

Data Path : Z:\HPCHEM1\BNA F\Data\BF051216\
 Data File : BF086970.D
 Acq On : 13 May 2016 12:28
 Operator : UM/SJ
 Sample : H2994-03DL 5X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 13 14:56:00 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 14:55:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	131744	20.00	ng	-0.08
21) Naphthalene-d8	7.91	136	523099	20.00	ng	-0.08
38) Acenaphthene-d10	9.66	164	220254	20.00	ng	-0.08
63) Phenanthrene-d10	11.13	188	341558	20.00	ng	-0.08
75) Chrysene-d12	13.76	240	299495	20.00	ng	-0.08
86) Perylene-d12	15.12	264	255420	20.00	ng	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.21	112	196237	25.23	ng	-0.08
7) Phenol-d6	6.28	99	252683	24.30	ng	-0.08
23) Nitrobenzene-d5	7.19	82	165955	15.93	ng	-0.08
41) 2,4,6-Tribromophenol	10.44	330	44395	19.04	ng	-0.08
44) 2-Fluorobiphenyl	8.98	172	277538	21.18	ng	-0.08
78) Terphenyl-d14	12.72	244	207270	14.68	ng	-0.08

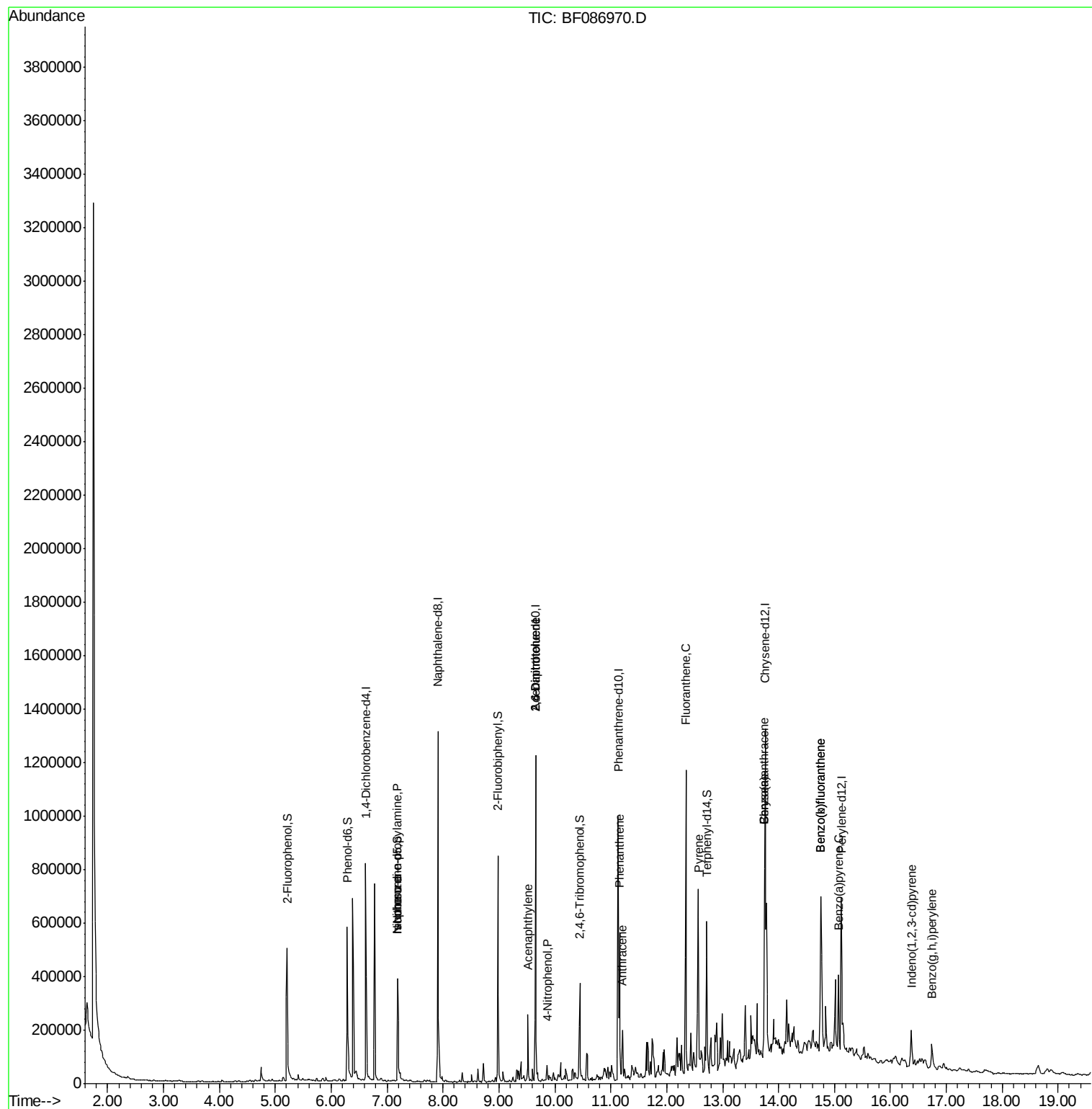
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.19	70	22363	3.08	ng	# 64
25) Isophorone	7.19	82	158357	8.19	ng	# 68
48) Acenaphthylene	9.52	152	104266	5.16	ng	98
50) 2,6-Dinitrotoluene	9.66	165	28883	8.17	ng	# 21
55) 4-Nitrophenol	9.86	139	5174	6.53	ng	# 18
56) 2,4-Dinitrotoluene	9.66	165	29199	6.67	ng	# 16
70) Phenanthrene	11.15	178	192349	10.55	ng	99
71) Anthracene	11.21	178	87105	4.67	ng	99
74) Fluoranthene	12.34	202	479585	25.58	ng	92
77) Pyrene	12.57	202	377846	16.48	ng	98
80) Benzo(a)anthracene	13.75	228	277113	16.48	ng	# 92
82) Chrysene	13.75	228	277113	16.20	ng	93
85) Indeno(1,2,3-cd)pyrene	16.38	276	83324	5.86	ng	# 92
87) Benzo(b)fluoranthene	14.75	252	382854	23.06	ng	97
88) Benzo(k)fluoranthene	14.75	252	382854	28.17	ng	97
89) Benzo(a)pyrene	15.07	252	159406	11.13	ng	96
91) Benzo(a,h,i)perylene	16.74	276	65739	5.36	ng	97

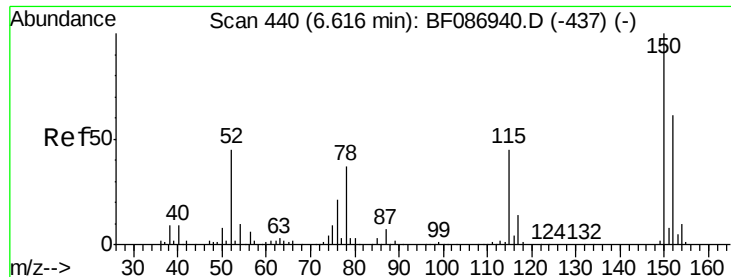
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: May 13 14:56:00 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 13 14:55:23 2016
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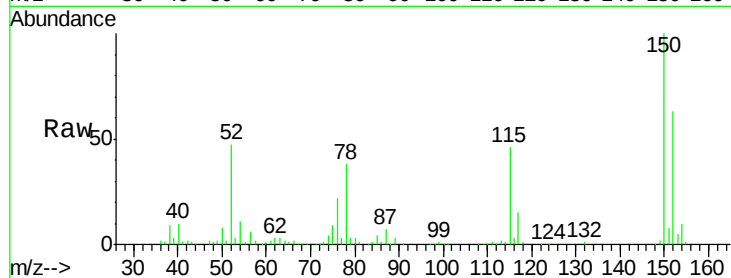


#1

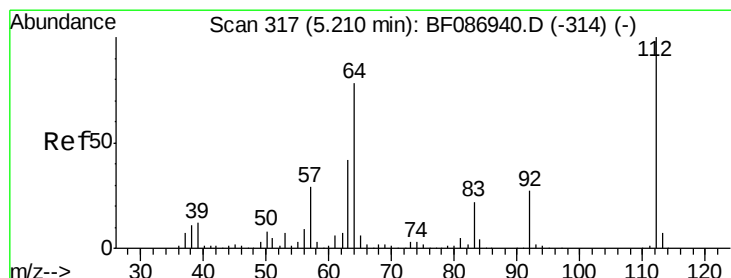
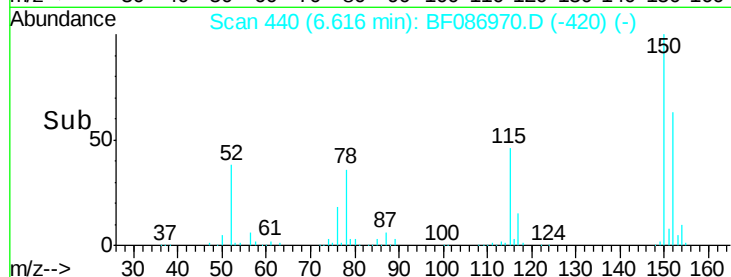
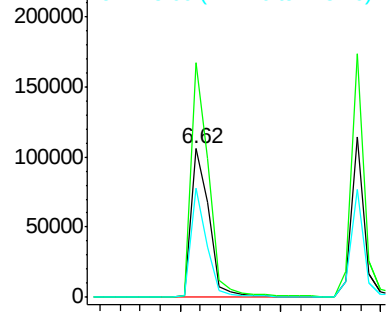
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.62 min Scan# 440
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 131744
Ion Ratio Lower Upper
152 100
150 158.1 125.8 188.6
115 73.4 51.5 77.3



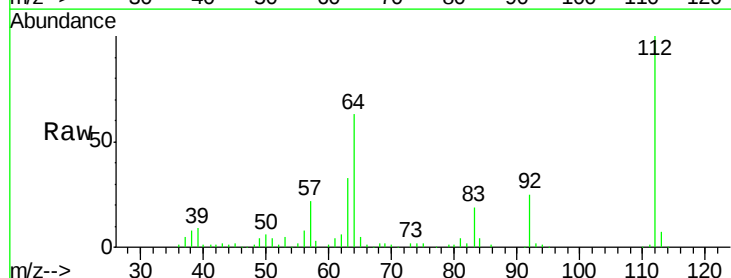
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



