

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
 Data File : BF079612.D
 Acq On : 30 May 2015 19:41
 Operator : TP/IZ
 Sample : G2420-26 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.13(5)

Quant Time: May 31 05:49:11 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	65357	20.00	ng	-0.02
21) Naphthalene-d8	8.51	136	260279	20.00	ng	-0.02
38) Acenaphthene-d10	10.67	164	124935	20.00	ng	-0.03
63) Phenanthrene-d10	12.50	188	237861	20.00	ng	-0.03
75) Chrysene-d12	15.78	240	256686	20.00	ng	-0.06
86) Perylene-d12	17.45	264	247743	20.00	ng	-0.22

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.23	112	79503	21.10	ng	0.00
7) Phenol-d6	6.55	99	107506	22.38	ng	-0.01
23) Nitrobenzene-d5	7.63	82	59334	13.18	ng	-0.03
41) 2,4,6-Tribromophenol	11.66	330	29135	21.23	ng	-0.03
44) 2-Fluorobiphenyl	9.86	172	128784	14.71	ng	-0.02
78) Terphenyl-d14	14.50	244	153014	13.99	ng	-0.03

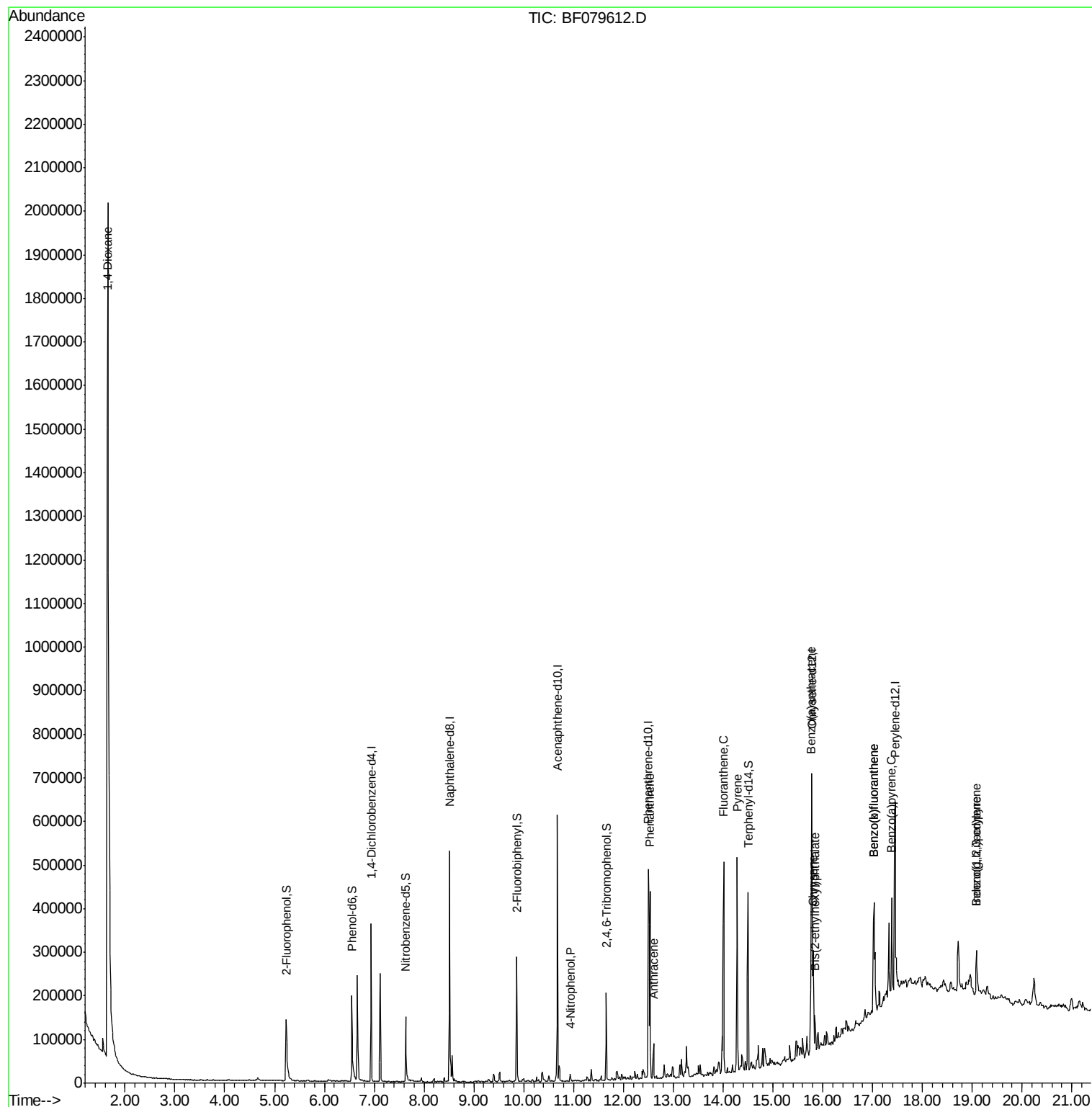
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.66	88	110907	61.87	ng	# 100
55) 4-Nitrophenol	10.94	139	3806	2.87	ng	# 12
70) Phenanthrene	12.54	178	171278	13.13	ng	100
71) Anthracene	12.61	178	41040	3.10	ng	99
73) Di-n-butylphthalate	13.27	149	1566	Below Cal	#	45
74) Fluoranthene	14.01	202	268914	19.22	ng	99
77) Pyrene	14.29	202	230810	14.51	ng	99
80) Benzo(a)anthracene	15.77	228	142444	9.65	ng	99
82) Chrysene	15.81	228	102776	7.32	ng	98
83) Bis(2-ethylhexyl)phthalate	15.84	149	24524	2.39	ng	# 99
85) Indeno(1,2,3-cd)pyrene	19.09	276	66075	3.66	ng	94
87) Benzo(b)fluoranthene	17.03	252	218299	15.45	ng	99
88) Benzo(k)fluoranthene	17.03	252	218299	17.28	ng	# 97
89) Benzo(a)pyrene	17.38	252	110795	7.33	ng	# 93
90) Dibenzo(a,h)anthracene	18.80	278	5005	Below Cal	#	65
91) Benzo(g,h,i)perylene	19.09	276	79458	3.43	ng	96

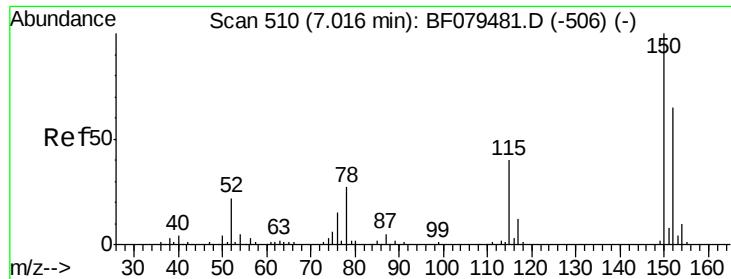
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079612.D
Acq On : 30 May 2015 19:41
Operator : TP/IZ
Sample : G2420-26 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PENRD8.13(5)

Quant Time: May 31 05:49:11 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.94 min Scan# 503

Delta R.T. -0.02 min

Lab File: BF079612.D

Acq: 30 May 2015 19:41

Instrument :

BNA_F

ClientSampleId :

PENRD8.13(5)

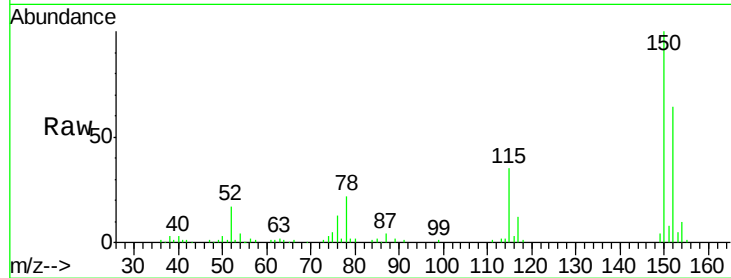
Tgt Ion:152 Resp: 65357

Ion Ratio Lower Upper

152 100

150 156.8 124.0 186.0

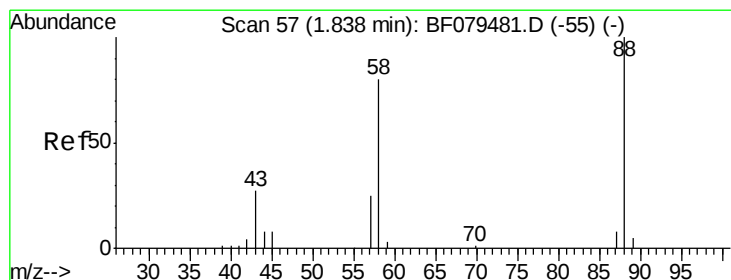
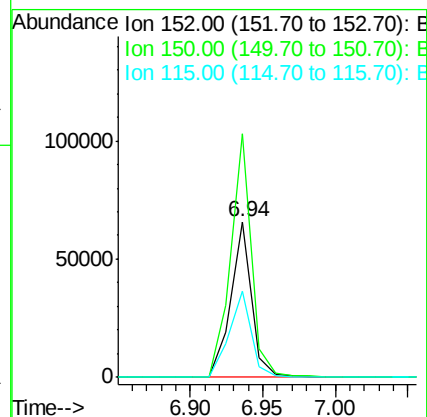
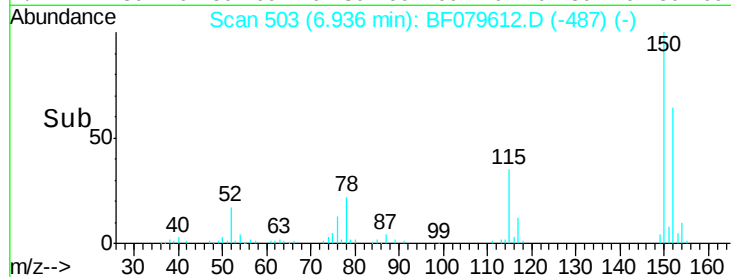
115 55.5 49.6 74.4



