

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
 Data File : BF079620.D
 Acq On : 30 May 2015 23:33
 Operator : TP/IZ
 Sample : G2420-12 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.6(5)

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Quant Time: Jun 01 03:21:09 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 01 02:59:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	65536	20.00	ng	0.00
21) Naphthalene-d8	8.51	136	261599	20.00	ng	0.00
38) Acenaphthene-d10	10.67	164	125648	20.00	ng	0.00
63) Phenanthrene-d10	12.51	188	238725	20.00	ng	0.00
75) Chrysene-d12	15.78	240	257188	20.00	ng	0.00
86) Perylene-d12	17.44	264	255847	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	87127	23.06	ng	0.01
7) Phenol-d6	6.54	99	112665	23.39	ng	0.00
23) Nitrobenzene-d5	7.63	82	62852	13.89	ng	0.00
41) 2,4,6-Tribromophenol	11.66	330	30688	22.24	ng	0.00
44) 2-Fluorobiphenyl	9.86	172	116818	13.26	ng	0.00
78) Terphenyl-d14	14.50	244	136055	12.42	ng	0.00
Target Compounds						Qvalue
51) Acenaphthene	10.71	154	29715	4.04	ng	99
54) Dibenzofuran	10.94	168	22637	2.09	ng	92
57) Fluorene	11.36	166	30126	3.37	ng	98
70) Phenanthrene	12.54	178	564500	43.10	ng	99
71) Anthracene	12.61	178	95030	7.15	ng	99
72) Carbazole	12.82	167	69155	5.40	ng	97
74) Fluoranthene	14.01	202	900644	64.13	ng	97
77) Pyrene	14.29	202	766205	48.09	ng	97
80) Benzo(a)anthracene	15.77	228	371752	25.13	ng	98
82) Chrysene	15.82	228	299901	21.33	ng	98
85) Indeno(1,2,3-cd)pyrene	18.71	276	227204	12.56	ng	94
87) Benzo(b)fluoranthene	17.03	252	442321m	30.31	ng	
88) Benzo(k)fluoranthene	17.05	252	156309m	11.98	ng	
89) Benzo(a)pyrene	17.38	252	311524	23.42	ng	99
90) Dibenzo(a,h)anthracene	18.72	278	46725	2.04	ng	# 88
91) Benzo(g,h,i)perylene	19.07	276	225924	15.82	ng	96

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

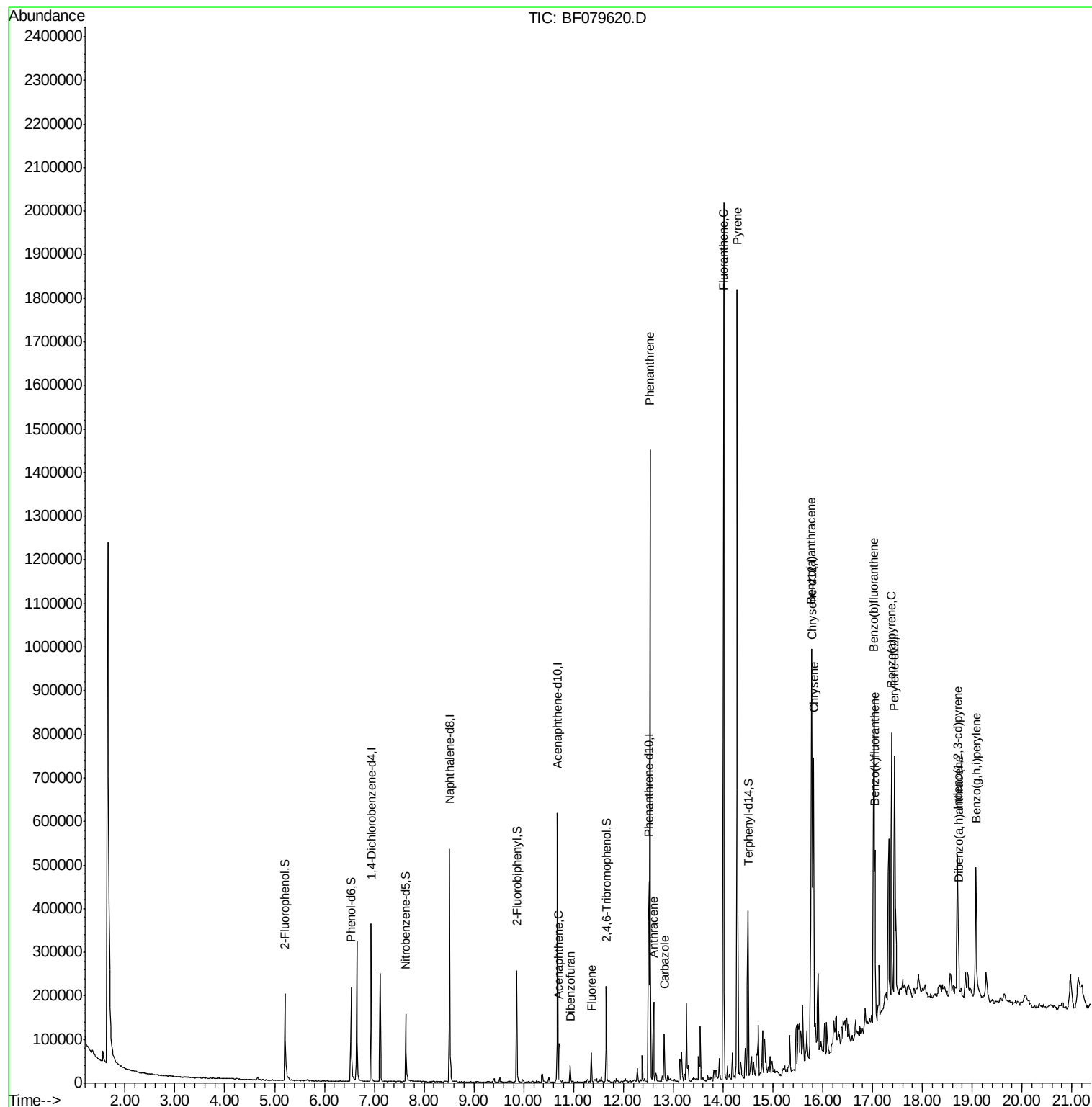
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
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ALS Vial : 23 Sample Multiplier: 1

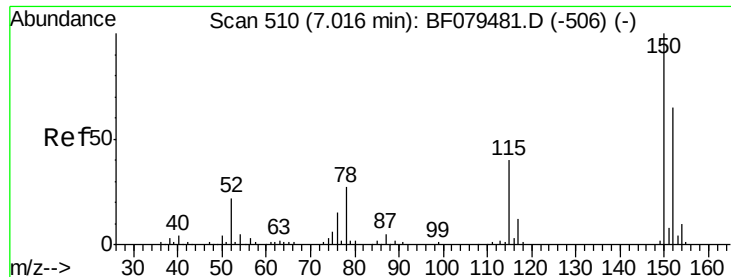
Instrument :
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PENRD8.6(5)

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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
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#1

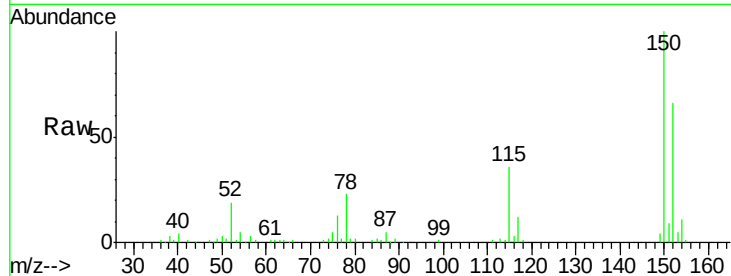
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.94 min Scan# 503
Delta R.T. 0.00 min
Lab File: BF079620.D
Acq: 30 May 2015 23:33

Instrument :
BNA_F
ClientSampleId :
PENRD8.6(5)

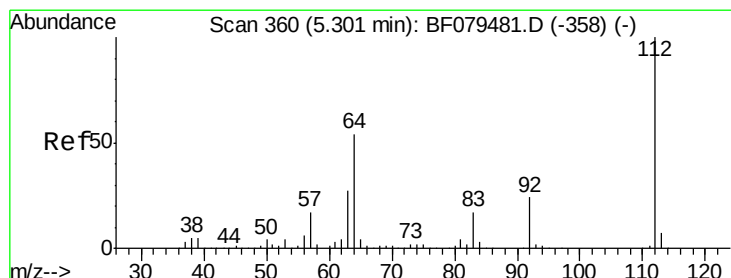
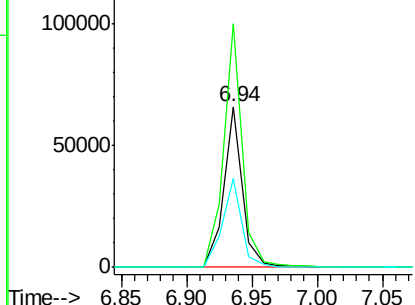
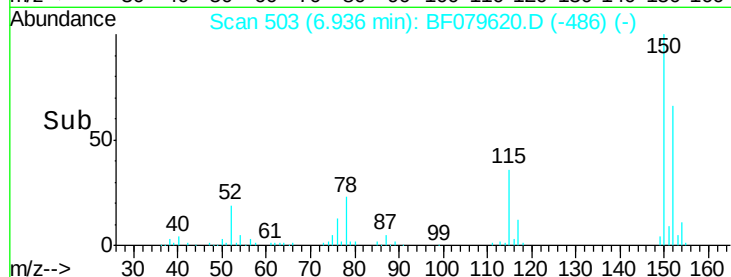
Tgt Ion	Ratio	Lower	Upper
152	100		
150	151.3	124.0	186.0
115	54.8	49.6	74.4

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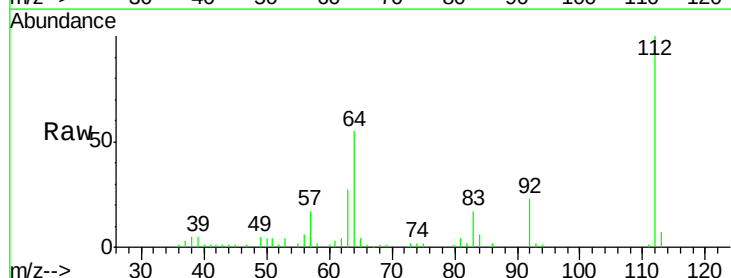
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



