

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
 Data File : BF093783.D
 Acq On : 21 Mar 2017 00:00
 Operator : SJ/MA
 Sample : I2318-07 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HP-PW-01

Manual Integrations
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 3/21/2017 2:45:48 PM

Quant Time: Mar 21 02:15:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 20 16:03:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	219748	20.00	ng	-0.01
21) Naphthalene-d8	8.13	136	792281	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	411271	20.00	ng	-0.01
63) Phenanthrene-d10	11.35	188	644434	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	403016	20.00	ng	-0.02
86) Perylene-d12	15.39	264	379233	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	154689	12.31	ng	-0.02
7) Phenol-d6	6.46	99	205375	13.23	ng	-0.02
23) Nitrobenzene-d5	7.40	82	112573	8.06	ng	-0.01
41) 2,4,6-Tribromophenol	10.65	330	32161	10.10	ng	-0.02
44) 2-Fluorobiphenyl	9.20	172	235884	9.64	ng	-0.01
78) Terphenyl-d14	12.93	244	160917	8.14	ng	-0.02
Target Compounds						Qvalue
30) 1,2,4-Trichlorobenzene	8.07	180	107680	9.82	ng	99
31) Naphthalene	8.16	128	8079366	219.70	ng	96
37) 2-Methylnaphthalene	8.85	142	3061682	127.54	ng	97
45) 1,1'-Biphenyl	9.30	154	759442	22.72	ng	98
48) Acenaphthylene	9.74	152	533659	12.80	ng	# 93
51) Acenaphthene	9.91	154	257776	10.35	ng	# 89
54) Dibenzofuran	10.08	168	396211m	11.82	ng	
57) Fluorene	10.42	166	1194671m	46.54	ng	
70) Phenanthrene	11.38	178	3750919m	109.29	ng	
71) Anthracene	11.43	178	1290866m	36.53	ng	
72) Carbazole	11.58	167	145907	4.17	ng	99
74) Fluoranthene	12.58	202	2335014	66.19	ng	99
77) Pvrene	12.80	202	2691175	80.24	ng	99
80) Benzo(a)anthracene	13.97	228	1091054	43.22	ng	95
82) Chrysene	14.00	228	741061m	29.38	ng	
85) Indeno(1,2,3-cd)pyrene	16.75	276	320116	15.50	ng	95
87) Benzo(b)fluoranthene	15.00	252	918288m	35.92	ng	
88) Benzo(k)fluoranthene	15.01	252	197777m	10.48	ng	
89) Benzo(a)pvrene	15.33	252	671609m	32.40	ng	
90) Dibenzo(a,h)anthracene	16.76	278	87706m	5.10	ng	
91) Benzo(g,h,i)perylene	17.16	276	301866	17.67	ng	98

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

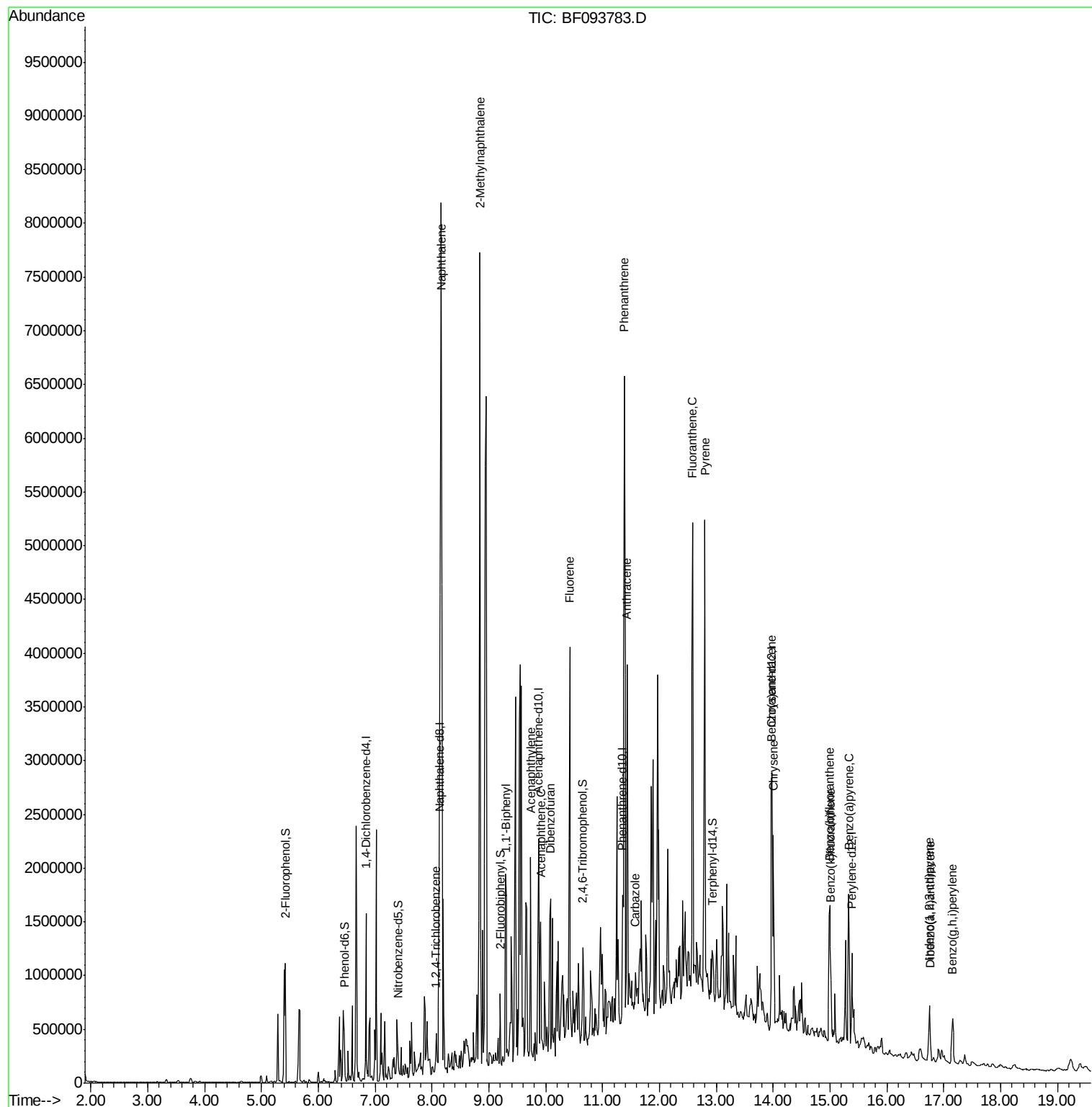
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\
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ALS Vial : 18 Sample Multiplier: 1

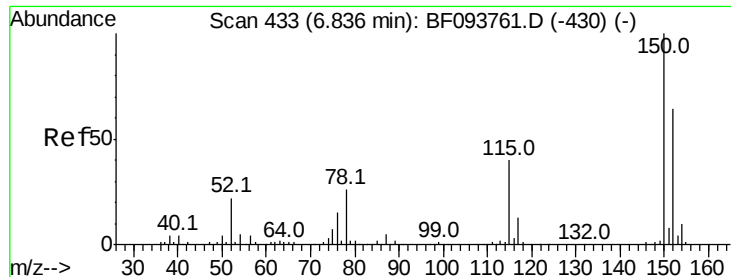
Instrument :
BNA_F
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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

ClientSampleId :

HP-PW-01

Tot Ion:152 Resp: 219748

Ion Ratio Lower Upper

152 100

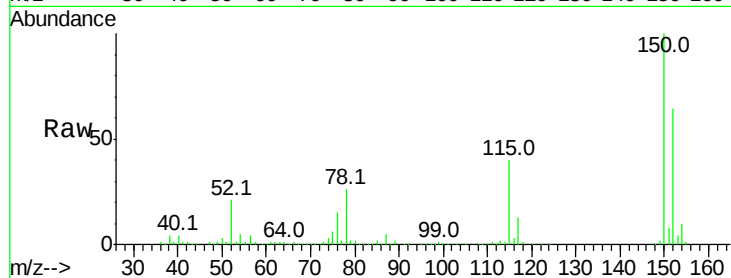
150 155.5 126.2 189.2

115 61.9 52.2 78.2

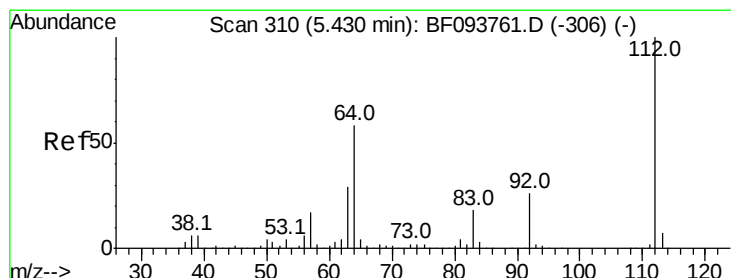
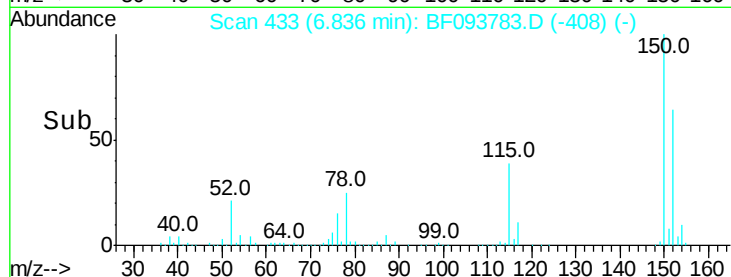
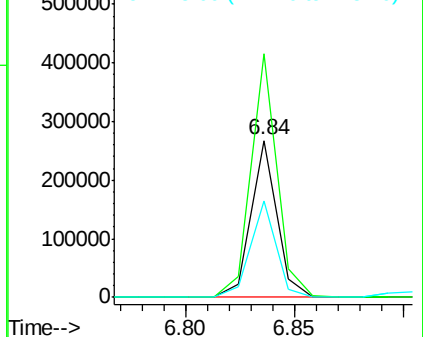
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 12.31 ng

RT: 5.42 min Scan# 309

Delta R.T. -0.02 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

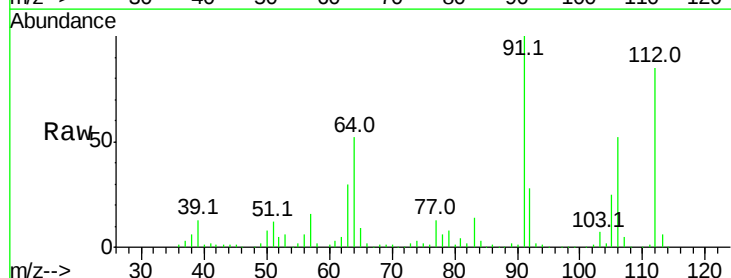
Tgt Ion:112 Resp: 154689

Ion Ratio Lower Upper

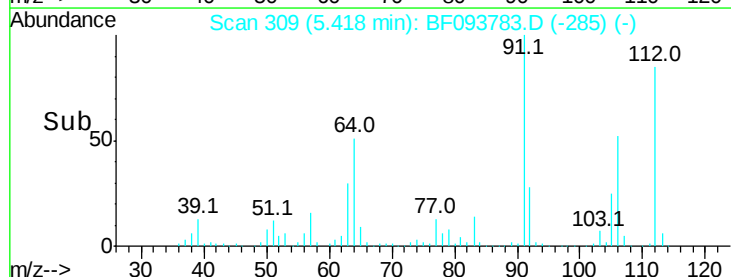
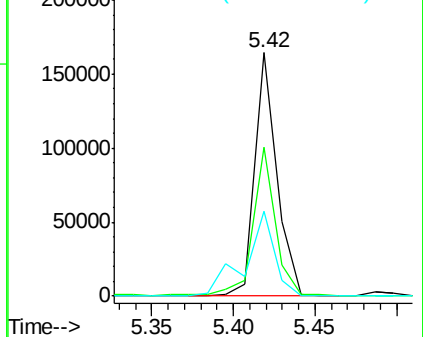
112 100

