

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094039.D
 Acq On : 30 Mar 2017 00:46
 Operator : SJ/MA
 Sample : I2443-10
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-ESW

Manual Integrations
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 3/30/2017 2:33:05 PM

Quant Time: Mar 30 04:33:18 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	159235	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	590961	20.00	ng	-0.03
38) Acenaphthene-d10	9.56	164	243196	20.00	ng	-0.04
63) Phenanthrene-d10	11.39	188	359968	20.00	ng	-0.03
75) Chrysene-d12	14.69	240	246253	20.00	ng	0.00
86) Perylene-d12	16.31	264	232227	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.46	112	1311342	139.09	ng	-0.02
7) Phenol-d6	5.53	99	1617978	138.73	ng	-0.02
23) Nitrobenzene-d5	6.57	82	970744	93.74	ng	-0.03
41) 2,4,6-Tribromophenol	10.55	330	270048	140.52	ng	-0.03
44) 2-Fluorobiphenyl	8.75	172	1602991	100.54	ng	-0.03
78) Terphenyl-d14	13.40	244	760515	69.22	ng	0.00

Target Compounds

						Qvalue
20) 3+4-Methylphenols	6.40	107	32653	3.04	ng	# 60
31) Naphthalene	7.46	128	1574099	55.40	ng	100
37) 2-Methylnaphthalene	8.30	142	707227	37.34	ng	98
45) 1,1'-Biphenyl	8.86	154	118683	6.05	ng	97
49) Dimethylphthalate	9.25	163	104079	6.02	ng	98
51) Acenaphthene	9.60	154	126988	8.53	ng	99
54) Dibenzofuran	9.82	168	211910	10.45	ng	99
57) Fluorene	10.24	166	155167	9.23	ng	99
70) Phenanthrene	11.42	178	569074	28.42	ng	99
71) Anthracene	11.48	178	80916m	3.92	ng	
72) Carbazole	11.69	167	57416	2.72	ng	# 94
74) Fluoranthene	12.93	202	296542	14.46	ng	96
77) Pvrene	13.19	202	117420	6.57	ng	97
80) Benzo(a)anthracene	14.67	228	101289	7.05	ng	# 90
82) Chrysene	14.72	228	126866	9.52	ng	# 93
85) Indeno(1,2,3-cd)pyrene	17.67	276	37750	3.27	ng	# 91
87) Benzo(b)fluoranthene	15.90	252	100727m	7.08	ng	
88) Benzo(k)fluoranthene	15.92	252	29178m	2.09	ng	
89) Benzo(a)pvrene	16.24	252	71109	5.42	ng	# 72
91) Benzo(a,h,i)perylene	18.07	276	37261	3.33	ng	# 90

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

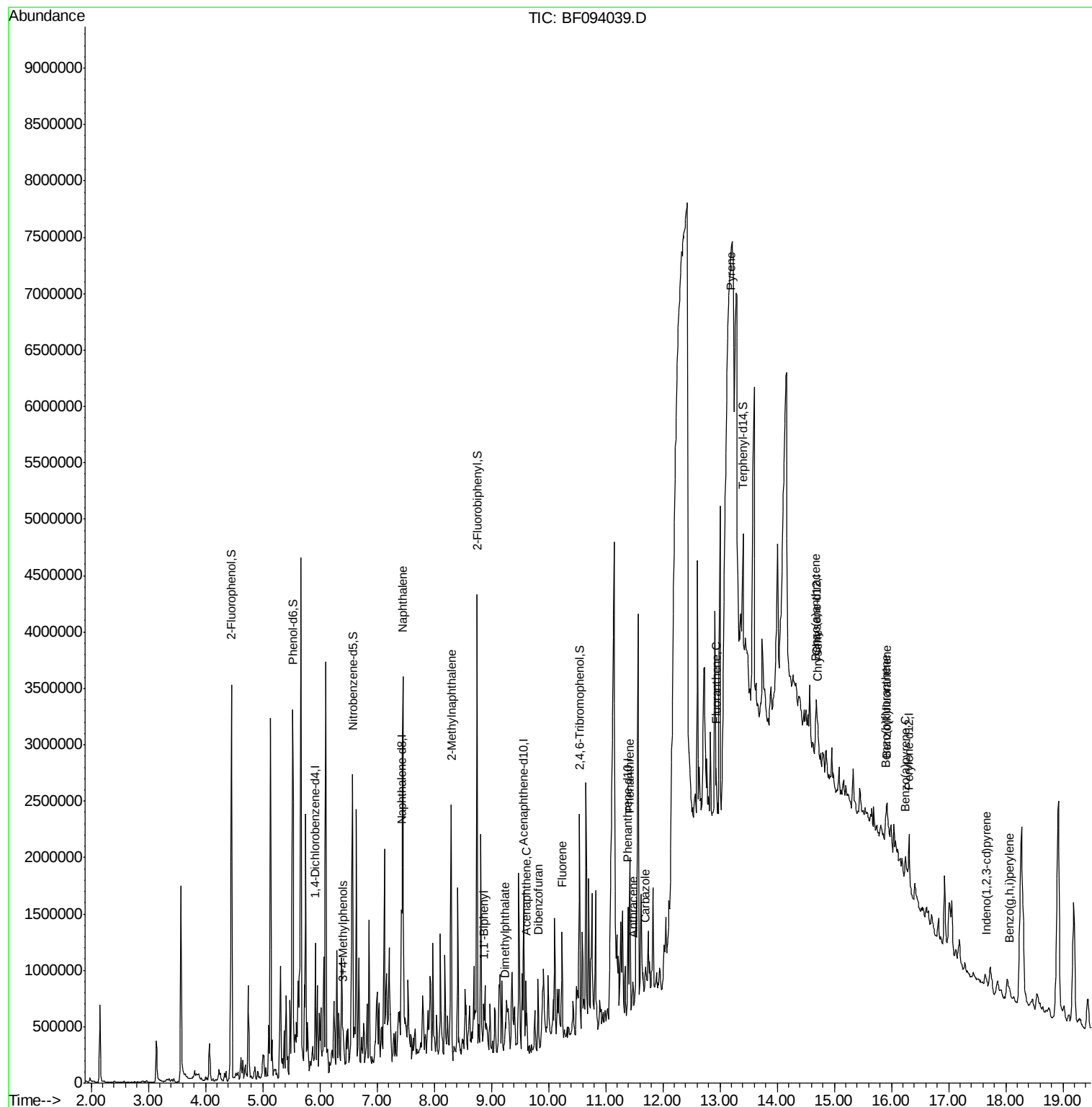
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
Data File : BF094039.D
Acq On : 30 Mar 2017 00:46
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Sample : I2443-10
Misc :
ALS Vial : 23 Sample Multiplier: 1

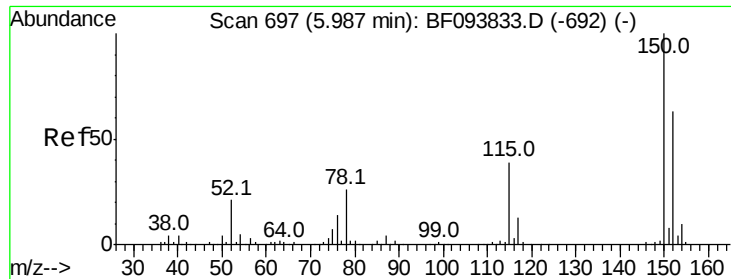
Instrument :
BNA_F
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#1

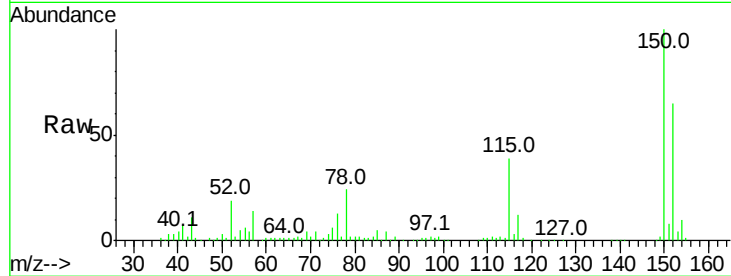
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

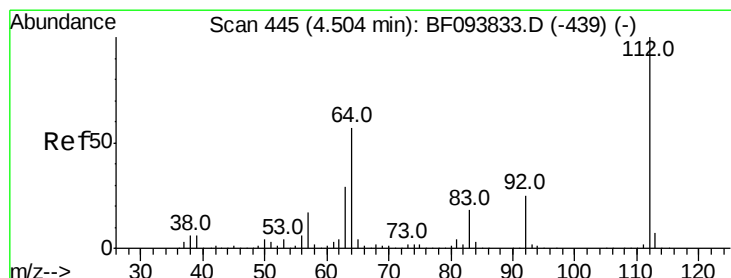
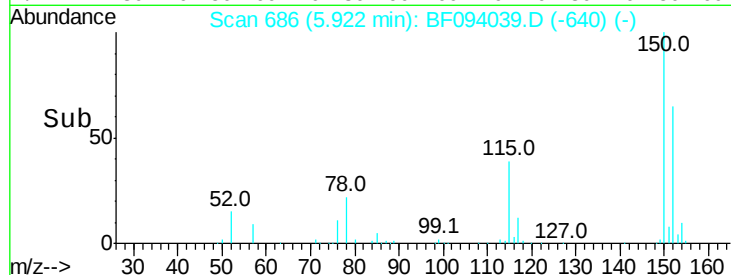
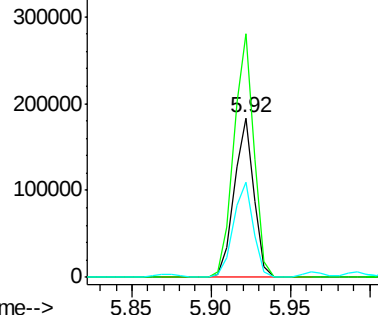
Tot Ion	Ratio	Lower	Upper
152	100		
150	152.7	126.2	189.2
115	59.4	52.2	78.2

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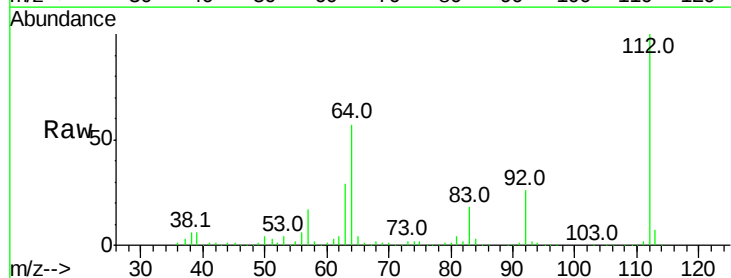
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



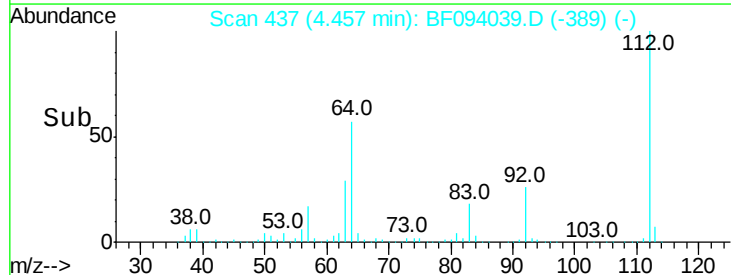
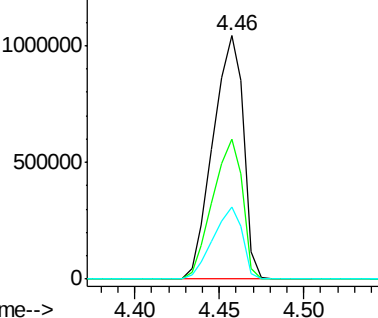
#5

