

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
 Data File : BF079613.D
 Acq On : 30 May 2015 20:10
 Operator : TP/IZ
 Sample : G2420-34
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.19(5)

Manual Integrations
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Quant Time: May 31 07:29:20 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 29 17:35:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	67576	20.00	ng	-0.02
21) Naphthalene-d8	8.51	136	282815	20.00	ng	-0.02
38) Acenaphthene-d10	10.67	164	131161	20.00	ng	-0.03
63) Phenanthrene-d10	12.51	188	250201	20.00	ng	-0.02
75) Chrysene-d12	15.79	240	252315	20.00	ng	-0.05
86) Perylene-d12	17.51	264	274502	20.00	ng	-0.16
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	454158	116.57	ng	-0.02
7) Phenol-d6	6.54	99	600395	120.90	ng	-0.02
23) Nitrobenzene-d5	7.63	82	327027	66.84	ng	-0.03
41) 2,4,6-Tribromophenol	11.66	330	166806	115.79	ng	-0.03
44) 2-Fluorobiphenyl	9.86	172	663240	72.14	ng	-0.02
78) Terphenyl-d14	14.50	244	712275	66.25	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	8.54	128	369770	27.24	ng	99
37) 2-Methylnaphthalene	9.39	142	119560	12.69	ng	97
45) 1,1'-Biphenyl	9.98	154	28806	2.81	ng	97
48) Acenaphthylene	10.50	152	73144	5.45	ng	98
49) Dimethylphthalate	10.38	163	53981	5.59	ng	# 98
51) Acenaphthene	10.71	154	111622	14.53	ng	99
54) Dibenzofuran	10.94	168	181137	15.99	ng	92
57) Fluorene	11.36	166	169206	18.12	ng	99
70) Phenanthrene	12.55	178	1782862	129.89	ng	98
71) Anthracene	12.61	178	341939	24.54	ng	100
72) Carbazole	12.82	167	225592	16.81	ng	98
74) Fluoranthene	14.01	202	1711865	116.30	ng	92
77) Pyrene	14.30	202	1467053	93.85	ng	99
80) Benzo(a)anthracene	15.77	228	767966	52.91	ng	93
82) Chrysene	15.82	228	697838	50.58	ng	98
85) Indeno(1,2,3-cd)pyrene	18.80	276	401517m	22.63	ng	
87) Benzo(b)fluoranthene	17.07	252	926263m	59.16	ng	
88) Benzo(k)fluoranthene	17.11	252	242994m	17.36	ng	
89) Benzo(a)pyrene	17.45	252	604217	43.97	ng	97
90) Dibenzo(a,h)anthracene	18.81	278	104400m	5.95	ng	
91) Benzo(g,h,i)perylene	19.18	276	362863	24.98	ng	95

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

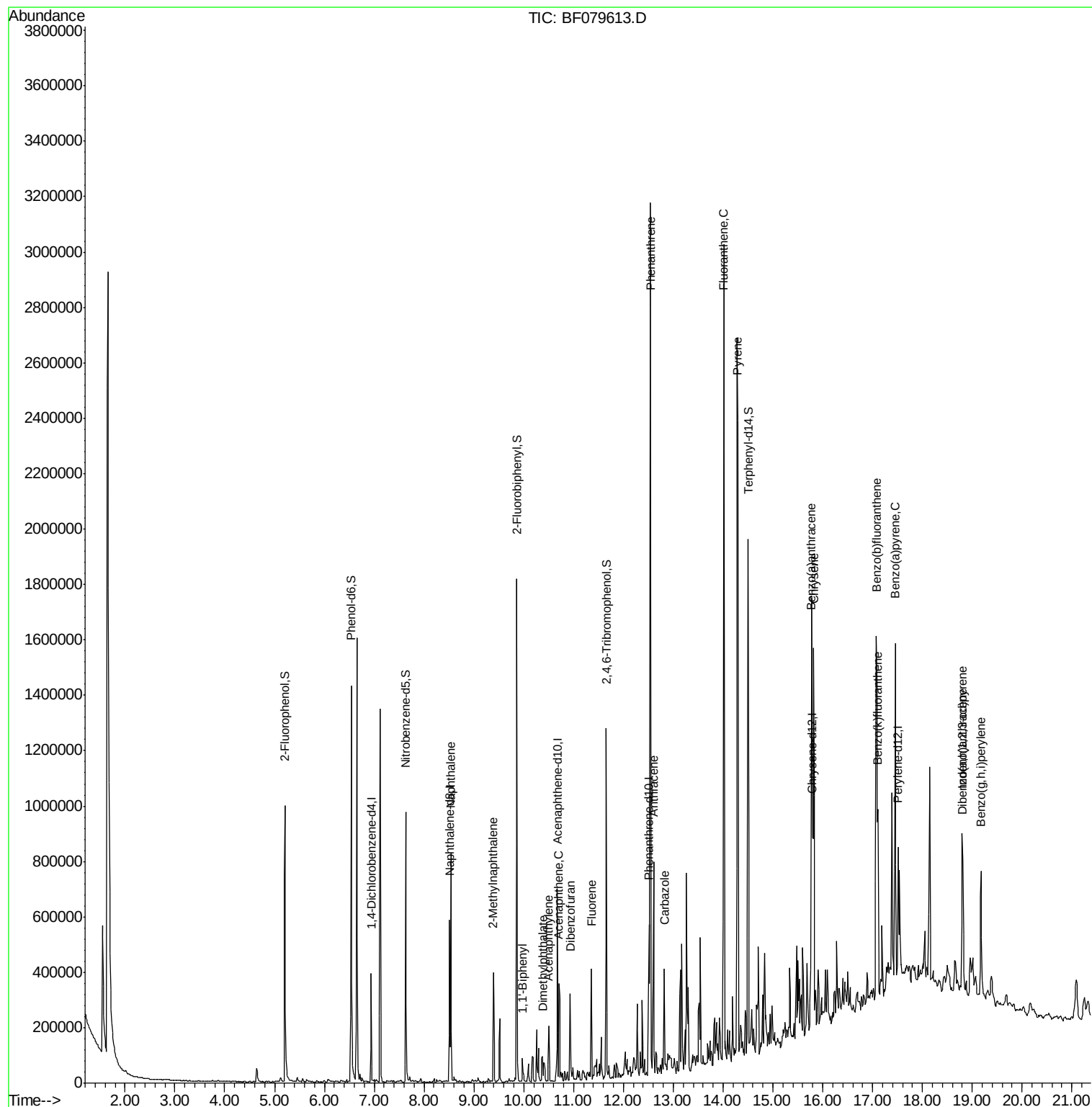
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079613.D
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ALS Vial : 16 Sample Multiplier: 1

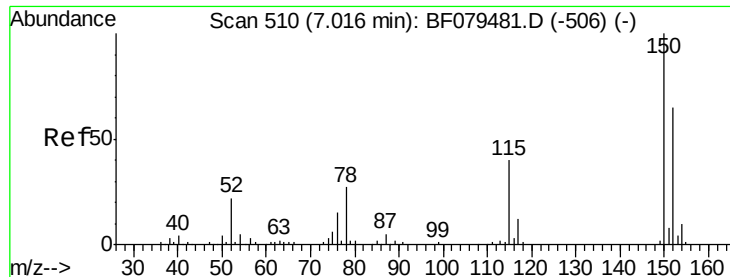
Instrument :
BNA_F
ClientSampleId :
PENRD8.19(5)

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Quant Time: May 31 07:29:20 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

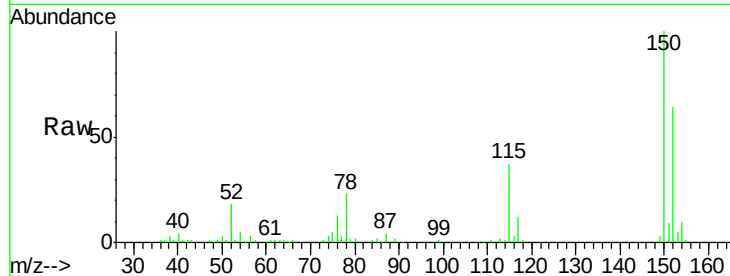
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.94 min Scan# 503
Delta R.T. -0.02 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Instrument :
BNA_F
ClientSampleId :
PENRD8.19(5)

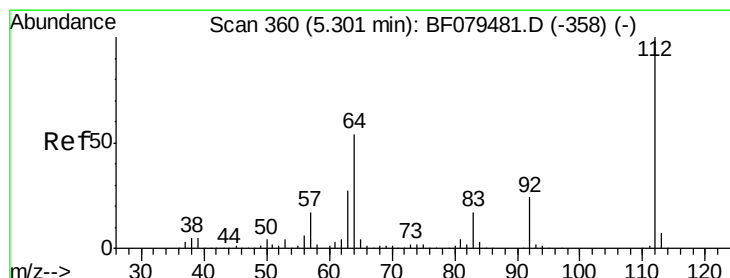
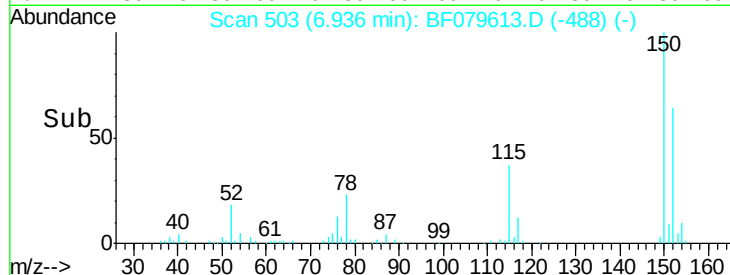
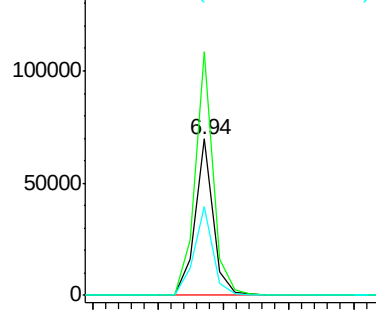
Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.0	186.0
115	57.1	49.6	74.4

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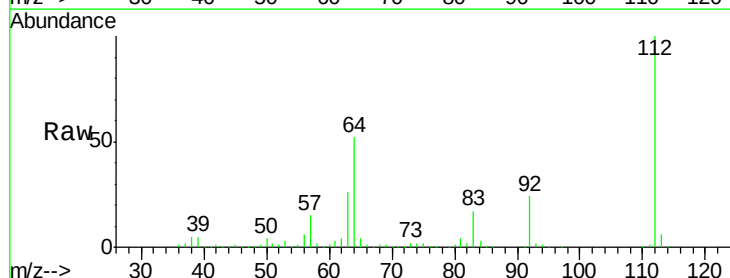
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



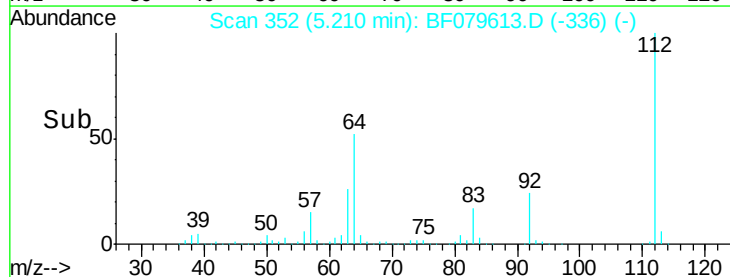
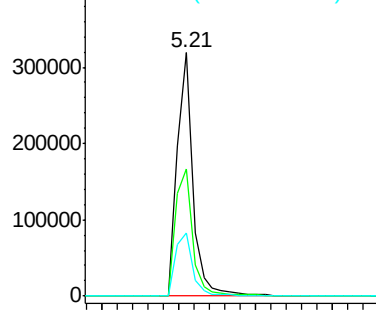
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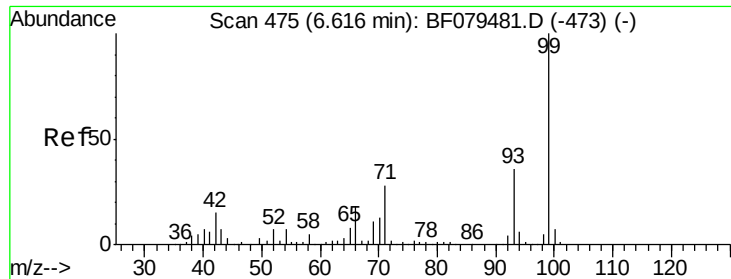
2-Fluorophenol
Concen: 116.57 ng
RT: 5.21 min Scan# 352
Delta R.T. -0.02 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.1	43.5	65.3
63	25.8	21.8	32.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 120.90 ng