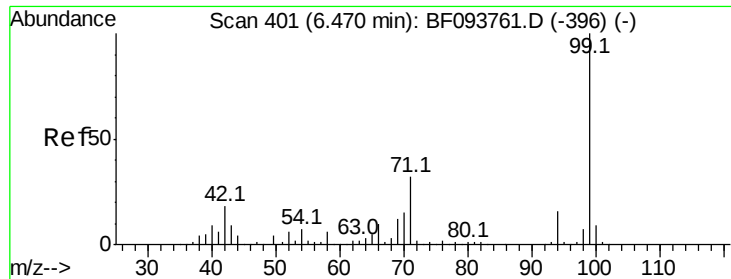
64 61.2 46.0 69.0

63 35.0 23.4 35.0



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: 13.23 ng

RT: 6.46 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

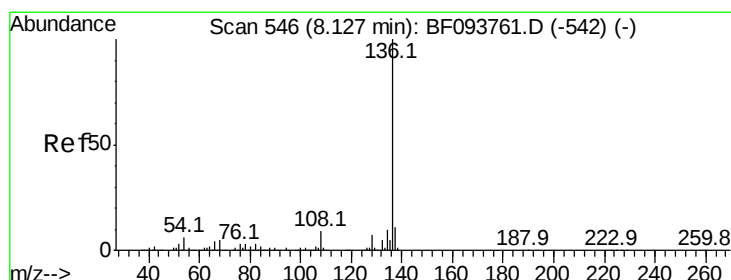
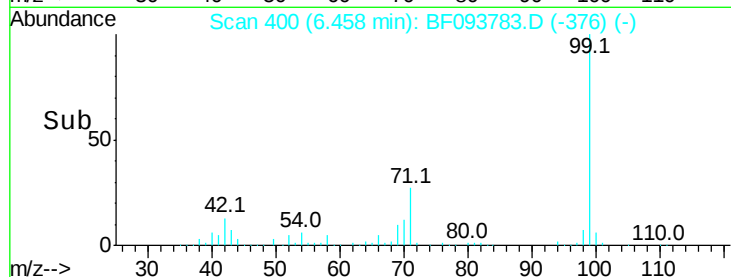
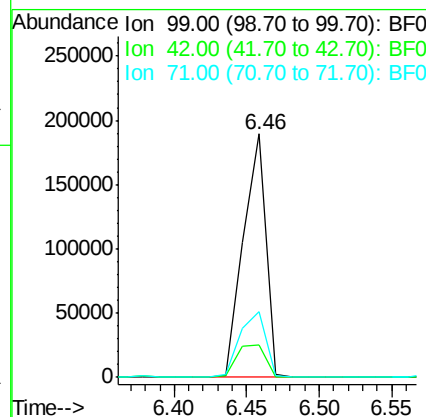
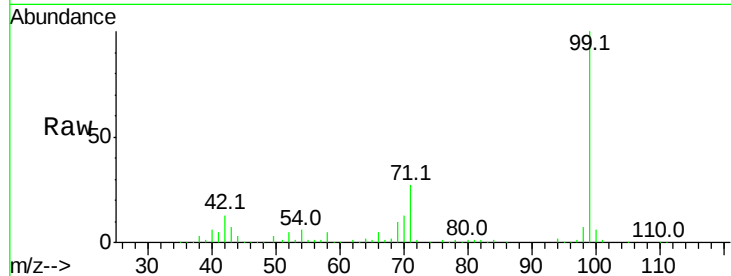
ClientSampleId :

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Tot Ion	Ratio	Resp	Lower	Upper
99	100	205375		
42	13.4		13.5	20.3#
71	27.1		24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

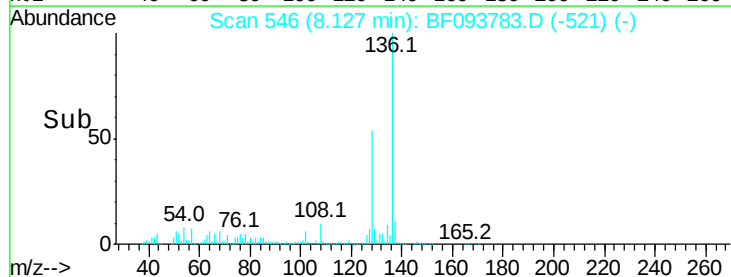
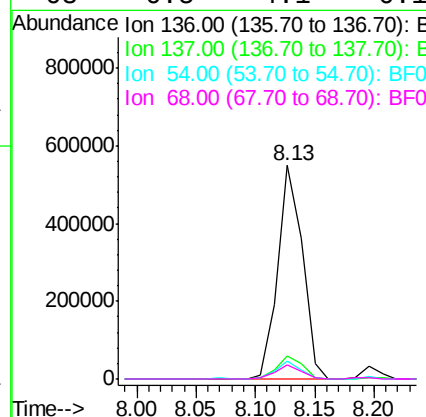
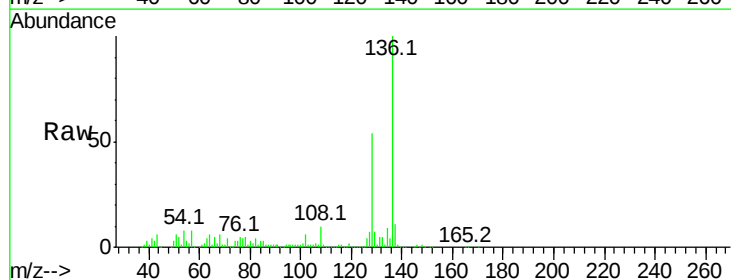
RT: 8.13 min Scan# 546

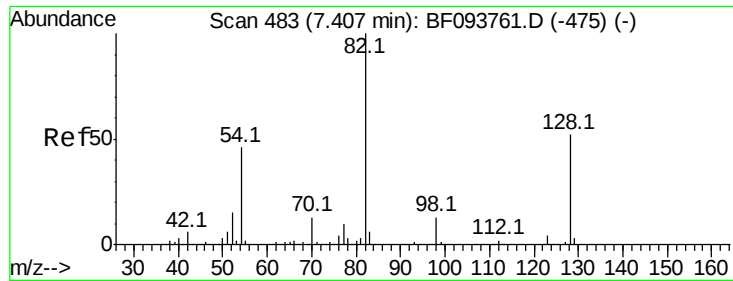
Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	792281		
137	11.0		8.5	12.7
54	8.3		4.9	7.3#
68	6.5		4.1	6.1#





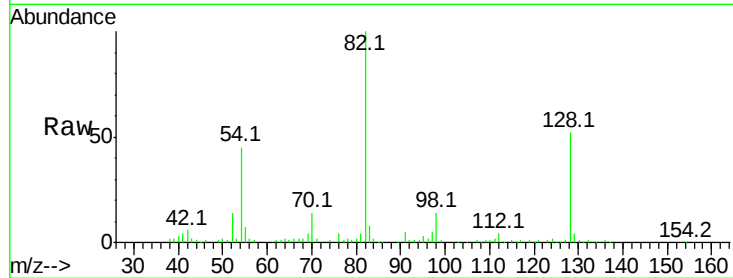
#23
 Nitrobenzene-d5
 Concen: 8.06 ng
 RT: 7.40 min Scan# 482
 Delta R.T. -0.01 min
 Lab File: BF093783.D
 Acq: 21 Mar 2017 00:00

Instrument :
 BNA_F
 ClientSampleId :
 HP-PW-01

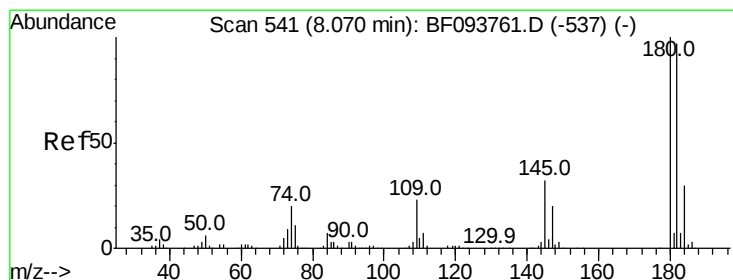
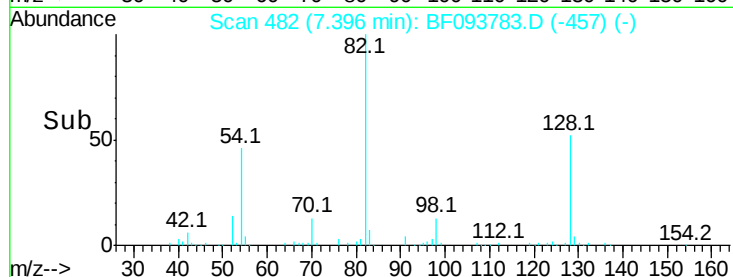
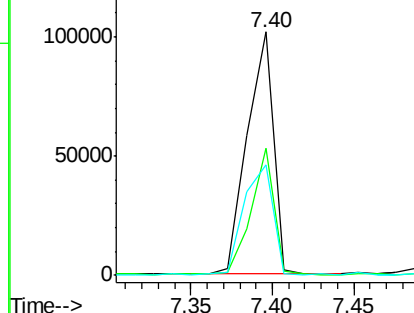
Tot Ion	Ratio	Lower	Upper
82	100		
128	52.2	34.0	51.0#
54	45.3	42.2	63.2

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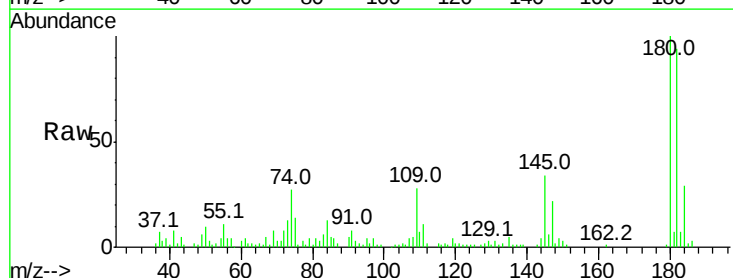


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

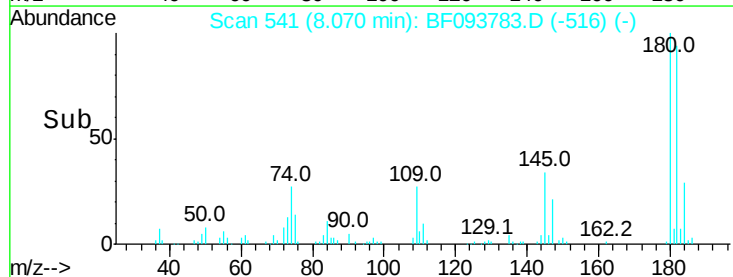
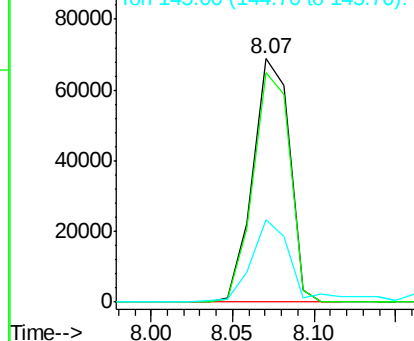


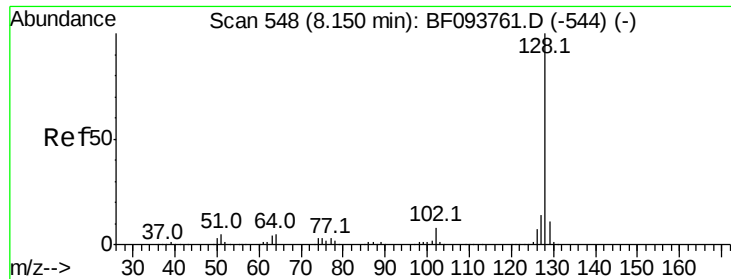
#30
 1,2,4-Trichlorobenzene
 Concen: 9.82 ng
 RT: 8.07 min Scan# 541
 Delta R.T. -0.01 min
 Lab File: BF093783.D
 Acq: 21 Mar 2017 00:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.8	113.6
145	33.6	25.3	37.9



Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E





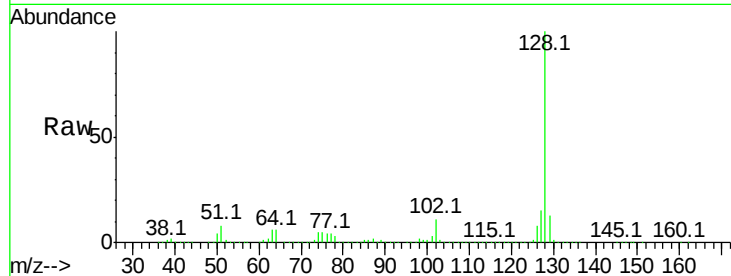
#31
Naphthalene
Concen: 219.70 ng
RT: 8.16 min Scan# 549
Delta R.T. 0.00 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Instrument :
BNA_F
ClientSampleId :
HP-PW-01