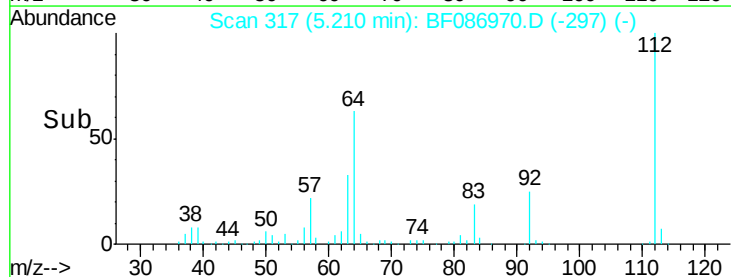
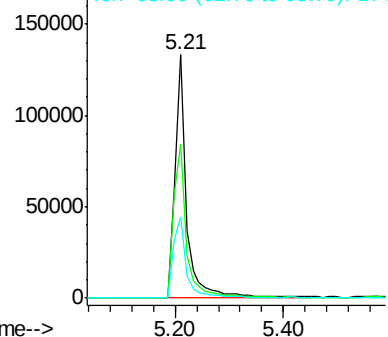
#5

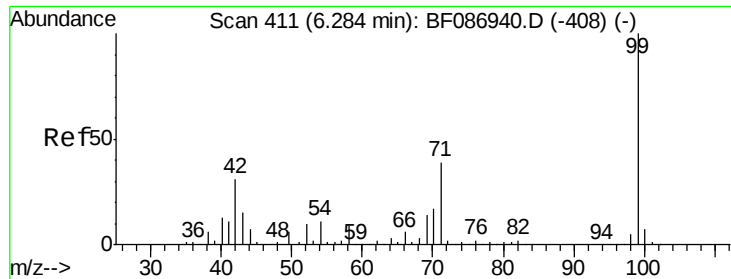
2-Fluorophenol
Concen: 25.23 ng
RT: 5.21 min Scan# 317
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:112 Resp: 196237
Ion Ratio Lower Upper
112 100
64 63.2 52.1 78.1
63 33.4 25.7 38.5



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: 24.30 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampled :

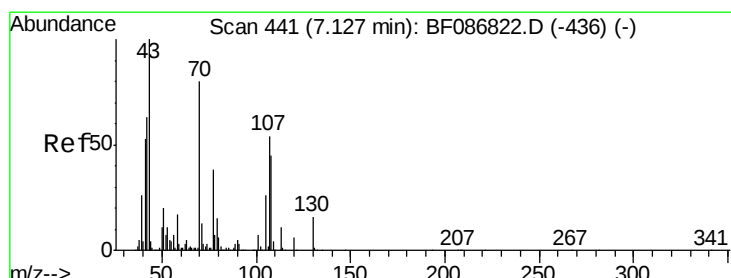
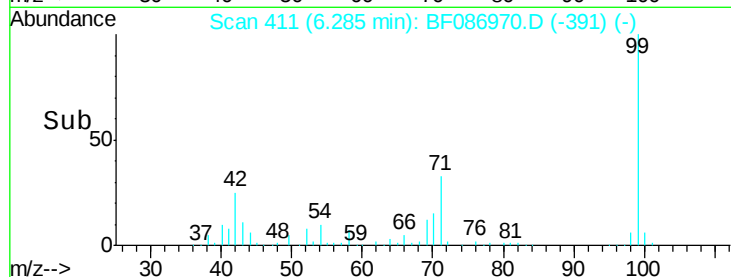
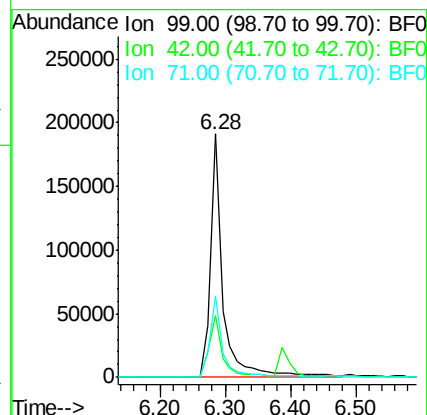
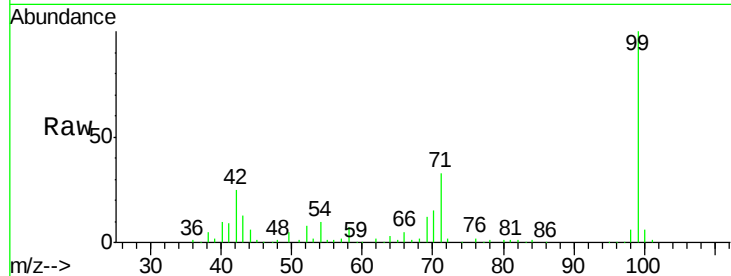
Tot Ion: 99 Resp: 252683

Ion Ratio Lower Upper

99 100

42 25.5 13.6 20.4#

71 33.3 24.6 36.8



#19

n-Nitroso-di-n-propylamine

Concen: 3.08 ng

RT: 7.19 min Scan# 490

Delta R.T. 0.06 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion: 70 Resp: 22363

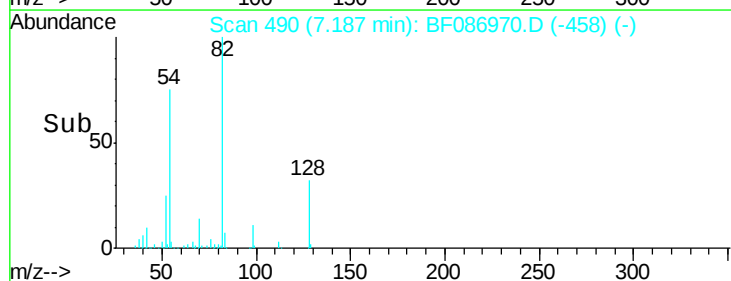
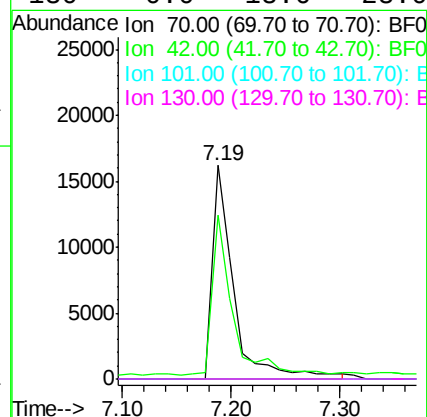
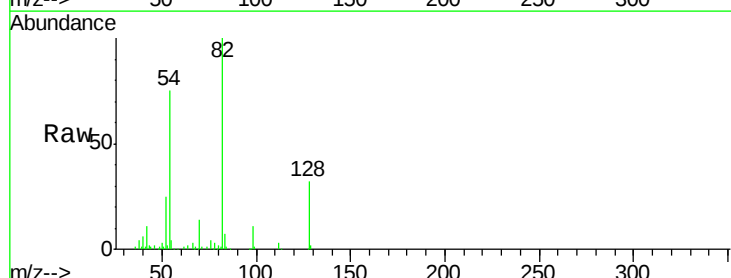
Ion Ratio Lower Upper

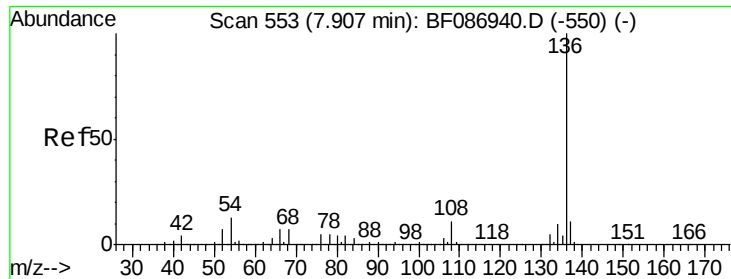
70 100

42 77.0 43.1 64.7#

101 0.0 8.1 12.1#

130 0.0 18.6 28.0#

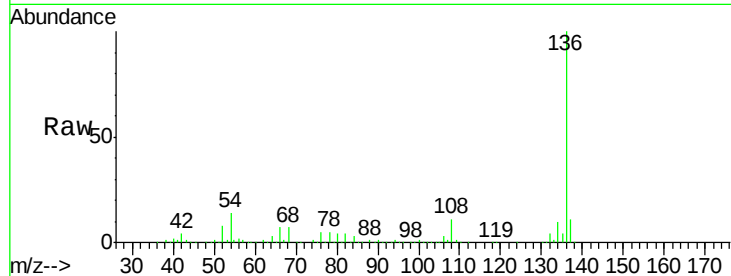




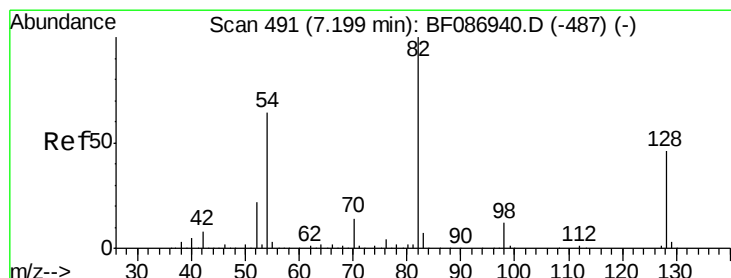
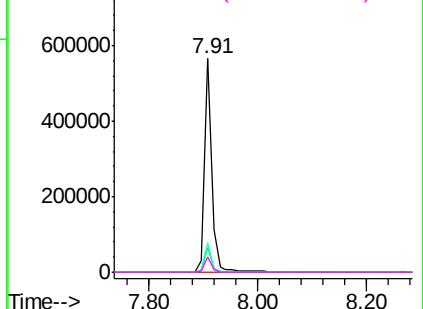
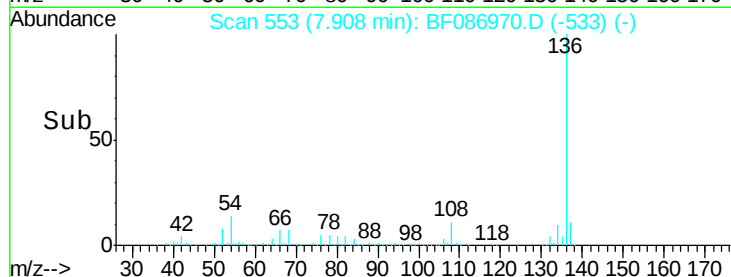
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.91 min Scan# 553
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	523099
Ion Ratio	Lower	Upper
136	100	
137	11.2	8.8 13.2
54	13.7	5.0 7.4#
68	7.3	4.4 6.6#

