

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050815\  
 Data File : BF079101.D  
 Acq On : 10 May 2015 1:10  
 Operator : TP/IZ  
 Sample : G2155-01 5X  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-45AS

Quant Time: May 11 02:11:06 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 11 01:50:36 2015  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.32	152	89736	20.00	ng	0.00
21) Naphthalene-d8	8.89	136	366291	20.00	ng	0.00
38) Acenaphthene-d10	11.07	164	175729	20.00	ng	0.00
63) Phenanthrene-d10	12.91	188	318271	20.00	ng	0.00
75) Chrysene-d12	16.21	240	311061	20.00	ng	0.00
86) Perylene-d12	17.91	264	327927	20.00	ng	-0.01

## System Monitoring Compounds

5) 2-Fluorophenol	5.62	112	105787	20.29	ng	0.00
7) Phenol-d6	6.88	99	143128	20.77	ng	0.00
23) Nitrobenzene-d5	8.01	82	77402	12.14	ng	0.00
41) 2,4,6-Tribromophenol	12.06	330	31355	16.49	ng	0.00
44) 2-Fluorobiphenyl	10.24	172	166503	13.20	ng	0.00
78) Terphenyl-d14	14.91	244	173867	13.38	ng	0.00

## Target Compounds

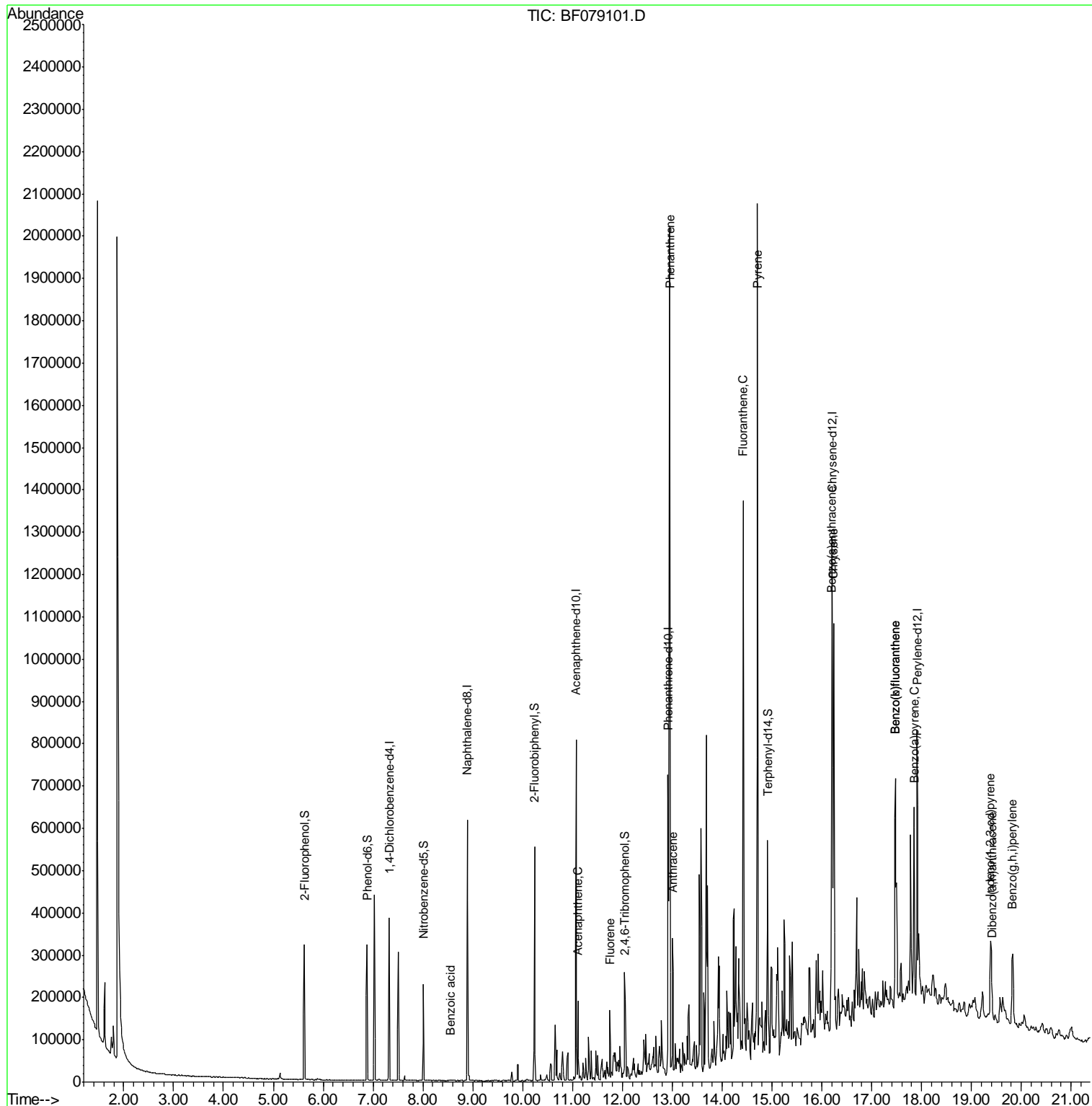
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
32) Benzoic acid	8.55	122	597	6.47	ng	88
51) Acenaphthene	11.11	154	42940	4.02	ng	96
57) Fluorene	11.75	166	46632	3.69	ng	99
70) Phenanthrene	12.95	178	773835	43.46	ng	100
71) Anthracene	13.01	178	169185	9.69	ng	98
74) Fluoranthene	14.42	202	760883	41.01	ng	98
77) Pyrene	14.71	202	881880	49.20	ng	98
80) Benzo(a)anthracene	16.19	228	421252	24.73	ng	97
82) Chrysene	16.24	228	377436	23.04	ng	98
85) Indeno(1,2,3-cd)pyrene	19.38	276	143599	6.88	ng	# 100
87) Benzo(b)fluoranthene	17.47	252	445196	24.80	ng	100
88) Benzo(k)fluoranthene	17.47	252	448697	25.82	ng	99
89) Benzo(a)pyrene	17.85	252	269602	16.31	ng	99
90) Dibenzo(a,h)anthracene	19.41	278	36532	2.08	ng	# 87
91) Benzo(g,h,i)perylene	19.83	276	147719	8.39	ng	99

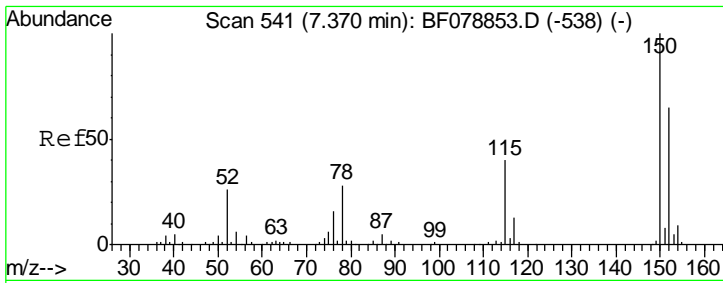
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050815\  
 Data File : BF079101.D  
 Acq On : 10 May 2015 1:10  
 Operator : TP/IZ  
 Sample : G2155-01 5X  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

Quant Time: May 11 02:11:06 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 11 01:50:36 2015  
 Response via : Initial Calibration

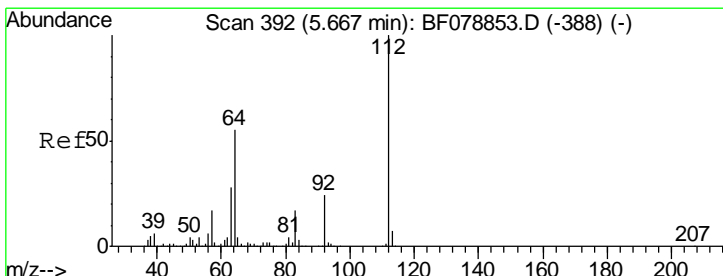
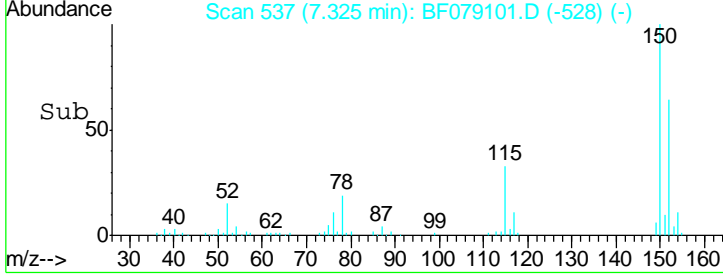
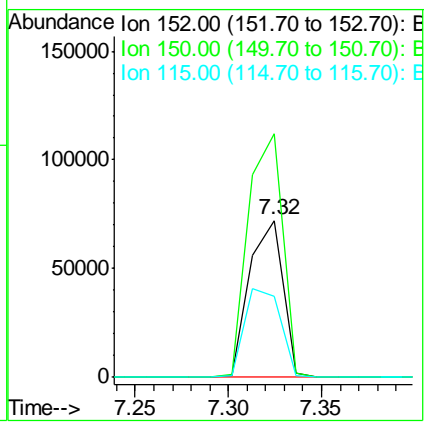
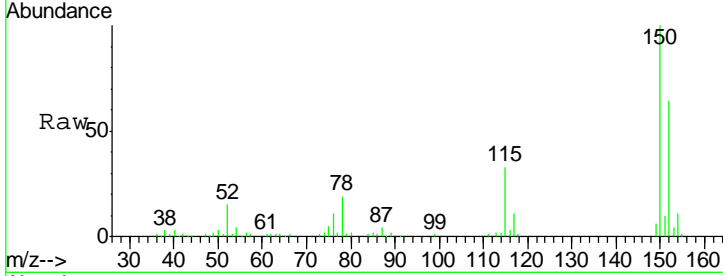




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.32 min Scan# 537  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