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



#2

1,4-Dioxane

Concen: 61.87 ng

RT: 1.66 min Scan# 41

Delta R.T. -0.11 min

Lab File: BF079612.D

Acq: 30 May 2015 19:41

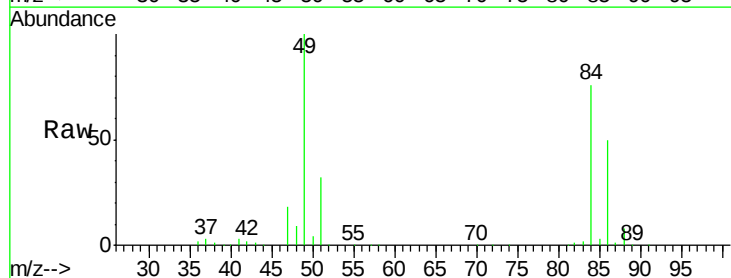
Tgt Ion: 88 Resp: 110907

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

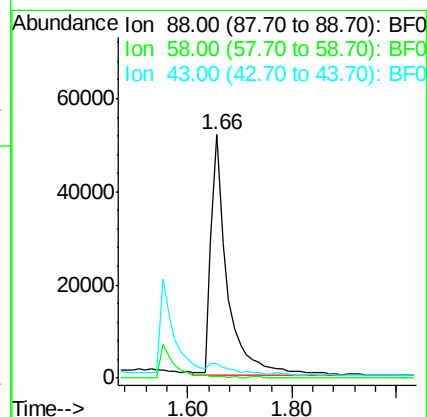
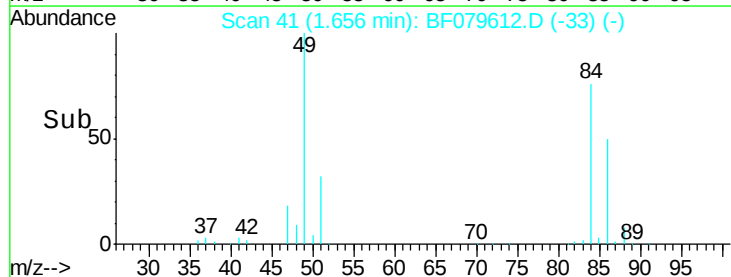
43 6.0 0.0 0.0#

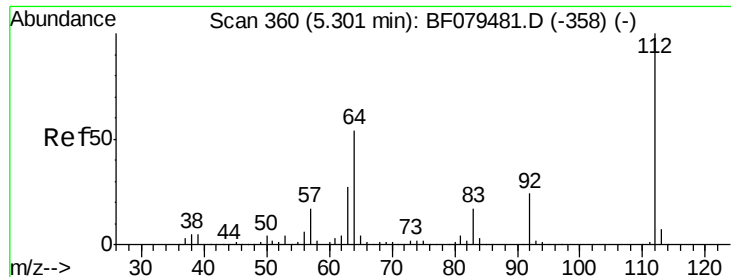


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 21.10 ng

RT: 5.23 min Scan# 354

Delta R.T. 0.00 min

Lab File: BF079612.D

Acq: 30 May 2015 19:41

Instrument :

BNA_F

ClientSampleId :

PENRD8.13(5)

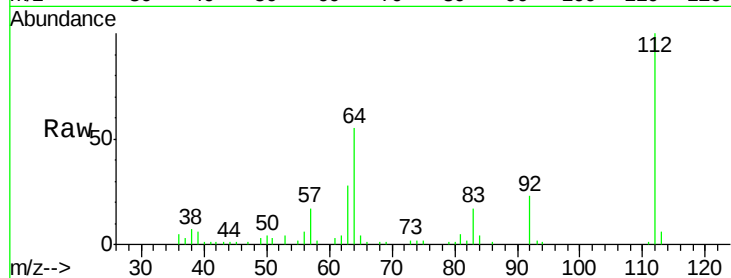
Tgt Ion: 112 Resp: 79503

Ion Ratio Lower Upper

112 100

64 55.2 43.5 65.3

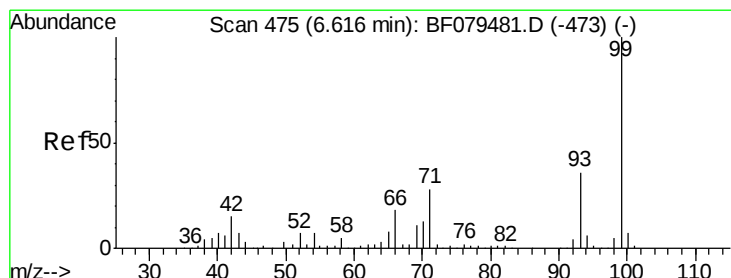
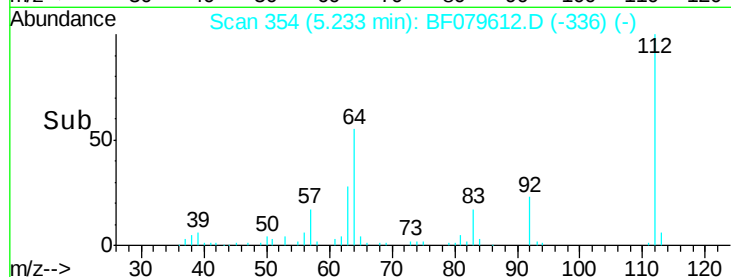
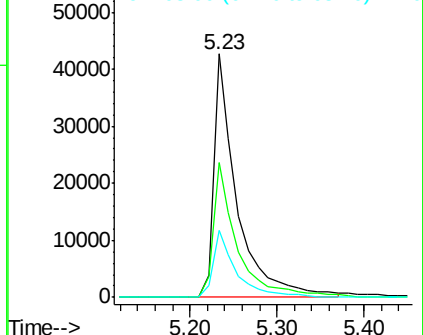
63 27.7 21.8 32.8



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: 22.38 ng

RT: 6.55 min Scan# 469

Delta R.T. -0.01 min

Lab File: BF079612.D

Acq: 30 May 2015 19:41

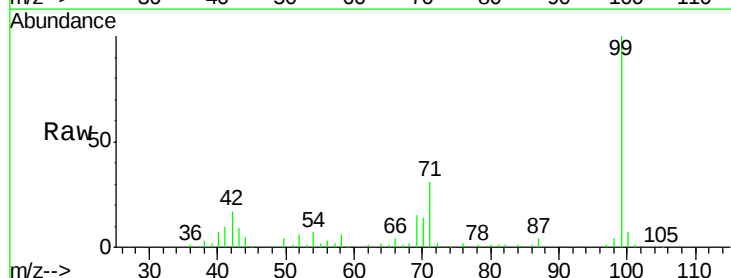
Tgt Ion: 99 Resp: 107506

Ion Ratio Lower Upper

99 100

42 16.5 11.9 17.9

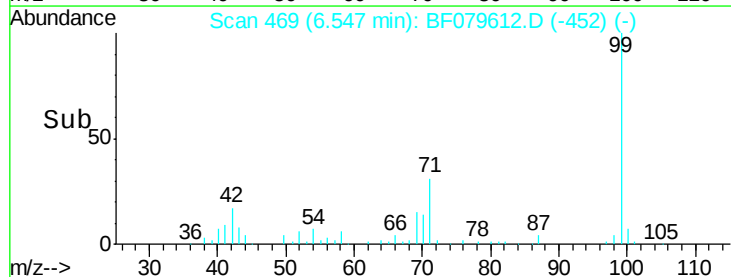
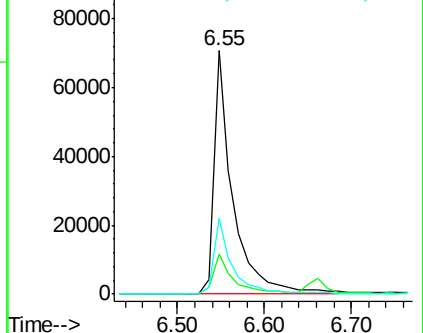
71 31.1 22.1 33.1