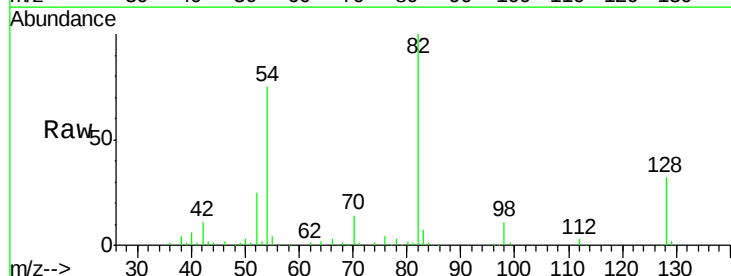


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

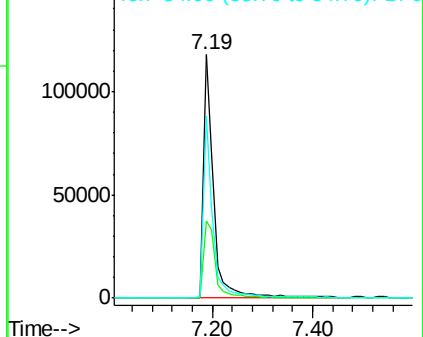
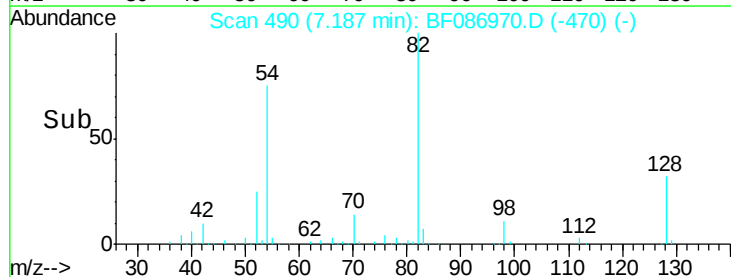


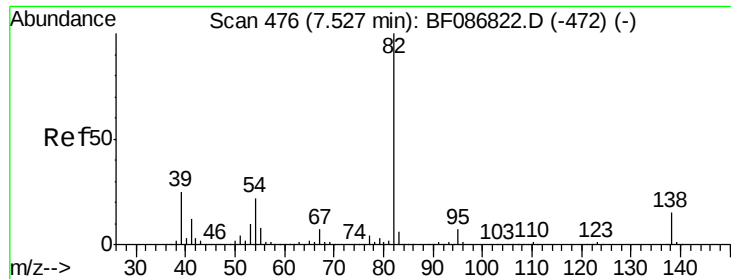
#23
Nitrobenzene-d5
Concen: 15.93 ng
RT: 7.19 min Scan# 490
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion: 82	Resp:	165955
Ion Ratio	Lower	Upper
82	100	
128	31.5	40.6 61.0#
54	75.0	38.1 57.1#



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: 8.19 ng

RT: 7.19 min Scan# 490

Delta R.T. -0.34 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

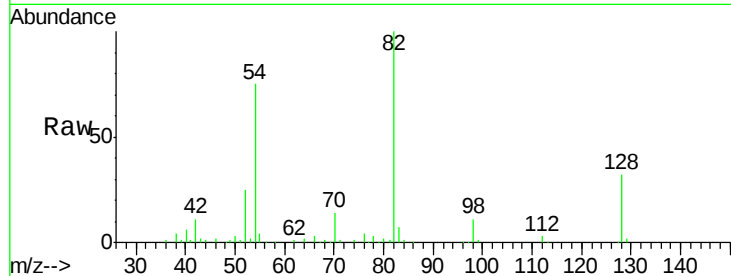
Tot Ion: 82 Resp: 158357

Ion Ratio Lower Upper

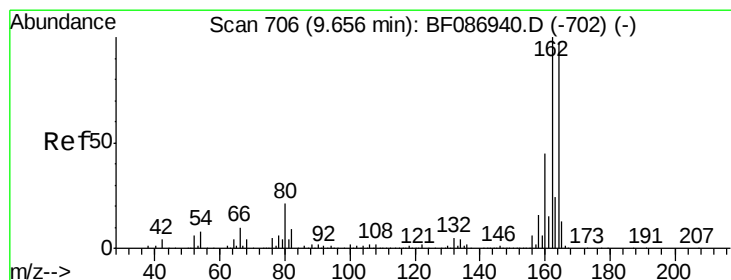
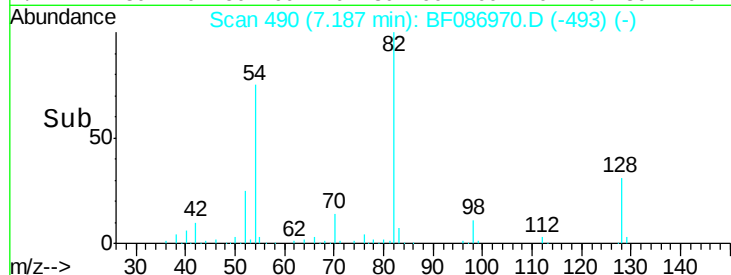
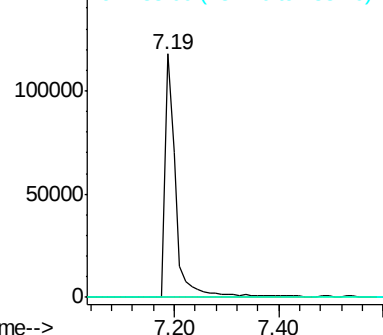
82 100

95 0.0 5.1 7.7#

138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

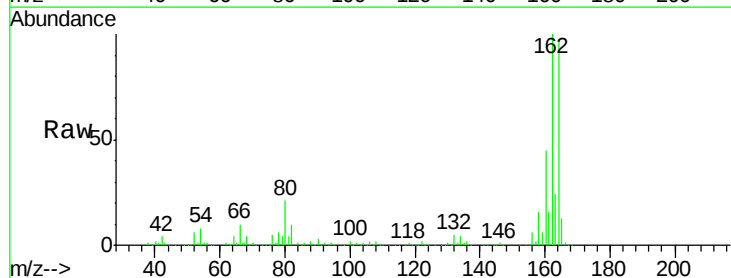
Tgt Ion: 164 Resp: 220254

Ion Ratio Lower Upper

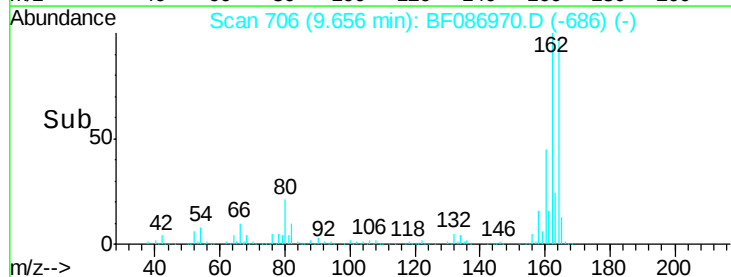
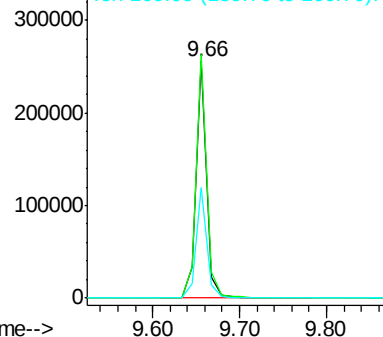
164 100

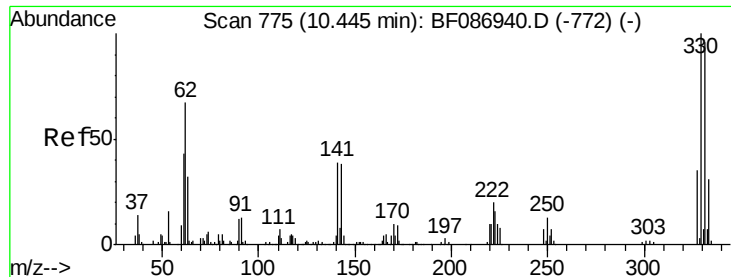
162 102.7 82.8 124.2

160 46.4 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

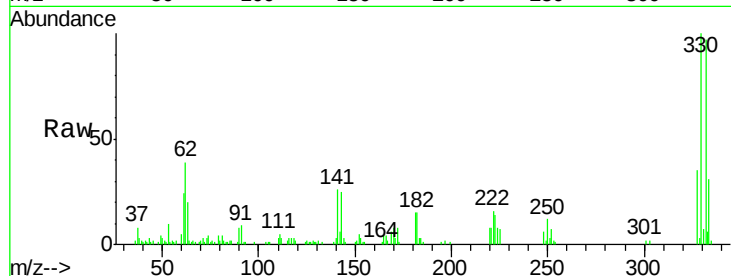




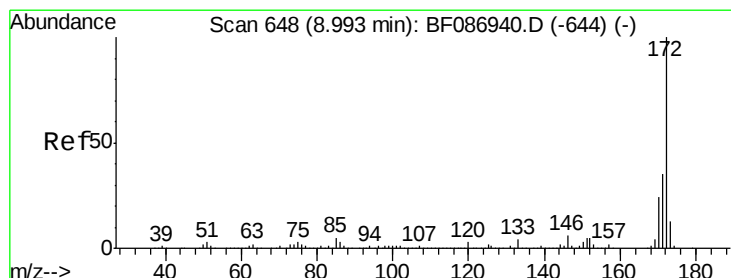
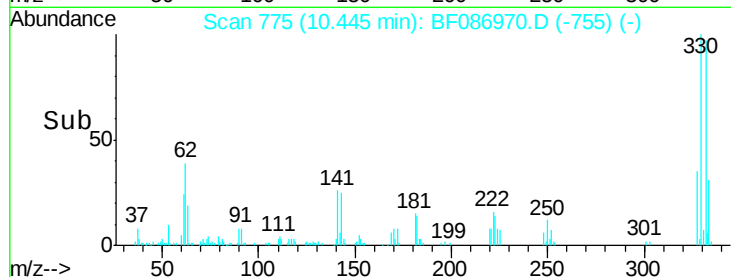
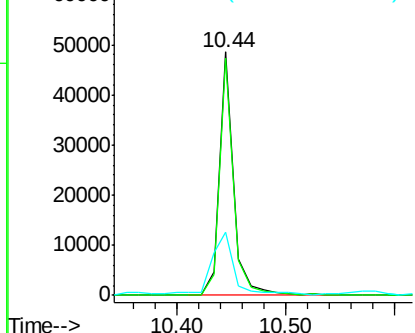
#41
 2,4,6-Tribromophenol
 Concen: 19.04 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.08 min
 Lab File: BF086970.D
 Acq: 13 May 2016 12:28

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 44395
 Ion Ratio Lower Upper
 330 100
 332 96.2 79.0 118.4
 141 42.9 31.2 46.8

