

Data Path : Z:\HPCHEM1\BNA F\Data\BF051216\
 Data File : BF086967.D
 Acq On : 13 May 2016 11:04
 Operator : UM/SJ
 Sample : H2916-04RE
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 13 14:47:14 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 16:04:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng	-6.69
21) Naphthalene-d8	7.91	136	568307	20.00	ng	-0.08
38) Acenaphthene-d10	9.66	164	230163	20.00	ng	-0.08
63) Phenanthrene-d10	11.13	188	345641	20.00	ng	-0.08
75) Chrysene-d12	13.76	240	326670	20.00	ng	-0.08
86) Perylene-d12	15.12	264	258306	20.00	ng	-0.09

System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	271976	0.00	ng	-0.08
7) Phenol-d6	6.28	99	406503	0.00	ng	-0.08
23) Nitrobenzene-d5	7.19	82	250003	22.09	ng	-0.08
41) 2,4,6-Tribromophenol	10.44	330	143730	58.99	ng	-0.08
44) 2-Fluorobiphenyl	8.98	172	518415	37.85	ng	-0.08
78) Terphenyl-d14	12.72	244	732025	47.54	ng	-0.08

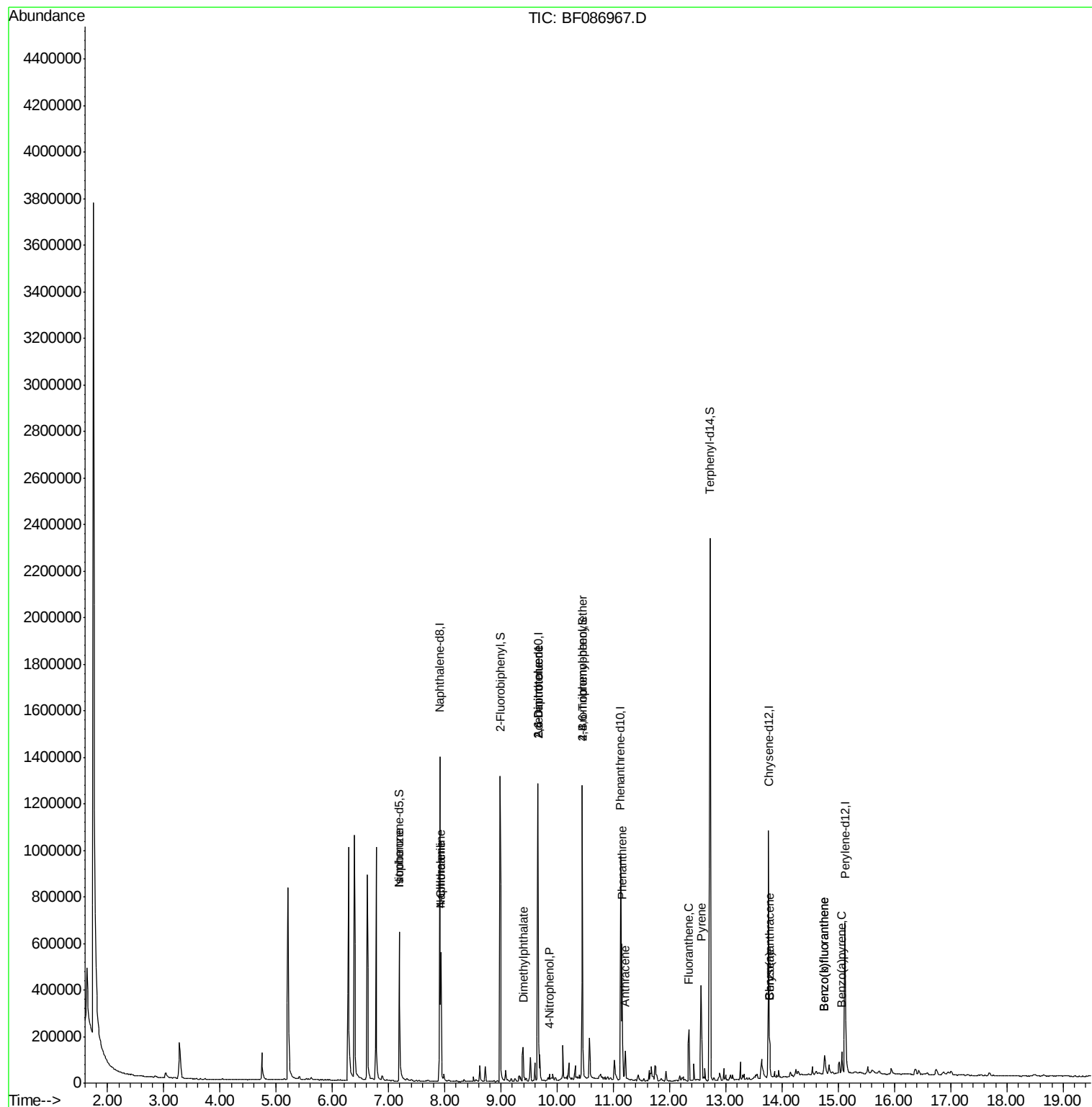
Target Compounds						Qvalue
25) Isophorone	7.19	82	242089	11.53	ng	# 68
31) Naphthalene	7.93	128	219015	7.69	ng	99
33) 4-Chloroaniline	7.93	127	27135	2.45	ng	# 34
49) Dimethylphthalate	9.39	163	64861	3.69	ng	99
50) 2,6-Dinitrotoluene	9.66	165	29493	7.98	ng	# 20
55) 4-Nitrophenol	9.86	139	1352	5.05	ng	# 14
56) 2,4-Dinitrotoluene	9.66	165	29493	6.45	ng	# 16
66) 4-Bromophenyl-phenylether	10.44	248	8941	2.55	ng	# 1
70) Phenanthrene	11.15	178	209702	11.37	ng	99
71) Anthracene	11.21	178	57275	3.04	ng	98
74) Fluoranthene	12.34	202	121524	6.41	ng	91
77) Pvrene	12.56	202	171058	6.84	ng	99
80) Benzo(a)anthracene	13.78	228	43406	2.37	ng	95
82) Chrysene	13.78	228	43406	2.33	ng	98
87) Benzo(b)fluoranthene	14.75	252	57014	3.40	ng	98
88) Benzo(k)fluoranthene	14.75	252	57014	4.15	ng	98
89) Benzo(a)pvrene	15.06	252	45838	3.17	ng	# 96

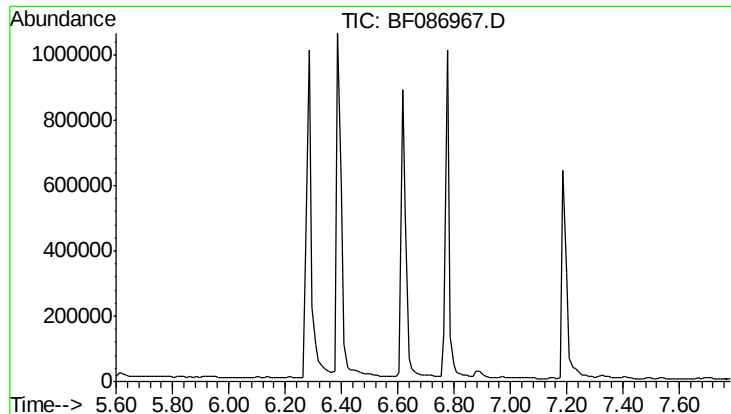
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.00 ng

Expected RT: 6.69 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Instrument :

BNA_F

ClientSampleId :

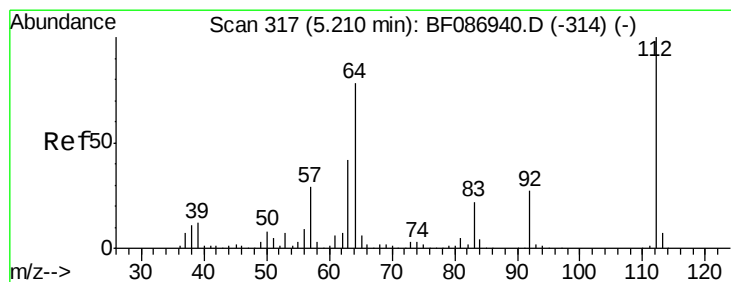
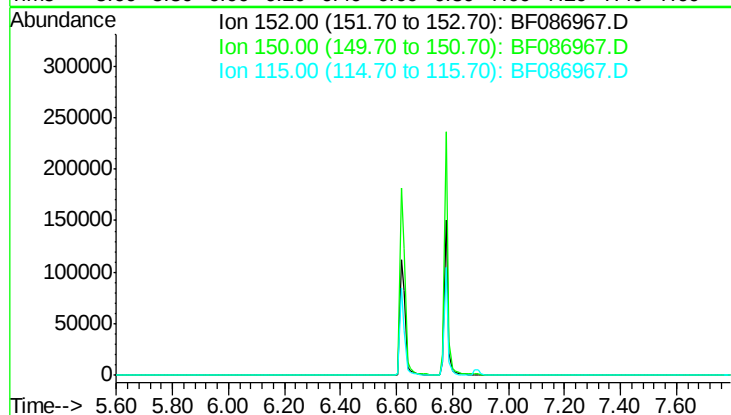
Tot Ion: 152

Sig Exp Ratio

152 100

150 157.2

115 64.4



#5

2-Fluorophenol

Concen: 0.00 ng

RT: 5.21 min Scan# 317

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

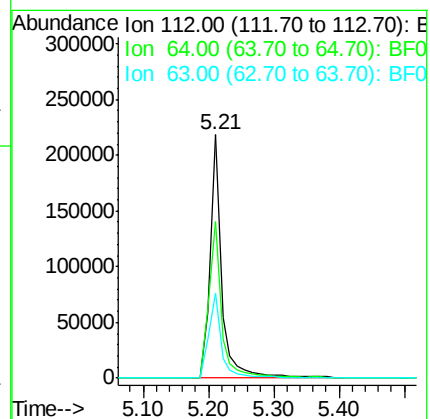
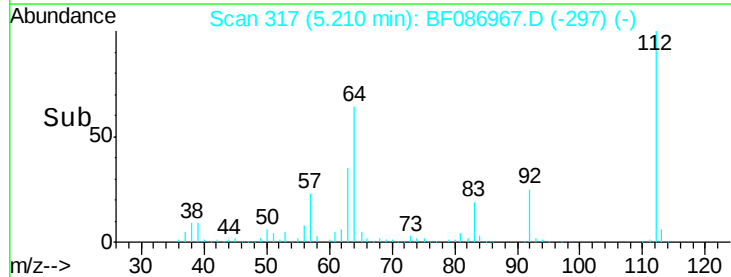
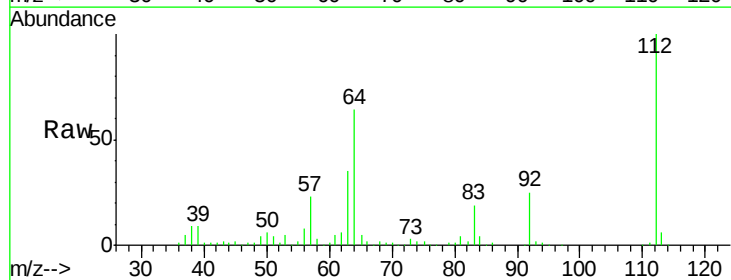
Tgt Ion:112 Resp: 271976