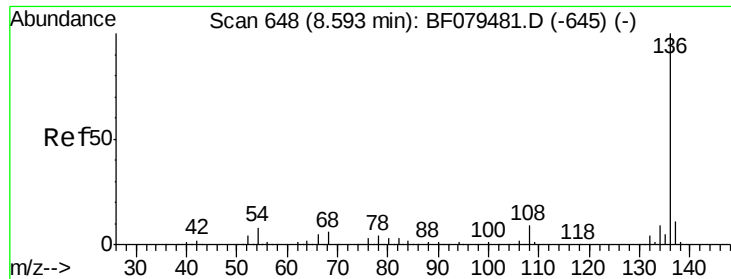


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

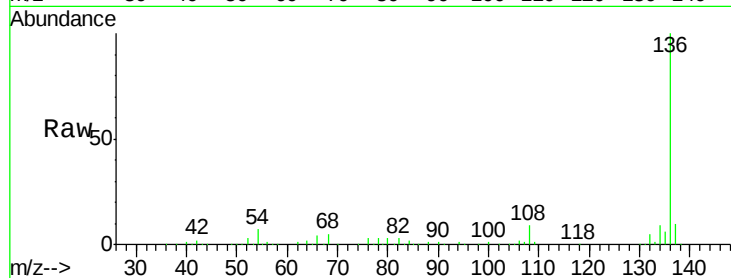




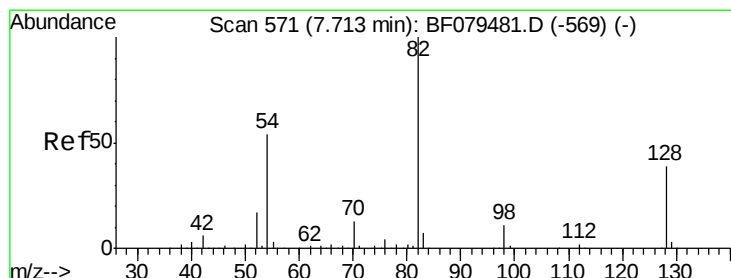
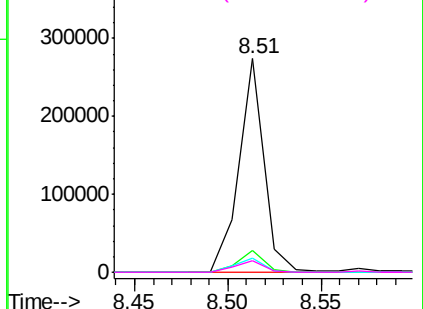
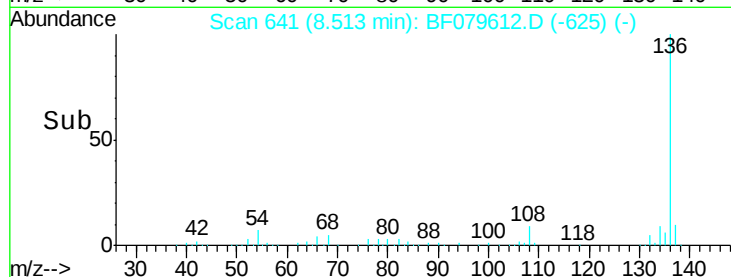
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.51 min Scan# 641
Delta R.T. -0.02 min
Lab File: BF079612.D
Acq: 30 May 2015 19:41

Instrument :
BNA_F
ClientSampleId :
PENRD8.13(5)

Tgt Ion:	136	Resp:	260279
Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.5	12.7
54	6.7	6.6	9.8
68	5.2	4.7	7.1

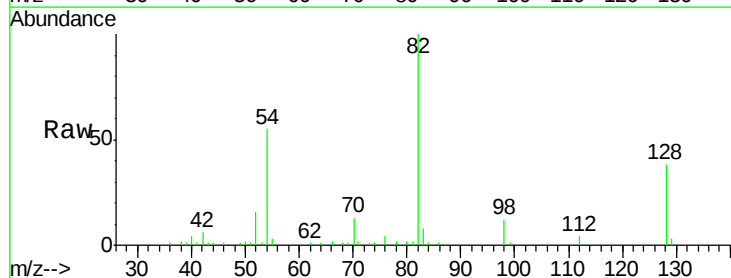


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

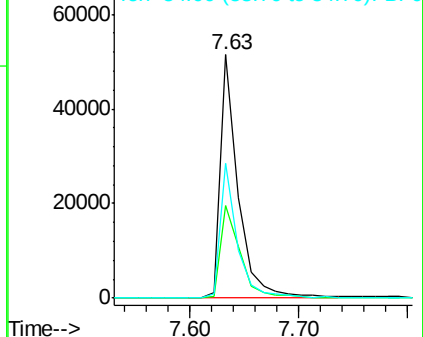
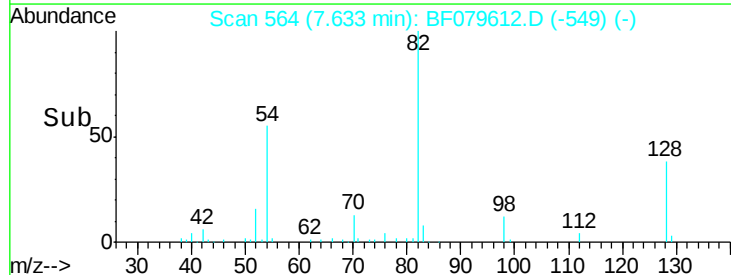


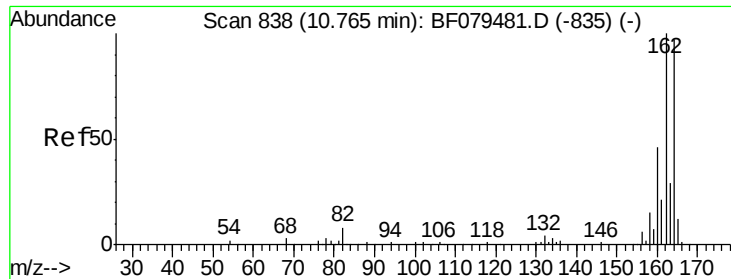
#23
Nitrobenzene-d5
Concen: 13.18 ng
RT: 7.63 min Scan# 564
Delta R.T. -0.03 min
Lab File: BF079612.D
Acq: 30 May 2015 19:41

Tgt Ion:	82	Resp:	59334
Ion	Ratio	Lower	Upper
82	100		
128	37.8	30.8	46.2
54	55.3	42.8	64.2



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): BF0

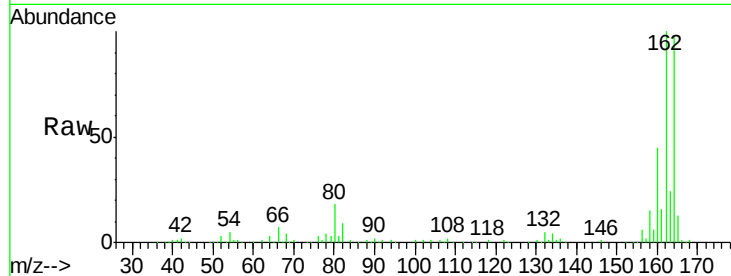




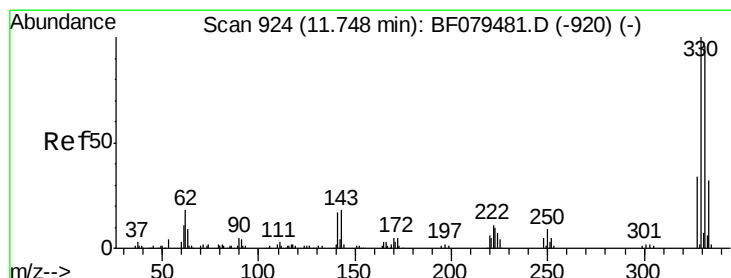
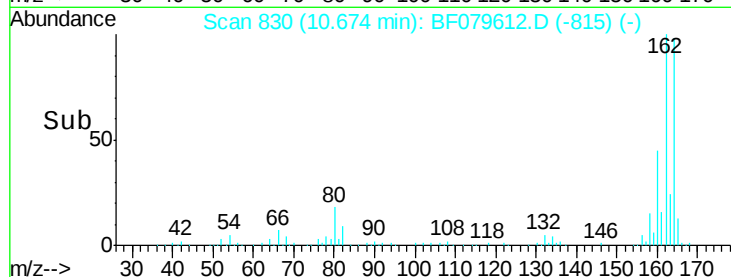
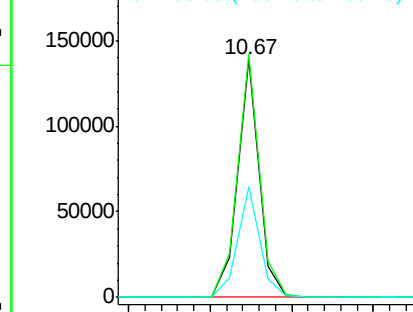
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.67 min Scan# 830
Delta R.T. -0.03 min
Lab File: BF079612.D
Acq: 30 May 2015 19:41

Instrument :
BNA_F
ClientSampleId :
PENRD8.13(5)

Tgt Ion:164 Resp: 124935
Ion Ratio Lower Upper
164 100
162 102.2 82.6 124.0
160 46.5 37.7 56.5

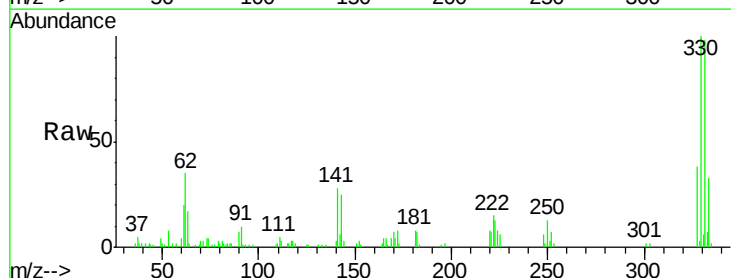


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

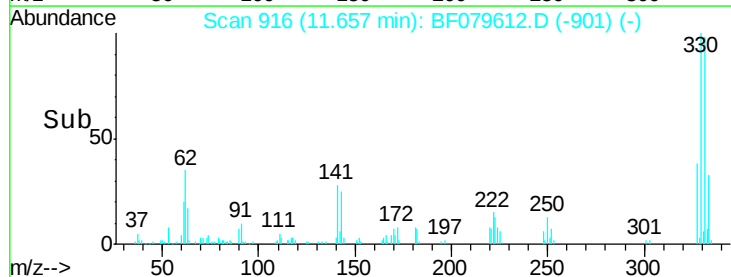
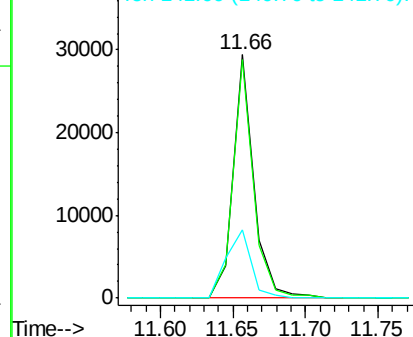


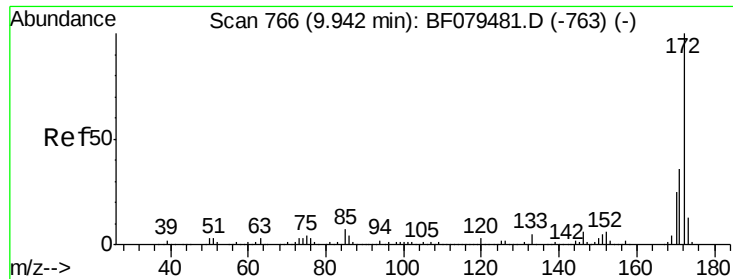
#41
2,4,6-Tribromophenol
Concen: 21.23 ng
RT: 11.66 min Scan# 916
Delta R.T. -0.03 min
Lab File: BF079612.D
Acq: 30 May 2015 19:41