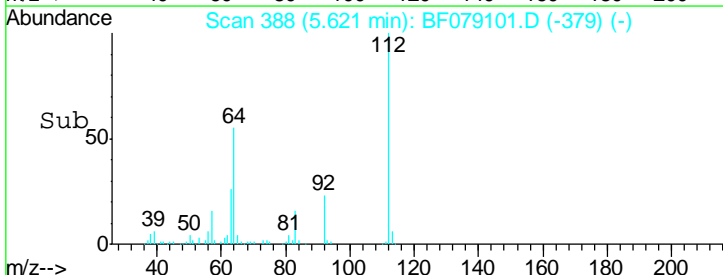
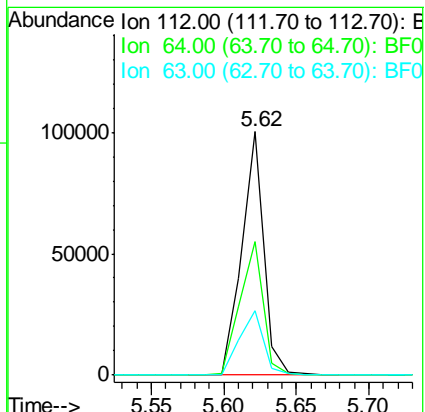
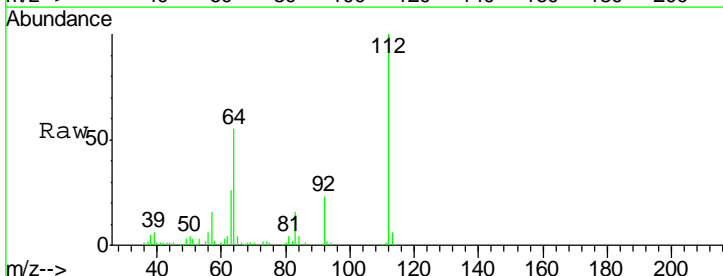
**Instrument :**  
 BNA\_F  
**ClientSampleId :**  
 SB-45AS

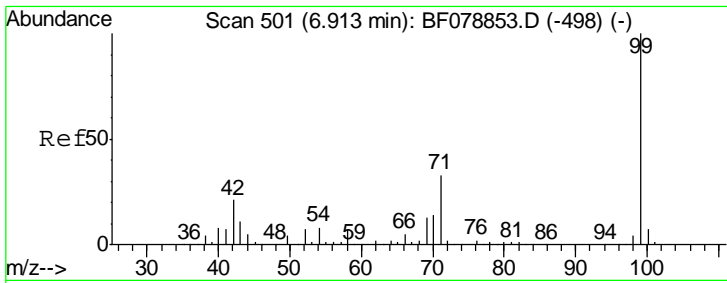
Tgt Ion	Resp	Lower	Upper
152	89736		
150	155.5	122.0	183.0
115	51.9	46.3	69.5



#5  
 2-Fluorophenol  
 Concen: 20.29 ng  
 RT: 5.62 min Scan# 388  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
112	105787		
64	54.6	53.5	80.3
63	26.4	27.5	41.3#

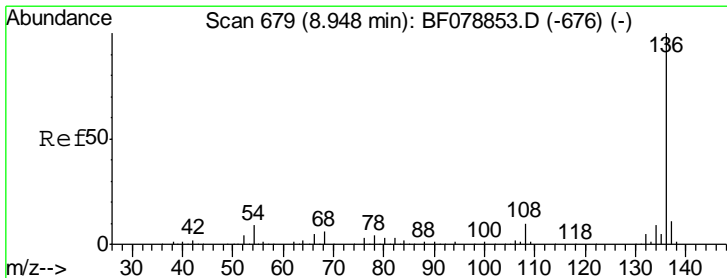
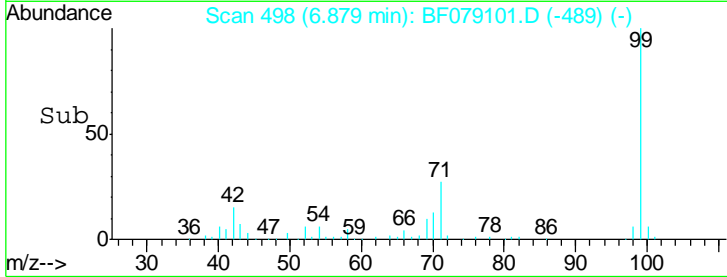
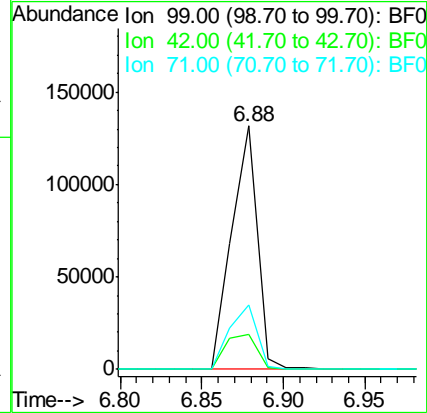
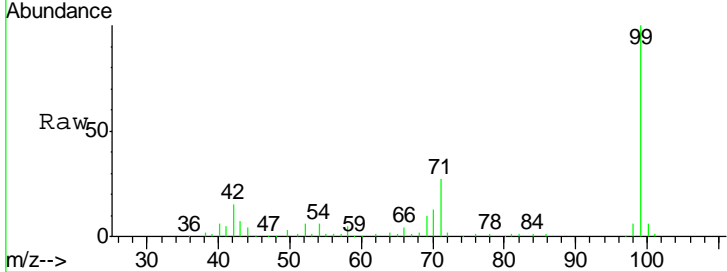




#7  
 Phenol-d6  
 Concen: 20.77 ng  
 RT: 6.88 min Scan# 498  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

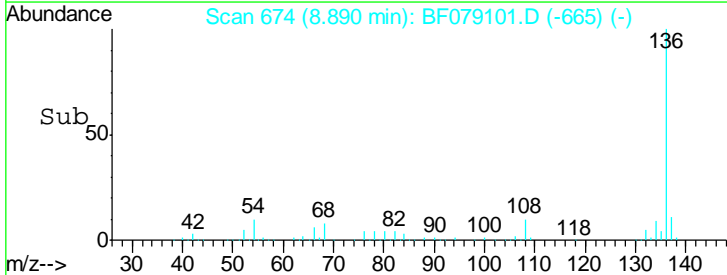
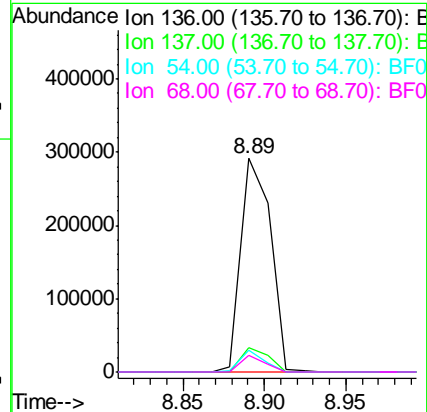
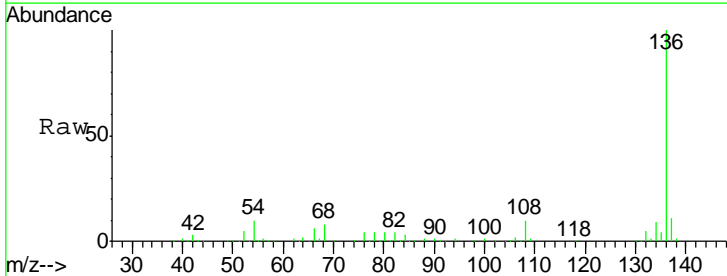
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

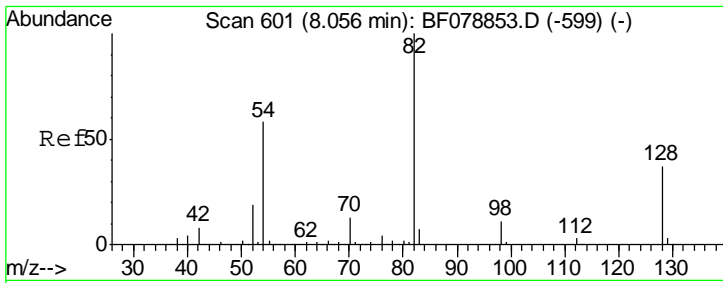
Tgt Ion	Resp	Lower	Upper
99	143128		
42	14.6	12.8	19.2
71	26.6	23.4	35.2



#21  
 Naphthalene-d8  
 Concen: 20.00 ng  
 RT: 8.89 min Scan# 674  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
136	366291		
137	11.5	8.7	13.1
54	10.2	5.8	8.8#
68	7.6	4.2	6.4#

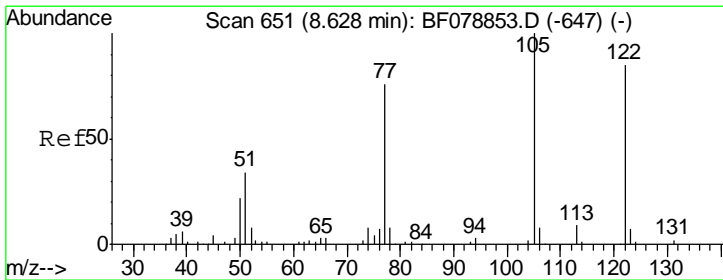
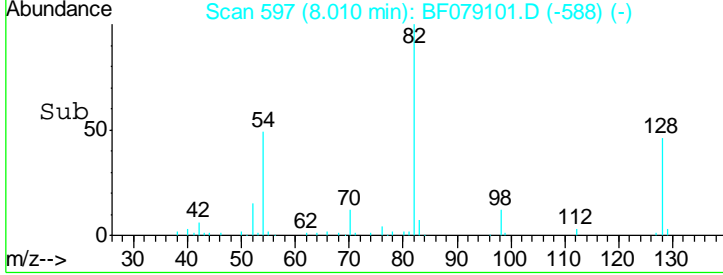
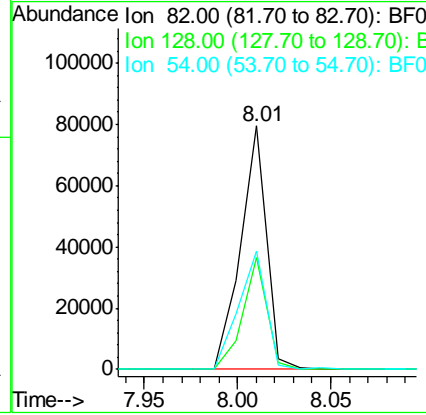
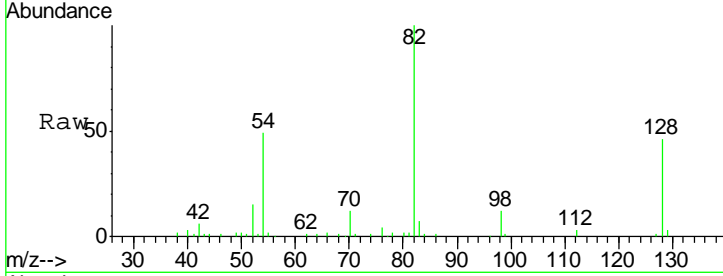




