

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089067.D
 Acq On : 16 Jul 2016 21:13
 Operator : UM/SJ
 Sample : H4018-16
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 01:17:35 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	56703	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	242265	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	93193	20.00	ng	-0.05
63) Phenanthrene-d10	11.19	188	139711	20.00	ng	-0.03
75) Chrysene-d12	13.82	240	112322	20.00	ng	-0.03
86) Perylene-d12	15.19	264	80895	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.27	112	408410	107.95	ng	-0.02
7) Phenol-d6	6.33	99	511856	104.70	ng	-0.02
23) Nitrobenzene-d5	7.23	82	279729	60.51	ng	-0.05
41) 2,4,6-Tribromophenol	10.50	330	68850	79.56	ng	-0.03
44) 2-Fluorobiphenyl	9.04	172	605326	102.60	ng	-0.03
78) Terphenyl-d14	12.78	244	349809	69.37	ng	-0.02

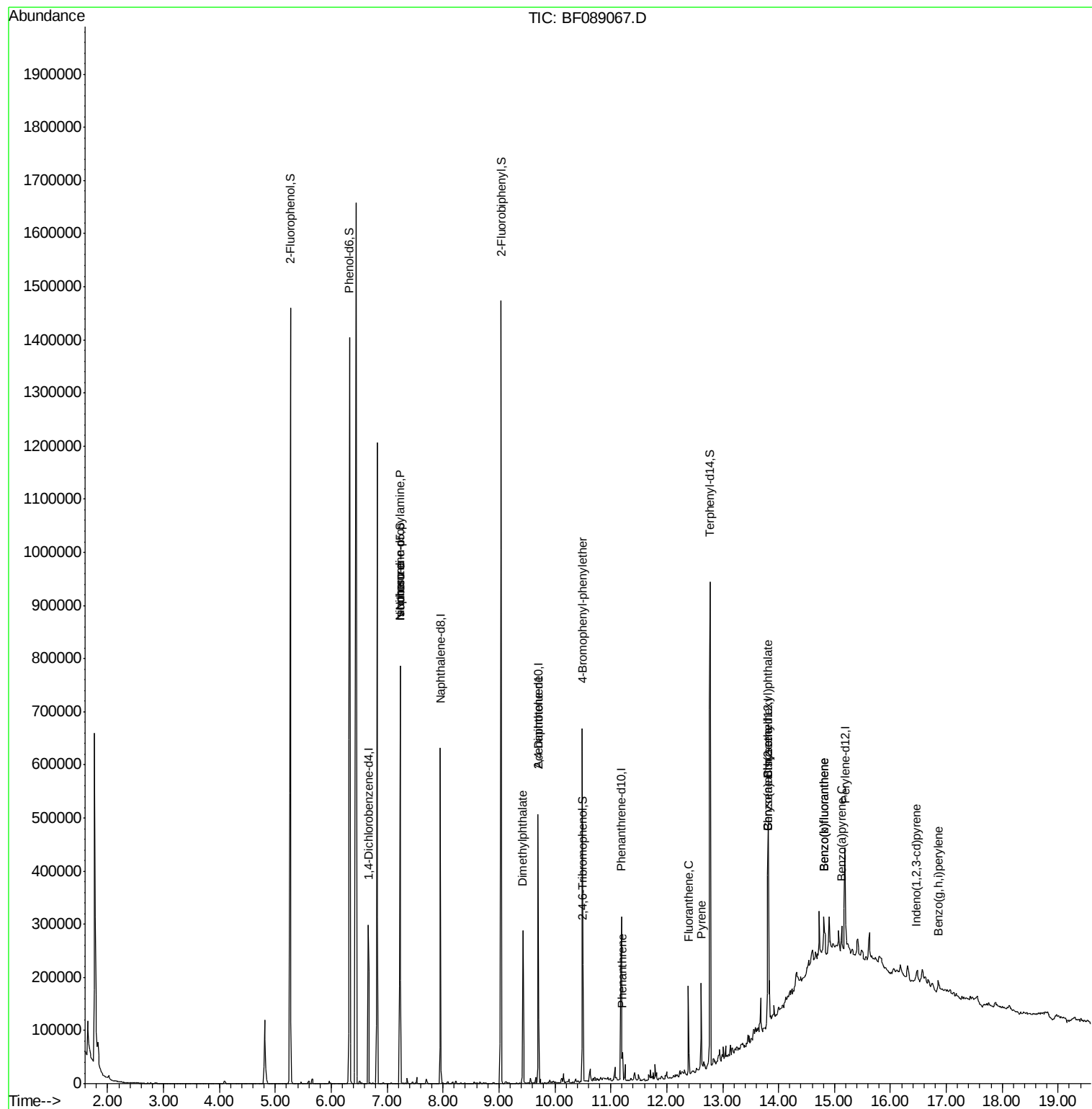
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	38363	11.68	ng	# 74
25) Isophorone	7.23	82	234631	27.40	ng	# 65
49) Dimethylphthalate	9.43	163	110965	16.71	ng	100
56) 2,4-Dinitrotoluene	9.70	165	11934	6.20	ng	# 36
66) 4-Bromophenyl-phenylether	10.49	248	5229	3.71	ng	# 1
70) Phenanthrene	11.21	178	26484	3.47	ng	98
74) Fluoranthene	12.39	202	59733	7.72	ng	99
77) Pyrene	12.62	202	61110	6.42	ng	99
80) Benzo(a)anthracene	13.81	228	31152	4.31	ng	94
82) Chrysene	13.81	228	31152	4.35	ng	99
83) Bis(2-ethylhexyl)phthalate	13.82	149	29869	6.16	ng	# 93
85) Indeno(1,2,3-cd)pyrene	16.47	276	11561	2.10	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	42928	8.46	ng	# 84
88) Benzo(k)fluoranthene	14.81	252	42928	9.72	ng	# 89
89) Benzo(a)pyrene	15.13	252	20221	4.71	ng	# 90
91) Benzo(g,h,i)perylene	16.86	276	14662	3.95	ng	# 88

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

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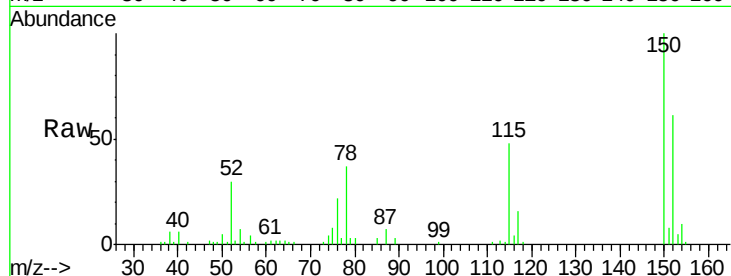


#1

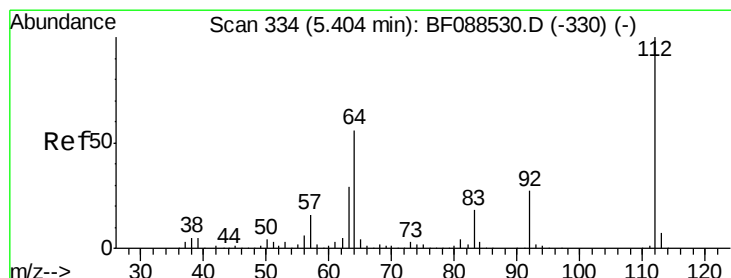
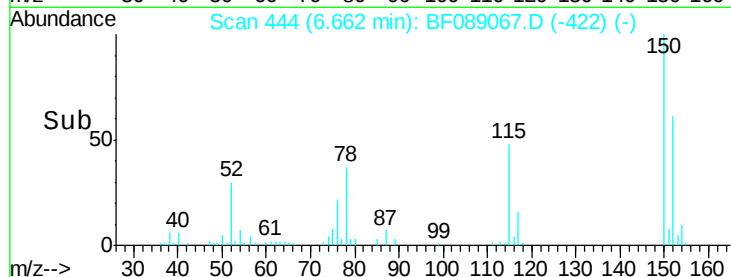
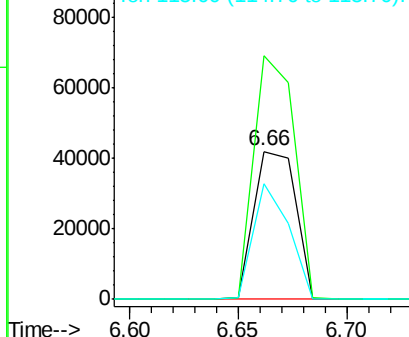
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.66 min Scan# 444
Delta R.T. -0.05 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 56703
Ion Ratio Lower Upper
152 100
150 164.3 123.8 185.6
115 78.1 39.6 59.4#



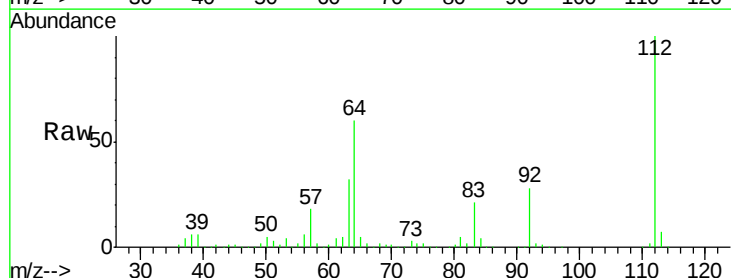
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