RT: 6.54 min Scan# 468

Delta R.T. -0.02 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Instrument :

BNA_F

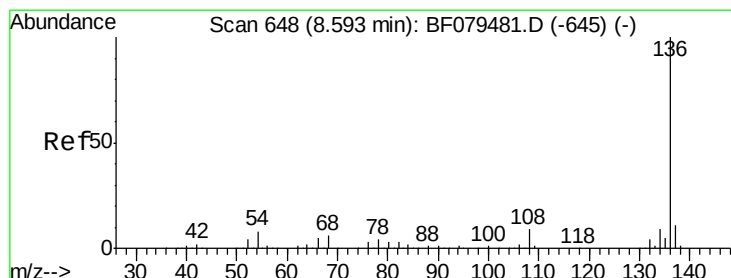
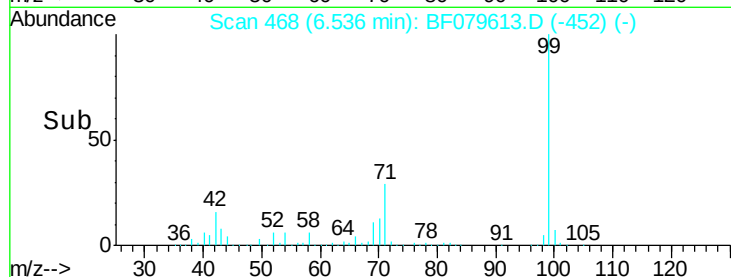
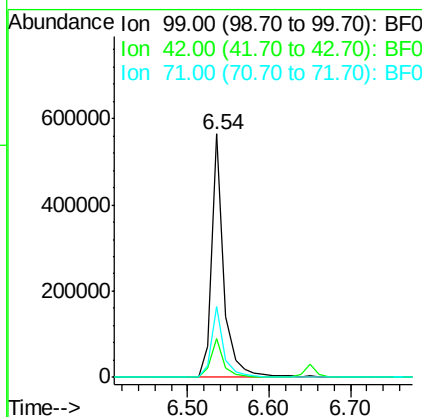
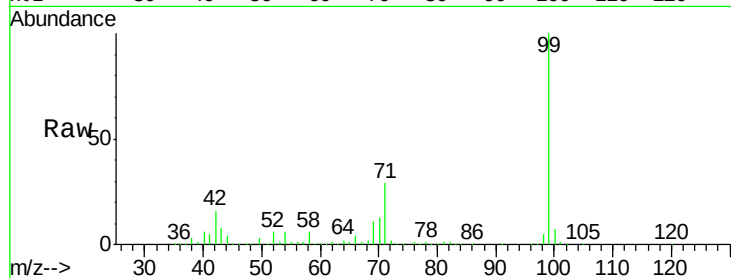
ClientSampleId :

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Tgt Ion:	99	Resp:	600395
Ion Ratio	Lower	Upper	
99	100		
42	16.1	11.9	17.9
71	29.2	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

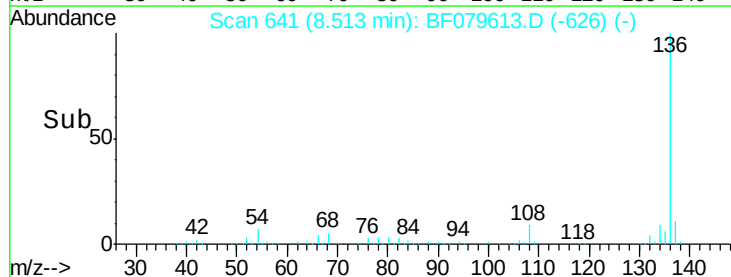
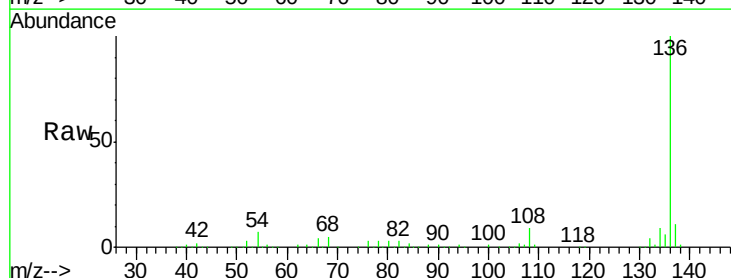
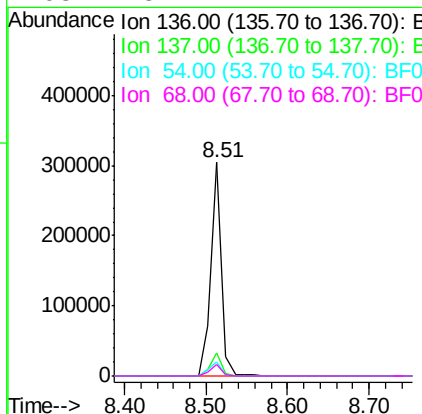
RT: 8.51 min Scan# 641

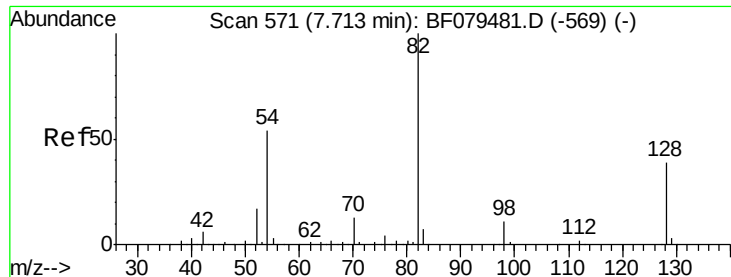
Delta R.T. -0.02 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Tgt Ion:	136	Resp:	282815
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	6.5	6.6	9.8
68	5.1	4.7	7.1





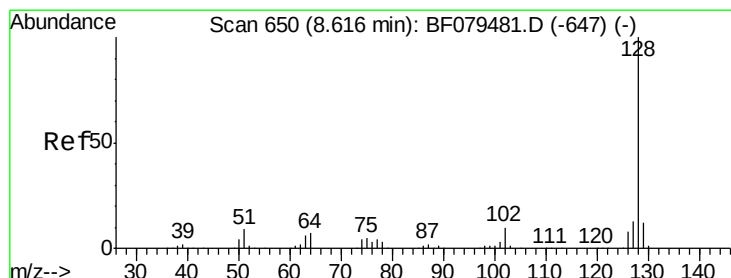
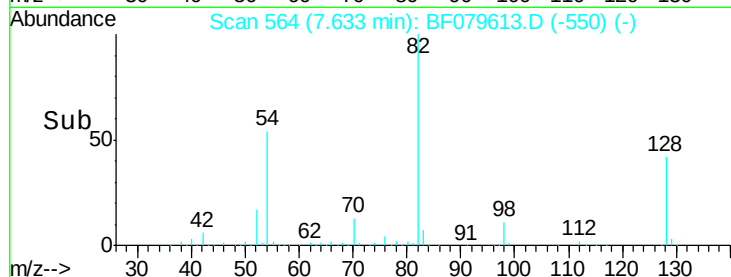
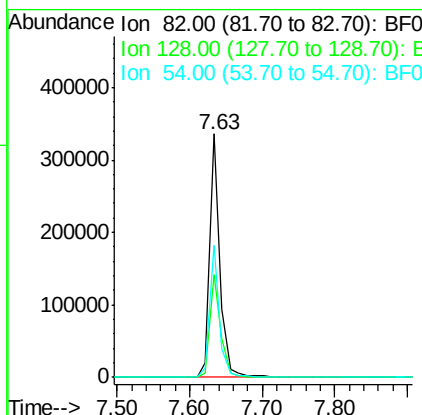
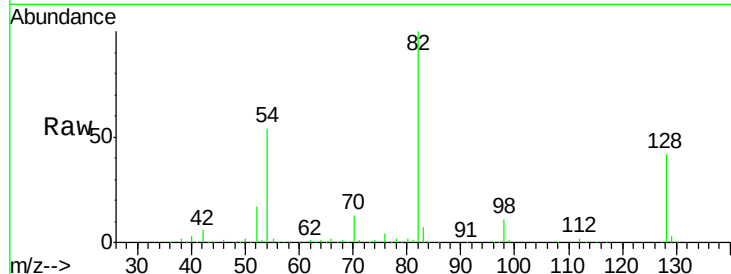
#23
 Nitrobenzene-d5
 Concen: 66.84 ng
 RT: 7.63 min Scan# 564
 Delta R.T. -0.03 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	42.1	30.8	46.2
54	54.2	42.8	64.2

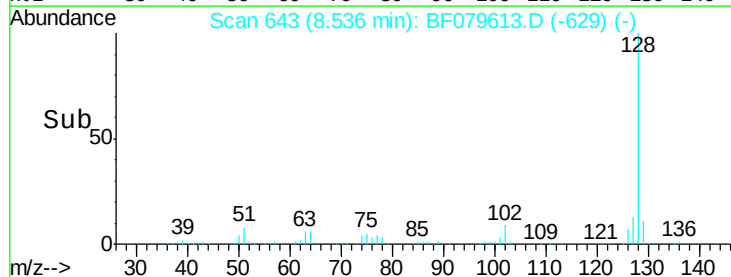
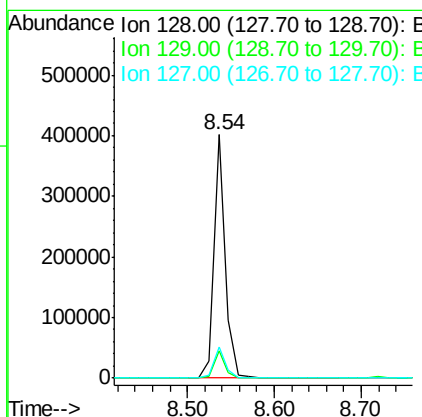
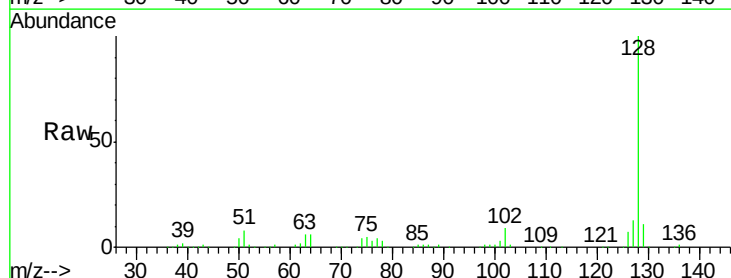
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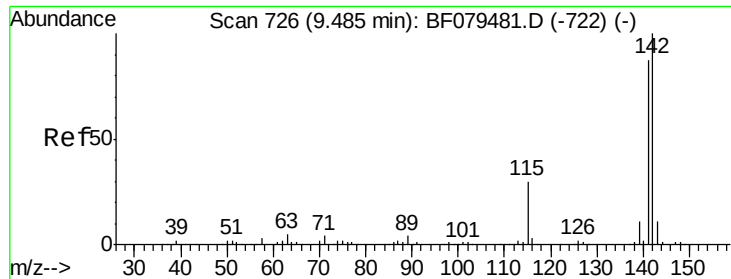
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#31
 Naphthalene
 Concen: 27.24 ng
 RT: 8.54 min Scan# 643
 Delta R.T. -0.03 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.2	9.3	13.9
127	13.0	10.6	15.8





