

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111815\
 Data File : BF083036.D
 Acq On : 19 Nov 2015 4:45
 Operator : UM/IZ
 Sample : G4436-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

Manual Integrations
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 11/19/2015 6:45:15 PM

Quant Time: Nov 19 13:25:52 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 18 13:32:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	115397	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	451179	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	205685	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	330924	20.00	ng	0.00
75) Chrysene-d12	13.91	240	259281	20.00	ng	0.01
86) Perylene-d12	15.29	264	223980	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.34	112	950707	128.19	ng	0.01
7) Phenol-d6	6.38	99	1249024	126.68	ng	-0.01
23) Nitrobenzene-d5	7.30	82	753243	72.64	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	214973	91.15	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	1225295	85.38	ng	0.00
78) Terphenyl-d14	12.84	244	741140	67.80	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.04	128	138871	5.58	ng	98
37) 2-Methylnaphthalene	8.74	142	54529m	3.39	ng	
48) Acenaphthylene	9.63	152	470853	21.82	ng	98
49) Dimethylphthalate	9.49	163	322303	19.13	ng	99
51) Acenaphthene	9.80	154	164325	12.02	ng	98
54) Dibenzofuran	9.97	168	152344	8.26	ng	93
57) Fluorene	10.32	166	249447	16.71	ng	97
70) Phenanthrene	11.29	178	2703489	140.68	ng	98
71) Anthracene	11.33	178	893315	44.13	ng	98
72) Carbazole	11.48	167	311449	17.58	ng	98
74) Fluoranthene	12.49	202	4380226	212.40	ng	93
77) Pyrene	12.72	202	4309987	242.05	ng	96
80) Benzo(a)anthracene	13.89	228	2304289	142.12	ng	94
82) Chrysene	13.93	228	2110453m	142.11	ng	
85) Indeno(1,2,3-cd)pyrene	16.63	276	771408	60.31	ng	97
87) Benzo(b)fluoranthene	14.92	252	1996410m	138.86	ng	
88) Benzo(k)fluoranthene	14.92	252	838136m	65.72	ng	
89) Benzo(a)pyrene	15.25	252	1409807	113.18	ng	# 94
90) Dibenzo(a,h)anthracene	16.64	278	213626m	20.25	ng	
91) Benzo(g,h,i)perylene	17.03	276	667124	66.03	ng	98

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

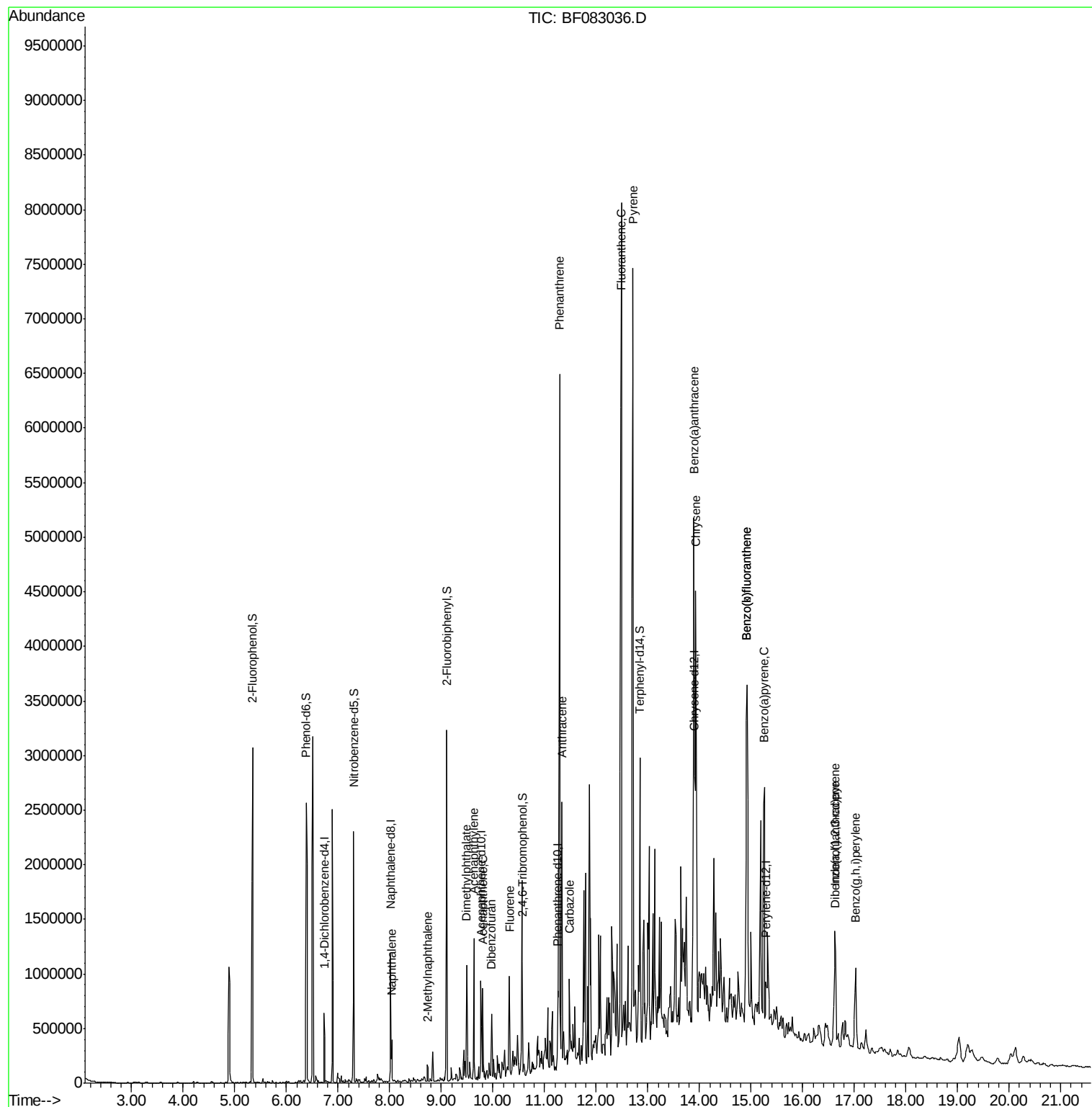
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111815\
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ALS Vial : 30 Sample Multiplier: 1

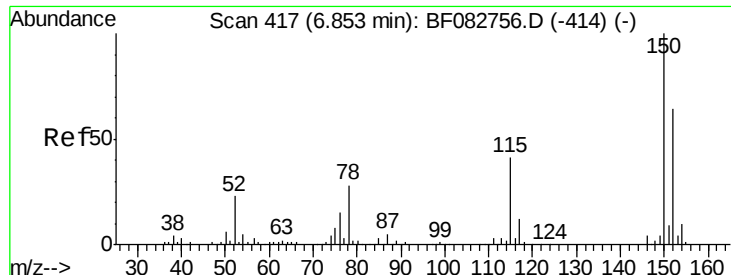
Instrument :
BNA_F
ClientSampleId :
PM-1350

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Quant Time: Nov 19 13:25:52 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 18 13:32:32 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 406

Delta R.T. -0.01 min

Lab File: BF083036.D

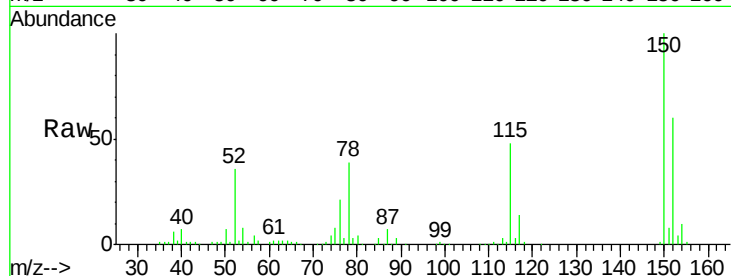
Acq: 19 Nov 2015 4:45

Instrument :

BNA_F

ClientSampleId :

PM-1350



Tgt Ion:152 Resp: 115397

Ion Ratio Lower Upper

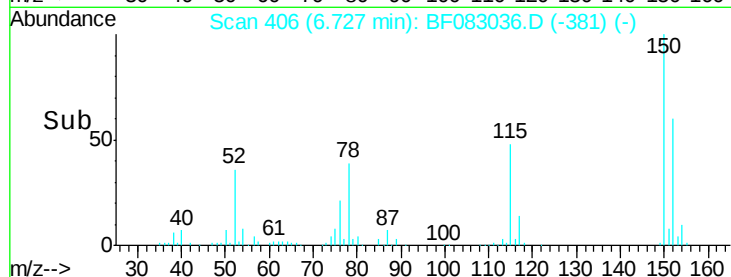
152 100

150 167.5 127.0 190.4

115 80.1 47.0 70.6#

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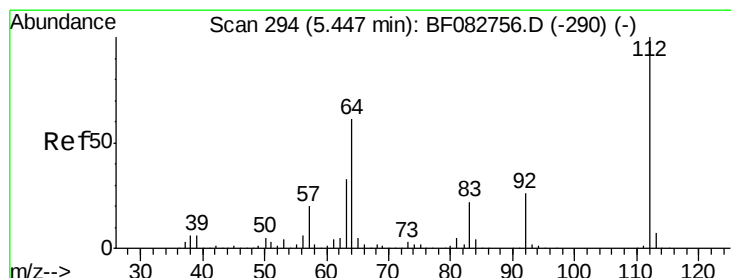
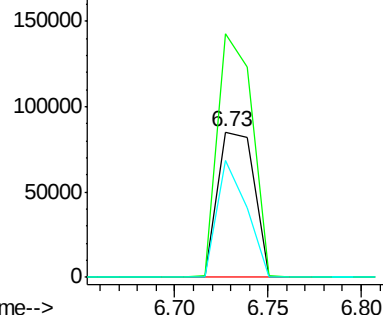
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 128.19 ng

RT: 5.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

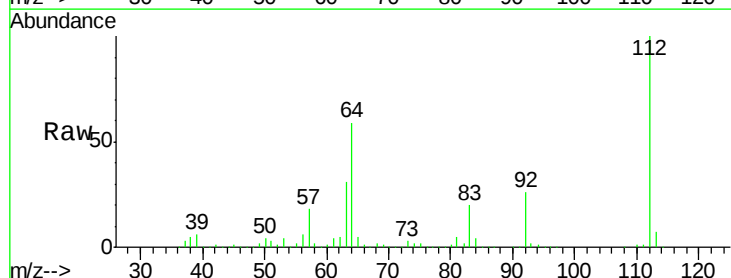
Tgt Ion:112 Resp: 950707

Ion Ratio Lower Upper

112 100

64 59.3 48.9 73.3

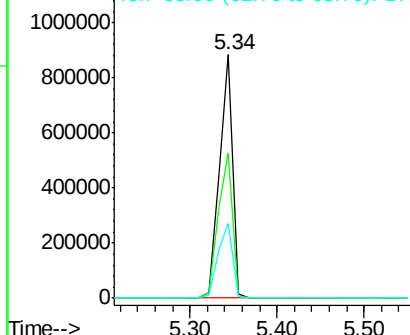
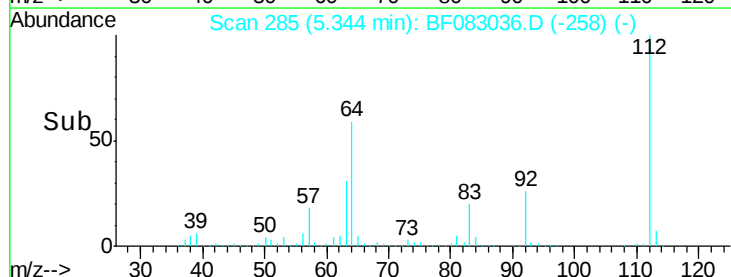
63 30.8 28.1 42.1