Ion Ratio Lower Upper

112 100

64 64.3 52.1 78.1

63 34.8 25.7 38.5





#7

Phenol-d6

Concen: 0.00 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

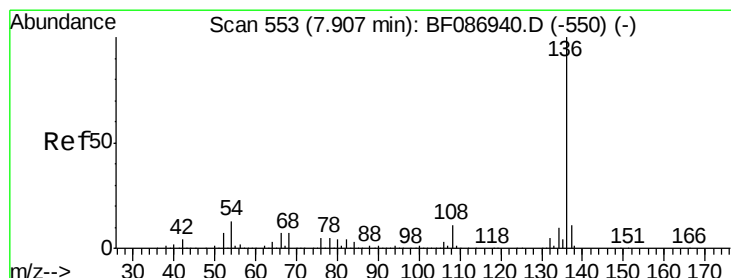
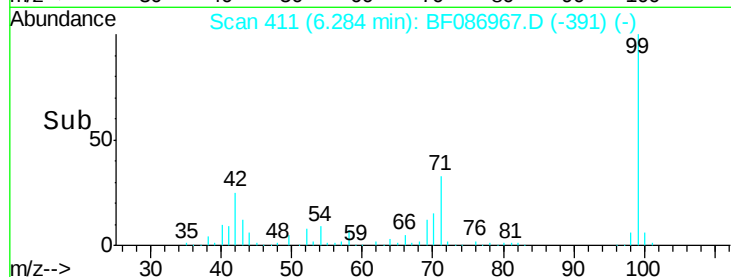
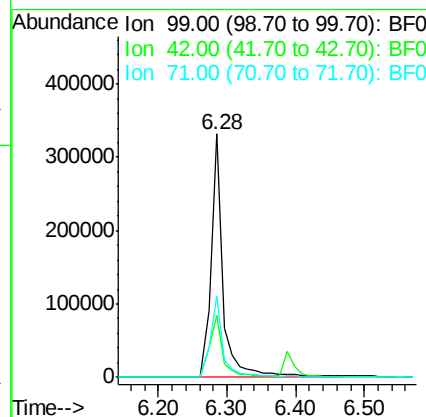
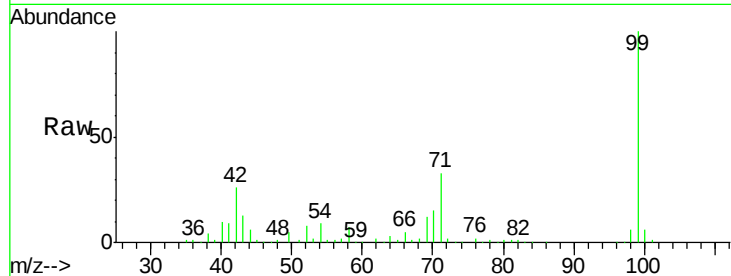
Instrument :

BNA_F

ClientSampled :

Tot Ion: 99 Resp: 406503

Ion	Ratio	Lower	Upper
99	100		
42	25.6	13.6	20.4#
71	33.2	24.6	36.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

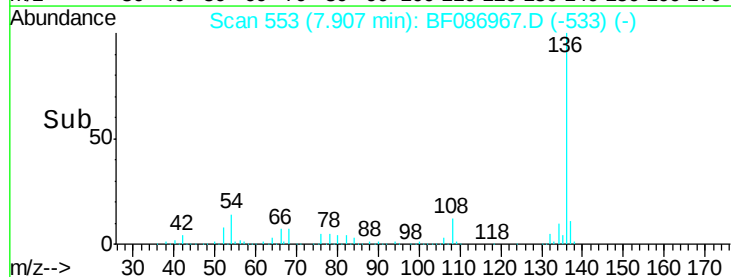
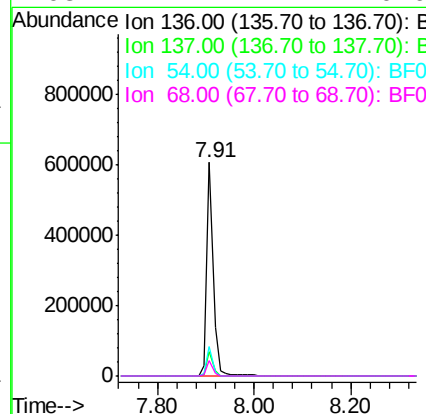
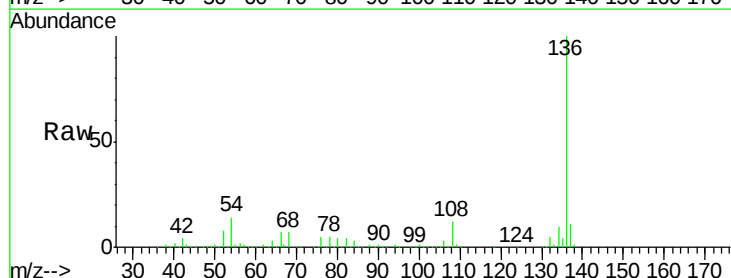
Delta R.T. -0.08 min

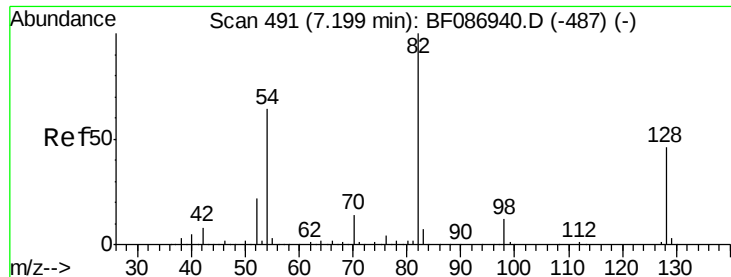
Lab File: BF086967.D

Acq: 13 May 2016 11:04

Tgt Ion: 136 Resp: 568307

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.8	13.2
54	13.8	5.0	7.4#
68	7.2	4.4	6.6#

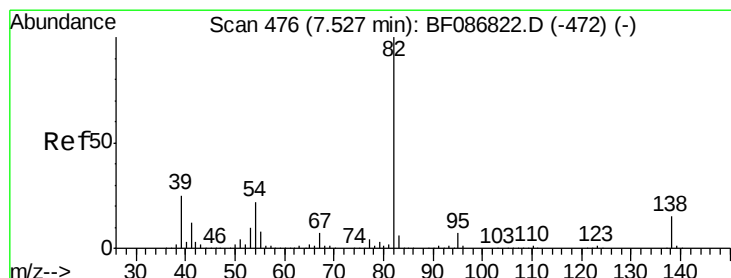
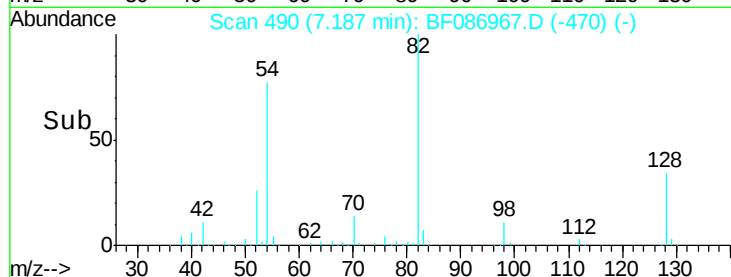
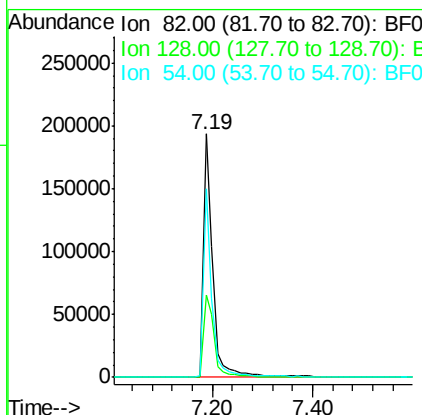
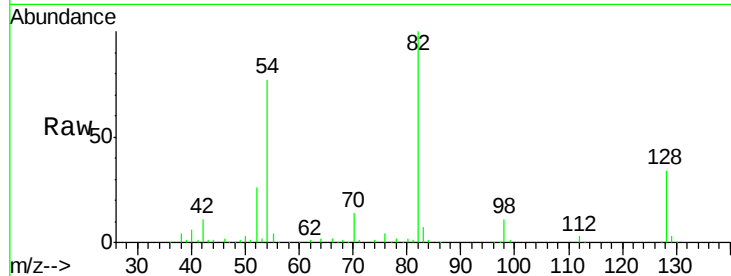




#23
Nitrobenzene-d5
Concen: 22.09 ng
RT: 7.19 min Scan# 490
Delta R.T. -0.08 min
Lab File: BF086967.D
Acq: 13 May 2016 11:04

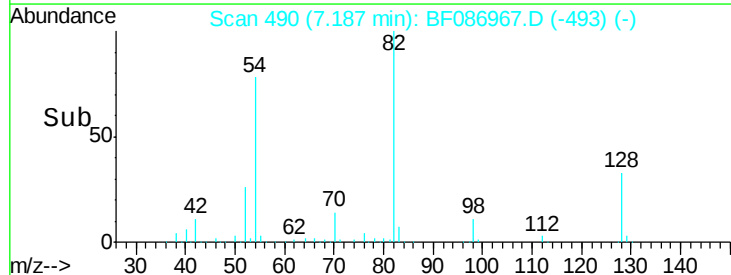
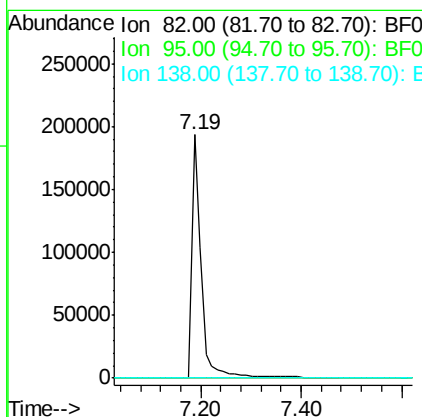
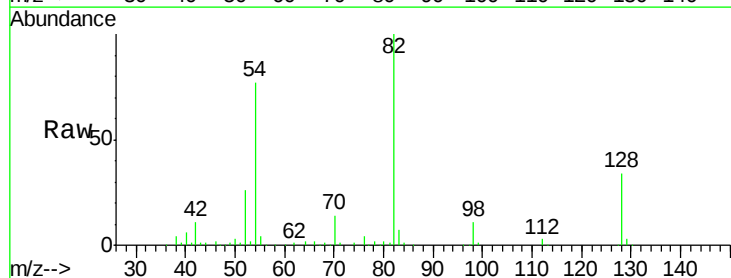
Instrument :
BNA_F
ClientSampleId :