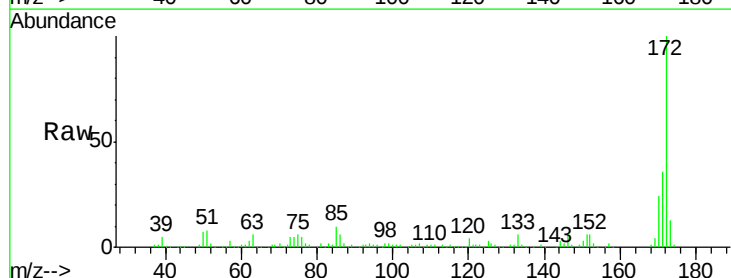


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

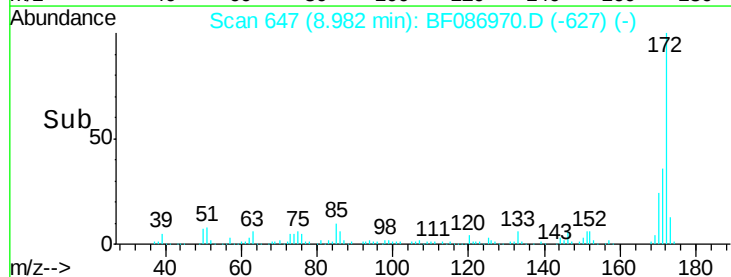
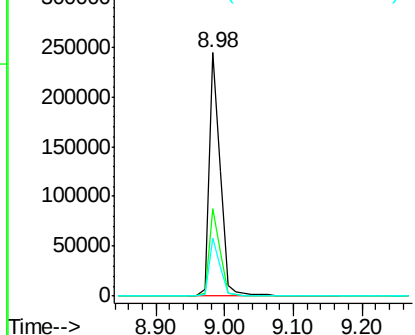


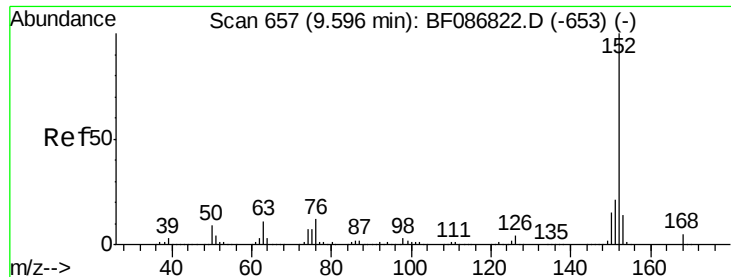
#44
 2-Fluorobiphenyl
 Concen: 21.18 ng
 RT: 8.98 min Scan# 647
 Delta R.T. -0.08 min
 Lab File: BF086970.D
 Acq: 13 May 2016 12:28

Tgt Ion:172 Resp: 277538
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.0 43.6
 170 23.7 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





#48

Acenaphthylene

Concen: 5.16 ng

RT: 9.52 min Scan# 694

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampled :

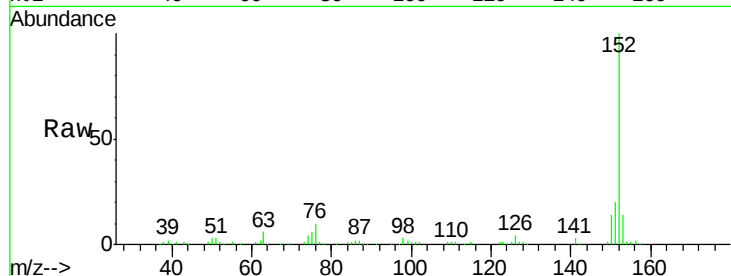
Tot Ion:152 Resp: 104266

Ion Ratio Lower Upper

152 100

151 19.6 16.8 25.2

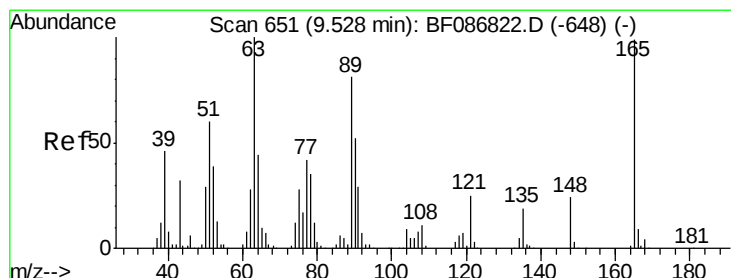
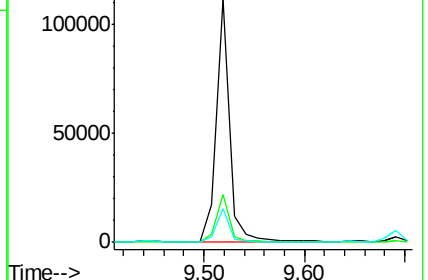
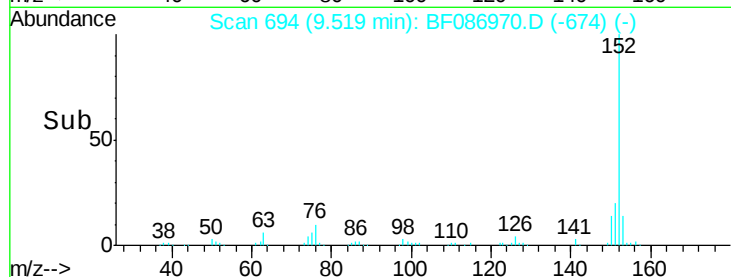
153 13.8 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.17 ng

RT: 9.66 min Scan# 706

Delta R.T. 0.13 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

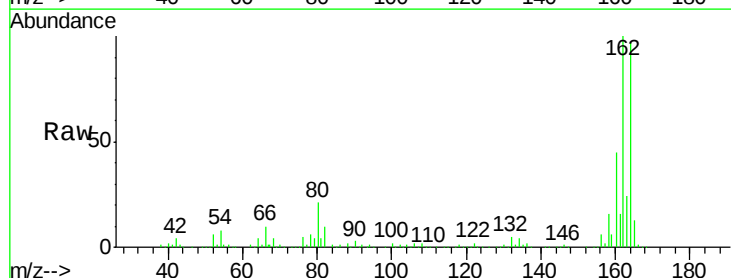
Tgt Ion:165 Resp: 28883

Ion Ratio Lower Upper

165 100

63 2.5 51.8 77.8#

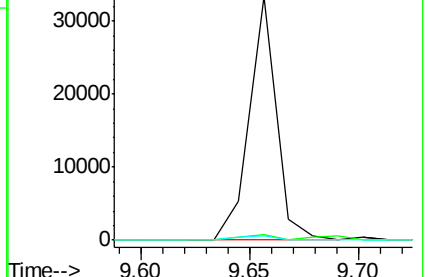
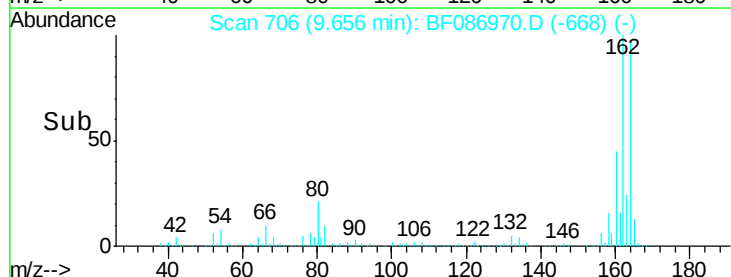
89 1.9 50.7 76.1#

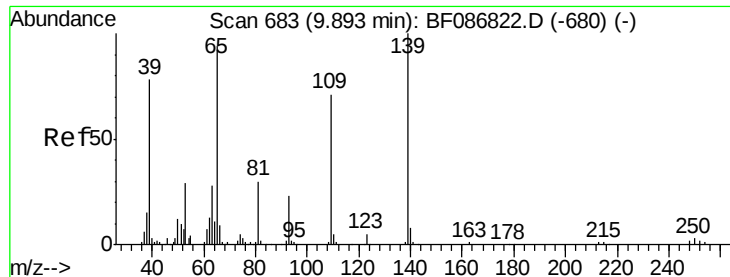


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#55

4-Nitrophenol

Concen: 6.53 ng

RT: 9.86 min Scan# 724

Delta R.T. -0.03 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

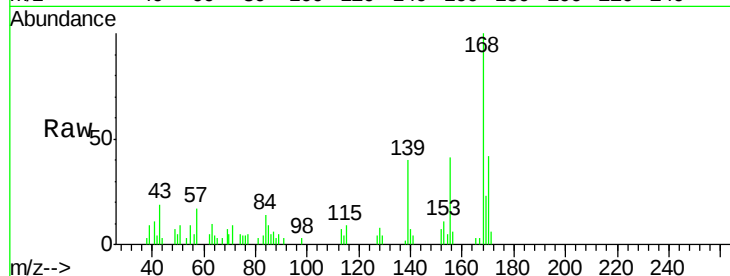
Tot Ion:139 Resp: 5174

Ion Ratio Lower Upper

139 100

109 0.0 36.9 76.9#

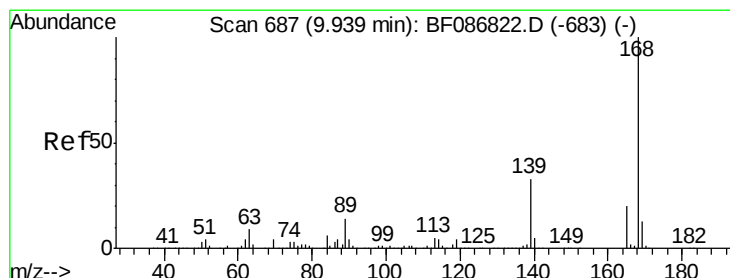
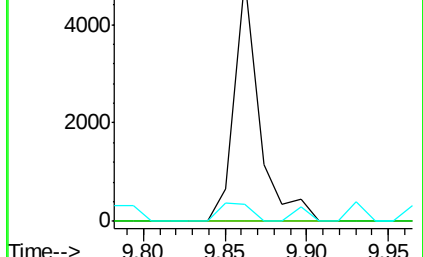
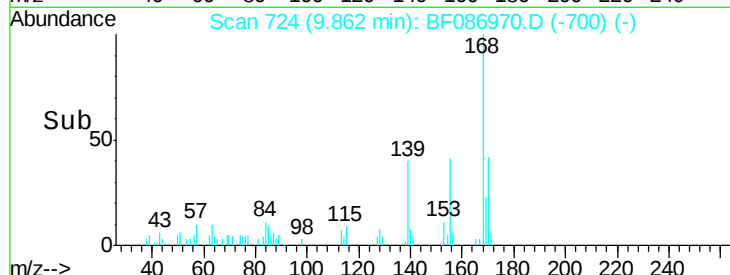
65 7.2 64.0 104.0#