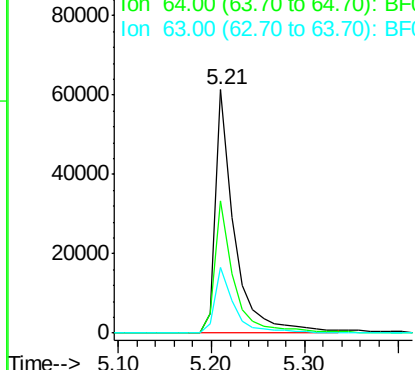
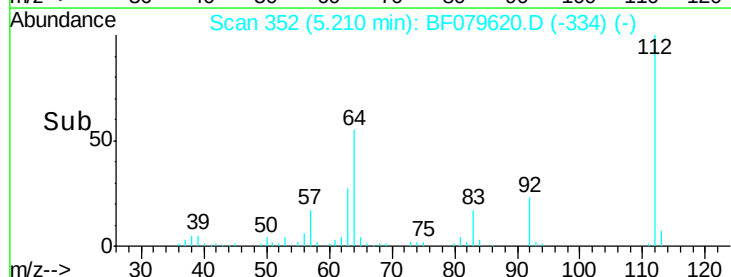
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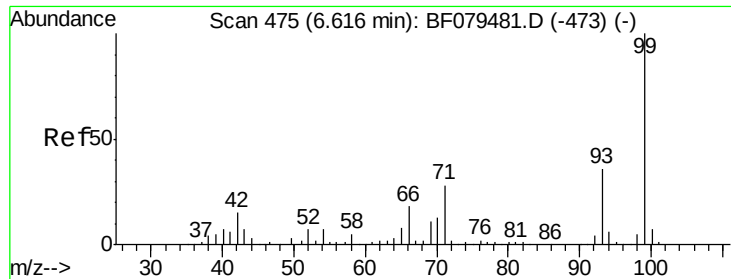
2-Fluorophenol
Concen: 23.06 ng
RT: 5.21 min Scan# 352
Delta R.T. 0.01 min
Lab File: BF079620.D
Acq: 30 May 2015 23:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	43.5	65.3
63	26.7	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: 23.39 ng

RT: 6.54 min Scan# 468

Delta R.T. 0.00 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Instrument :

BNA_F

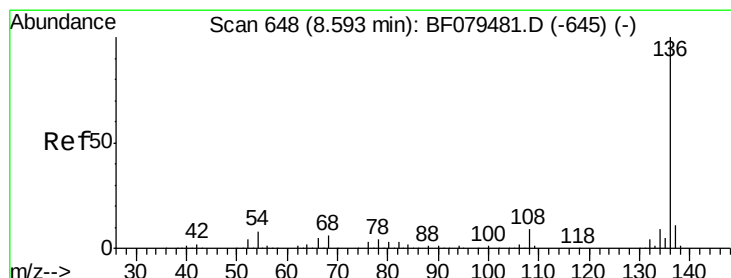
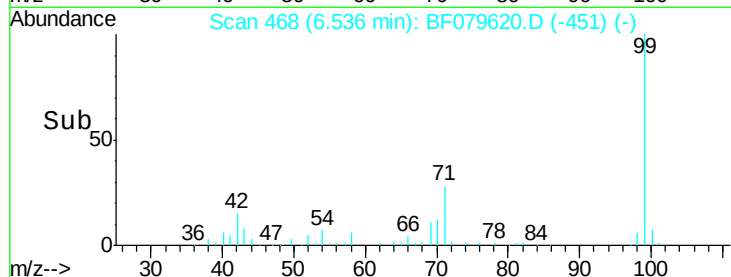
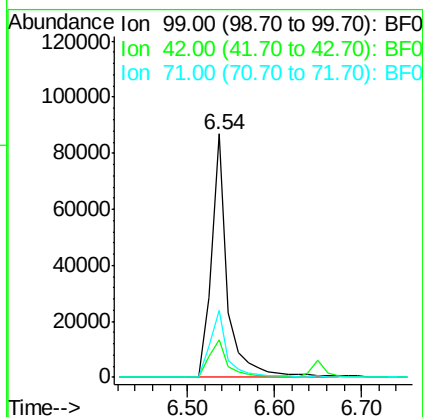
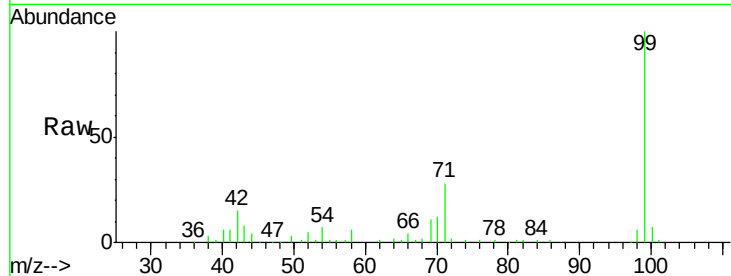
ClientSampleId :

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Tgt Ion:	99	Resp:	112665
Ion Ratio	Lower	Upper	
99	100		
42	15.2	11.9	17.9
71	27.7	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

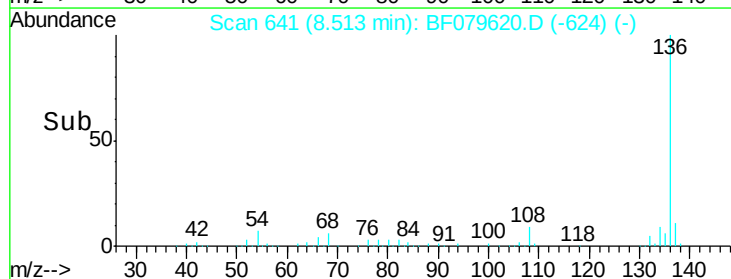
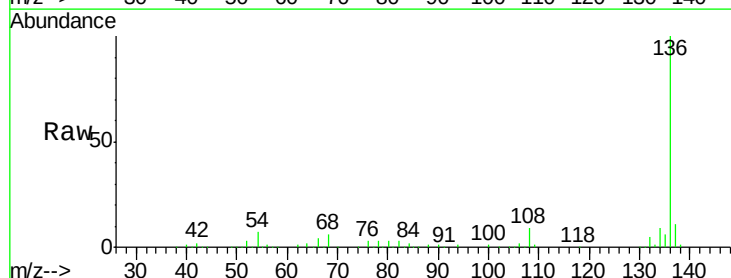
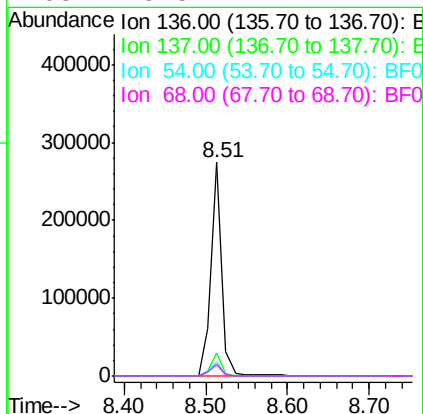
RT: 8.51 min Scan# 641

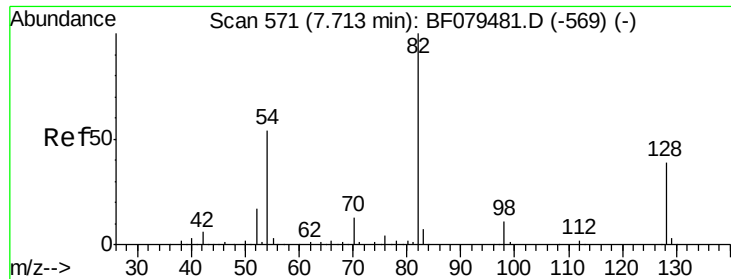
Delta R.T. 0.00 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Tgt Ion:	136	Resp:	261599
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.5	12.7
54	6.6	6.6	9.8
68	5.5	4.7	7.1





#23

Nitrobenzene-d5

Concen: 13.89 ng

RT: 7.63 min Scan# 564

Delta R.T. 0.00 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Instrument :

BNA_F

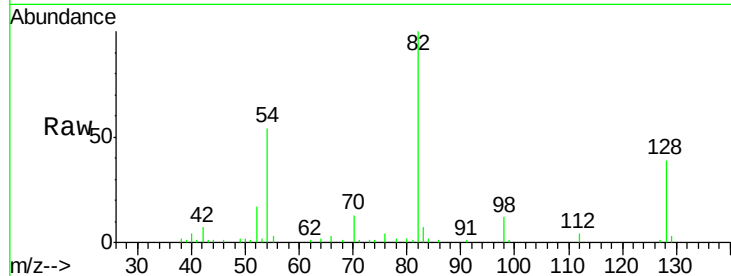
ClientSampleId :

PENRD8.6(5)

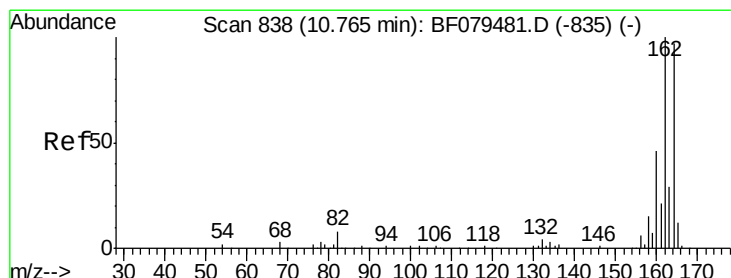
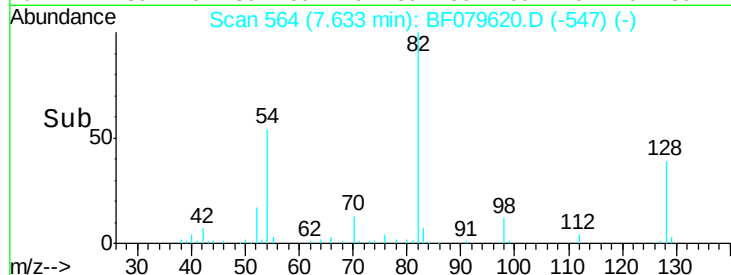
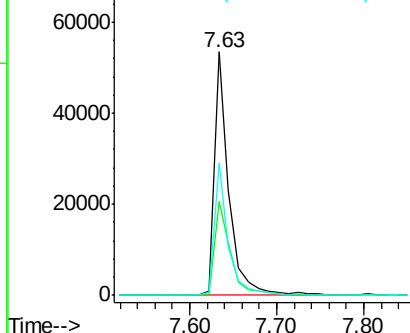
Tgt Ion:	82	Resp:	62852
Ion Ratio	Lower	Upper	
82	100		
128	38.7	30.8	46.2
54	54.2	42.8	64.2

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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