#23  
 Nitrobenzene-d5  
 Concen: 12.14 ng  
 RT: 8.01 min Scan# 597  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

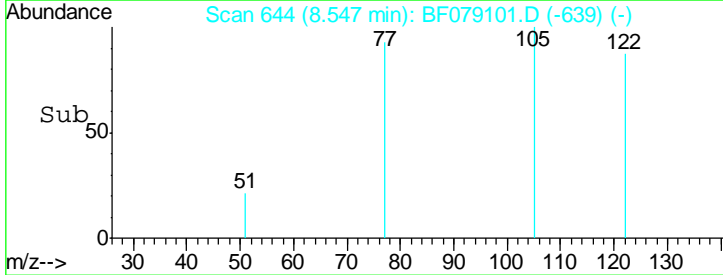
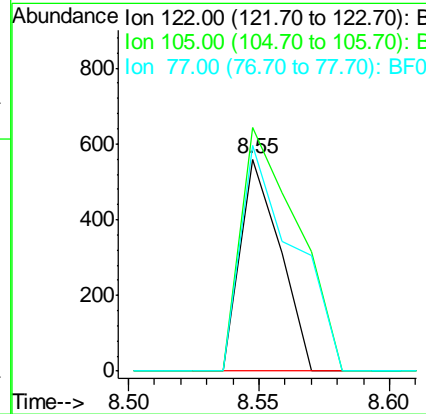
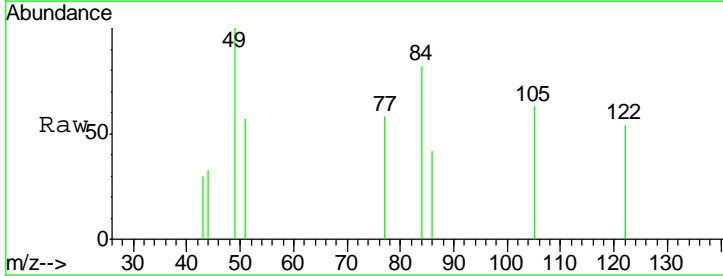
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

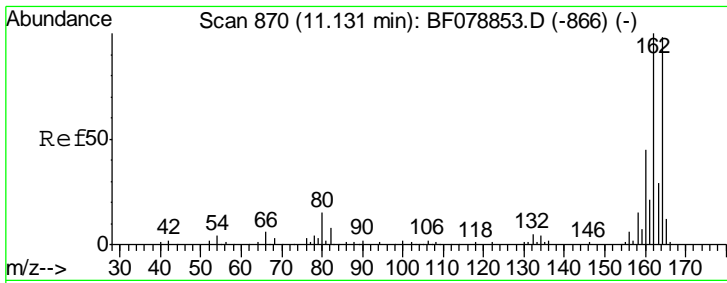
Tgt Ion	Resp	Lower	Upper
82	77402		
128	46.0	30.0	45.0#
54	48.5	46.4	69.6



#32  
 Benzoic acid  
 Concen: 6.47 ng  
 RT: 8.55 min Scan# 644  
 Delta R.T. -0.05 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
122	597		
105	115.0	107.1	147.1
77	106.8	73.9	113.9

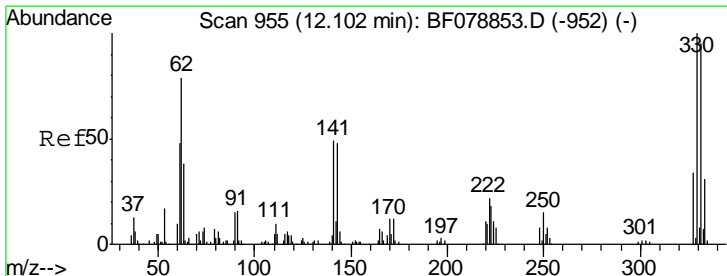
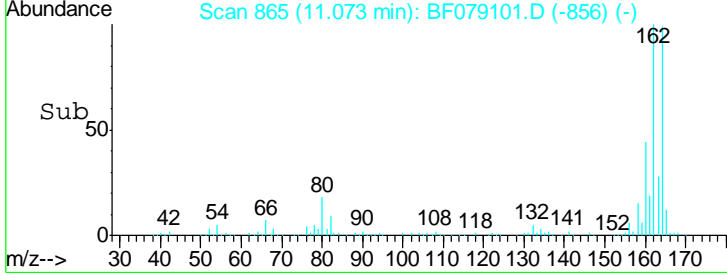
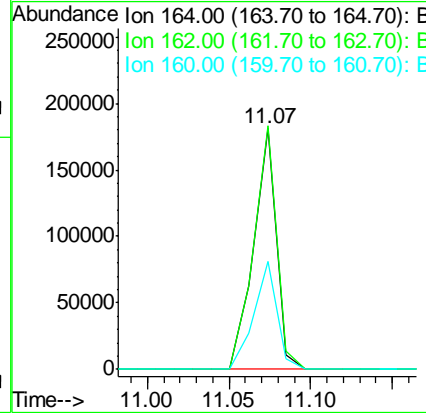
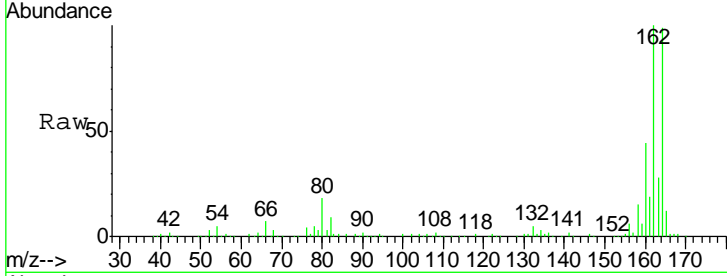




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.07 min Scan# 865  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

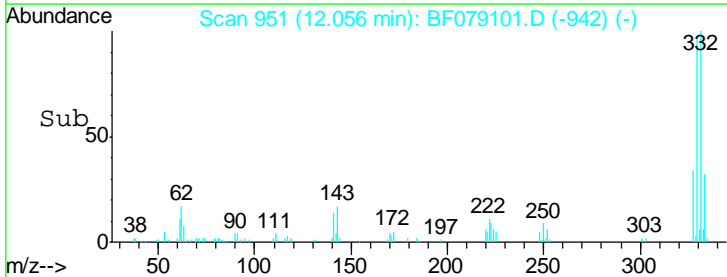
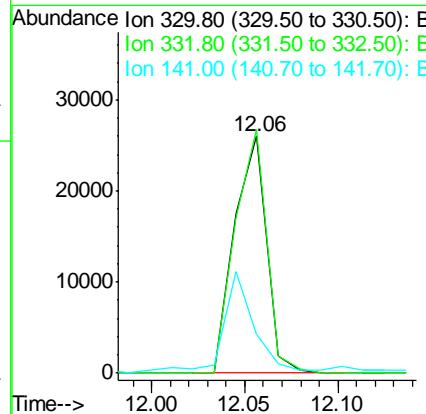
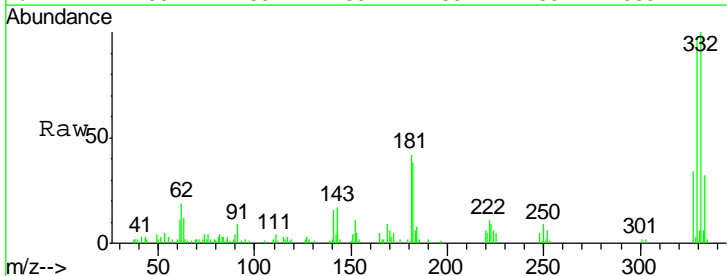
**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 SB-45AS

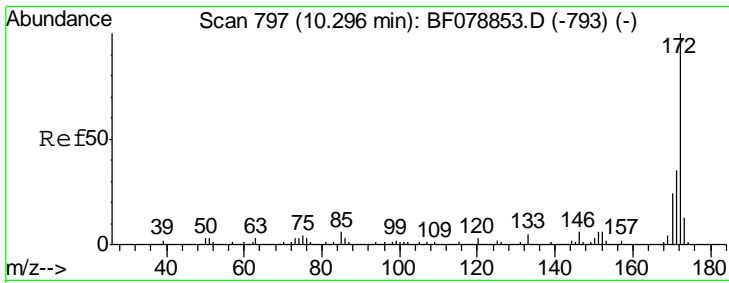
Tgt Ion	Resp	Lower	Upper
164	175729		
162	101.1	82.7	124.1
160	45.0	35.8	53.8



#41  
 2,4,6-Tribromophenol  
 Concen: 16.49 ng  
 RT: 12.06 min Scan# 951  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
330	31355		
332	100.7	0.0	0.0#
141	42.7	0.0	0.0#