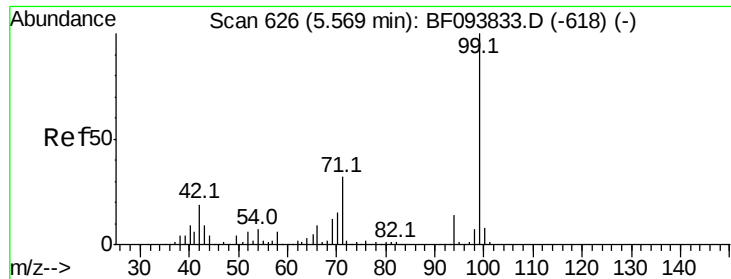
2-Fluorophenol
Concen: 139.09 ng
RT: 4.46 min Scan# 437
Delta R.T. -0.02 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.2	46.0	69.0
63	29.4	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: 138.73 ng

RT: 5.53 min Scan# 619

Delta R.T. -0.02 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Instrument :

BNA_F

ClientSampleId :

E2-AA9-ESW

Tot Ion: 99 Resp: 1617978

Ion Ratio Lower Upper

99 100

42 18.1 13.5 20.3

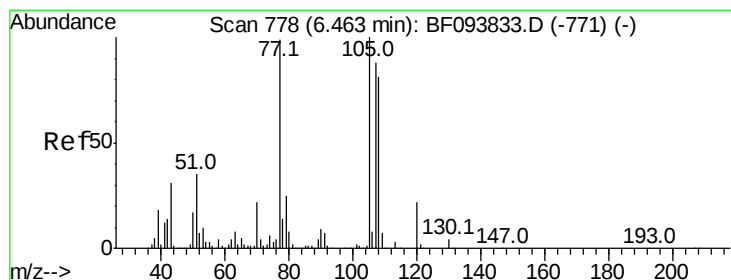
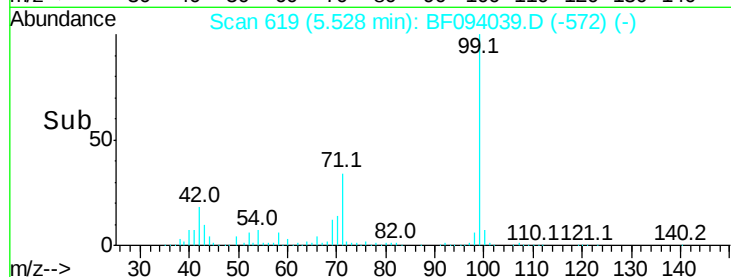
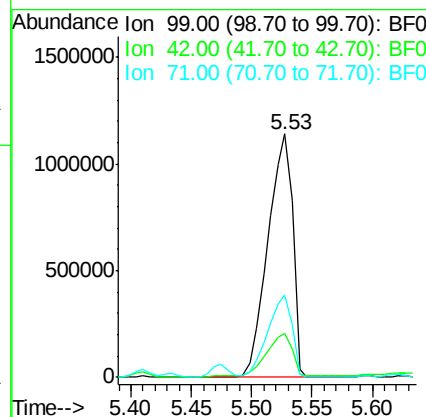
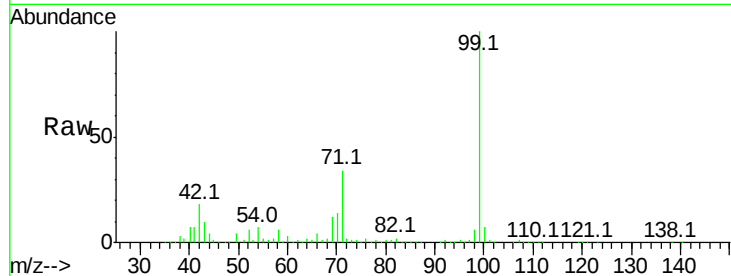
71 33.7 24.5 36.7

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#20

3+4-Methylphenols

Concen: 3.04 ng

RT: 6.40 min Scan# 768

Delta R.T. -0.03 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Tgt Ion: 107 Resp: 32653

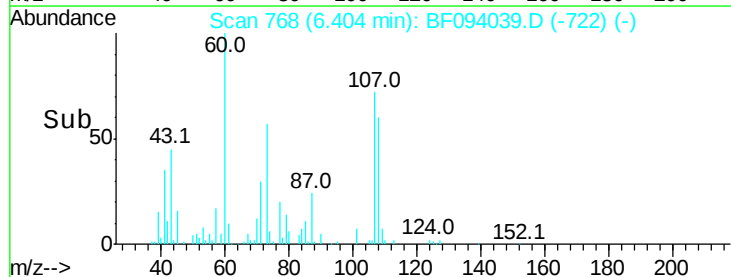
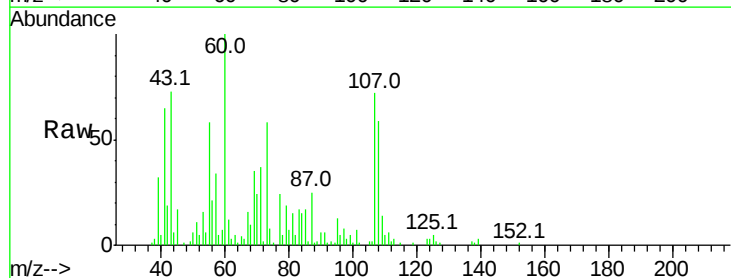
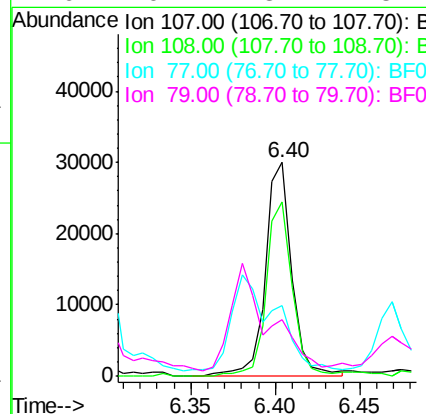
Ion Ratio Lower Upper

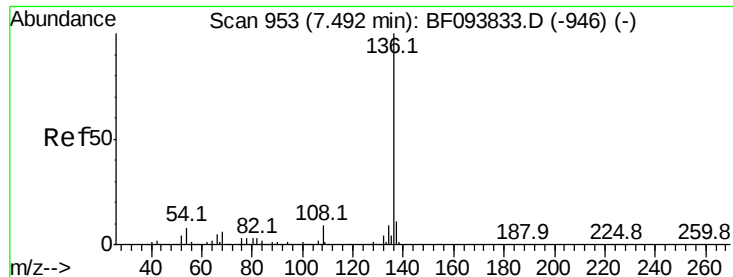
107 100

108 81.2 71.0 111.0

77 32.7 90.5 130.5#

79 26.4 8.4 48.4





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Instrument :

BNA_F

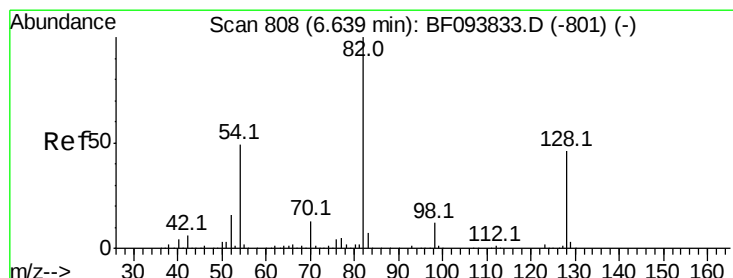
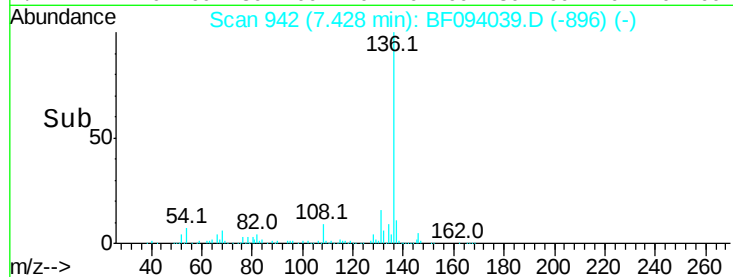
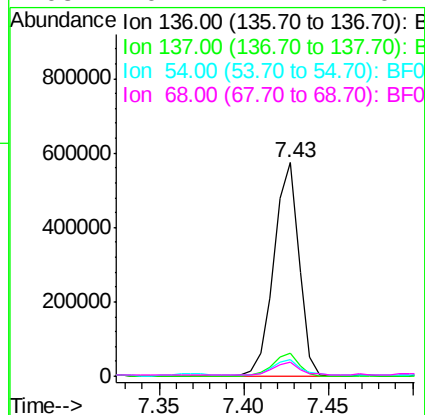
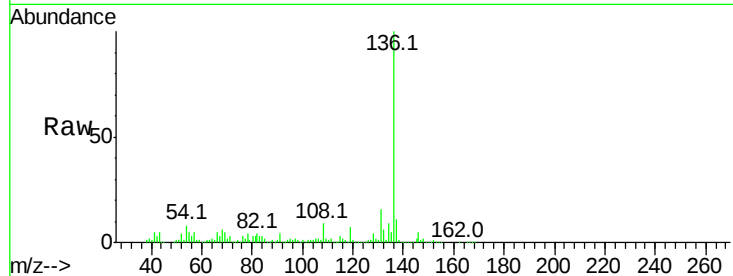
ClientSampleId :

E2-AA9-ESW

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.9	8.5	12.7
54	7.6	4.9	7.3#
68	6.4	4.1	6.1#

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#23

Nitrobenzene-d5

Concen: 93.74 ng

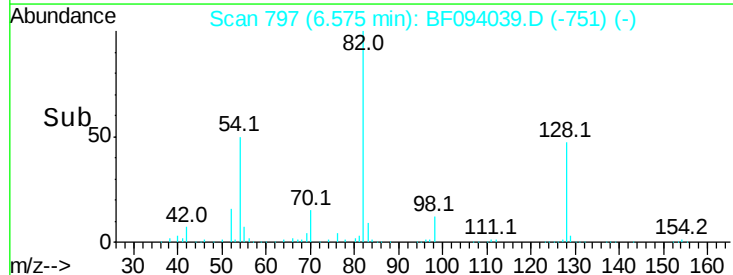
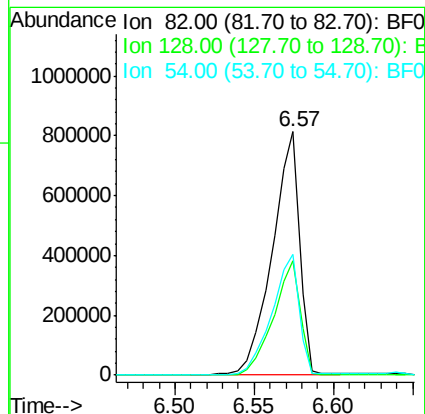
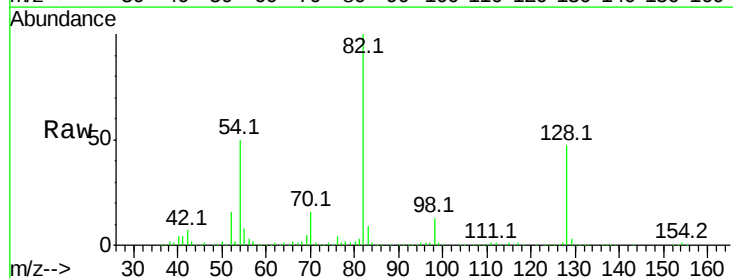
RT: 6.57 min Scan# 797

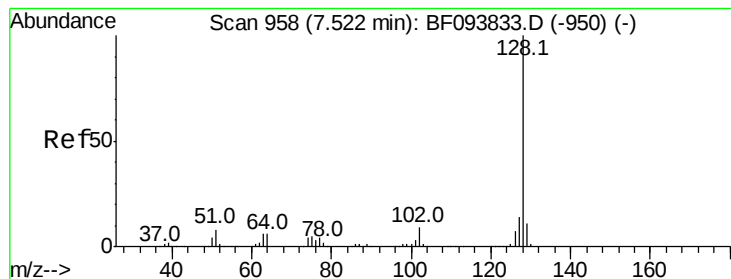
Delta R.T. -0.03 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	46.9	34.0	51.0
54	49.7	42.2	63.2