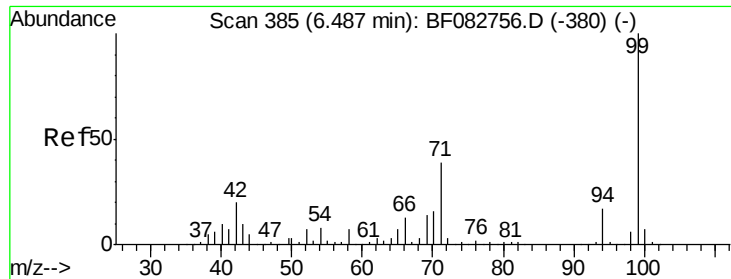


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 126.68 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Instrument :

BNA_F

ClientSampleId :

PM-1350

Tgt Ion: 99 Resp: 1249024

Ion Ratio Lower Upper

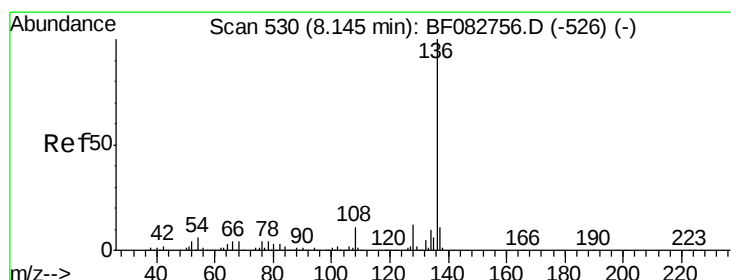
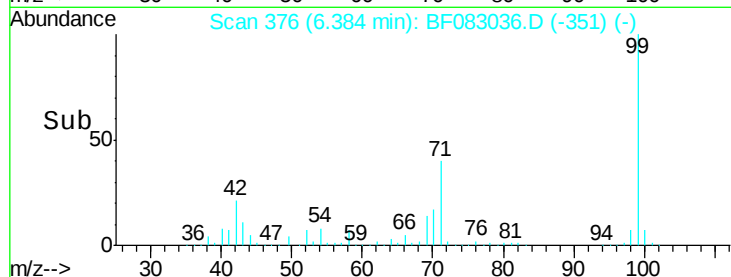
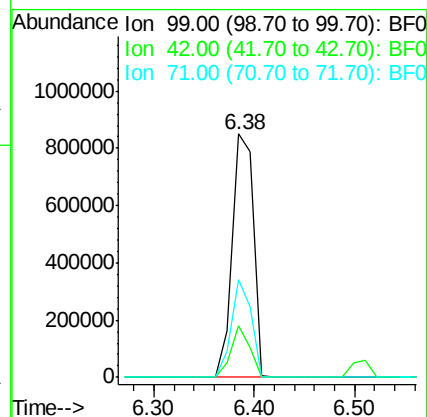
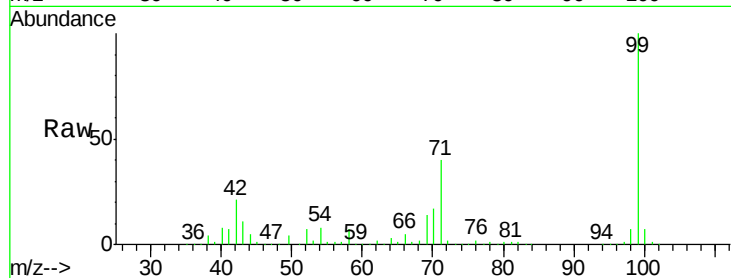
99 100

42 21.2 19.2 28.8

71 40.0 35.0 52.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 519

Delta R.T. 0.00 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Tgt Ion: 136 Resp: 451179

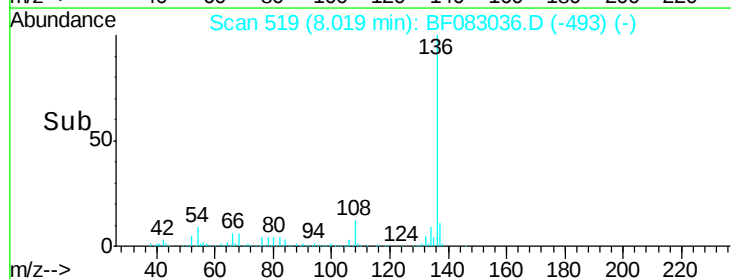
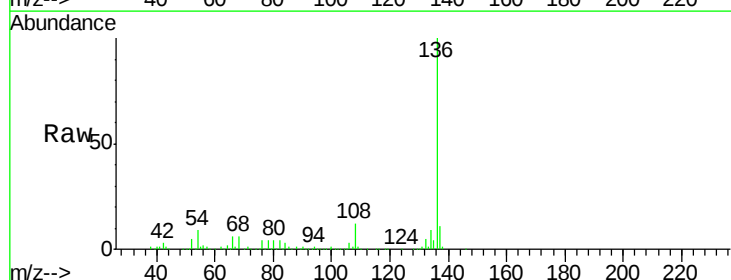
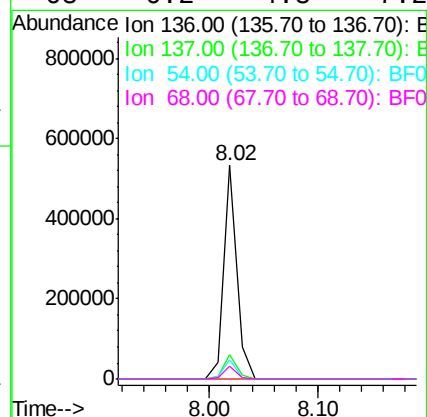
Ion Ratio Lower Upper

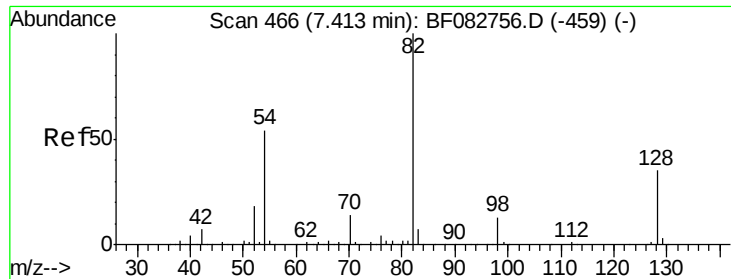
136 100

137 11.4 9.1 13.7

54 9.2 9.1 13.7

68 6.2 4.8 7.2





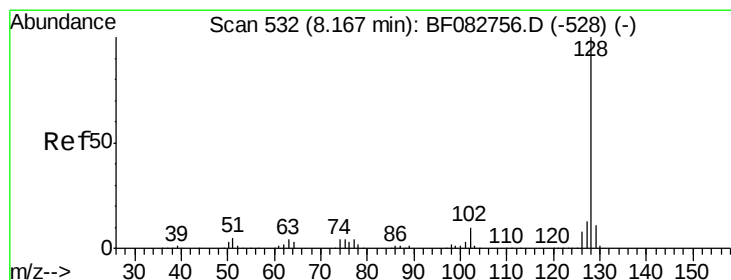
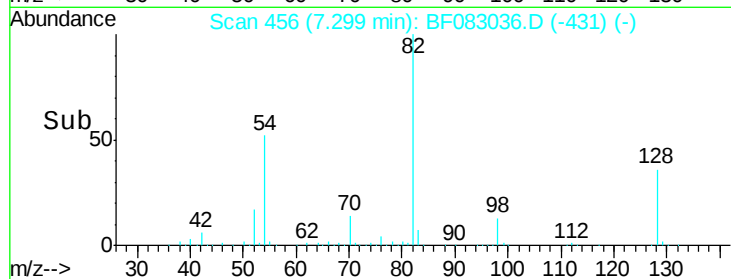
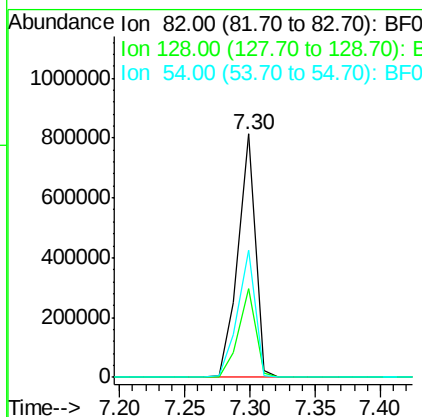
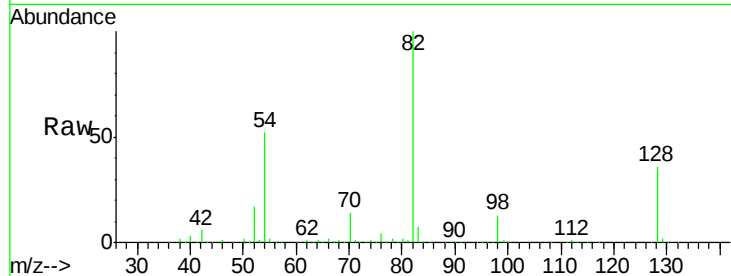
#23
Nitrobenzene-d5
Concen: 72.64 ng
RT: 7.30 min Scan# 456
Delta R.T. -0.01 min
Lab File: BF083036.D
Acq: 19 Nov 2015 4:45

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tgt Ion	Ratio	Lower	Upper
82	100		
128	36.4	26.8	40.2
54	52.2	45.7	68.5

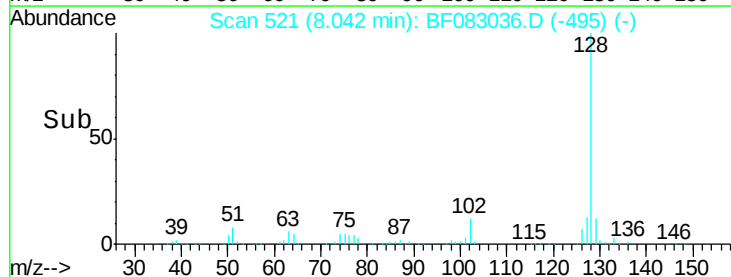
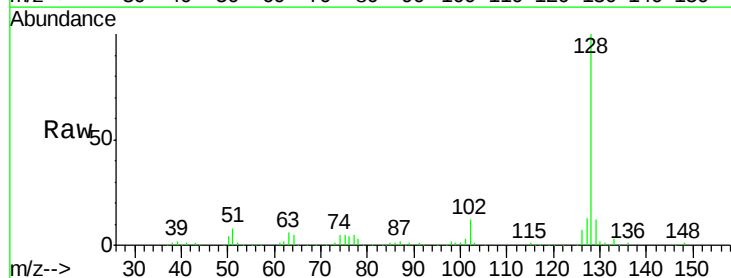
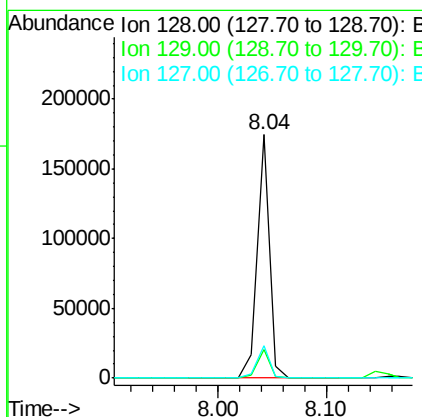
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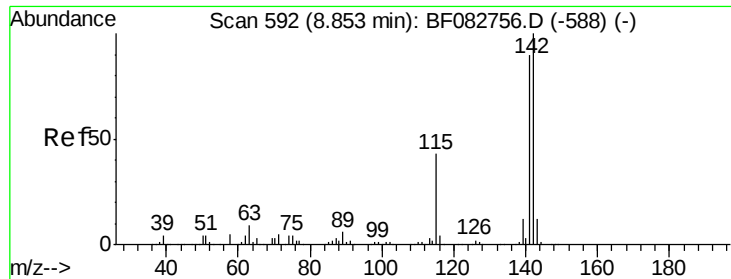
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#31
Naphthalene
Concen: 5.58 ng
RT: 8.04 min Scan# 521
Delta R.T. 0.00 min
Lab File: BF083036.D
Acq: 19 Nov 2015 4:45