Tgt Ion:330 Resp: 29135
Ion Ratio Lower Upper
330 100
332 96.9 0.0 0.0#
141 33.9 0.0 0.0#



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

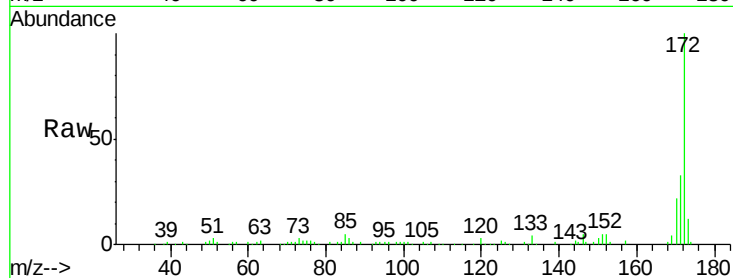




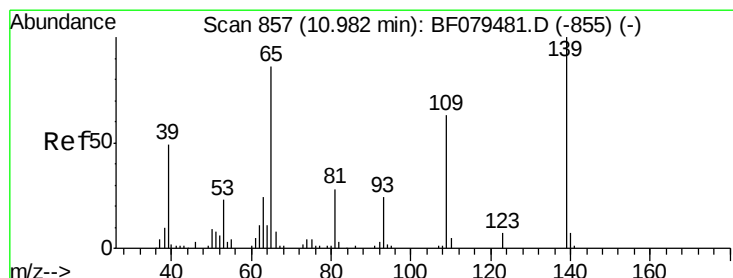
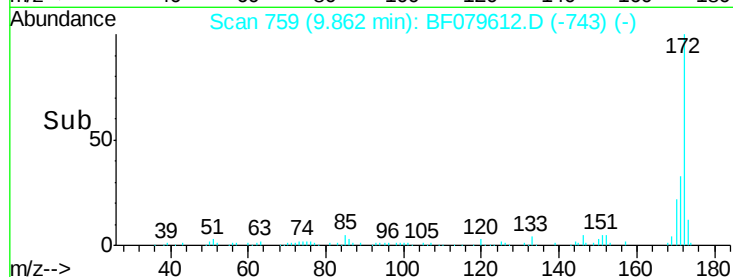
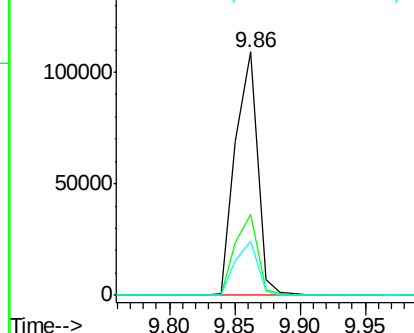
#44
 2-Fluorobiphenyl
 Concen: 14.71 ng
 RT: 9.86 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.13(5)

Tgt Ion:172 Resp: 128784
 Ion Ratio Lower Upper
 172 100
 171 33.4 28.5 42.7
 170 22.1 19.7 29.5

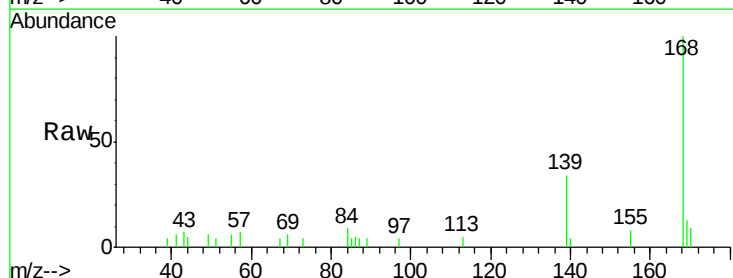


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

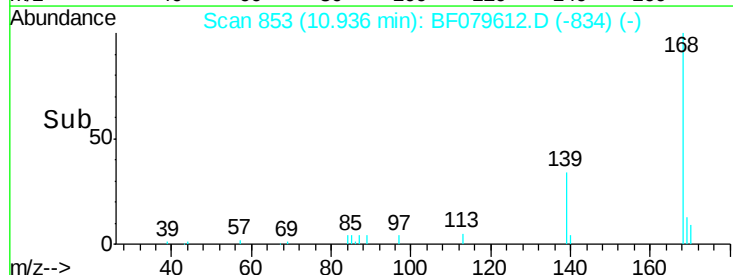
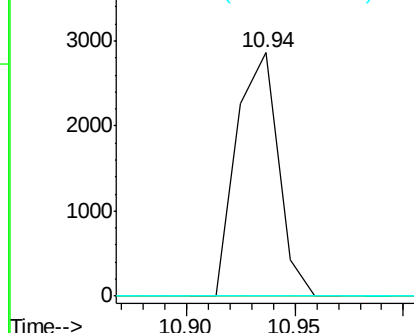


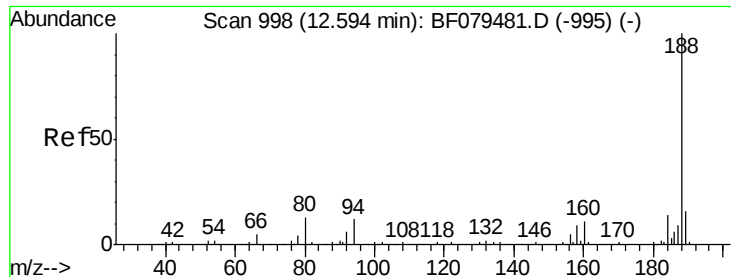
#55
 4-Nitrophenol
 Concen: 2.87 ng
 RT: 10.94 min Scan# 853
 Delta R.T. 0.01 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

Tgt Ion:139 Resp: 3806
 Ion Ratio Lower Upper
 139 100
 109 0.0 42.8 82.8#
 65 0.0 66.3 106.3#



Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF0

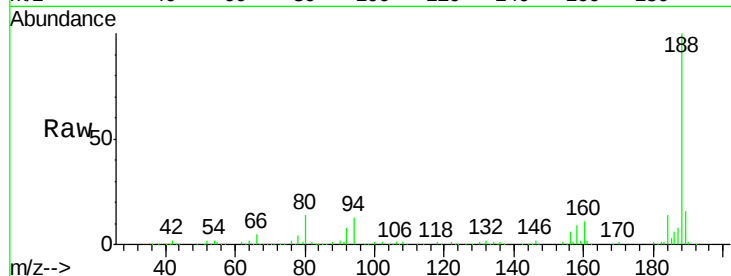




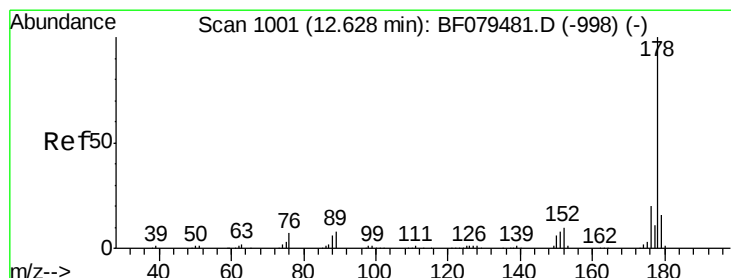
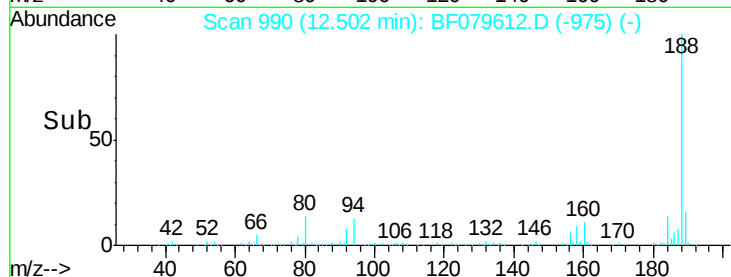
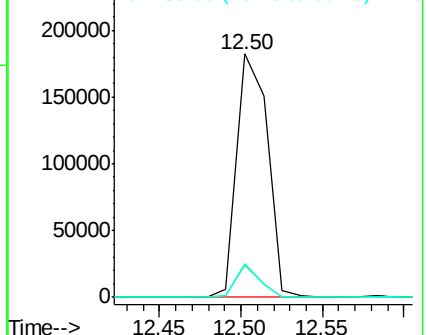
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.50 min Scan# 990
Delta R.T. -0.03 min
Lab File: BF079612.D
Acq: 30 May 2015 19:41

Instrument :
BNA_F
ClientSampleId :
PENRD8.13(5)

Tgt Ion:188 Resp: 237861
Ion Ratio Lower Upper
188 100
94 13.1 9.8 14.6
80 13.7 10.5 15.7

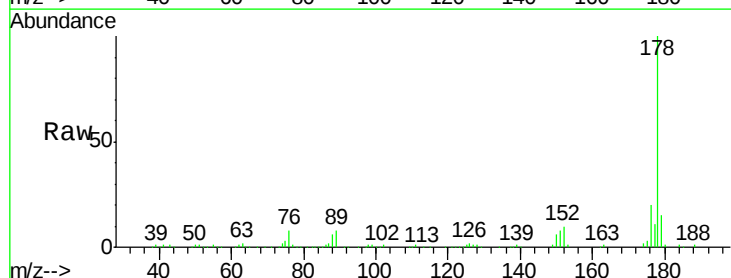


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

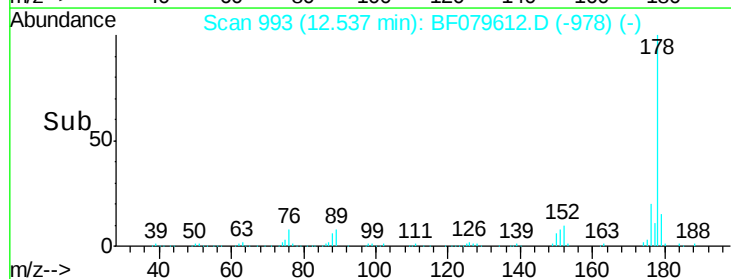
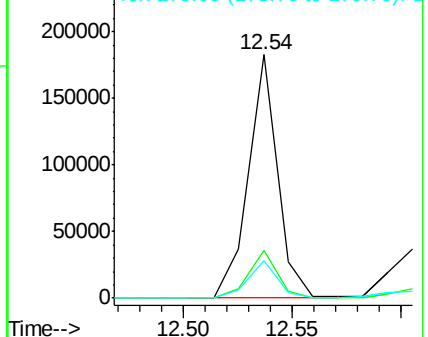