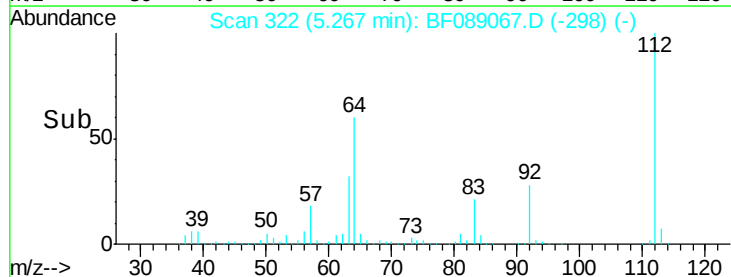
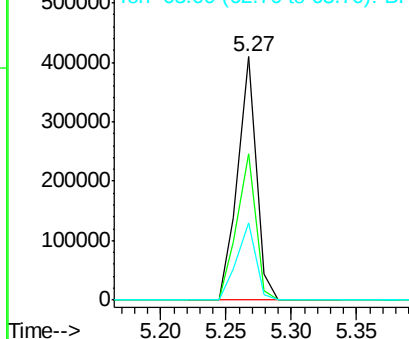
#5

2-Fluorophenol
Concen: 107.95 ng
RT: 5.27 min Scan# 322
Delta R.T. -0.02 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

Tgt Ion:112 Resp: 408410
Ion Ratio Lower Upper
112 100
64 59.9 42.2 63.2
63 31.8 21.8 32.8



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: 104.70 ng

RT: 6.33 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Instrument :

BNA_F

ClientSampleId :

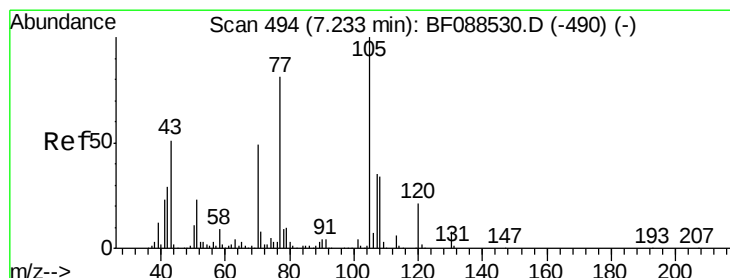
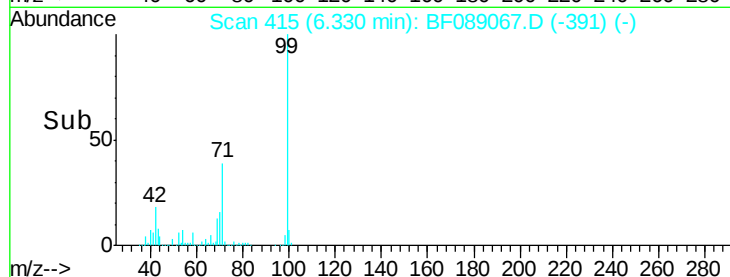
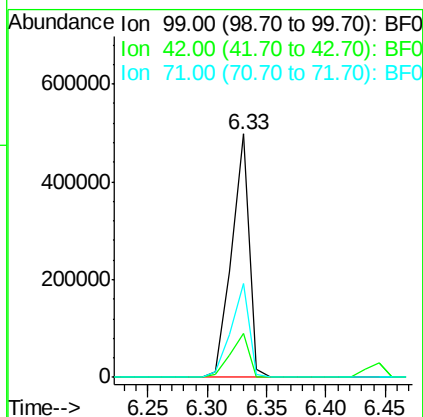
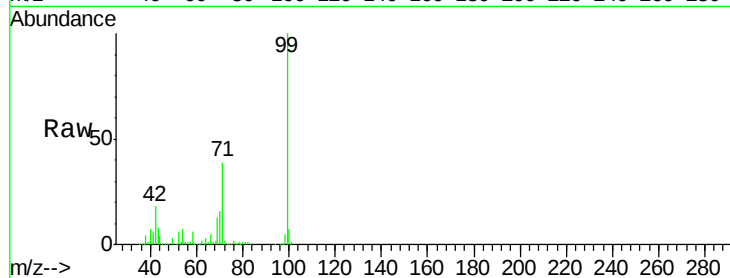
Tot Ion: 99 Resp: 511856

Ion Ratio Lower Upper

99 100

42 18.3 12.2 18.2#

71 38.6 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 11.68 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Tgt Ion: 70 Resp: 38363

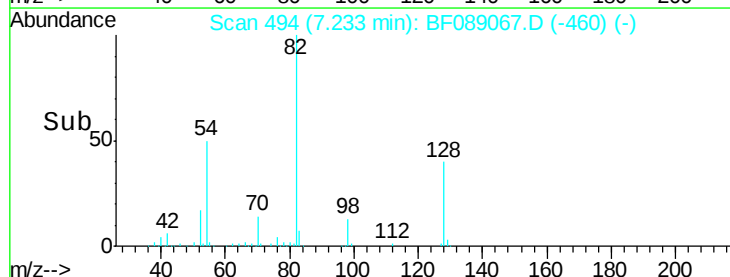
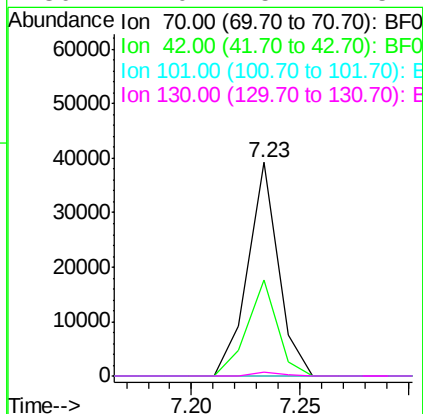
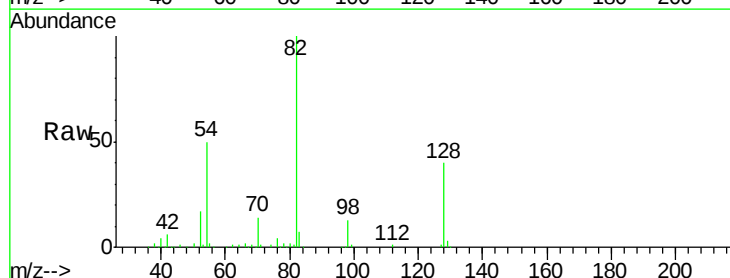
Ion Ratio Lower Upper

70 100

42 44.9 49.6 74.4#

101 0.0 7.1 10.7#

130 2.0 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 557

Delta R.T. -0.05 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 242265

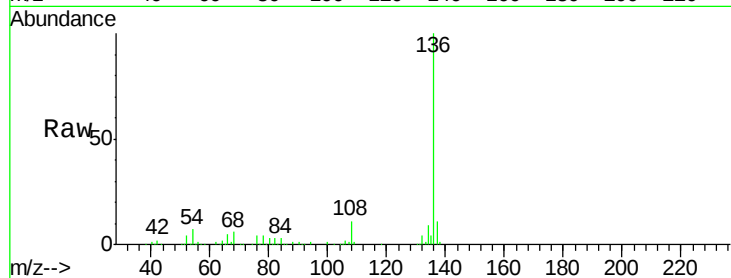
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 7.2 6.6 10.0

68 5.8 5.1 7.7

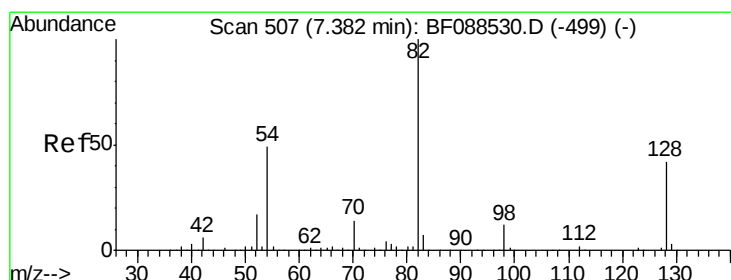
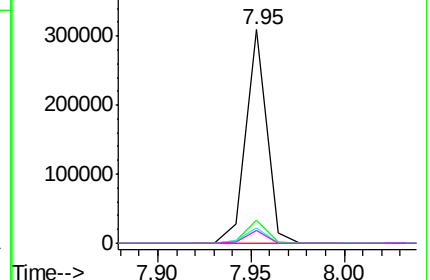
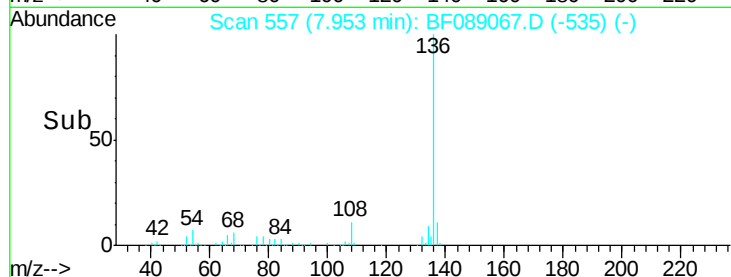


Abundance Ion 136.00 (135.70 to 136.70): E

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: 60.51 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

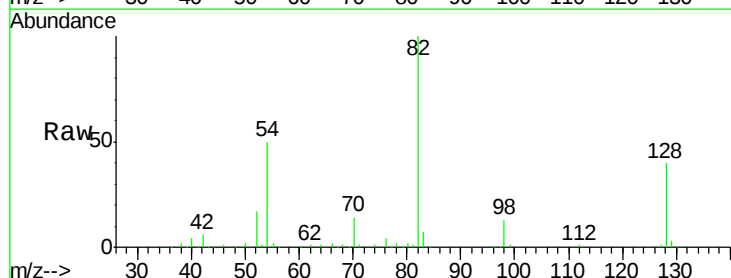
Tgt Ion: 82 Resp: 279729

Ion Ratio Lower Upper

82 100

128 39.6 35.9 53.9

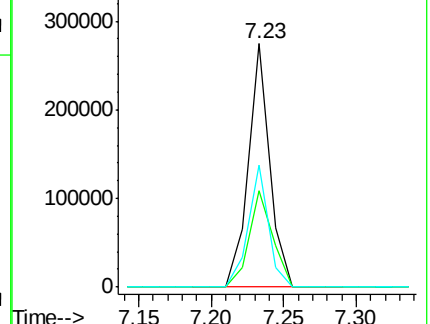
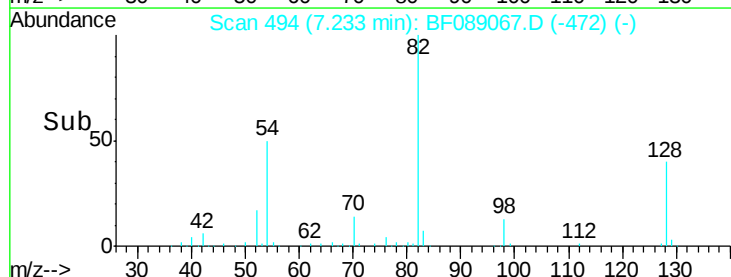
54 50.3 40.9 61.3