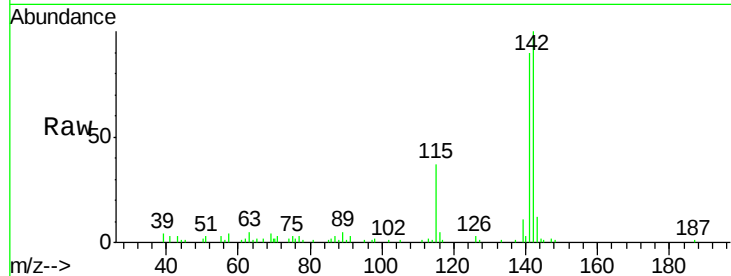
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.5	14.3
127	13.2	11.4	17.0





#37
 2-Methylnaphthalene
 Concen: 3.39 ng m
 RT: 8.74 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

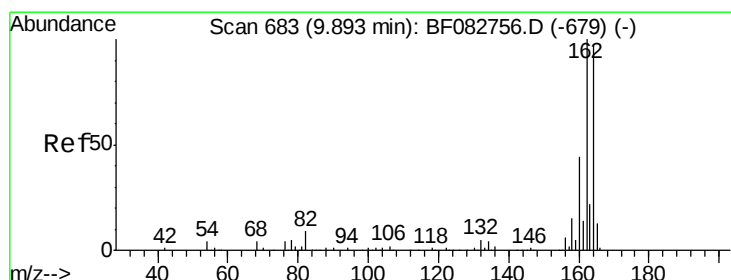
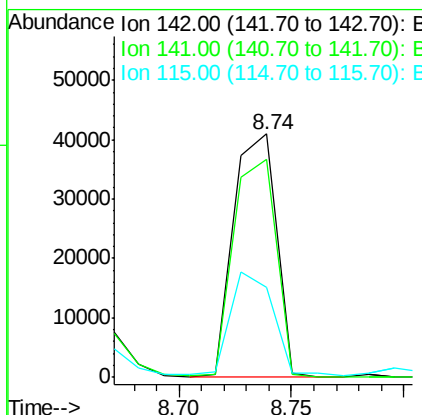
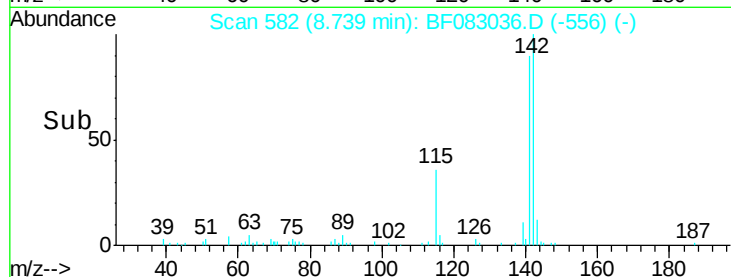
Instrument :
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 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.3	108.5
115	37.1	38.1	57.1#

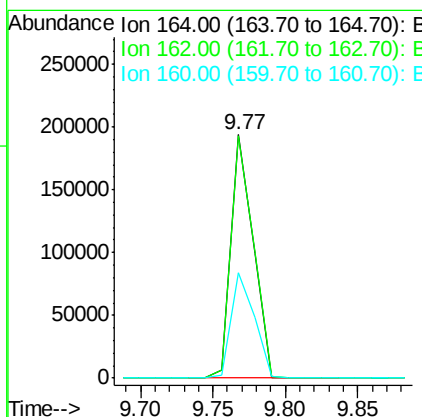
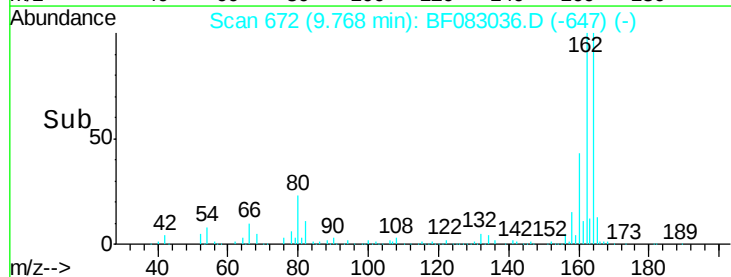
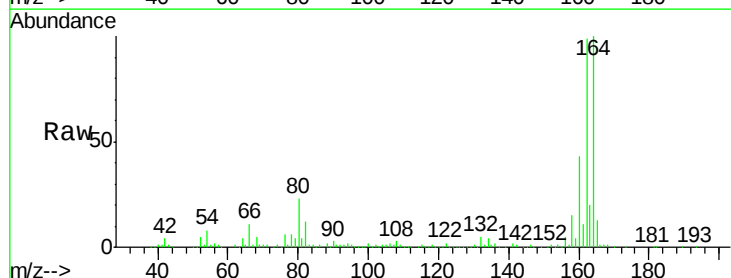
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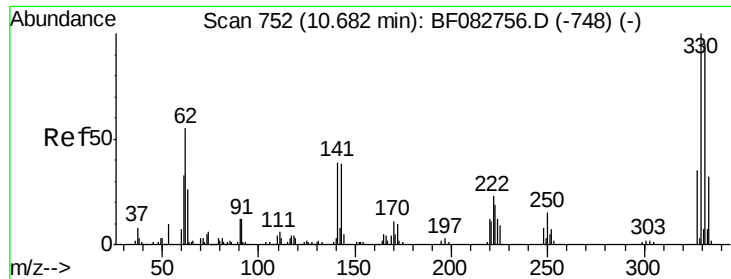
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.77 min Scan# 672
 Delta R.T. -0.01 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.4	84.9	127.3
160	43.2	37.5	56.3





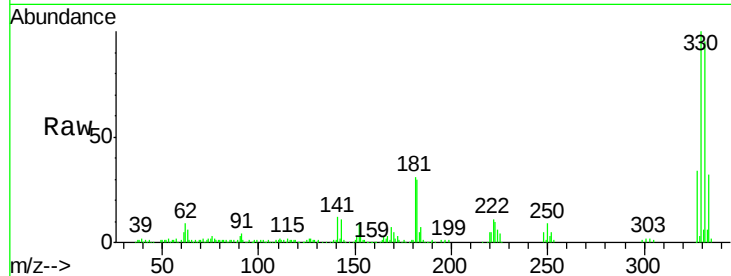
#41
 2,4,6-Tribromophenol
 Concen: 91.15 ng
 RT: 10.57 min Scan# 742
 Delta R.T. 0.00 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

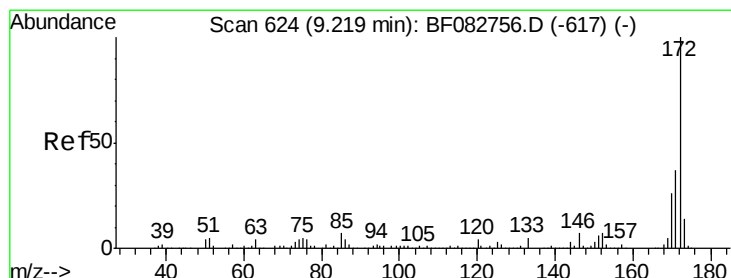
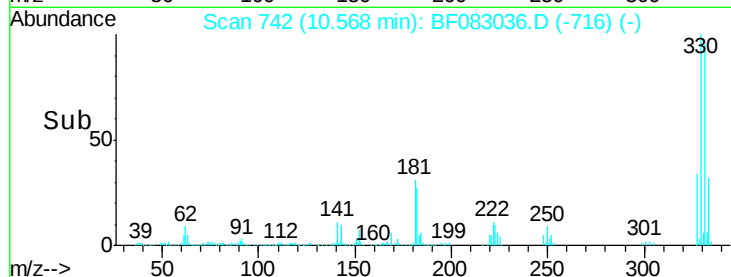
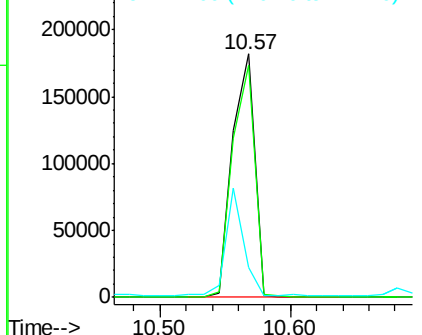
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	214973		
332	95.6	76.6	114.8	
141	36.9	41.2	61.8#	

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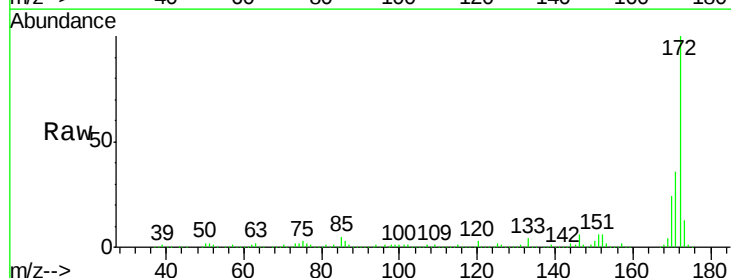


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

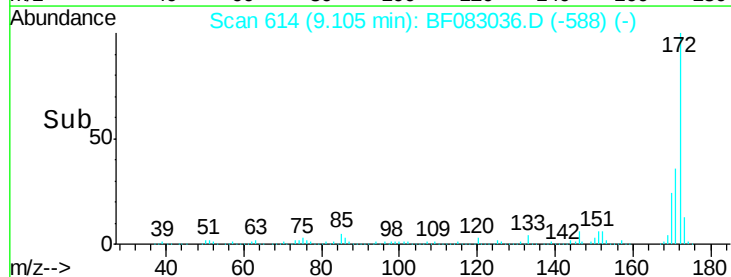
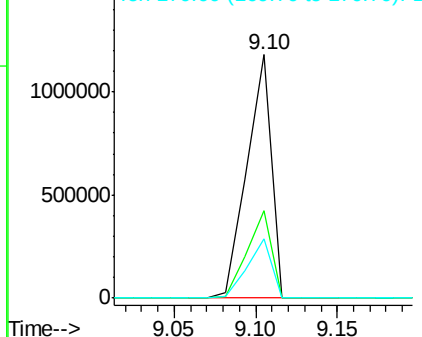


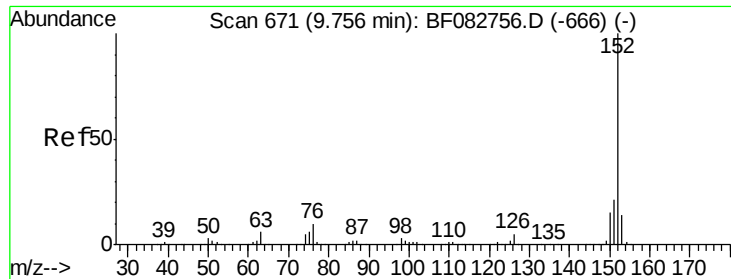
#44
 2-Fluorobiphenyl
 Concen: 85.38 ng
 RT: 9.10 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1225295		
171	36.2	30.8	46.2	
170	24.5	21.2	31.8	