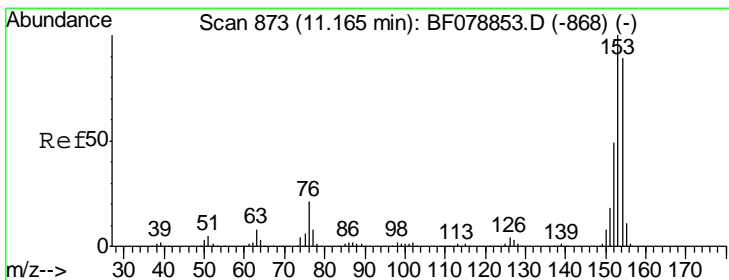
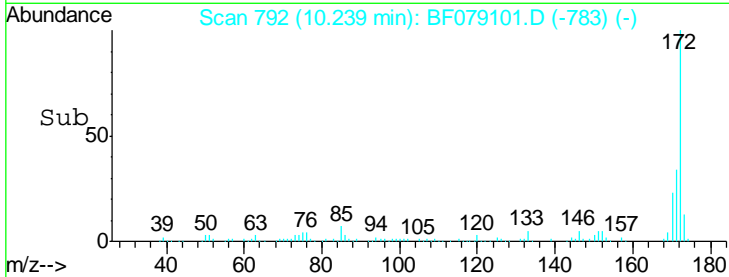
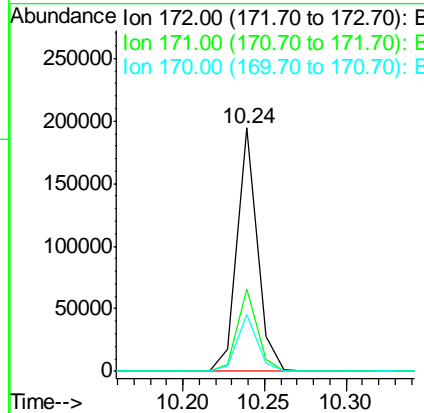
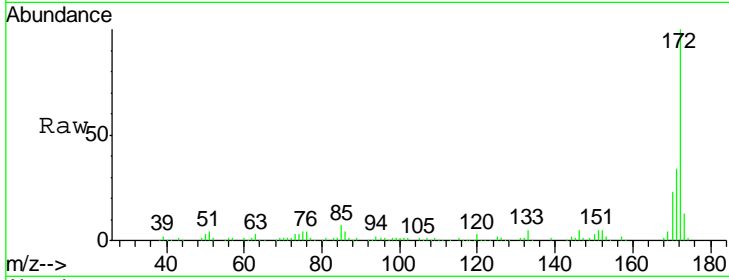




#44  
 2-Fluorobiphenyl  
 Concen: 13.20 ng  
 RT: 10.24 min Scan# 792  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

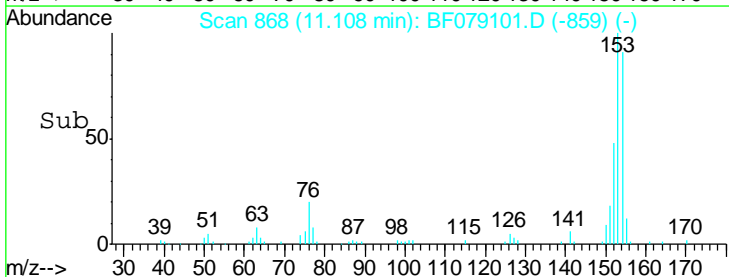
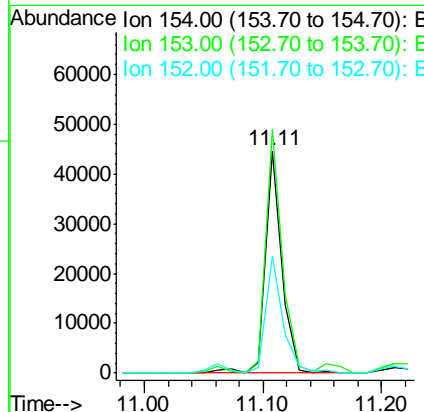
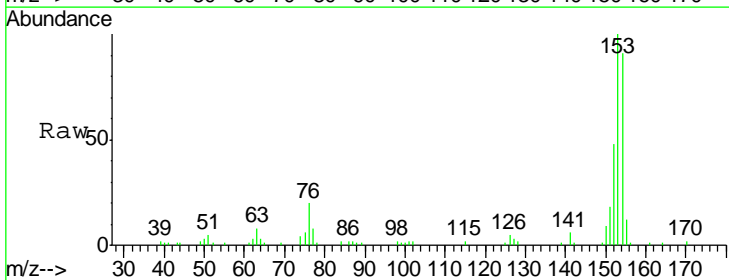
Instrument :  
 BNA\_F  
 ClientSampleID :  
 SB-45AS

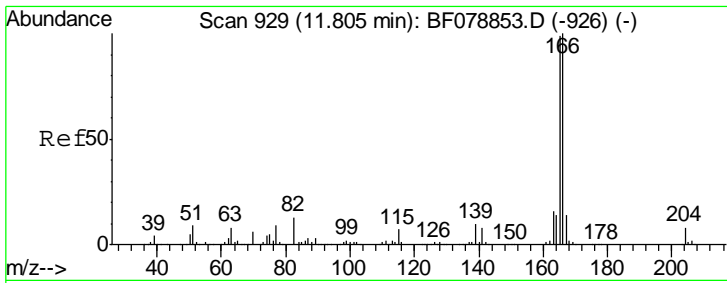
Tgt Ion	Resp	Lower	Upper
172	166503		
171	34.1	27.9	41.9
170	23.2	19.4	29.0



#51  
 Acenaphthene  
 Concen: 4.02 ng  
 RT: 11.11 min Scan# 868  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
154	42940		
153	109.6	91.5	137.3
152	52.4	44.2	66.4

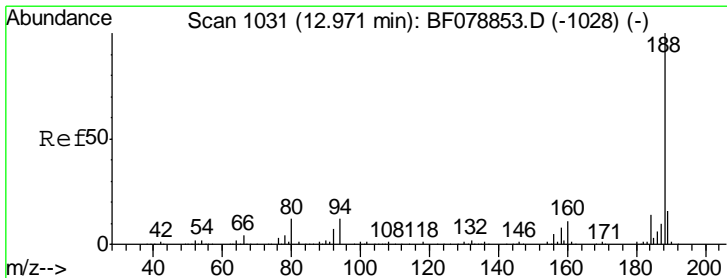
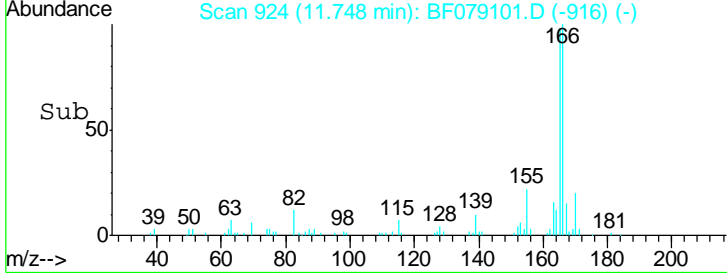
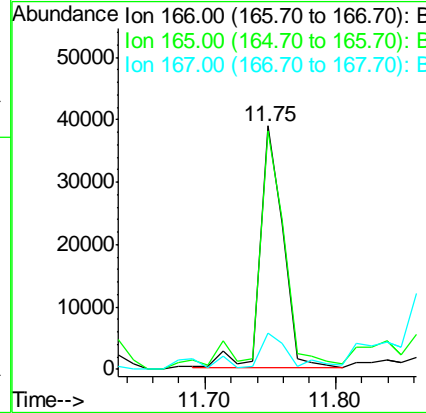
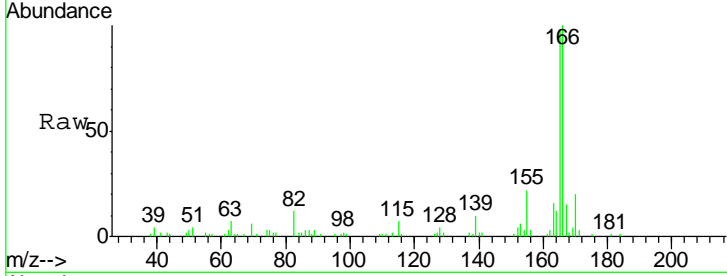




#57  
 Fluorene  
 Concen: 3.69 ng  
 RT: 11.75 min Scan# 924  
 Delta R.T. -0.01 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

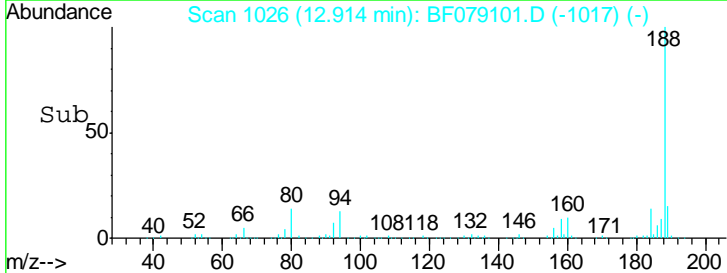
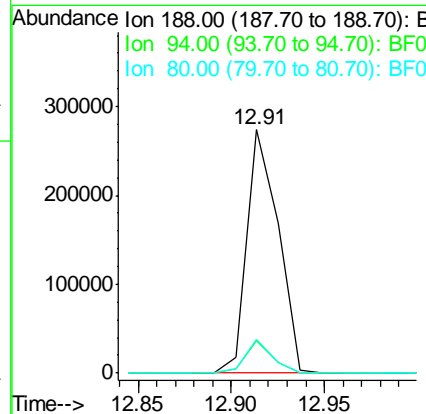
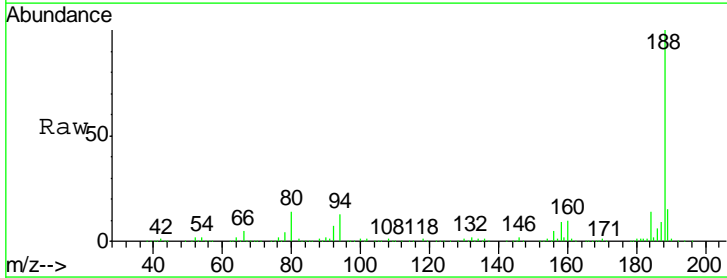
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

Tgt Ion	Resp	Lower	Upper
166	46632		
165	97.7	78.5	117.7
167	14.9	11.0	16.6

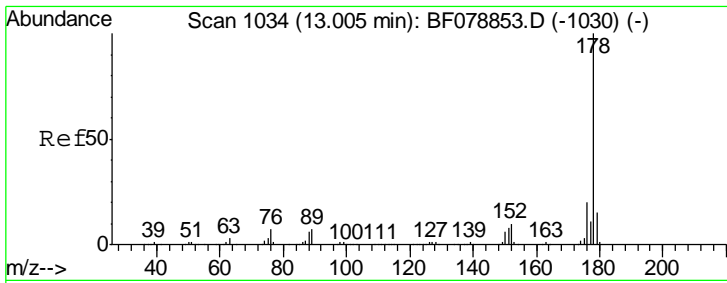


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.91 min Scan# 1026  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
188	318271		
94	13.1	8.2	12.2#
80	13.7	8.9	13.3#