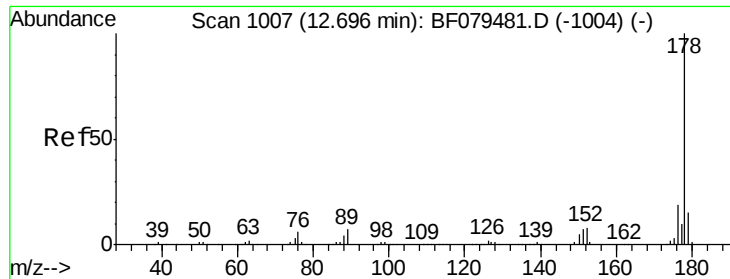
#70
Phenanthrene
Concen: 13.13 ng
RT: 12.54 min Scan# 993
Delta R.T. -0.03 min
Lab File: BF079612.D
Acq: 30 May 2015 19:41

Tgt Ion:178 Resp: 171278
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.3 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

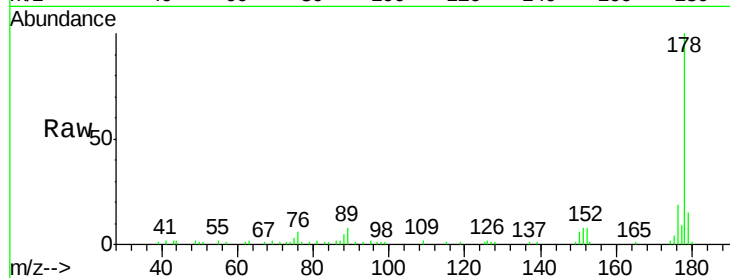




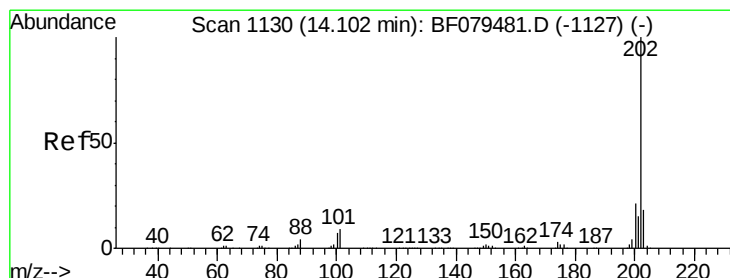
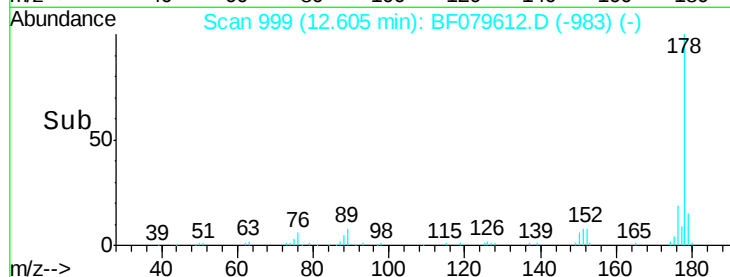
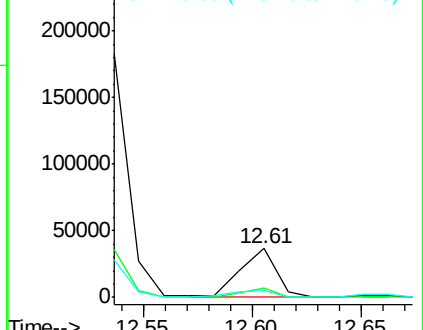
#71
 Anthracene
 Concen: 3.10 ng
 RT: 12.61 min Scan# 999
 Delta R.T. -0.02 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.13(5)

Tgt Ion:178 Resp: 41040
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.3 22.9
 179 15.0 12.2 18.4

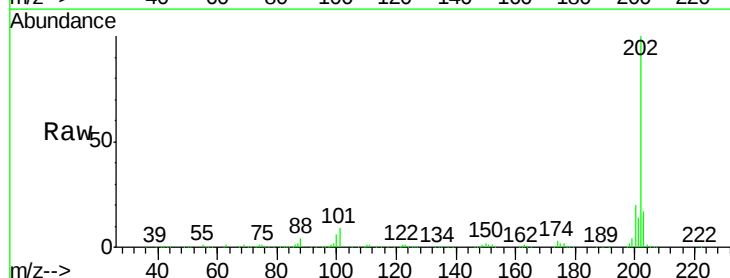


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

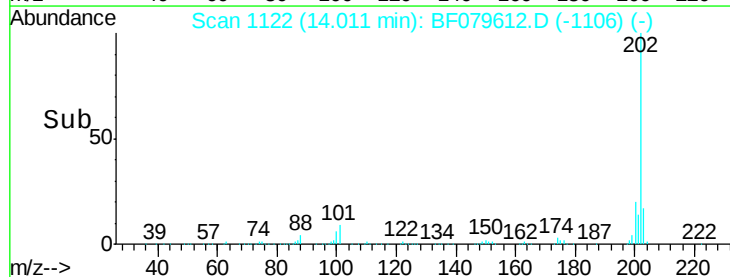
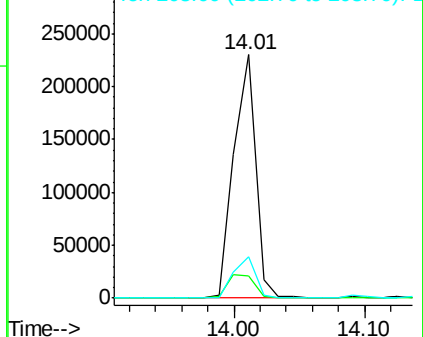


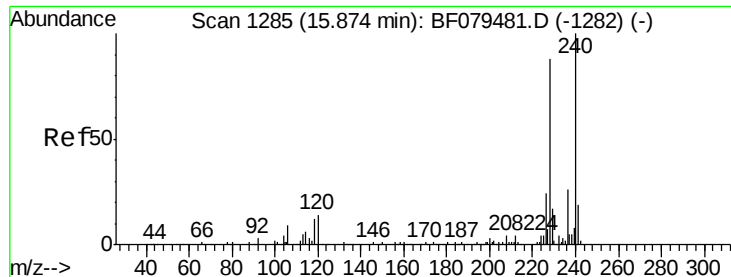
#74
 Fluoranthene
 Concen: 19.22 ng
 RT: 14.01 min Scan# 1122
 Delta R.T. -0.02 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

Tgt Ion:202 Resp: 268914
 Ion Ratio Lower Upper
 202 100
 101 9.2 0.0 29.3
 203 17.1 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

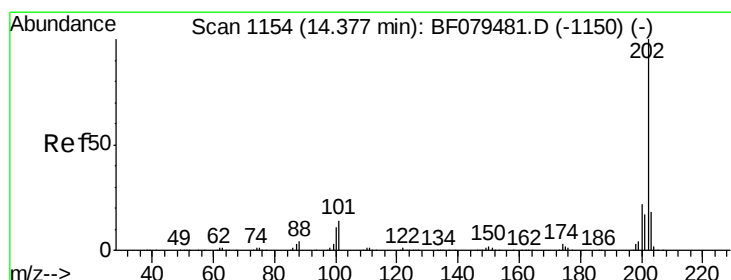
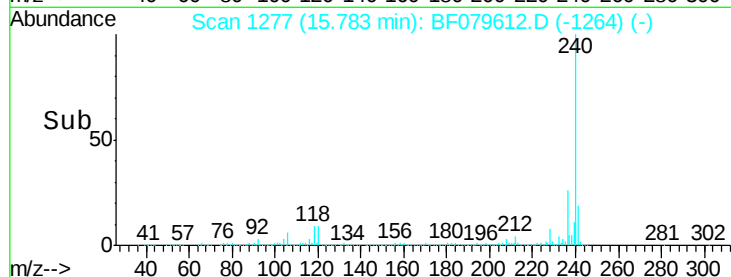
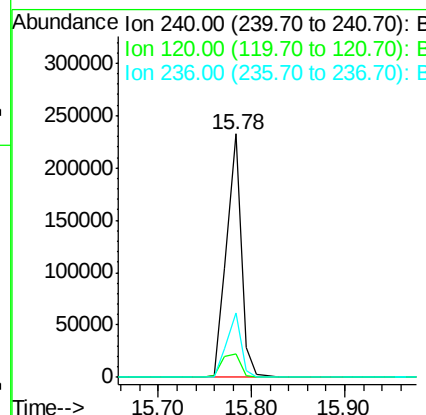
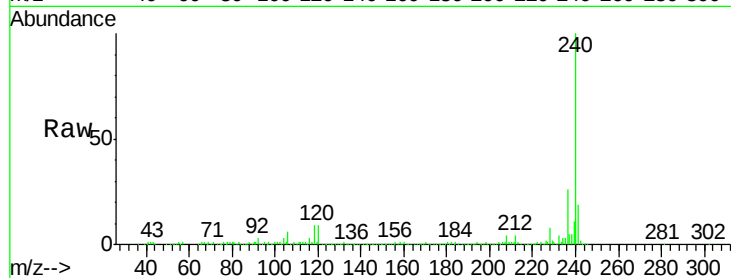