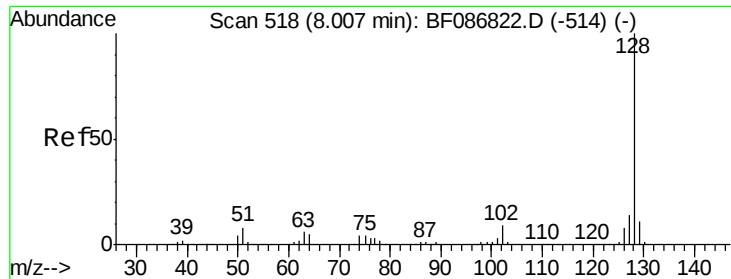
Tot Ion: 82 Resp: 250003
Ion Ratio Lower Upper
82 100
128 33.6 40.6 61.0#
54 77.4 38.1 57.1#



#25
Isophorone
Concen: 11.53 ng
RT: 7.19 min Scan# 490
Delta R.T. -0.34 min
Lab File: BF086967.D
Acq: 13 May 2016 11:04

Tgt Ion: 82 Resp: 242089
Ion Ratio Lower Upper
82 100
95 0.0 5.1 7.7#
138 0.0 12.4 18.6#

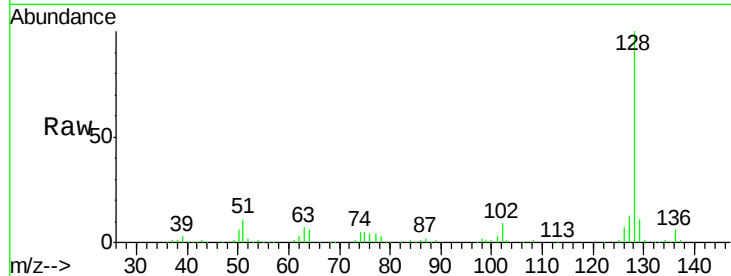




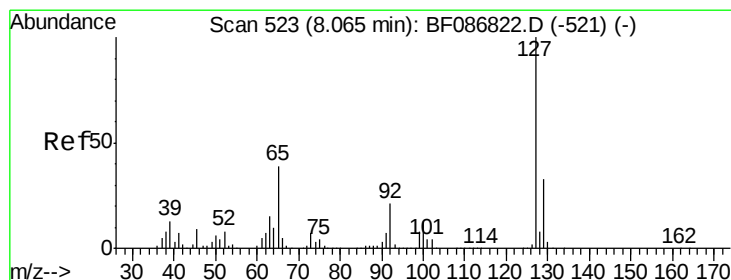
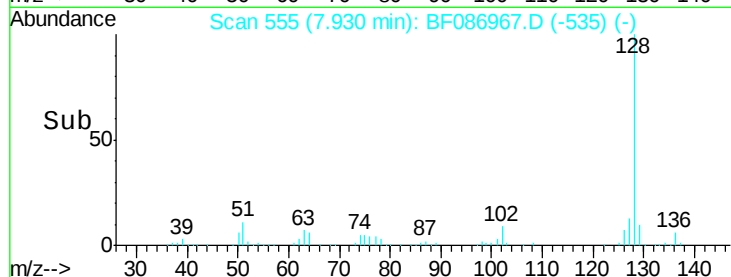
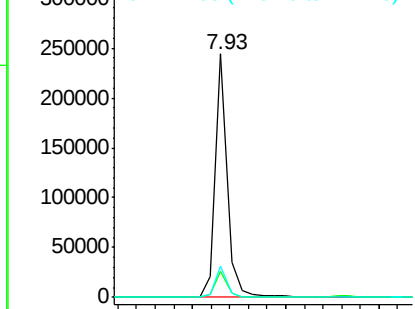
#31
Naphthalene
Concen: 7.69 ng
RT: 7.93 min Scan# 555
Delta R.T. -0.08 min
Lab File: BF086967.D
Acq: 13 May 2016 11:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 219015
Ion Ratio Lower Upper
128 100
129 10.6 8.6 13.0
127 12.6 10.8 16.2

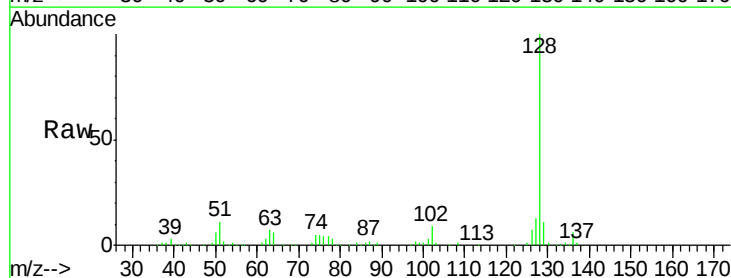


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

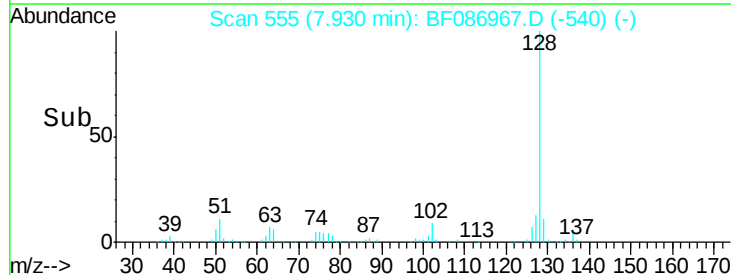
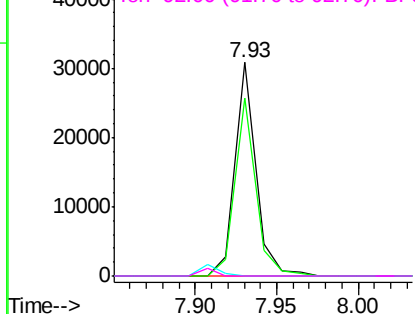


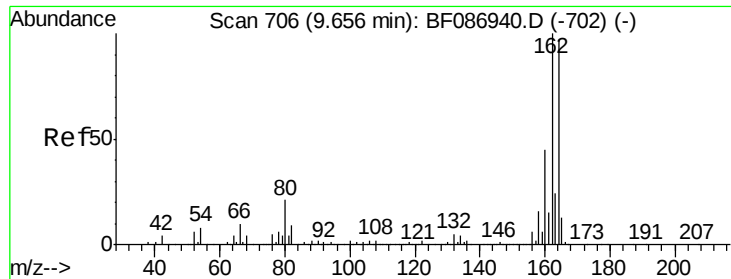
#33
4-Chloroaniline
Concen: 2.45 ng
RT: 7.93 min Scan# 555
Delta R.T. -0.13 min
Lab File: BF086967.D
Acq: 13 May 2016 11:04

Tgt Ion:127 Resp: 27135
Ion Ratio Lower Upper
127 100
129 83.6 26.2 39.4#
65 0.0 23.0 34.4#
92 0.0 15.1 22.7#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Instrument :

BNA_F

ClientSampleId :

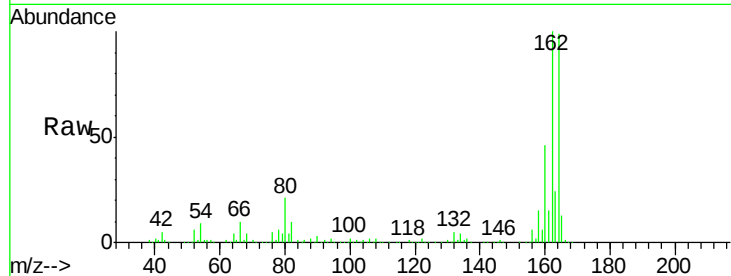
Tot Ion:164 Resp: 230163

Ion Ratio Lower Upper

164 100

162 101.5 82.8 124.2

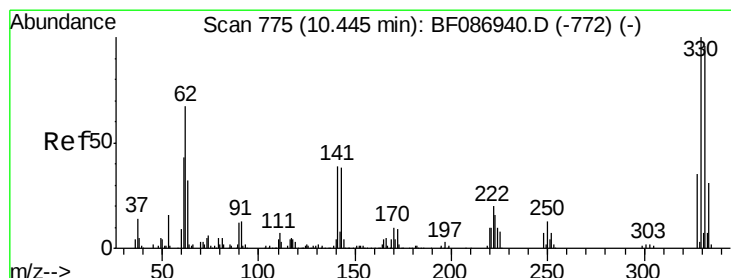
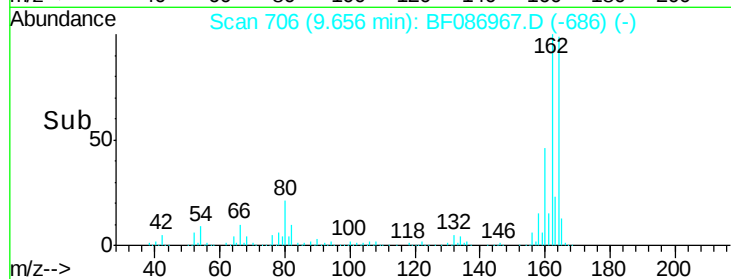
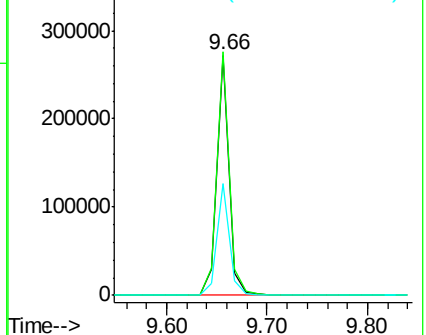
160 46.7 36.9 55.3