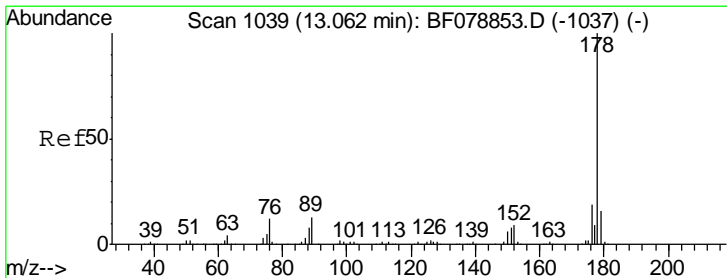
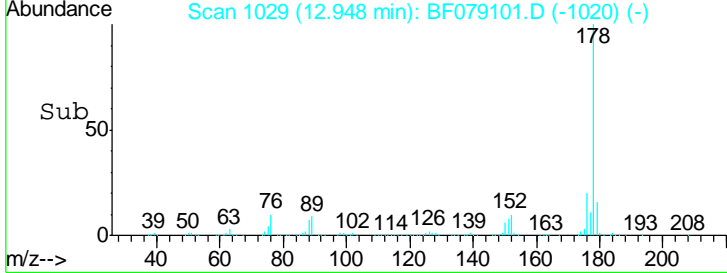
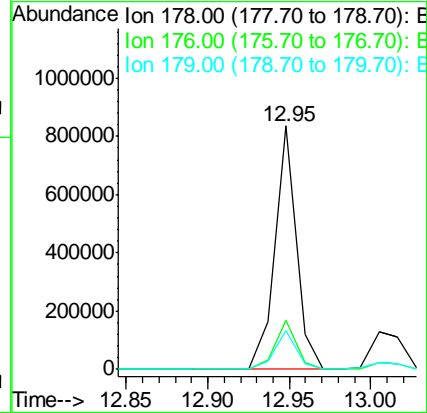
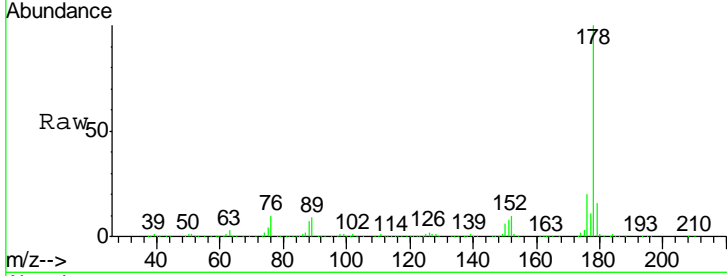




#70  
 Phenanthrene  
 Concen: 43.46 ng  
 RT: 12.95 min Scan# 1029  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

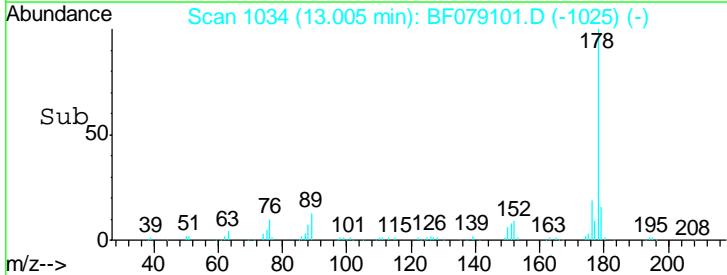
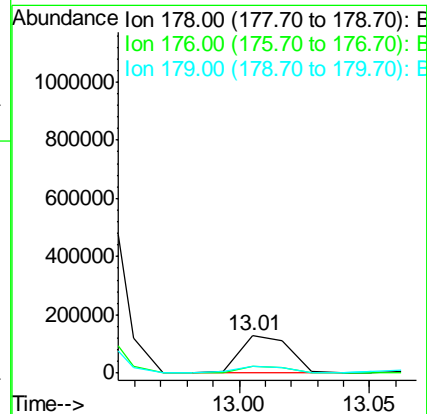
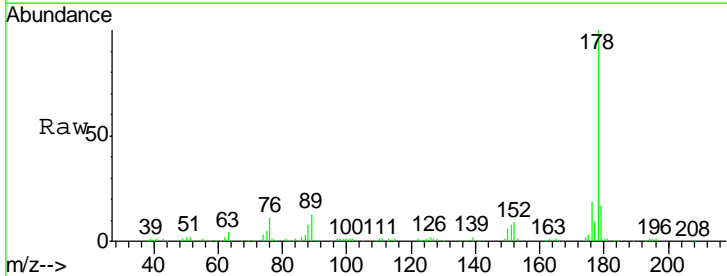
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

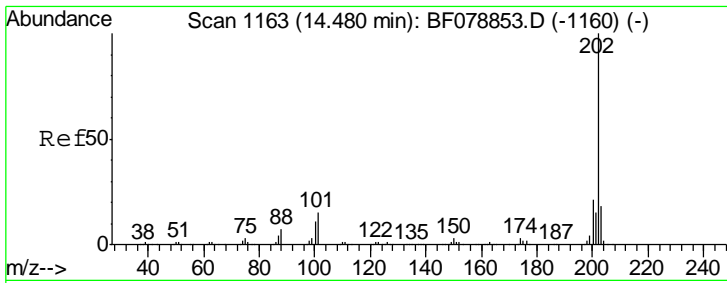
Tgt Ion	Resp	Lower	Upper
178	100		
176	19.9	15.8	23.8
179	15.8	12.5	18.7



#71  
 Anthracene  
 Concen: 9.69 ng  
 RT: 13.01 min Scan# 1034  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
178	100		
176	18.8	15.5	23.3
179	16.7	12.7	19.1

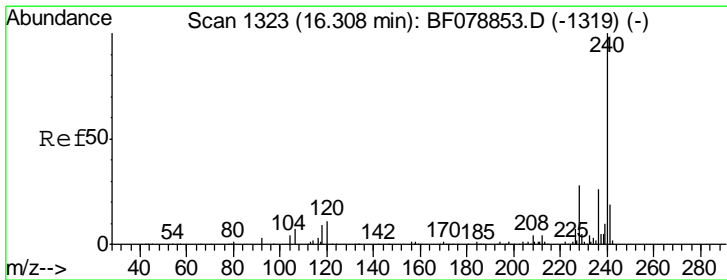
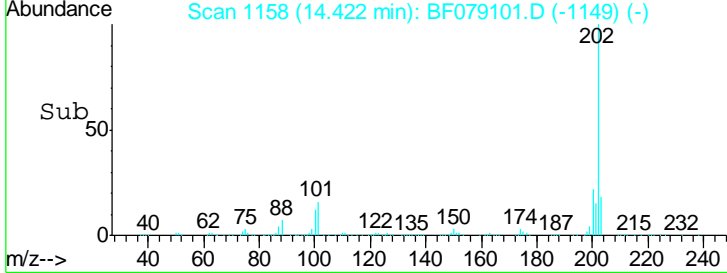
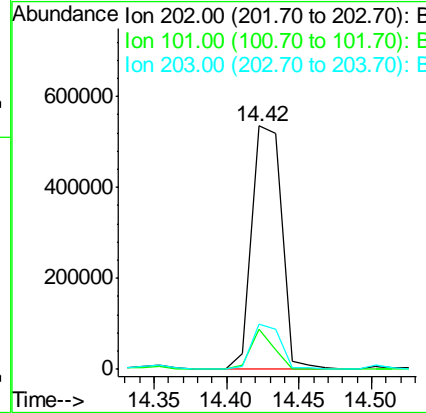
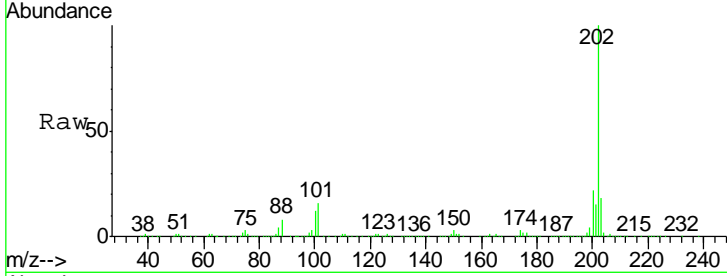




#74  
 Fluoranthene  
 Concen: 41.01 ng  
 RT: 14.42 min Scan# 1158  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

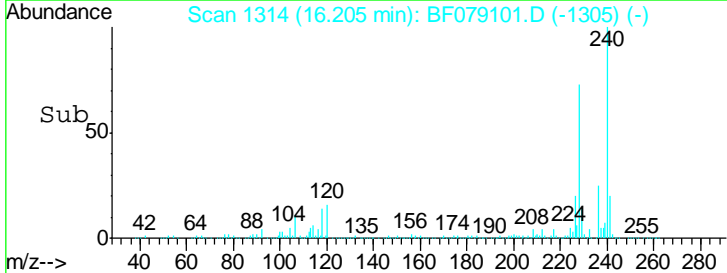
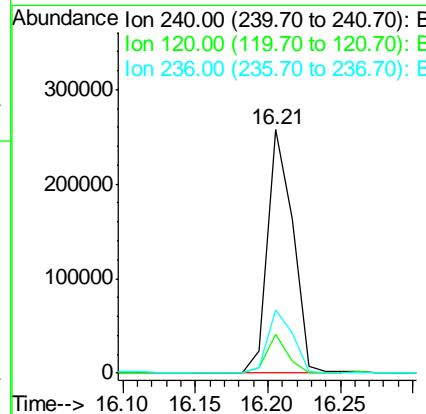
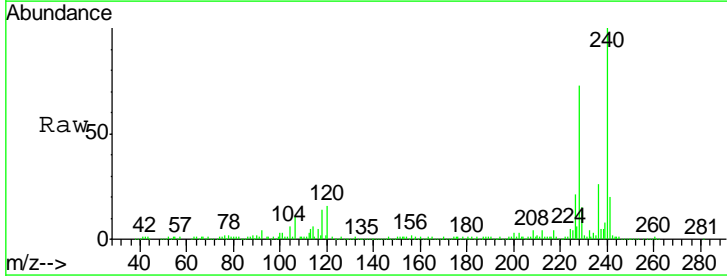
Instrument :  
 BNA\_F  
 ClientSampleID :  
 SB-45AS