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 15.78 min Scan# 1277
 Delta R.T. -0.06 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

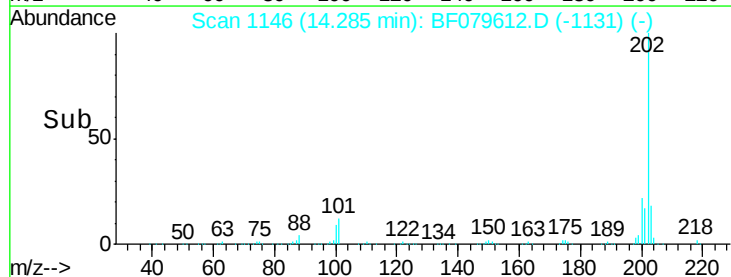
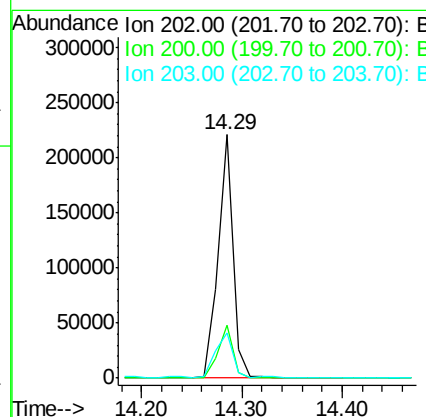
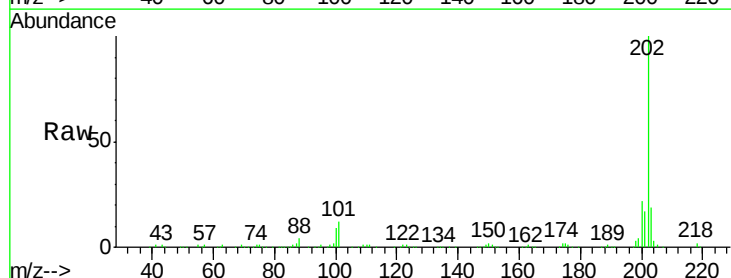
Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.13(5)

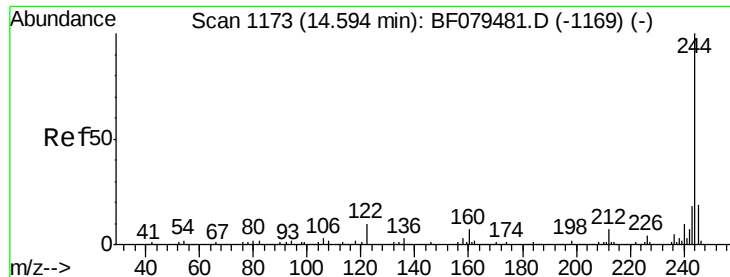
Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.5	10.8	16.2#
236	26.5	21.0	31.6



#77
 Pyrene
 Concen: 14.51 ng
 RT: 14.29 min Scan# 1146
 Delta R.T. -0.03 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.5	26.3
203	18.5	14.4	21.6

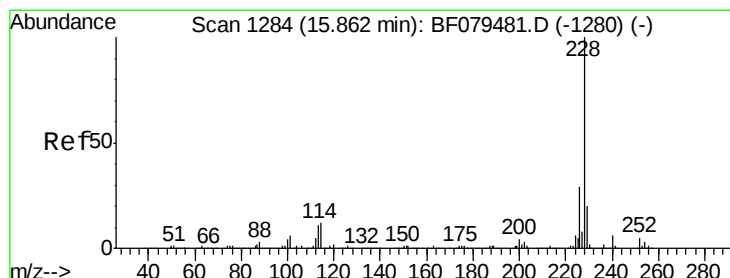
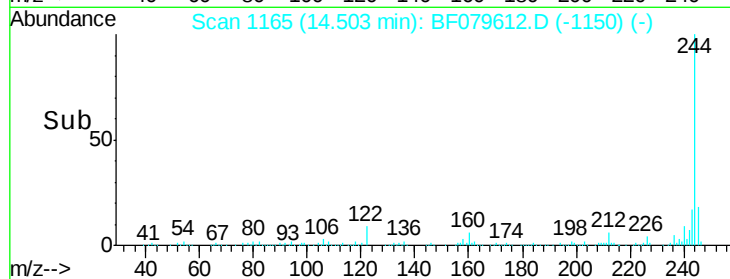
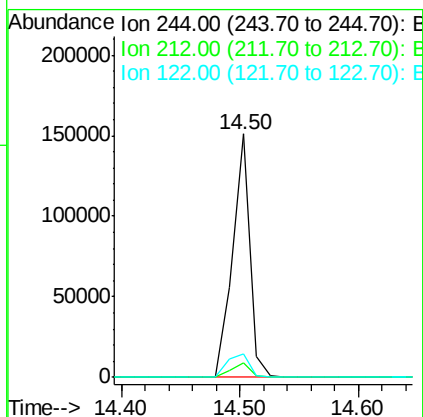
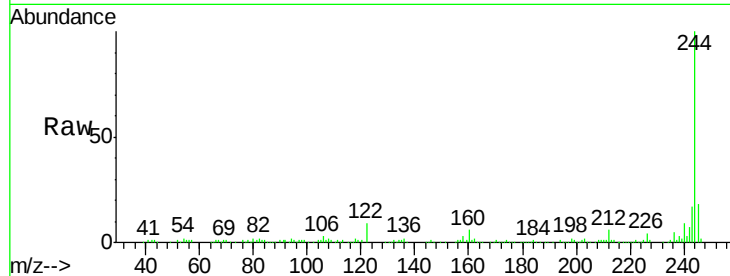




#78
 Terphenyl-d14
 Concen: 13.99 ng
 RT: 14.50 min Scan# 1165
 Delta R.T. -0.03 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

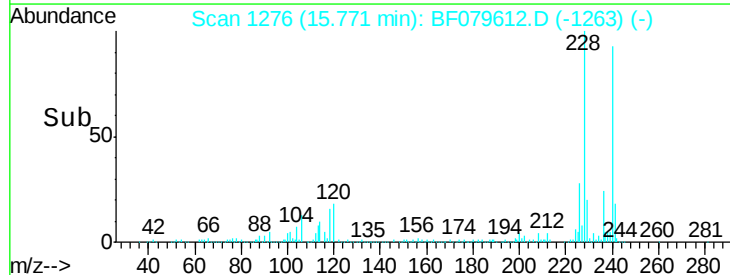
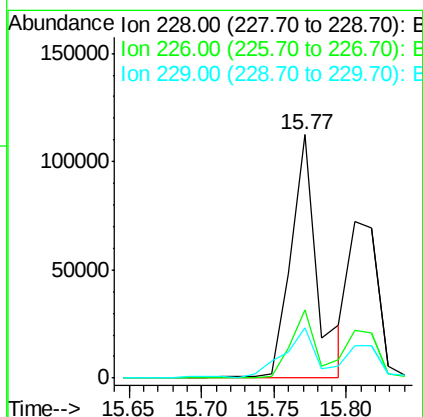
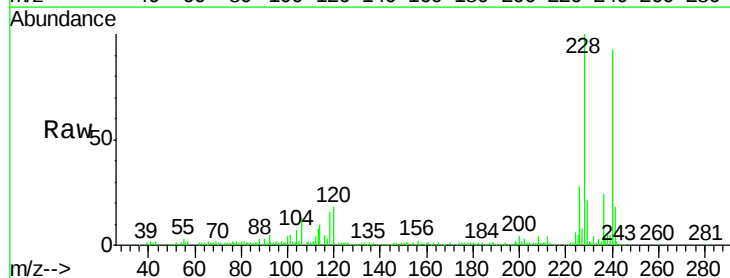
Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.13(5)

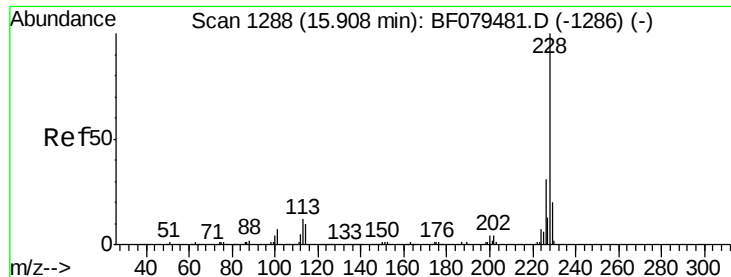
Tgt Ion:244 Resp: 153014
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.2 7.8
 122 9.4 8.0 12.0



#80
 Benzo(a)anthracene
 Concen: 9.65 ng
 RT: 15.77 min Scan# 1276
 Delta R.T. -0.06 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

Tgt Ion:228 Resp: 142444
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.8 34.2
 229 20.7 15.9 23.9





#82

Chrysene

Concen: 7.32 ng

RT: 15.81 min Scan# 1279

Delta R.T. -0.07 min

Lab File: BF079612.D

Acq: 30 May 2015 19:41

Instrument :

BNA_F

ClientSampleId :

PENRD8.13(5)