#38

Acenaphthene-d10

Concen: 20.00 ng

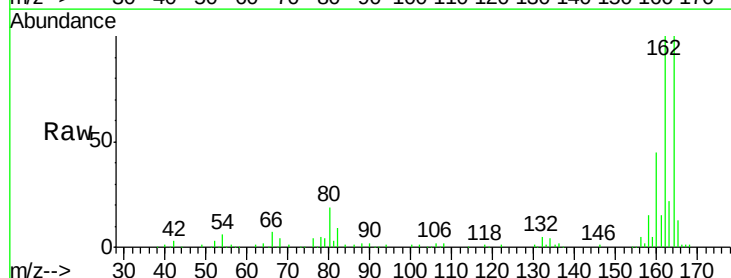
RT: 10.67 min Scan# 830

Delta R.T. 0.00 min

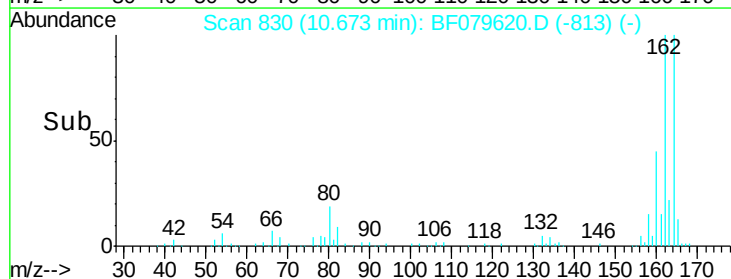
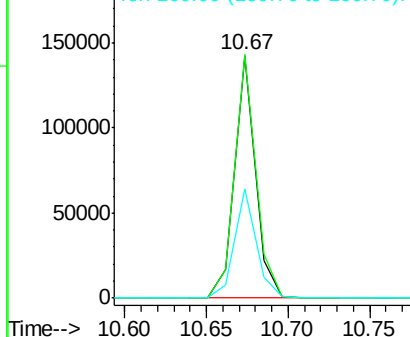
Lab File: BF079620.D

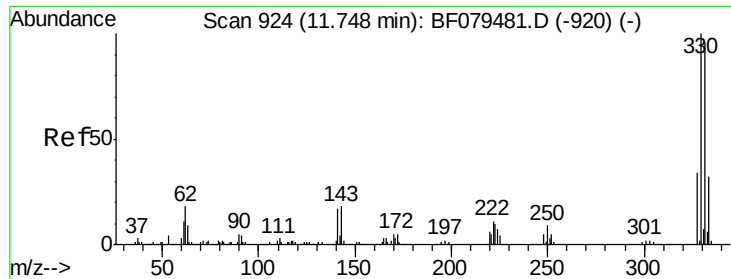
Acq: 30 May 2015 23:33

Tgt Ion:	164	Resp:	125648
Ion Ratio	Lower	Upper	
164	100		
162	100.4	82.6	124.0
160	45.3	37.7	56.5



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





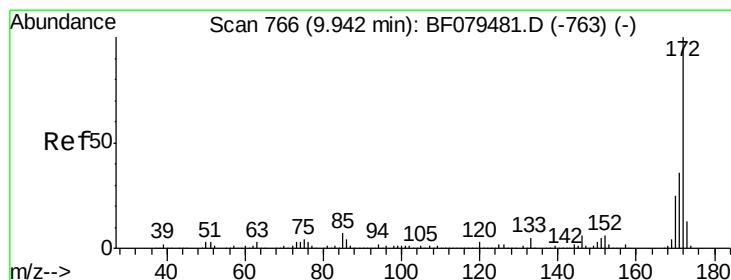
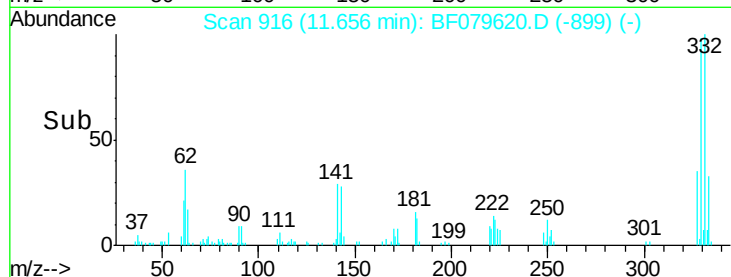
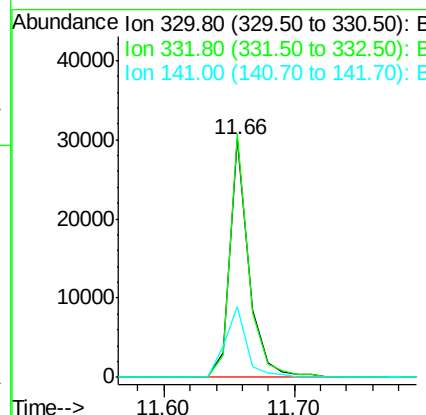
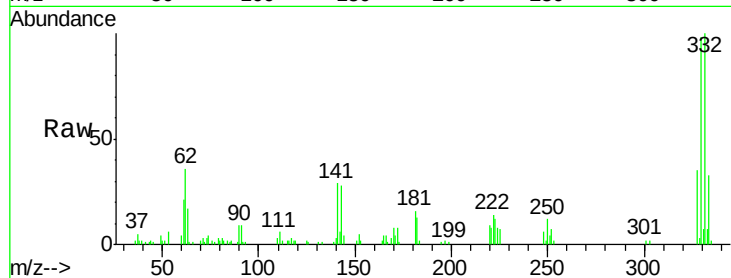
#41
 2,4,6-Tribromophenol
 Concen: 22.24 ng
 RT: 11.66 min Scan# 916
 Delta R.T. 0.00 min
 Lab File: BF079620.D
 Acq: 30 May 2015 23:33

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.6(5)

Tgt Ion	Ratio	Resp Lower	Upper
330	100		
332	100.4	0.0	0.0#
141	33.7	0.0	0.0#

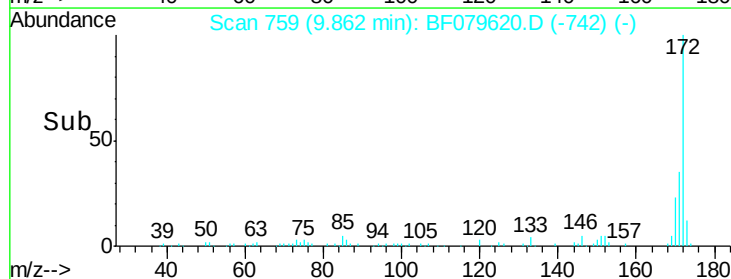
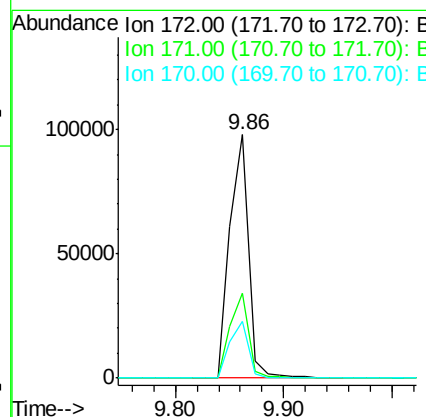
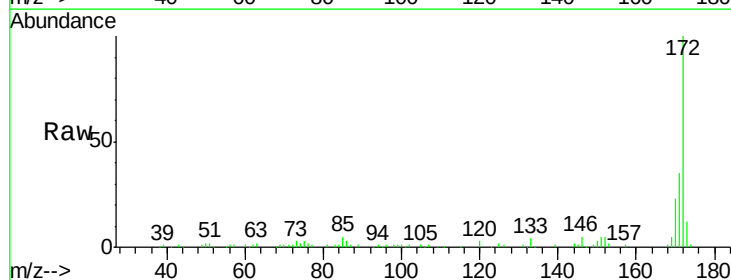
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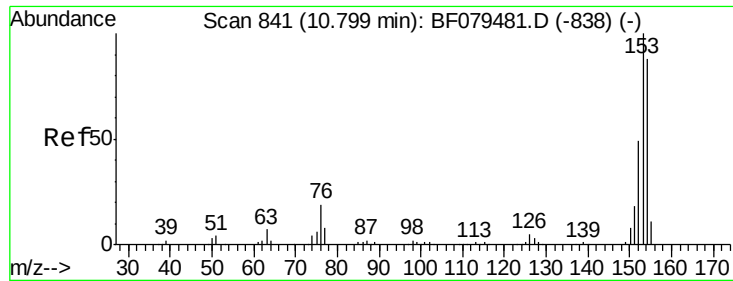
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#44
 2-Fluorobiphenyl
 Concen: 13.26 ng
 RT: 9.86 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: BF079620.D
 Acq: 30 May 2015 23:33

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	34.7	28.5	42.7
170	23.2	19.7	29.5





#51

Acenaphthene

Concen: 4.04 ng

RT: 10.71 min Scan# 833

Delta R.T. -0.01 min

Lab File: BF079620.D

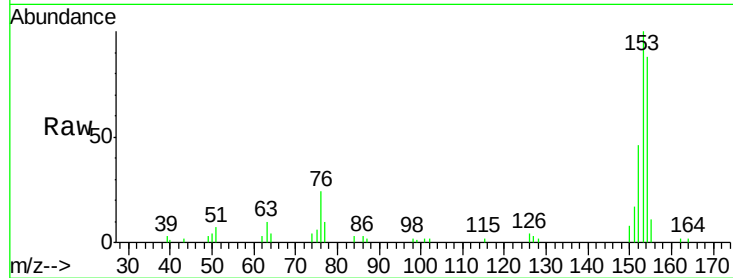
Acq: 30 May 2015 23:33

Instrument :

BNA_F

ClientSampleId :

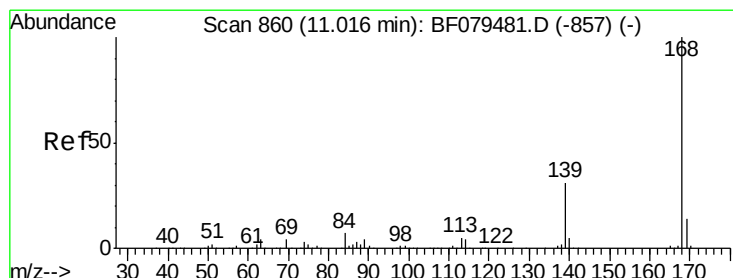
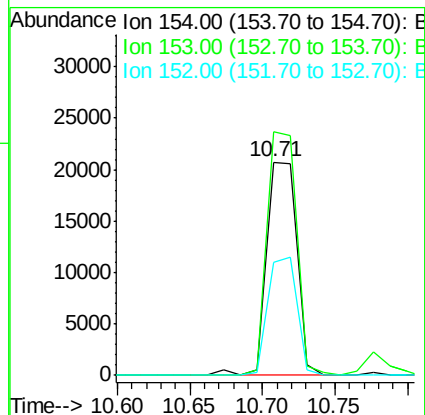
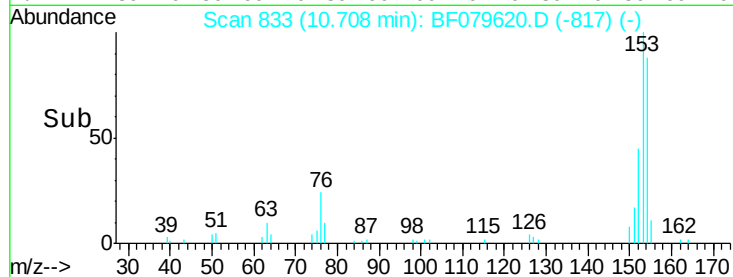
PENRD8.6(5)