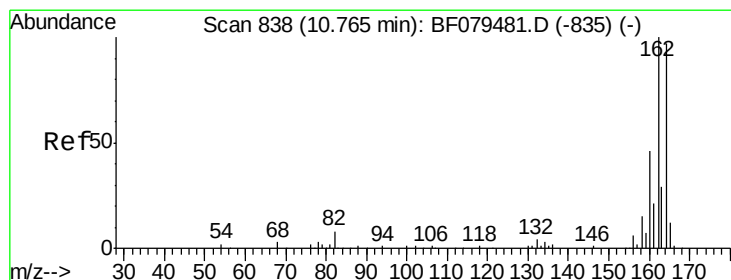
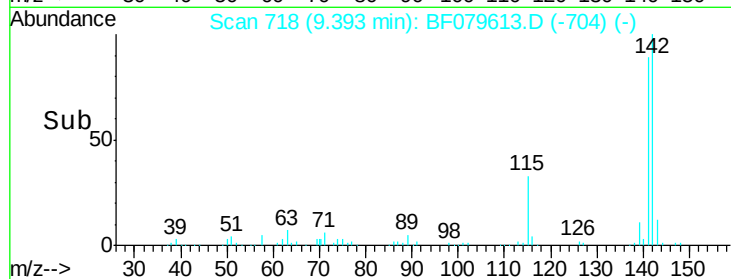
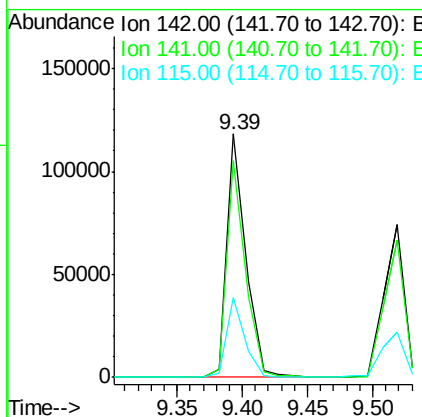
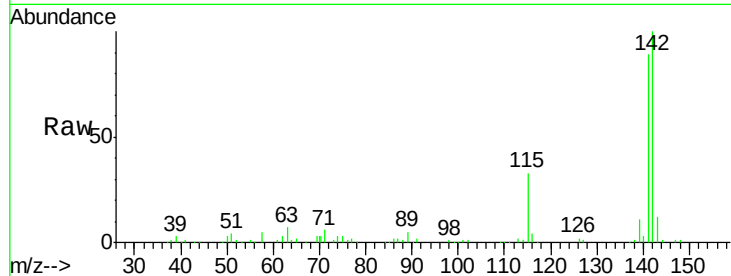
#37
 2-Methylnaphthalene
 Concen: 12.69 ng
 RT: 9.39 min Scan# 718
 Delta R.T. -0.03 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
142	100	119560		
141	89.2	69.5	104.3	
115	32.8	23.8	35.6	

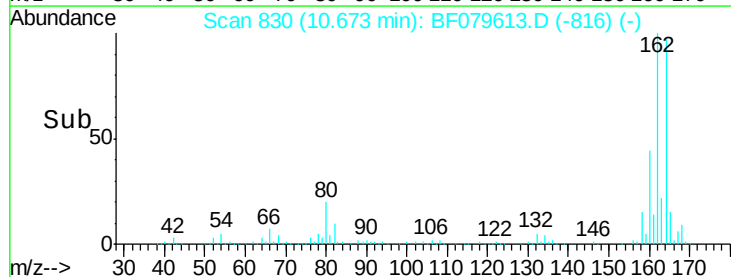
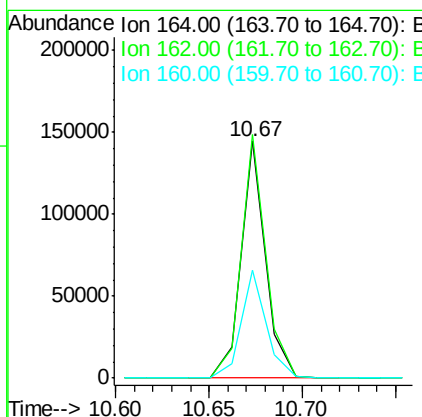
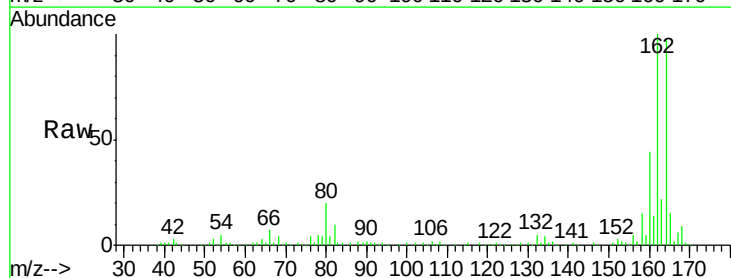
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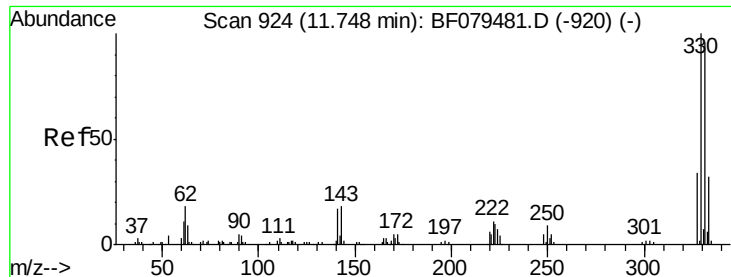
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.67 min Scan# 830
 Delta R.T. -0.03 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	131161		
162	102.7	82.6	124.0	
160	45.7	37.7	56.5	





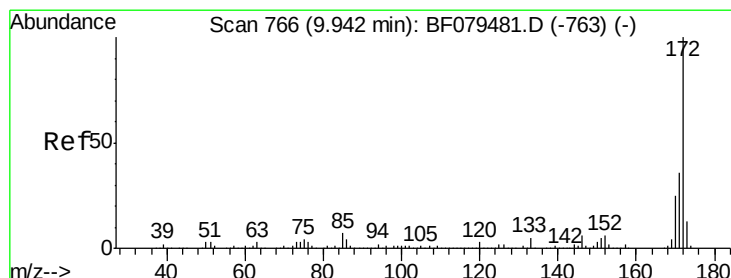
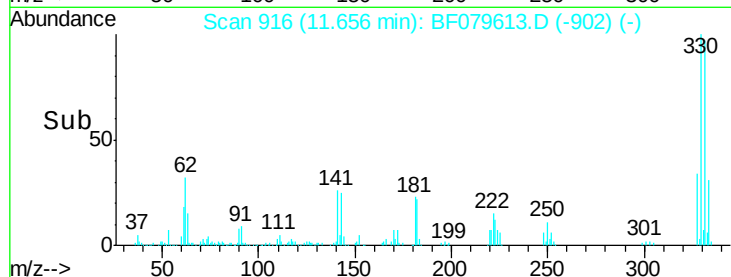
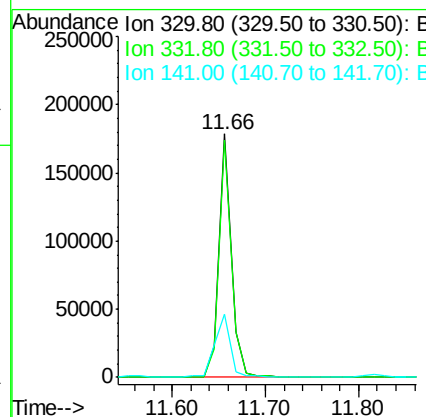
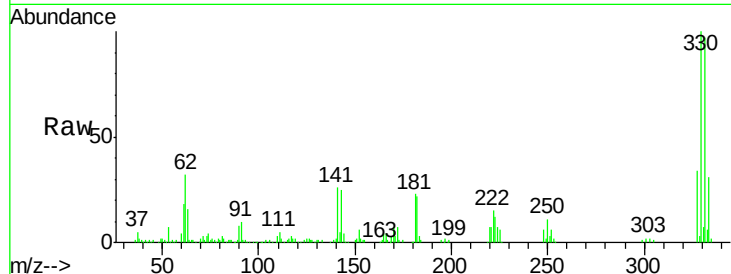
#41
 2,4,6-Tribromophenol
 Concen: 115.79 ng
 RT: 11.66 min Scan# 916
 Delta R.T. -0.03 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Upper
330	100		
332	96.3	0.0	0.0#
141	34.0	0.0	0.0#

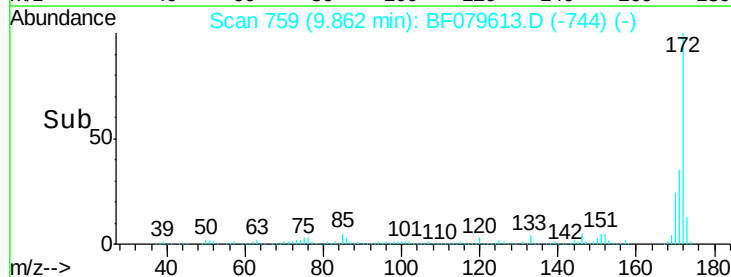
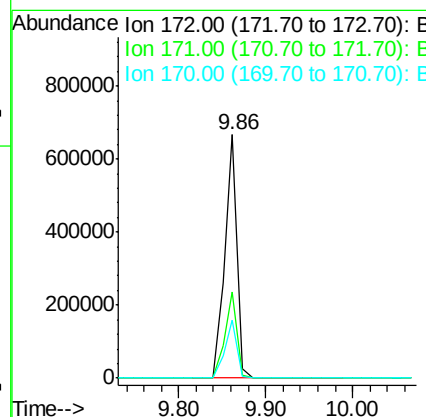
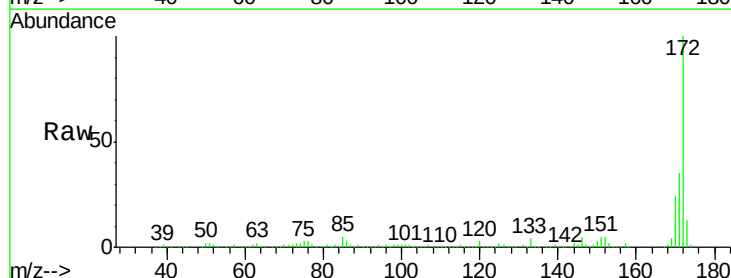
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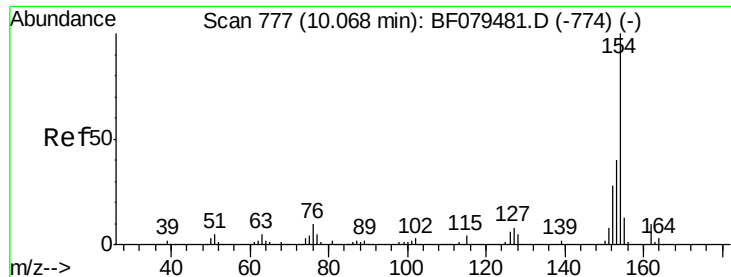
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#44
 2-Fluorobiphenyl
 Concen: 72.14 ng
 RT: 9.86 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	35.3	28.5	42.7
170	24.0	19.7	29.5





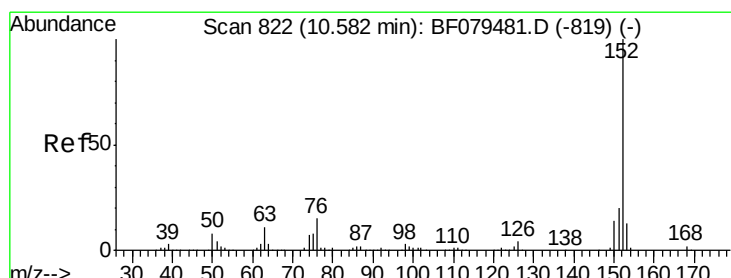
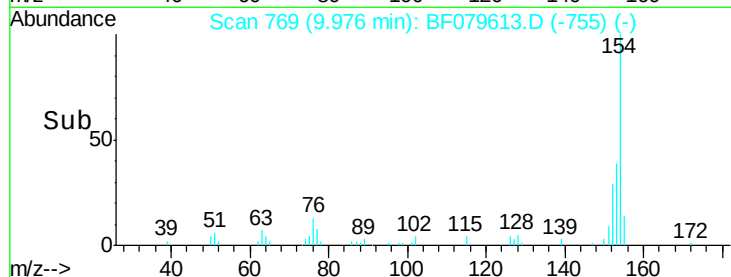
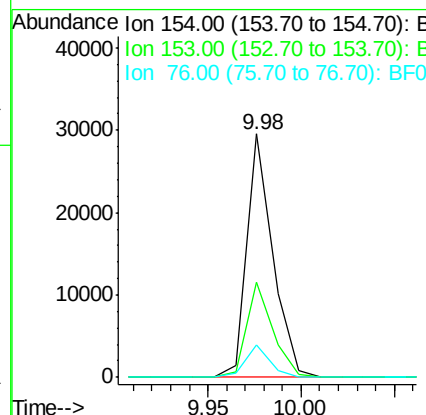
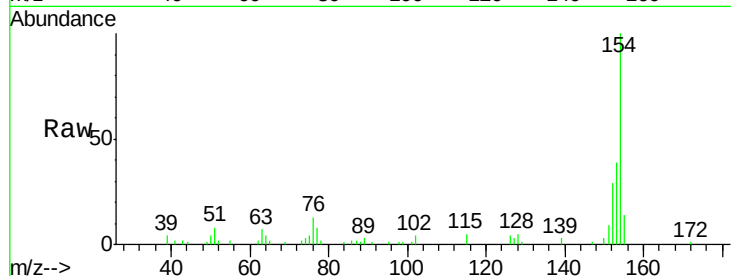
#45
 1,1'-Biphenyl
 Concen: 2.81 ng
 RT: 9.98 min Scan# 769
 Delta R.T. -0.03 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Instrument :
 BNA_F
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 PENRD8.19(5)