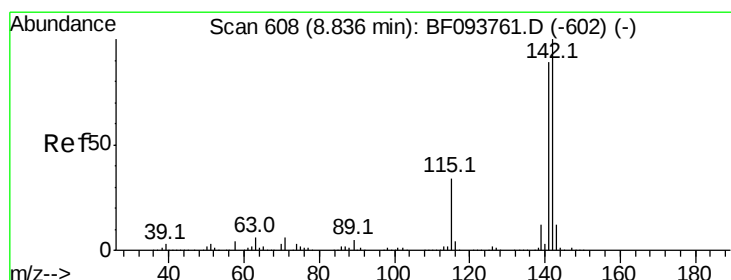
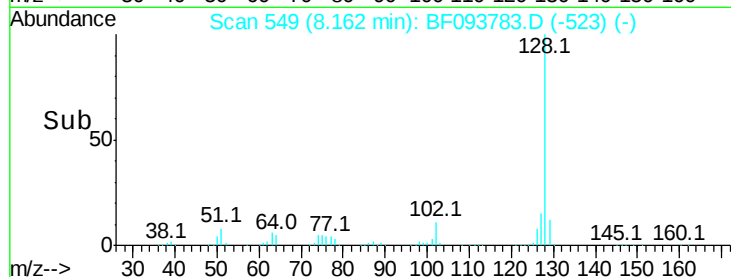
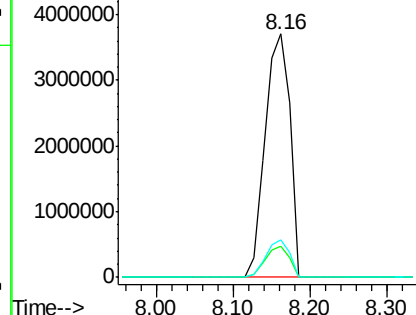
Tot Ion:128 Resp: 8079366
Ion Ratio Lower Upper
128 100
129 12.7 9.0 13.6
127 15.2 10.8 16.2

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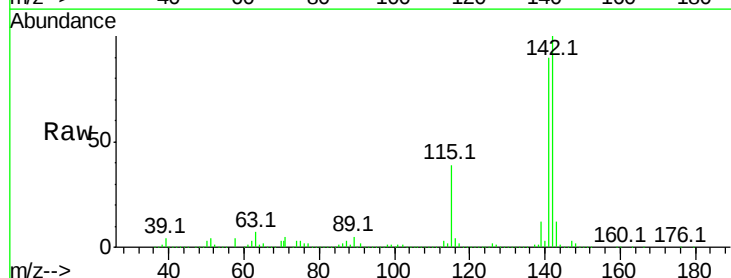


Abundance Ion 128.00 (127.70 to 128.70): E
5000000 Ion 129.00 (128.70 to 129.70): E
4000000 Ion 127.00 (126.70 to 127.70): E
3000000
2000000
1000000
0

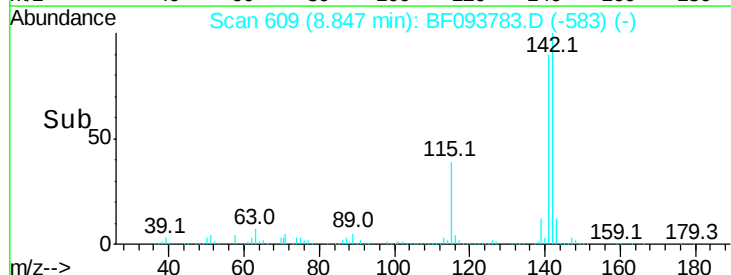
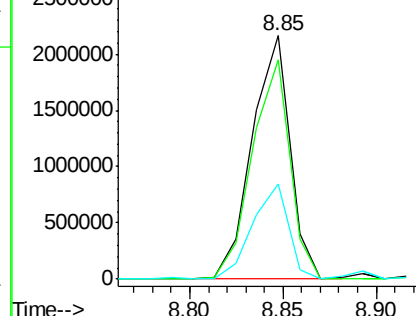


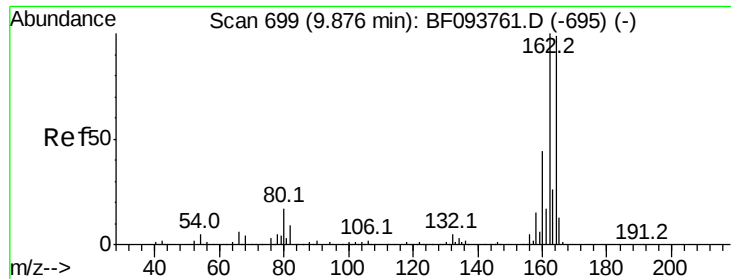
#37
2-Methylnaphthalene
Concen: 127.54 ng
RT: 8.85 min Scan# 609
Delta R.T. 0.00 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Tgt Ion:142 Resp: 3061682
Ion Ratio Lower Upper
142 100
141 90.1 71.3 106.9
115 39.0 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E
3000000 Ion 141.00 (140.70 to 141.70): E
2500000 Ion 115.00 (114.70 to 115.70): E
2000000
1500000
1000000
500000
0





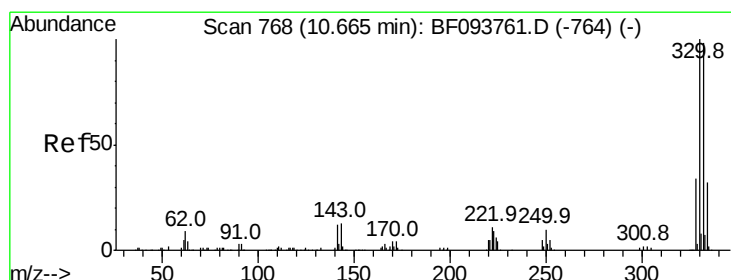
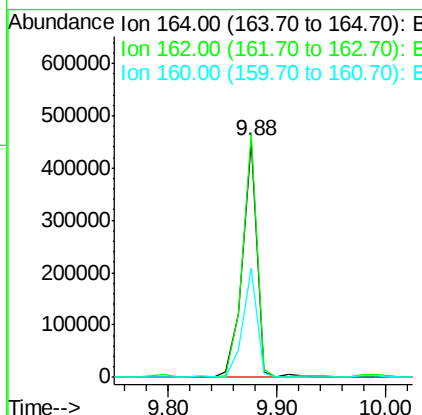
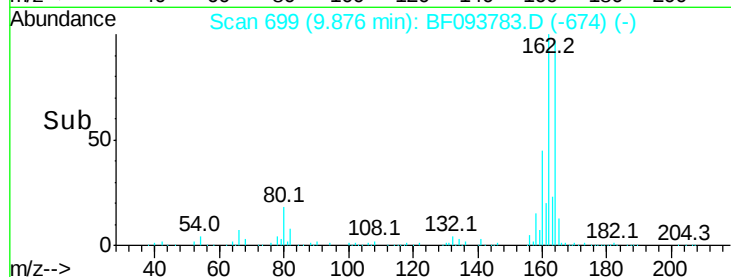
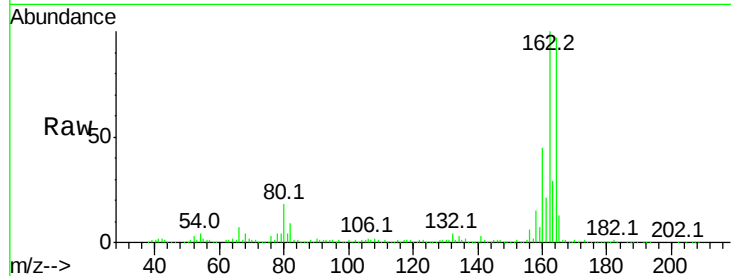
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Instrument :
BNA_F
ClientSampleId :
HP-PW-01

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.0	82.6	123.8
160	46.0	36.2	54.2

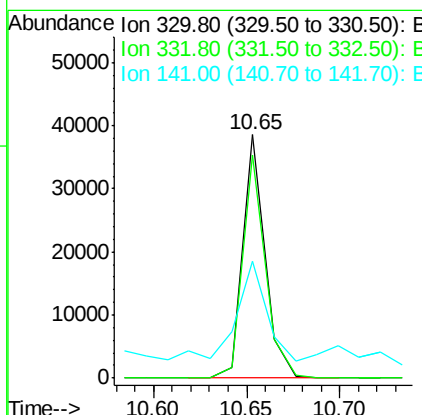
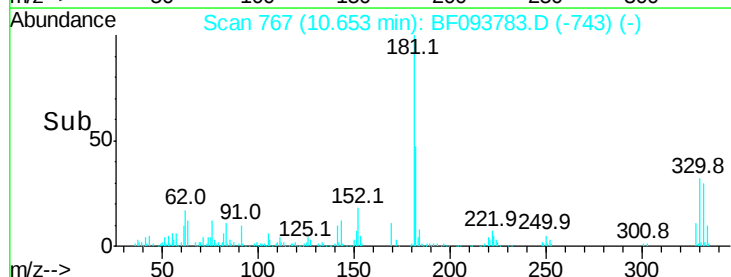
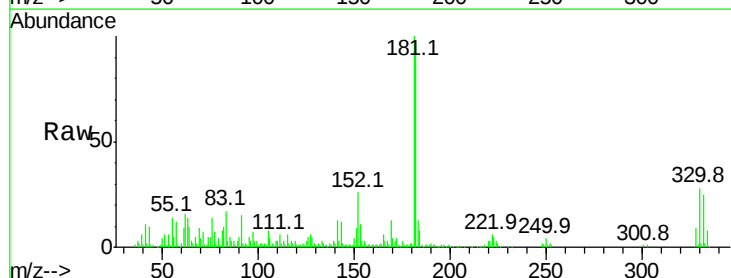
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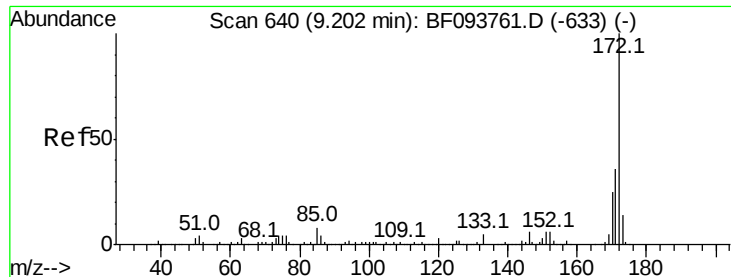
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#41
2,4,6-Tribromophenol
Concen: 10.10 ng
RT: 10.65 min Scan# 767
Delta R.T. -0.02 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.6	76.6	115.0
141	54.9	31.4	47.2





#44

2-Fluorobiphenyl

Concen: 9.64 ng

RT: 9.20 min Scan# 640

Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

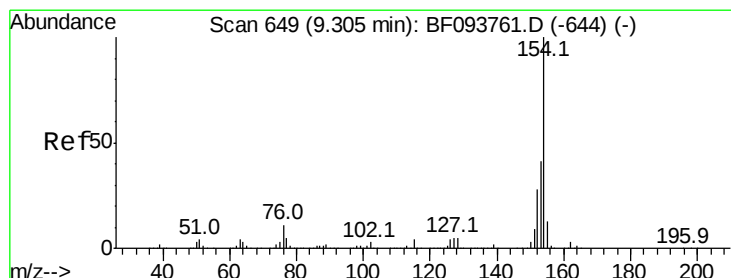
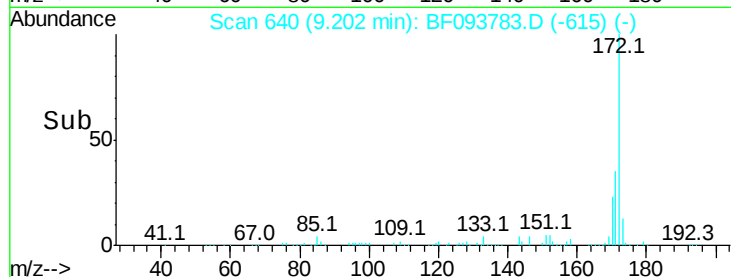
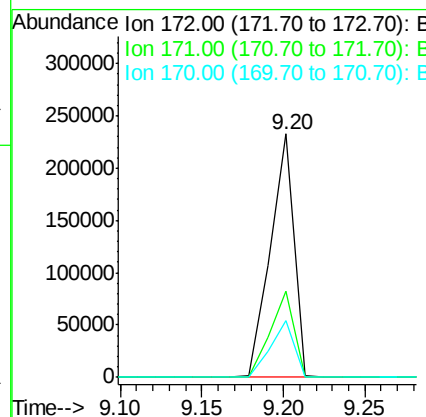
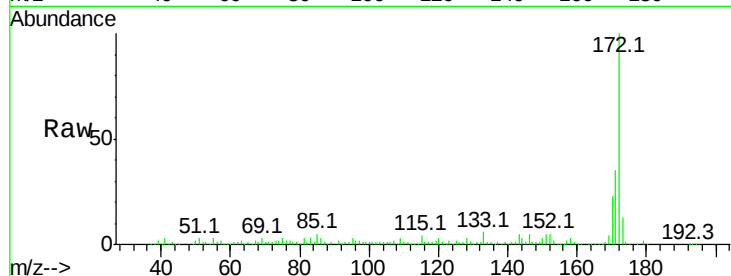
ClientSampleId :