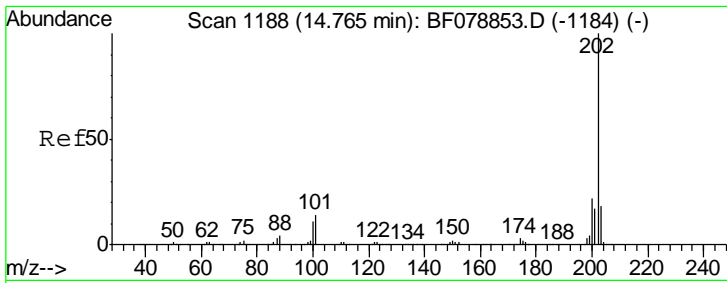
Tgt Ion	Resp	Lower	Upper
202	760883		
101	16.3	0.0	34.6
203	18.4	0.0	38.4



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 16.21 min Scan# 1314  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
240	311061		
120	15.8	9.7	14.5#
236	25.9	20.2	30.4

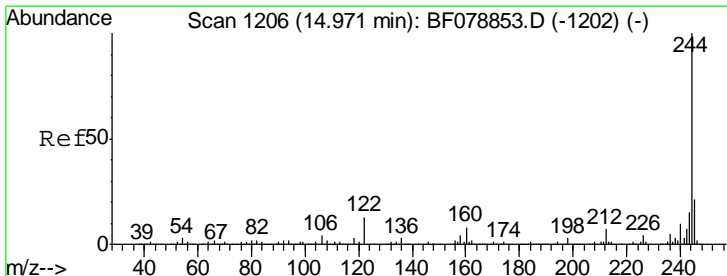
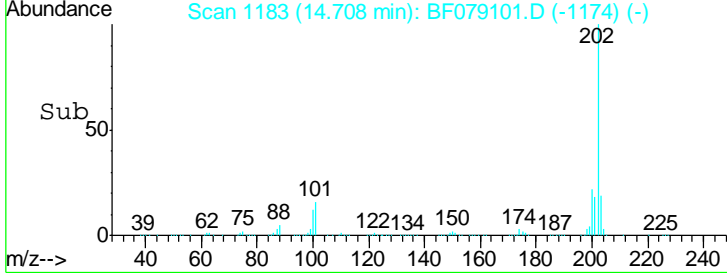
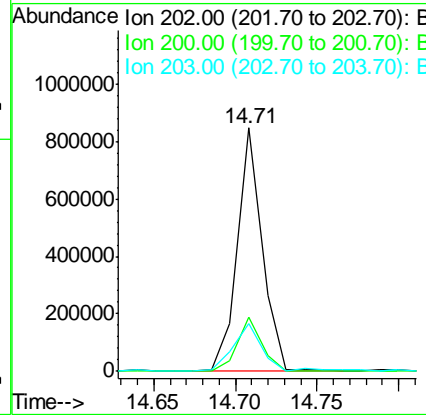
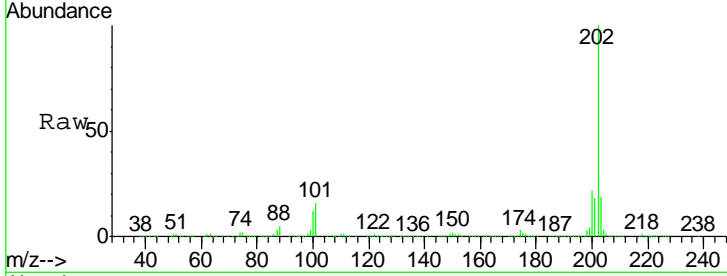




#77  
 Pyrene  
 Concen: 49.20 ng  
 RT: 14.71 min Scan# 1183  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

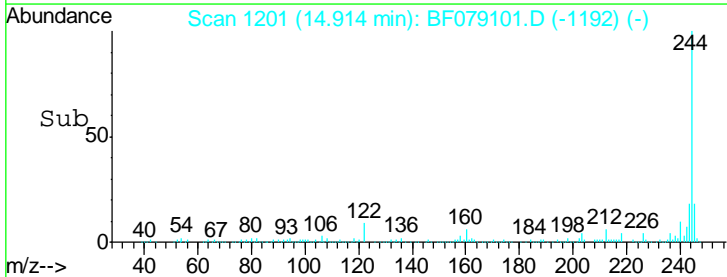
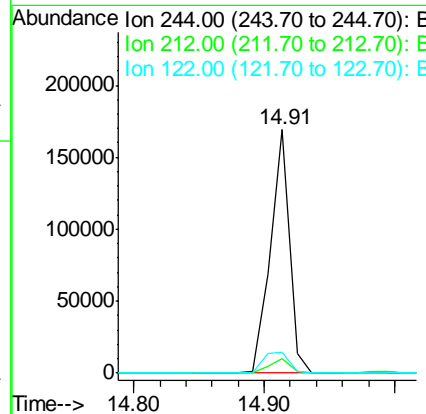
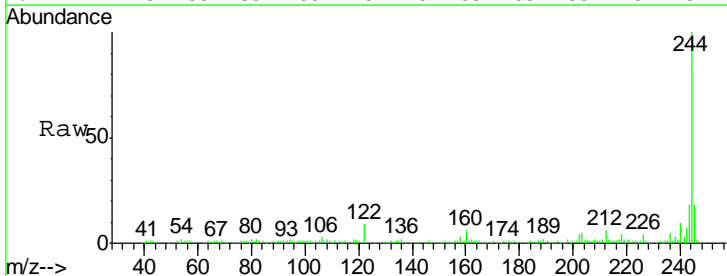
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

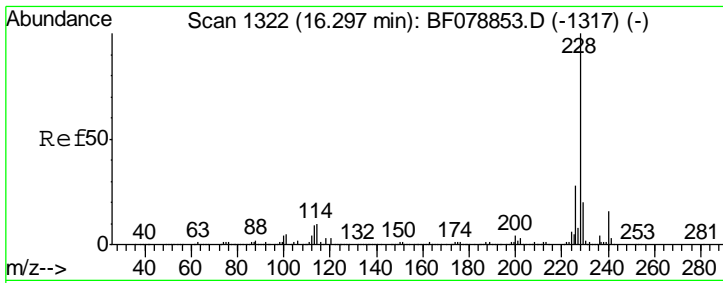
Tgt Ion	Resp	Lower	Upper
202	100		
200	22.2	17.5	26.3
203	19.4	13.9	20.9



#78  
 Terphenyl-d14  
 Concen: 13.38 ng  
 RT: 14.91 min Scan# 1201  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
244	100		
212	6.0	5.6	8.4
122	8.8	10.3	15.5#

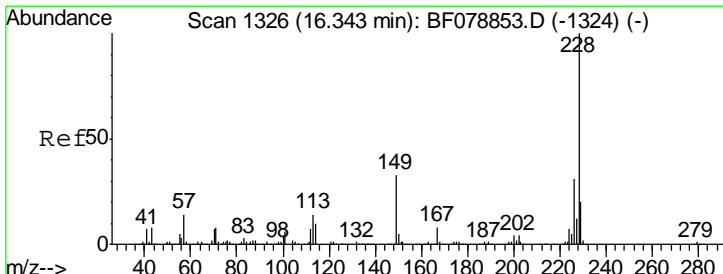
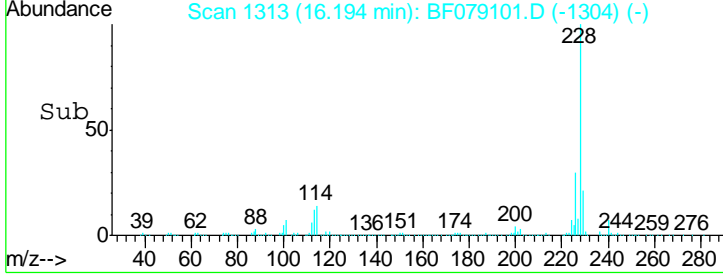
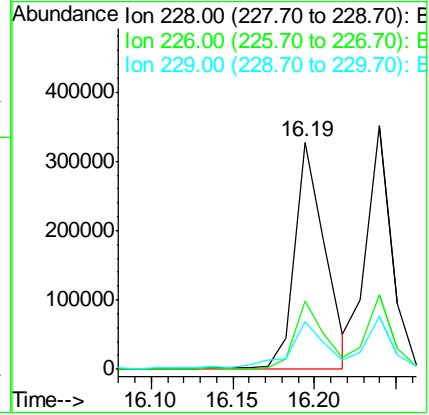
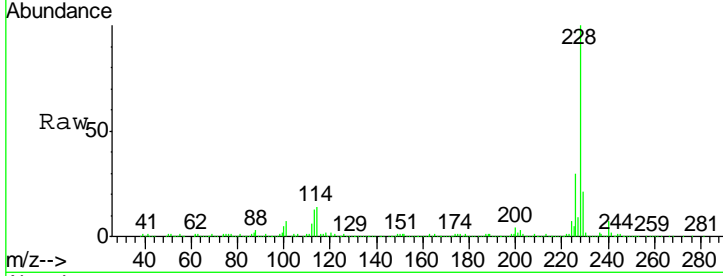




#80  
 Benzo(a)anthracene  
 Concen: 24.73 ng  
 RT: 16.19 min Scan# 1313  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

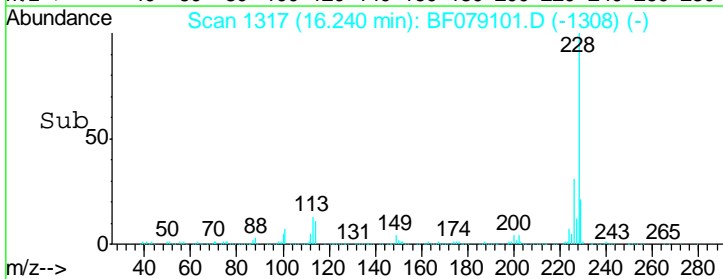
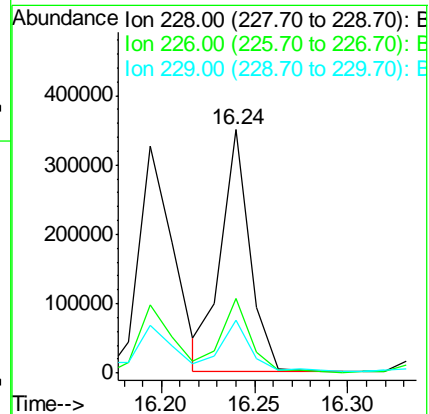
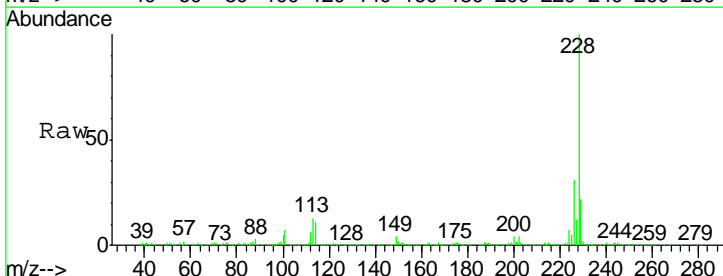
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