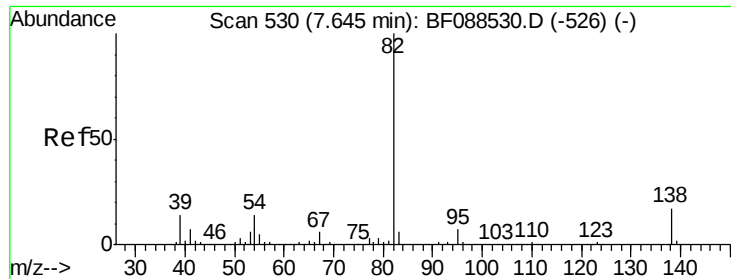


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 27.40 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.31 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Instrument :

BNA_F

ClientSampleId :

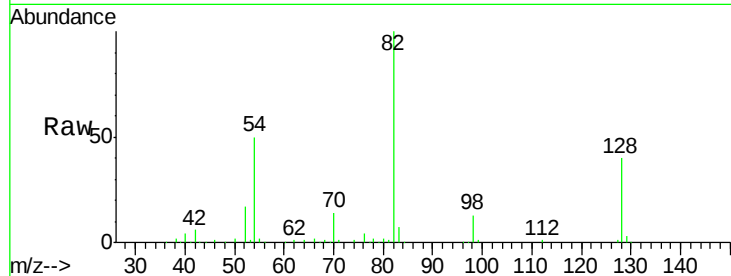
Tot Ion: 82 Resp: 234631

Ion Ratio Lower Upper

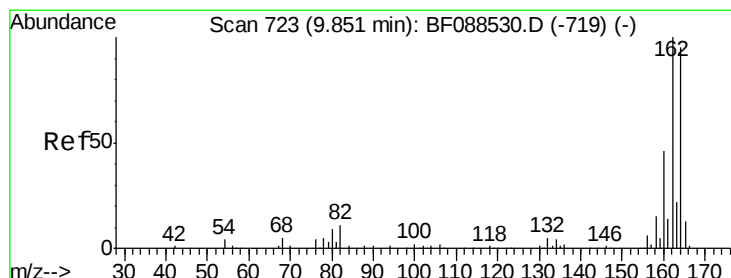
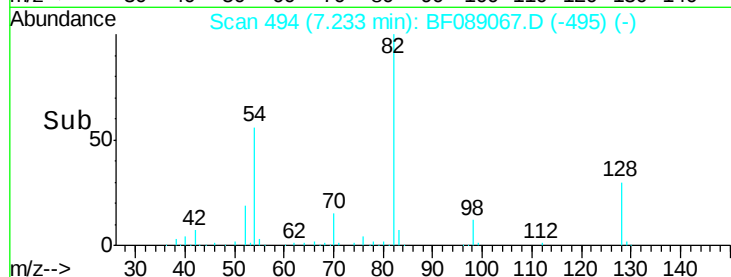
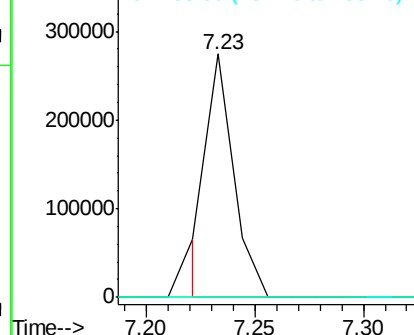
82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.05 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

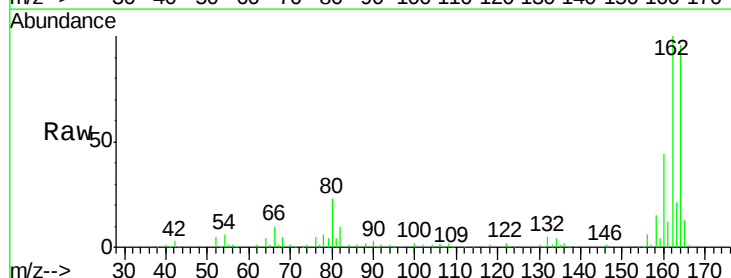
Tgt Ion:164 Resp: 93193

Ion Ratio Lower Upper

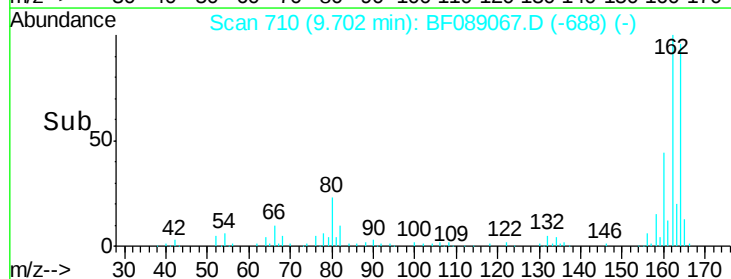
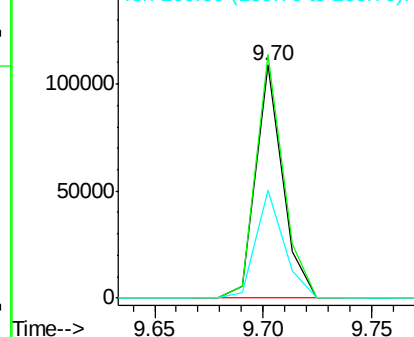
164 100

162 104.4 85.4 128.2

160 46.4 39.5 59.3



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

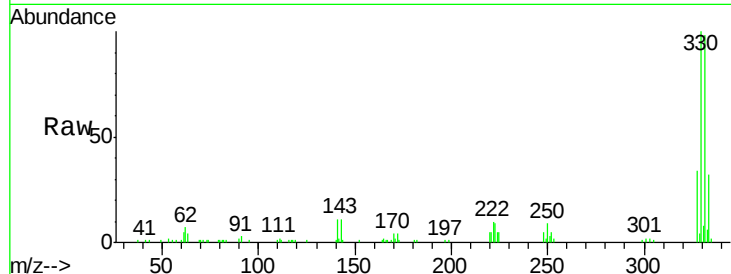




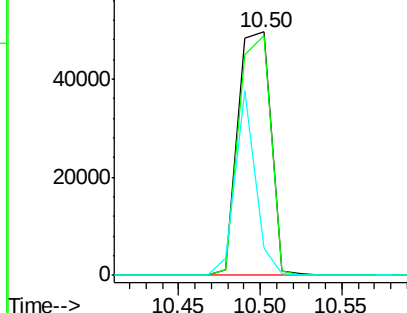
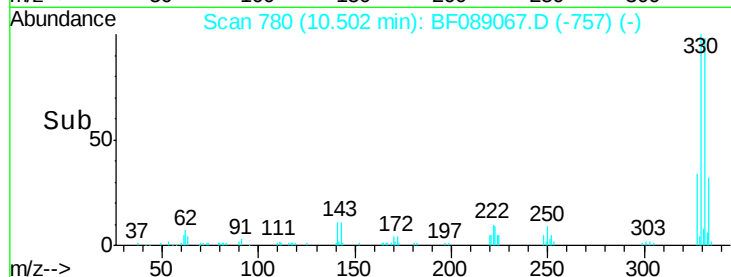
#41
 2,4,6-Tribromophenol
 Concen: 79.56 ng
 RT: 10.50 min Scan# 780
 Delta R.T. -0.03 min
 Lab File: BF089067.D
 Acq: 16 Jul 2016 21:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	0.0	0.0#
141	46.8	0.0	0.0#

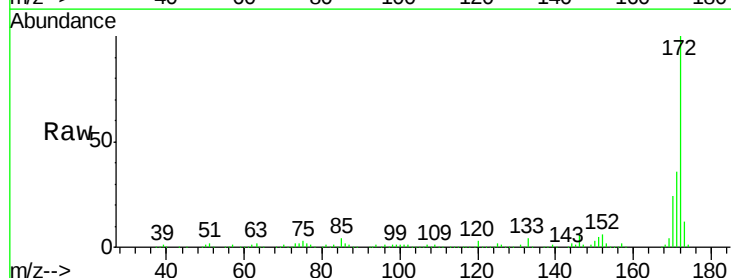


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

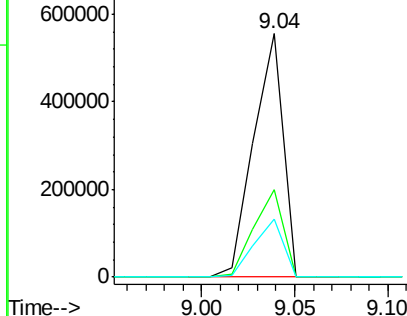
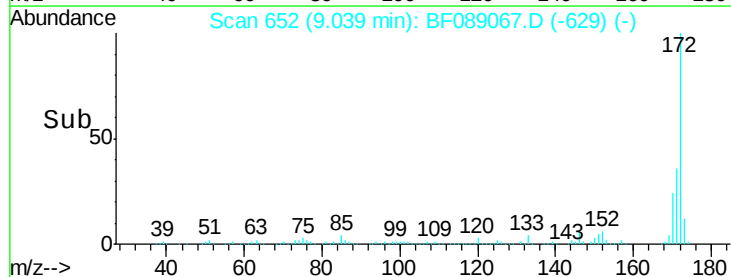