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	28806		
153	39.0	19.5	59.5	
76	13.2	0.0	29.6	

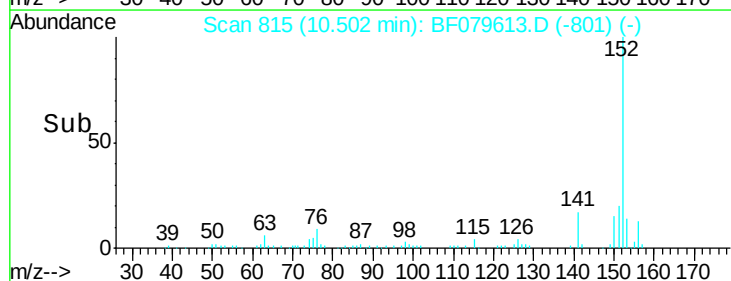
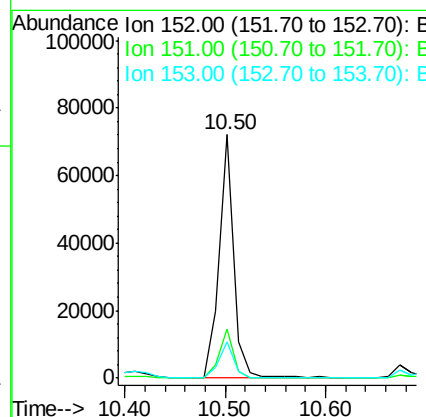
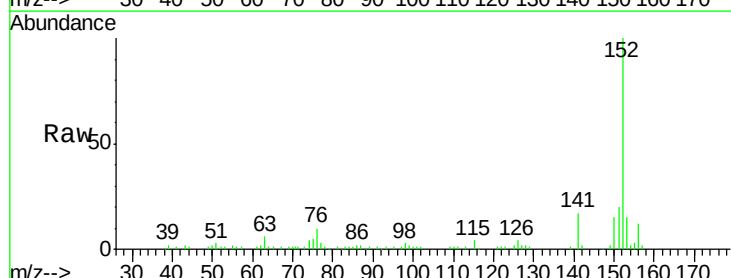
Manual Integrations
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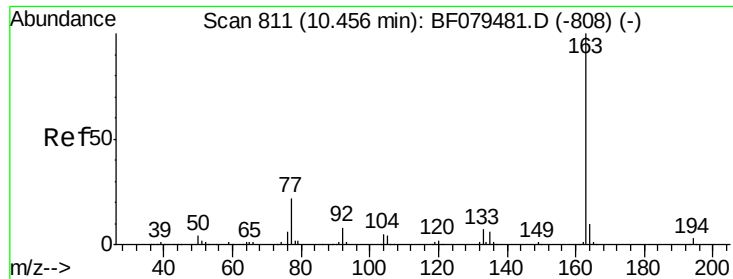
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#48
 Acenaphthylene
 Concen: 5.45 ng
 RT: 10.50 min Scan# 815
 Delta R.T. -0.03 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	73144		
151	20.1	15.8	23.8	
153	14.7	10.7	16.1	





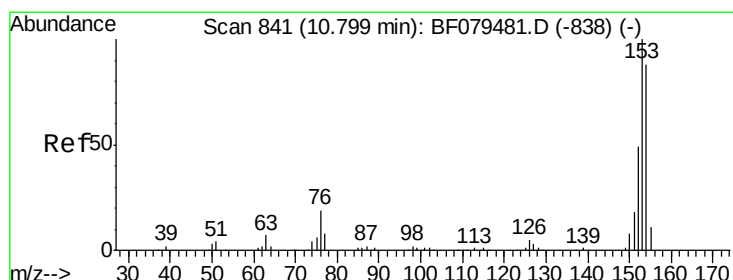
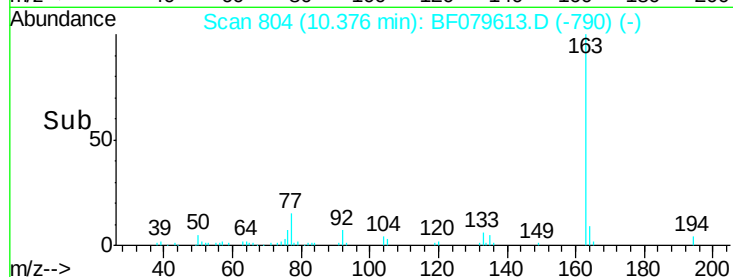
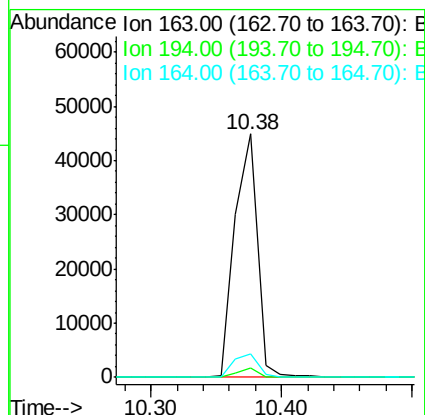
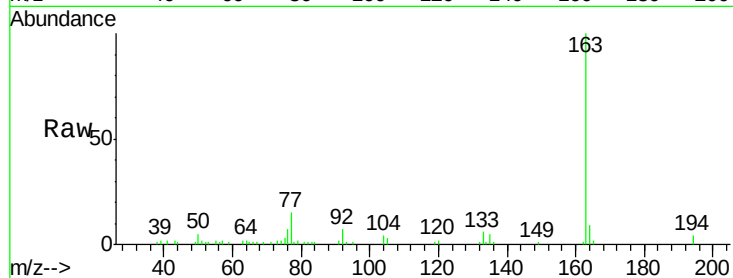
#49
Dimethylphthalate
Concen: 5.59 ng
RT: 10.38 min Scan# 804
Delta R.T. -0.03 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Instrument :
BNA_F
ClientSampleId :
PENRD8.19(5)

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	53981		
194	3.7	2.4	3.6#	
164	9.4	8.2	12.4	

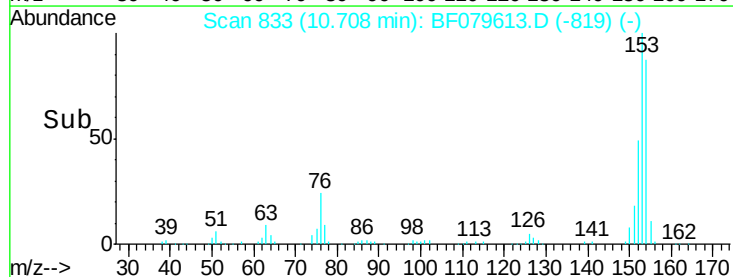
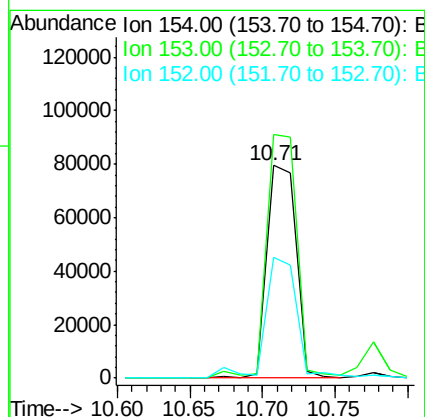
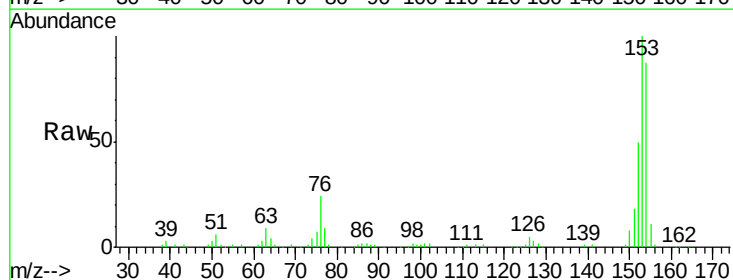
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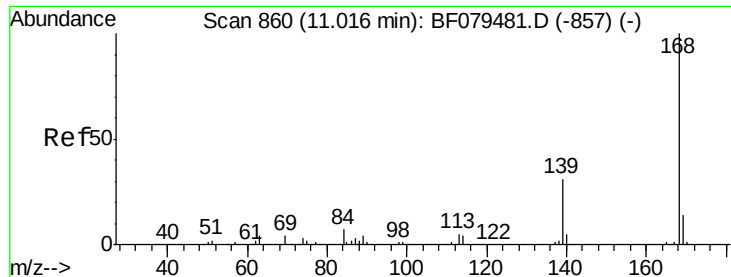
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#51
Acenaphthene
Concen: 14.53 ng
RT: 10.71 min Scan# 833
Delta R.T. -0.03 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	111622		
153	114.5	91.1	136.7	
152	57.0	44.6	66.8	





#54

Dibenzenofuran

Concen: 15.99 ng

RT: 10.94 min Scan# 853

Delta R.T. -0.02 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Instrument :

BNA_F

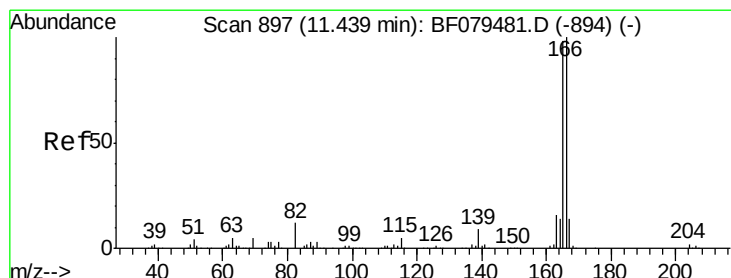
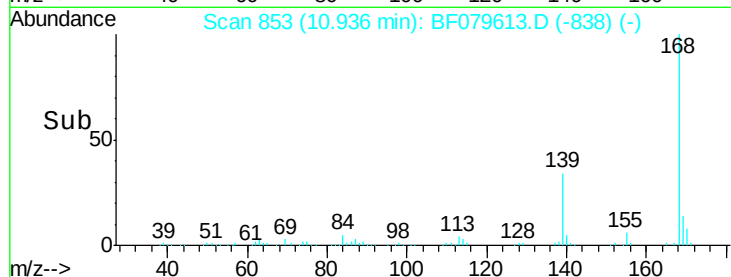
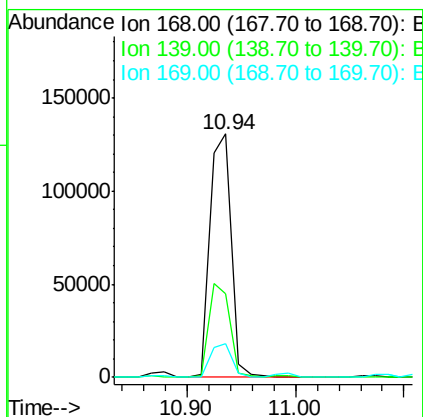
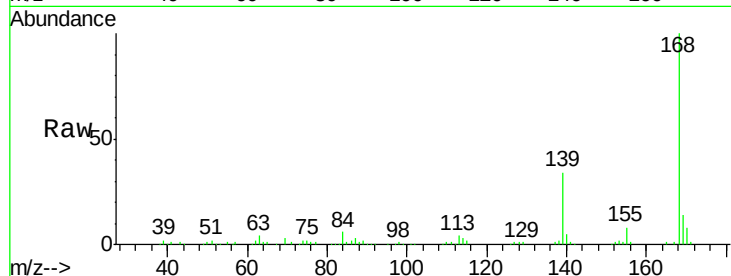
ClientSampleId :

PENRD8.19(5)

Tgt Ion:	168	Resp:	181137
Ion Ratio	Lower	Upper	
168	100		
139	34.4	32.9	49.3
169	13.6	11.1	16.7