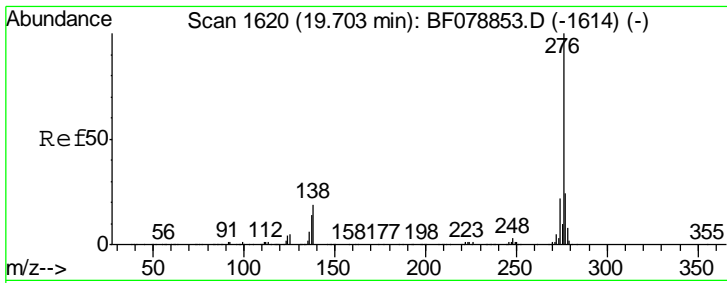
Tgt Ion	Resp	Lower	Upper
228	421252		
226	30.2	22.6	33.8
229	21.1	15.9	23.9



#82  
 Chrysene  
 Concen: 23.04 ng  
 RT: 16.24 min Scan# 1317  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
228	377436		
226	30.8	24.9	37.3
229	21.6	16.0	24.0

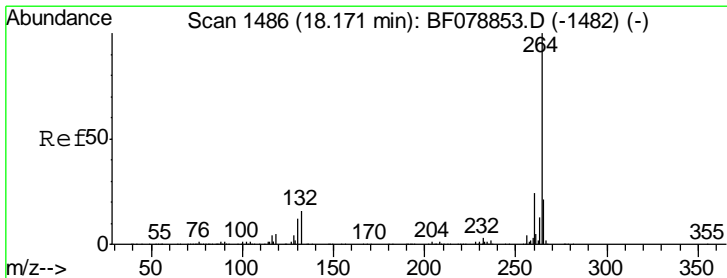
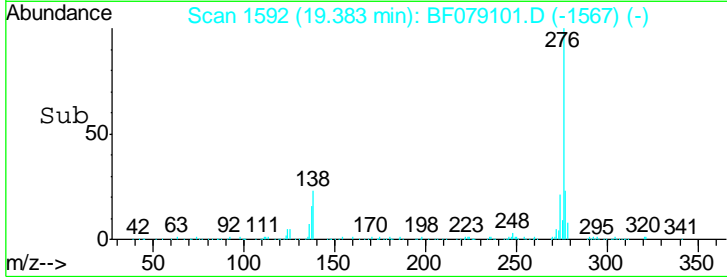
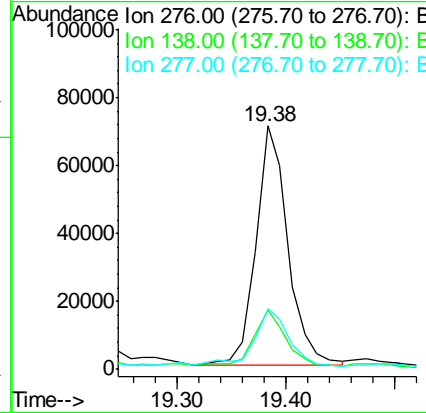
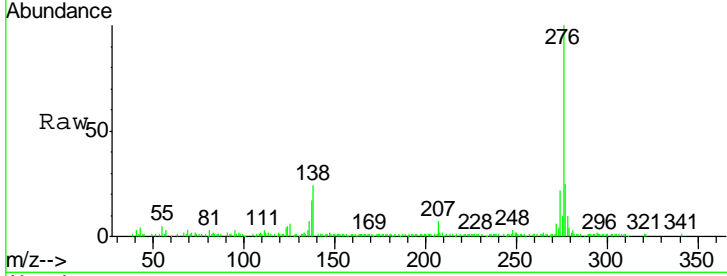




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.88 ng  
 RT: 19.38 min Scan# 1592  
 Delta R.T. -0.01 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

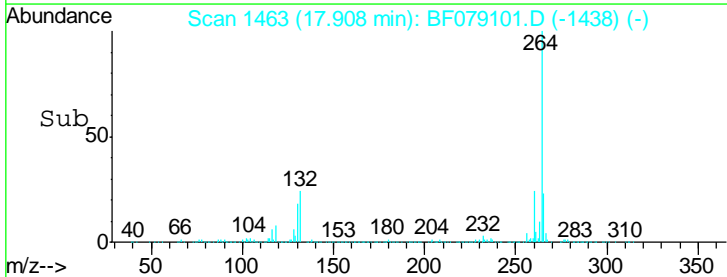
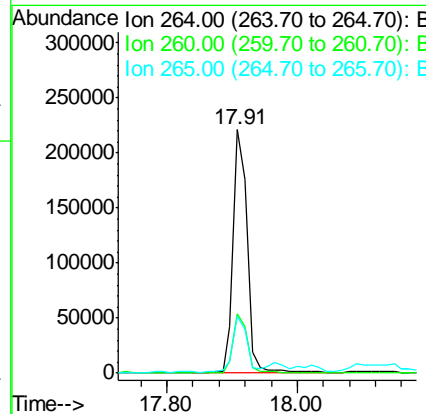
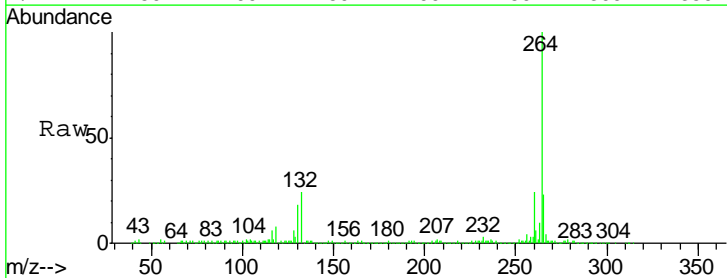
**Instrument :**  
 BNA\_F  
**ClientSampled :**  
 SB-45AS

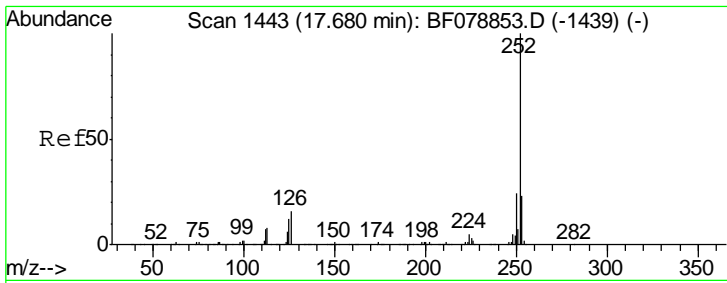
Tgt Ion	Resp	Lower	Upper
276	143599		
138	23.2	0.0	0.0#
277	26.8	0.0	0.0#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 17.91 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
264	327927		
260	24.4	19.4	29.2
265	23.1	18.3	27.5

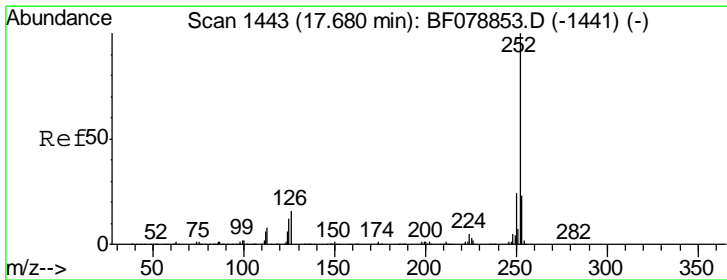
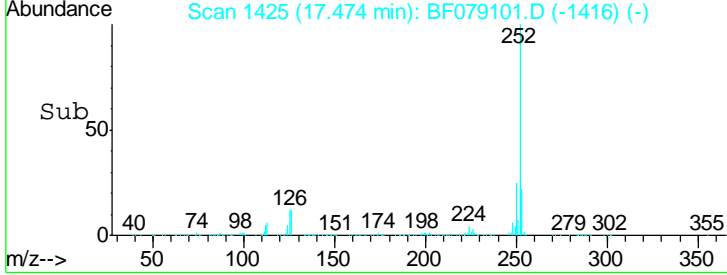
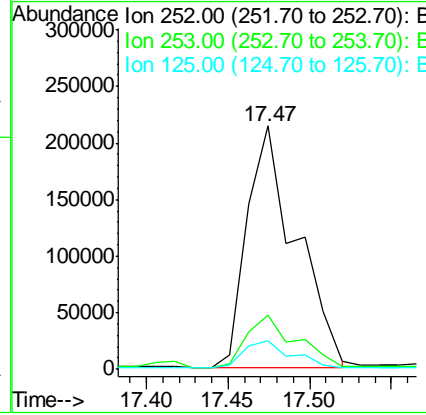
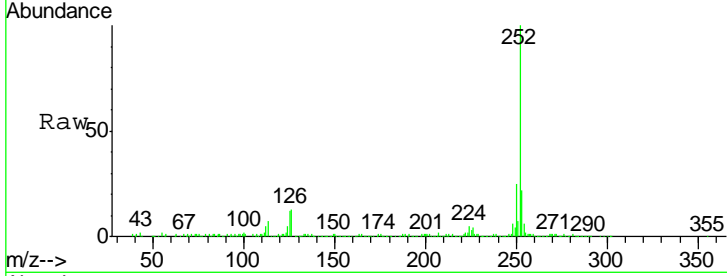




#87  
 Benzo(b)fluoranthene  
 Concen: 24.80 ng  
 RT: 17.47 min Scan# 1425  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