HP-PW-01

Tot Ion:	172	Resp:	235884
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.6	44.4
170	23.2	19.8	29.8

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#45

1,1'-Biphenyl

Concen: 22.72 ng

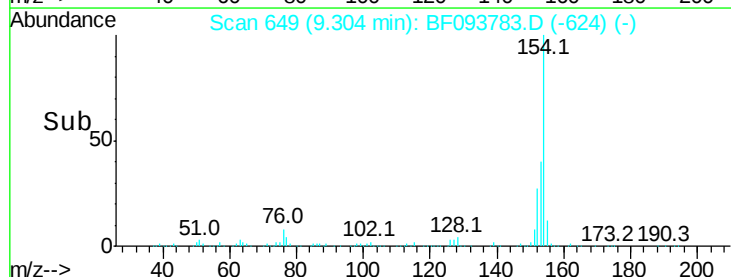
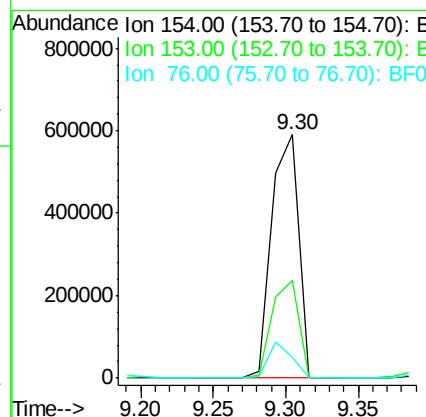
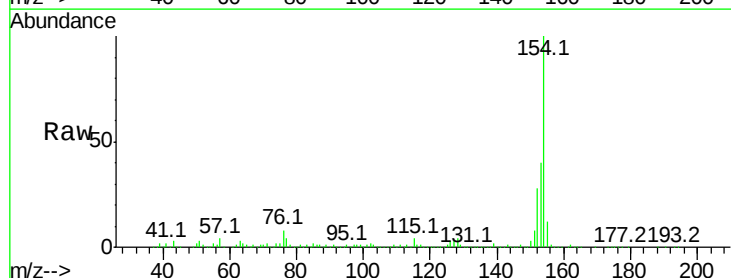
RT: 9.30 min Scan# 649

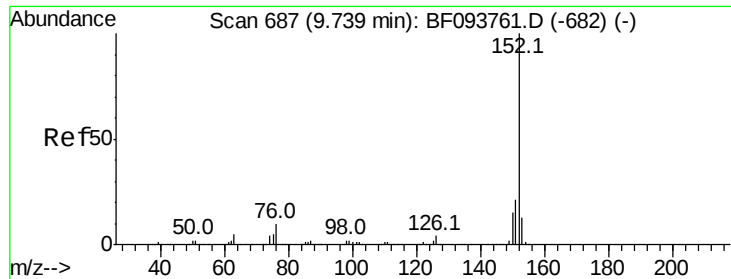
Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Tgt Ion:	154	Resp:	759442
Ion Ratio	Lower	Upper	
154	100		
153	39.9	21.2	61.2
76	8.3	0.0	29.9





#48

Acenaphthylene

Concen: 12.80 ng

RT: 9.74 min Scan# 687

Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

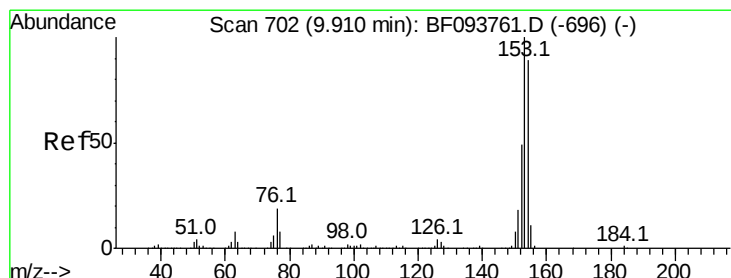
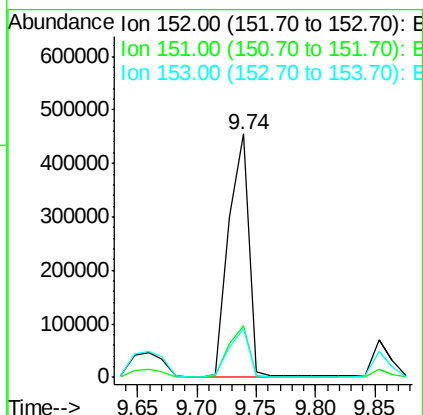
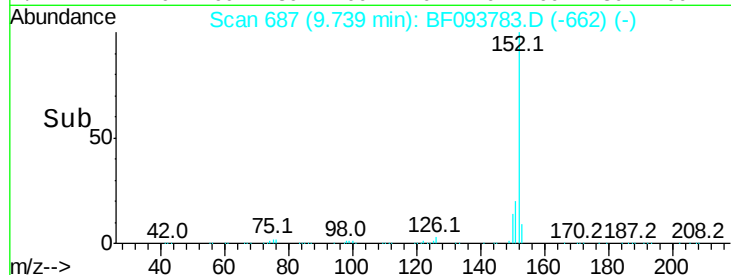
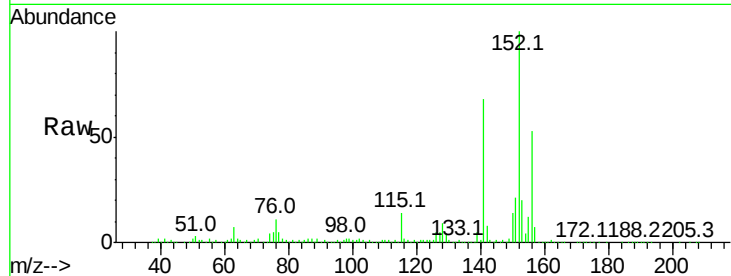
ClientSampleId :

HP-PW-01

Tot Ion	Ratio	Resp	Lower	Upper
152	100	533659		
151	21.1		16.8	25.2
153	20.2		10.8	16.2#

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#51

Acenaphthene

Concen: 10.35 ng

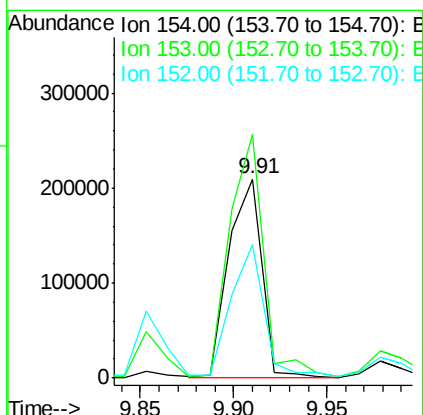
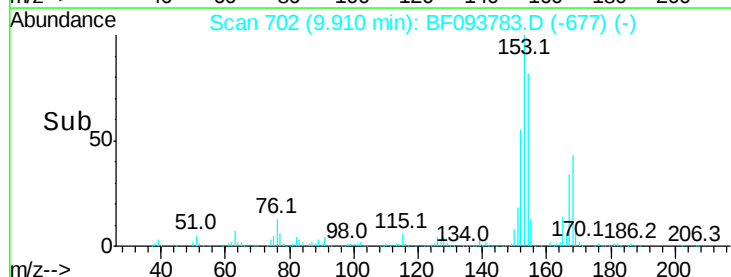
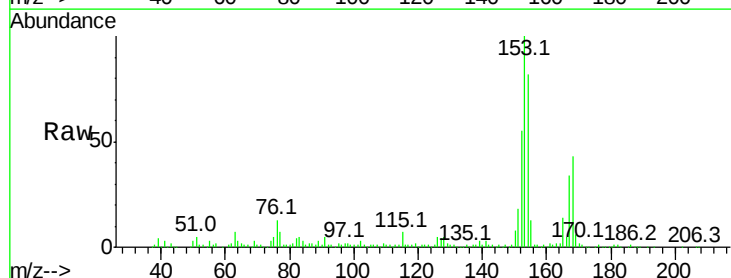
RT: 9.91 min Scan# 702

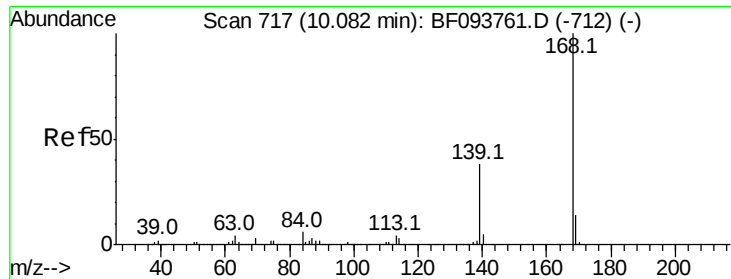
Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	257776		
153	122.3		90.5	135.7
152	66.8		43.6	65.4#





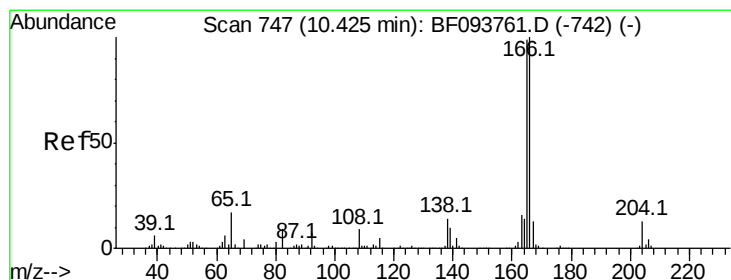
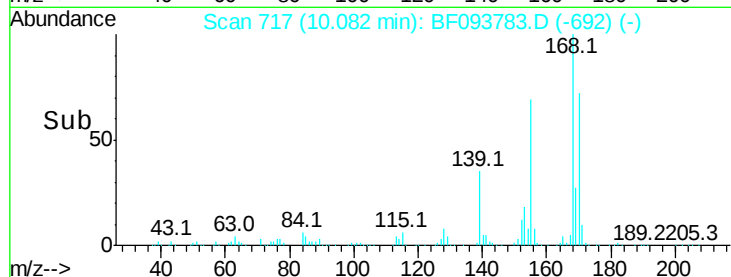
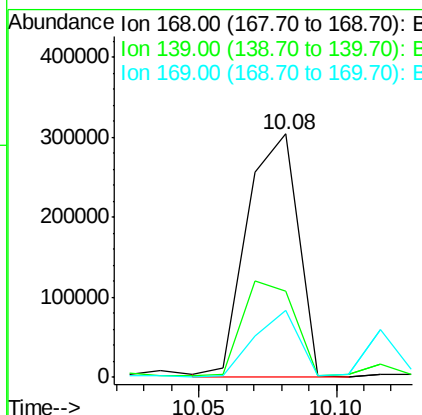
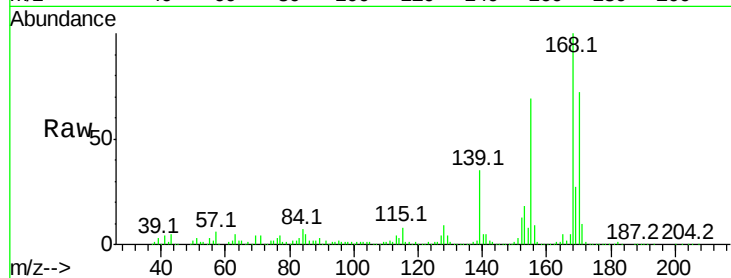
#54
Dibenzenofuran
Concen: 11.82 ng m
RT: 10.08 min Scan# 717
Delta R.T. -0.01 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Instrument :
BNA_F
ClientSampleId :
HP-PW-01