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: 58.99 ng

RT: 10.44 min Scan# 775

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

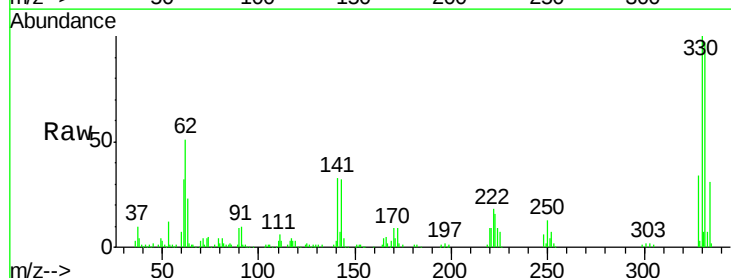
Tgt Ion:330 Resp: 143730

Ion Ratio Lower Upper

330 100

332 96.5 79.0 118.4

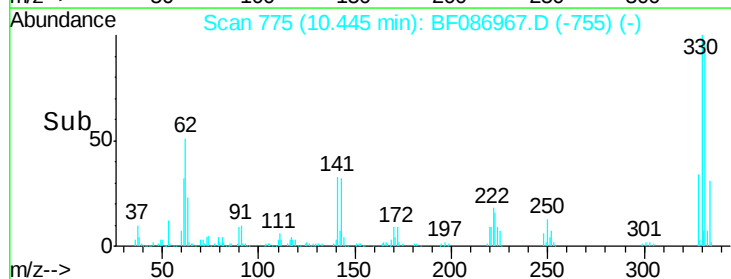
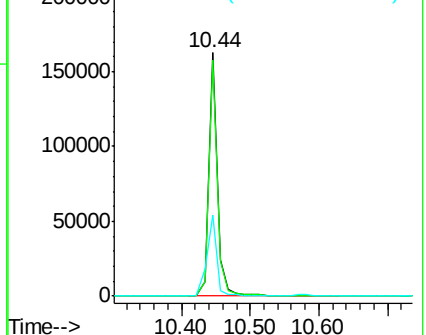
141 38.2 31.2 46.8

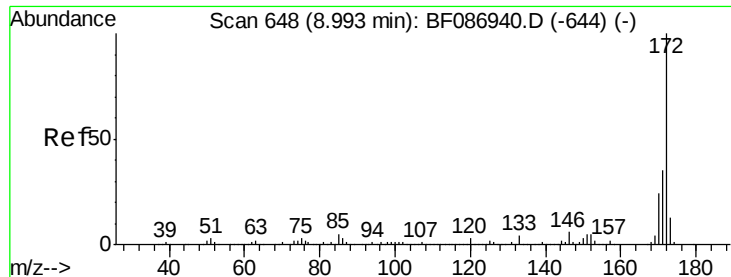


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

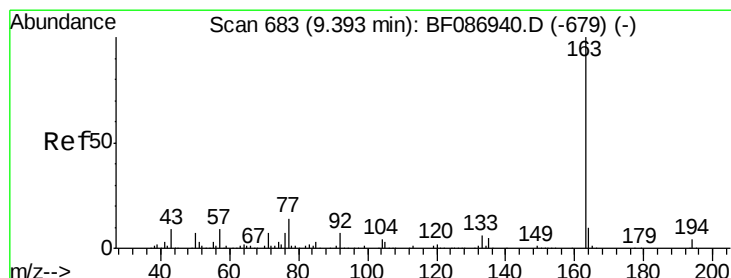
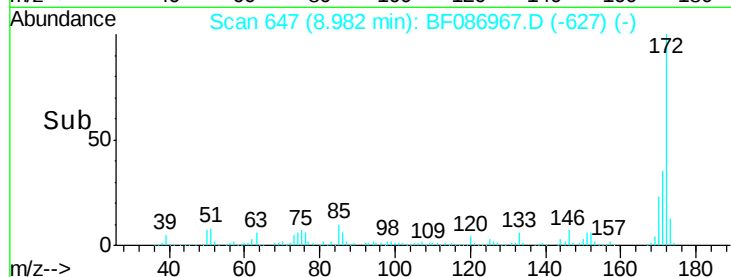
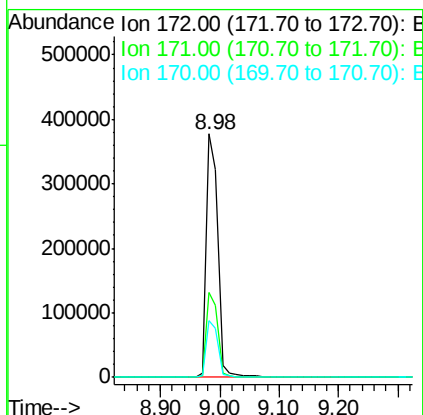
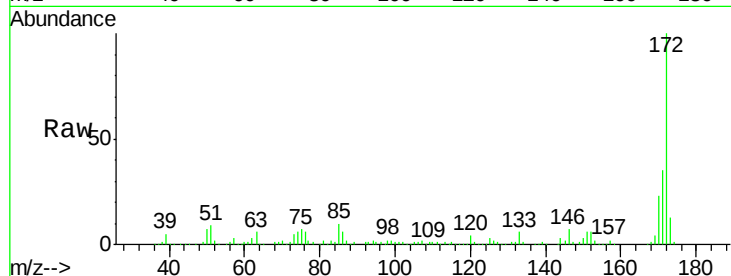




#44
 2-Fluorobiphenyl
 Concen: 37.85 ng
 RT: 8.98 min Scan# 647
 Delta R.T. -0.08 min
 Lab File: BF086967.D
 Acq: 13 May 2016 11:04

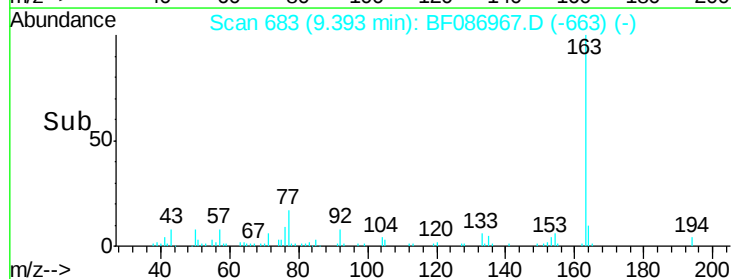
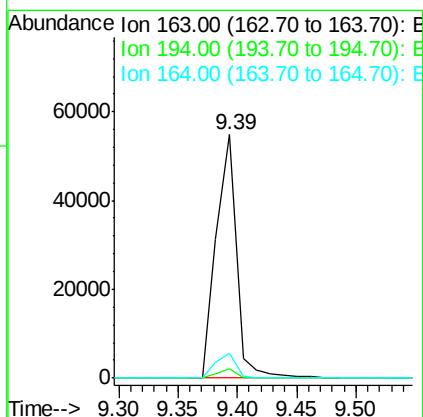
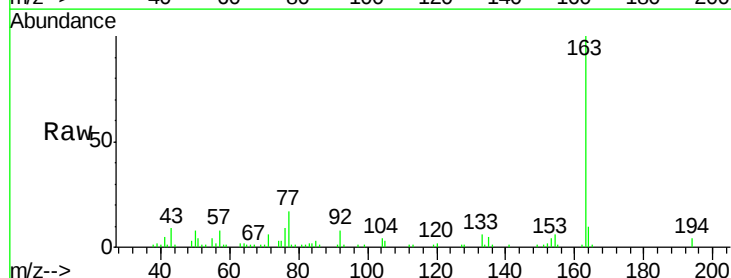
Instrument :
 BNA_F
 ClientSampleId :

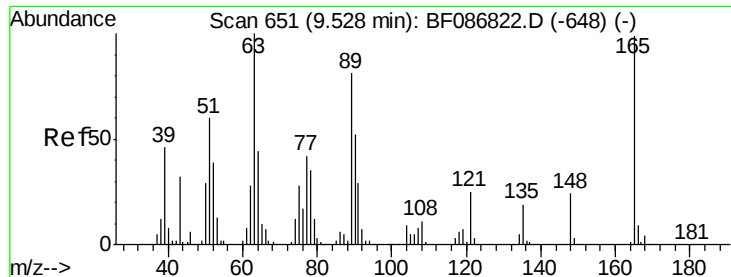
Tot Ion:172 Resp: 518415
 Ion Ratio Lower Upper
 172 100
 171 34.9 29.0 43.6
 170 23.4 19.8 29.8



#49
 Dimethylphthalate
 Concen: 3.69 ng
 RT: 9.39 min Scan# 683
 Delta R.T. -0.08 min
 Lab File: BF086967.D
 Acq: 13 May 2016 11:04

Tgt Ion:163 Resp: 64861
 Ion Ratio Lower Upper
 163 100
 194 3.9 2.6 4.0
 164 9.9 8.2 12.4





#50

2,6-Dinitrotoluene

Concen: 7.98 ng

RT: 9.66 min Scan# 706

Delta R.T. 0.13 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Instrument :

BNA_F

ClientSampleId :

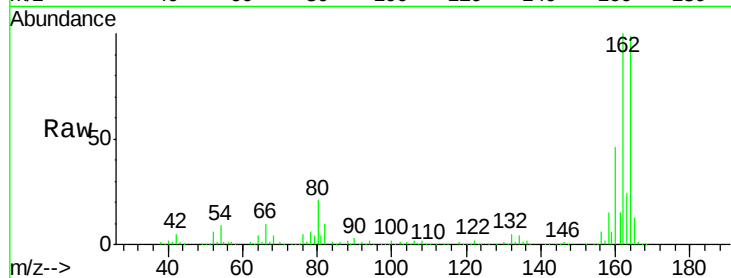
Tot Ion:165 Resp: 29493

Ion Ratio Lower Upper

165 100

63 1.7 51.8 77.8#

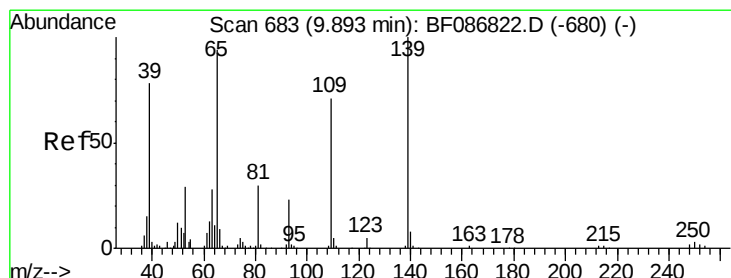
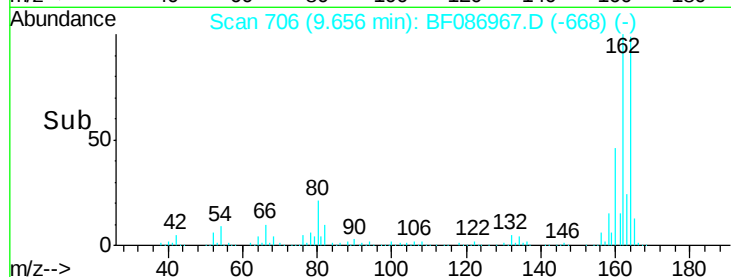
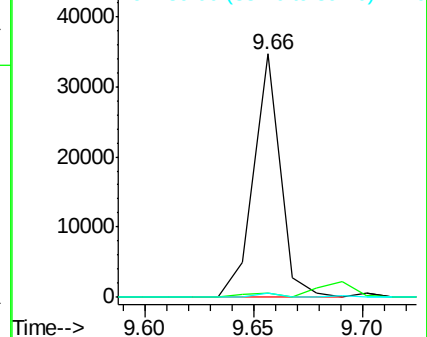
89 1.9 50.7 76.1#