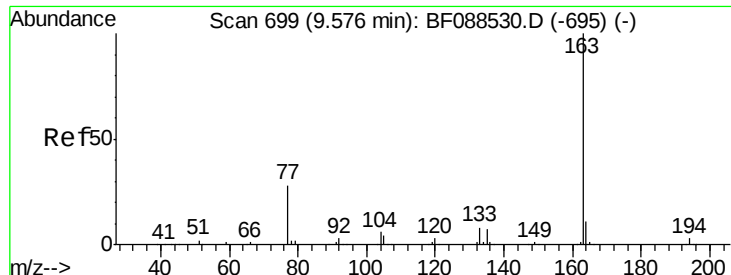
#44
 2-Fluorobiphenyl
 Concen: 102.60 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089067.D
 Acq: 16 Jul 2016 21:13

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	23.6	19.2	28.8



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

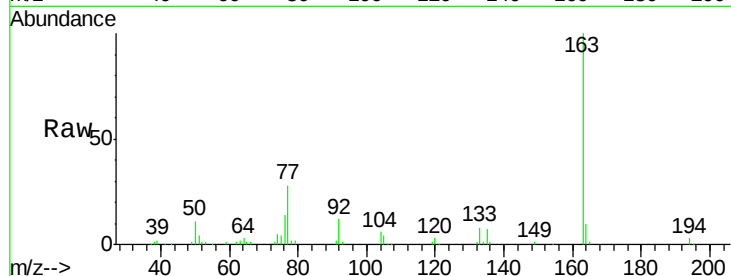




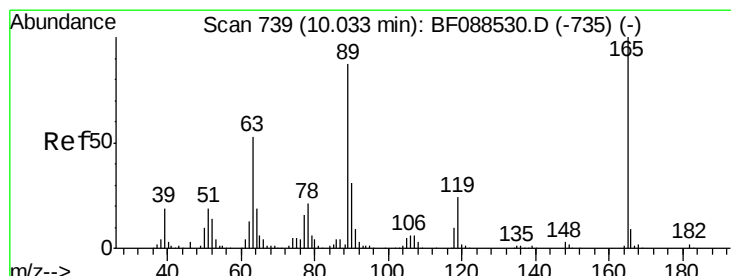
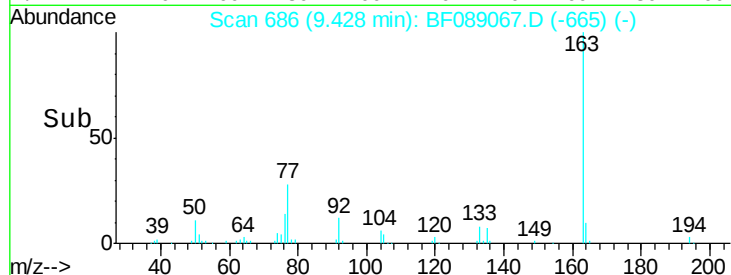
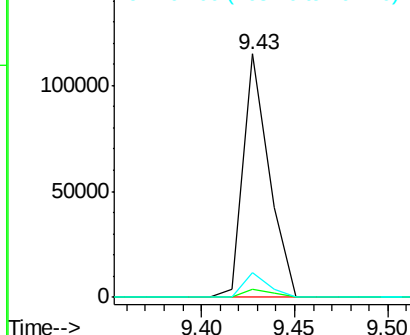
#49
Dimethylphthalate
Concen: 16.71 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.06 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 110965
Ion Ratio Lower Upper
163 100
194 3.1 2.8 4.2
164 10.4 8.3 12.5

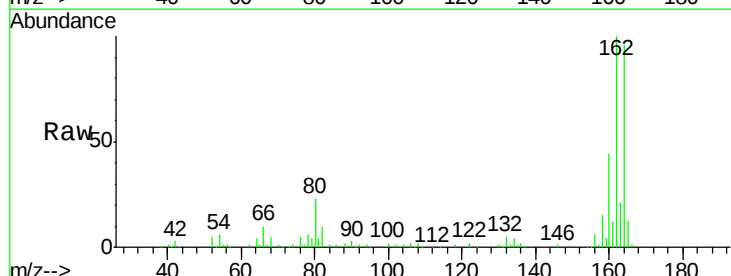


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

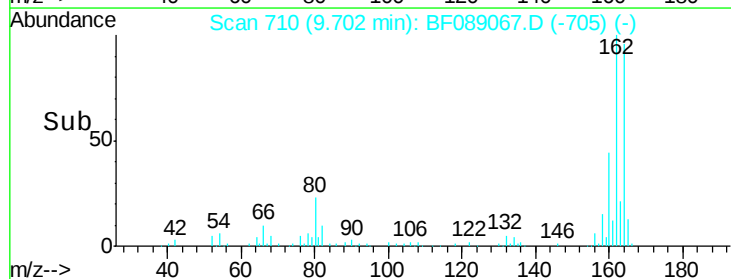
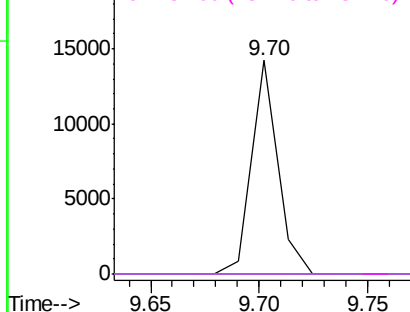


#56
2,4-Dinitrotoluene
Concen: 6.20 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.24 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

Tgt Ion:165 Resp: 11934
Ion Ratio Lower Upper
165 100
63 0.0 22.0 33.0#
89 0.0 41.1 61.7#
182 0.0 2.0 3.0#



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

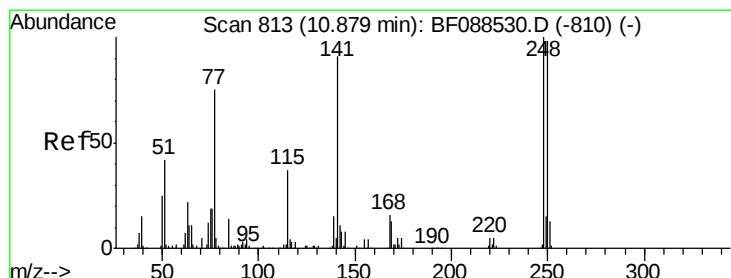
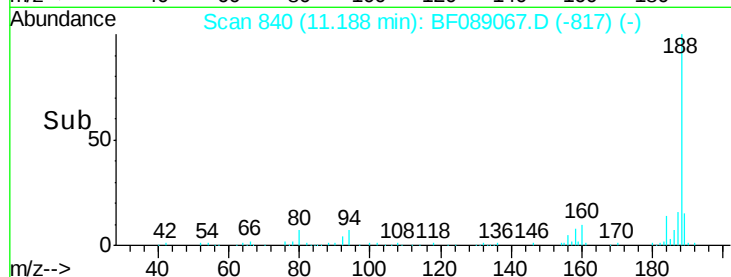
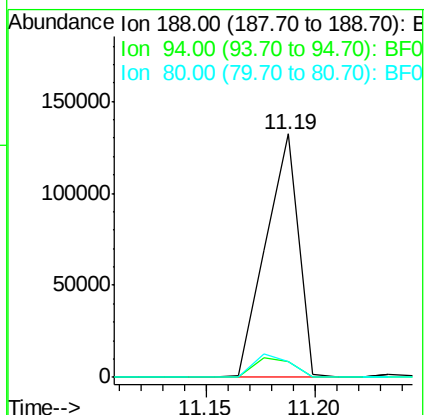
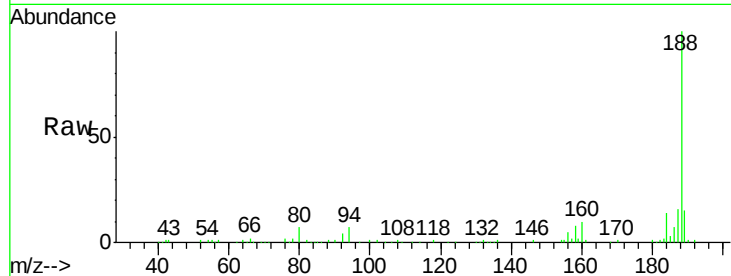




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.03 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

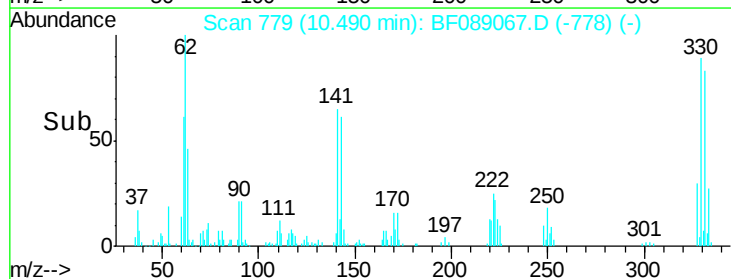
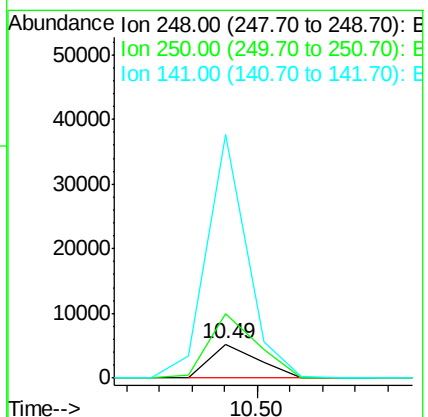
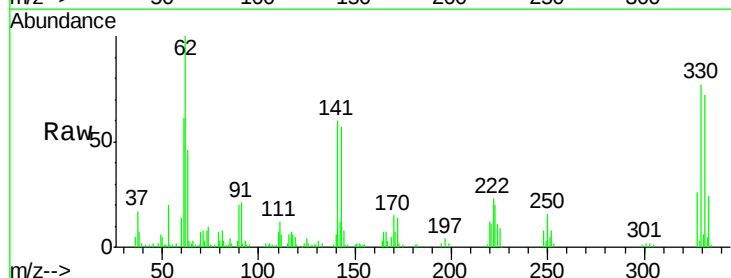
Instrument :
BNA_F
ClientSampleId :