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.4	30.6	45.8
169	27.3	10.8	16.2

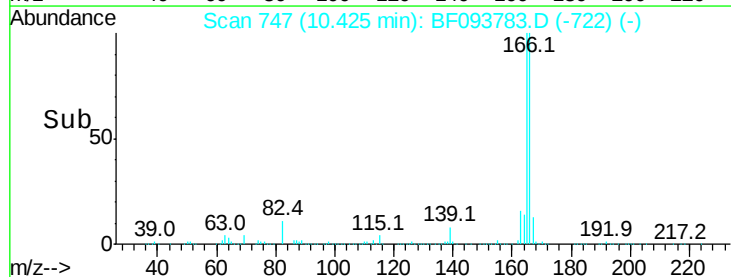
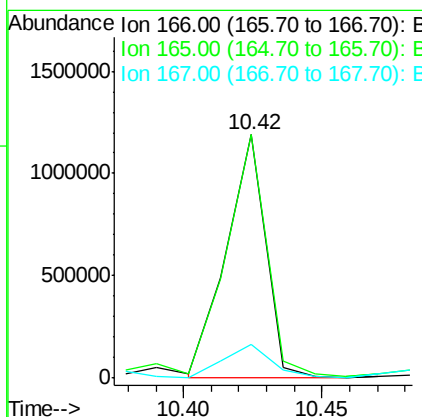
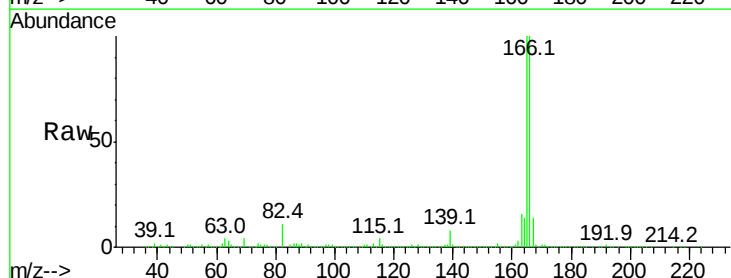
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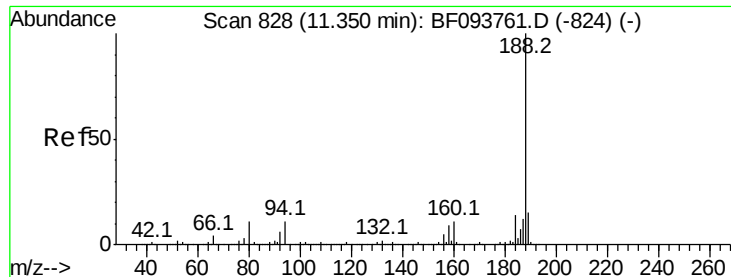
mohammad
3/21/2017 2:45:48 PM



#57
Fluorene
Concen: 46.54 ng m
RT: 10.42 min Scan# 747
Delta R.T. -0.01 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	78.8	118.2
167	13.7	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.35 min Scan# 828

Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

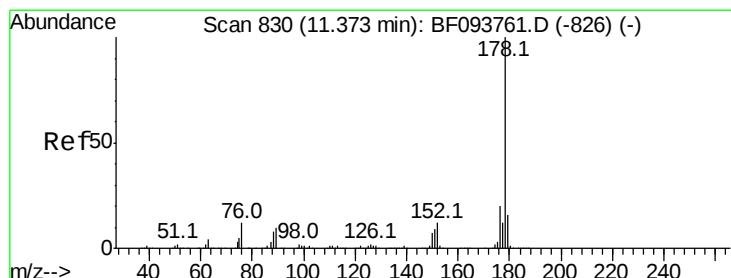
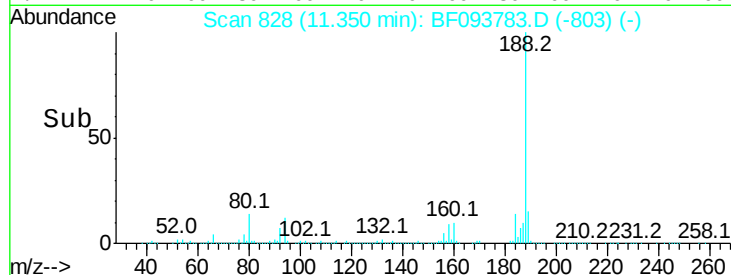
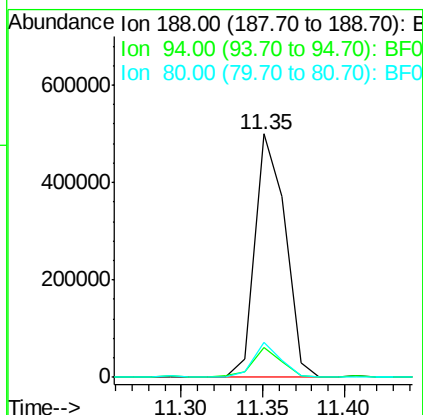
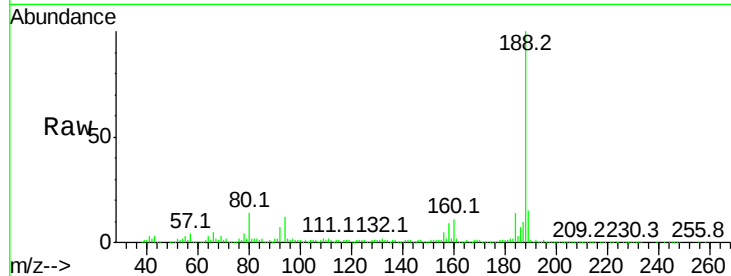
ClientSampleId :

HP-PW-01

Tot Ion:	188	Resp:	644434
Ion Ratio	Lower	Upper	
188	100		
94	12.5	9.4	14.2
80	14.2	10.2	15.2

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#70

Phenanthrene

Concen: 109.29 ng m

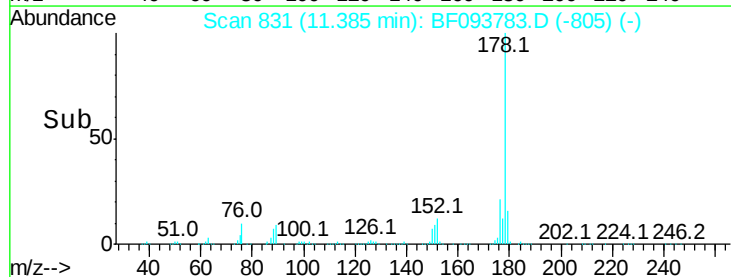
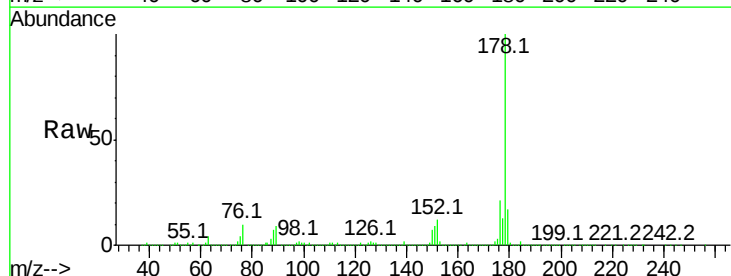
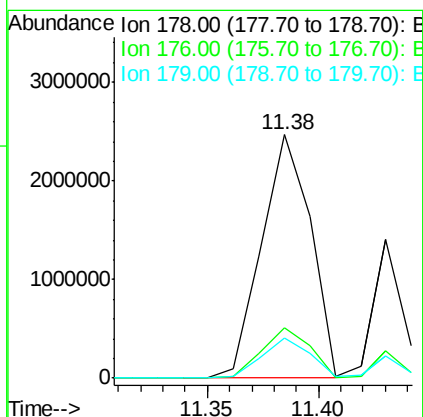
RT: 11.38 min Scan# 831

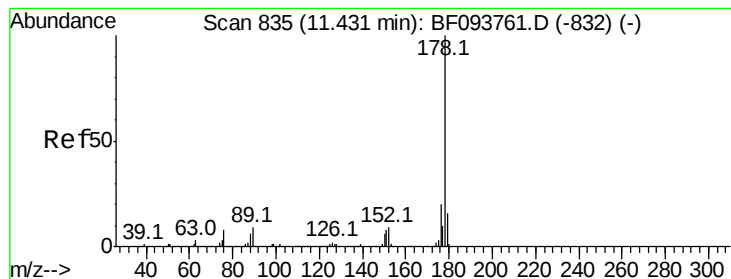
Delta R.T. 0.00 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Tgt Ion:	178	Resp:	3750919
Ion Ratio	Lower	Upper	
178	100		
176	20.8	16.2	24.4
179	16.7	12.6	19.0





#71

Anthracene

Concen: 36.53 ng

RT: 11.43 min Scan# 835

Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

ClientSampleId :

HP-PW-01

Tot Ion:178 Resp: 1290866

Ion Ratio Lower Upper

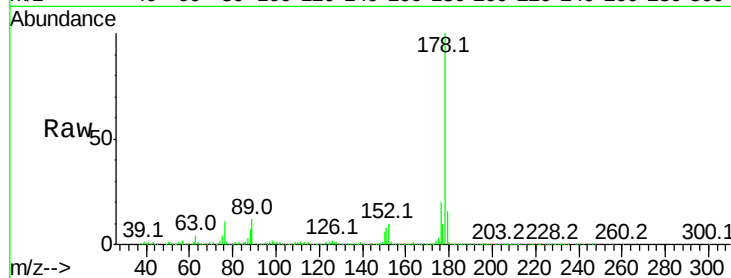
178 100

176 19.5 15.8 23.8

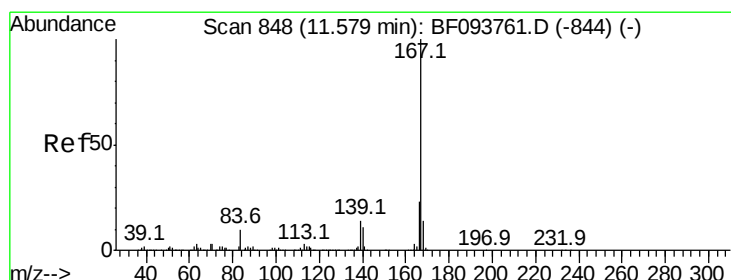
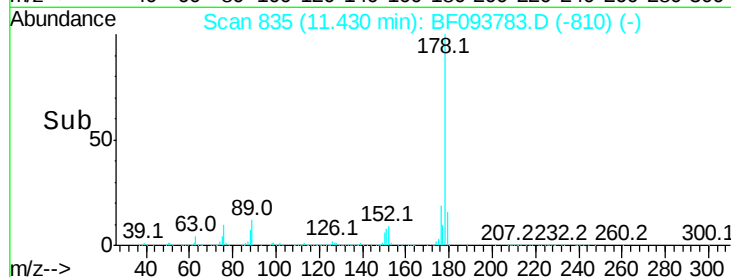
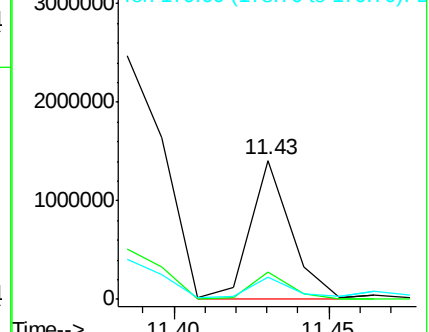
179 16.2 12.7 19.1

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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: 4.17 ng