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



#55

4-Nitrophenol

Concen: 5.05 ng

RT: 9.86 min Scan# 724

Delta R.T. -0.03 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

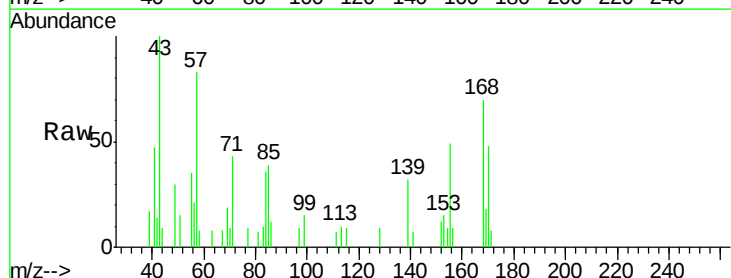
Tgt Ion:139 Resp: 1352

Ion Ratio Lower Upper

139 100

109 0.0 36.9 76.9#

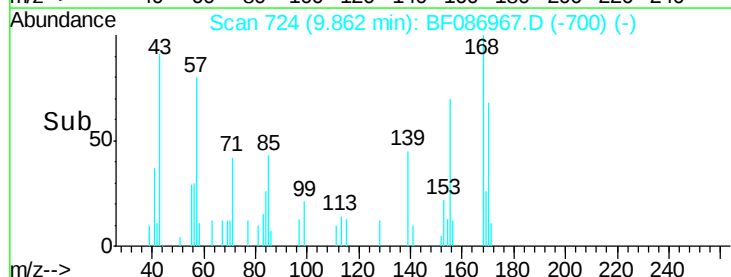
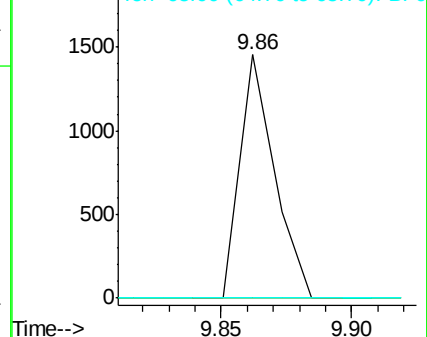
65 0.0 64.0 104.0#

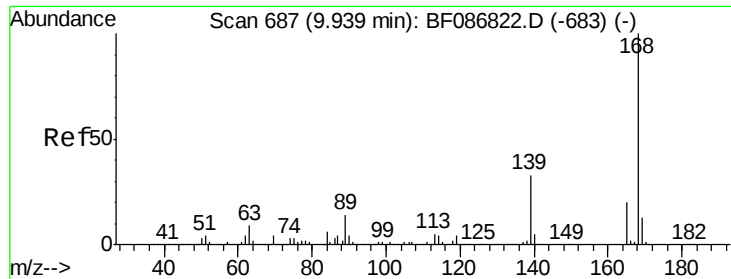


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

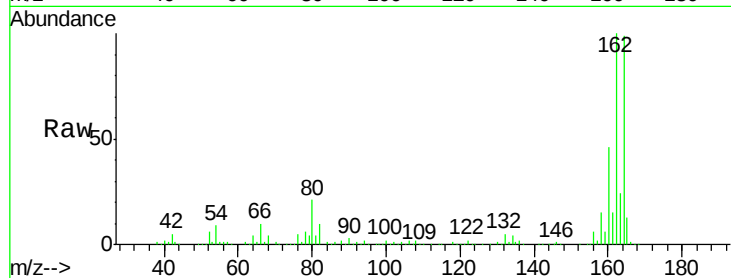




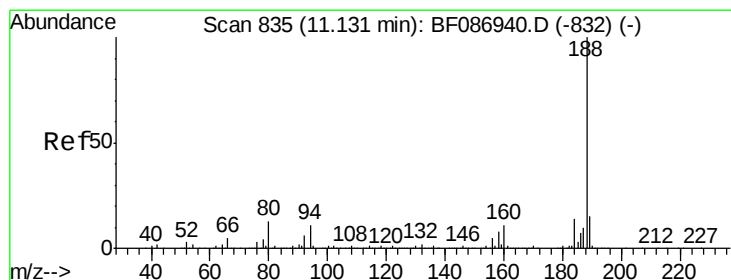
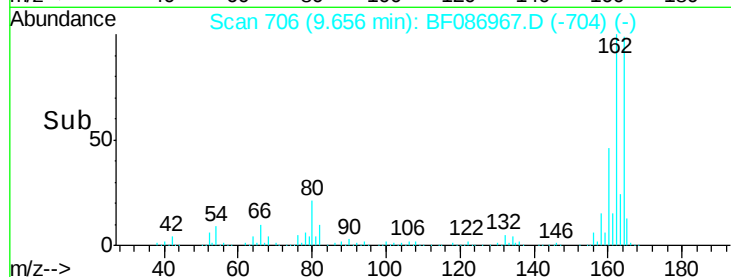
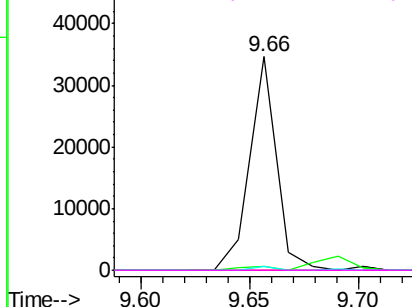
#56
 2,4-Dinitrotoluene
 Concen: 6.45 ng
 RT: 9.66 min Scan# 706
 Delta R.T. -0.28 min
 Lab File: BF086967.D
 Acq: 13 May 2016 11:04

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:165 Resp: 29493
 Ion Ratio Lower Upper
 165 100
 63 1.7 44.3 66.5#
 89 1.9 70.0 105.0#
 182 0.0 1.8 2.6#

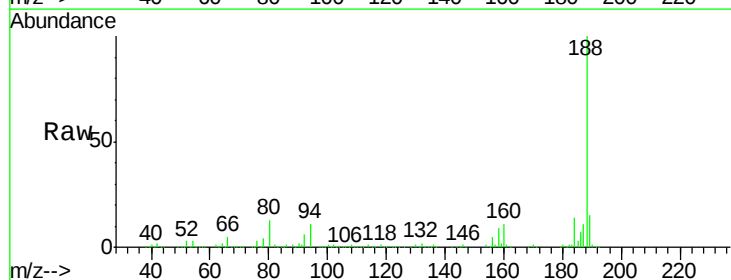


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

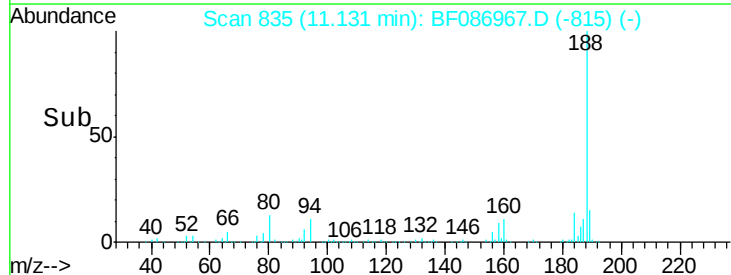
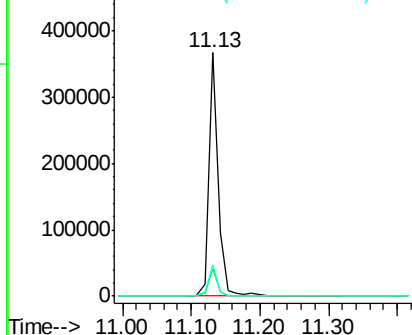


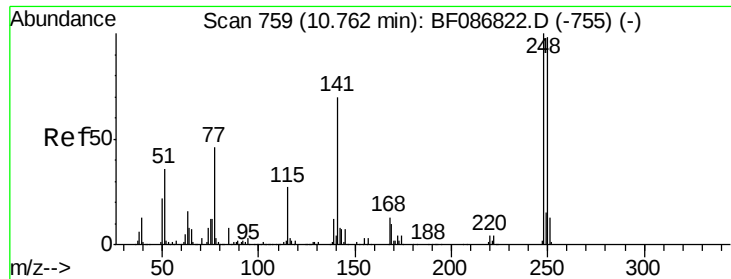
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.13 min Scan# 835
 Delta R.T. -0.08 min
 Lab File: BF086967.D
 Acq: 13 May 2016 11:04

Tgt Ion:188 Resp: 345641
 Ion Ratio Lower Upper
 188 100
 94 11.4 6.8 10.2#
 80 12.5 7.1 10.7#



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

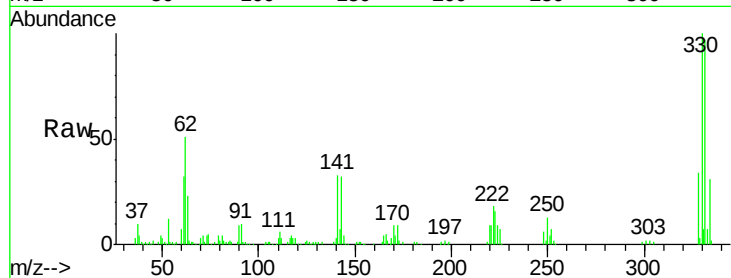




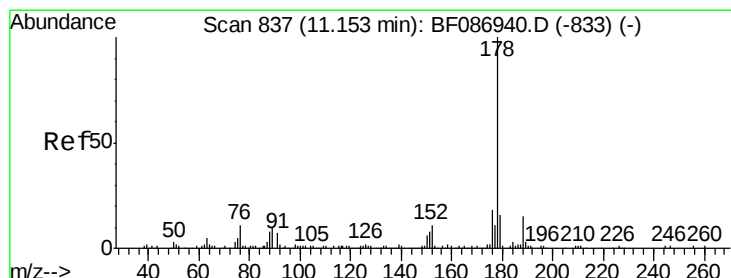
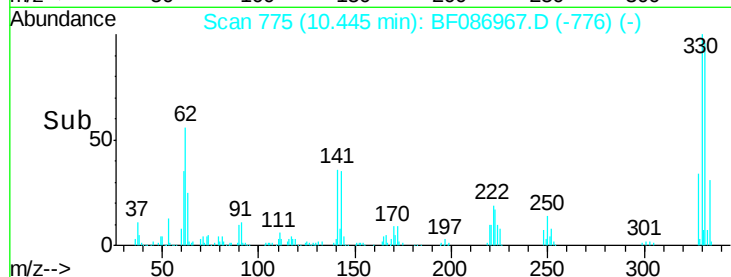
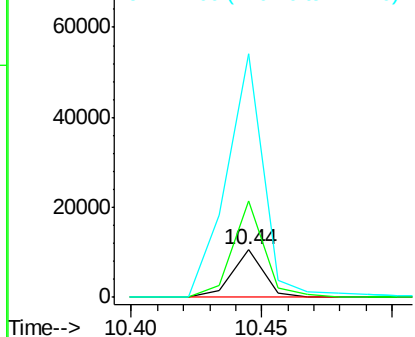
#66
4-Bromophenyl-phenylether
Concen: 2.55 ng
RT: 10.44 min Scan# 775
Delta R.T. -0.32 min
Lab File: BF086967.D
Acq: 13 May 2016 11:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 8941
Ion Ratio Lower Upper
248 100
250 202.4 78.6 117.8#
141 513.1 76.0 114.0#