Tgt Ion:	154	Resp:	29715
Ion Ratio	Lower	Upper	
154	100		
153	114.1	91.1	136.7
152	52.7	44.6	66.8

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#54

Dibenzofuran

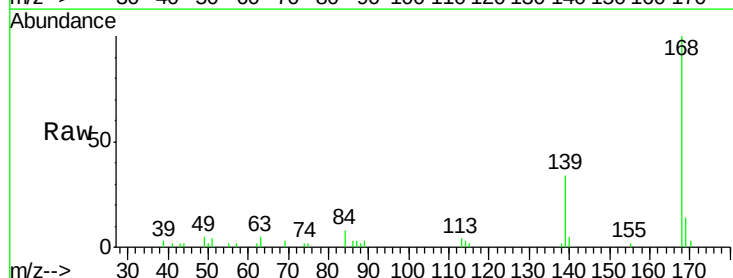
Concen: 2.09 ng

RT: 10.94 min Scan# 853

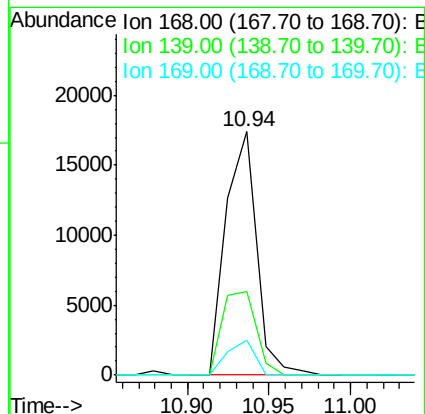
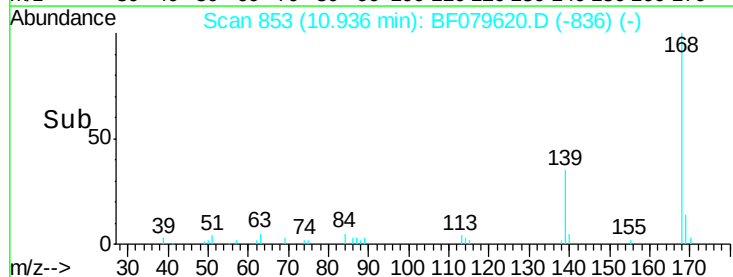
Delta R.T. 0.00 min

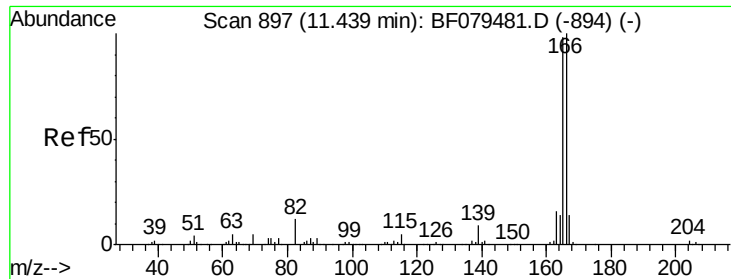
Lab File: BF079620.D

Acq: 30 May 2015 23:33



Tgt Ion:	168	Resp:	22637
Ion Ratio	Lower	Upper	
168	100		
139	34.3	32.9	49.3
169	14.1	11.1	16.7





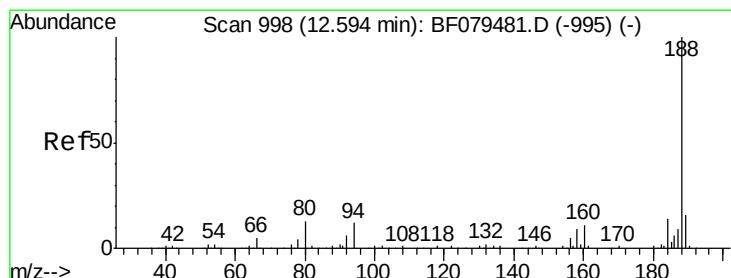
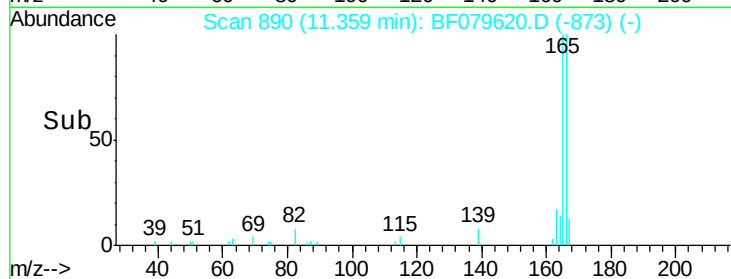
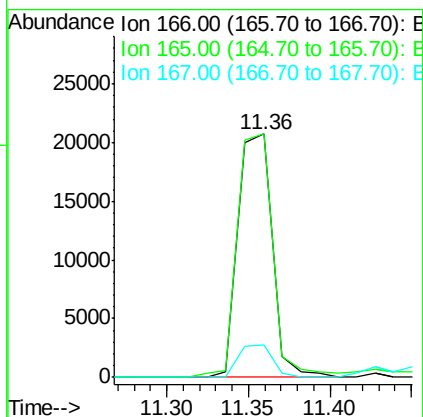
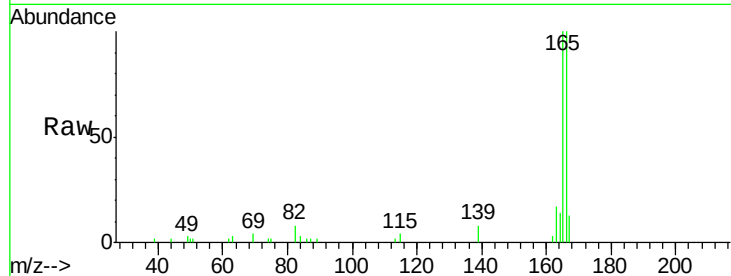
#57
 Fluorene
 Concen: 3.37 ng
 RT: 11.36 min Scan# 890
 Delta R.T. 0.00 min
 Lab File: BF079620.D
 Acq: 30 May 2015 23:33

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 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.0	78.6	117.8
167	13.5	10.8	16.2

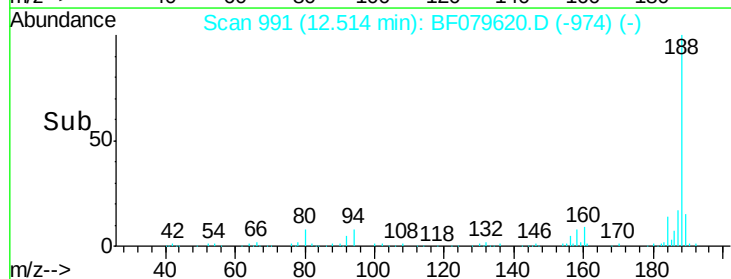
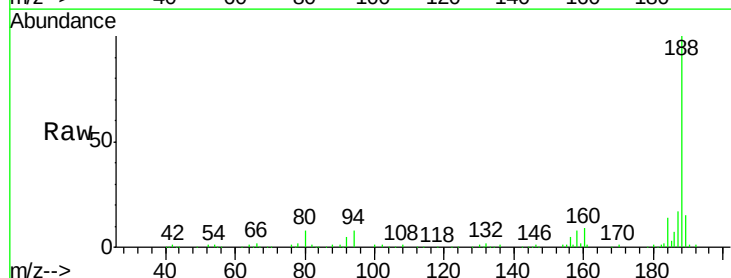
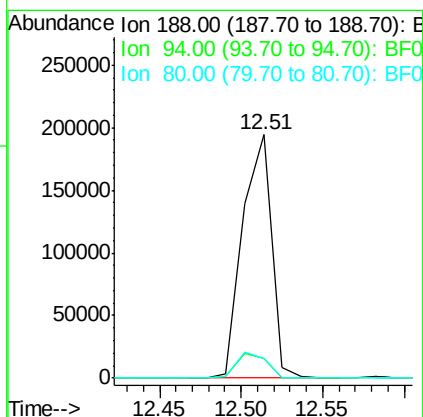
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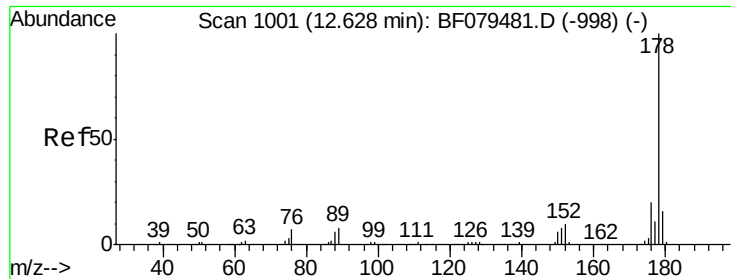
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#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.51 min Scan# 991
 Delta R.T. 0.00 min
 Lab File: BF079620.D
 Acq: 30 May 2015 23:33

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.0	9.8	14.6#
80	7.8	10.5	15.7#