RT: 11.58 min Scan# 848

Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

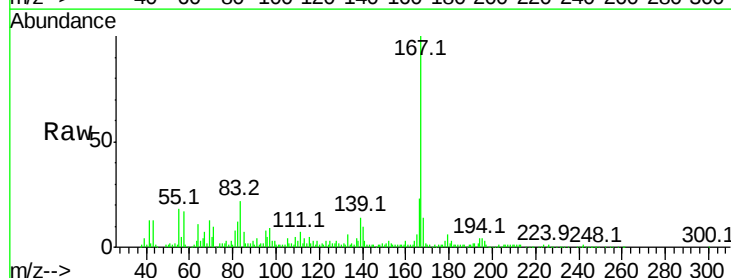
Tgt Ion:167 Resp: 145907

Ion Ratio Lower Upper

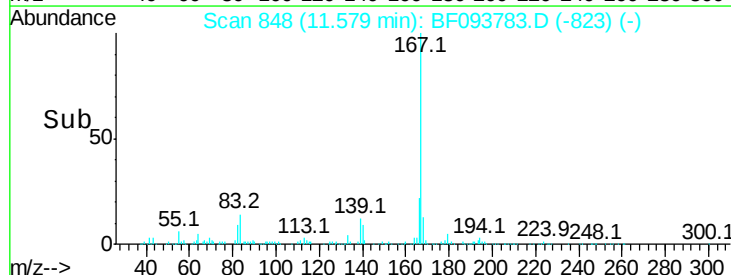
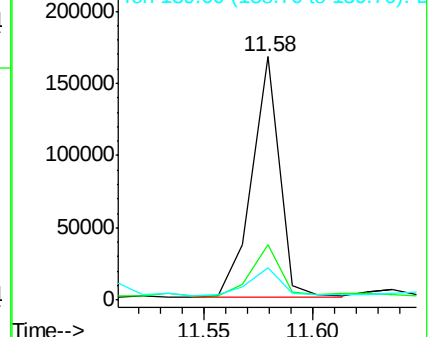
167 100

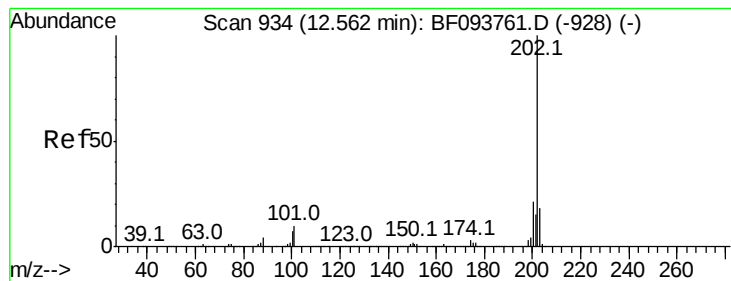
166 22.7 18.1 27.1

139 13.6 11.7 17.5



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: 66.19 ng

RT: 12.58 min Scan# 936

Delta R.T. 0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

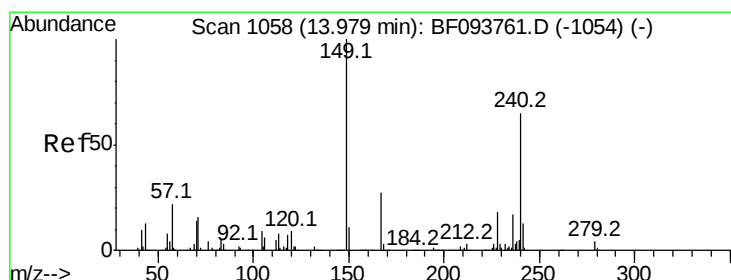
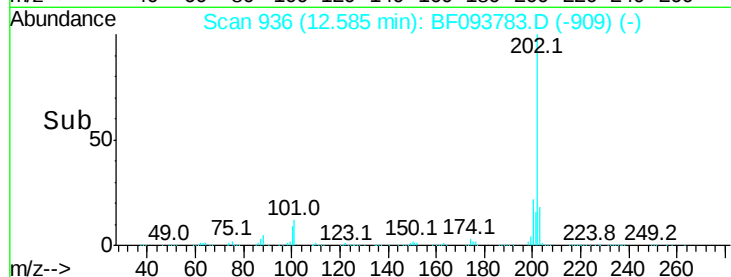
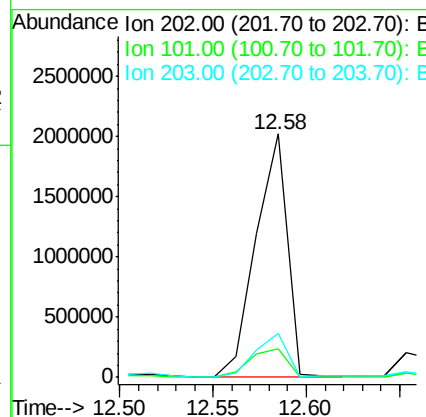
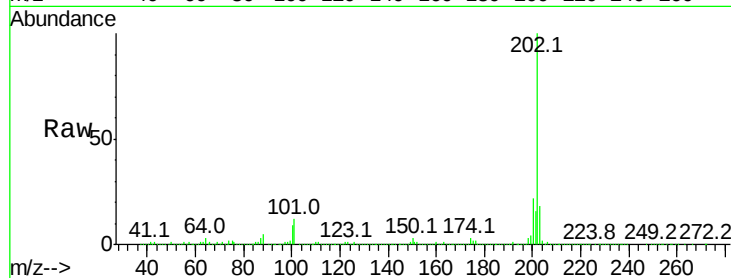
ClientSampled :

HP-PW-01

Tot Ion:	202	Resp:	2335014
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	33.2
203	18.1	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

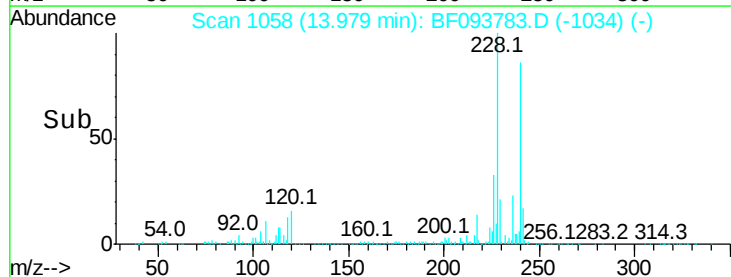
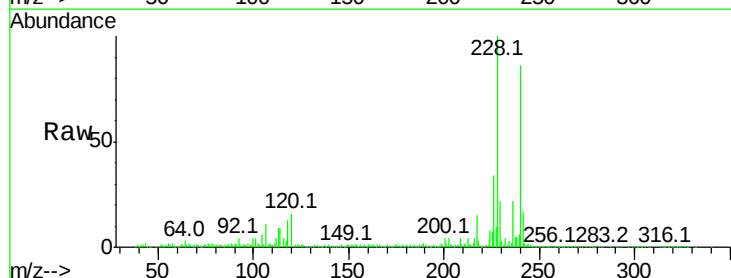
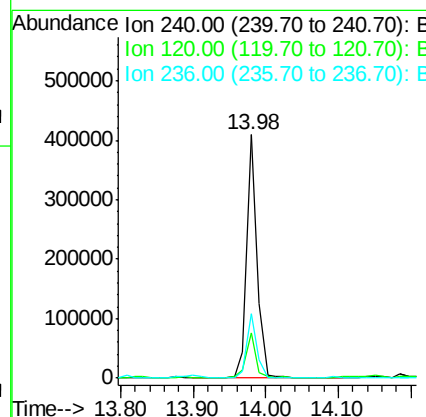
RT: 13.98 min Scan# 1058

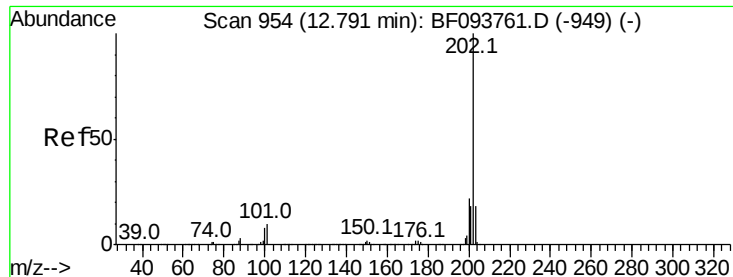
Delta R.T. -0.02 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Tgt Ion:	240	Resp:	403016
Ion	Ratio	Lower	Upper
240	100		
120	18.7	5.8	8.8#
236	26.2	20.5	30.7





#77

Pvrene

Concen: 80.24 ng

RT: 12.80 min Scan# 955

Delta R.T. -0.00 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

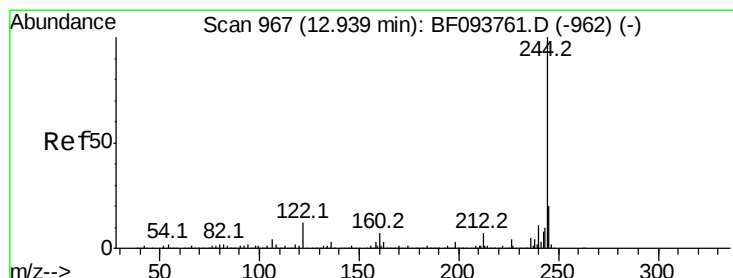
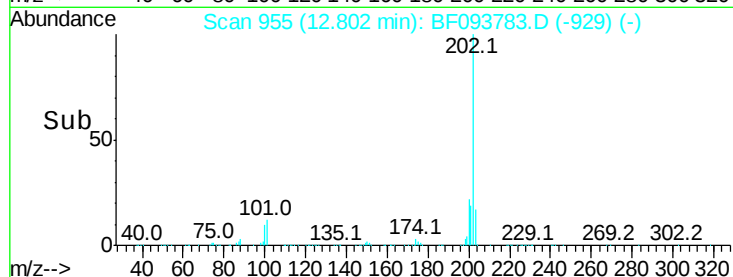
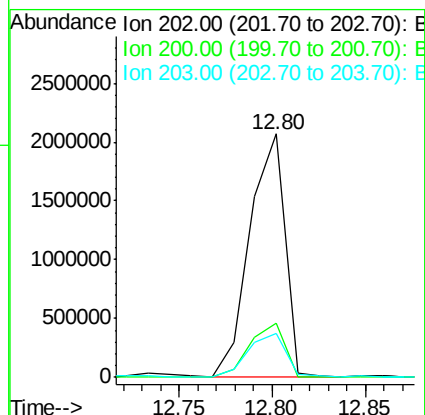
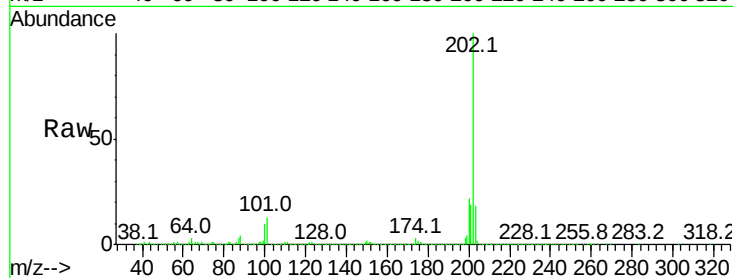
ClientSampleId :

HP-PW-01

Tot Ion:	202	Resp:	2691175
Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.6	26.4
203	18.2	14.4	21.6

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#78

Terphenyl-d14

Concen: 8.14 ng

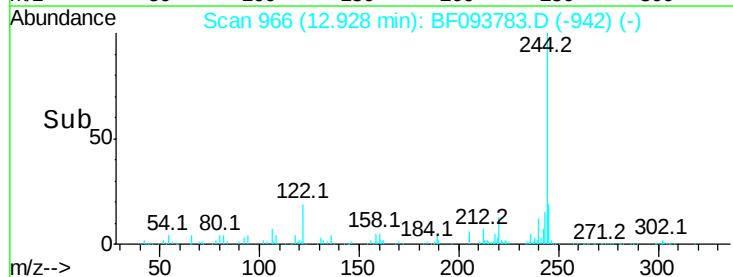
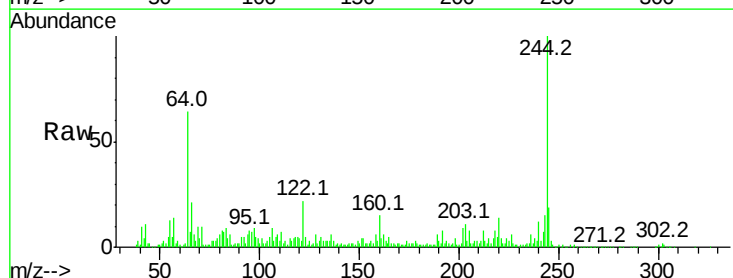
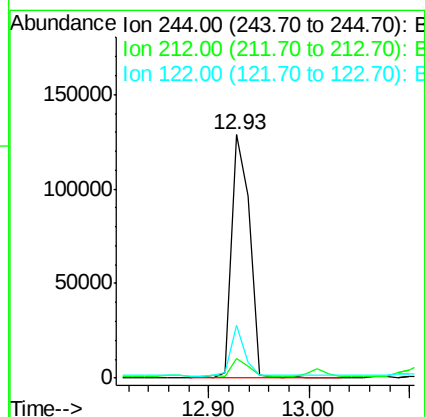
RT: 12.93 min Scan# 966