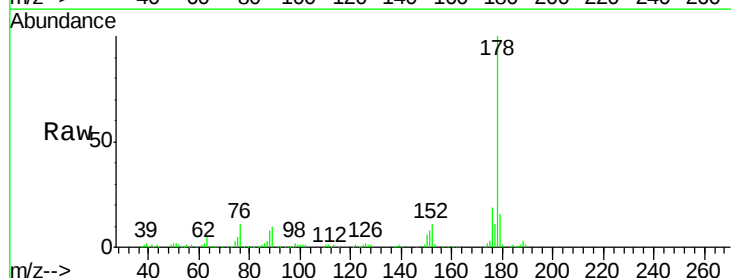


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

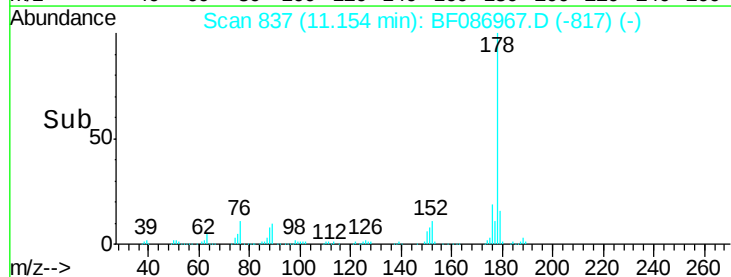
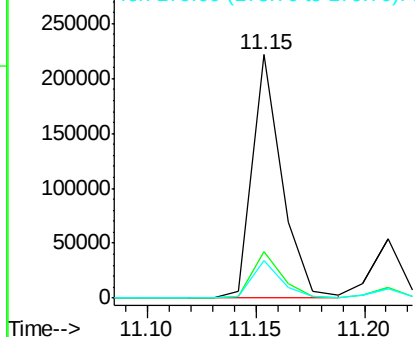


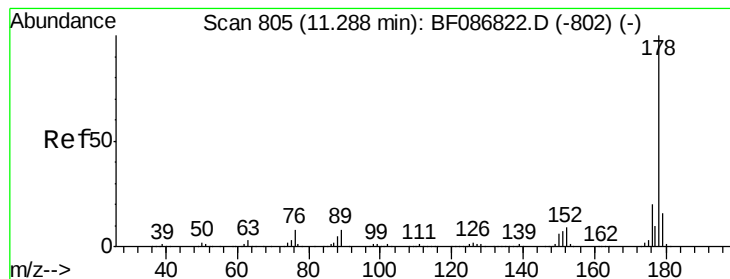
#70
Phenanthrene
Concen: 11.37 ng
RT: 11.15 min Scan# 837
Delta R.T. -0.08 min
Lab File: BF086967.D
Acq: 13 May 2016 11:04

Tgt Ion:178 Resp: 209702
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.5 12.6 18.8



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





#71

Anthracene

Concen: 3.04 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Instrument :

BNA_F

ClientSampled :

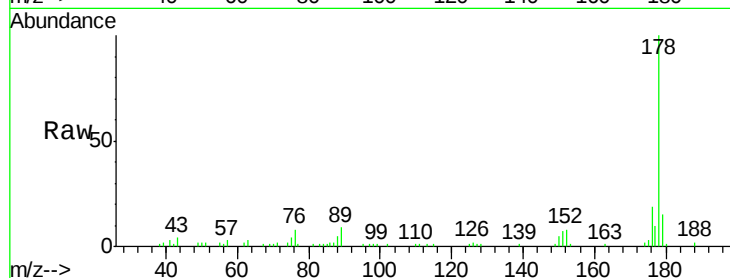
Tot Ion:178 Resp: 57275

Ion Ratio Lower Upper

178 100

176 18.9 15.6 23.4

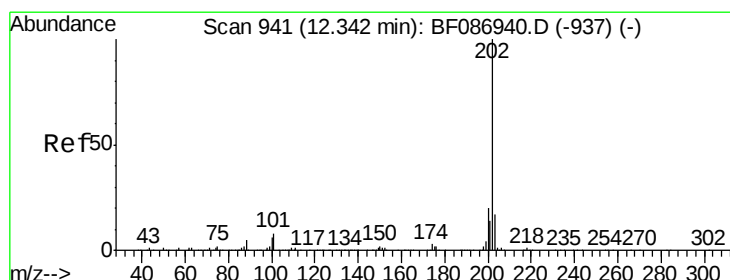
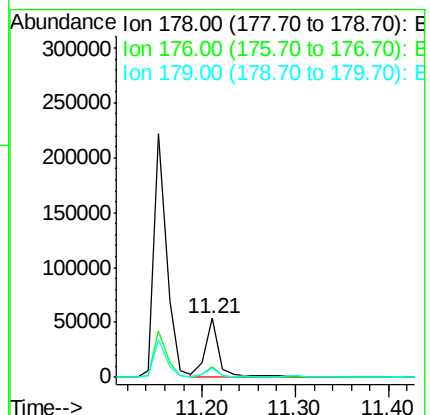
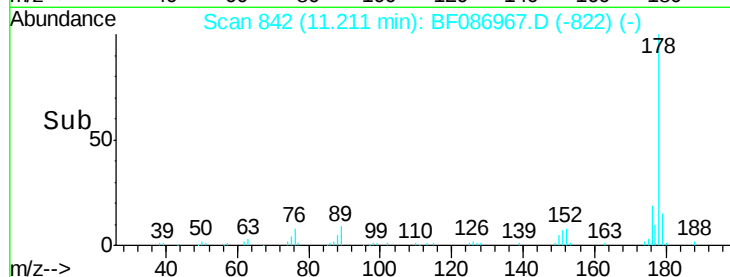
179 14.9 12.7 19.1



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: 6.41 ng

RT: 12.34 min Scan# 941

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

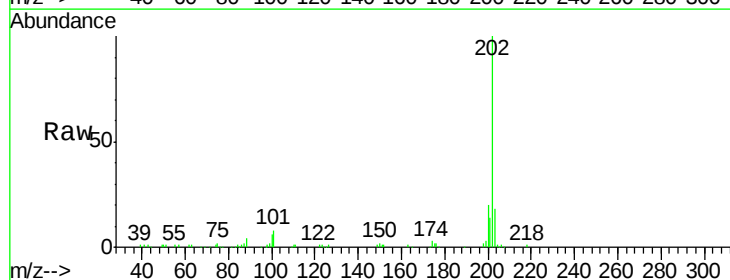
Tgt Ion:202 Resp: 121524

Ion Ratio Lower Upper

202 100

101 8.3 0.0 35.4

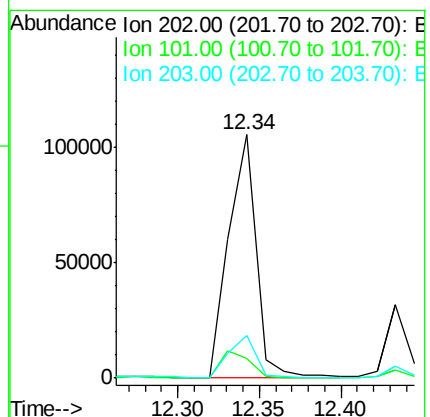
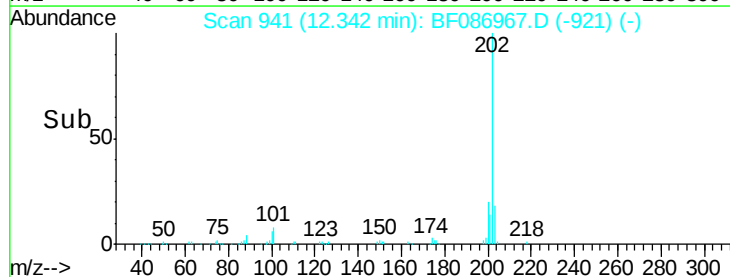
203 17.5 0.0 38.1

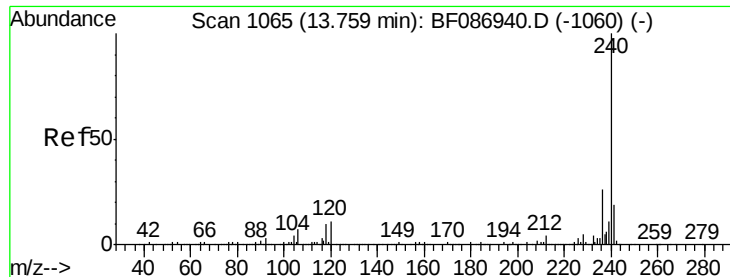


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.76 min Scan# 1065

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Instrument :

BNA_F

ClientSampled :