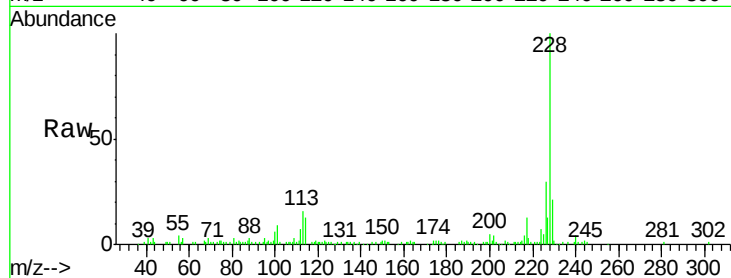
Tgt Ion:228 Resp: 102776

Ion Ratio Lower Upper

228 100

226 30.2 25.0 37.4

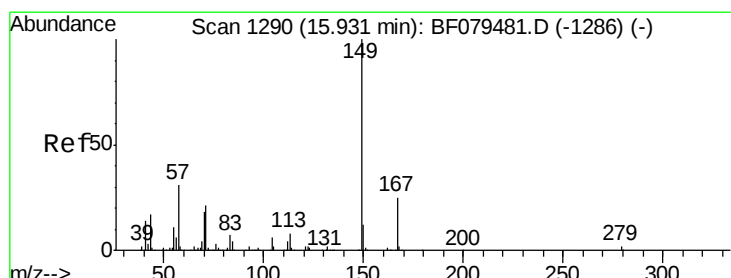
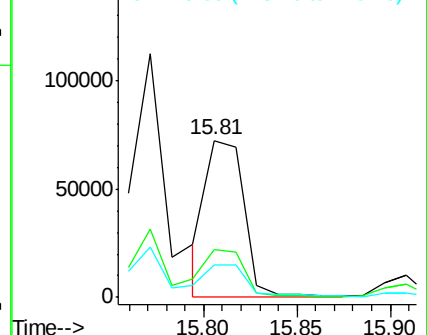
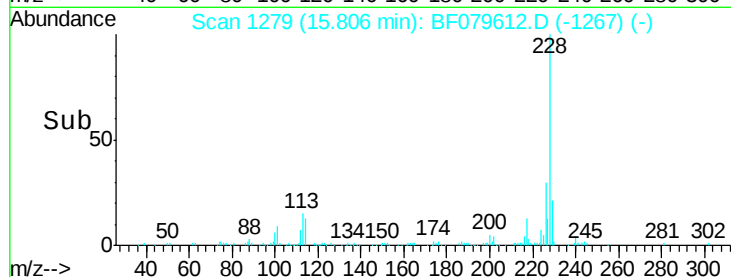
229 20.9 15.9 23.9



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.39 ng

RT: 15.84 min Scan# 1282

Delta R.T. -0.07 min

Lab File: BF079612.D

Acq: 30 May 2015 19:41

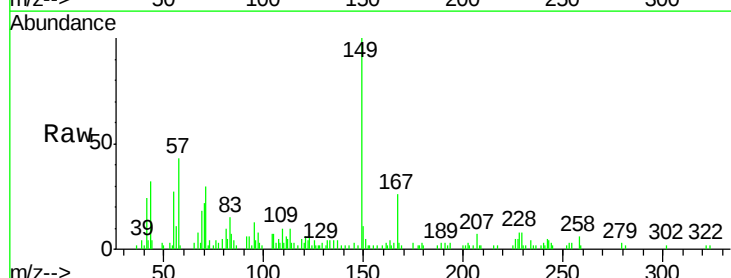
Tgt Ion:149 Resp: 24524

Ion Ratio Lower Upper

149 100

167 25.7 20.2 30.4

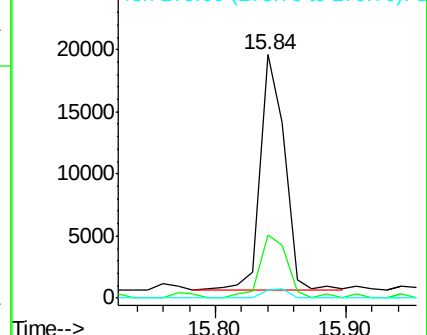
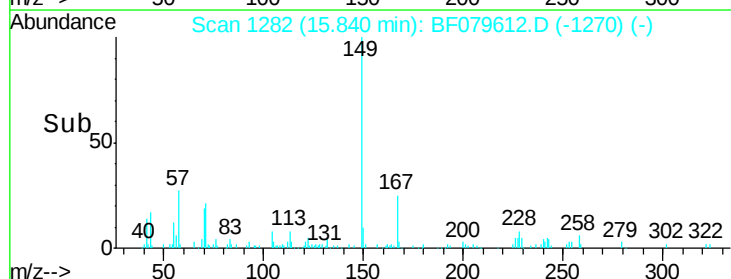
279 3.1 2.0 3.0#

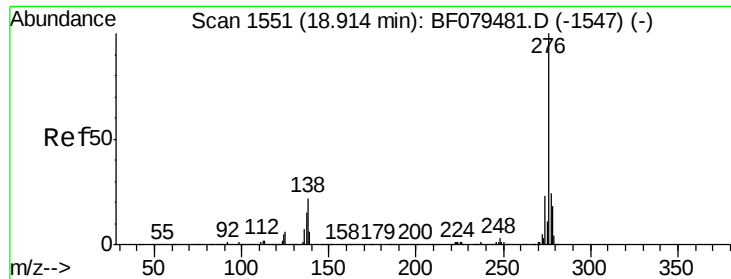


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

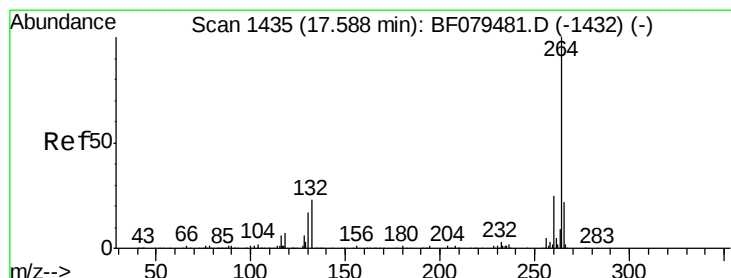
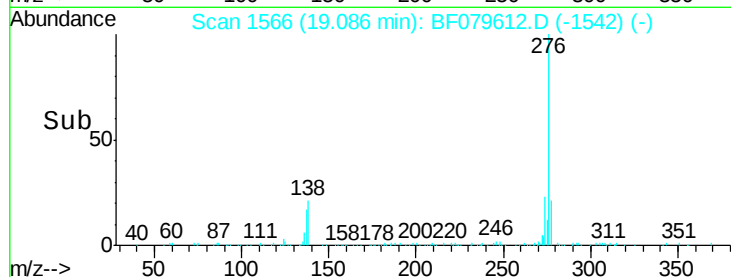
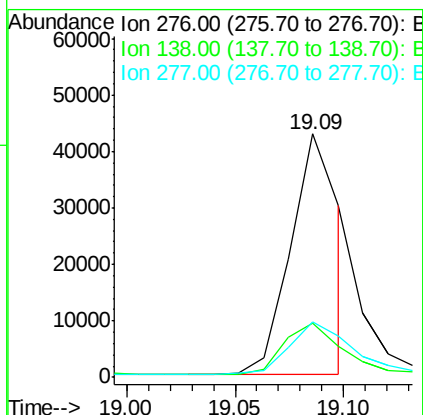
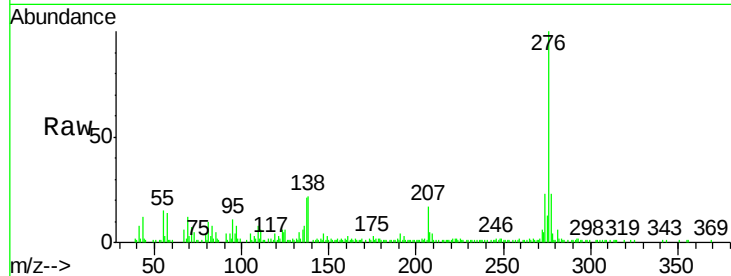




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.66 ng
 RT: 19.09 min Scan# 1566
 Delta R.T. 0.07 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

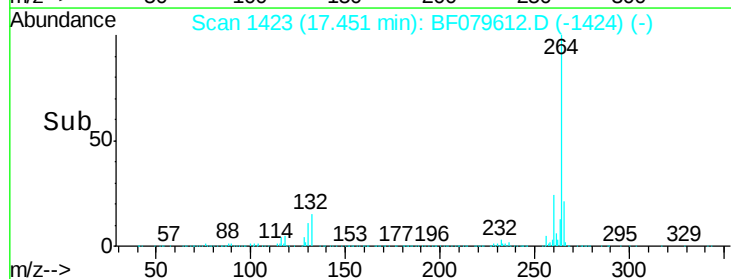
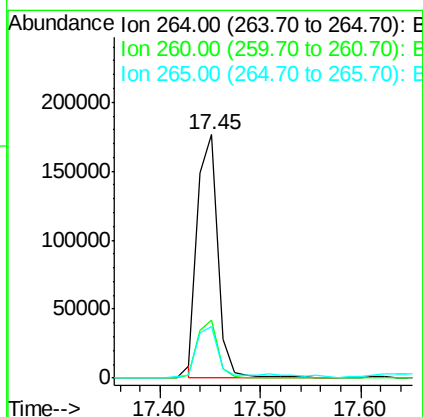
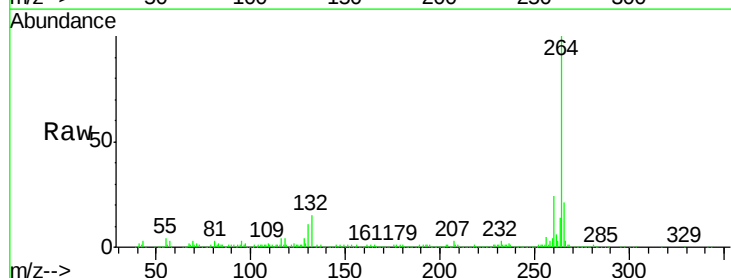
Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.13(5)

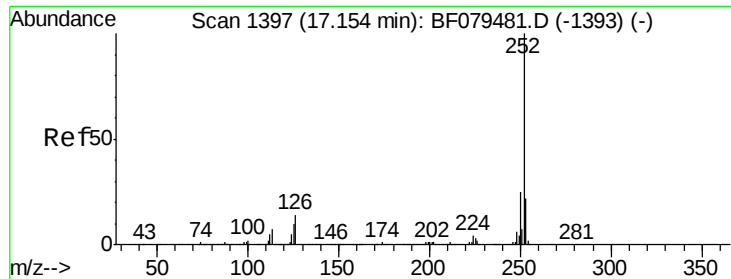
Tgt Ion:	276	Resp:	66075
Ion	Ratio	Lower	Upper
276	100		
138	22.5	21.4	32.2
277	23.2	19.8	29.6