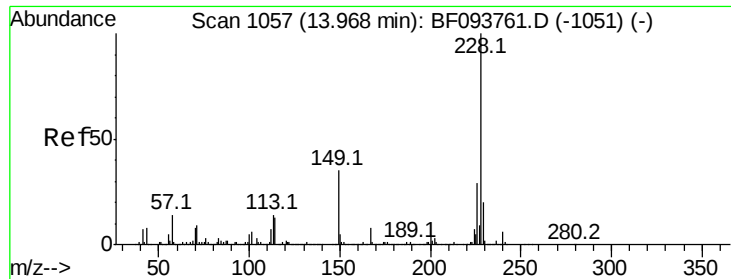
Delta R.T. -0.02 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Tgt Ion:	244	Resp:	160917
Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.0	9.0
122	21.7	10.3	15.5





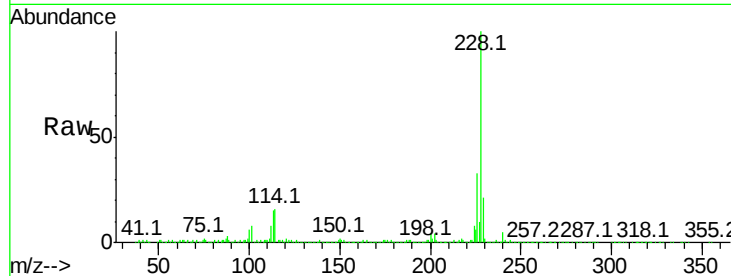
#80
Benzo(a)anthracene
Concen: 43.22 ng
RT: 13.97 min Scan# 1057
Delta R.T. -0.01 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Instrument :
BNA_F
ClientSampled :
HP-PW-01

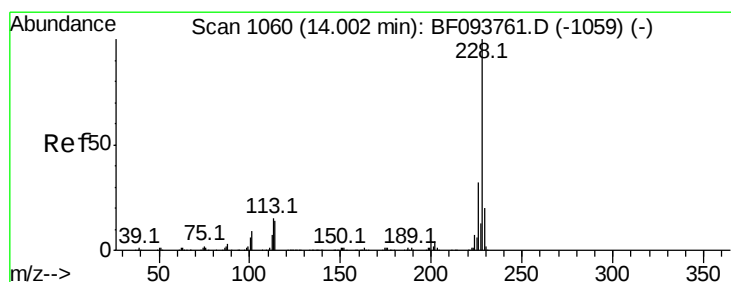
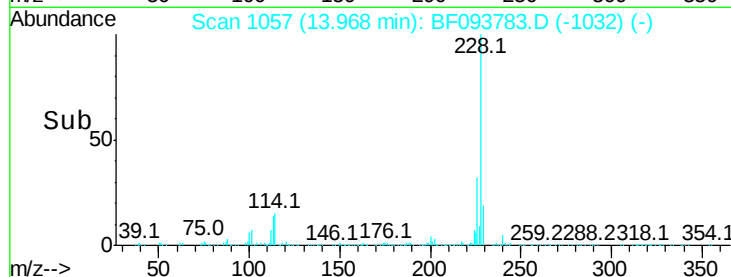
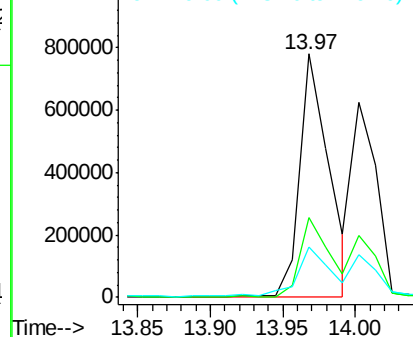
Tot Ion:228 Resp: 1091054
Ion Ratio Lower Upper
228 100
226 32.6 22.6 33.8
229 20.6 16.3 24.5

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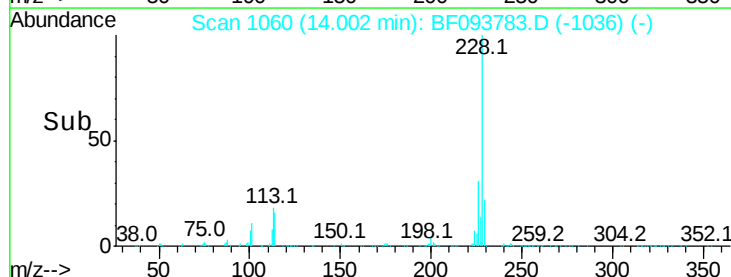
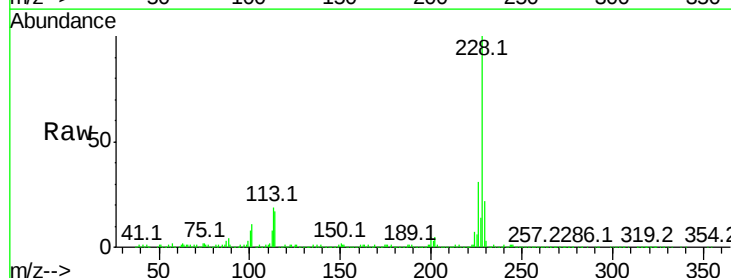
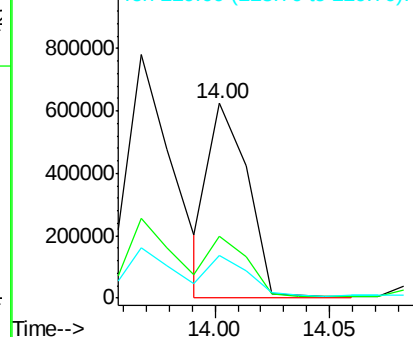
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

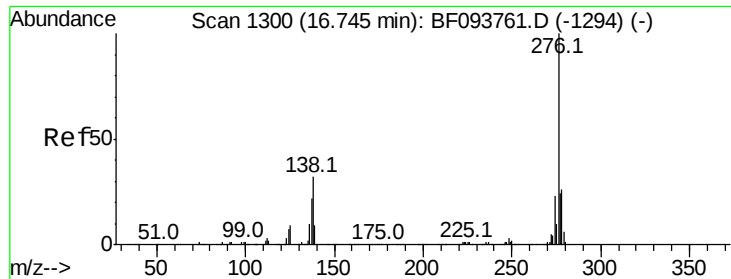


#82
Chrysene
Concen: 29.38 ng m
RT: 14.00 min Scan# 1060
Delta R.T. -0.02 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Tgt Ion:228 Resp: 741061
Ion Ratio Lower Upper
228 100
226 31.5 24.9 37.3
229 22.1 15.8 23.6

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





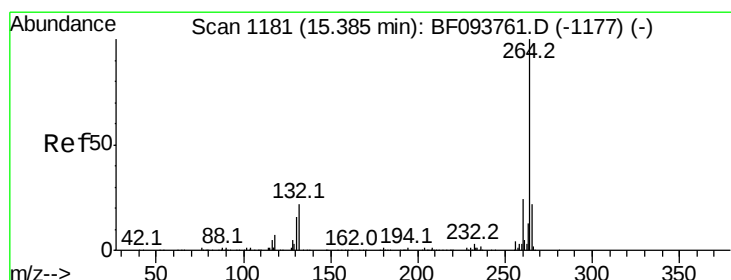
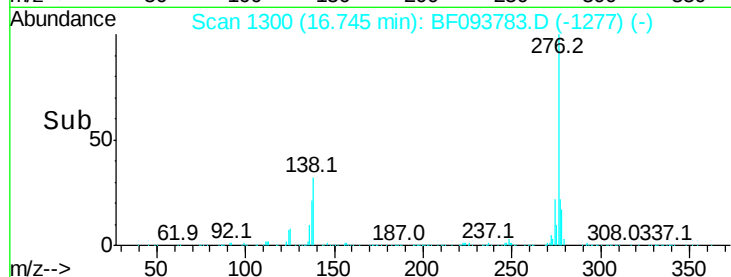
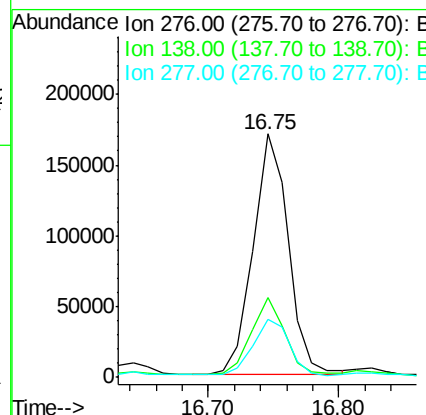
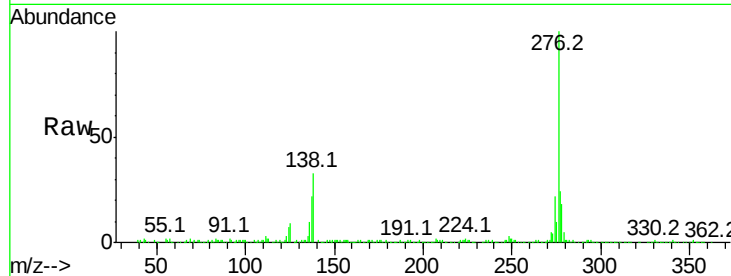
#85
Indeno(1,2,3-cd)pyrene
Concen: 15.50 ng
RT: 16.75 min Scan# 1300
Delta R.T. -0.03 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Instrument :
BNA_F
ClientSampleId :
HP-PW-01

Tot Ion	Ratio	Resp	Lower	Upper
276	100	320116		
138	30.7		27.8	41.6
277	24.2		20.2	30.4

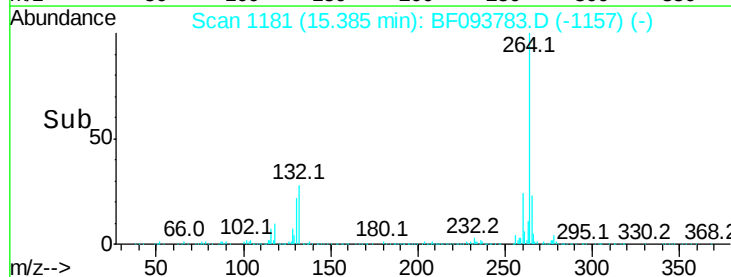
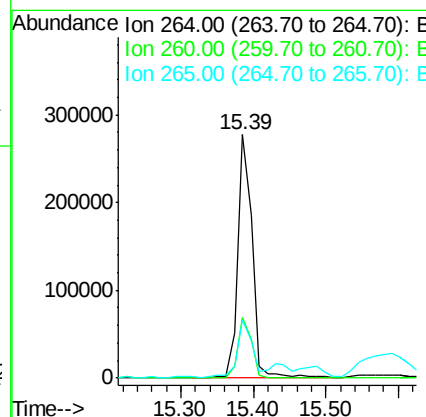
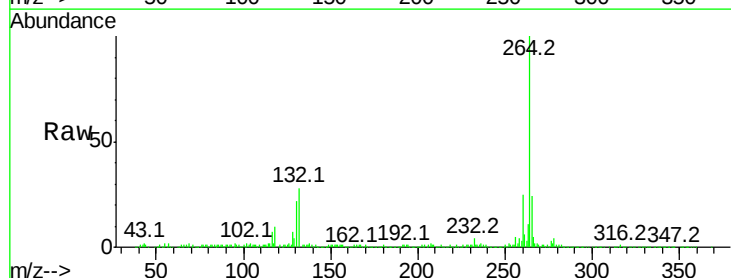
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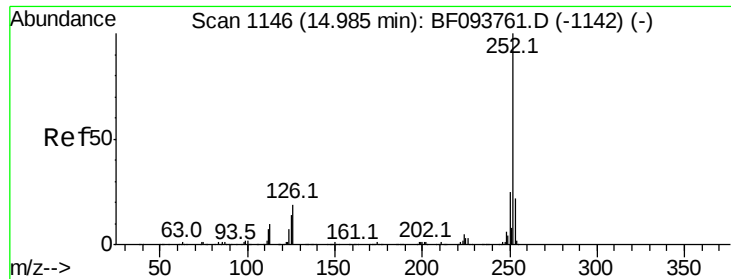
mohammad
3/21/2017 2:45:48 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	379233		
260	24.7		19.5	29.3
265	23.6		17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 35.92 ng m