#31

Naphthalene

Concen: 55.40 ng

RT: 7.46 min Scan# 947

Delta R.T. -0.03 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Instrument :

BNA_F

ClientSampleId :

E2-AA9-ESW

Tot Ion:128 Resp: 1574099

Ion Ratio Lower Upper

128 100

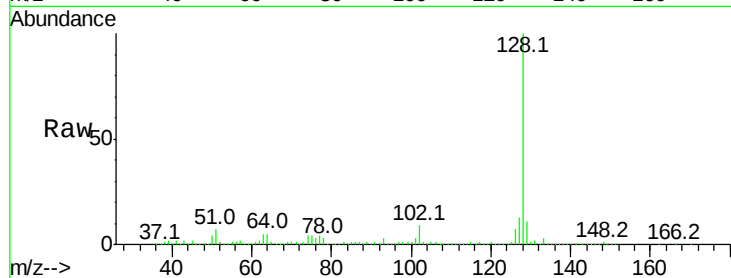
129 11.0 9.0 13.6

127 13.4 10.8 16.2

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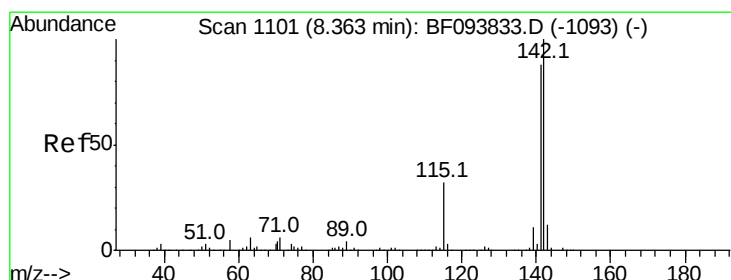
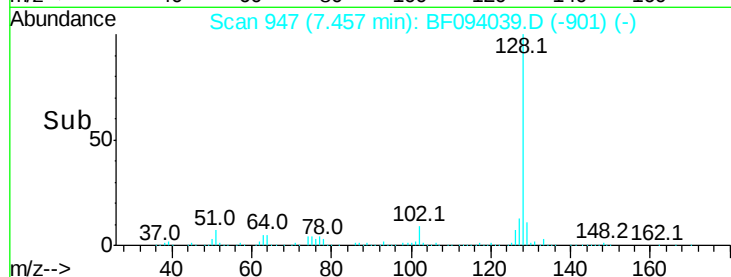
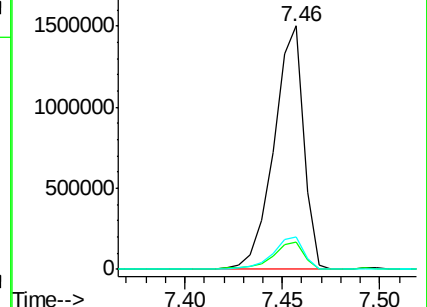
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 37.34 ng

RT: 8.30 min Scan# 1090

Delta R.T. -0.03 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

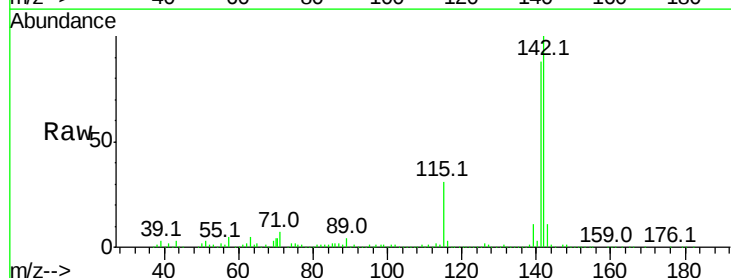
Tgt Ion:142 Resp: 707227

Ion Ratio Lower Upper

142 100

141 88.0 71.3 106.9

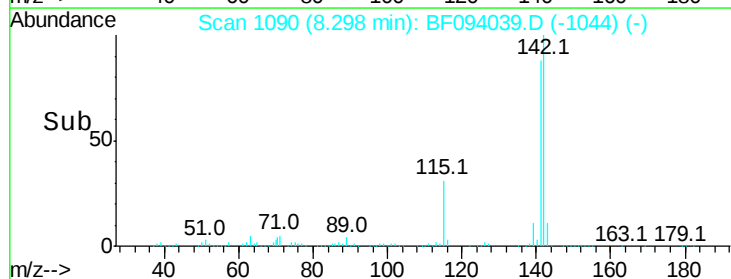
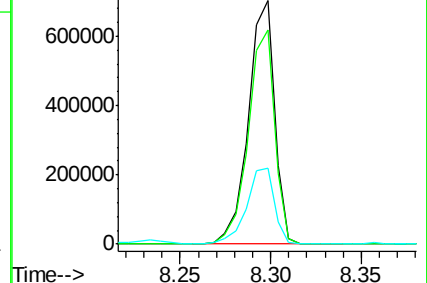
115 31.1 27.1 40.7

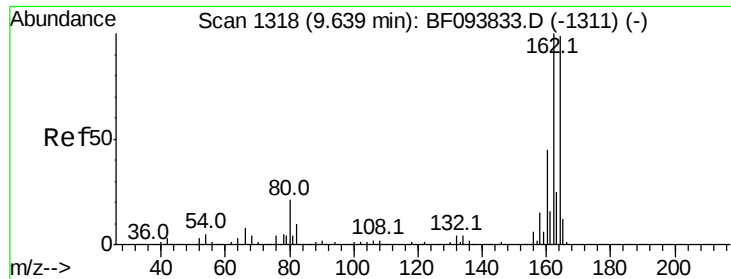


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





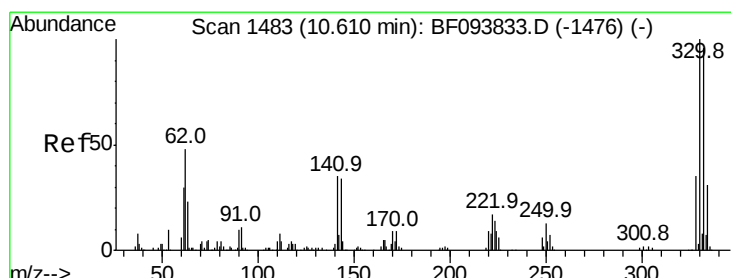
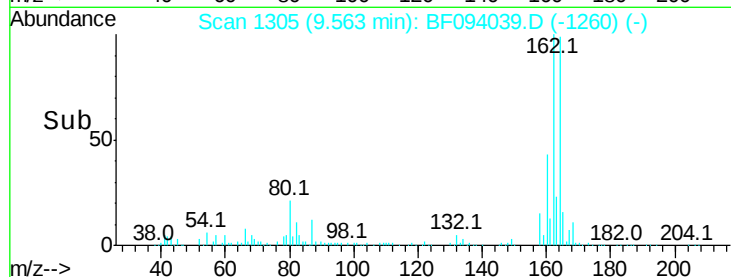
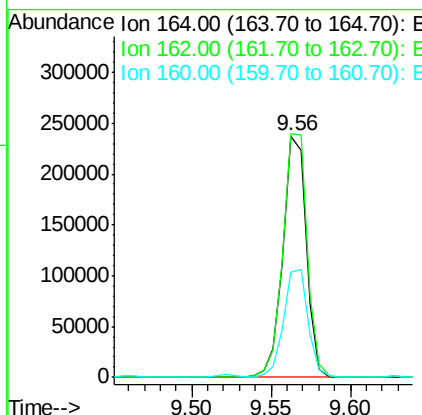
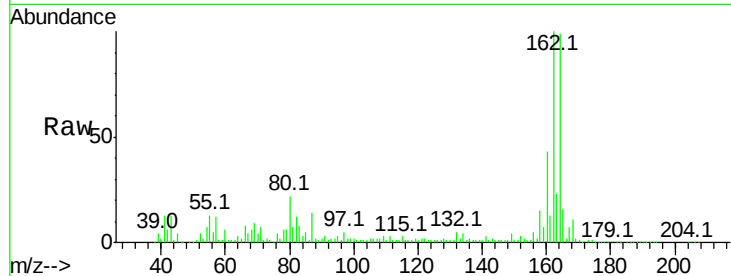
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.56 min Scan# 1305
 Delta R.T. -0.04 min
 Lab File: BF094039.D
 Acq: 30 Mar 2017 00:46

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.9	82.6	123.8
160	43.8	36.2	54.2

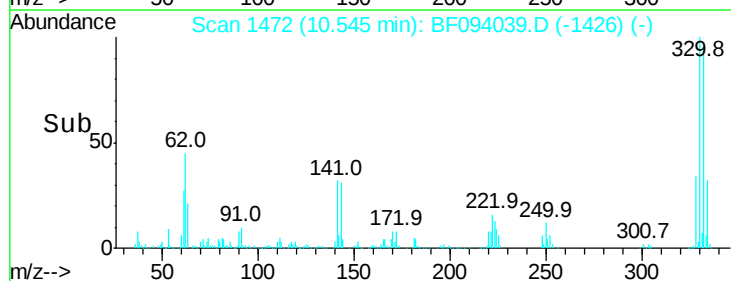
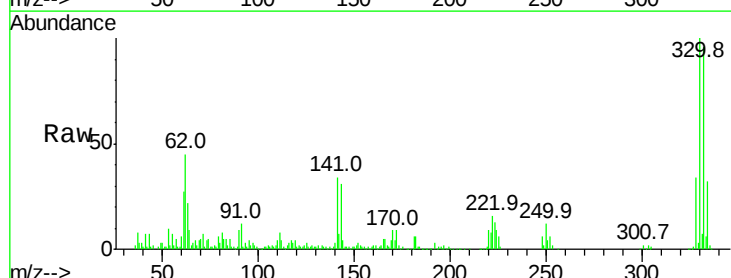
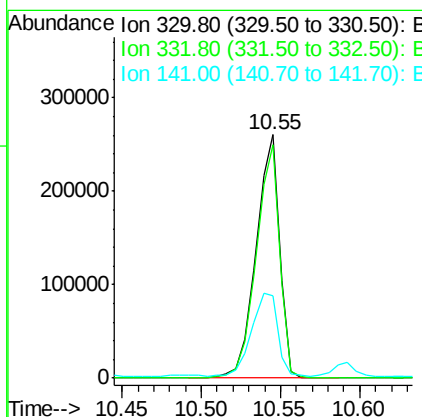
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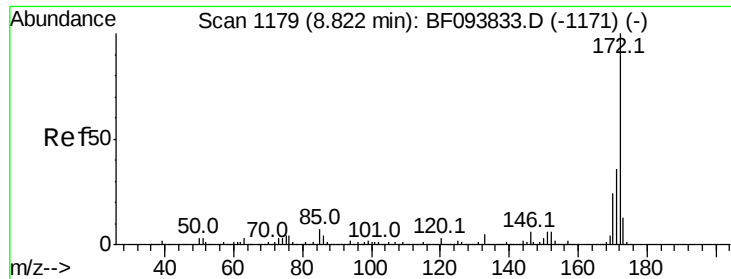
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#41
 2,4,6-Tribromophenol
 Concen: 140.52 ng
 RT: 10.55 min Scan# 1472
 Delta R.T. -0.03 min
 Lab File: BF094039.D
 Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.6	115.0
141	37.6	31.4	47.2





#44

2-Fluorobiphenyl

Concen: 100.54 ng

RT: 8.75 min Scan# 1167

Delta R.T. -0.03 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Instrument :

BNA_F

ClientSampleId :