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





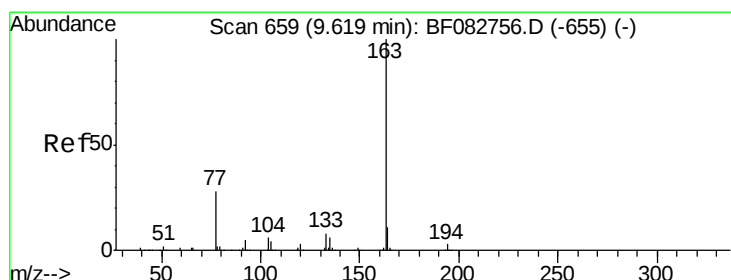
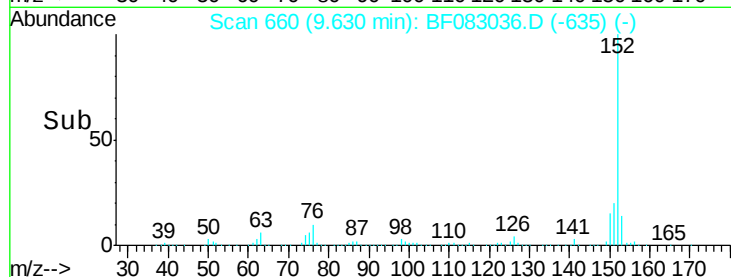
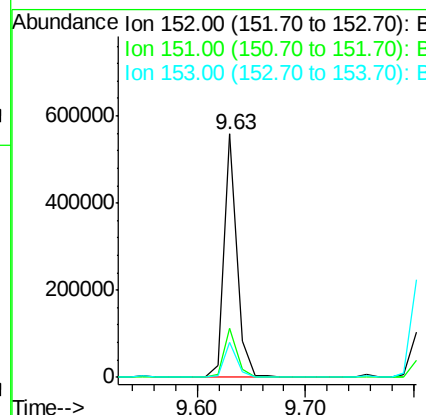
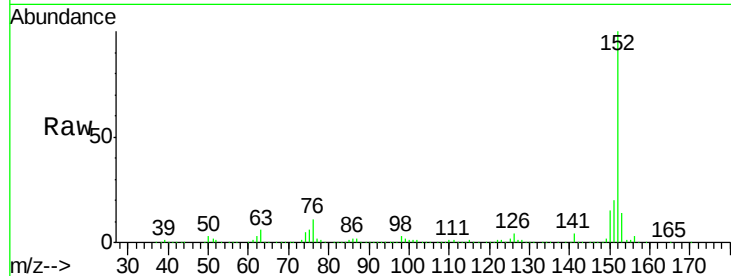
#48
 Acenaphthylene
 Concen: 21.82 ng
 RT: 9.63 min Scan# 660
 Delta R.T. -0.01 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	470853		
151	20.4	17.3	25.9	
153	14.2	11.3	16.9	

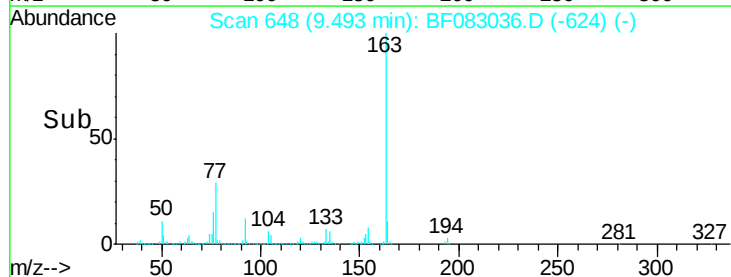
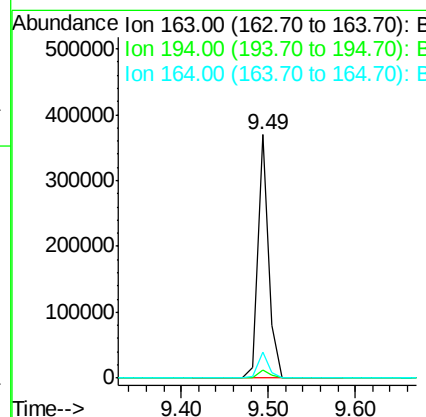
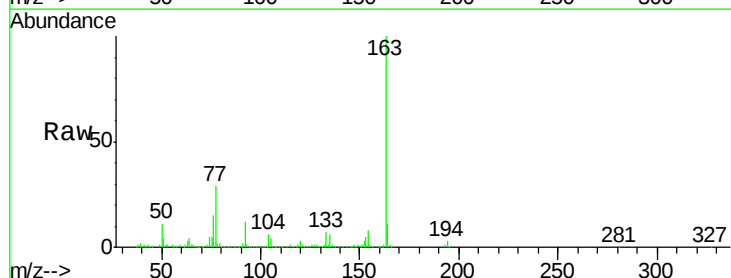
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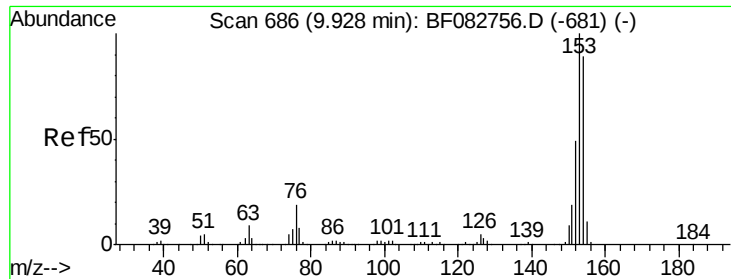
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#49
 Dimethylphthalate
 Concen: 19.13 ng
 RT: 9.49 min Scan# 648
 Delta R.T. -0.02 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	322303		
194	3.3	2.6	4.0	
164	10.5	8.7	13.1	





#51

Acenaphthene

Concen: 12.02 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.01 min

Lab File: BF083036.D

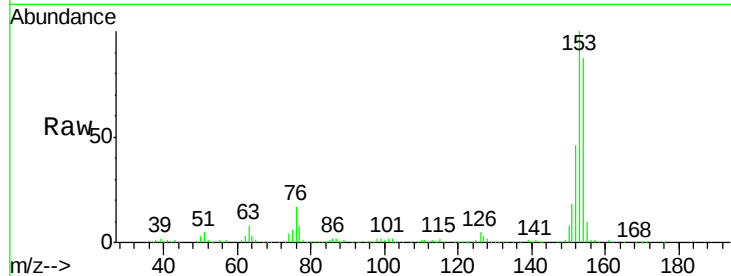
Acq: 19 Nov 2015 4:45

Instrument :

BNA_F

ClientSampleId :

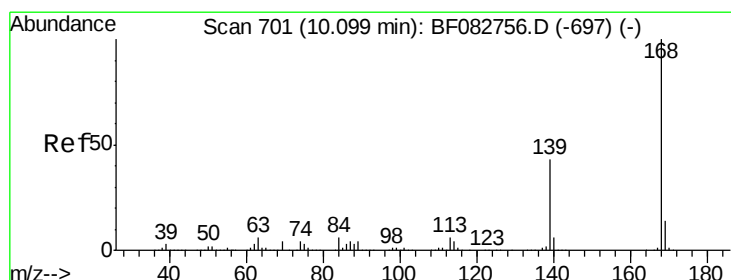
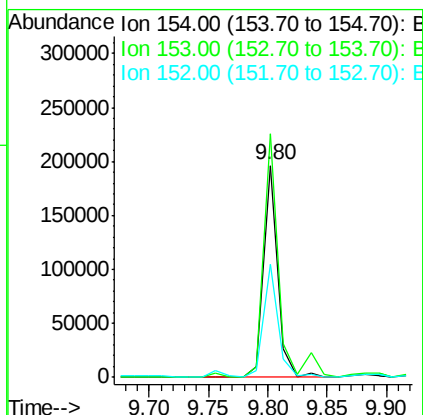
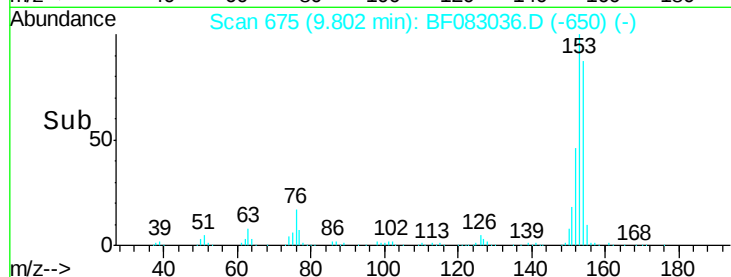
PM-1350



Tgt Ion	Ratio	Resp	Lower	Upper
154	100	164325		
153	114.8	90.1	135.1	
152	53.1	44.3	66.5	

Manual Integrations
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#54

Dibenzofuran

Concen: 8.26 ng

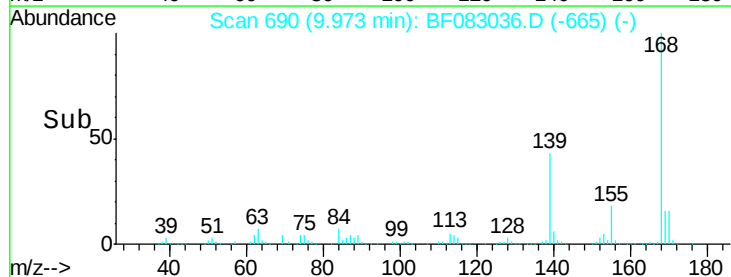
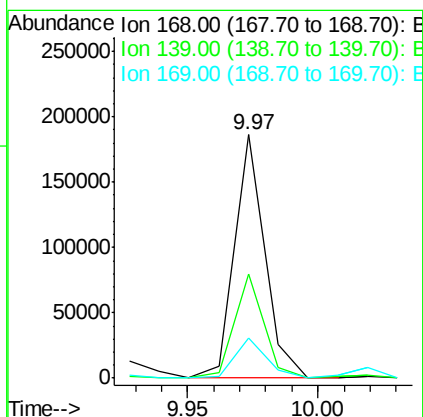
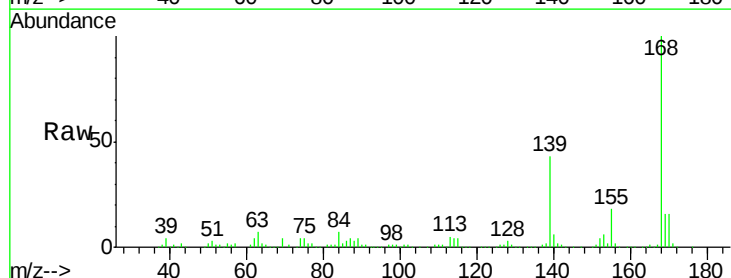
RT: 9.97 min Scan# 690

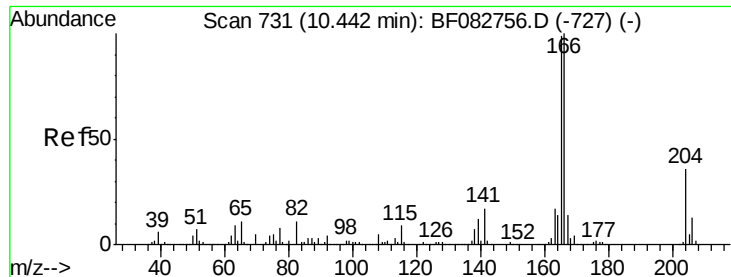
Delta R.T. -0.01 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	152344		
139	42.6	37.8	56.6	
169	16.4	11.3	16.9	





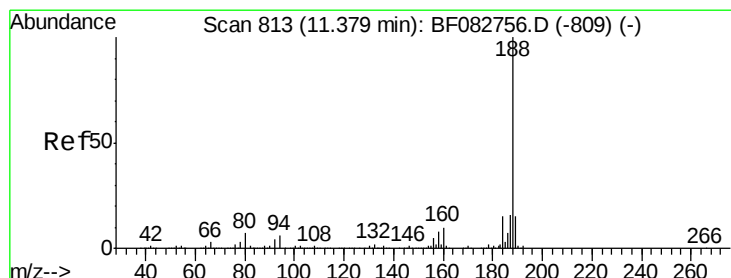
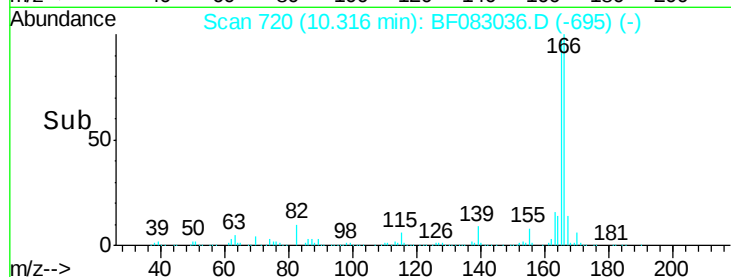
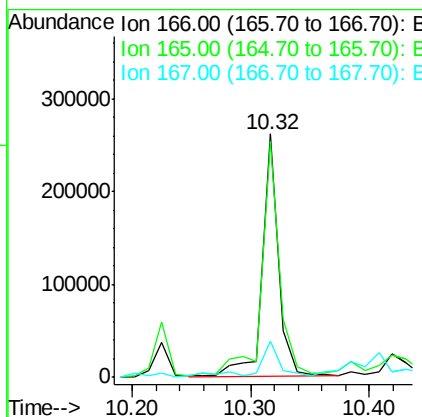
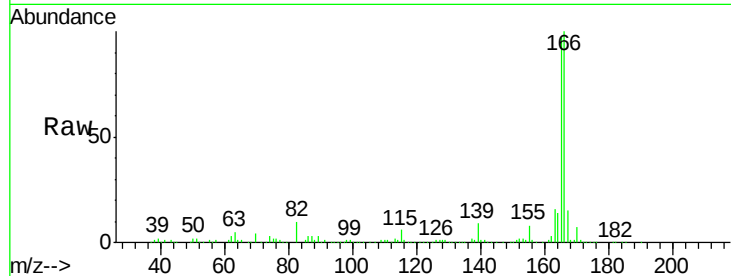
#57
Fluorene
 Concen: 16.71 ng
 RT: 10.32 min Scan# 720
 Delta R.T. -0.01 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	249447		
165	96.9	80.2	120.4	
167	14.9	11.2	16.8	