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#57

Fluorene

Concen: 18.12 ng

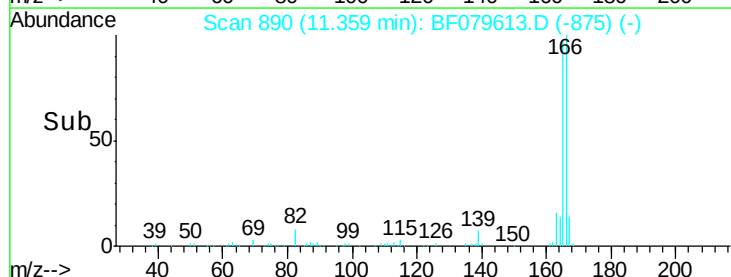
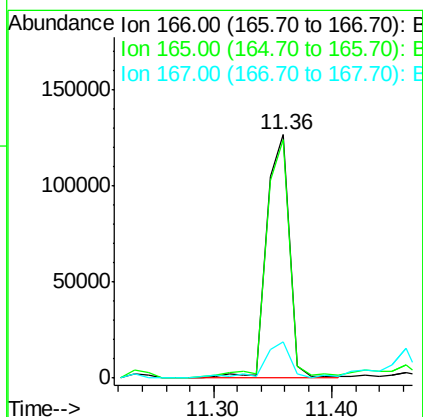
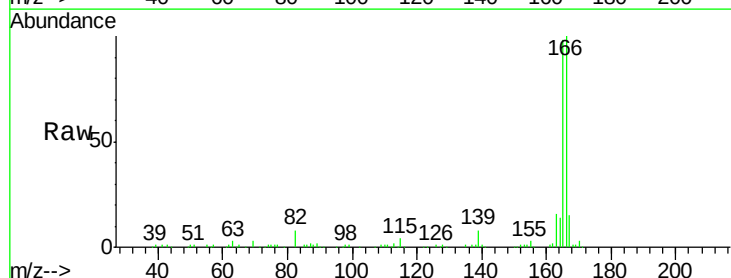
RT: 11.36 min Scan# 890

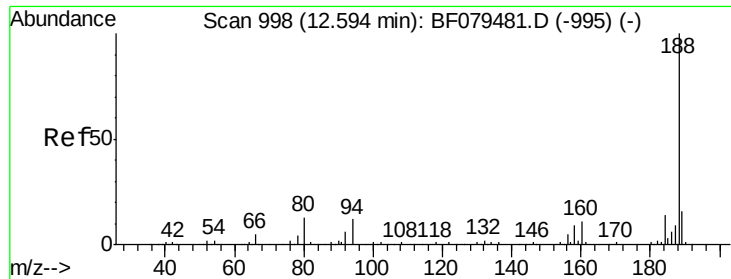
Delta R.T. -0.02 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Tgt Ion:	166	Resp:	169206
Ion Ratio	Lower	Upper	
166	100		
165	97.8	78.6	117.8
167	14.9	10.8	16.2





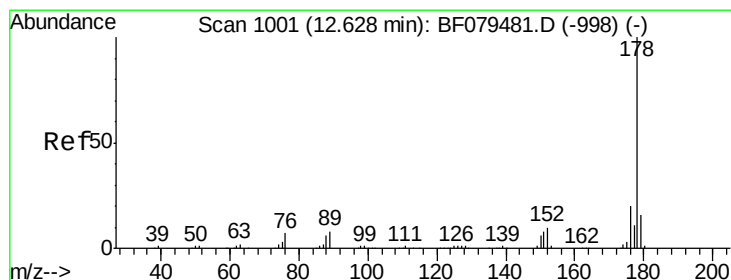
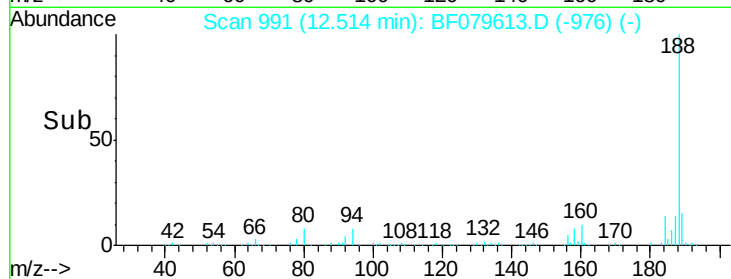
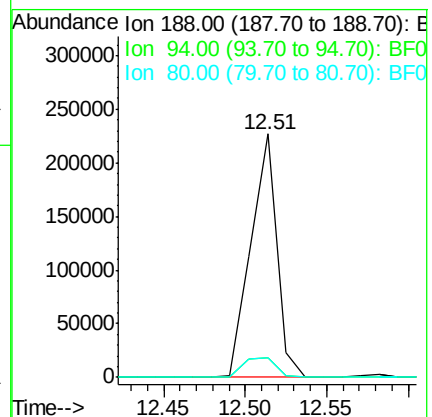
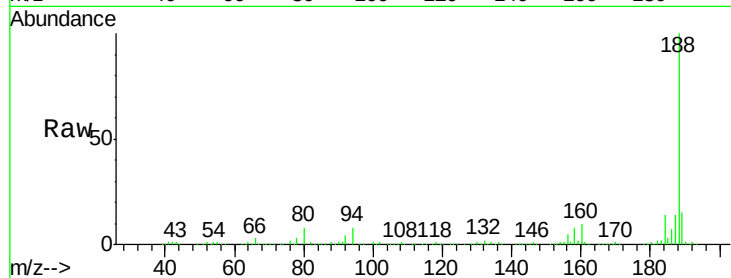
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.51 min Scan# 991
Delta R.T. -0.02 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Instrument :
BNA_F
ClientSampleId :
PENRD8.19(5)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.2	9.8	14.6#
80	8.2	10.5	15.7#

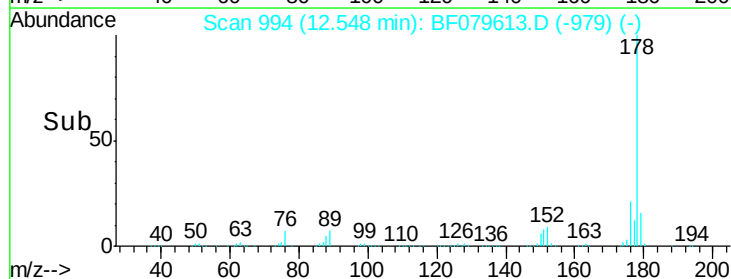
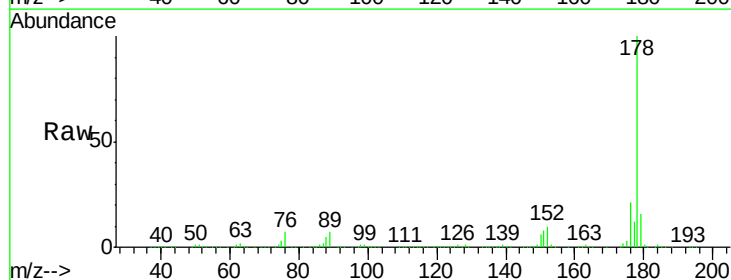
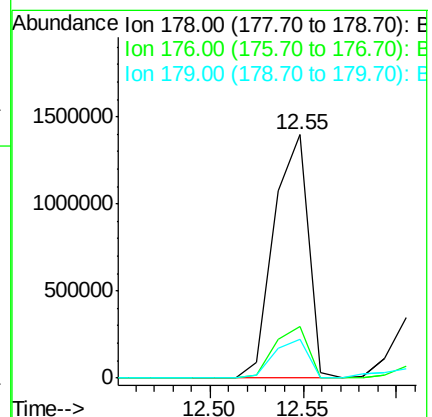
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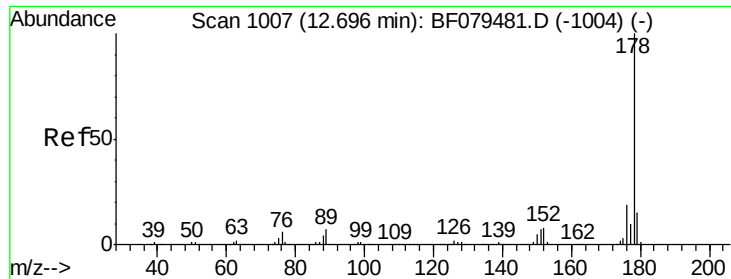
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#70
Phenanthrene
Concen: 129.89 ng
RT: 12.55 min Scan# 994
Delta R.T. -0.02 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	21.0	15.7	23.5
179	16.1	12.4	18.6





#71

Anthracene

Concen: 24.54 ng

RT: 12.61 min Scan# 999

Delta R.T. -0.02 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Instrument :

BNA_F

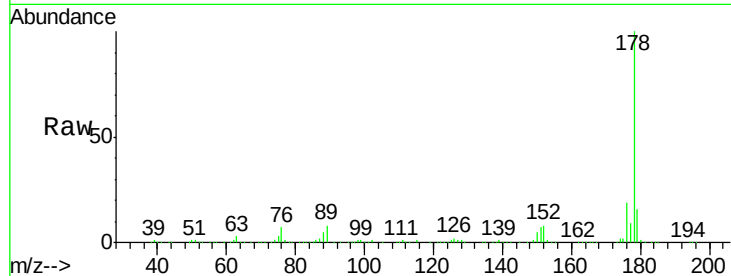
ClientSampleId :

PENRD8.19(5)

Tgt Ion:	178	Resp:	341939
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.3	22.9
179	15.6	12.2	18.4

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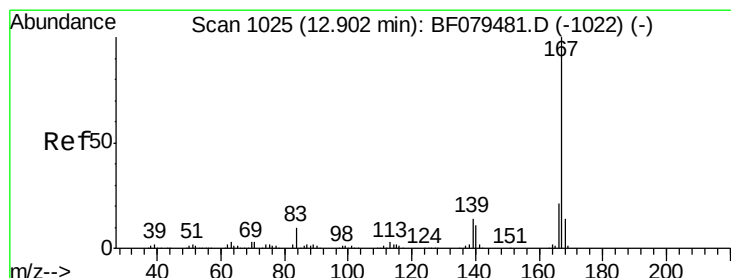
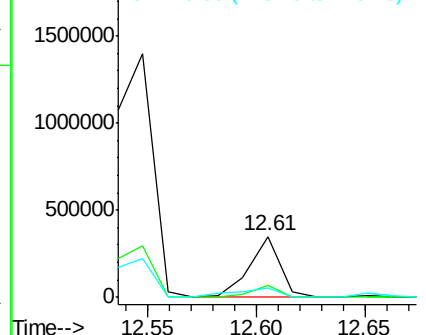
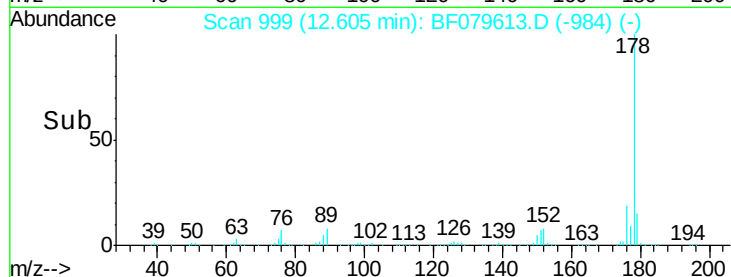
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 16.81 ng

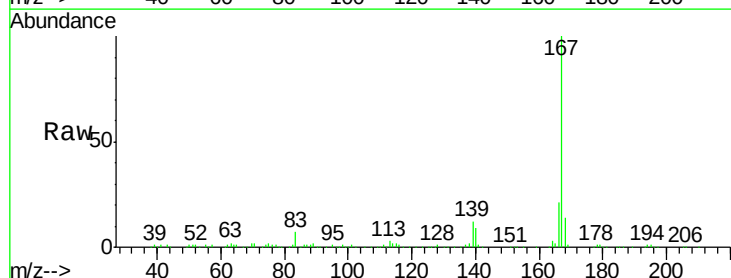
RT: 12.82 min Scan# 1018

Delta R.T. -0.02 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

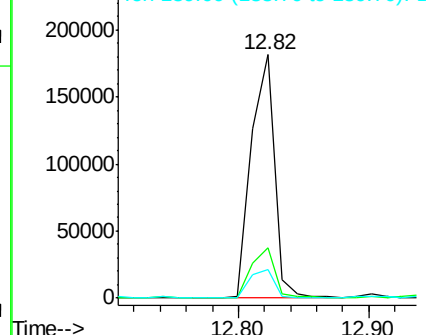
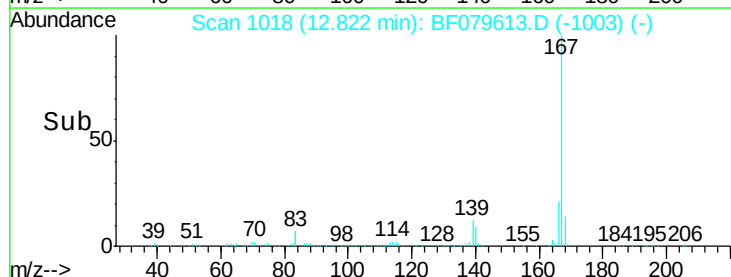
Tgt Ion:	167	Resp:	225592
Ion Ratio	Lower	Upper	
167	100		
166	20.9	17.0	25.4
139	11.9	11.2	16.8