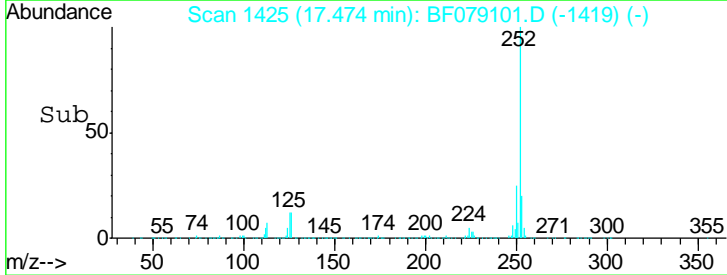
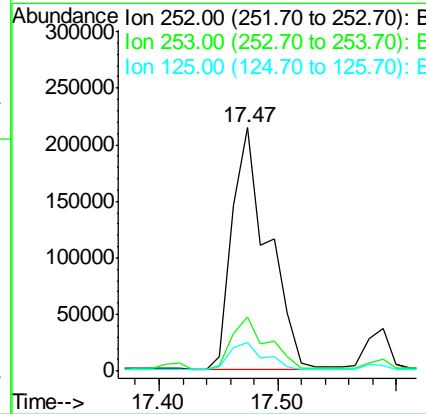
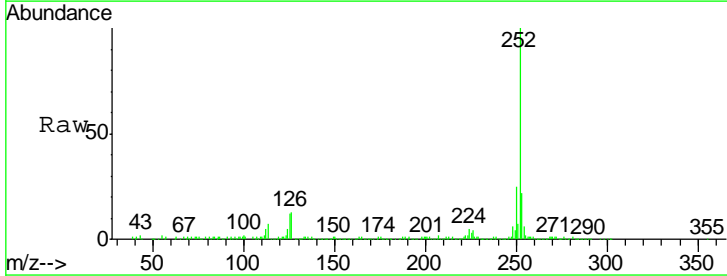
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

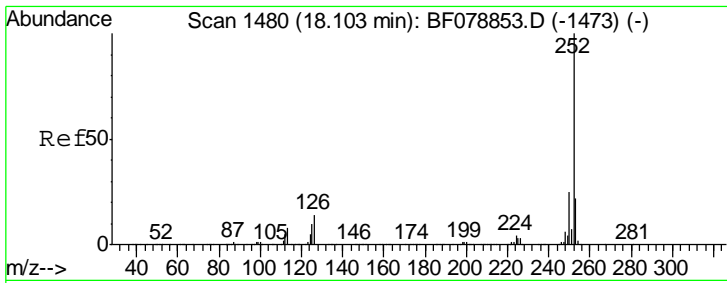
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.4	17.7	26.5
125	12.0	9.5	14.3



#88  
 Benzo(k)fluoranthene  
 Concen: 25.82 ng  
 RT: 17.47 min Scan# 1425  
 Delta R.T. -0.03 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	12.0	10.0	15.0

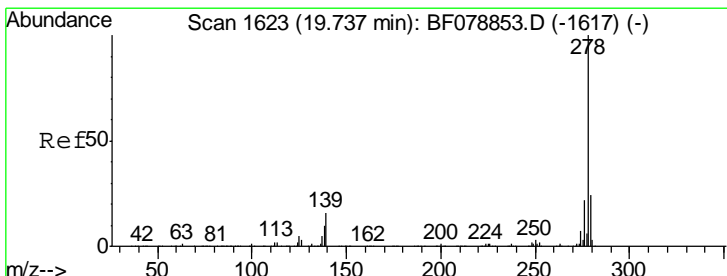
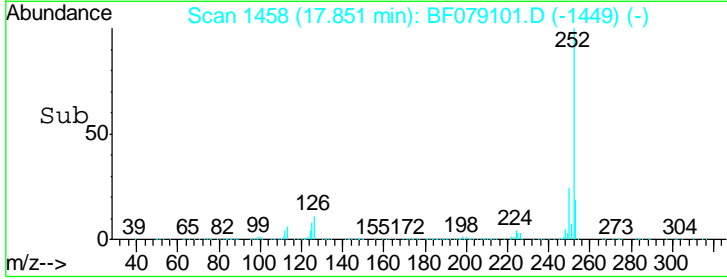
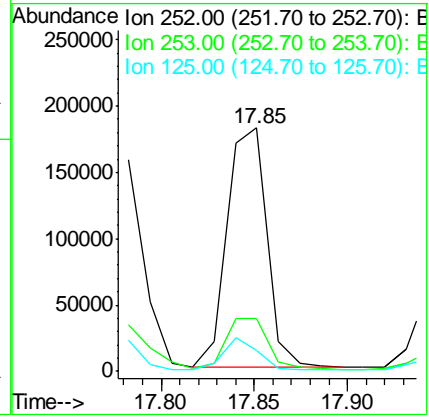
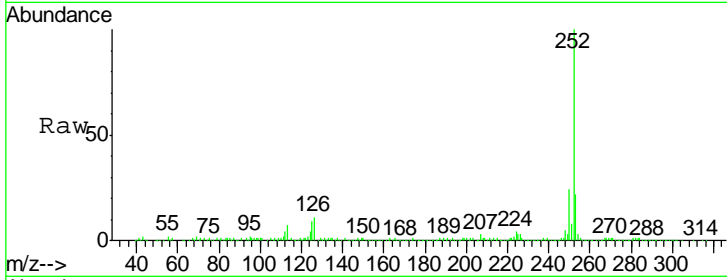




#89  
 Benzo(a)pyrene  
 Concen: 16.31 ng  
 RT: 17.85 min Scan# 1458  
 Delta R.T. -0.00 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

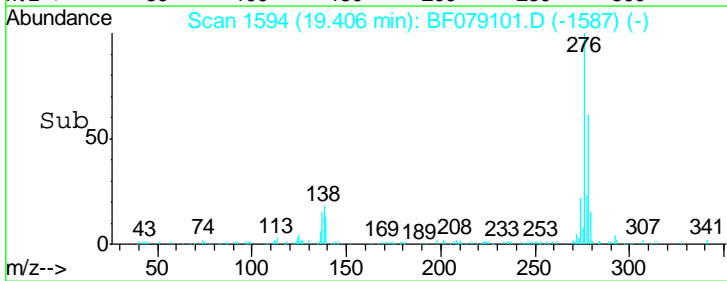
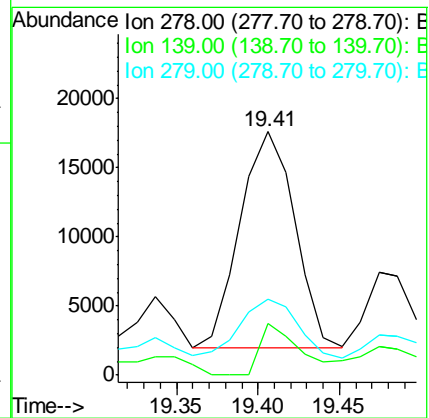
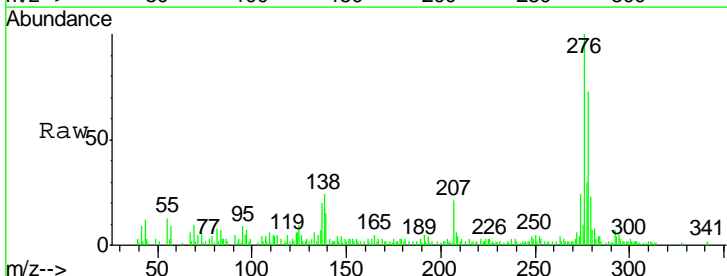
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-45AS

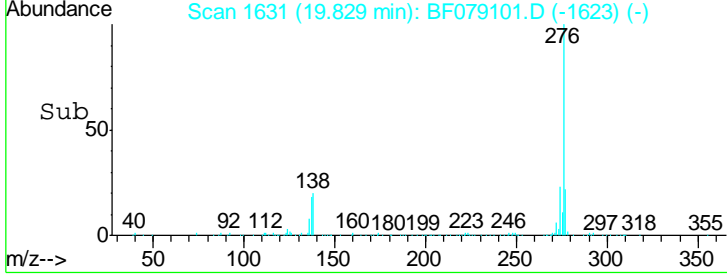
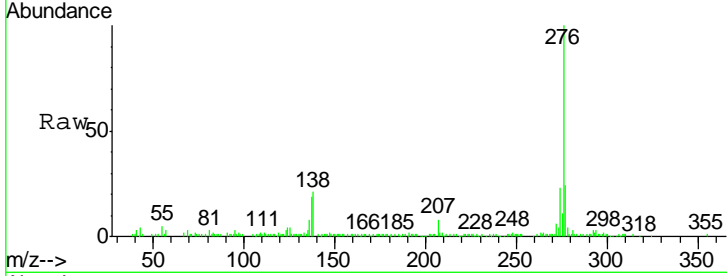
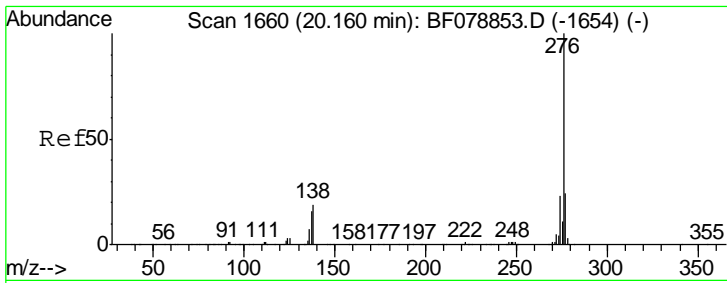
Tgt Ion	Resp	Lower	Upper
252	269602		
253	22.0	17.3	25.9
125	8.8	7.0	10.6



#90  
 Dibenzo(a,h)anthracene  
 Concen: 2.08 ng  
 RT: 19.41 min Scan# 1594  
 Delta R.T. -0.02 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Tgt Ion	Resp	Lower	Upper
278	36532		
278	100		
139	21.2	12.8	19.2#
279	31.4	19.6	29.4#





#91  
 Benzo(g,h,i)perylene  
 Concen: 8.39 ng  
 RT: 19.83 min Scan# 1631  
 Delta R.T. -0.01 min  
 Lab File: BF079101.D  
 Acq: 10 May 2015 1:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-45AS

Tgt Ion	Resp	Lower	Upper
276	147719		
277	23.6	18.6	28.0
138	21.2	17.4	26.0