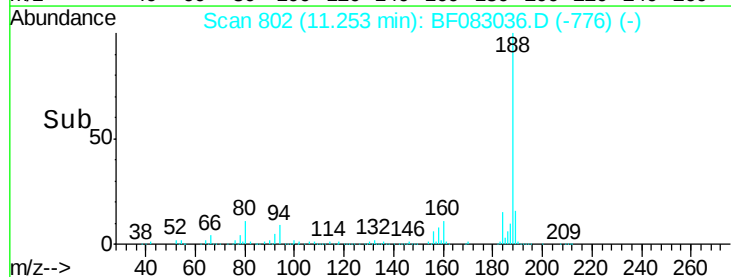
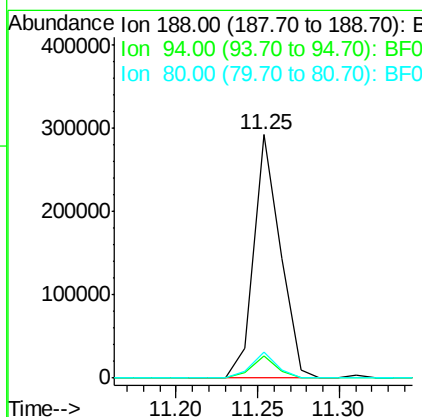
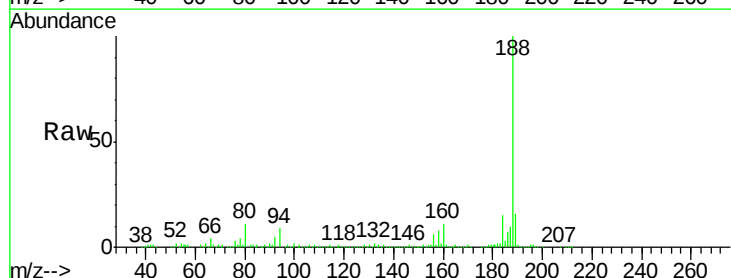
Manual Integrations
 APPROVED

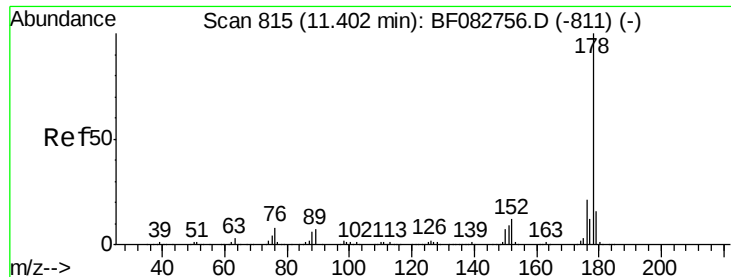
Mmdadoda
 11/19/2015 6:45:15 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.25 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	330924		
94	9.2	6.1	9.1#	
80	10.9	7.0	10.6#	





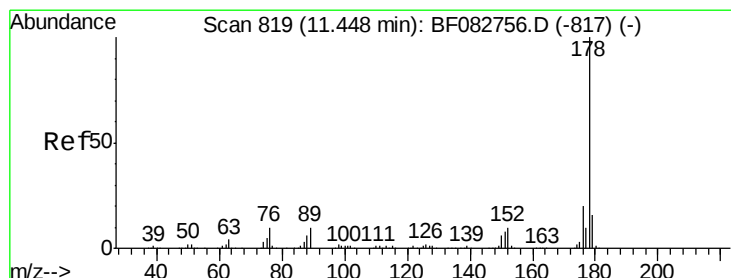
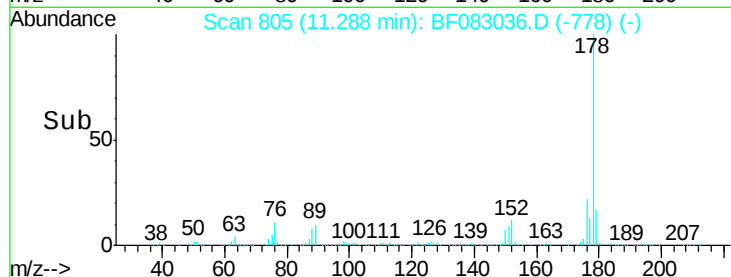
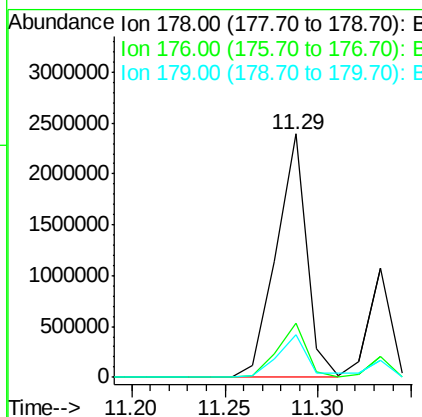
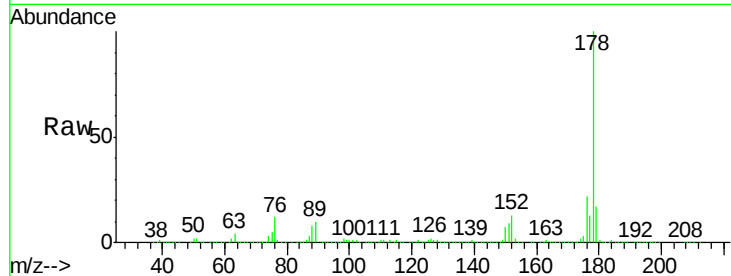
#70
Phenanthrene
Concen: 140.68 ng
RT: 11.29 min Scan# 805
Delta R.T. 0.01 min
Lab File: BF083036.D
Acq: 19 Nov 2015 4:45

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tgt Ion:178 Resp: 2703489
Ion Ratio Lower Upper
178 100
176 22.2 17.0 25.4
179 17.4 13.4 20.0

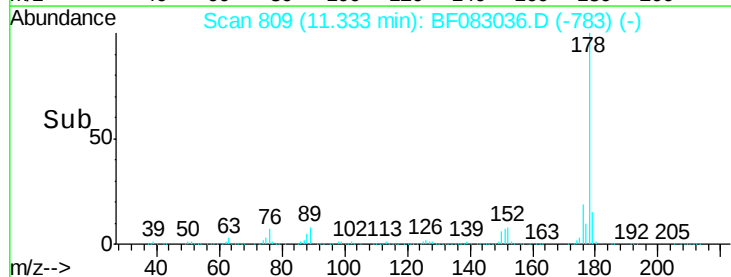
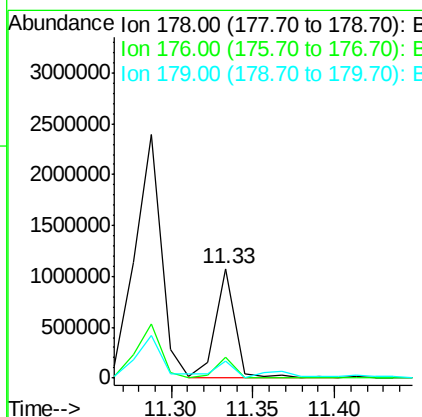
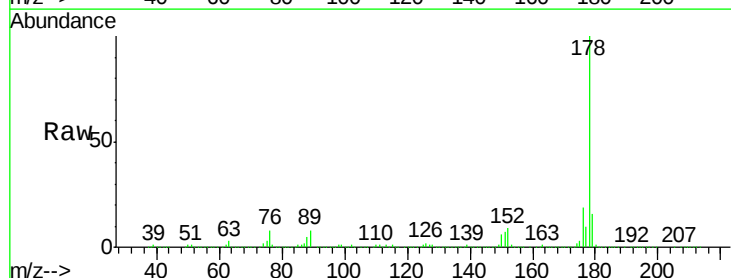
Manual Integrations
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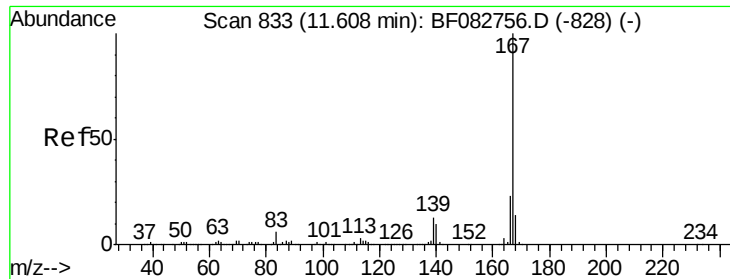
Mmdadoda
11/19/2015 6:45:15 PM



#71
Anthracene
Concen: 44.13 ng
RT: 11.33 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF083036.D
Acq: 19 Nov 2015 4:45

Tgt Ion:178 Resp: 893315
Ion Ratio Lower Upper
178 100
176 19.4 16.5 24.7
179 15.8 13.2 19.8





#72

Carbazole

Concen: 17.58 ng

RT: 11.48 min Scan# 822

Delta R.T. 0.00 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Instrument :

BNA_F

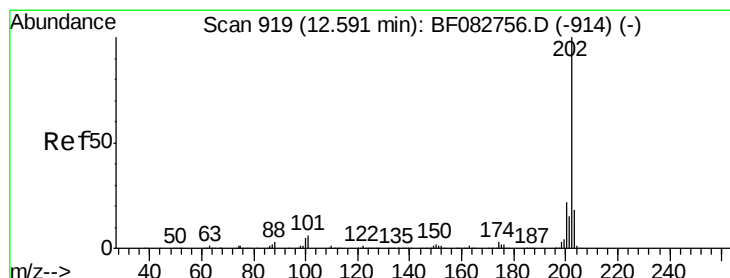
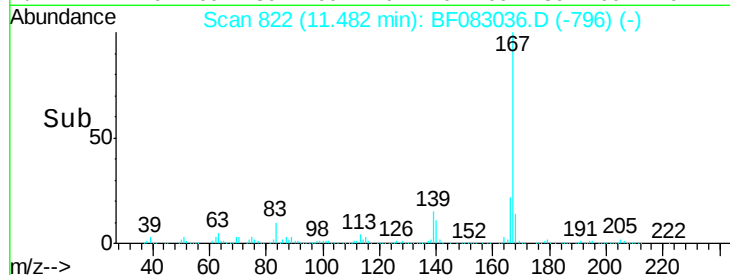
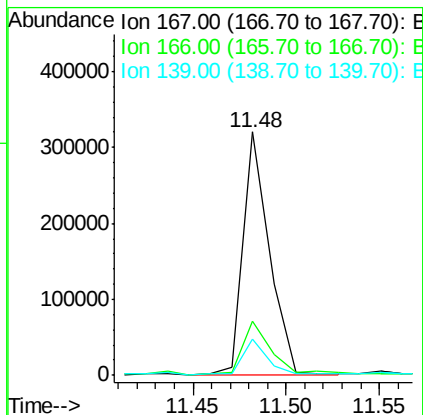
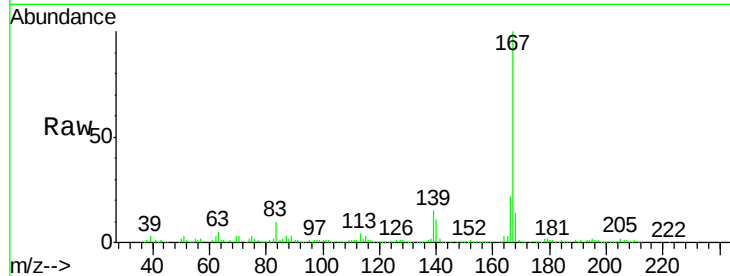
ClientSampleId :