E2-AA9-ESW

Tot Ion:172 Resp: 1602991

Ion Ratio Lower Upper

172 100

171 36.6 29.6 44.4

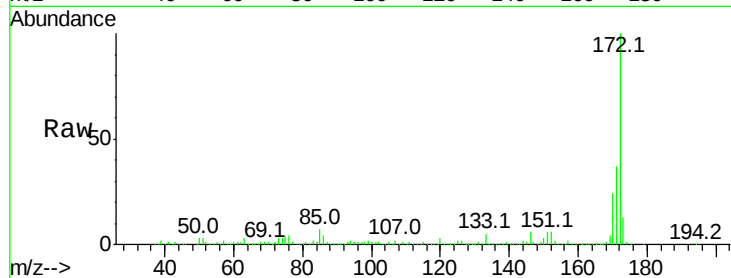
170 24.2 19.8 29.8

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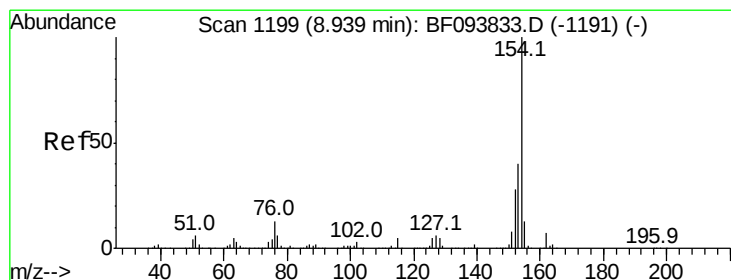
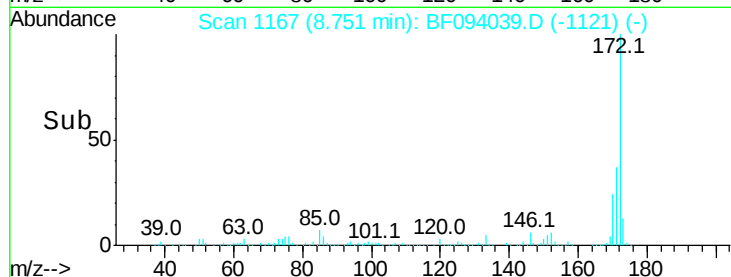
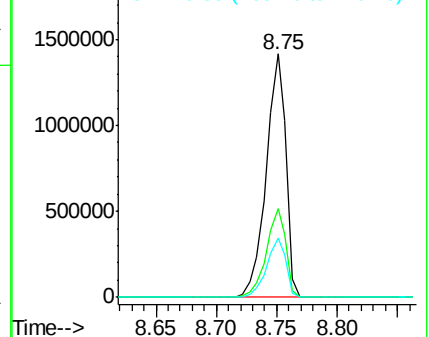
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Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#45

1,1'-Biphenyl

Concen: 6.05 ng

RT: 8.86 min Scan# 1186

Delta R.T. -0.04 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

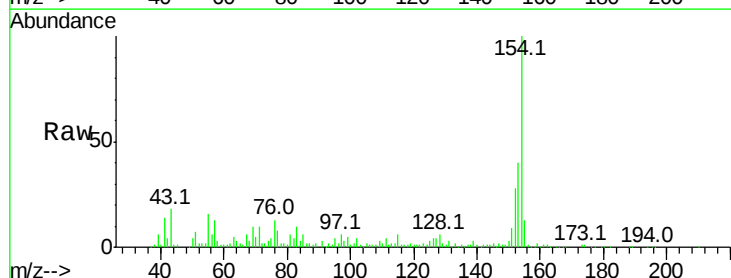
Tgt Ion:154 Resp: 118683

Ion Ratio Lower Upper

154 100

153 40.0 21.2 61.2

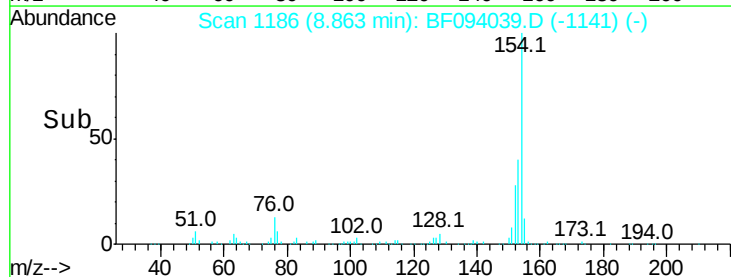
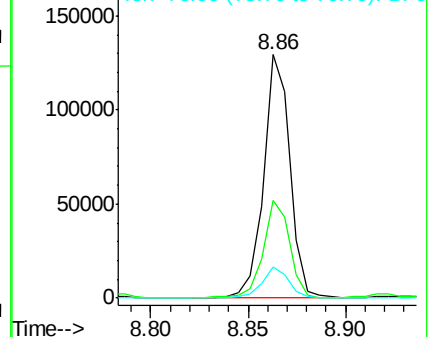
76 12.6 0.0 29.9

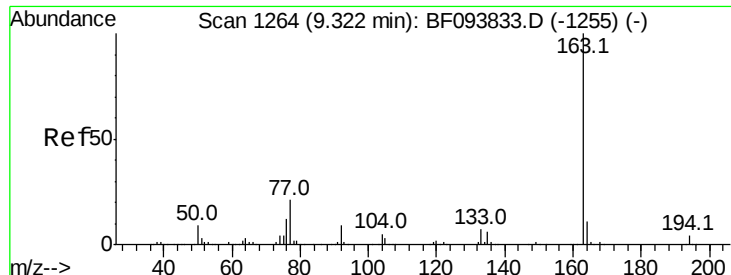


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





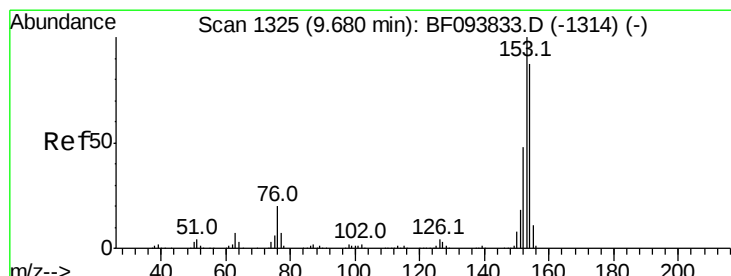
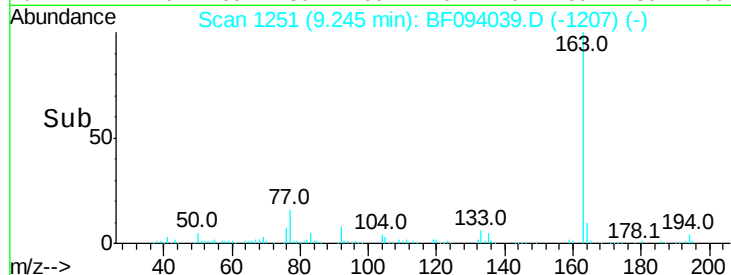
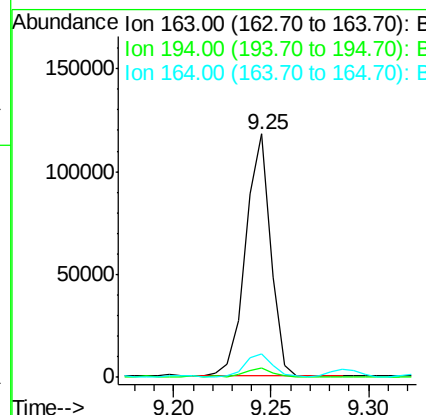
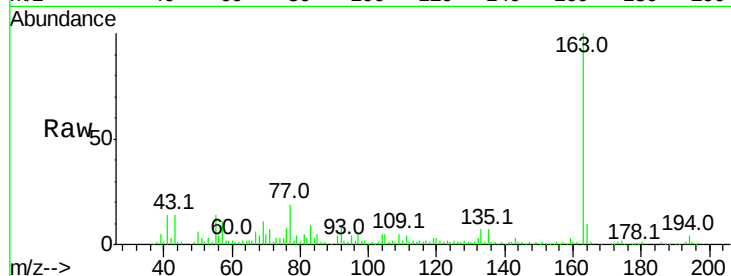
#49
Dimethylphthalate
Concen: 6.02 ng
RT: 9.25 min Scan# 1251
Delta R.T. -0.04 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.9	2.6	4.0	
164	9.8	8.4	12.6	

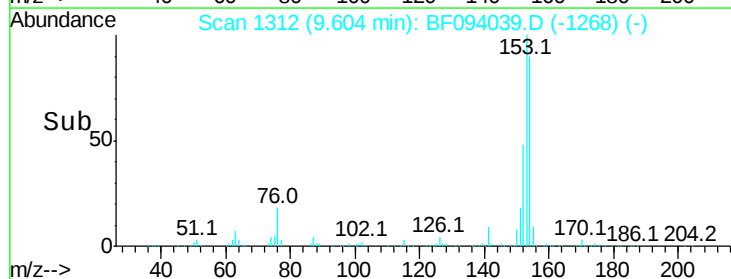
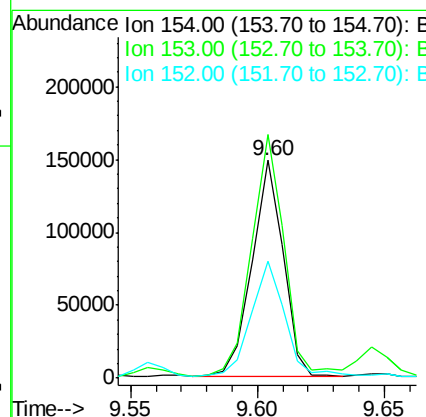
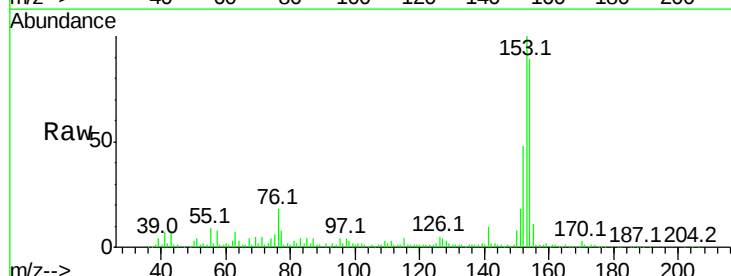
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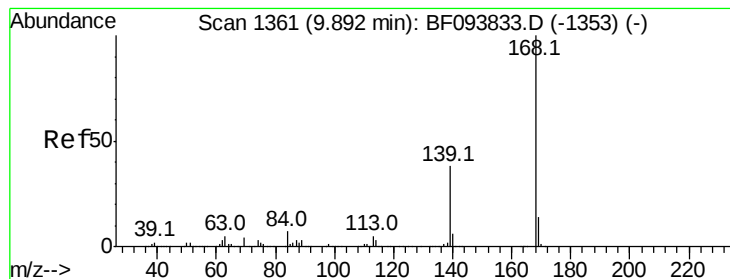
mohammad
3/30/2017 2:33:05 PM



#51
Acenaphthene
Concen: 8.53 ng
RT: 9.60 min Scan# 1312
Delta R.T. -0.04 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	111.8	90.5	135.7	
152	53.5	43.6	65.4	





#54

Dibenzofuran

Concen: 10.45 ng

RT: 9.82 min Scan# 1348

Delta R.T. -0.04 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Instrument :