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.45 min Scan# 1423
 Delta R.T. -0.22 min
 Lab File: BF079612.D
 Acq: 30 May 2015 19:41

Tgt Ion:	264	Resp:	247743
Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.8	29.8
265	21.3	17.8	26.6

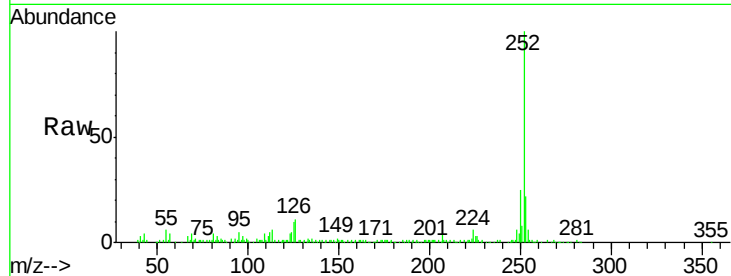




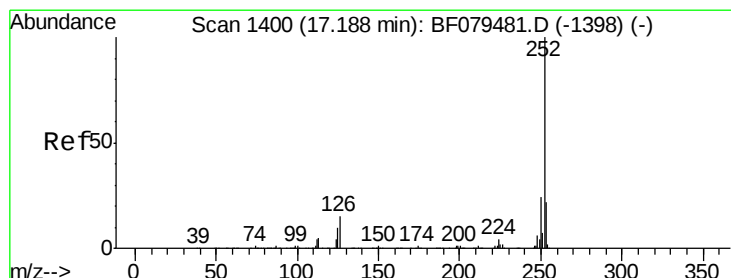
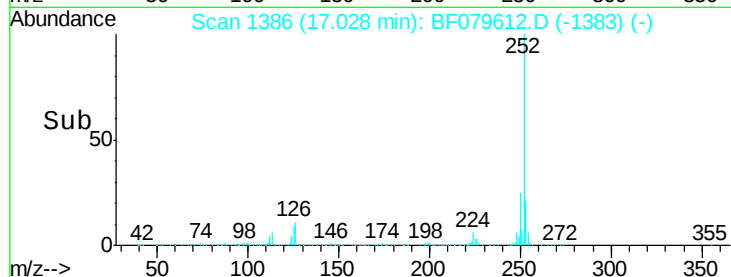
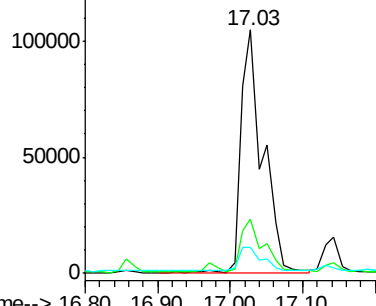
#87
Benzo(b)fluoranthene
Concen: 15.45 ng
RT: 17.03 min Scan# 1386
Delta R.T. -0.17 min
Lab File: BF079612.D
Acq: 30 May 2015 19:41

Instrument :
BNA_F
ClientSampleId :
PENRD8.13(5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	10.5	7.8	11.6

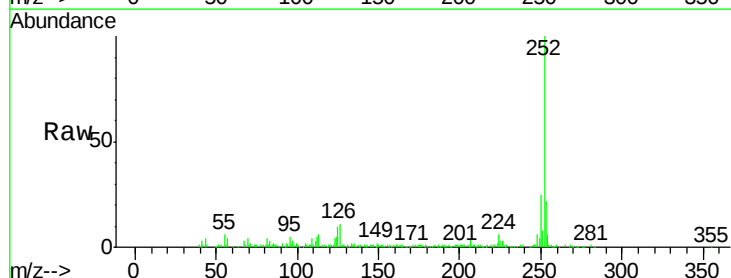


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

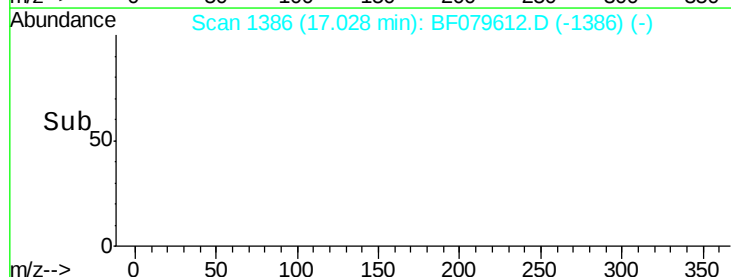
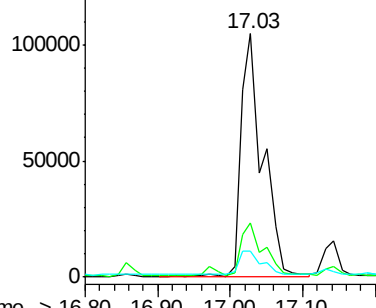


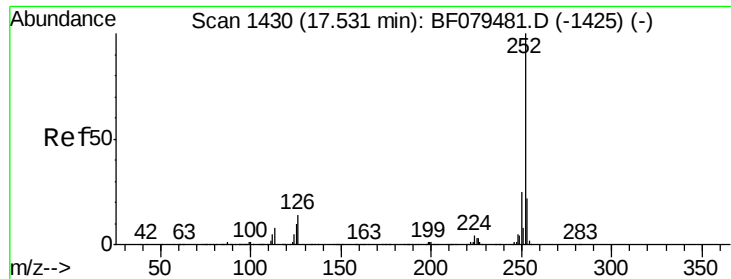
#88
Benzo(k)fluoranthene
Concen: 17.28 ng
RT: 17.03 min Scan# 1386
Delta R.T. -0.21 min
Lab File: BF079612.D
Acq: 30 May 2015 19:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.2	25.8
125	10.5	6.8	10.2#



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





#89

Benzo(a)pyrene

Concen: 7.33 ng

RT: 17.38 min Scan# 1417

Delta R.T. -0.23 min

Lab File: BF079612.D

Acq: 30 May 2015 19:41

Instrument :

BNA_F

ClientSampleId :

PENRD8.13(5)

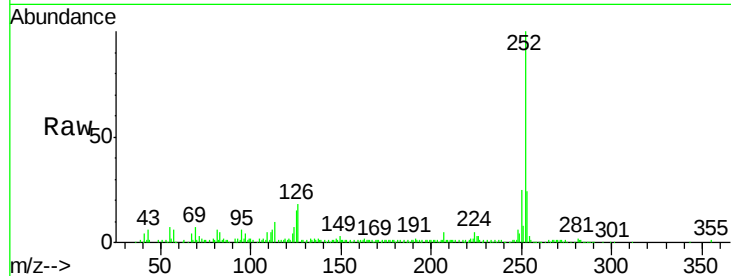
Tgt Ion:252 Resp: 110795

Ion Ratio Lower Upper

252 100

253 24.5 17.8 26.8

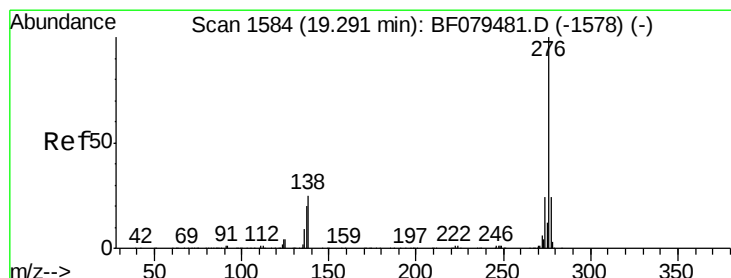
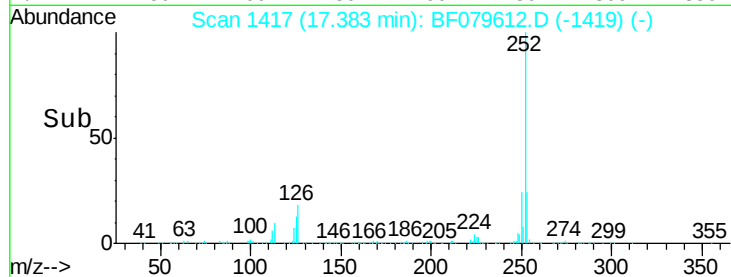
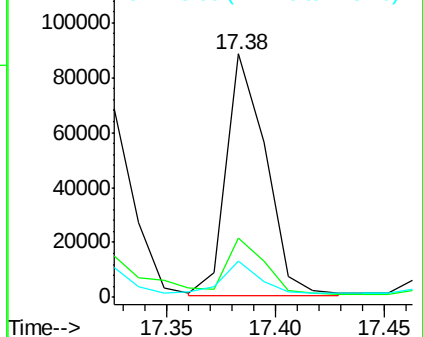
125 14.6 7.9 11.9#



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



#91

Benzo(g,h,i)perylene

Concen: 3.43 ng

RT: 19.09 min Scan# 1566

Delta R.T. -0.32 min

Lab File: BF079612.D

Acq: 30 May 2015 19:41

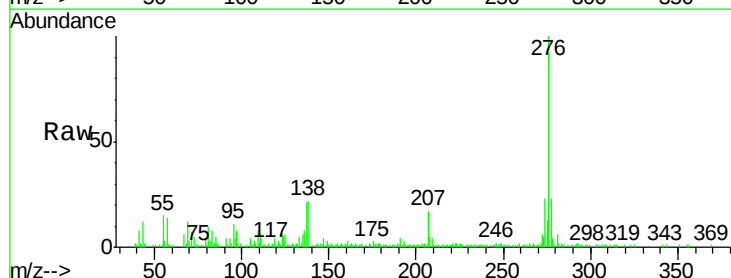
Tgt Ion:276 Resp: 79458

Ion Ratio Lower Upper

276 100

277 22.9 19.1 28.7

138 22.2 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