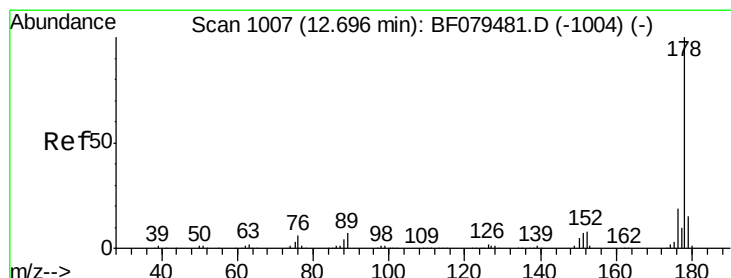
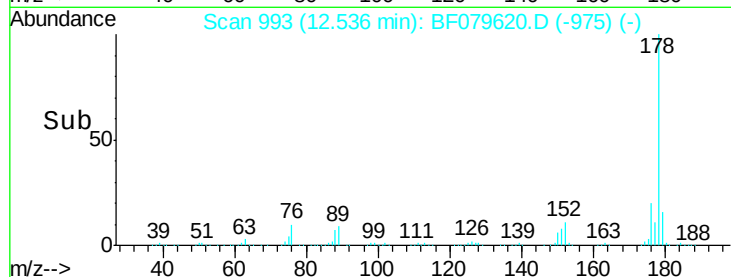
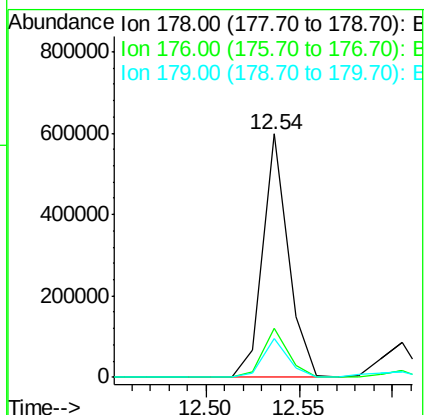
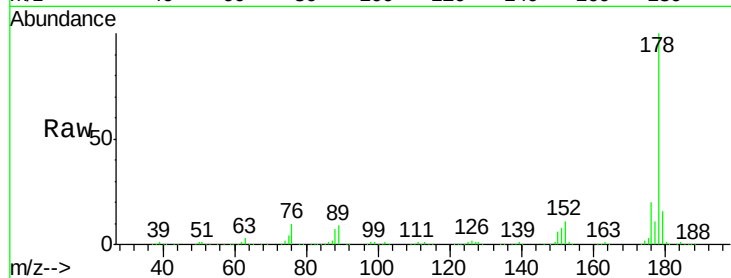
#70
 Phenanthrene
 Concen: 43.10 ng
 RT: 12.54 min Scan# 993
 Delta R.T. 0.00 min
 Lab File: BF079620.D
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 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.7	23.5
179	15.9	12.4	18.6

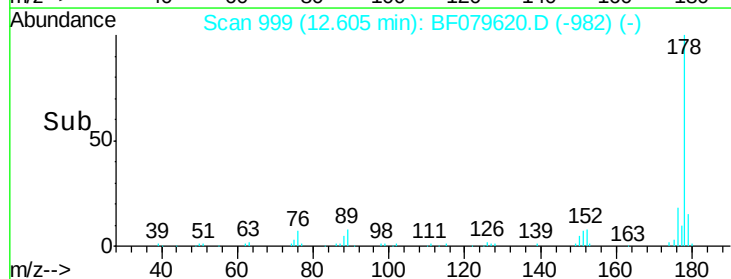
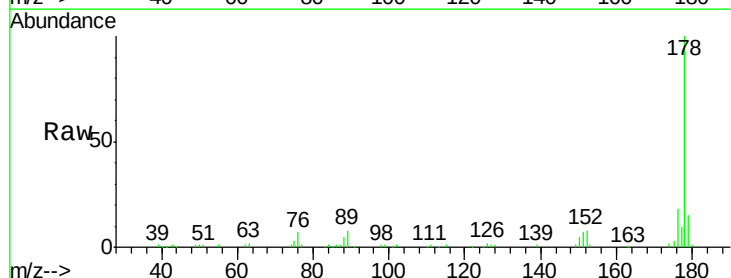
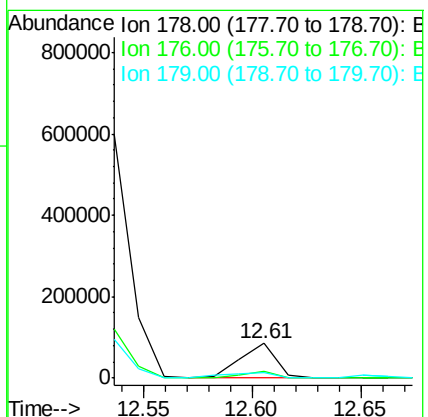
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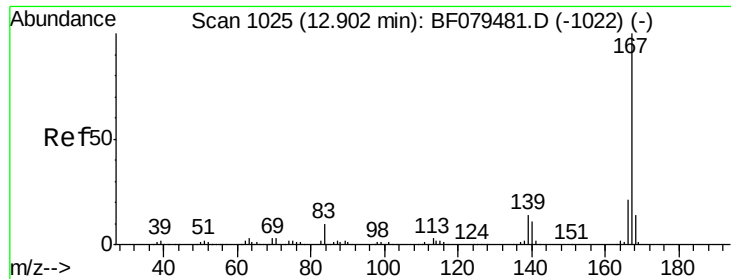
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#71
 Anthracene
 Concen: 7.15 ng
 RT: 12.61 min Scan# 999
 Delta R.T. 0.00 min
 Lab File: BF079620.D
 Acq: 30 May 2015 23:33

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.3	22.9
179	15.1	12.2	18.4





#72

Carbazole

Concen: 5.40 ng

RT: 12.82 min Scan# 1018

Delta R.T. 0.00 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Instrument :

BNA_F

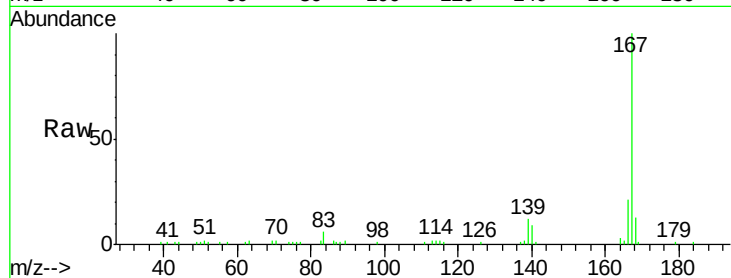
ClientSampleId :

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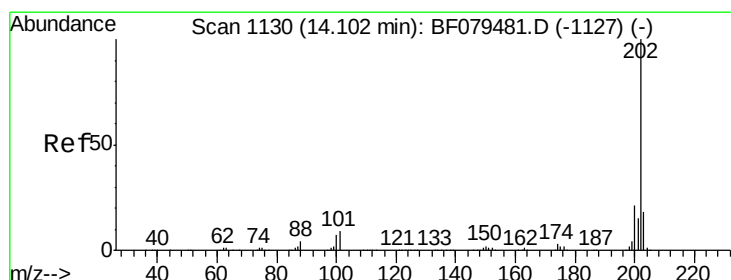
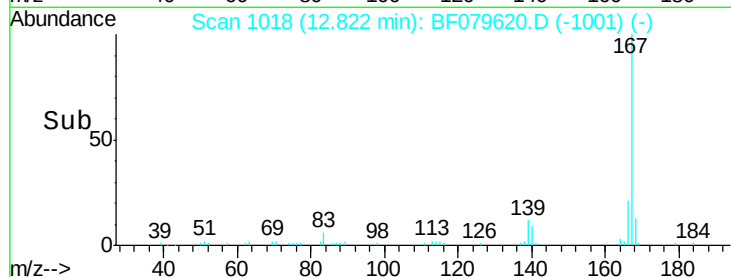
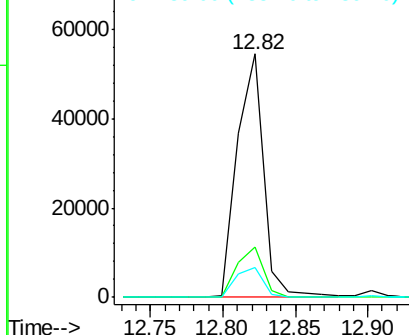
Tgt Ion:	167	Resp:	69155
Ion Ratio	Lower	Upper	
167	100		
166	20.7	17.0	25.4
139	12.0	11.2	16.8

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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: 64.13 ng

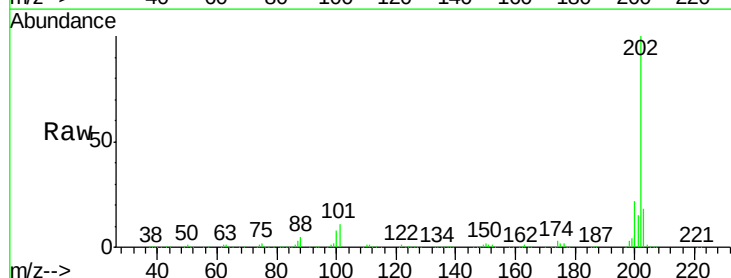
RT: 14.01 min Scan# 1122

Delta R.T. 0.00 min

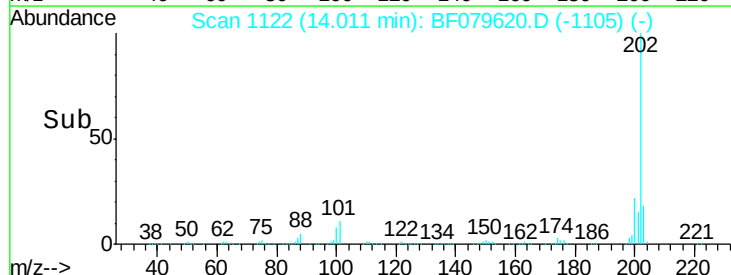
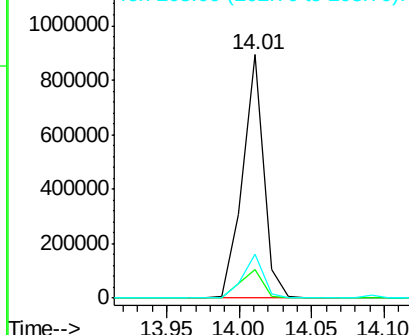
Lab File: BF079620.D

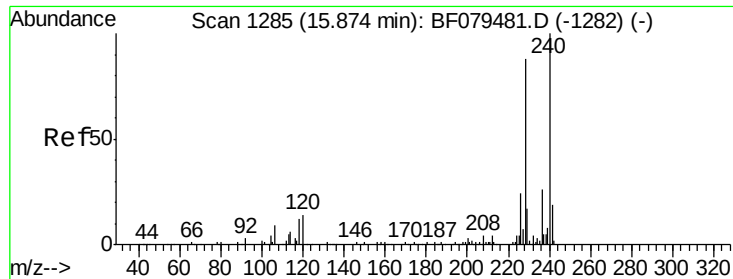
Acq: 30 May 2015 23:33

Tgt Ion:	202	Resp:	900644
Ion Ratio	Lower	Upper	
202	100		
101	11.5	0.0	29.3
203	18.1	0.0	37.6



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: 15.78 min Scan# 1277

Delta R.T. 0.00 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Instrument :