BNA_F

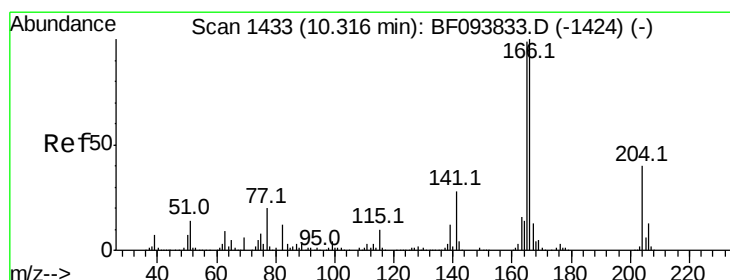
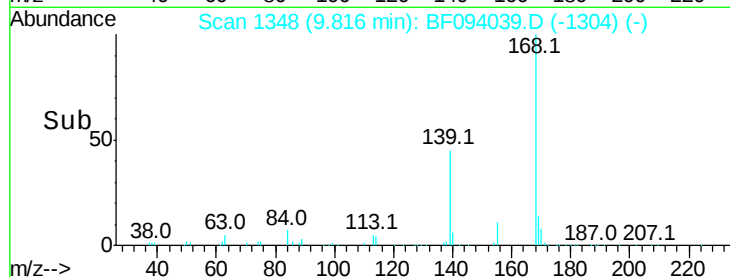
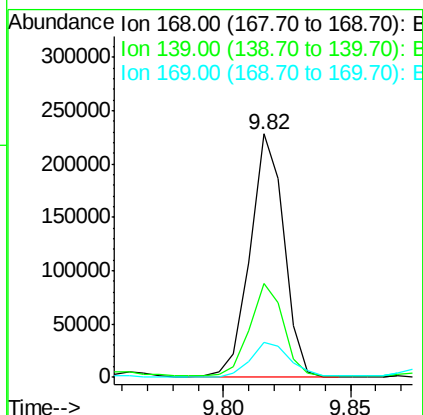
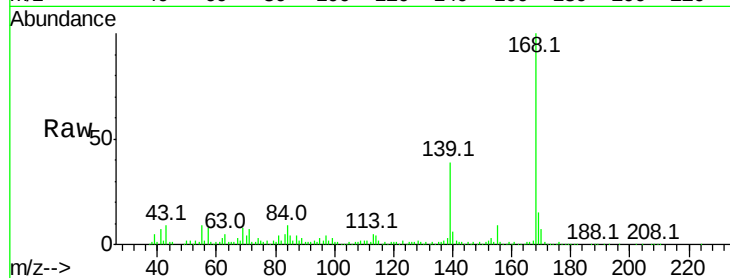
ClientSampleId :

E2-AA9-ESW

Tot Ion:	168	Resp:	211910
Ion Ratio	Lower	Upper	
168	100		
139	38.7	30.6	45.8
169	14.5	10.8	16.2

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#57

Fluorene

Concen: 9.23 ng

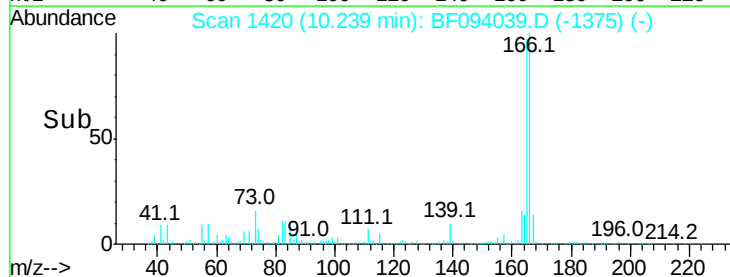
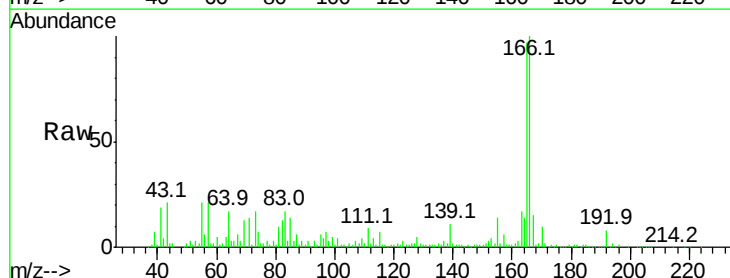
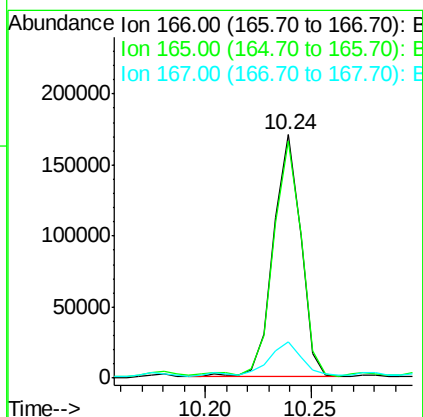
RT: 10.24 min Scan# 1420

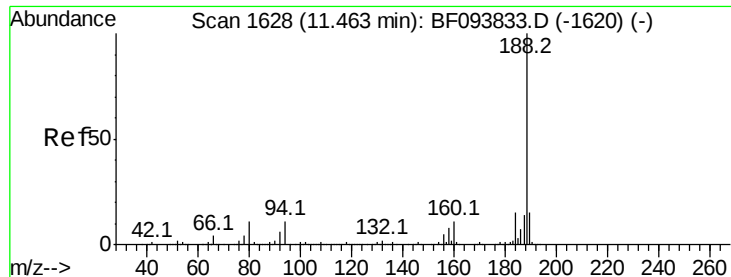
Delta R.T. -0.04 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Tgt Ion:	166	Resp:	155167
Ion Ratio	Lower	Upper	
166	100		
165	97.5	78.8	118.2
167	14.9	10.6	16.0





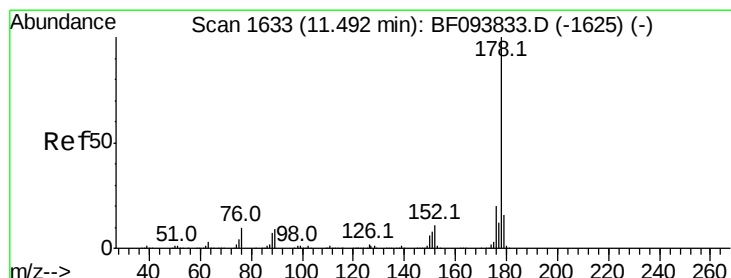
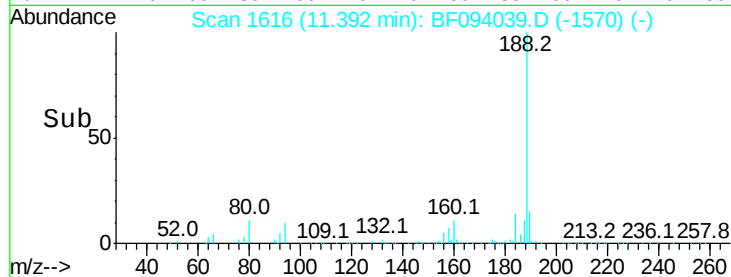
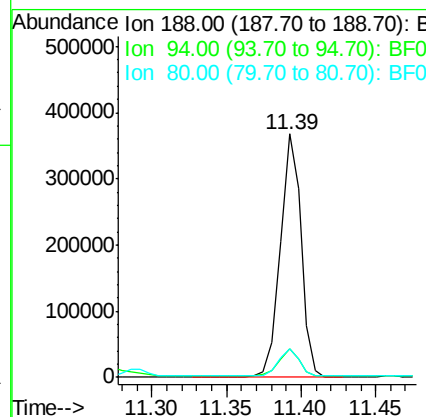
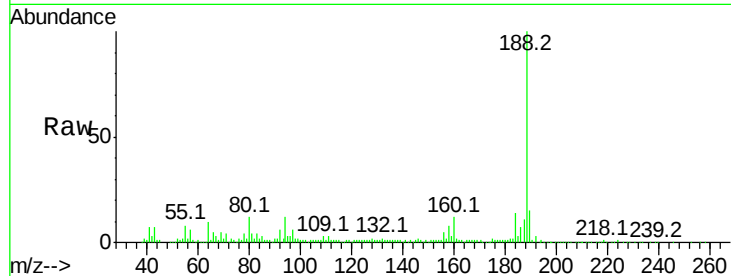
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.39 min Scan# 1616
Delta R.T. -0.03 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.6	9.4	14.2	
80	12.0	10.2	15.2	

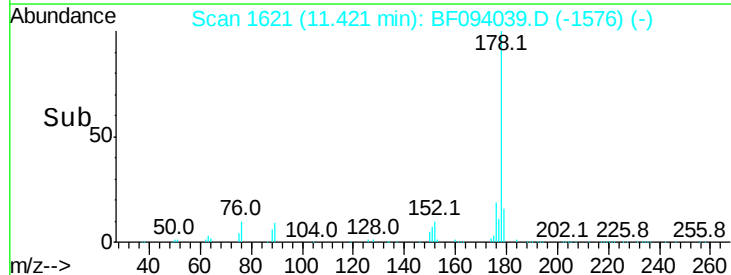
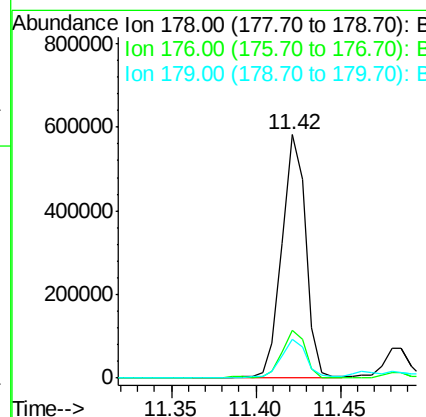
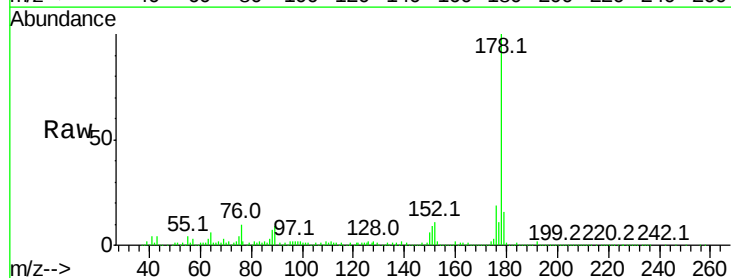
Manual Integrations
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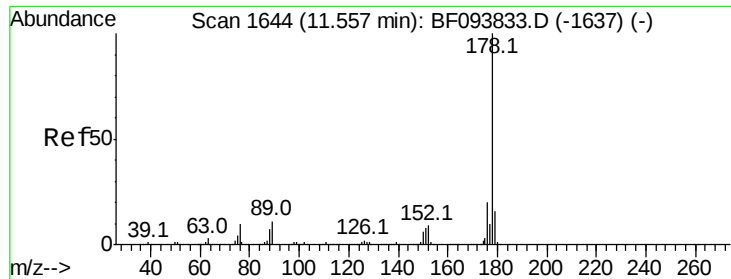
mohammad
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#70
Phenanthrene
Concen: 28.42 ng
RT: 11.42 min Scan# 1621
Delta R.T. -0.04 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	19.5	16.2	24.4	
179	16.1	12.6	19.0	





#71

Anthracene

Concen: 3.92 ng m

RT: 11.48 min Scan# 1631

Delta R.T. -0.04 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Instrument :