PM-1350

Tgt Ion:	167	Resp:	311449
Ion Ratio	Lower	Upper	
167	100		
166	22.3	18.7	28.1
139	14.9	11.8	17.6

Manual Integrations
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#74

Fluoranthene

Concen: 212.40 ng

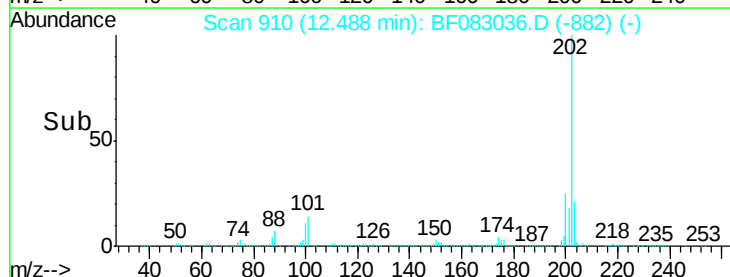
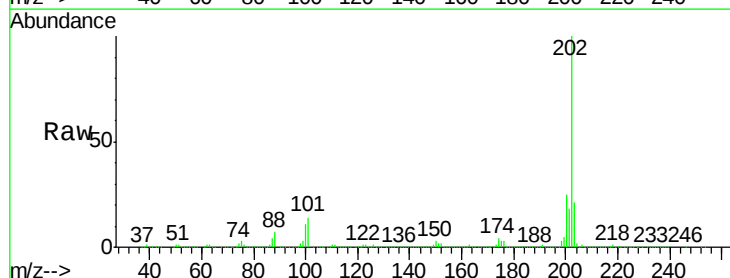
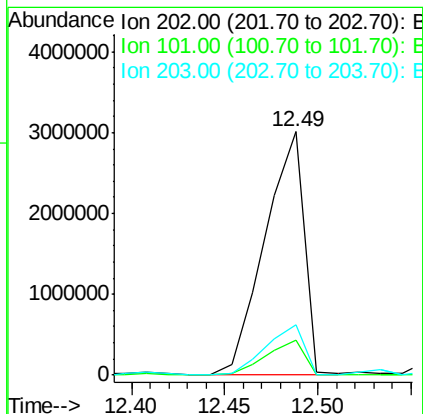
RT: 12.49 min Scan# 910

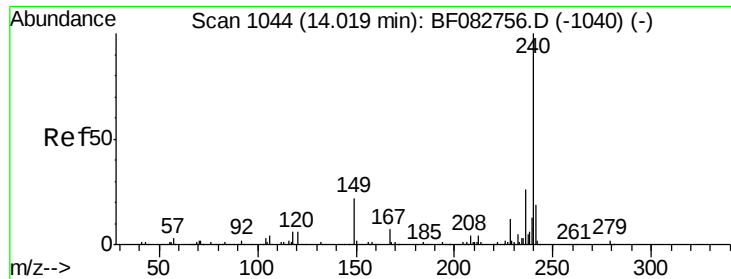
Delta R.T. 0.02 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Tgt Ion:	202	Resp:	4380226
Ion Ratio	Lower	Upper	
202	100		
101	14.5	0.0	30.5
203	20.5	0.0	38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.91 min Scan# 1034

Delta R.T. 0.01 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Instrument :

BNA_F

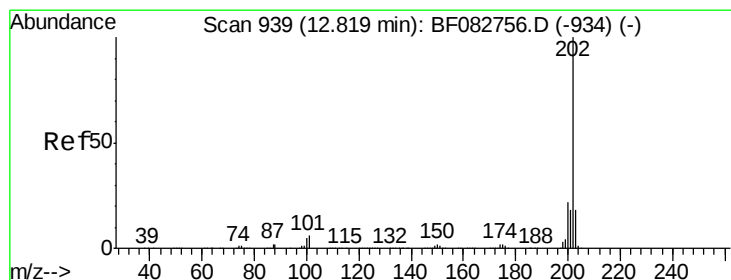
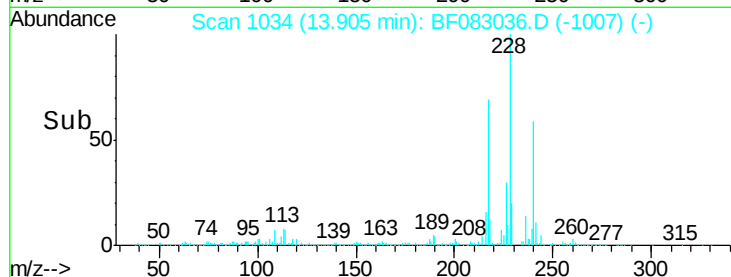
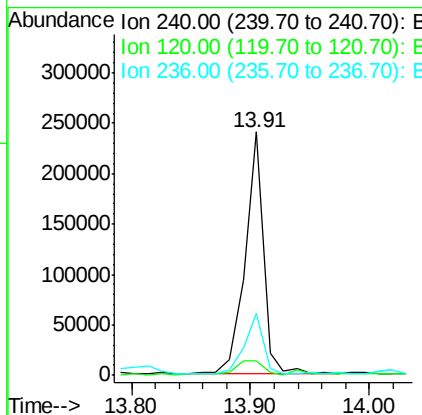
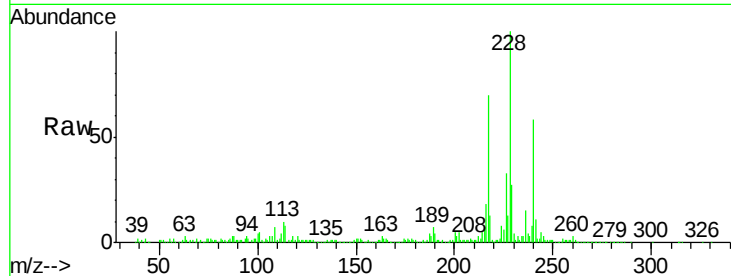
ClientSampleId :

PM-1350

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	259281		
120	6.0	10.9	16.3	#
236	25.6	21.6	32.4	

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#77

Pyrene

Concen: 242.05 ng

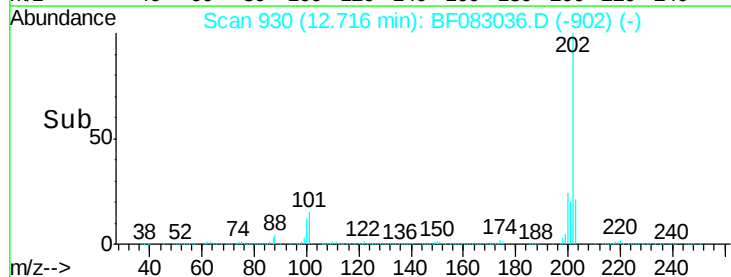
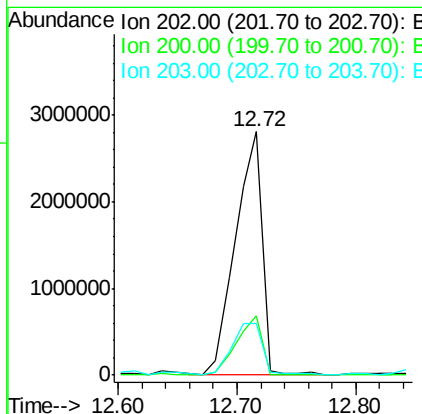
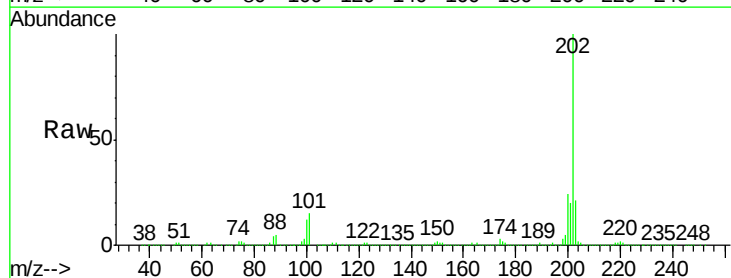
RT: 12.72 min Scan# 930

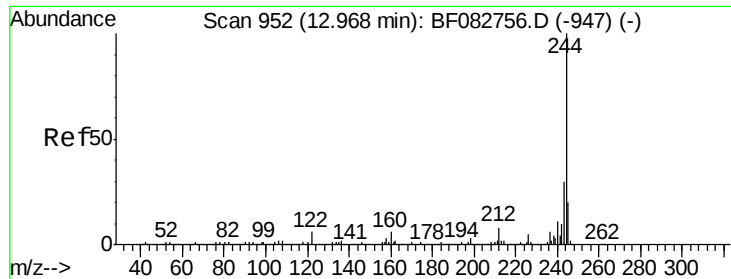
Delta R.T. 0.02 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	4309987		
200	24.4	18.7	28.1	
203	21.0	14.8	22.2	





#78

Terphenyl-d14

Concen: 67.80 ng

RT: 12.84 min Scan# 941

Delta R.T. 0.00 min

Lab File: BF083036.D

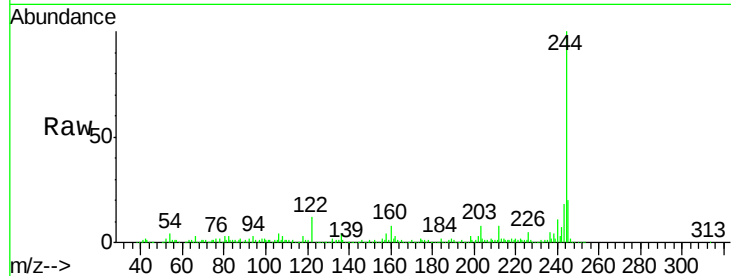
Acq: 19 Nov 2015 4:45

Instrument :

BNA_F

ClientSampleId :

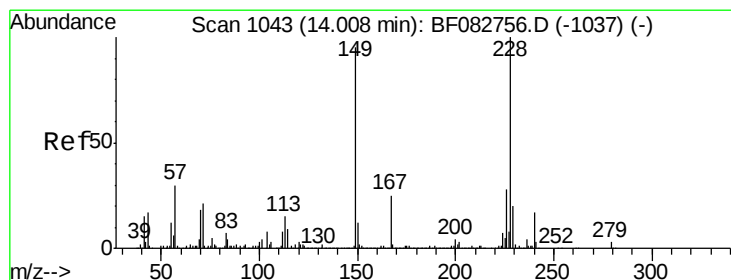
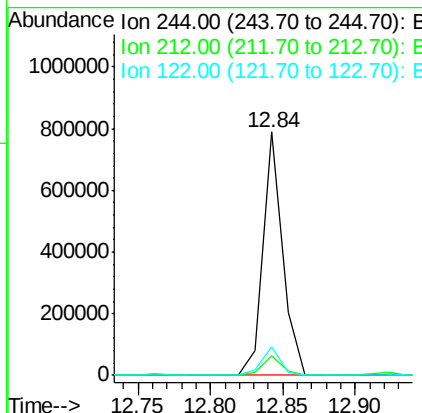
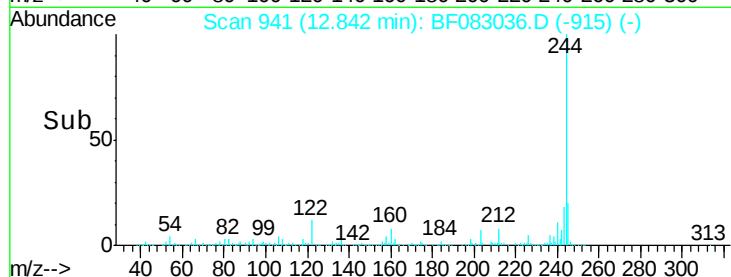
PM-1350