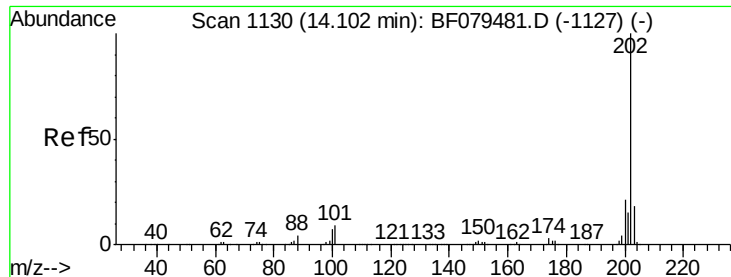


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 116.30 ng

RT: 14.01 min Scan# 1122

Delta R.T. -0.02 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Instrument :

BNA_F

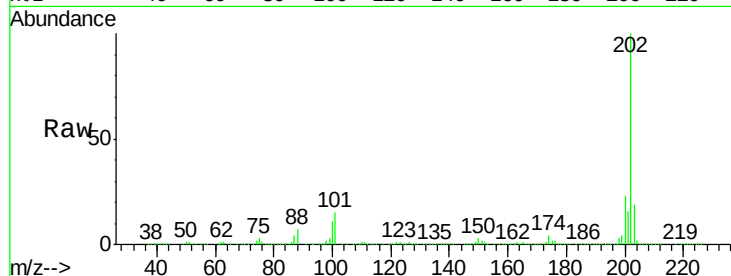
ClientSampleId :

PENRD8.19(5)

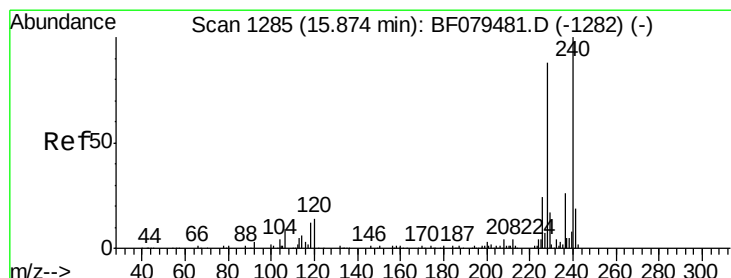
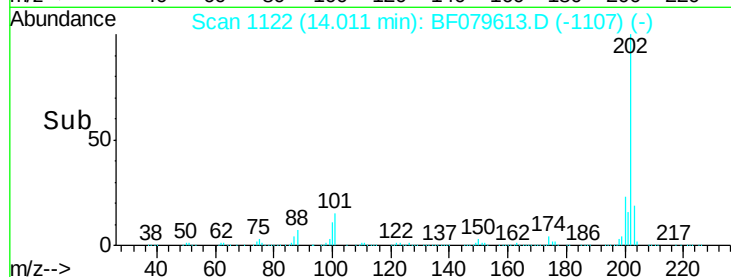
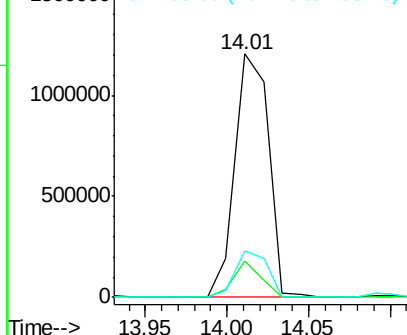
Tgt Ion:	202	Resp:	1711865
Ion Ratio	Lower	Upper	
202	100		
101	14.9	0.0	29.3
203	19.1	0.0	37.6

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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

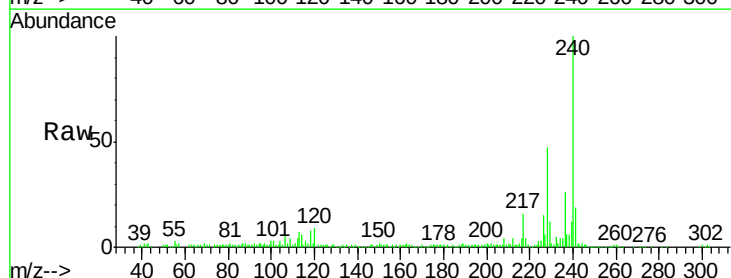
RT: 15.79 min Scan# 1278

Delta R.T. -0.05 min

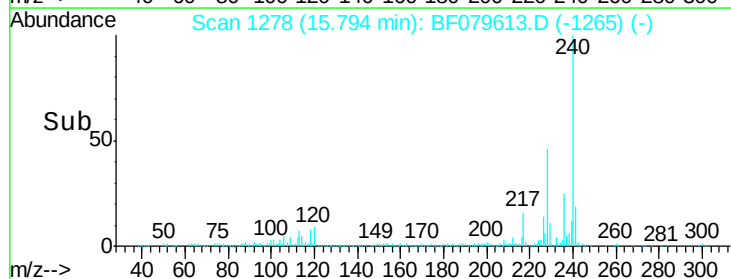
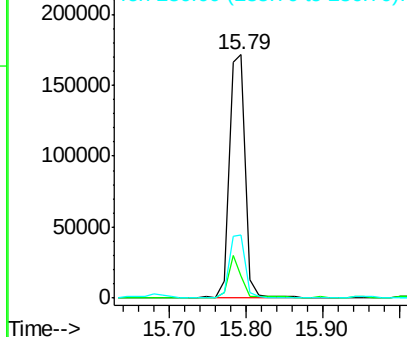
Lab File: BF079613.D

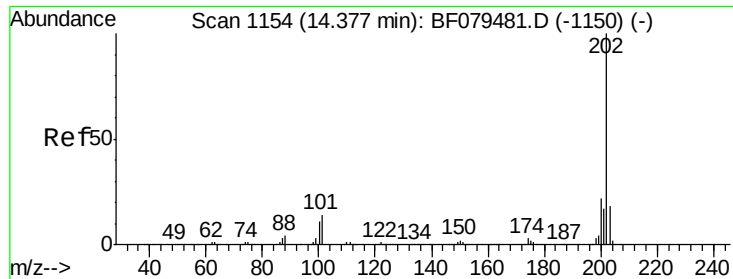
Acq: 30 May 2015 20:10

Tgt Ion:	240	Resp:	252315
Ion Ratio	Lower	Upper	
240	100		
120	9.3	10.8	16.2#
236	26.2	21.0	31.6



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





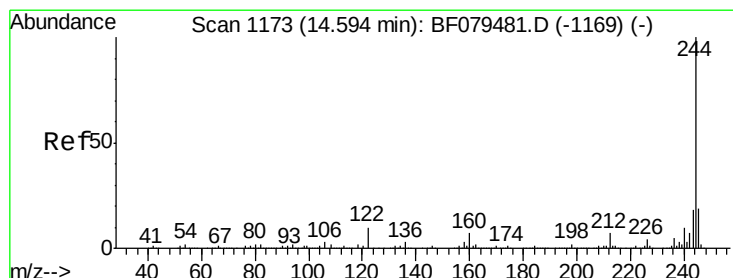
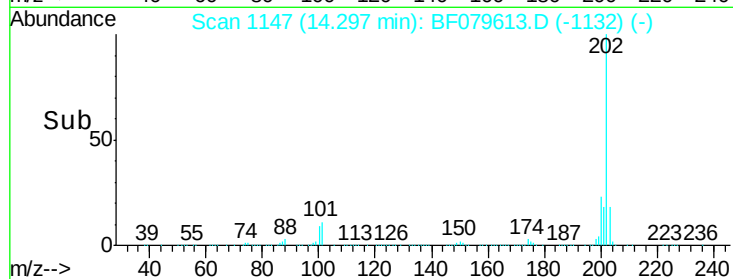
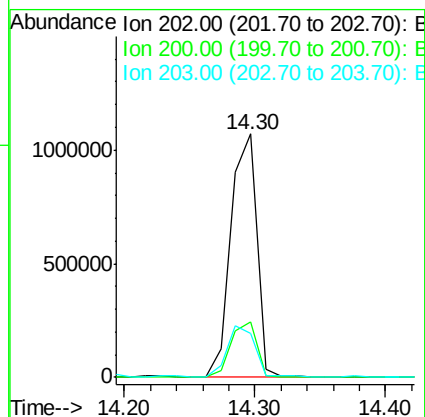
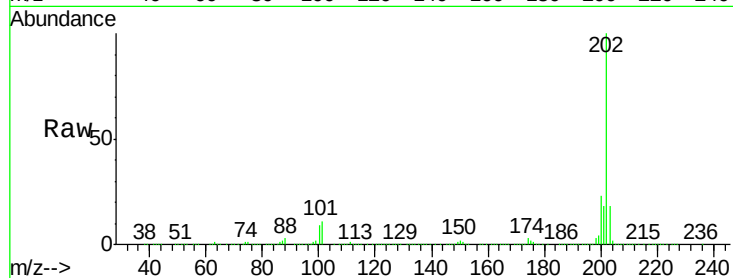
#77
 Pyrene
 Concen: 93.85 ng
 RT: 14.30 min Scan# 1147
 Delta R.T. -0.02 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.19(5)

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.5	26.3
203	18.2	14.4	21.6

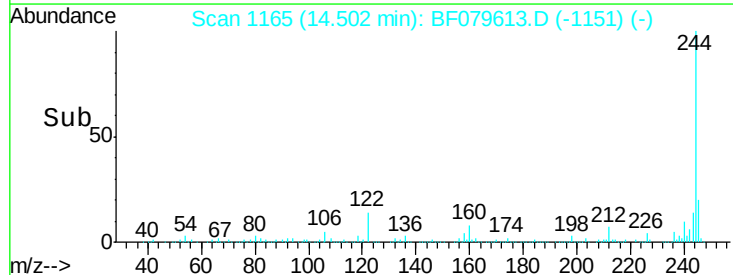
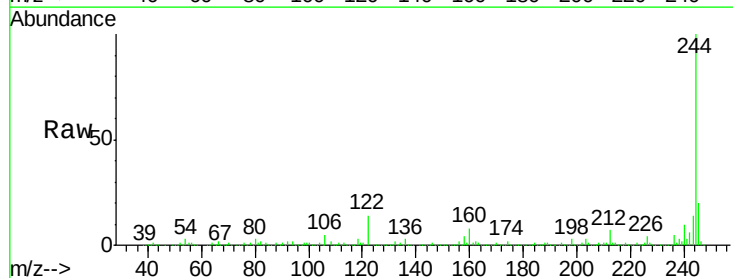
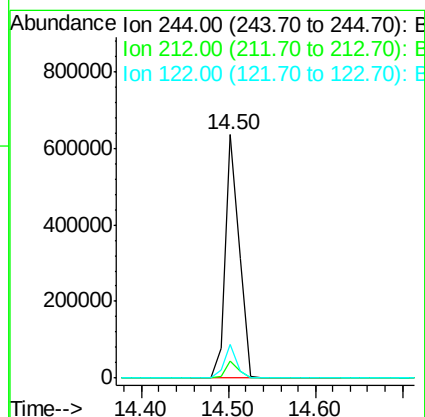
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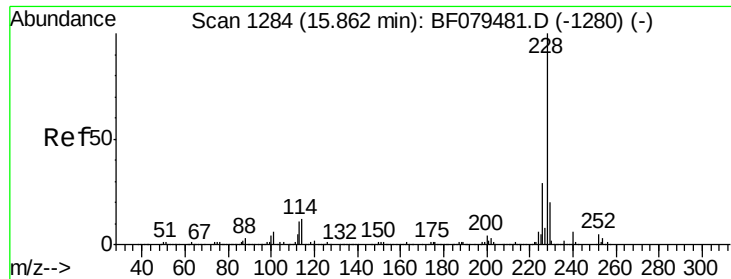
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#78
 Terphenyl-d14
 Concen: 66.25 ng
 RT: 14.50 min Scan# 1165
 Delta R.T. -0.03 min
 Lab File: BF079613.D
 Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.2	7.8
122	13.9	8.0	12.0