BNA_F

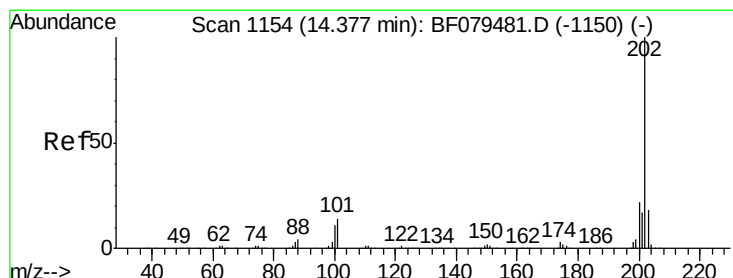
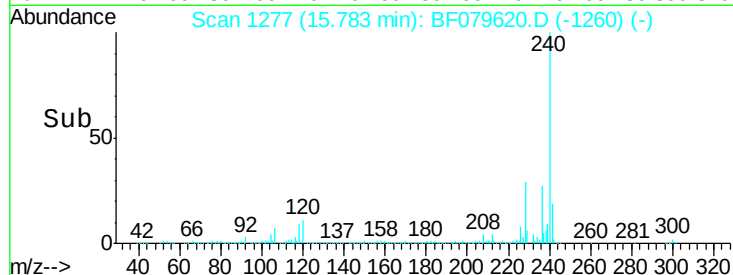
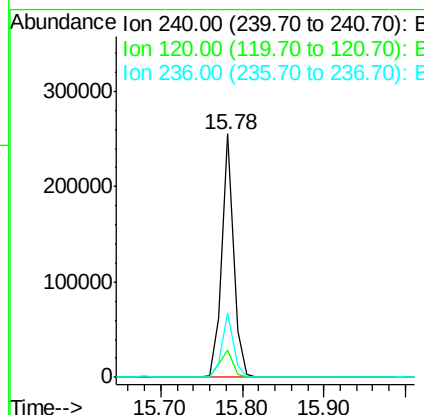
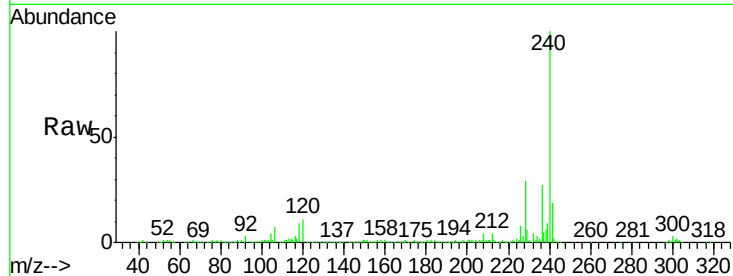
ClientSampleId :

PENRD8.6(5)

Tgt Ion:	240	Resp:	257188
Ion Ratio	Lower	Upper	
240	100		
120	11.2	10.8	16.2
236	26.6	21.0	31.6

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#77

Pyrene

Concen: 48.09 ng

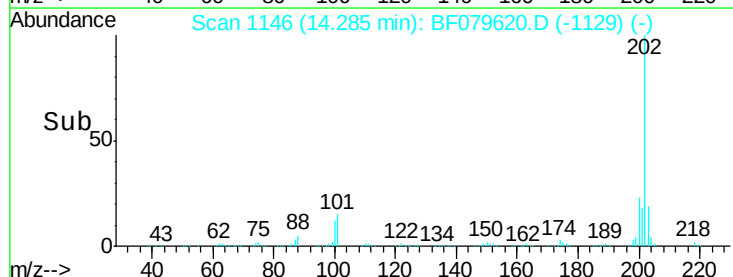
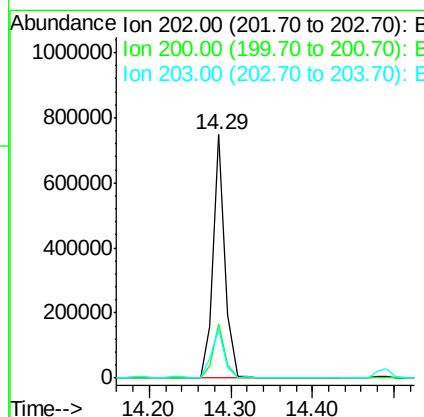
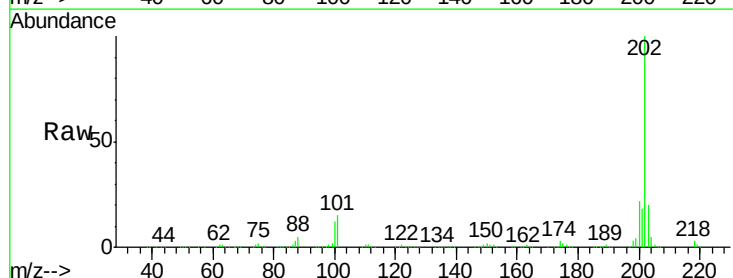
RT: 14.29 min Scan# 1146

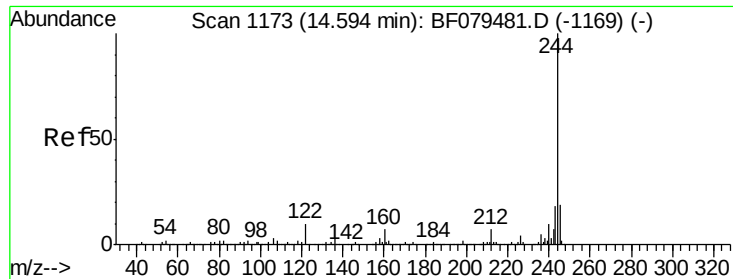
Delta R.T. 0.00 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Tgt Ion:	202	Resp:	766205
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.5	26.3
203	20.1	14.4	21.6





#78

Terphenyl-d14

Concen: 12.42 ng

RT: 14.50 min Scan# 1165

Delta R.T. 0.00 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Instrument :

BNA_F

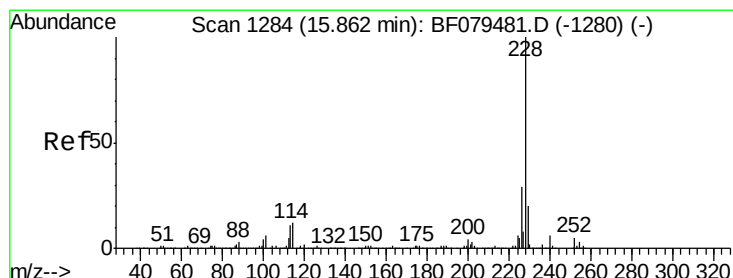
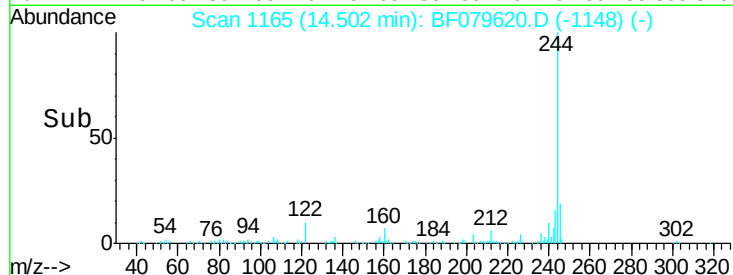
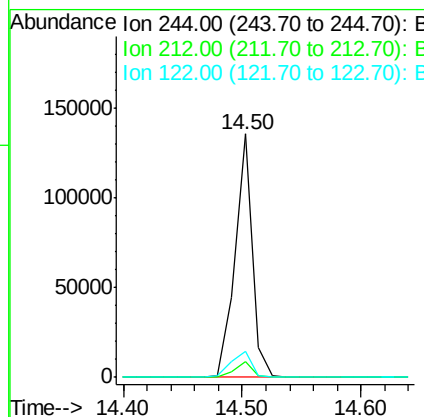
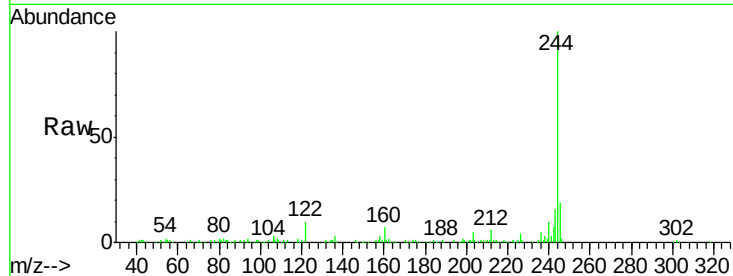
ClientSampleId :

PENRD8.6(5)

Tgt Ion:	244	Resp:	136055
Ion Ratio		Lower	Upper
244	100		
212	6.3	5.2	7.8
122	10.5	8.0	12.0

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#80

Benzo(a)anthracene

Concen: 25.13 ng

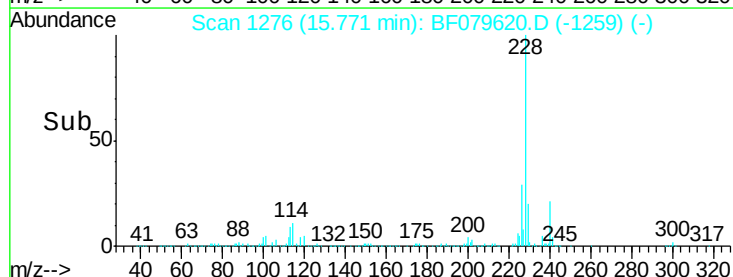
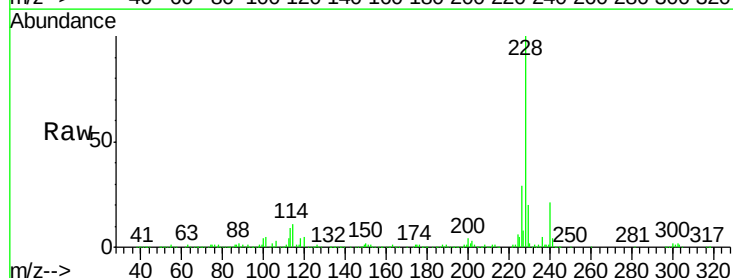
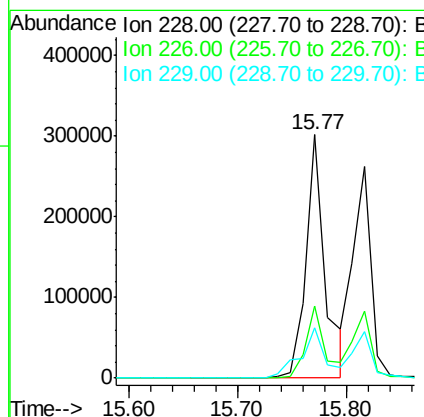
RT: 15.77 min Scan# 1276