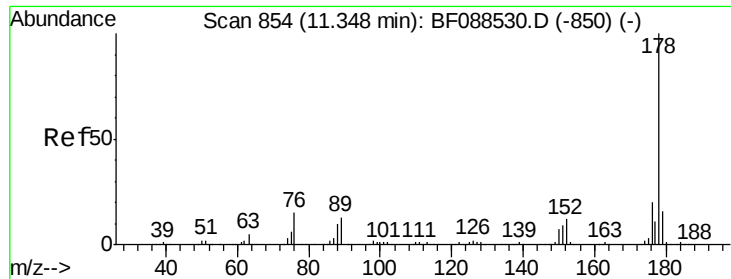
Tot Ion:188 Resp: 139711
Ion Ratio Lower Upper
188 100
94 6.7 9.0 13.6#
80 6.7 10.0 15.0#



#66
4-Bromophenyl-phenylether
Concen: 3.71 ng
RT: 10.49 min Scan# 779
Delta R.T. -0.29 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

Tgt Ion:248 Resp: 5229
Ion Ratio Lower Upper
248 100
250 189.2 77.1 115.7#
141 719.4 50.6 76.0#





#70

Phenanthrene

Concen: 3.47 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.03 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Instrument :

BNA_F

ClientSampleId :

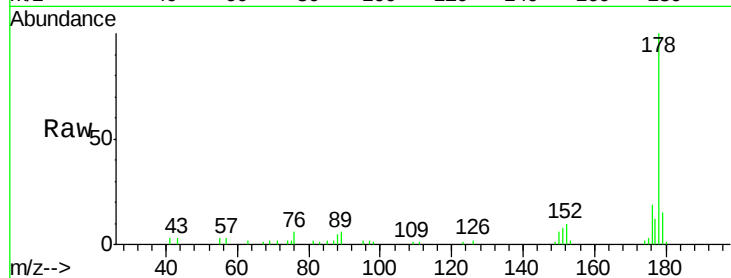
Tot Ion:178 Resp: 26484

Ion Ratio Lower Upper

178 100

176 19.1 15.8 23.6

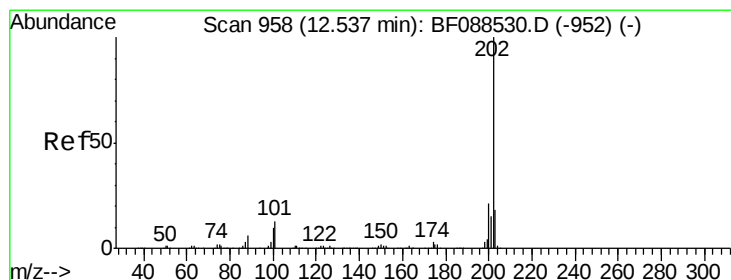
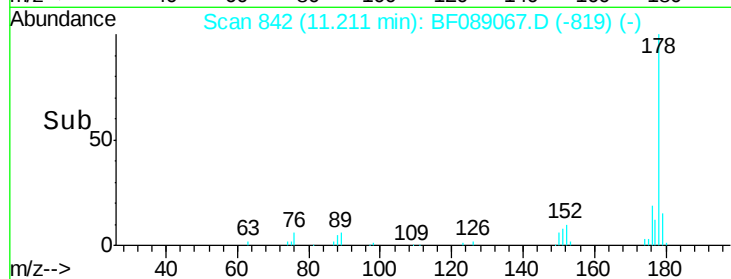
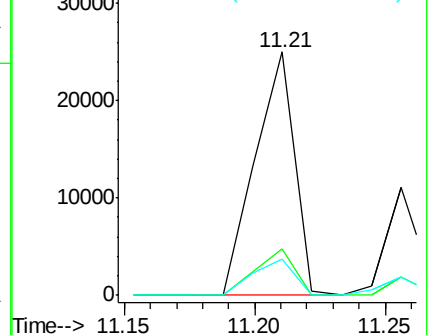
179 15.0 13.0 19.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 7.72 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

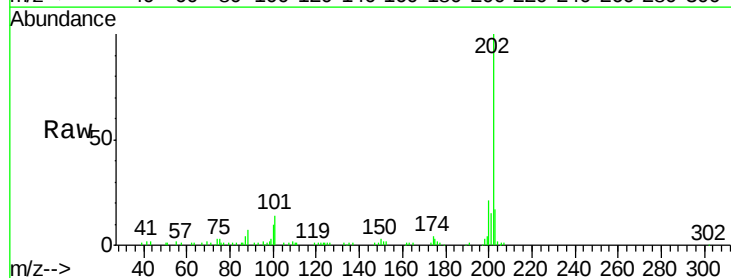
Tgt Ion:202 Resp: 59733

Ion Ratio Lower Upper

202 100

101 13.6 0.0 33.1

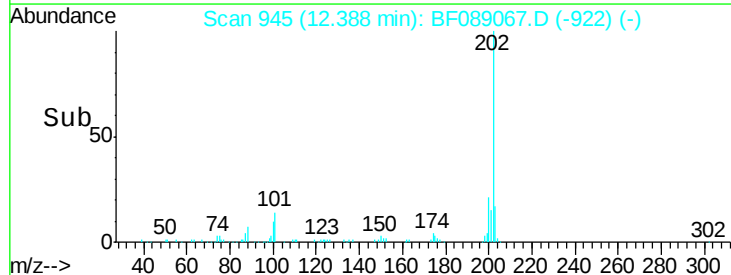
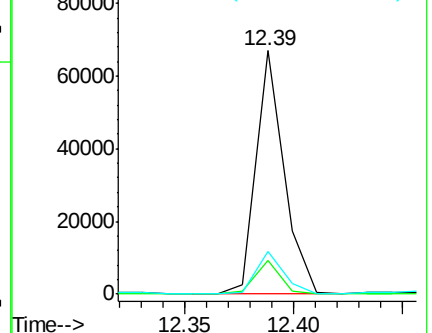
203 17.5 0.0 38.1

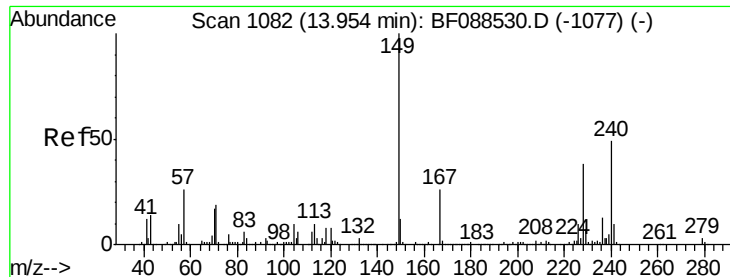


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Instrument :

BNA_F

ClientSampleId :

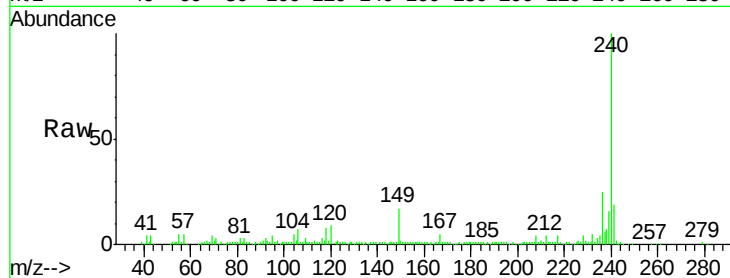
Tot Ion:240 Resp: 112322

Ion Ratio Lower Upper

240 100

120 8.8 6.8 10.2

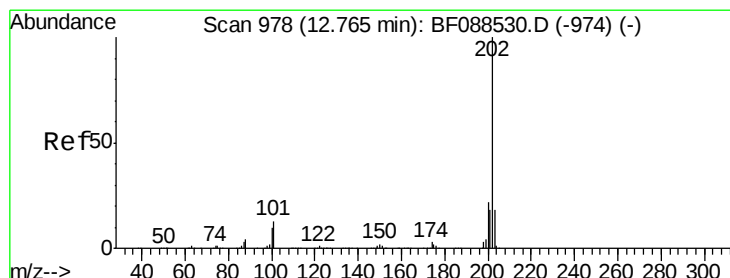
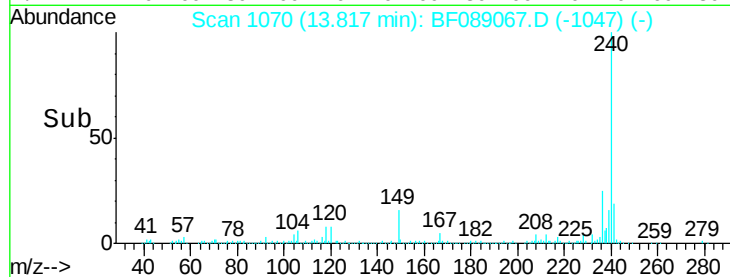
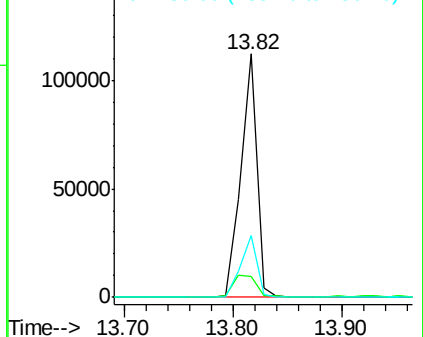
236 25.5 20.2 30.2