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: 6.67 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.28 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Tgt Ion:165 Resp: 29199

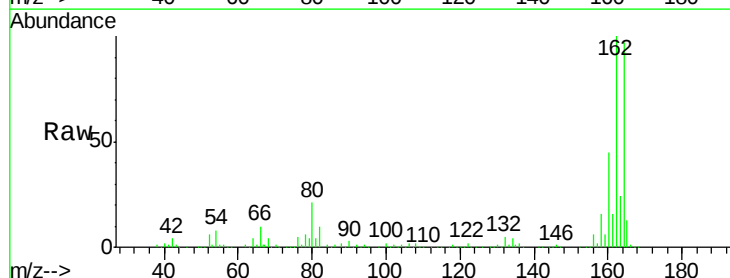
Ion Ratio Lower Upper

165 100

63 2.5 44.3 66.5#

89 1.9 70.0 105.0#

182 0.0 1.8 2.6#

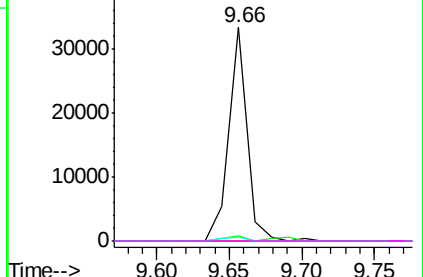
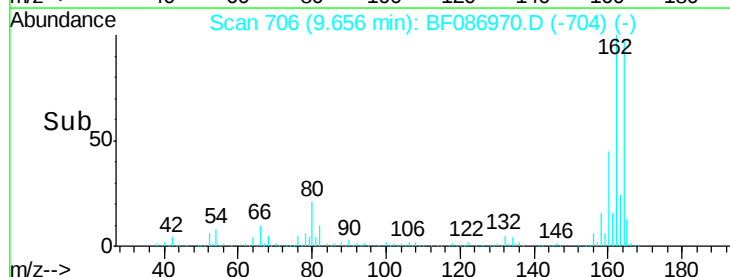


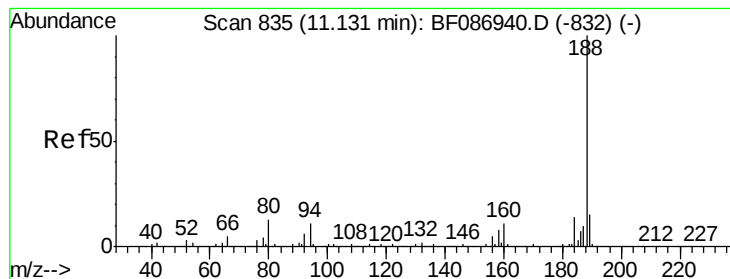
Abundance Ion 165.00 (164.70 to 165.70): E

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: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

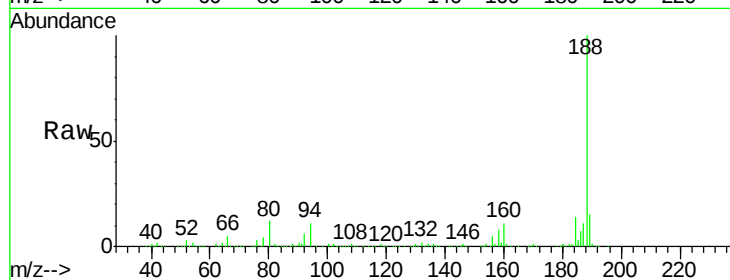
Tot Ion:188 Resp: 341558

Ion Ratio Lower Upper

188 100

94 11.2 6.8 10.2#

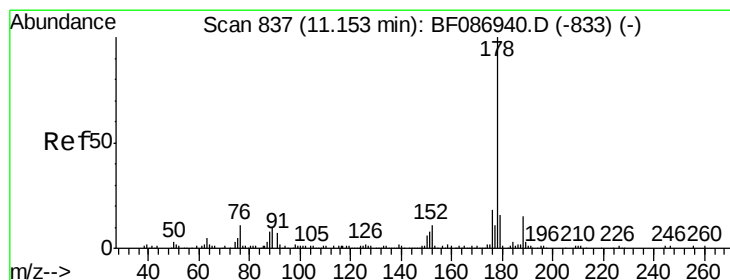
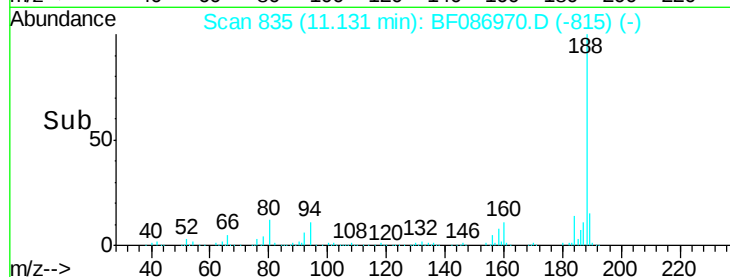
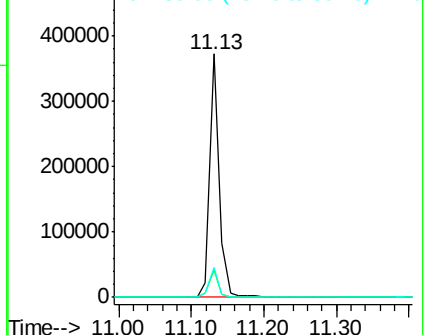
80 12.1 7.1 10.7#



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



#70

Phenanthrene

Concen: 10.55 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

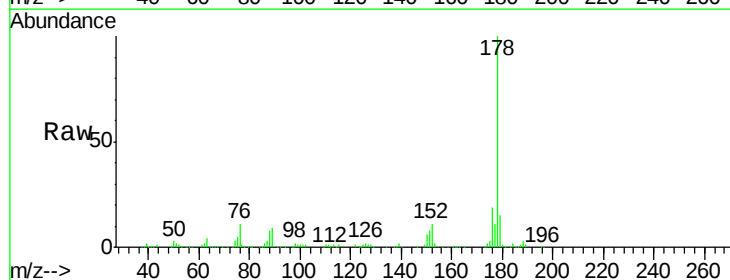
Tgt Ion:178 Resp: 192349

Ion Ratio Lower Upper

178 100

176 19.3 16.0 24.0

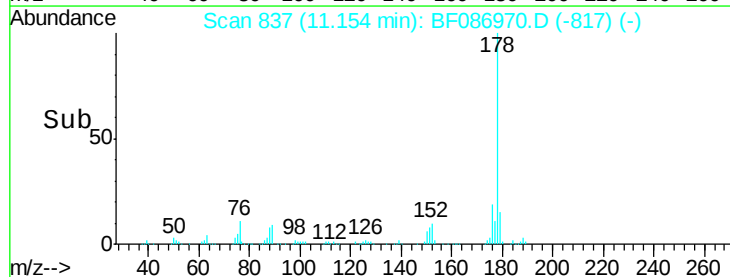
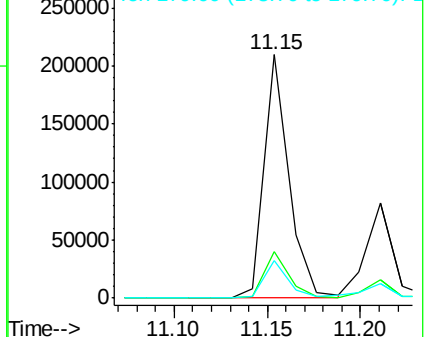
179 15.2 12.6 18.8

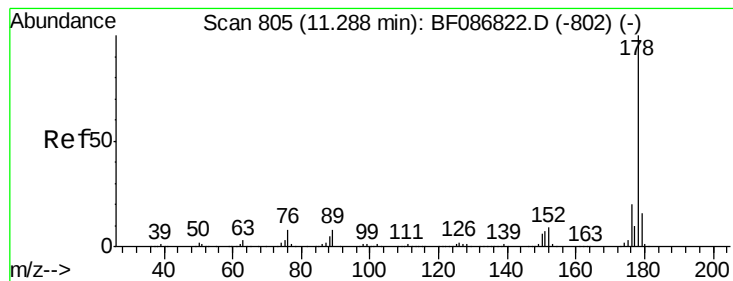


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 4.67 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

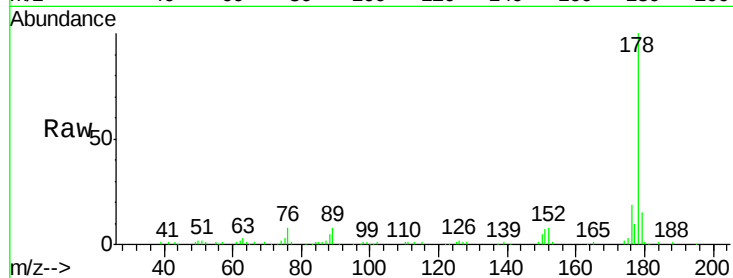
Tot Ion:178 Resp: 87105

Ion Ratio Lower Upper

178 100

176 18.8 15.6 23.4

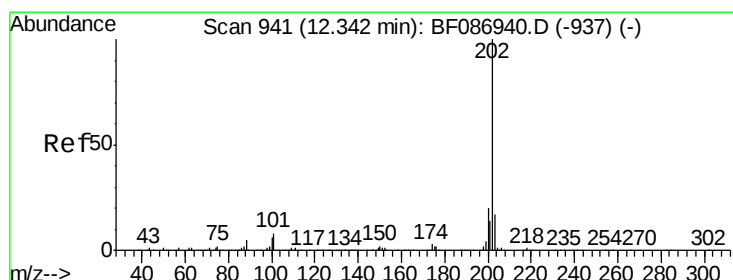
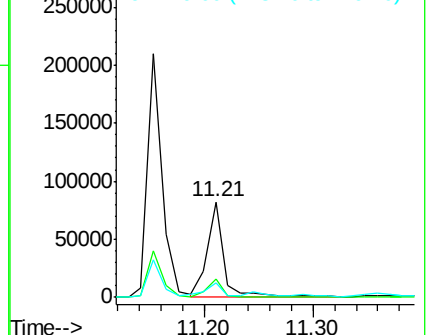
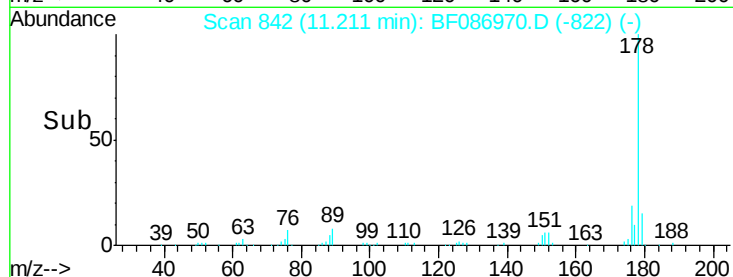
179 15.3 12.7 19.1