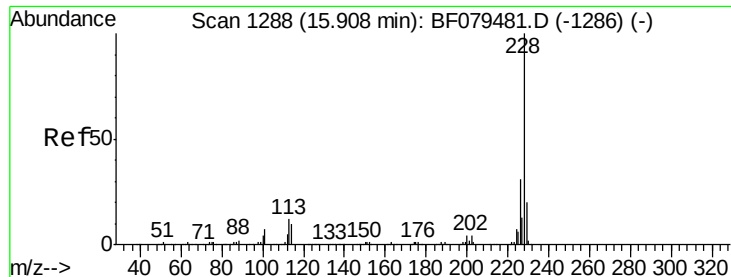
Delta R.T. 0.00 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Tgt Ion:	228	Resp:	371752
Ion Ratio		Lower	Upper
228	100		
226	29.5	22.8	34.2
229	20.5	15.9	23.9





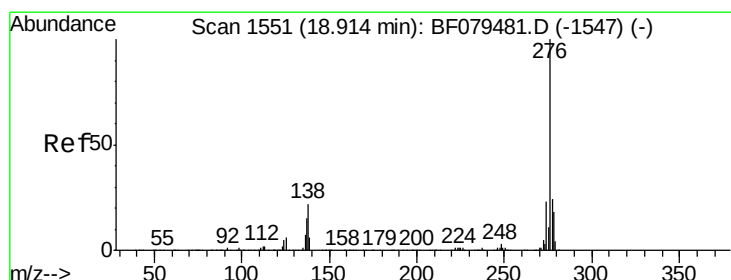
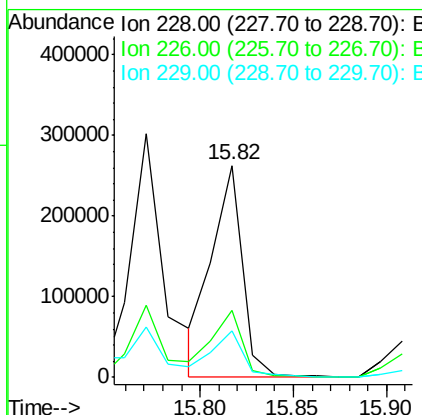
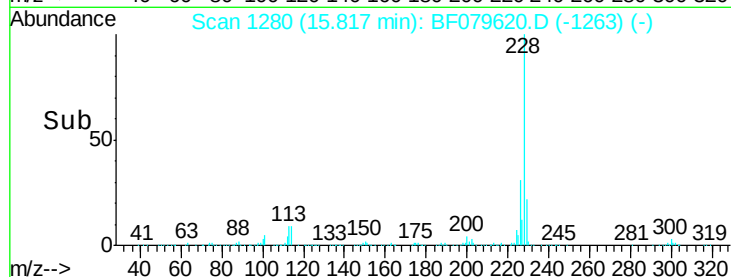
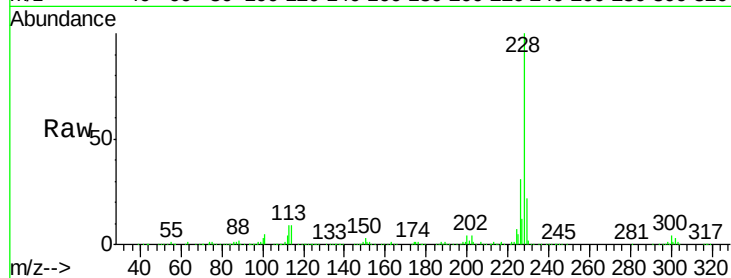
#82
Chrysene
Concen: 21.33 ng
RT: 15.82 min Scan# 1280
Delta R.T. 0.00 min
Lab File: BF079620.D
Acq: 30 May 2015 23:33

Instrument :
BNA_F
ClientSampleId :
PENRD8.6(5)

Tgt Ion:	228	Resp:	299901
Ion Ratio	Lower	Upper	
228	100		
226	31.3	25.0	37.4
229	22.0	15.9	23.9

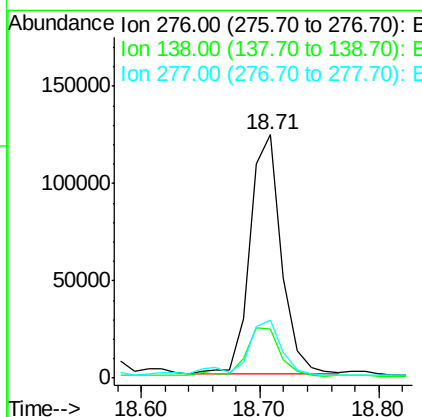
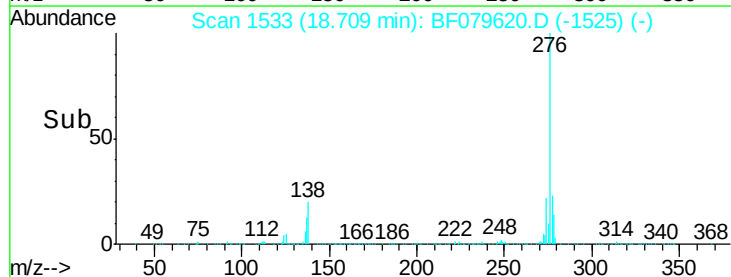
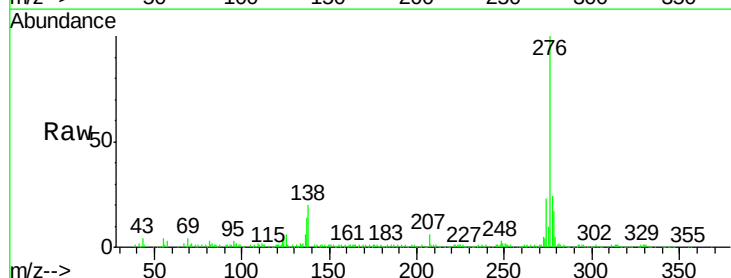
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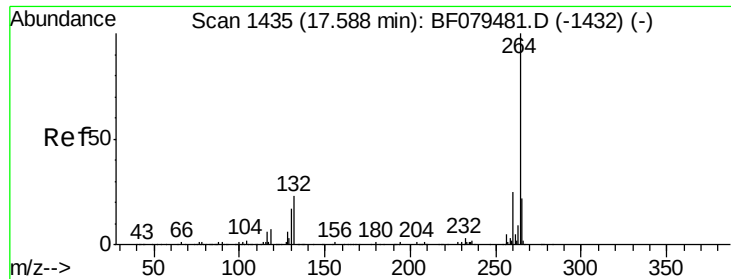
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#85
Indeno(1,2,3-cd)pyrene
Concen: 12.56 ng
RT: 18.71 min Scan# 1533
Delta R.T. -0.10 min
Lab File: BF079620.D
Acq: 30 May 2015 23:33

Tgt Ion:	276	Resp:	227204
Ion Ratio	Lower	Upper	
276	100		
138	22.3	21.4	32.2
277	25.8	19.8	29.6





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.44 min Scan# 1422

Delta R.T. -0.08 min

Lab File: BF079620.D

Acq: 30 May 2015 23:33

Instrument :

BNA_F

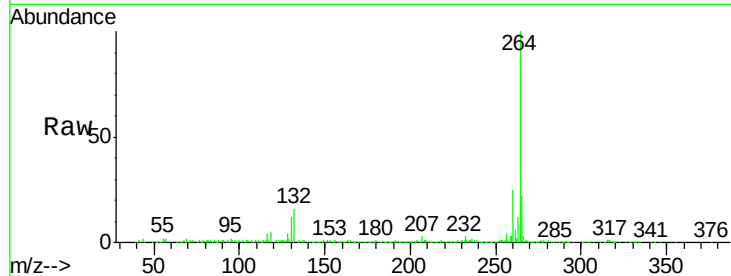
ClientSampleId :

PENRD8.6(5)

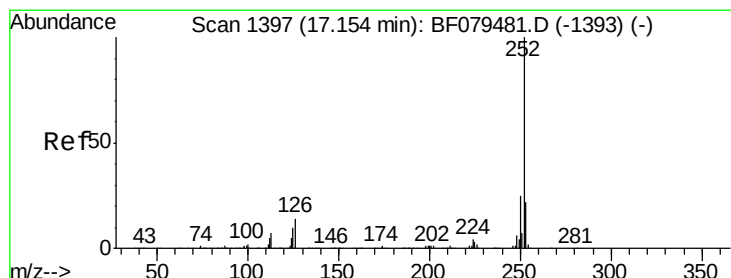
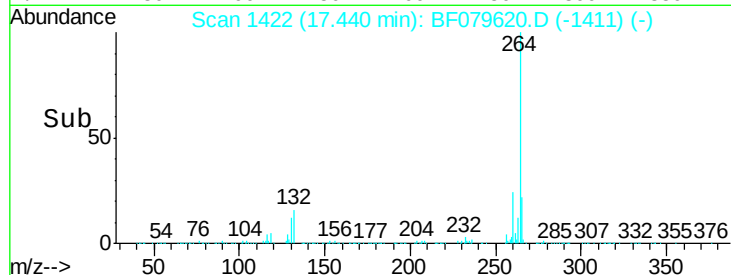
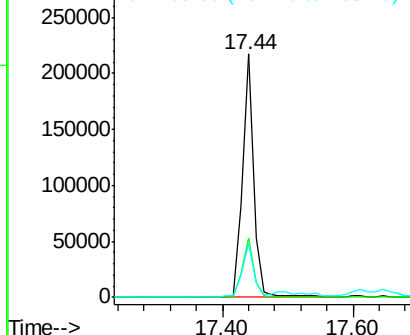
Tgt Ion:	264	Resp:	255847
Ion Ratio		Lower	Upper
264	100		
260	24.6	19.8	29.8
265	22.4	17.8	26.6

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 30.31 ng m

RT: 17.03 min Scan# 1386

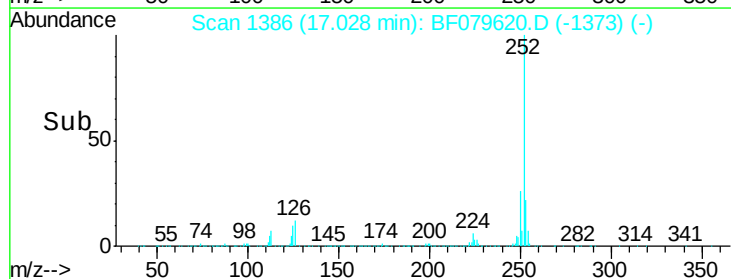
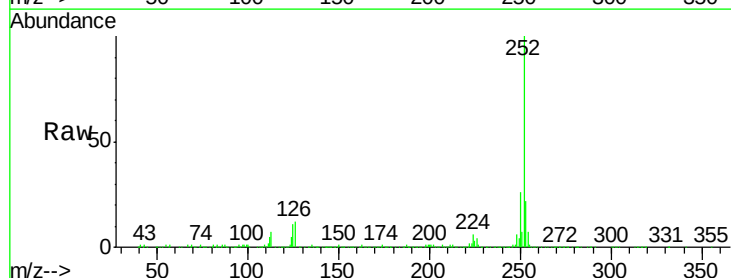
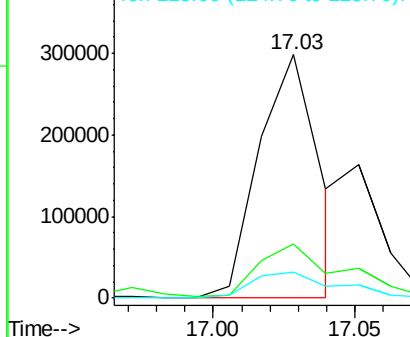
Delta R.T. -0.05 min