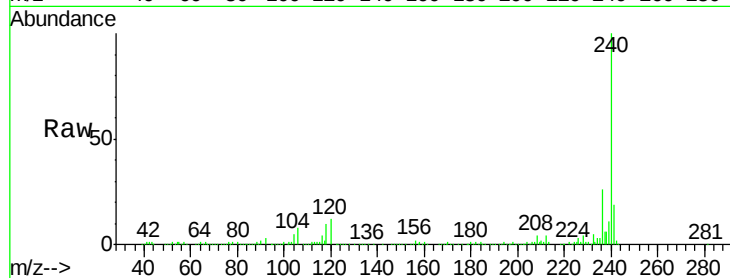
Tot Ion:240 Resp: 326670

Ion Ratio Lower Upper

240 100

120 12.2 11.2 16.8

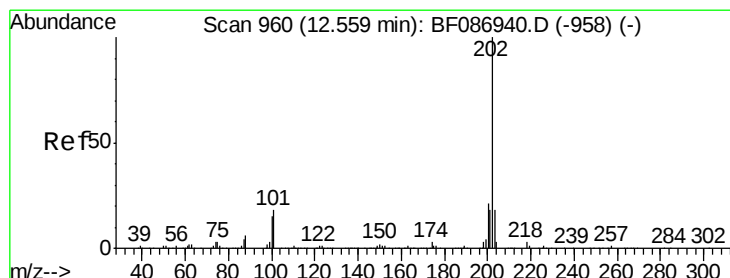
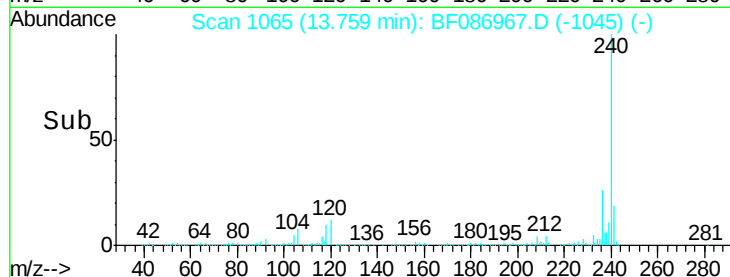
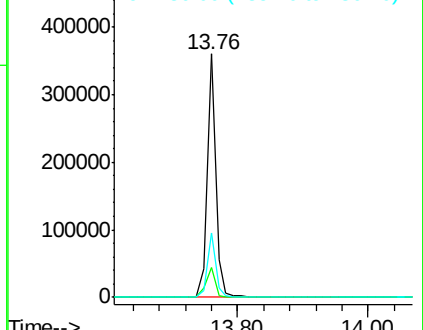
236 26.5 21.2 31.8



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: 6.84 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

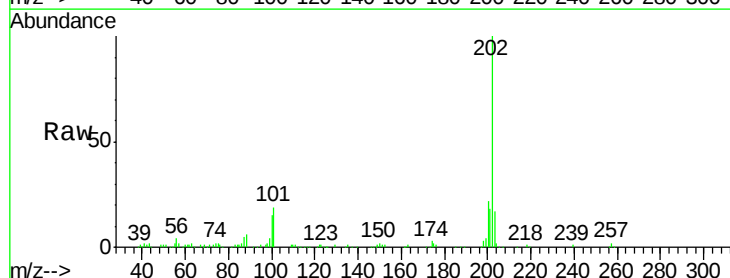
Tgt Ion:202 Resp: 171058

Ion Ratio Lower Upper

202 100

200 21.6 17.7 26.5

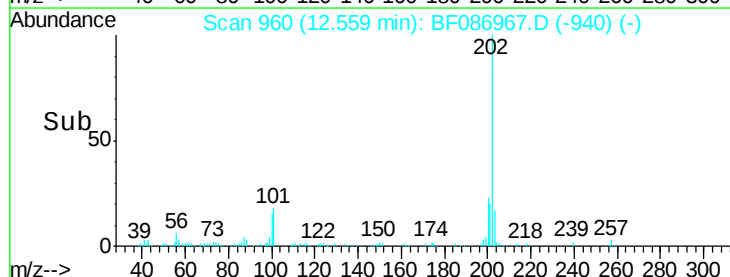
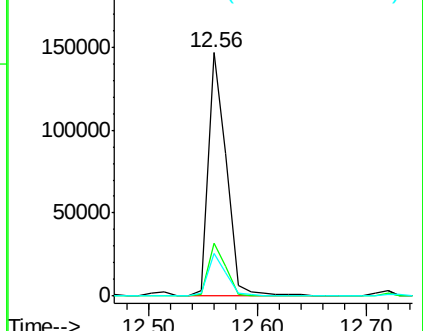
203 17.5 14.2 21.4

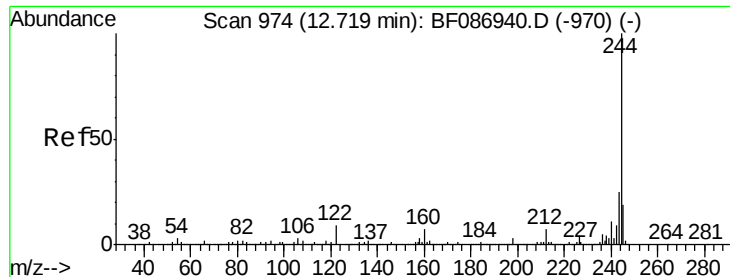


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 47.54 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Instrument :

BNA_F

ClientSampleId :

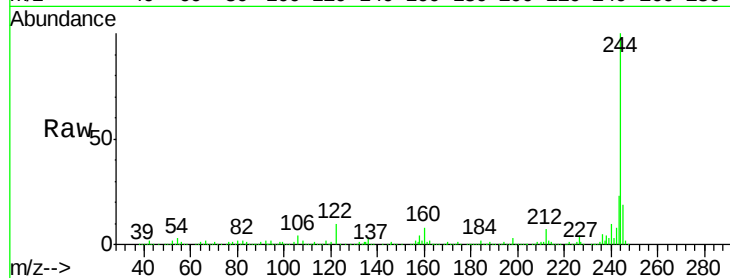
Tot Ion:244 Resp: 732025

Ion Ratio Lower Upper

244 100

212 7.1 6.2 9.2

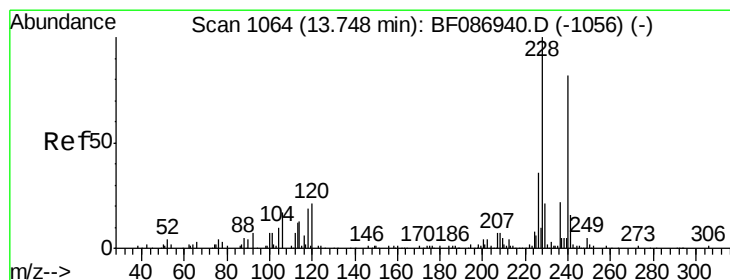
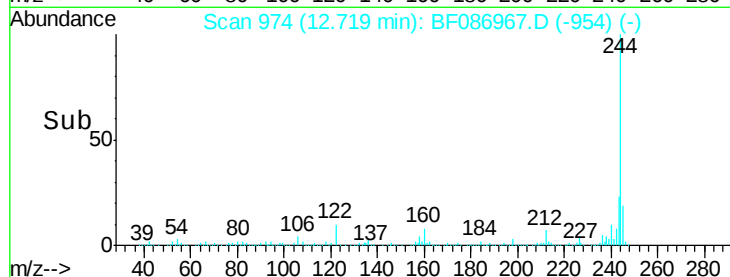
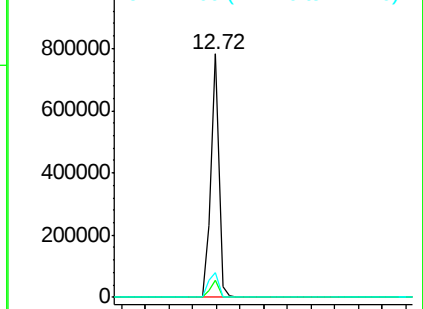
122 10.4 12.0 18.0#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 2.37 ng

RT: 13.78 min Scan# 1067

Delta R.T. -0.04 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

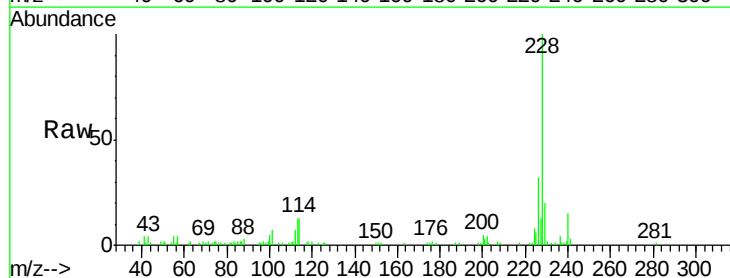
Tgt Ion:228 Resp: 43406

Ion Ratio Lower Upper

228 100

226 31.9 22.5 33.7

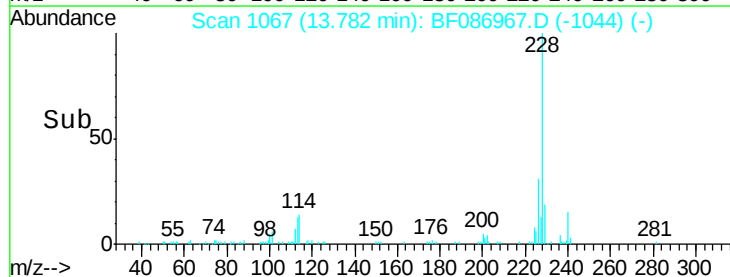
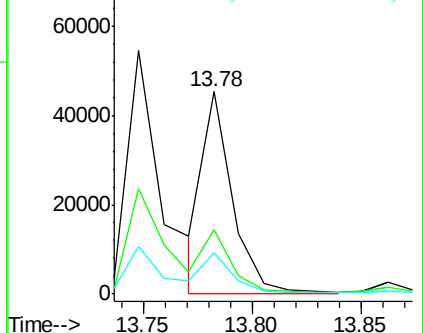
229 20.3 16.6 25.0

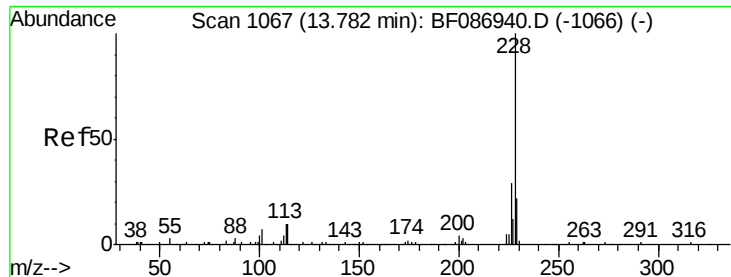


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.33 ng

RT: 13.78 min Scan# 1067

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

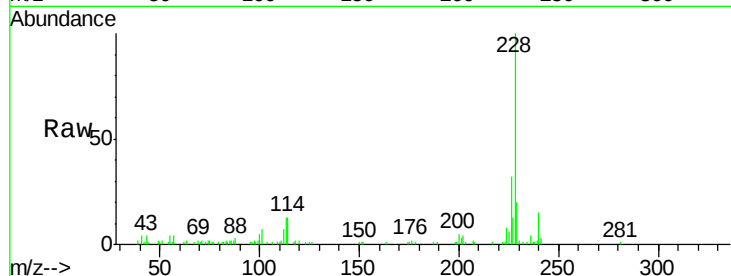
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 43406