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: 25.58 ng

RT: 12.34 min Scan# 941

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

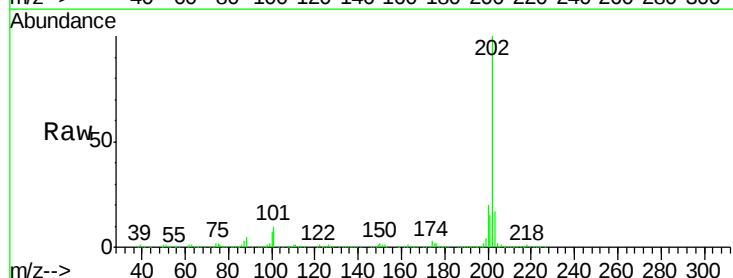
Tgt Ion:202 Resp: 479585

Ion Ratio Lower Upper

202 100

101 9.7 0.0 35.4

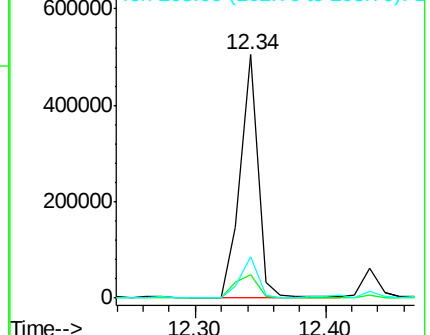
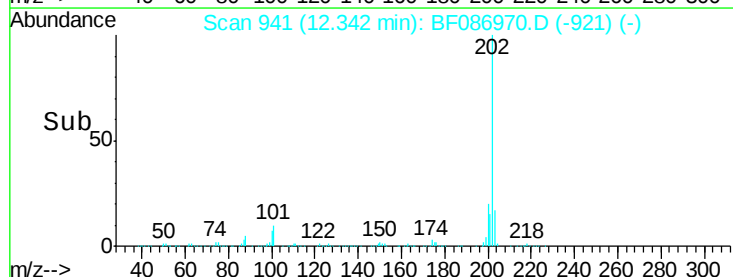
203 17.1 0.0 38.1

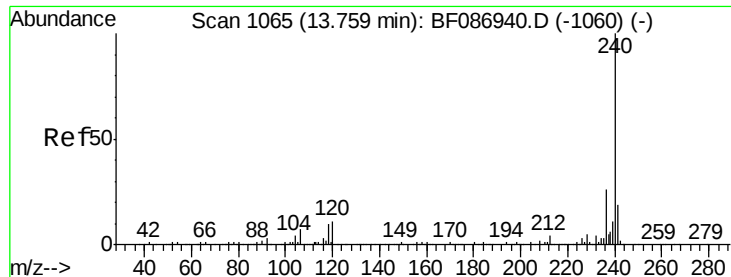


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

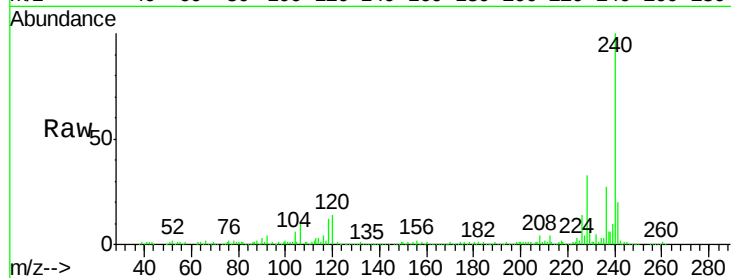
Tot Ion:240 Resp: 299495

Ion Ratio Lower Upper

240 100

120 14.2 11.2 16.8

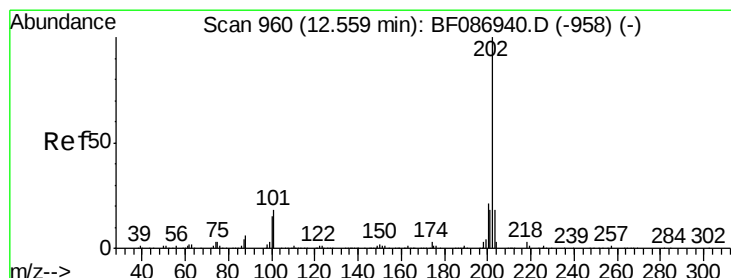
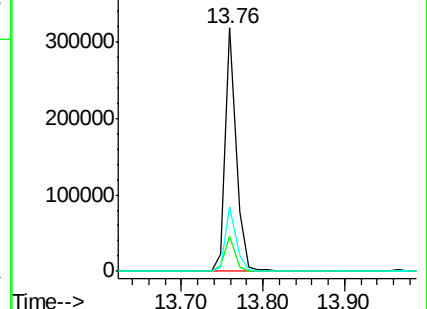
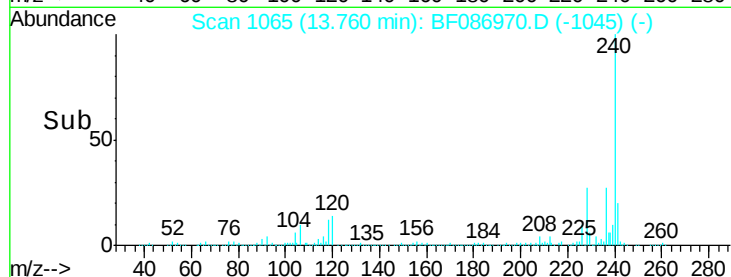
236 26.7 21.2 31.8



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: 16.48 ng

RT: 12.57 min Scan# 961

Delta R.T. -0.07 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

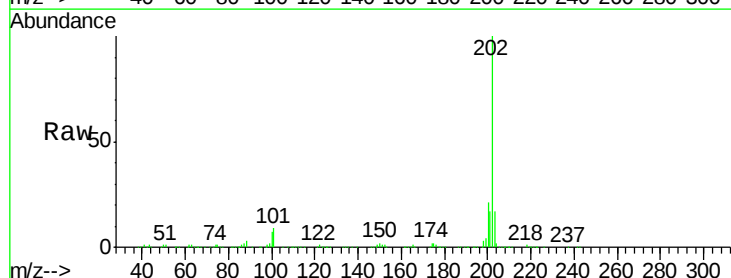
Tgt Ion:202 Resp: 377846

Ion Ratio Lower Upper

202 100

200 21.1 17.7 26.5

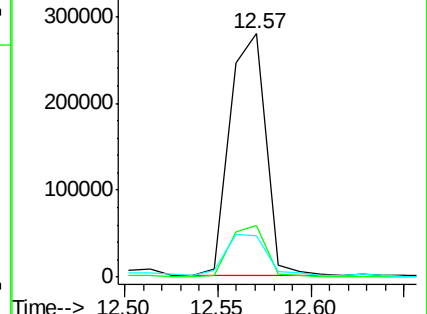
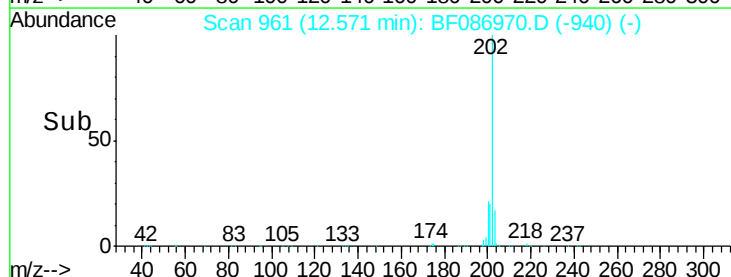
203 17.2 14.2 21.4

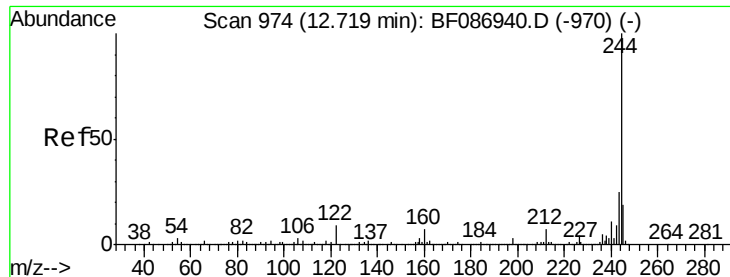


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 14.68 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampleId :

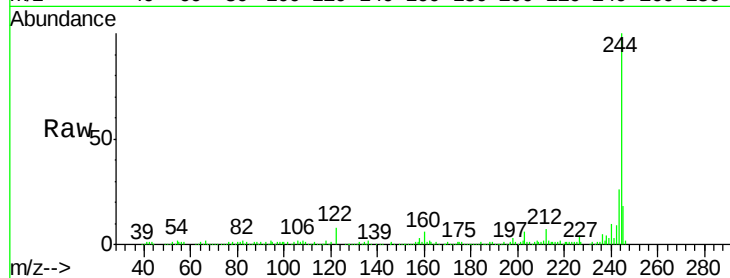
Tot Ion:244 Resp: 207270

Ion Ratio Lower Upper

244 100

212 6.8 6.2 9.2

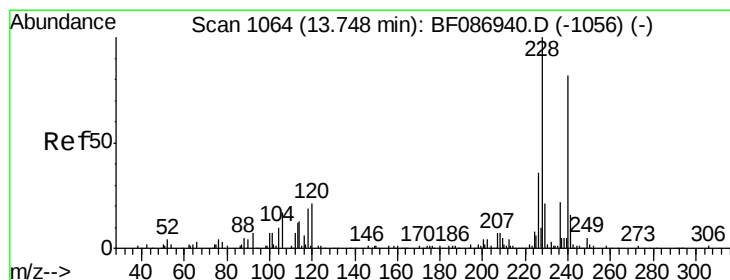
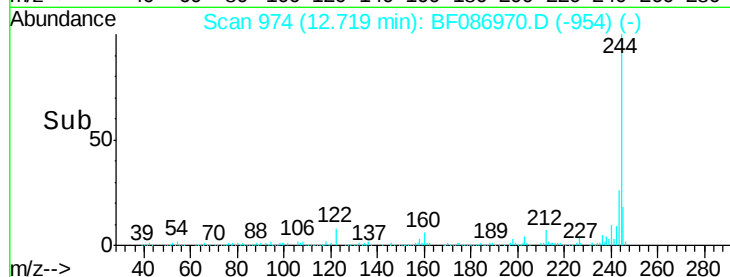
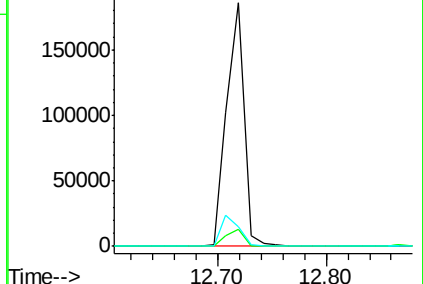
122 8.0 12.0 18.0#