BNA_F

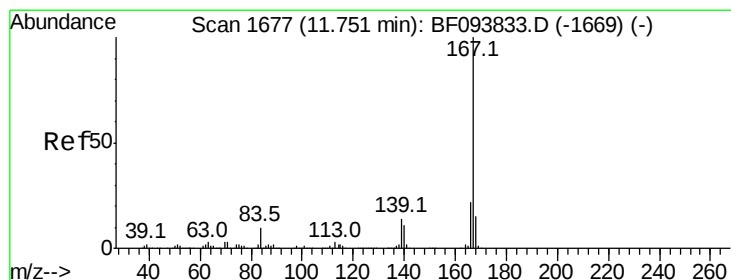
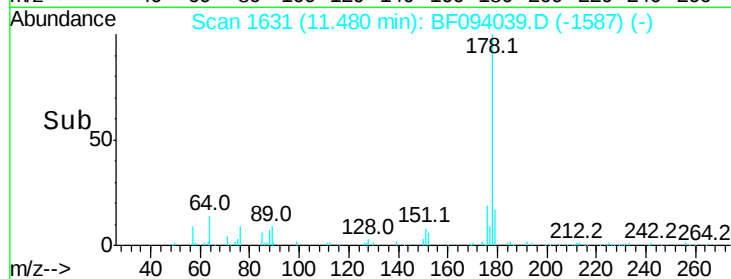
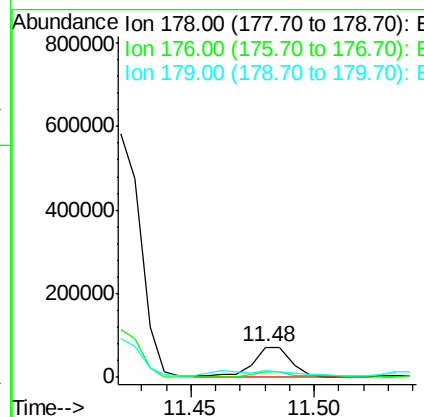
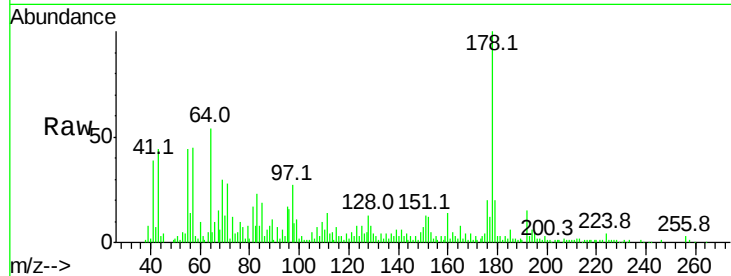
ClientSampleId :

E2-AA9-ESW

Tot Ion:	178	Resp:	80916
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.8	23.8
179	20.4	12.7	19.1#

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#72

Carbazole

Concen: 2.72 ng

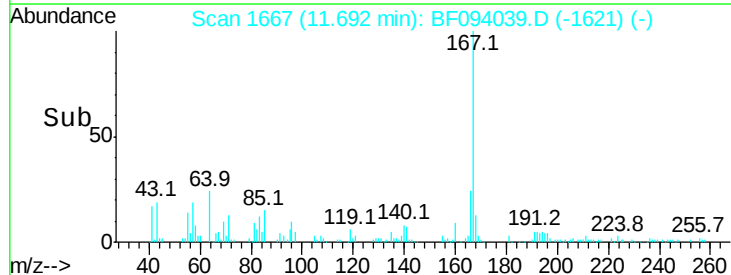
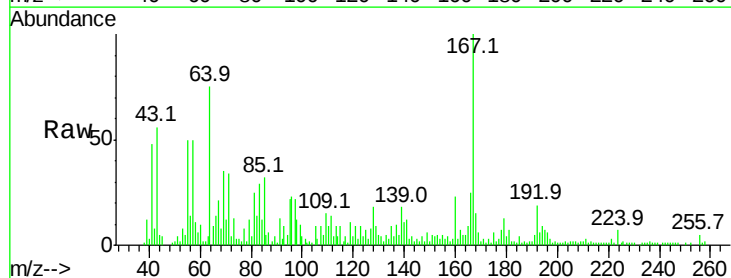
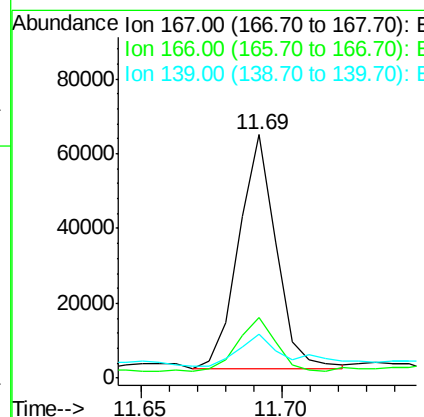
RT: 11.69 min Scan# 1667

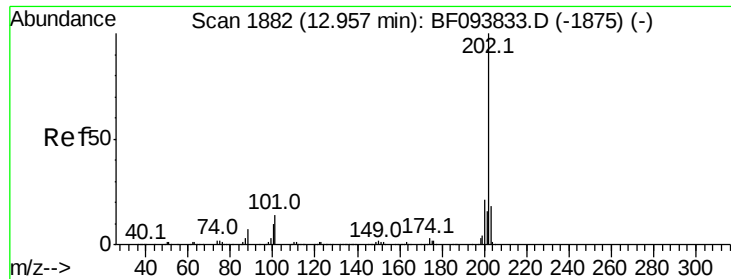
Delta R.T. -0.03 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Tgt Ion:	167	Resp:	57416
Ion Ratio	Lower	Upper	
167	100		
166	25.0	18.1	27.1
139	17.9	11.7	17.5#





#74

Fluoranthene

Concen: 14.46 ng

RT: 12.93 min Scan# 1878

Delta R.T. 0.01 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Instrument :

BNA_F

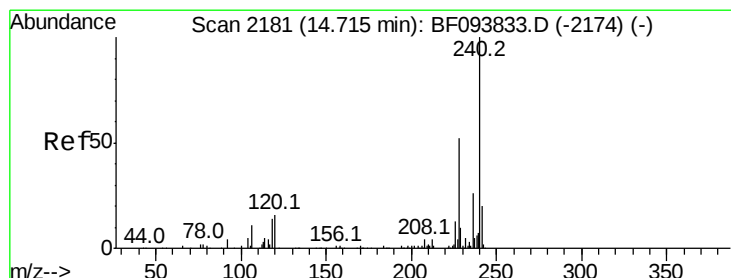
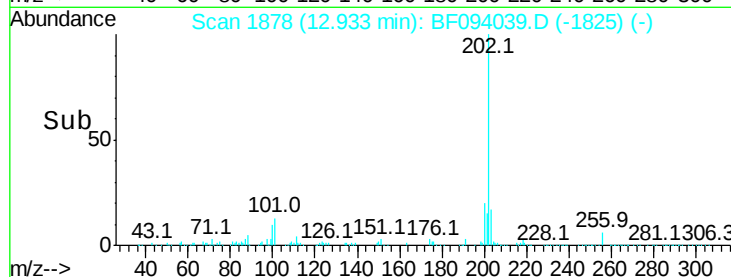
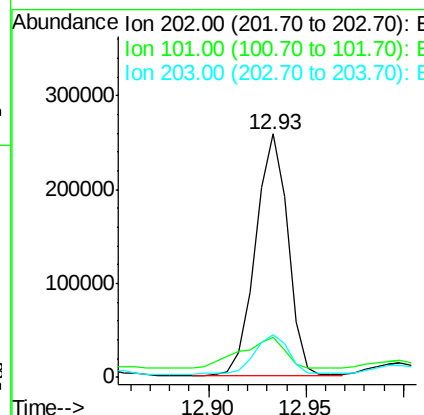
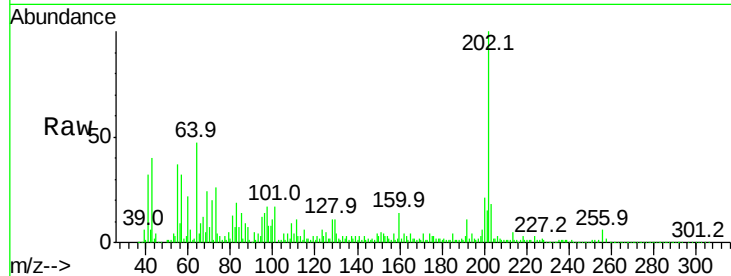
ClientSampleId :

E2-AA9-ESW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	16.5	0.0	33.2
203	17.8	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

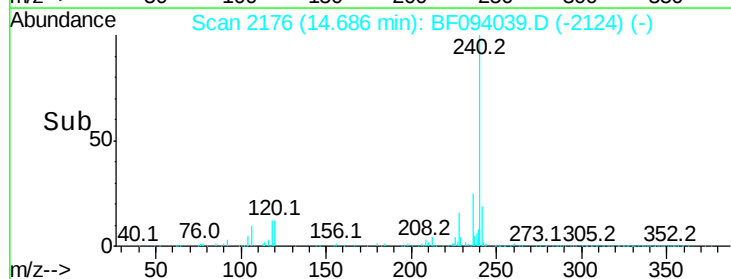
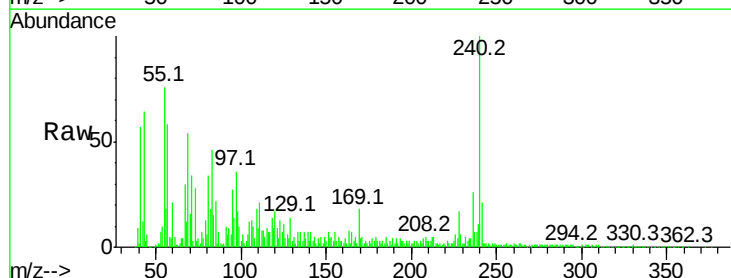
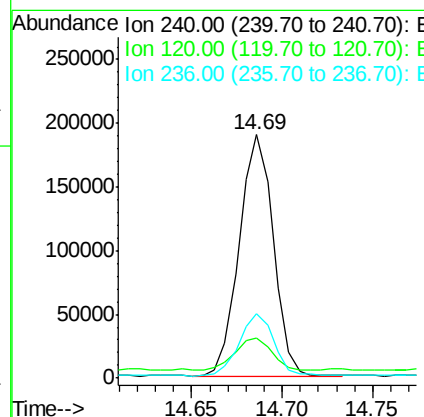
RT: 14.69 min Scan# 2176

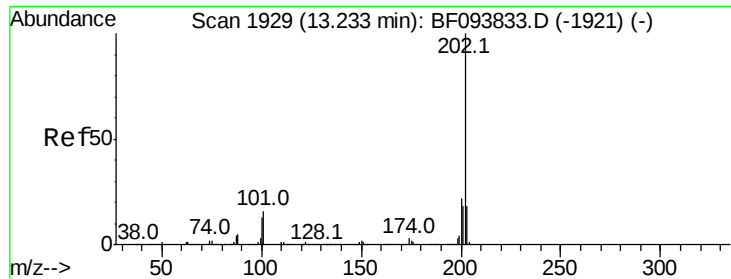
Delta R.T. 0.01 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	16.6	5.8	8.8#
236	26.4	20.5	30.7





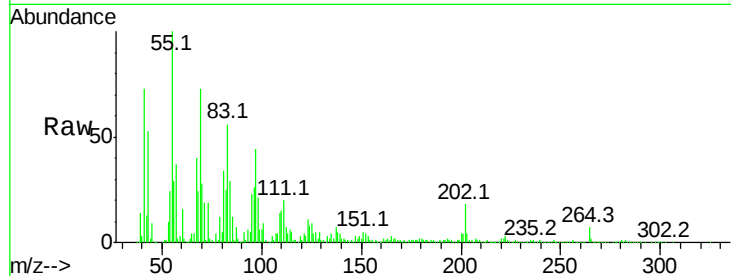
#77
Pvrene
Concen: 6.57 ng
RT: 13.19 min Scan# 1922
Delta R.T. -0.01 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

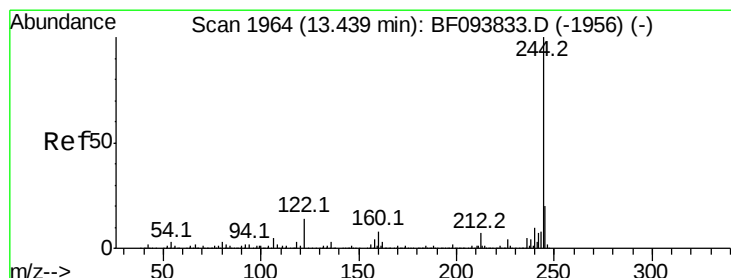
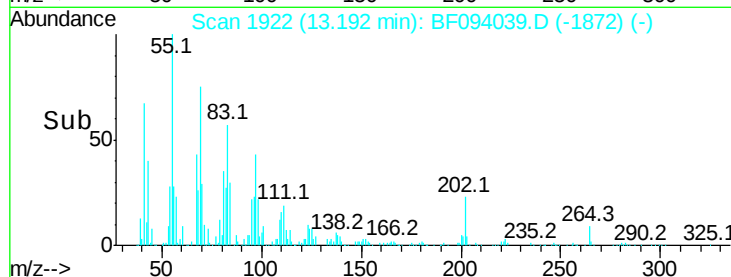
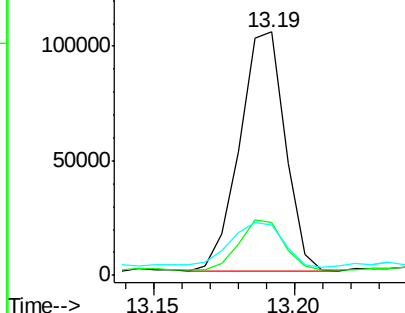
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
200	21.7	17.6	26.4		
203	20.4	14.4	21.6		