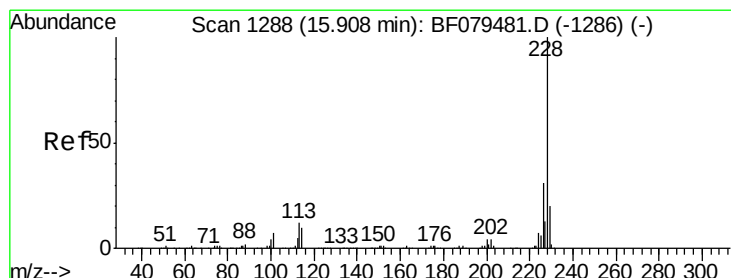
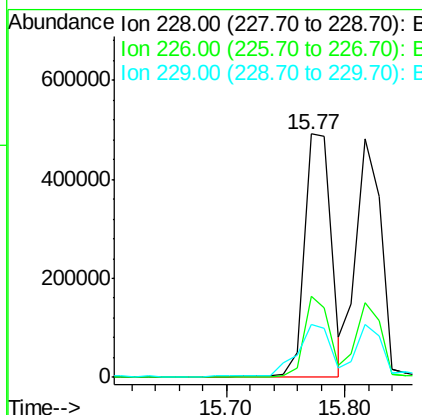
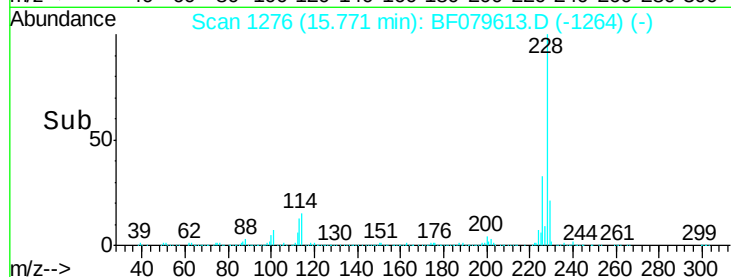
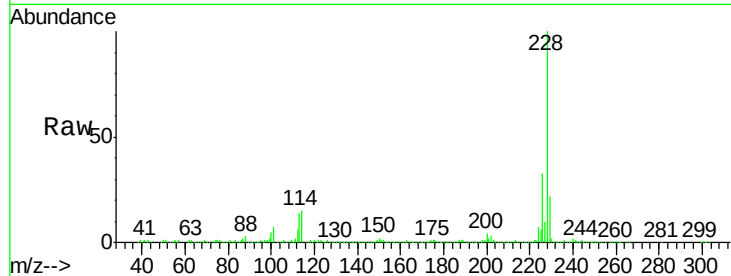
#80
Benzo(a)anthracene
Concen: 52.91 ng
RT: 15.77 min Scan# 1276
Delta R.T. -0.06 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Instrument :
BNA_F
ClientSampleId :
PENRD8.19(5)

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.2	22.8	34.2
229	21.7	15.9	23.9

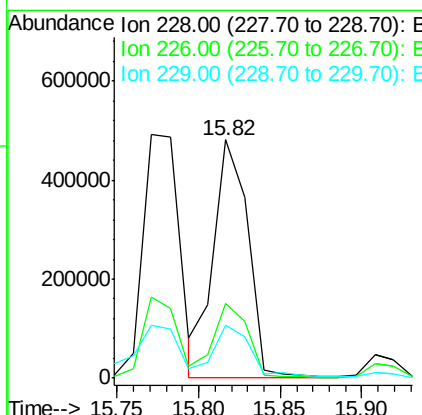
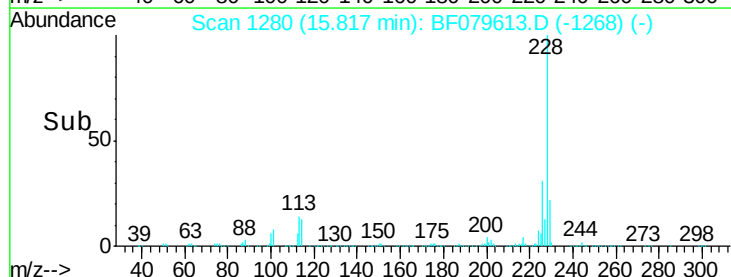
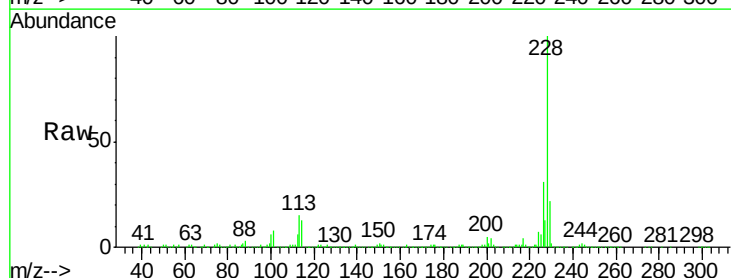
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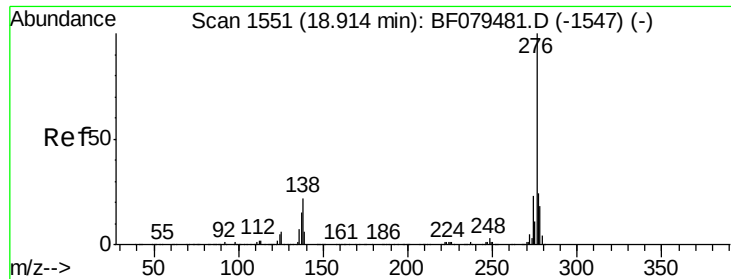
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#82
Chrysene
Concen: 50.58 ng
RT: 15.82 min Scan# 1280
Delta R.T. -0.06 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.4
229	22.2	15.9	23.9





#85

Indeno(1,2,3-cd)pyrene

Concen: 22.63 ng m

RT: 18.80 min Scan# 1541

Delta R.T. -0.22 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Instrument :

BNA_F

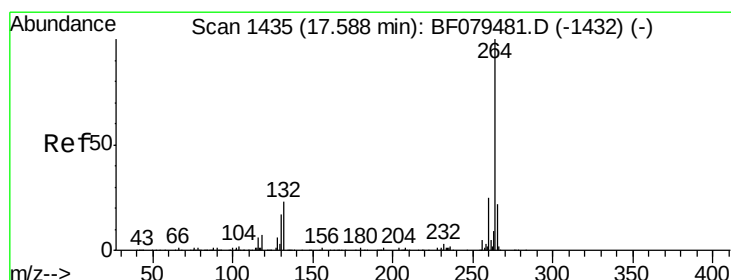
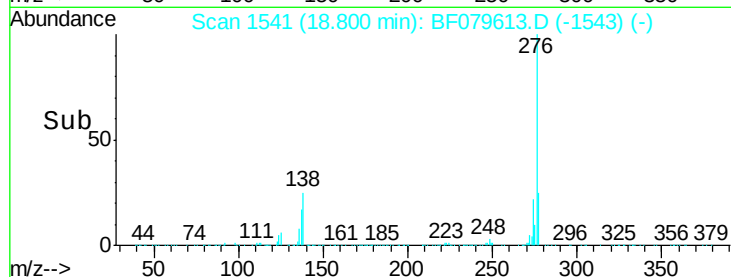
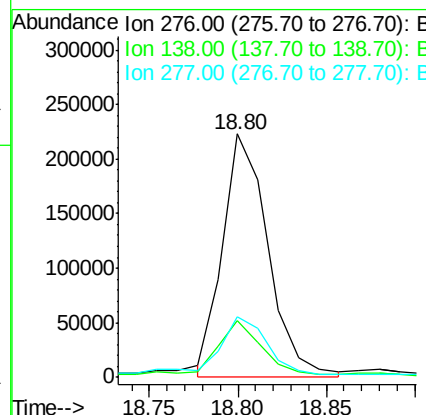
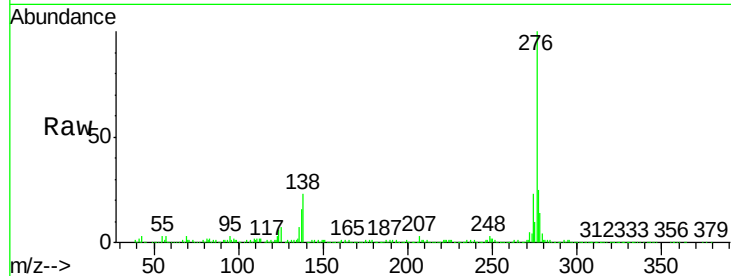
ClientSampleId :

PENRD8.19(5)

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	401517		
138	2.6	21.4	32.2#	
277	1.4	19.8	29.6#	

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#86

Perylene-d12

Concen: 20.00 ng

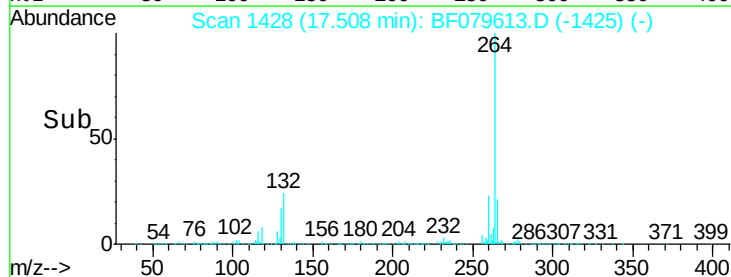
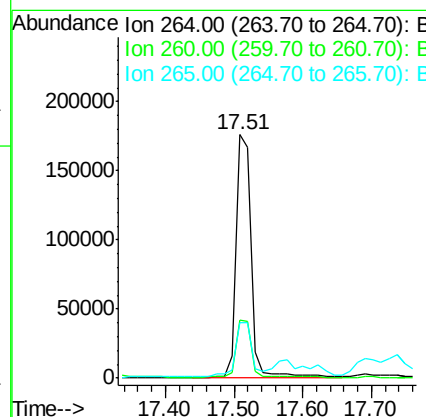
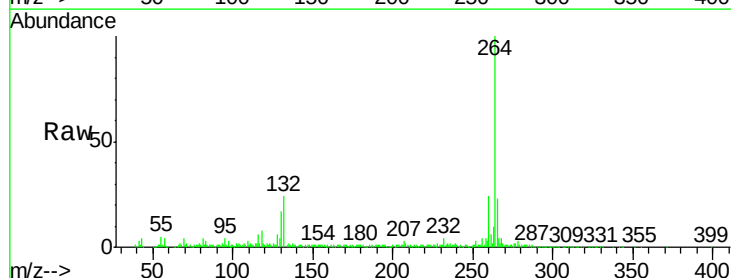
RT: 17.51 min Scan# 1428

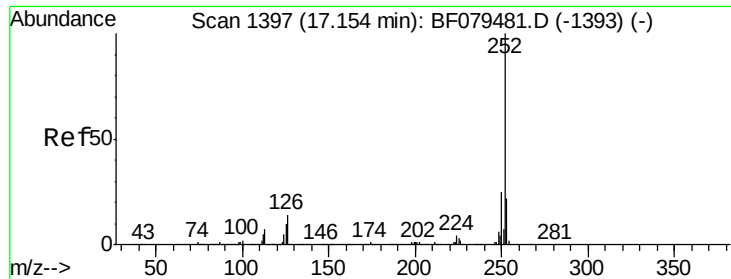
Delta R.T. -0.16 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	274502		
260	23.8	19.8	29.8	
265	22.7	17.8	26.6	