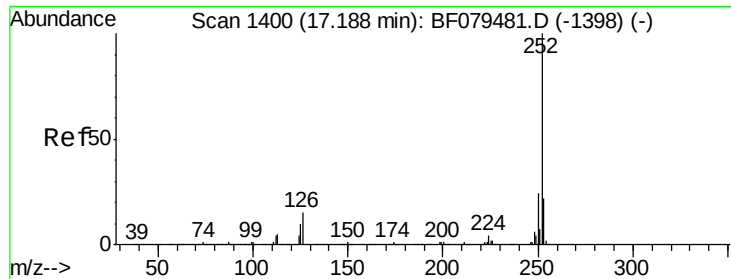
Lab File: BF079620.D

Acq: 30 May 2015 23:33

Tgt Ion:	252	Resp:	442321
Ion Ratio		Lower	Upper
252	100		
253	22.5	17.6	26.4
125	10.8	7.8	11.6

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





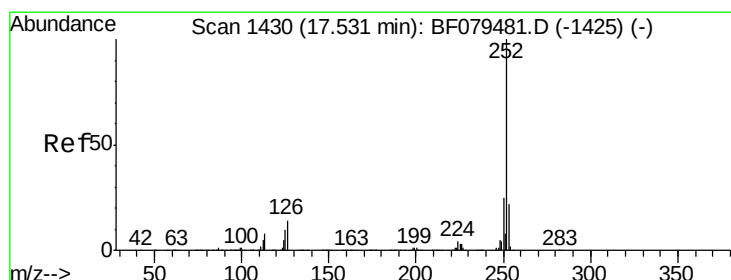
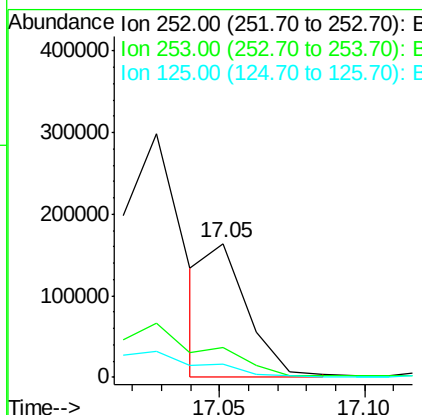
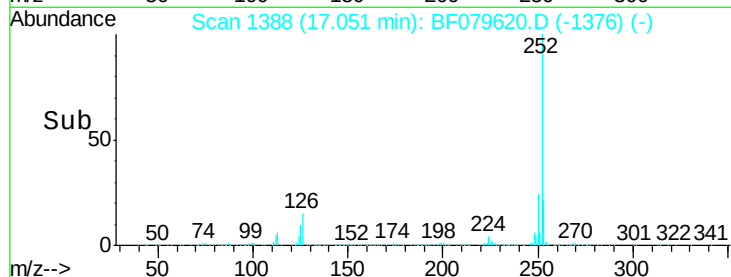
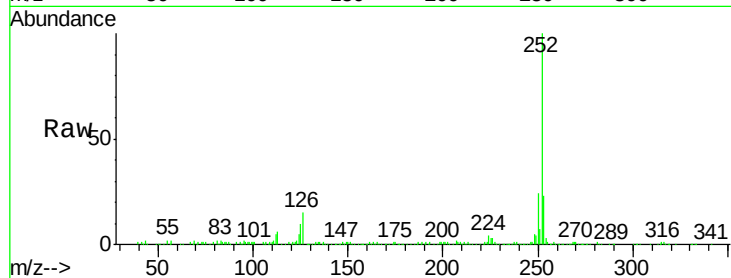
#88
 Benzo(k)fluoranthene
 Concen: 11.98 ng m
 RT: 17.05 min Scan# 1388
 Delta R.T. -0.06 min
 Lab File: BF079620.D
 Acq: 30 May 2015 23:33

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.6(5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.2	25.8
125	10.3	6.8	10.2

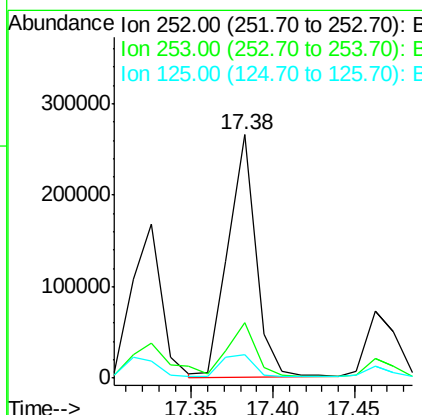
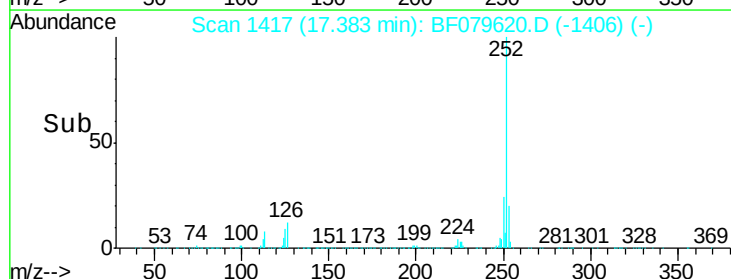
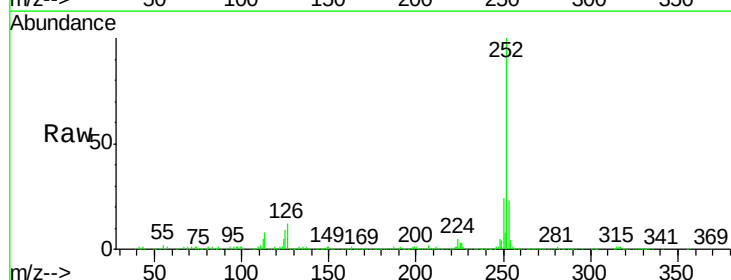
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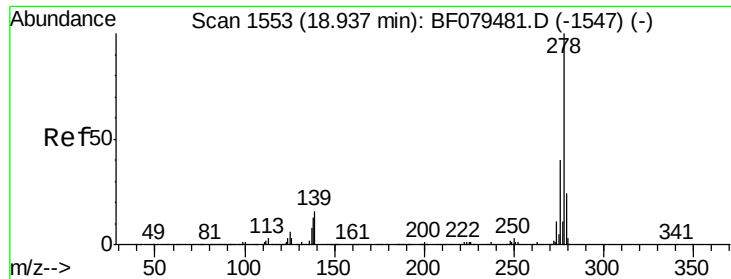
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#89
 Benzo(a)pyrene
 Concen: 23.42 ng
 RT: 17.38 min Scan# 1417
 Delta R.T. -0.07 min
 Lab File: BF079620.D
 Acq: 30 May 2015 23:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	9.4	7.9	11.9





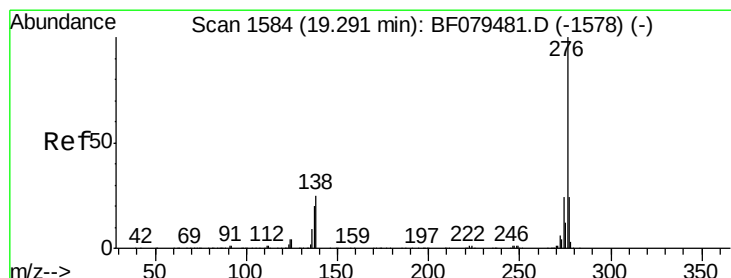
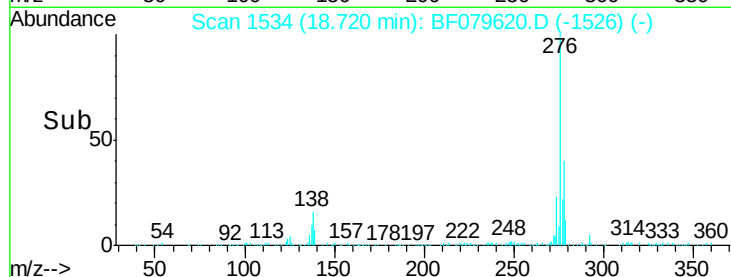
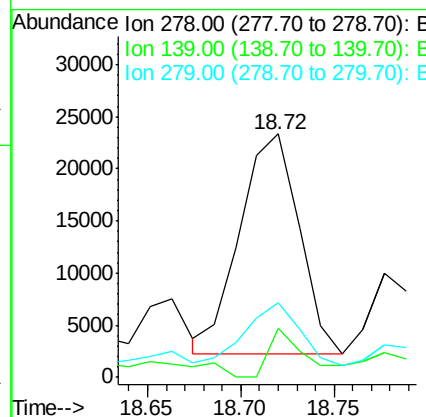
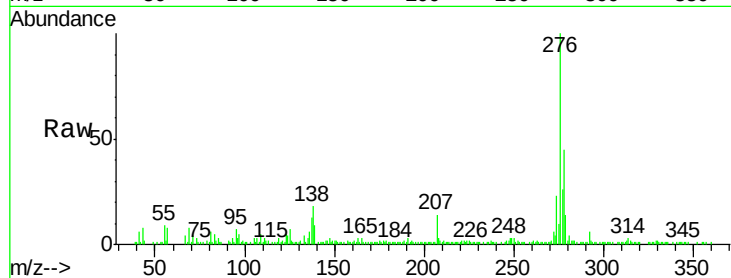
#90
Dibenzo(a,h)anthracene
Concen: 2.04 ng
RT: 18.72 min Scan# 1534
Delta R.T. -0.11 min
Lab File: BF079620.D
Acq: 30 May 2015 23:33

Instrument :
BNA_F
ClientSampleId :
PENRD8.6(5)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.0	12.8	19.2#
279	30.7	19.1	28.7#

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#91
Benzo(g,h,i)perylene
Concen: 15.82 ng
RT: 19.07 min Scan# 1565
Delta R.T. -0.11 min
Lab File: BF079620.D
Acq: 30 May 2015 23:33

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.1	28.7
138	21.6	20.1	30.1