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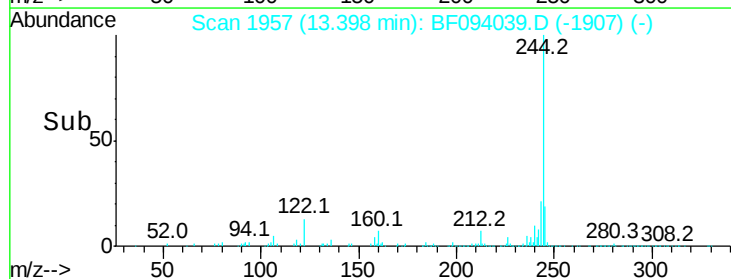
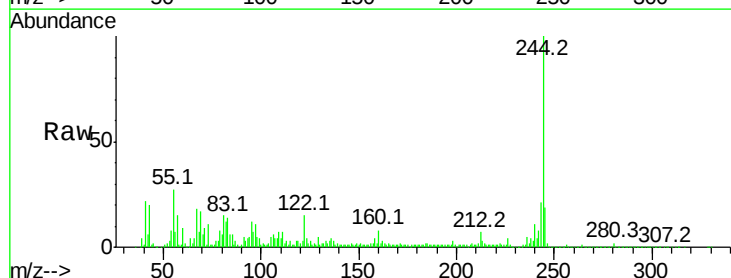
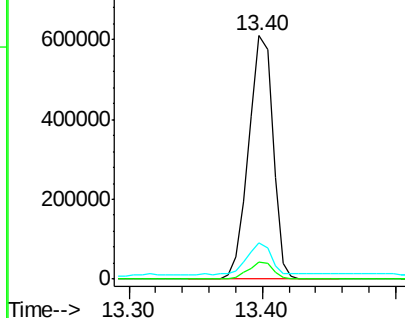
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

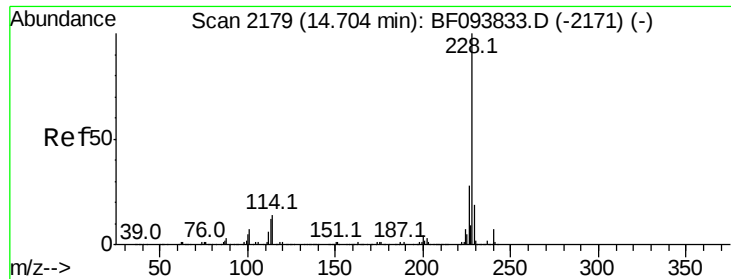


#78
Terphenyl-d14
Concen: 69.22 ng
RT: 13.40 min Scan# 1957
Delta R.T. -0.01 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
244	100				
212	7.2	6.0	9.0		
122	14.7	10.3	15.5		

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





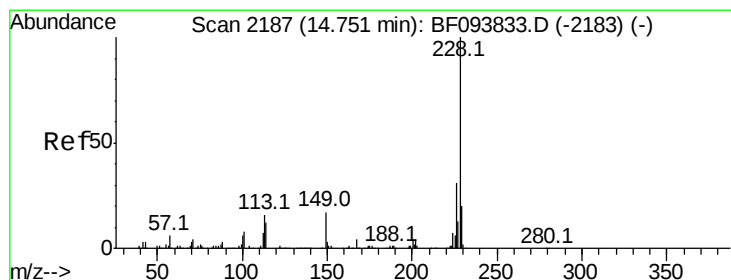
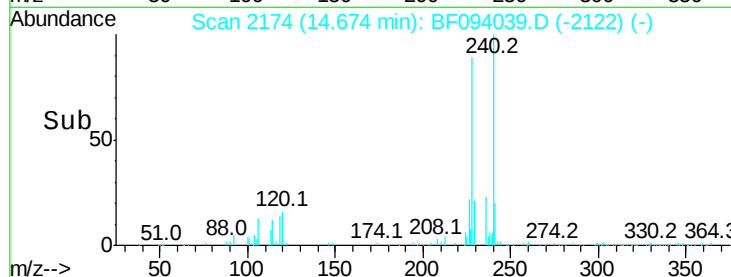
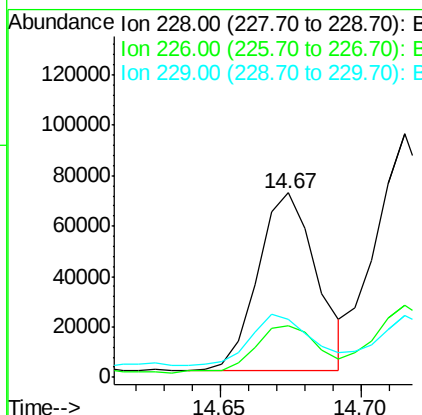
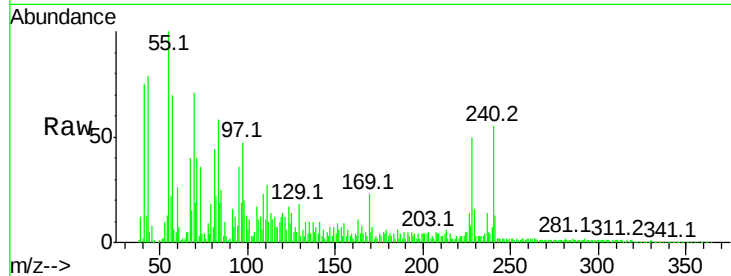
#80
Benzo(a)anthracene
Concen: 7.05 ng
RT: 14.67 min Scan# 2174
Delta R.T. 0.01 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	31.2	16.3	24.5

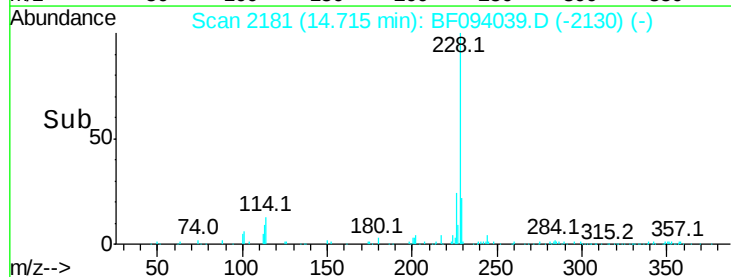
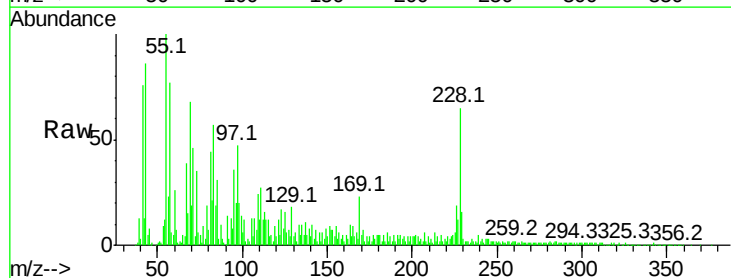
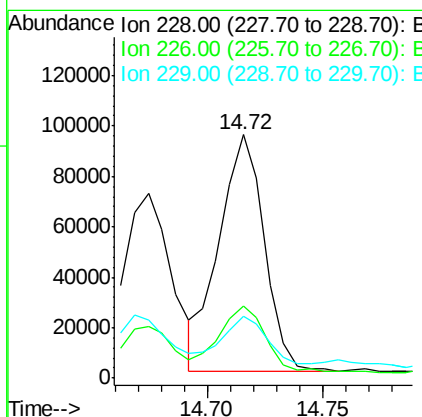
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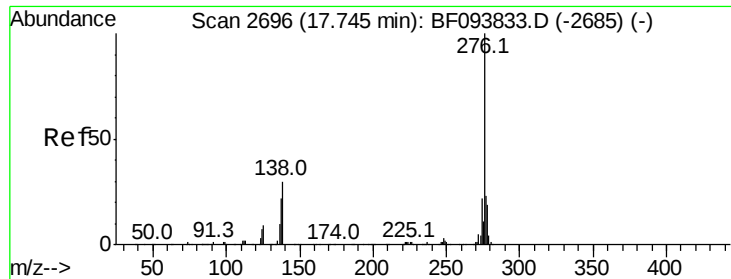
mohammad
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#82
Chrysene
Concen: 9.52 ng
RT: 14.72 min Scan# 2181
Delta R.T. -0.00 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.9	37.3
229	25.4	15.8	23.6





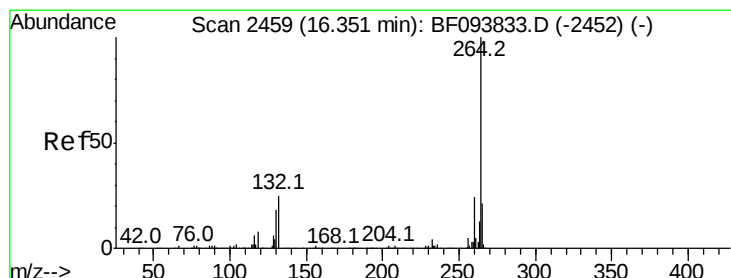
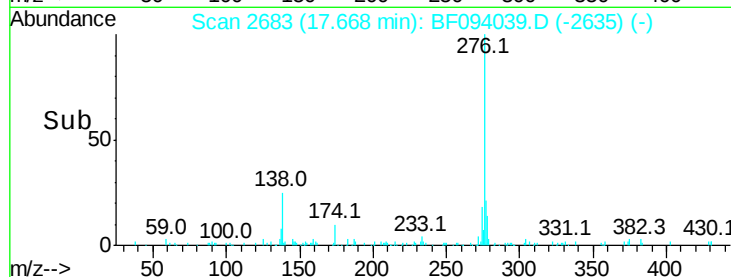
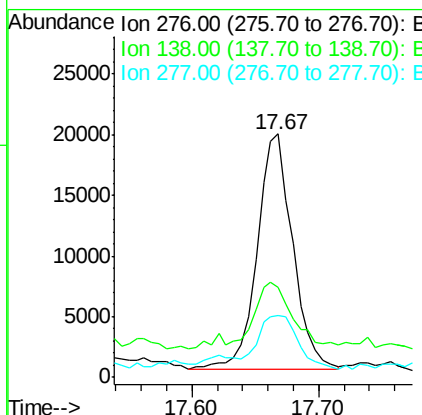
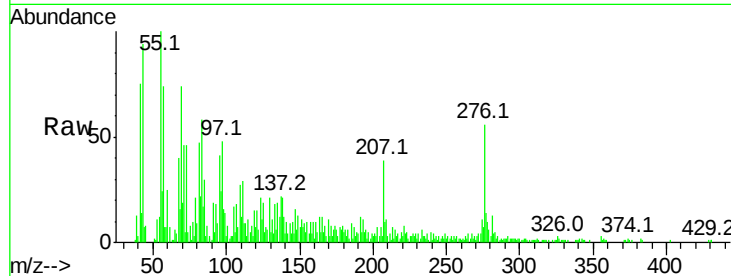
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.27 ng
RT: 17.67 min Scan# 2683
Delta R.T. -0.02 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Instrument :
BNA_F
ClientSampled :
E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.8	27.8	41.6#
277	26.1	20.2	30.4