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: 6.42 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

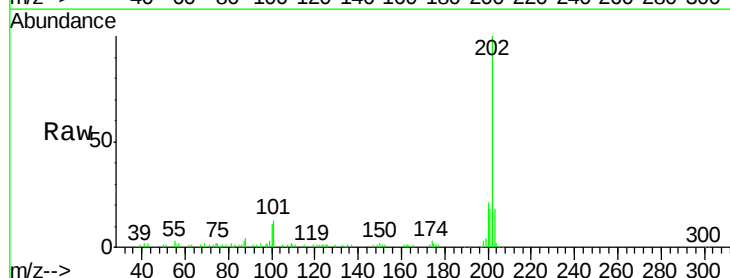
Tgt Ion:202 Resp: 61110

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

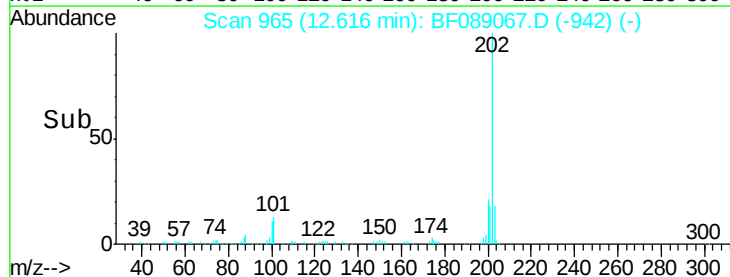
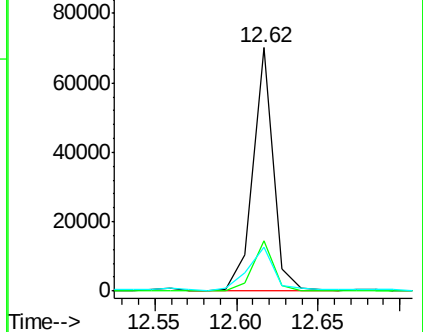
203 18.1 14.5 21.7

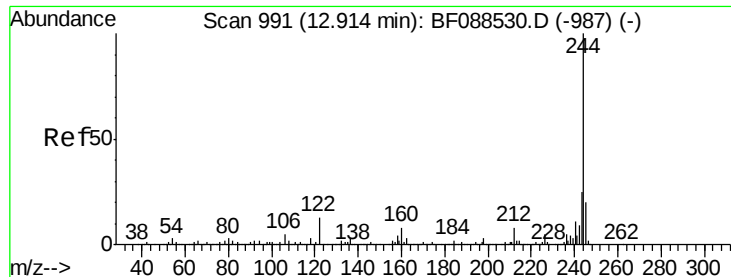


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 69.37 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.02 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Instrument :
BNA_F
ClientSampleId :

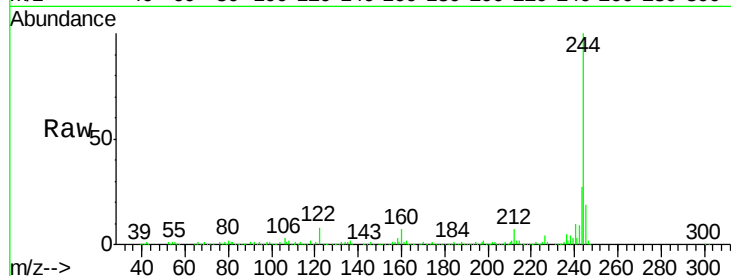
Tot Ion:244 Resp: 349809

Ion Ratio Lower Upper

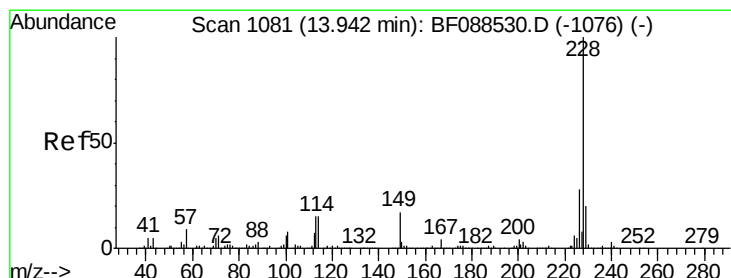
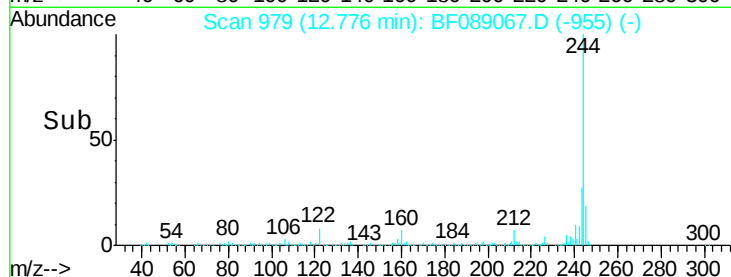
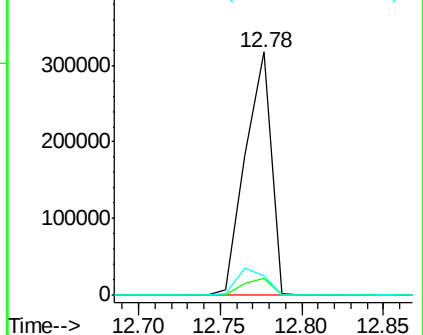
244 100

212 7.2 6.0 9.0

122 8.1 11.2 16.8#



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: 4.31 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

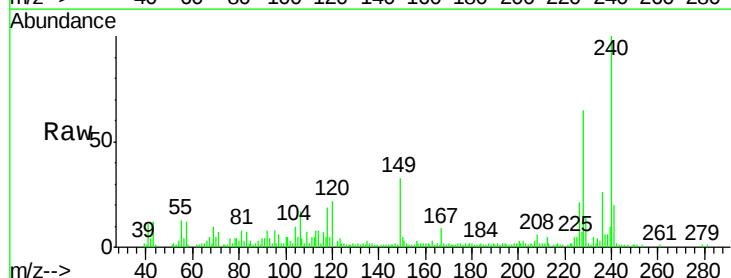
Tgt Ion:228 Resp: 31152

Ion Ratio Lower Upper

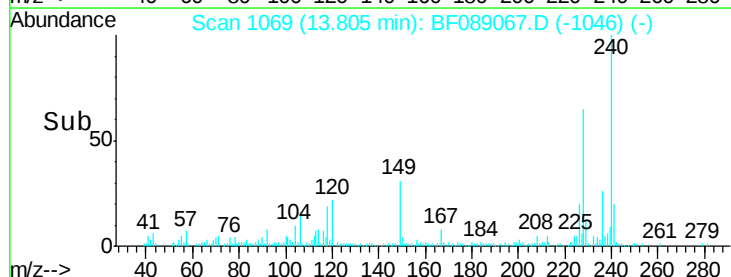
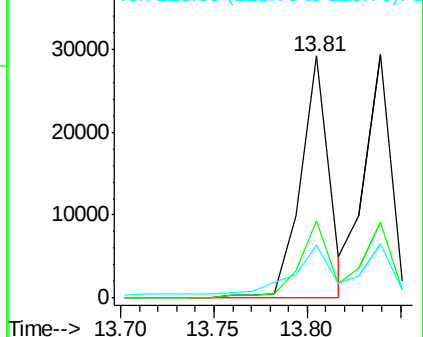
228 100

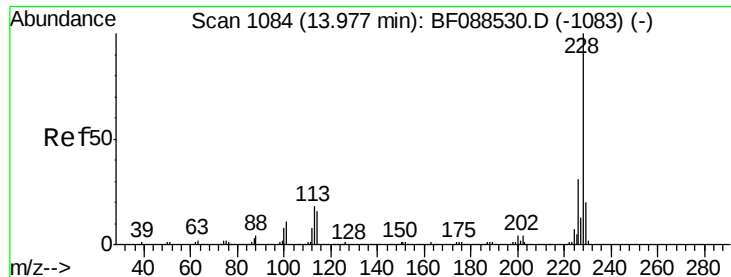
226 31.8 22.3 33.5

229 21.7 16.0 24.0



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: 4.35 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.07 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Instrument :

BNA_F

ClientSampleId :