Tgt Ion:	244	Resp:	741140
Ion Ratio	Lower	Upper	
244	100		
212	8.2	7.6	11.4
122	12.0	11.3	16.9

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 142.12 ng

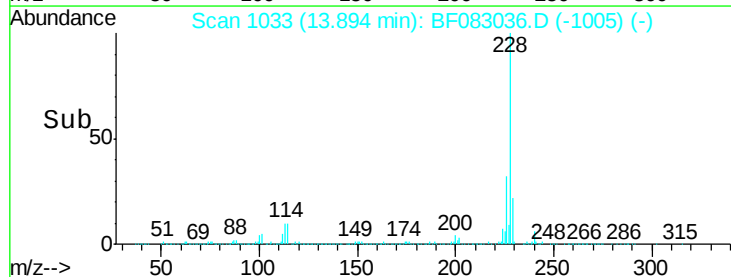
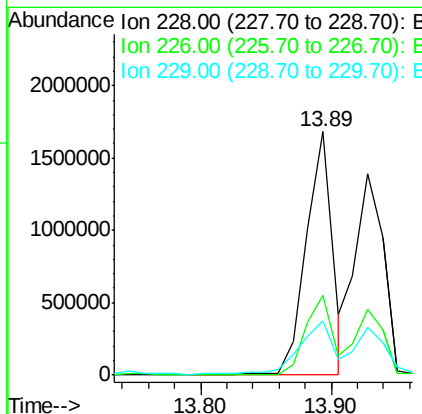
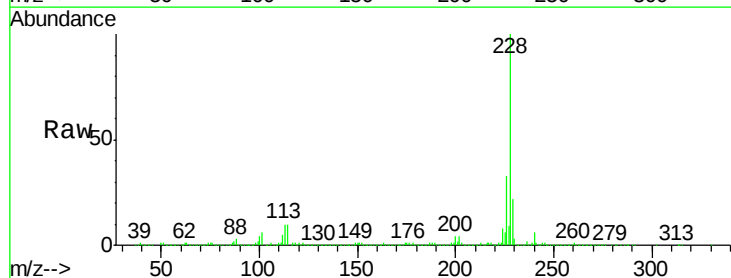
RT: 13.89 min Scan# 1033

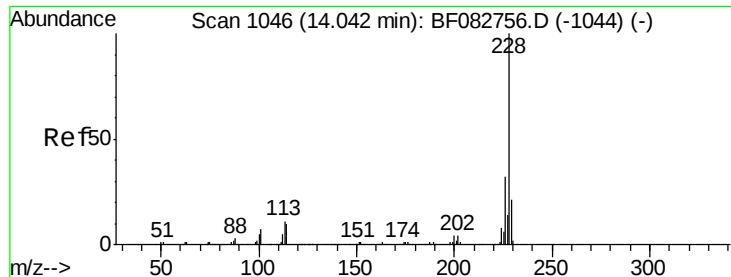
Delta R.T. 0.02 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Tgt Ion:	228	Resp:	2304289
Ion Ratio	Lower	Upper	
228	100		
226	32.7	23.4	35.2
229	22.4	16.3	24.5





#82

Chrysene

Concen: 142.11 ng m

RT: 13.93 min Scan# 1036

Delta R.T. 0.01 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

Instrument :

BNA_F

ClientSampleId :

PM-1350

Tgt Ion:228 Resp: 2110453

Ion Ratio Lower Upper

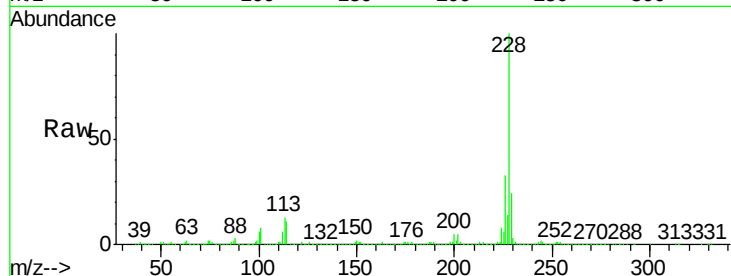
228 100

226 32.6 25.5 38.3

229 24.1 16.3 24.5

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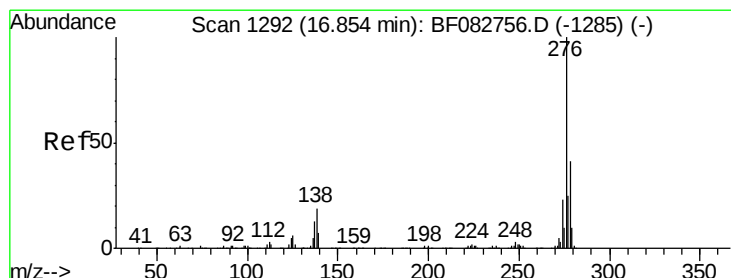
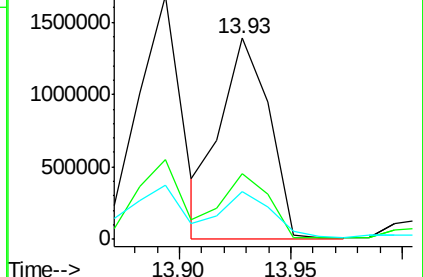
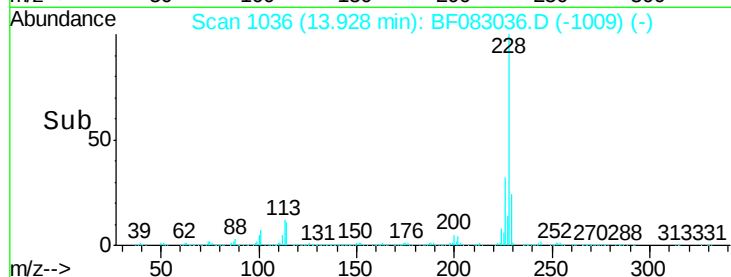
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Abundance Ion 228.00 (227.70 to 228.70): E

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: 60.31 ng

RT: 16.63 min Scan# 1272

Delta R.T. 0.02 min

Lab File: BF083036.D

Acq: 19 Nov 2015 4:45

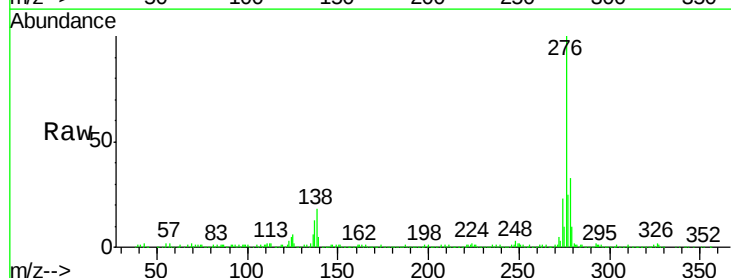
Tgt Ion:276 Resp: 771408

Ion Ratio Lower Upper

276 100

138 16.6 15.3 22.9

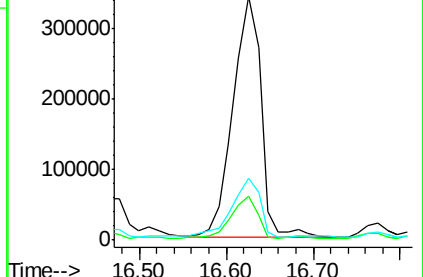
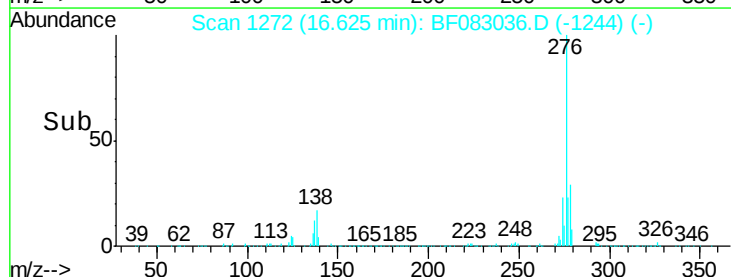
277 24.6 20.2 30.4

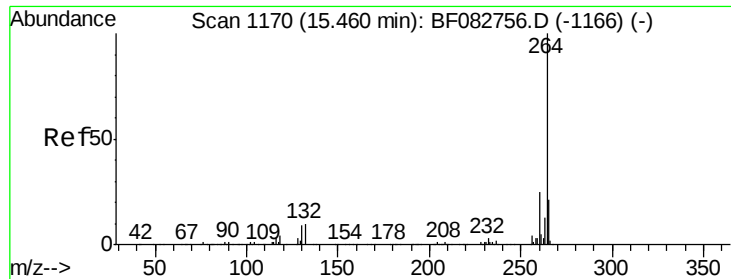


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





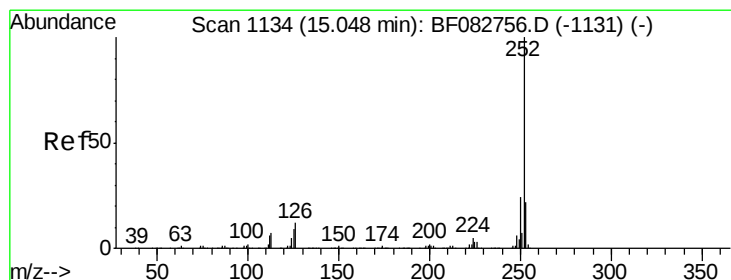
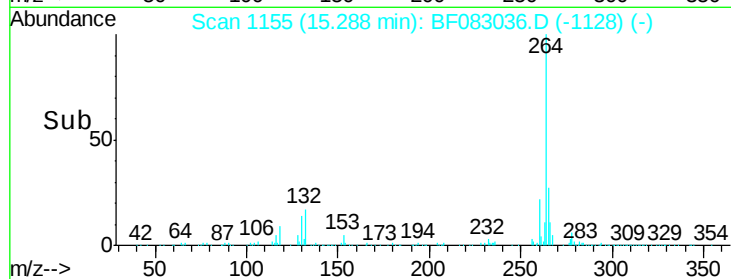
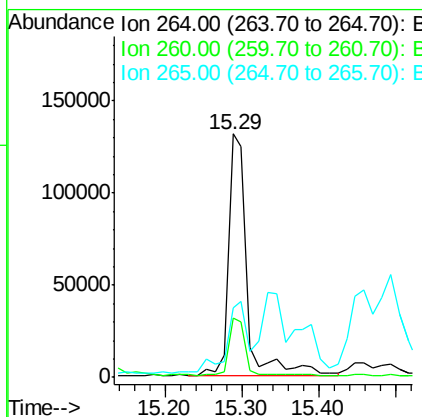
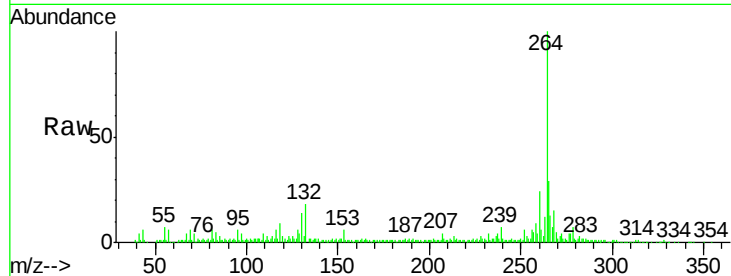
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.29 min Scan# 1155
Delta R.T. 0.01 min
Lab File: BF083036.D
Acq: 19 Nov 2015 4:45