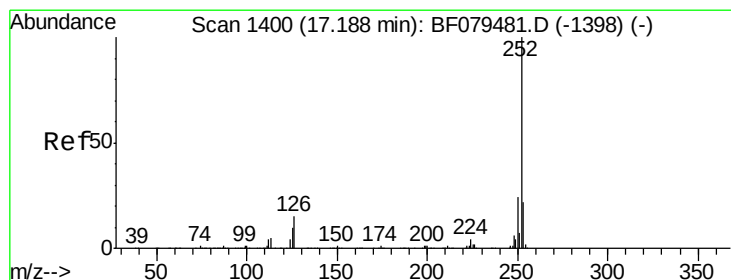
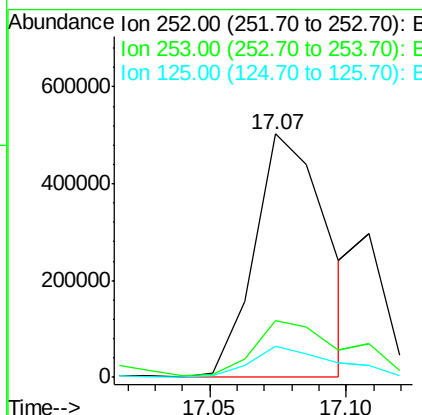
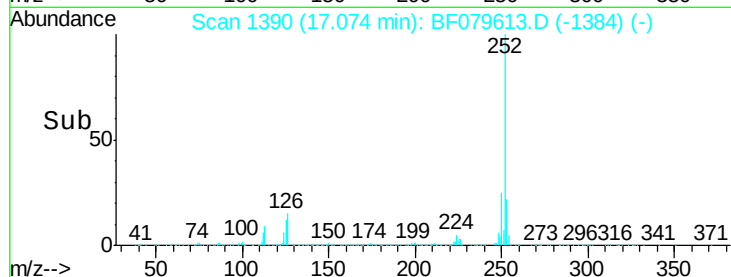
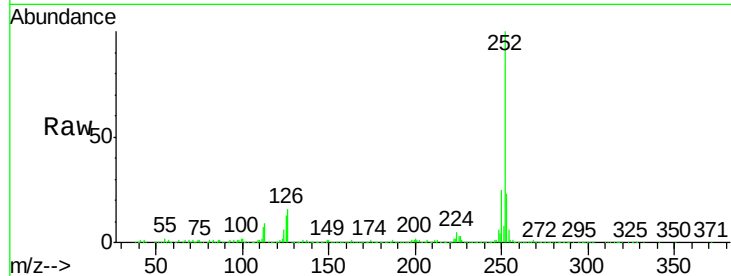
#87
Benzo(b)fluoranthene
Concen: 59.16 ng m
RT: 17.07 min Scan# 1390
Delta R.T. -0.13 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Instrument :
BNA_F
ClientSampleId :
PENRD8.19(5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	12.5	7.8	11.6

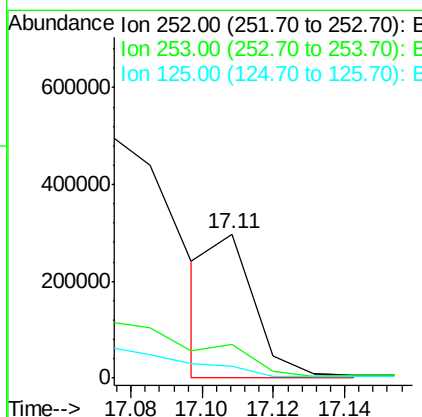
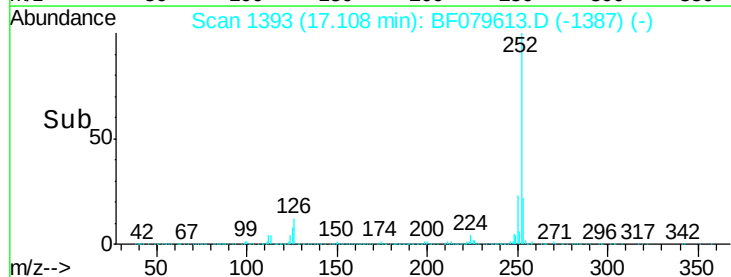
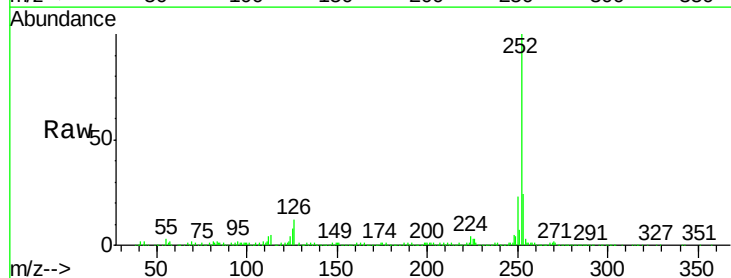
Manual Integrations
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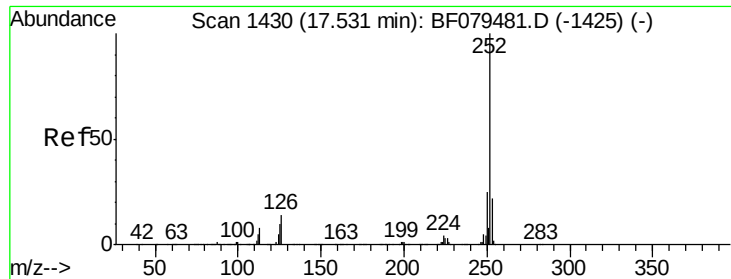
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#88
Benzo(k)fluoranthene
Concen: 17.36 ng m
RT: 17.11 min Scan# 1393
Delta R.T. -0.13 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.2	25.8
125	8.4	6.8	10.2





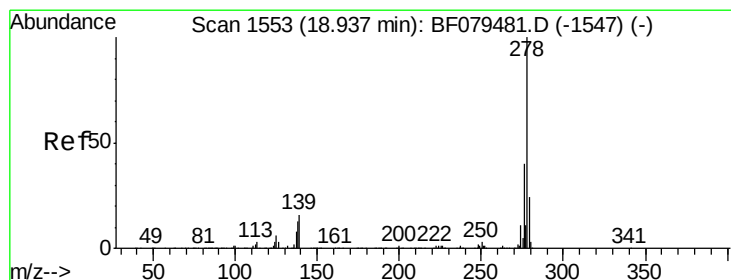
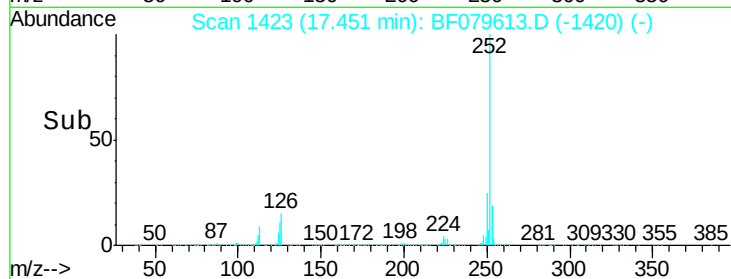
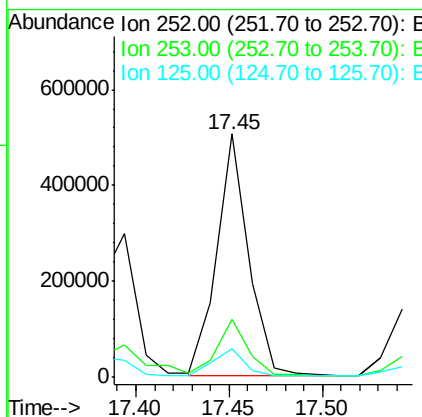
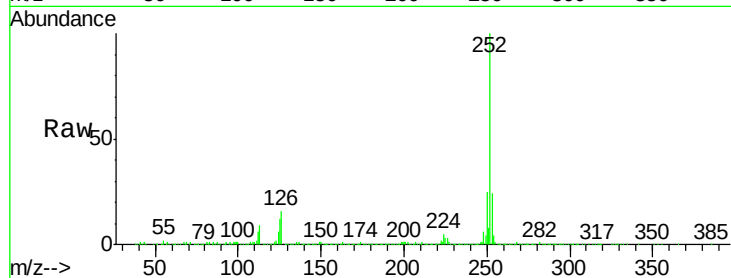
#89
Benzo(a)pyrene
Concen: 43.97 ng
RT: 17.45 min Scan# 1423
Delta R.T. -0.16 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Instrument :
BNA_F
ClientSampleId :
PENRD8.19(5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.8
125	11.6	7.9	11.9

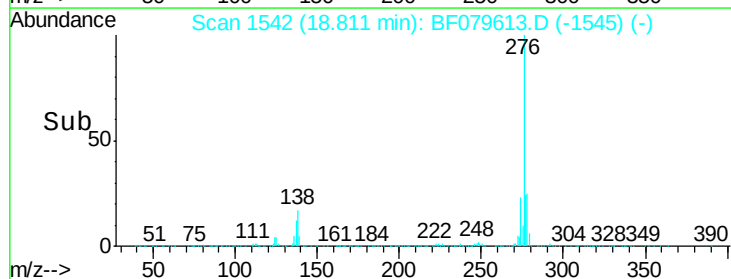
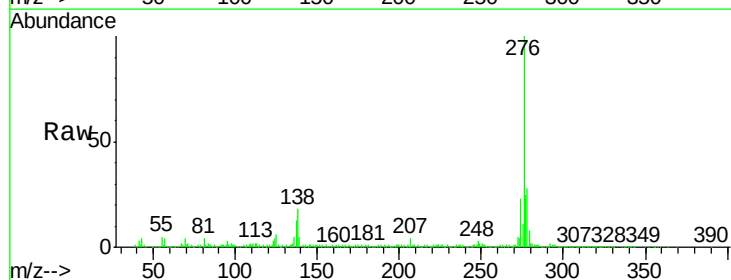
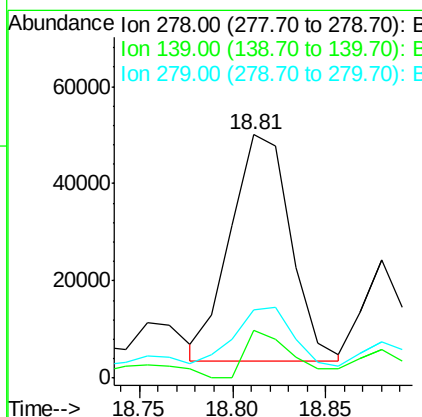
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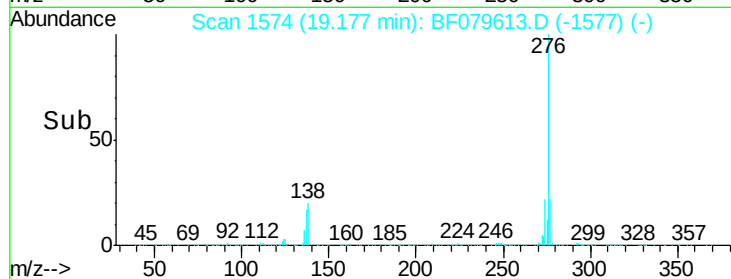
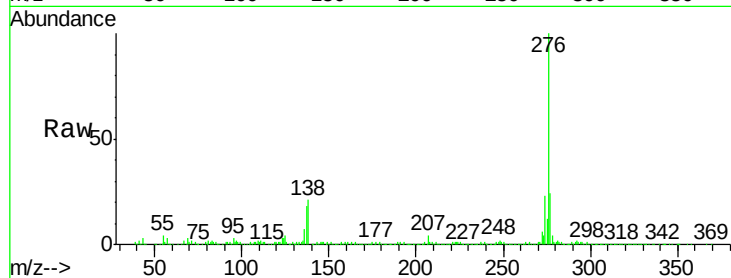
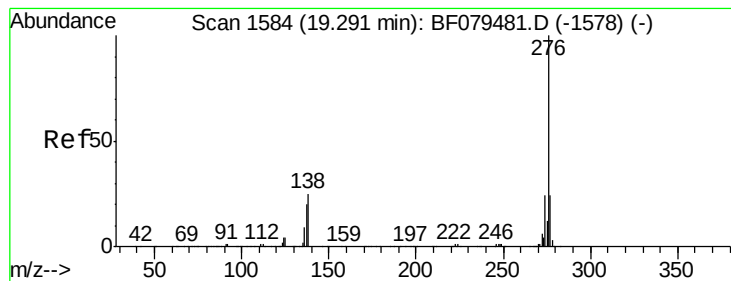
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#90
Dibenzo(a,h)anthracene
Concen: 5.95 ng m
RT: 18.81 min Scan# 1542
Delta R.T. -0.23 min
Lab File: BF079613.D
Acq: 30 May 2015 20:10

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.6	12.8	19.2#
279	28.0	19.1	28.7





#91

Benzo(g,h,i)perylene

Concen: 24.98 ng

RT: 19.18 min Scan# 1574

Delta R.T. -0.23 min

Lab File: BF079613.D

Acq: 30 May 2015 20:10

Instrument :

BNA_F

ClientSampleId :

PENRD8.19(5)

Tgt	Ion	276	Resp:	362863
Ion	Ratio	Lower	Upper	
276	100			
277	23.8	19.1	28.7	
138	20.8	20.1	30.1	

Manual Integrations
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