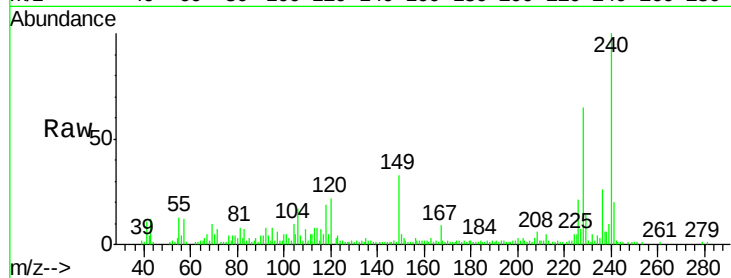
Tot Ion:228 Resp: 31152

Ion Ratio Lower Upper

228 100

226 31.8 25.4 38.2

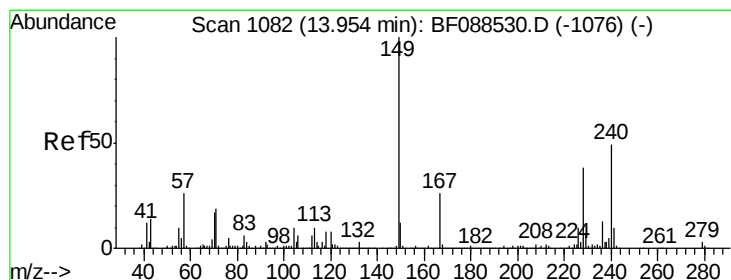
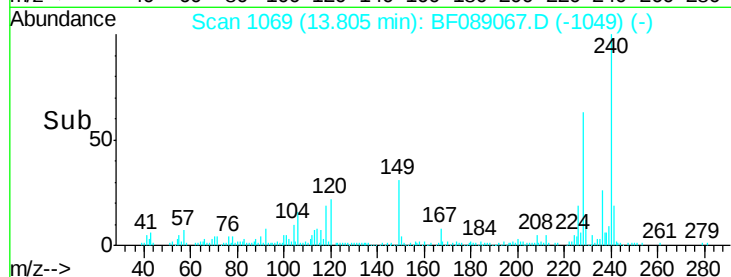
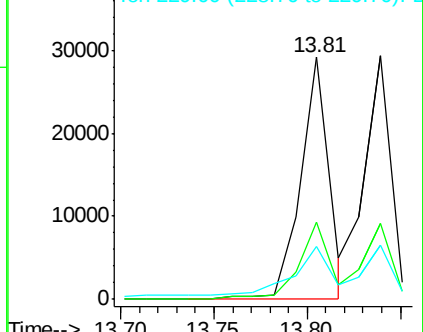
229 21.7 16.3 24.5



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 6.16 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

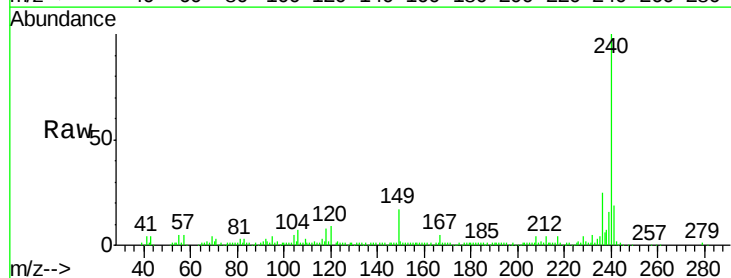
Tgt Ion:149 Resp: 29869

Ion Ratio Lower Upper

149 100

167 29.2 20.5 30.7

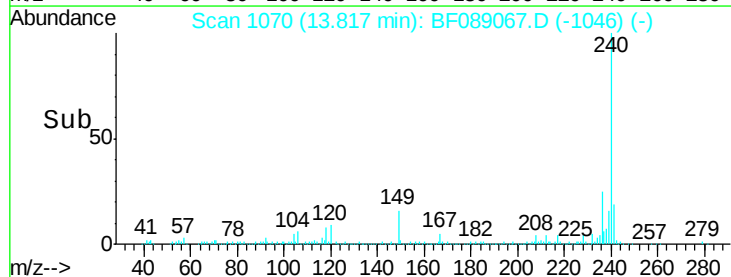
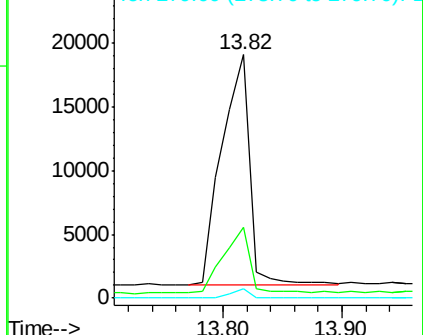
279 4.1 2.0 3.0#

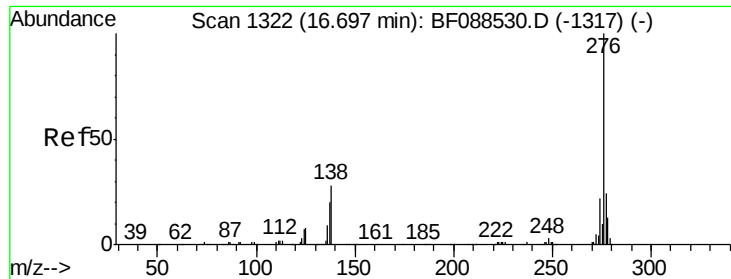


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

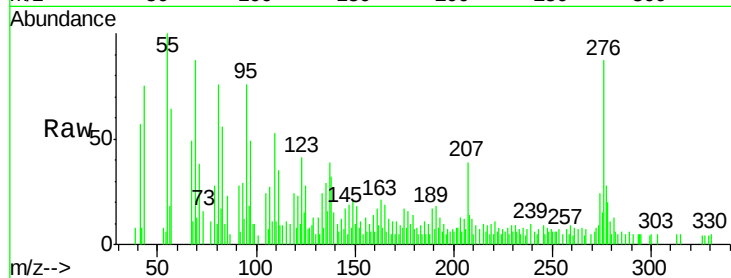




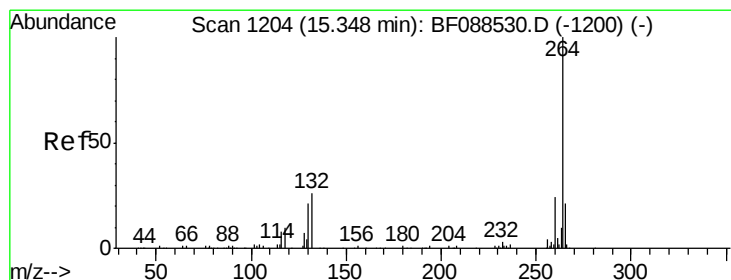
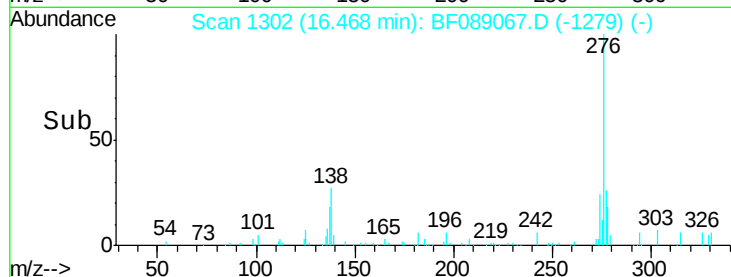
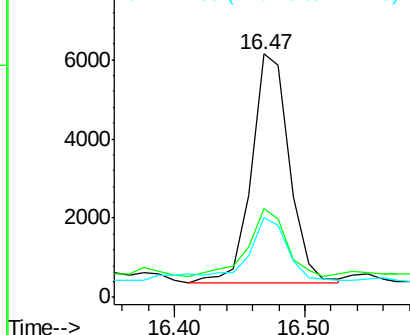
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.10 ng
RT: 16.47 min Scan# 1302
Delta R.T. -0.03 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 11561
Ion Ratio Lower Upper
276 100
138 30.3 0.0 0.0#
277 31.5 0.0 0.0#

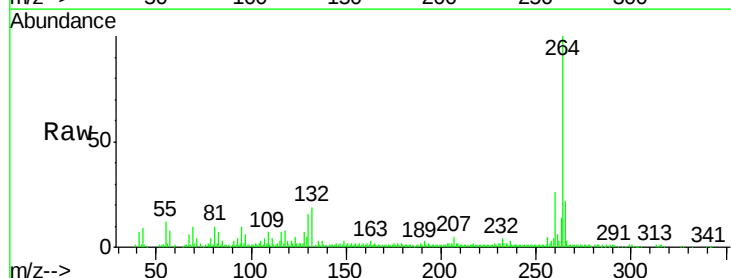


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

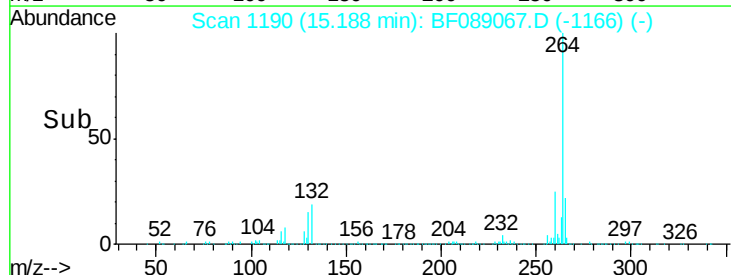
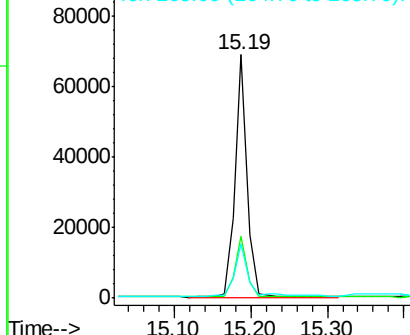


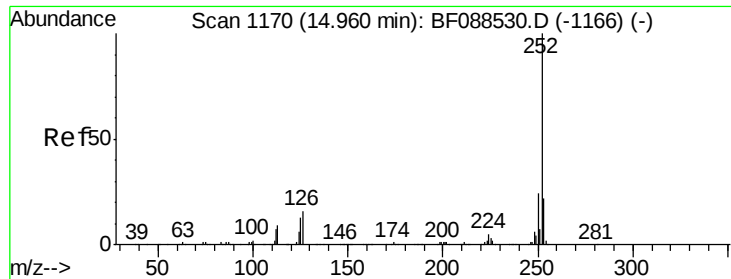
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.19 min Scan# 1190
Delta R.T. -0.02 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

Tgt Ion:264 Resp: 80895
Ion Ratio Lower Upper
264 100
260 25.5 19.2 28.8
265 22.3 16.9 25.3