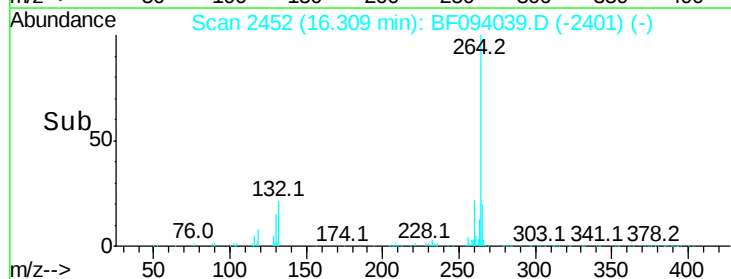
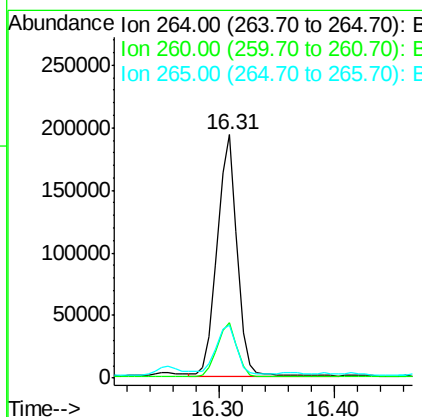
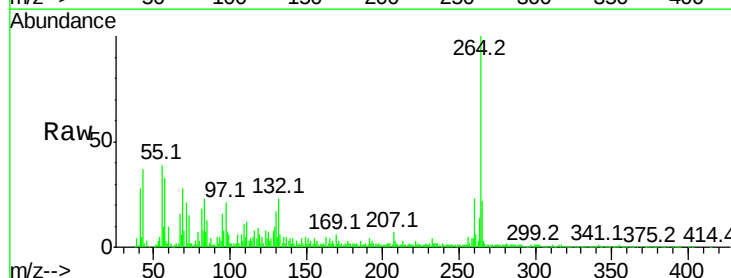
Manual Integrations
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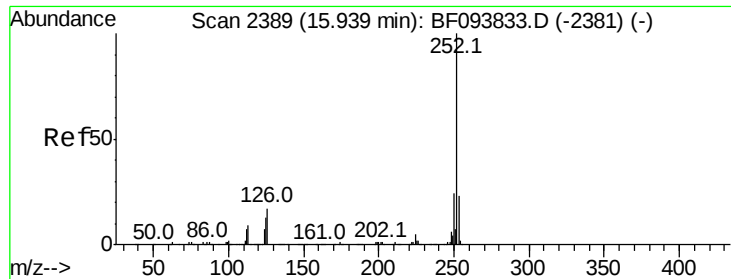
mohammad
3/30/2017 2:33:05 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 16.31 min Scan# 2452
Delta R.T. -0.00 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.5	29.3
265	21.6	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 7.08 ng m

RT: 15.90 min Scan# 2382

Delta R.T. 0.00 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Instrument :

BNA_F

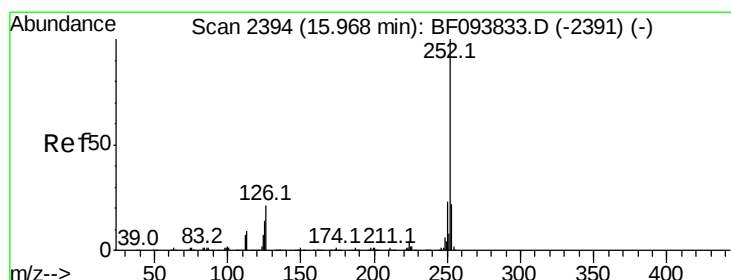
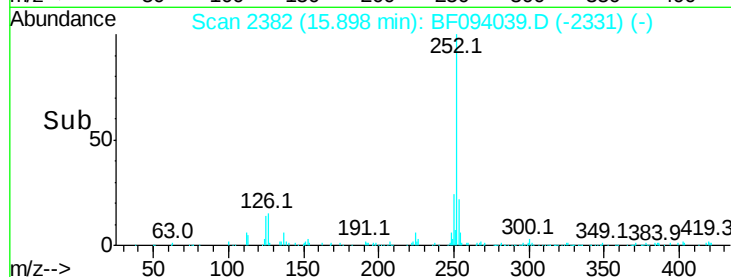
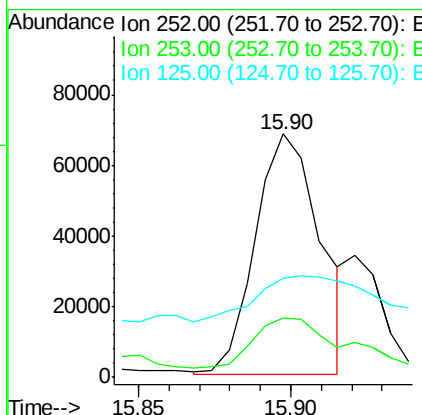
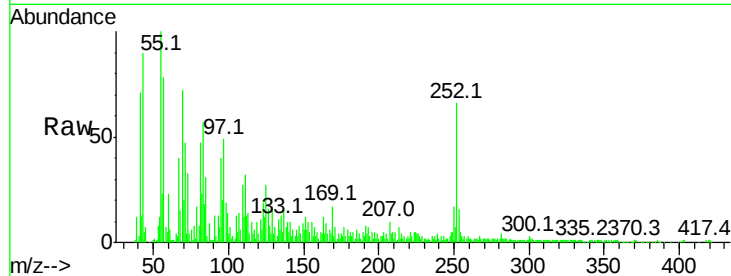
ClientSampleId :

E2-AA9-ESW

Tot Ion:	252	Resp:	100727
Ion Ratio	Lower	Upper	
252	100		
253	24.4	18.1	27.1
125	40.5	9.8	14.8#

Manual Integrations
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3/30/2017 2:33:05 PM



#88

Benzo(k)fluoranthene

Concen: 2.09 ng m

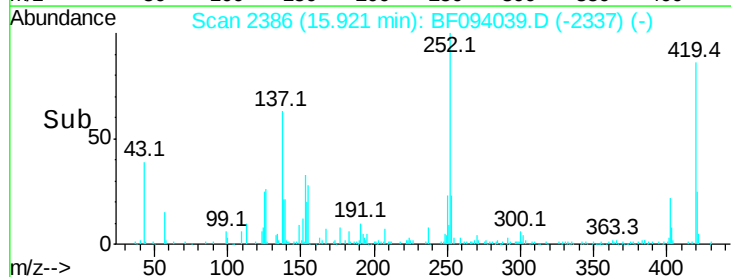
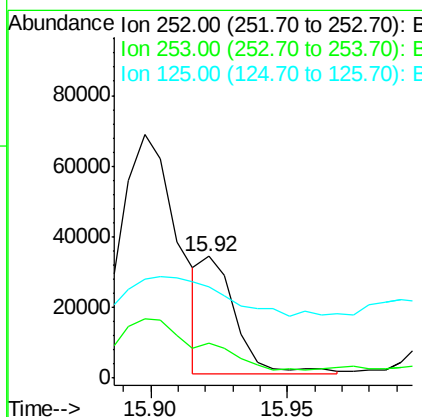
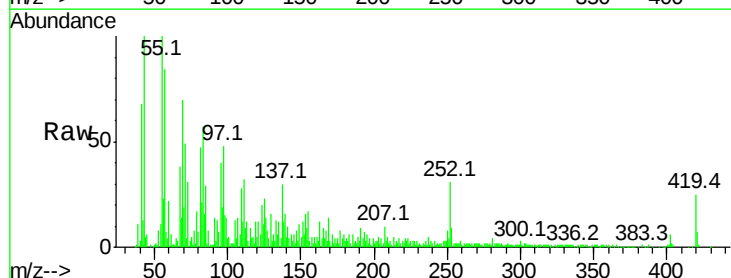
RT: 15.92 min Scan# 2386

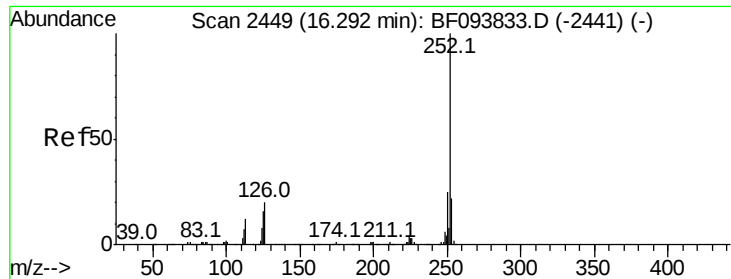
Delta R.T. -0.01 min

Lab File: BF094039.D

Acq: 30 Mar 2017 00:46

Tgt Ion:	252	Resp:	29178
Ion Ratio	Lower	Upper	
252	100		
253	28.8	18.4	27.6#
125	75.6	13.1	19.7#





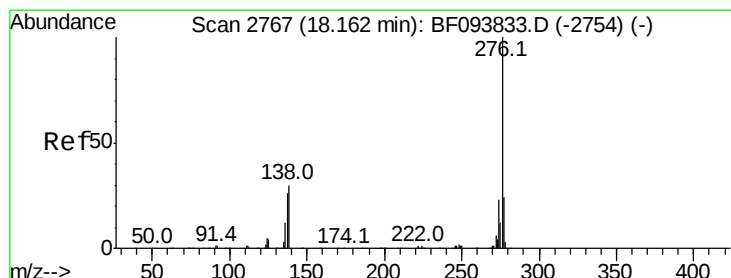
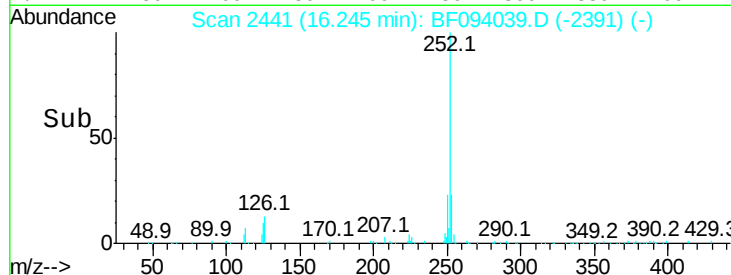
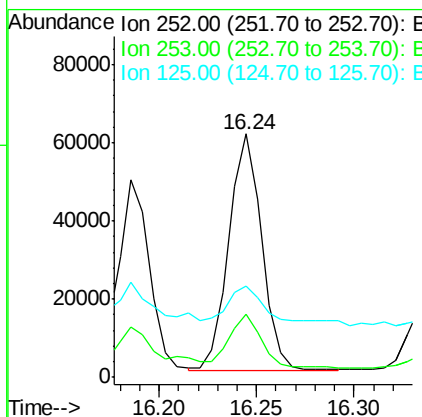
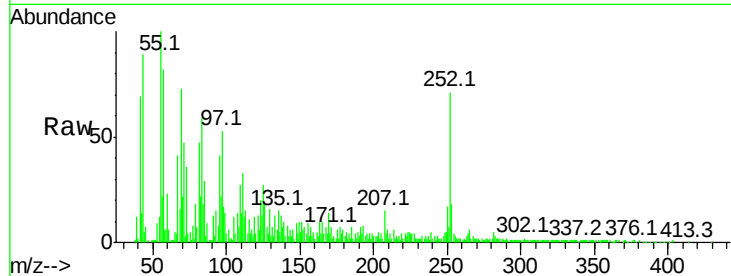
#89
Benzo(a)pyrene
Concen: 5.42 ng
RT: 16.24 min Scan# 2441
Delta R.T. -0.01 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.5	26.3
125	37.5	11.0	16.4

Manual Integrations
APPROVED

mohammad
3/30/2017 2:33:05 PM



#91
Benzo(g,h,i)perylene
Concen: 3.33 ng
RT: 18.07 min Scan# 2751
Delta R.T. -0.03 min
Lab File: BF094039.D
Acq: 30 Mar 2017 00:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.9	18.6	28.0
138	41.4	25.4	38.0