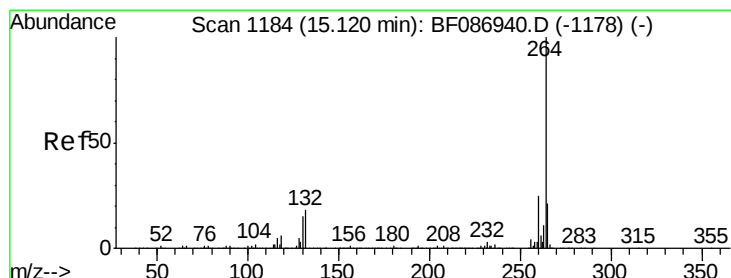
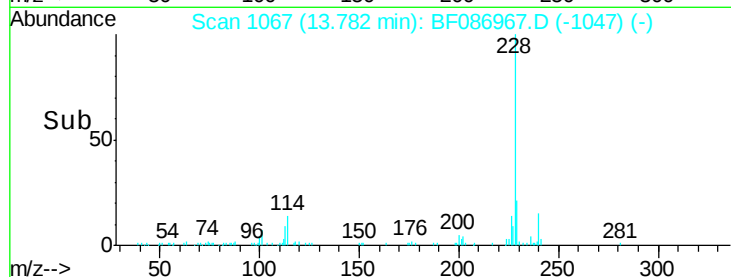
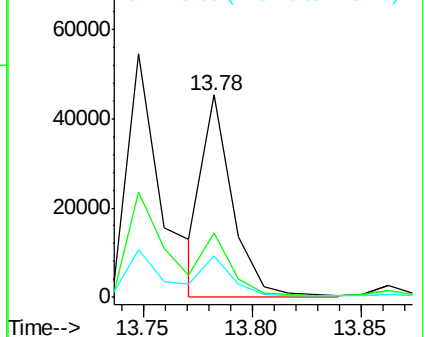
Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.4	36.6
229	20.3	15.8	23.8



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

Perylene-d12

Concen: 20.00 ng

RT: 15.12 min Scan# 1184

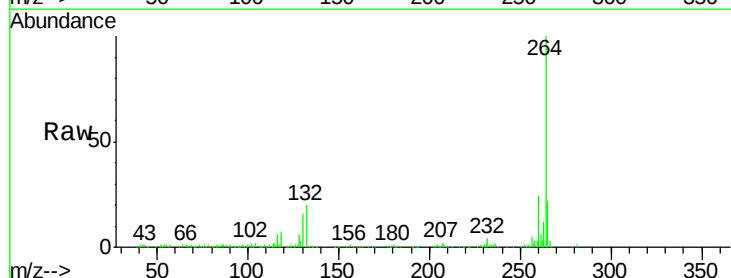
Delta R.T. -0.09 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Tgt Ion:264 Resp: 258306

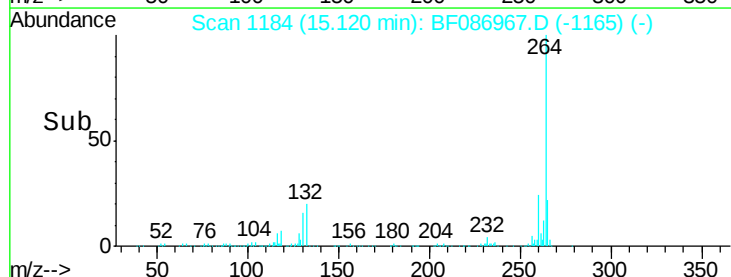
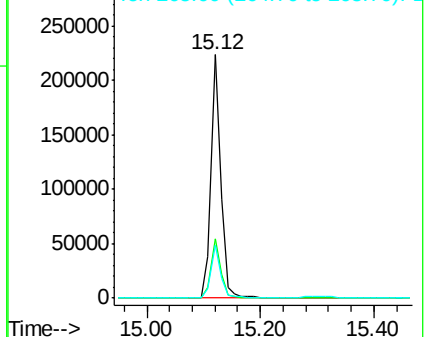
Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	21.9	17.3	25.9

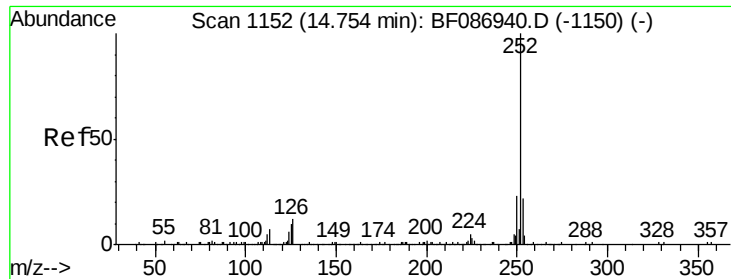


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 3.40 ng

RT: 14.75 min Scan# 1152

Delta R.T. -0.08 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Instrument :

BNA_F

ClientSampleId :

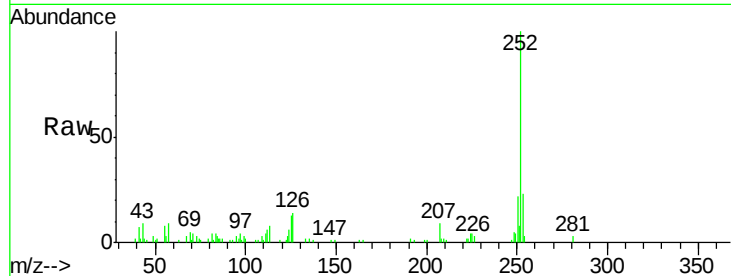
Tot Ion:252 Resp: 57014

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.6

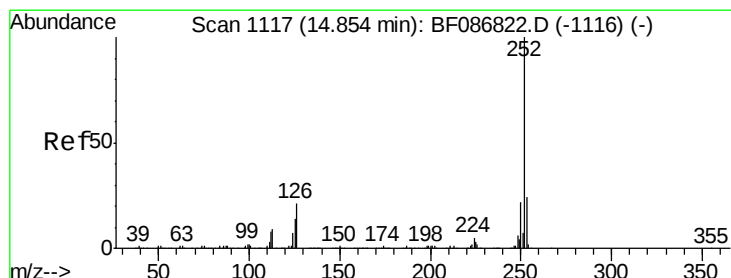
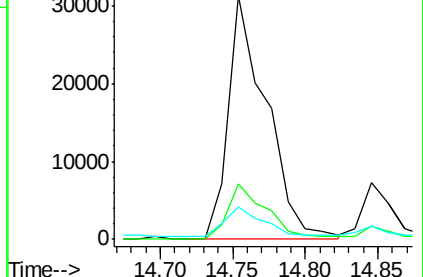
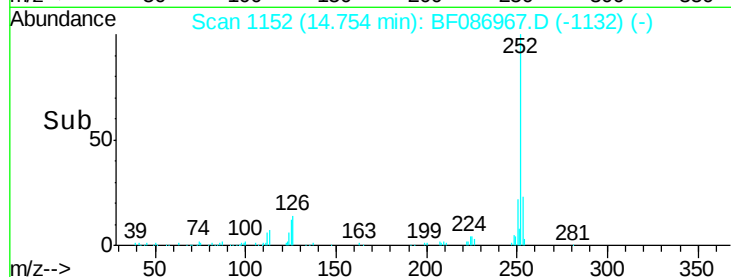
125 13.1 11.4 17.0



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: 4.15 ng

RT: 14.75 min Scan# 1152

Delta R.T. -0.10 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

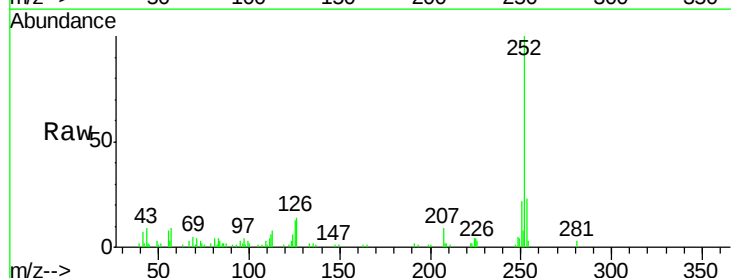
Tgt Ion:252 Resp: 57014

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.6

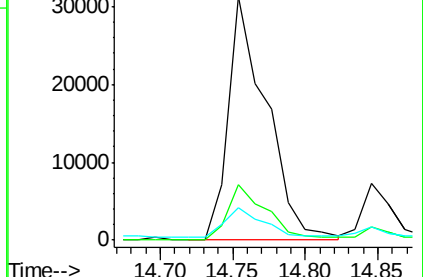
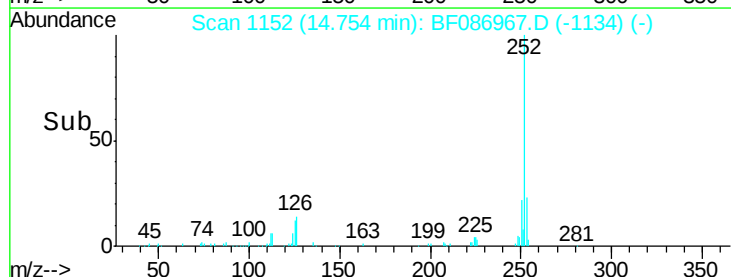
125 13.1 9.1 13.7

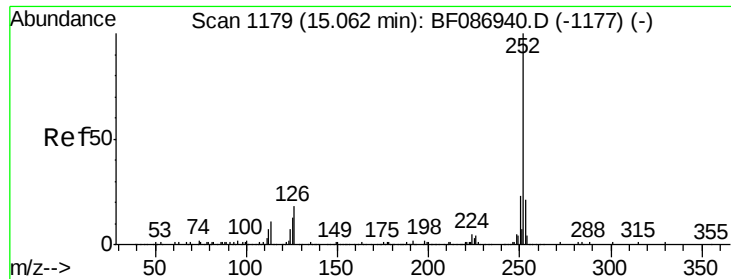


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 3.17 ng

RT: 15.06 min Scan# 1179

Delta R.T. -0.09 min

Lab File: BF086967.D

Acq: 13 May 2016 11:04

Instrument :

BNA_F

ClientSampleId :

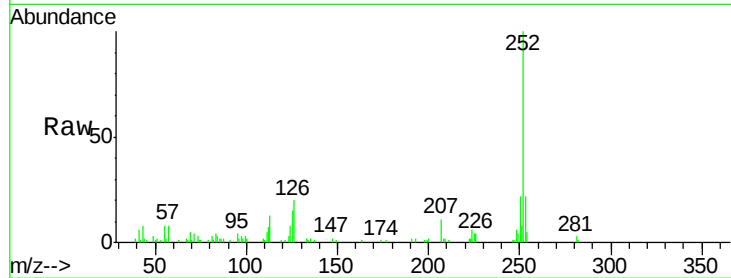
Tot Ion: 252 Resp: 45838

Ion Ratio Lower Upper

252 100

253 21.9 17.2 25.8

125 15.1 9.0 13.6



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