RT: 15.00 min Scan# 1147

Delta R.T. -0.01 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

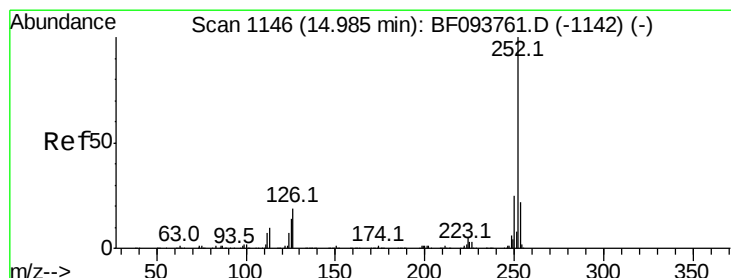
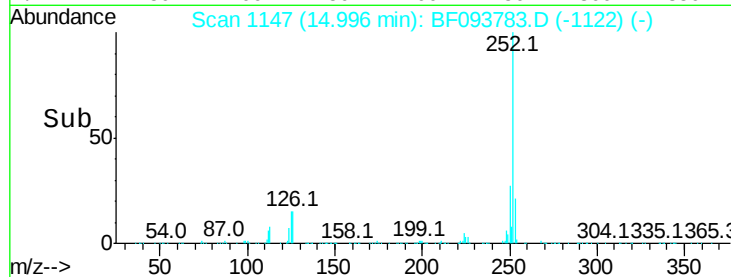
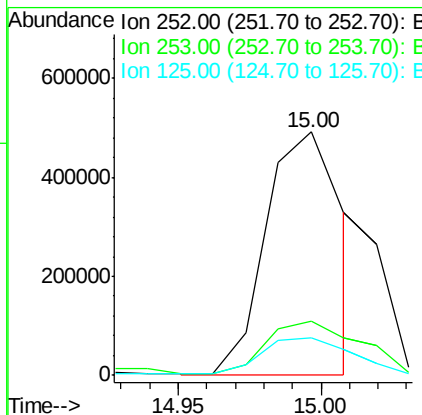
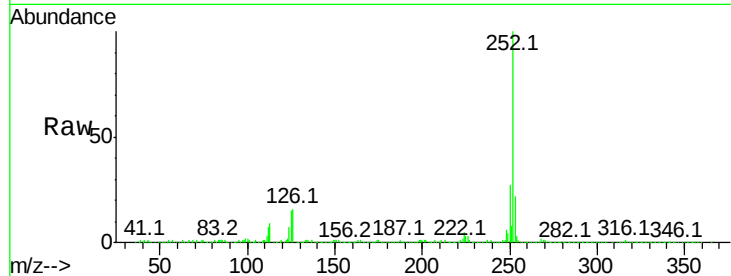
ClientSampleId :

HP-PW-01

Tot Ion	Ratio	Resp	Lower	Upper
252	100	918288		
253	22.3		18.1	27.1
125	15.2		9.8	14.8

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 10.48 ng m

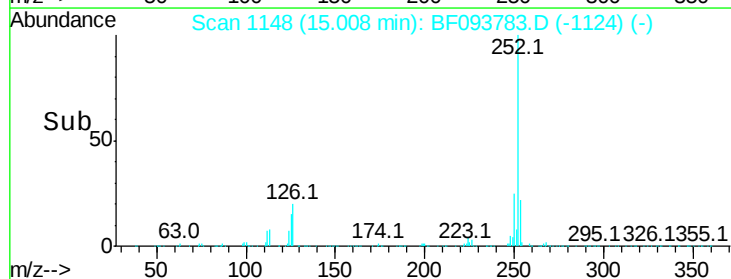
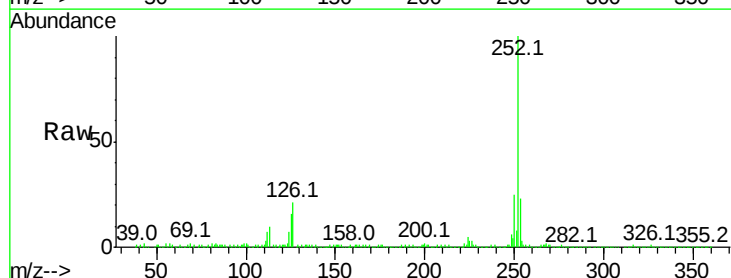
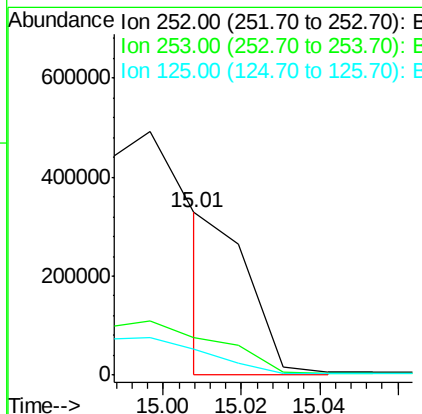
RT: 15.01 min Scan# 1148

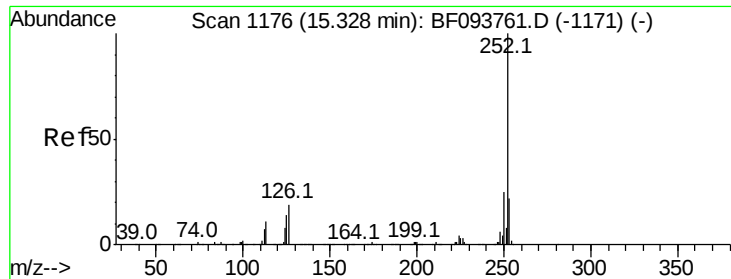
Delta R.T. -0.02 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	197777		
253	22.9		18.4	27.6
125	16.1		13.1	19.7





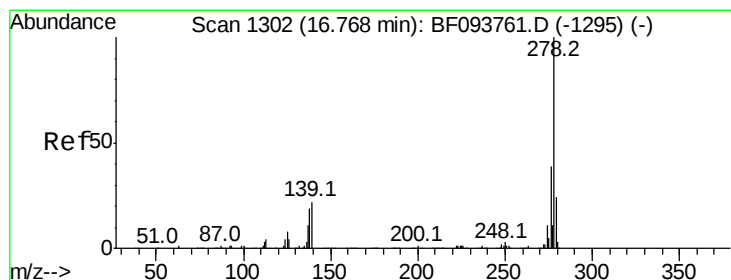
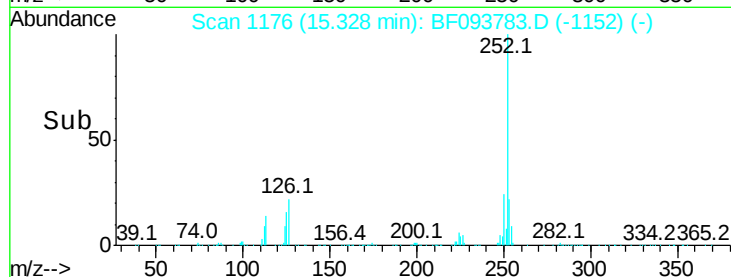
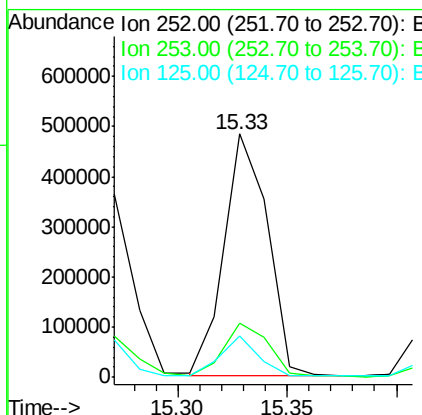
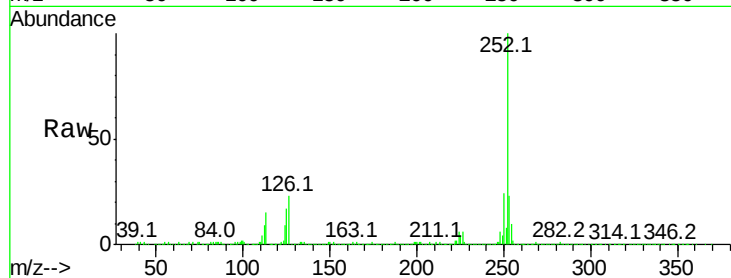
#89
Benzo(a)pyrene
Concen: 32.40 ng m
RT: 15.33 min Scan# 1176
Delta R.T. -0.02 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Instrument :
BNA_F
ClientSampleId :
HP-PW-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	16.8	11.0	16.4

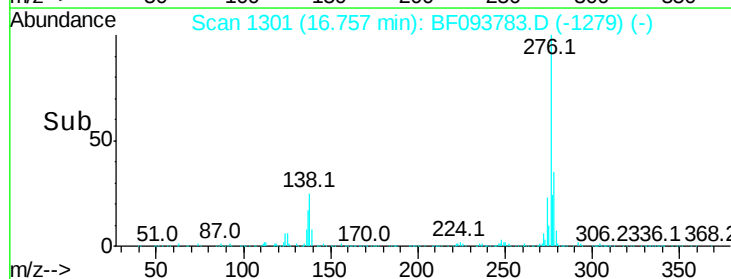
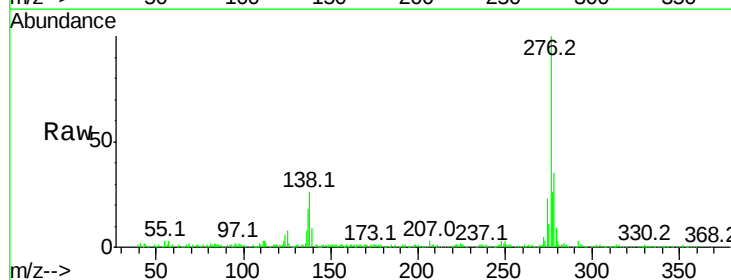
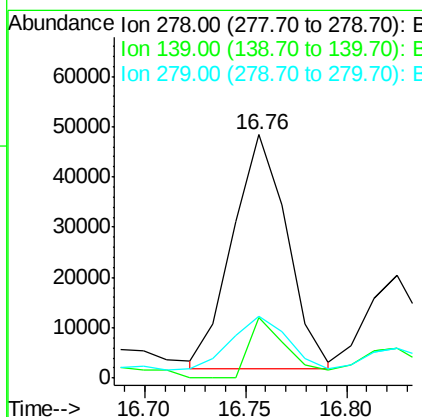
Manual Integrations
APPROVED

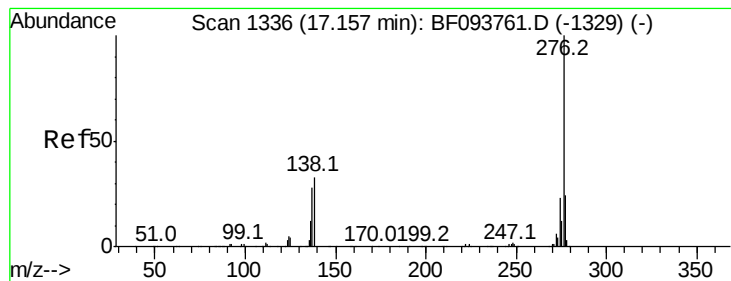
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#90
Dibenzo(a,h)anthracene
Concen: 5.10 ng m
RT: 16.76 min Scan# 1301
Delta R.T. -0.05 min
Lab File: BF093783.D
Acq: 21 Mar 2017 00:00

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.9	16.6	24.8
279	25.5	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 17.67 ng

RT: 17.16 min Scan# 1336

Delta R.T. -0.03 min

Lab File: BF093783.D

Acq: 21 Mar 2017 00:00

Instrument :

BNA_F

ClientSampleId :

HP-PW-01

Tot Ion:	276	Resp:	301866
Ion Ratio	Lower	Upper	
276	100		
277	24.5	18.6	28.0
138	33.0	25.4	38.0

Manual Integrations
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