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: 16.48 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.08 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

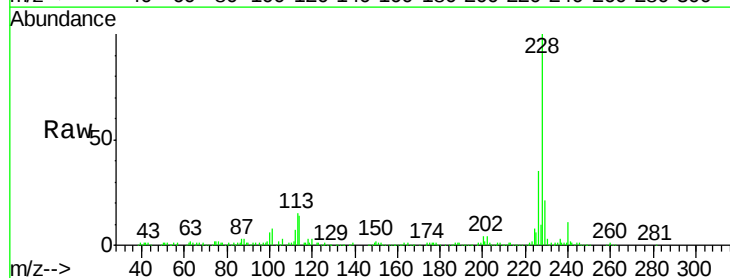
Tgt Ion:228 Resp: 277113

Ion Ratio Lower Upper

228 100

226 35.4 22.5 33.7#

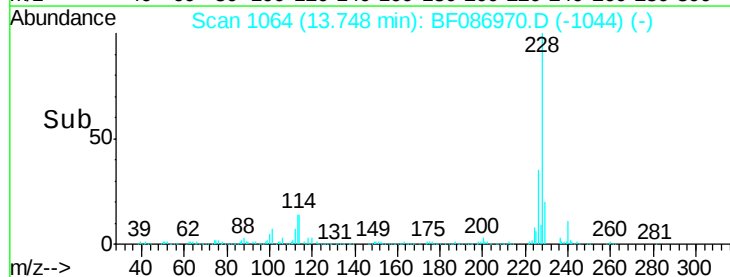
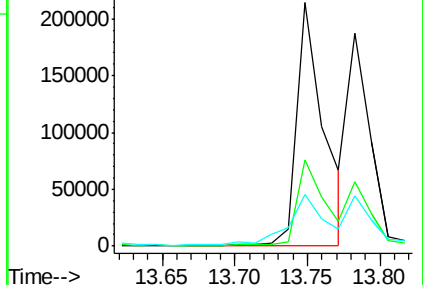
229 21.3 16.6 25.0

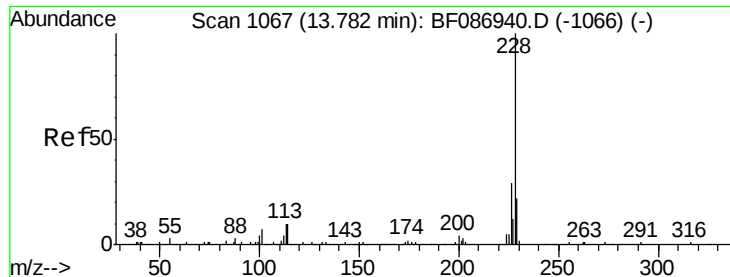


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 16.20 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.11 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

Instrument :

BNA_F

ClientSampled :

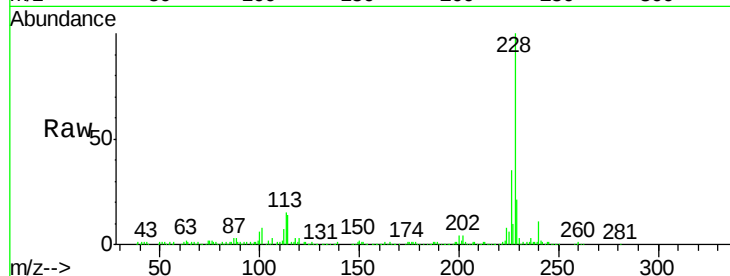
Tot Ion:228 Resp: 277113

Ion Ratio Lower Upper

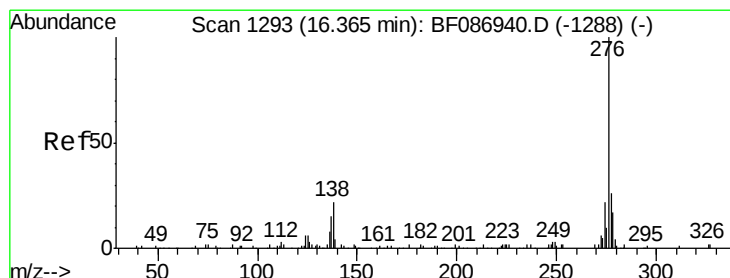
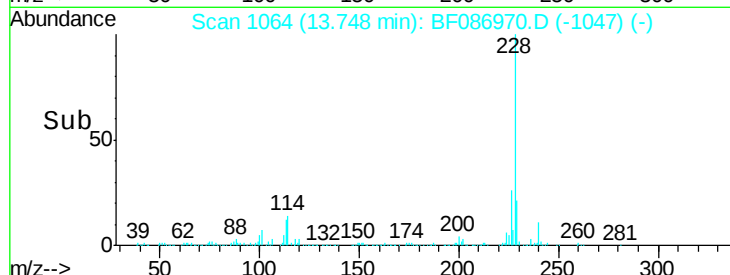
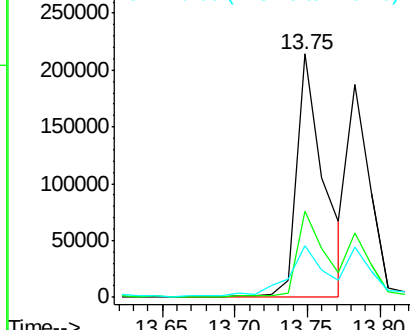
228 100

226 35.4 24.4 36.6

229 21.3 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



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.86 ng

RT: 16.38 min Scan# 1294

Delta R.T. -0.12 min

Lab File: BF086970.D

Acq: 13 May 2016 12:28

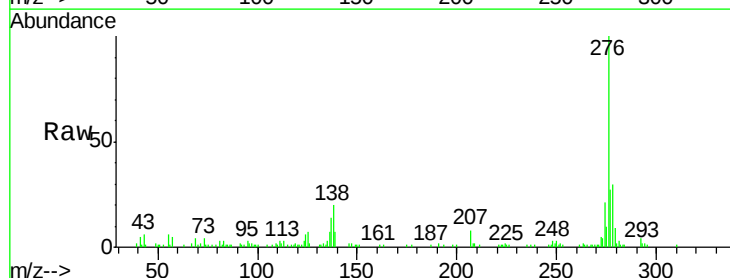
Tgt Ion:276 Resp: 83324

Ion Ratio Lower Upper

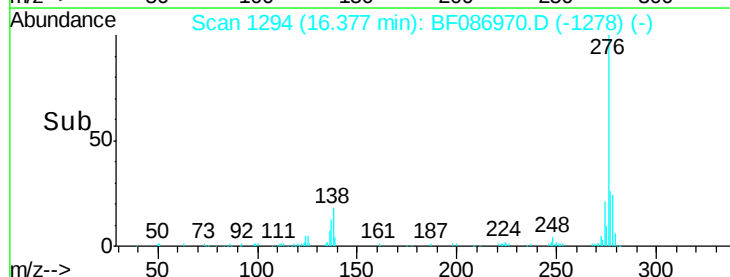
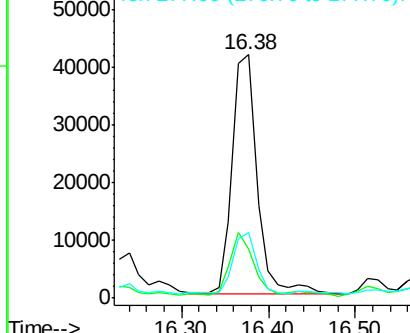
276 100

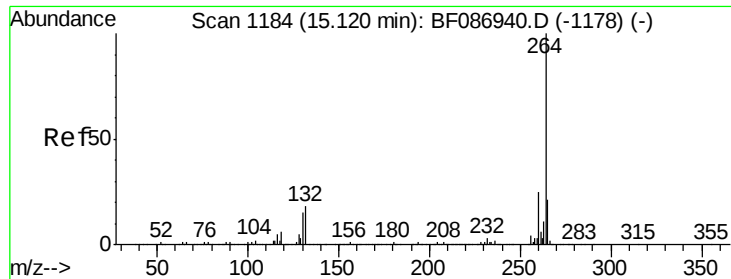
138 25.0 25.6 38.4#

277 24.2 20.5 30.7



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



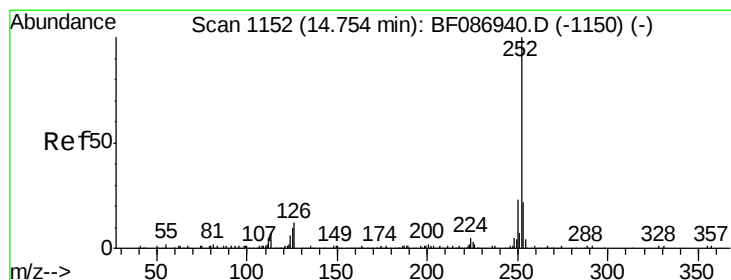
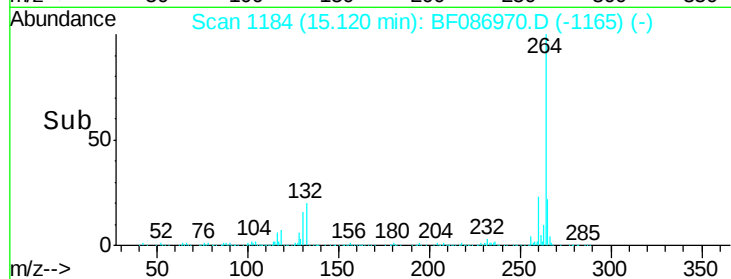
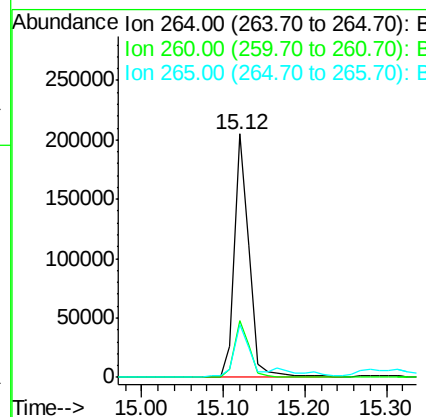
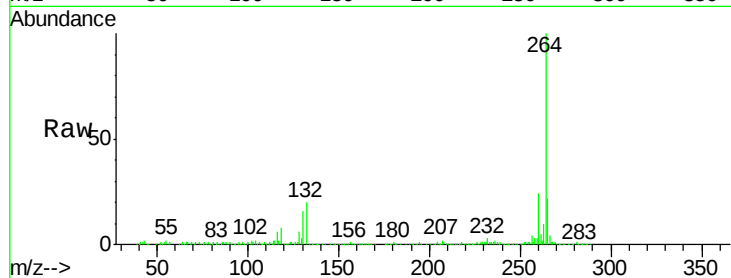