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.8	29.6
265	28.5	17.4	26.0

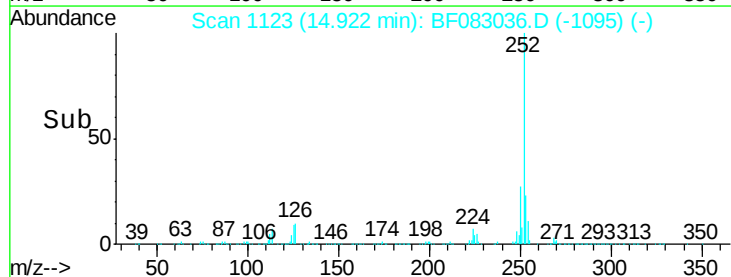
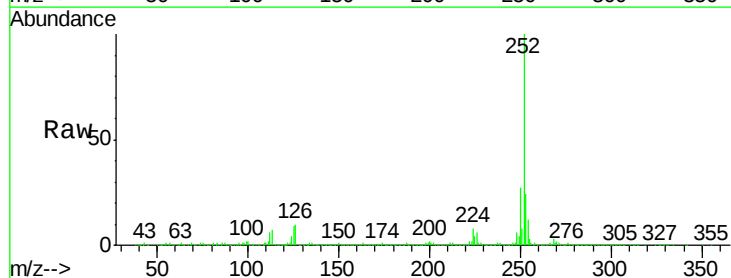
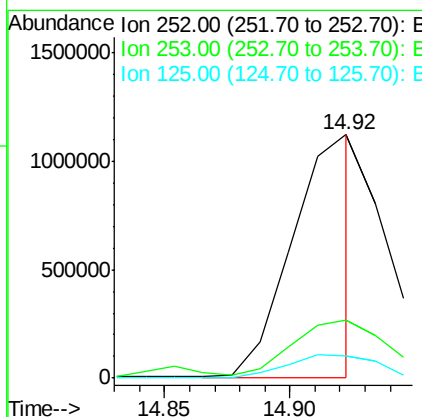
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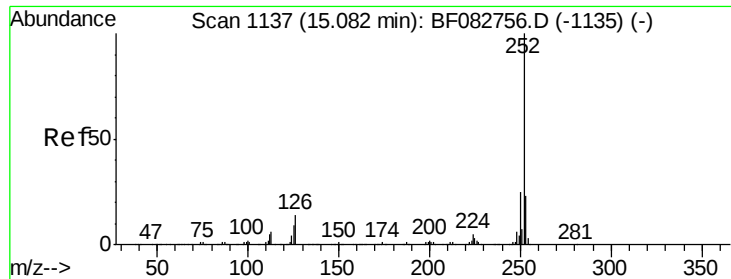
Mmdadoda
11/19/2015 6:45:15 PM



#87
Benzo(b)fluoranthene
Concen: 138.86 ng m
RT: 14.92 min Scan# 1123
Delta R.T. 0.02 min
Lab File: BF083036.D
Acq: 19 Nov 2015 4:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.8	26.8
125	9.2	5.4	8.2





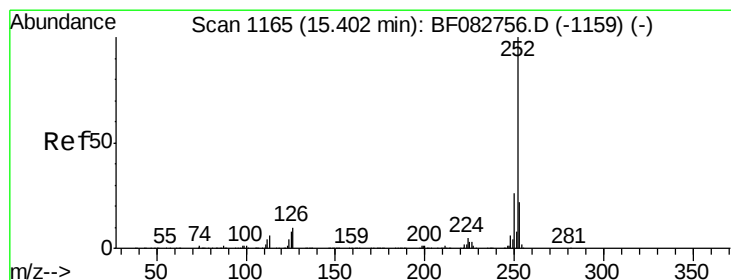
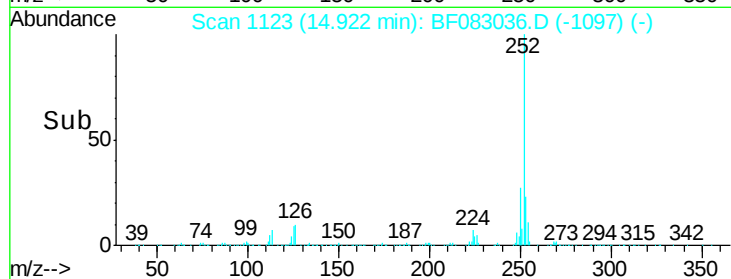
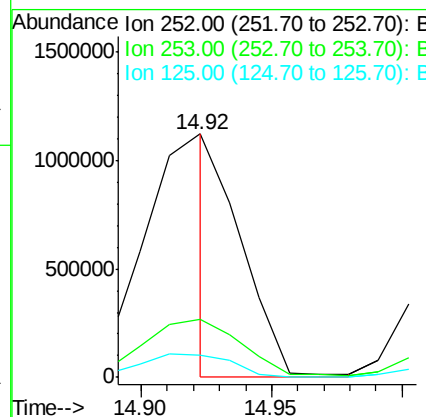
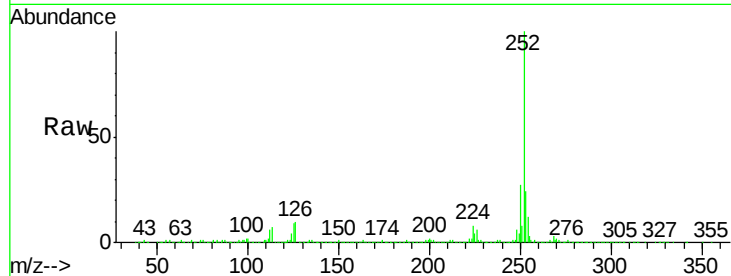
#88
Benzo(k)fluoranthene
Concen: 65.72 ng m
RT: 14.92 min Scan# 1123
Delta R.T. 0.00 min
Lab File: BF083036.D
Acq: 19 Nov 2015 4:45

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	9.2	3.5	5.3#

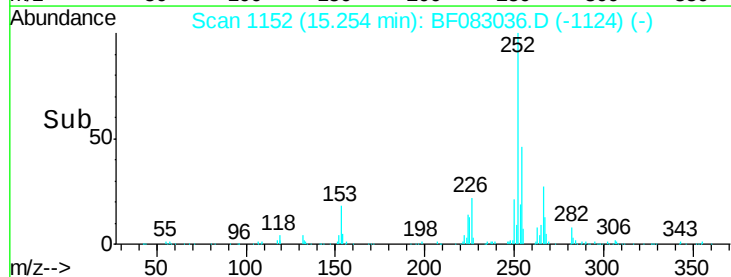
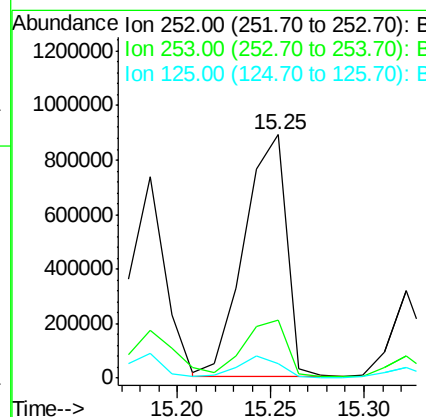
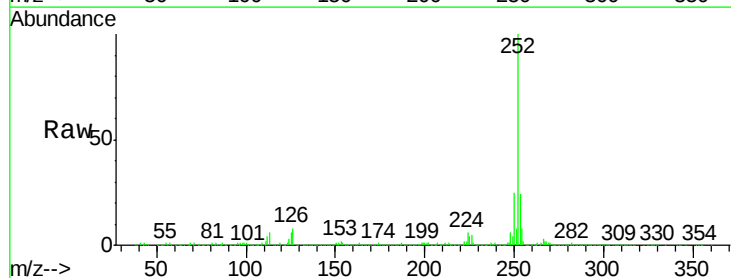
Manual Integrations
APPROVED

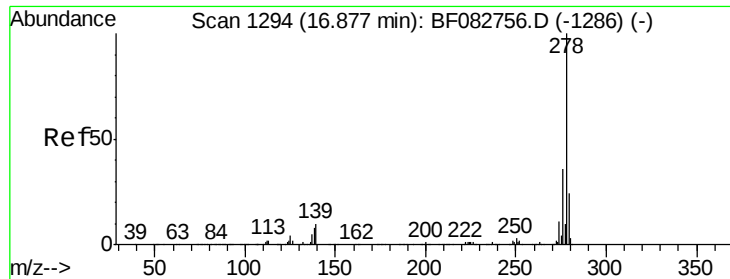
Mmdadoda
11/19/2015 6:45:15 PM



#89
Benzo(a)pyrene
Concen: 113.18 ng
RT: 15.25 min Scan# 1152
Delta R.T. 0.02 min
Lab File: BF083036.D
Acq: 19 Nov 2015 4:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.3	25.9
125	6.0	7.1	10.7#





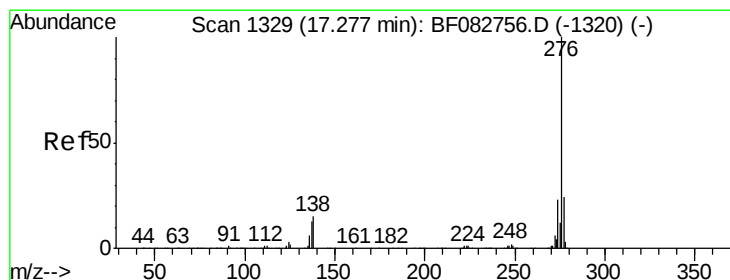
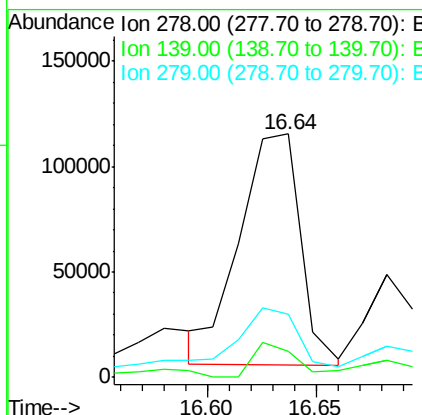
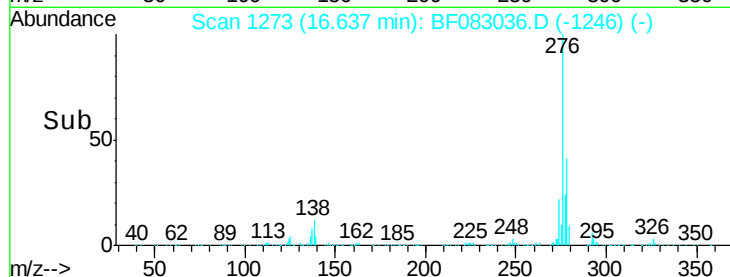
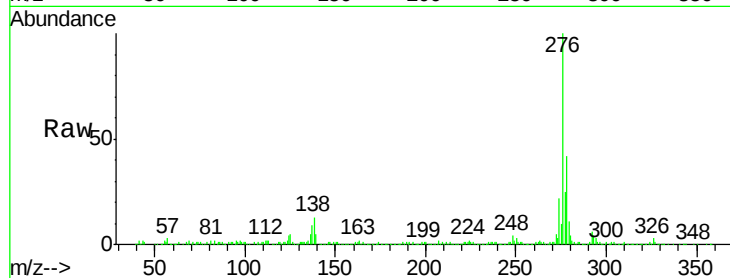
#90
 Dibenzo(a,h)anthracene
 Concen: 20.25 ng m
 RT: 16.64 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

Tgt Ion:	278	Resp:	213626
Ion Ratio	Lower	Upper	
278	100		
139	10.6	9.9	14.9
279	26.0	19.6	29.4

Manual Integrations
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#91
 Benzo(g,h,i)perylene
 Concen: 66.03 ng
 RT: 17.03 min Scan# 1307
 Delta R.T. 0.02 min
 Lab File: BF083036.D
 Acq: 19 Nov 2015 4:45

Tgt Ion:	276	Resp:	667124
Ion Ratio	Lower	Upper	
276	100		
277	24.4	19.2	28.8
138	18.2	13.1	19.7