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

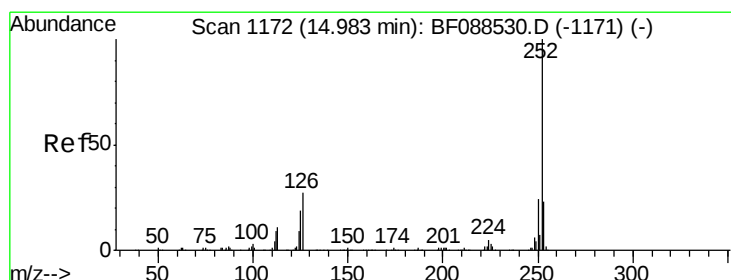
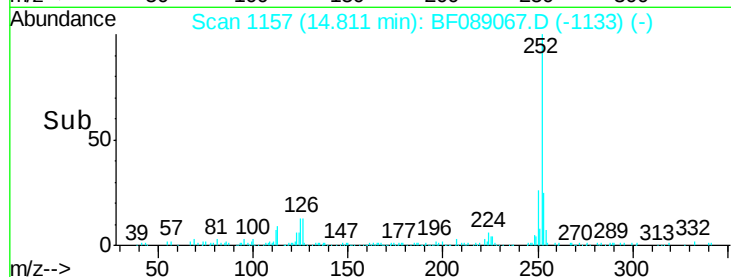
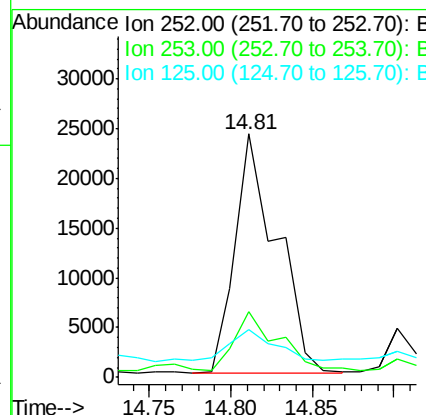
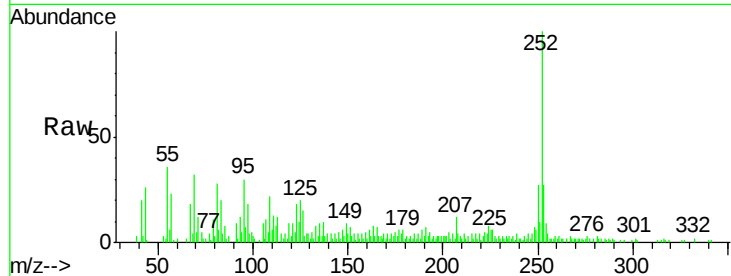




#87
Benzo(b)fluoranthene
Concen: 8.46 ng
RT: 14.81 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

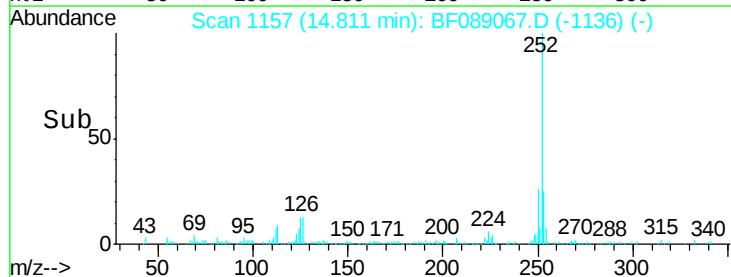
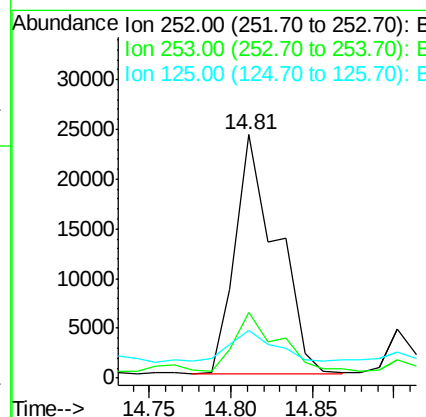
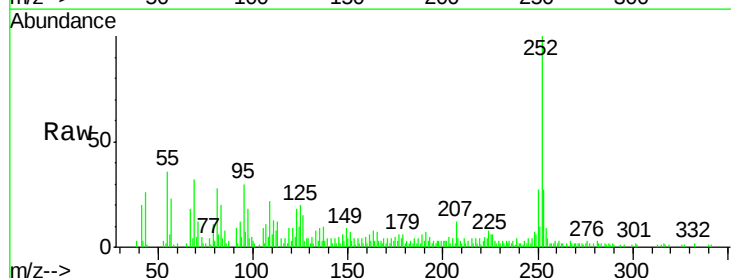
Instrument :
BNA_F
ClientSampleId :

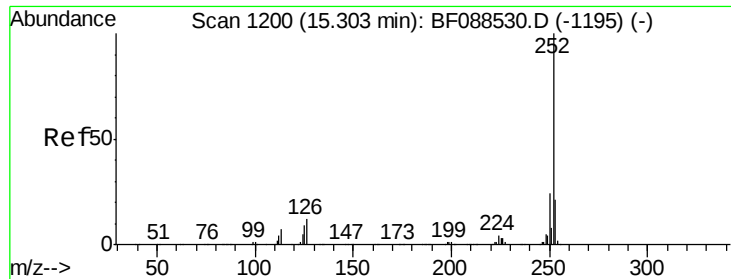
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.8	17.4	26.2#
125	19.5	7.1	10.7#



#88
Benzo(k)fluoranthene
Concen: 9.72 ng
RT: 14.81 min Scan# 1157
Delta R.T. -0.06 min
Lab File: BF089067.D
Acq: 16 Jul 2016 21:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.8	18.0	27.0
125	19.5	11.2	16.8#





#89

Benzo(a)pyrene

Concen: 4.71 ng

RT: 15.13 min Scan# 1185

Delta R.T. -0.03 min

Lab File: BF089067.D

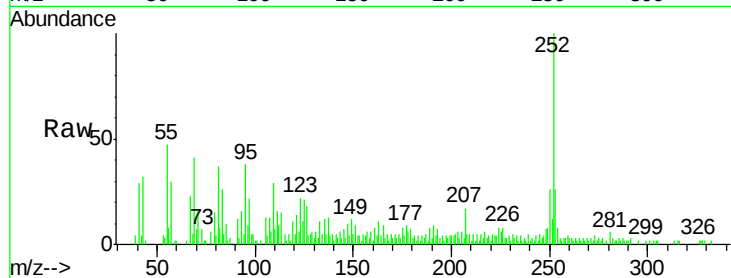
Acq: 16 Jul 2016 21:13

Instrument :

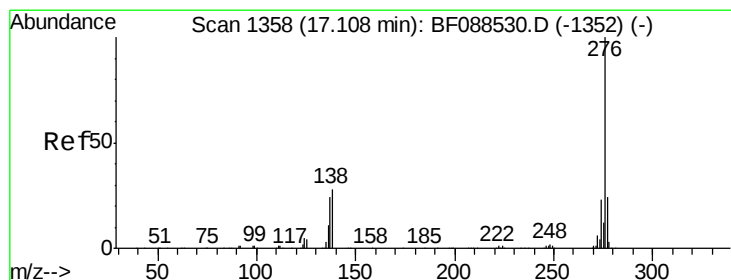
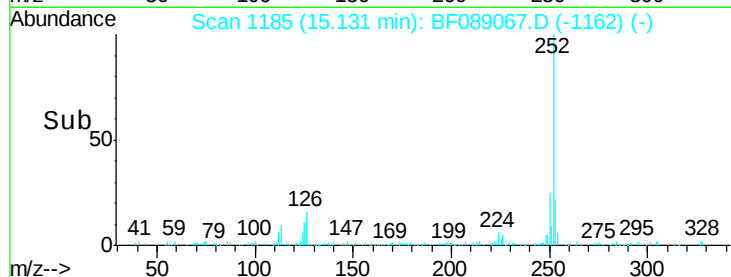
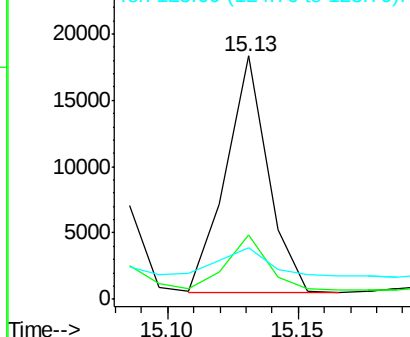
BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	20221
Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.9	26.9
125	21.2	12.5	18.7#



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



#91

Benzo(g,h,i)perylene

Concen: 3.95 ng

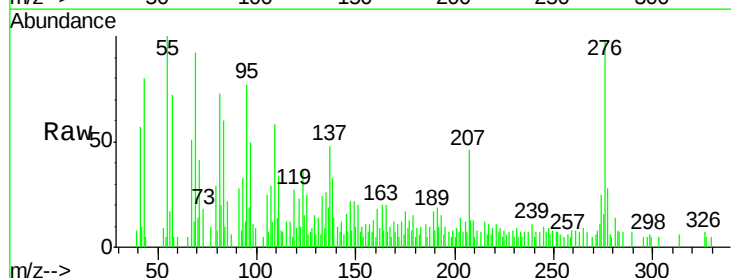
RT: 16.86 min Scan# 1336

Delta R.T. -0.03 min

Lab File: BF089067.D

Acq: 16 Jul 2016 21:13

Tgt Ion:	276	Resp:	14662
Ion	Ratio	Lower	Upper
276	100		
277	28.4	18.9	28.3#
138	33.9	21.4	32.2#



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