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. -0.09 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Instrument :
BNA_F
ClientSampled :

Tot Ion:264 Resp: 255420

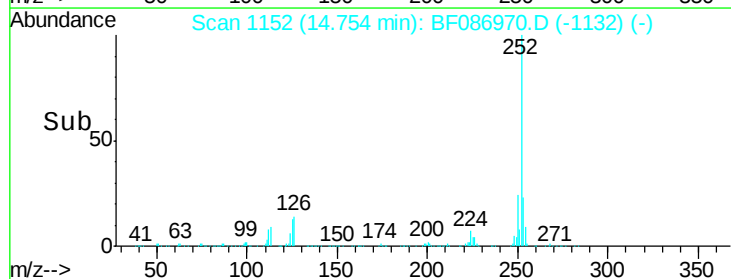
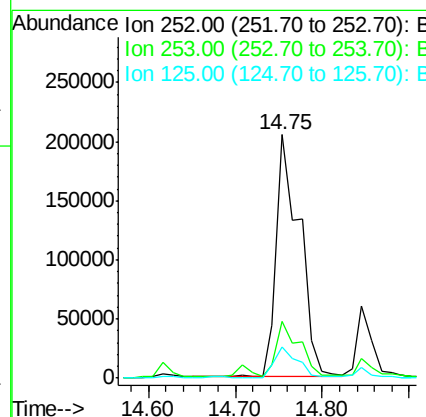
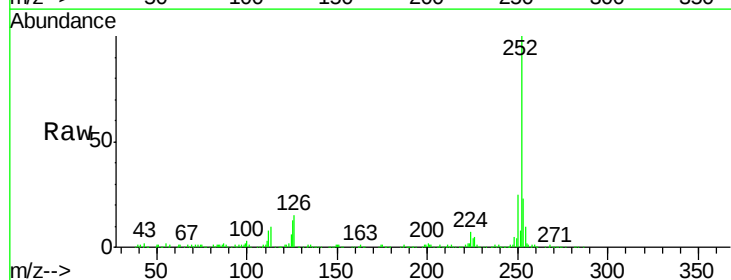
Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	21.8	17.3	25.9

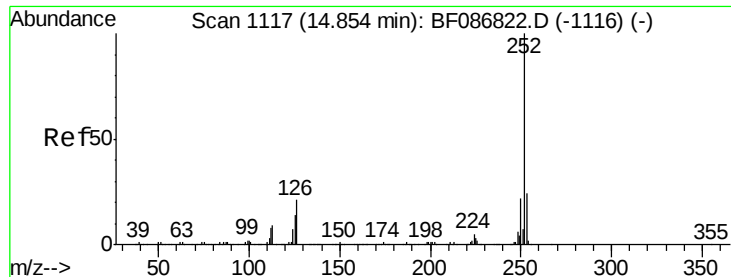


#87
Benzo(b)fluoranthene
Concen: 23.06 ng
RT: 14.75 min Scan# 1152
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:252 Resp: 382854

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	12.8	11.4	17.0

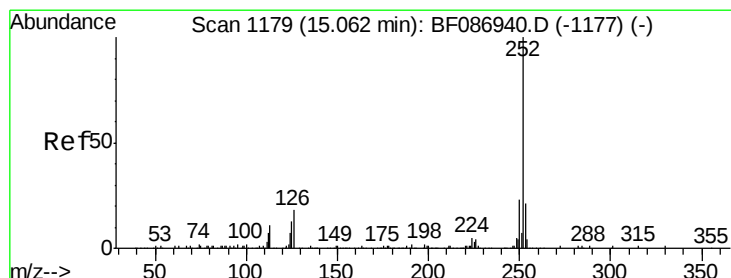
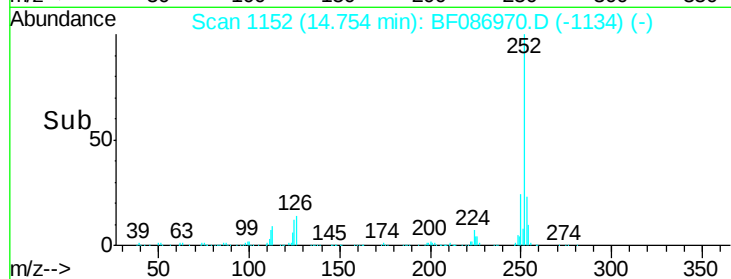
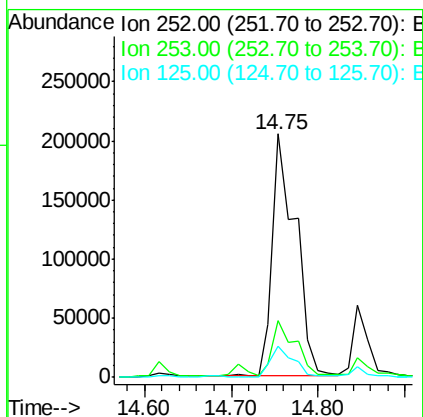
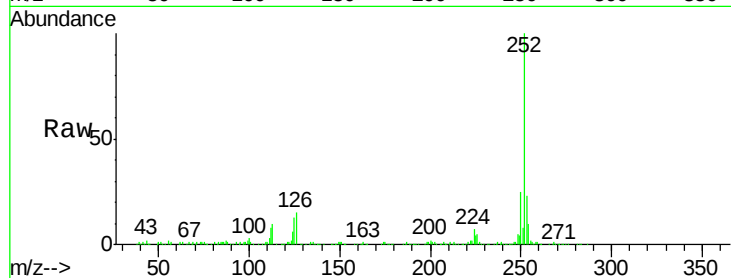




#88
Benzo(k)fluoranthene
Concen: 28.17 ng
RT: 14.75 min Scan# 1152
Delta R.T. -0.10 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

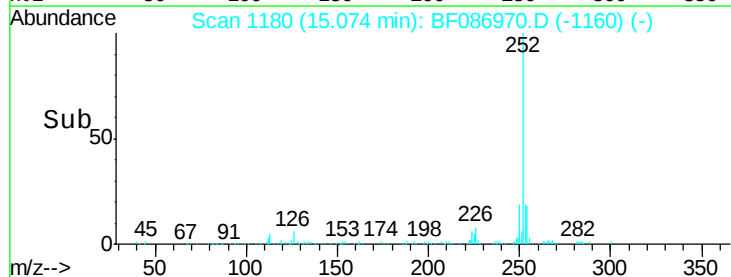
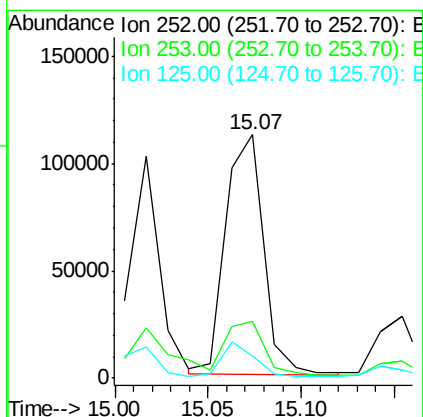
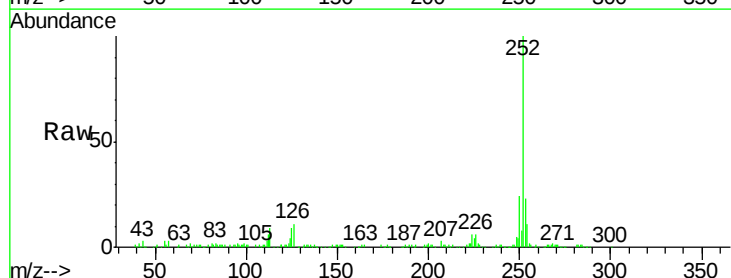
Instrument :
BNA_F
ClientSampleId :

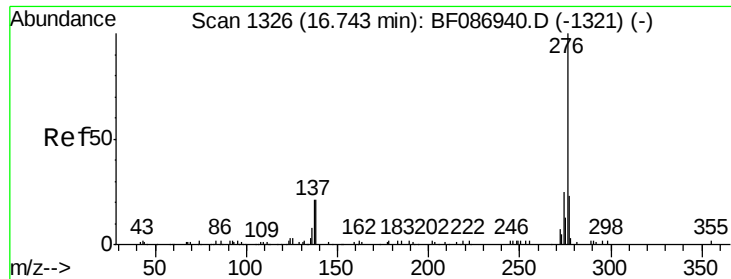
Tot Ion:252 Resp: 382854
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.6
125 12.8 9.1 13.7



#89
Benzo(a)pyrene
Concen: 11.13 ng
RT: 15.07 min Scan# 1180
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:252 Resp: 159406
Ion Ratio Lower Upper
252 100
253 23.2 17.2 25.8
125 9.3 9.0 13.6

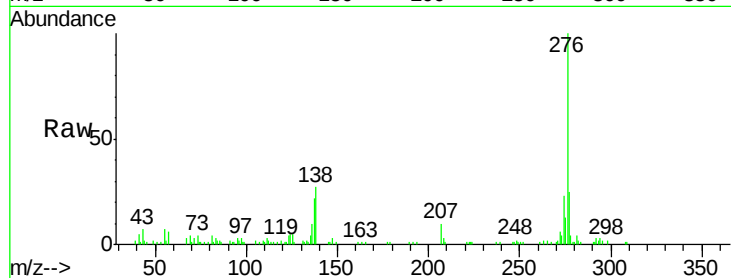




#91
 Benzo(a,h,i)perylene
 Concen: 5.36 ng
 RT: 16.74 min Scan# 1326
 Delta R.T. -0.15 min
 Lab File: BF086970.D
 Acq: 13 May 2016 12:28

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.6	29.4
138	27.1	23.6	35.4



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

