

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094158.D
 Acq On : 4 Apr 2017 9:53
 Operator : SJ/MA
 Sample : I2463-10DL 5X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-7-8-SSWDL

Manual Integrations
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Quant Time: Apr 04 11:42:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	162428	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	614552	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	241426	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	370258	20.00	ng	-0.01
75) Chrysene-d12	14.62	240	311373	20.00	ng	-0.01
86) Perylene-d12	16.24	264	218374	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.42	112	328751	34.19	ng	-0.02
7) Phenol-d6	5.49	99	409679	34.44	ng	-0.02
23) Nitrobenzene-d5	6.53	82	198710	18.45	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	54391	28.51	ng	-0.02
44) 2-Fluorobiphenyl	8.72	172	363314	22.95	ng	-0.02
78) Terphenyl-d14	13.33	244	216407	15.58	ng	-0.02

Target Compounds

						Qvalue
17) 2-Methylphenol	6.19	107	19602	2.17	ng	93
20) 3+4-Methylphenols	6.37	107	39298	3.58	ng	# 57
27) 2,4-Dimethylphenol	7.00	122	56008	6.42	ng	97
31) Naphthalene	7.42	128	262088	8.87	ng	99
37) 2-Methylnaphthalene	8.26	142	68274	3.47	ng	95
51) Acenaphthene	9.57	154	77084	5.21	ng	99
54) Dibenzofuran	9.79	168	91310	4.54	ng	96
57) Fluorene	10.21	166	128516	7.70	ng	98
70) Phenanthrene	11.39	178	775925	37.67	ng	99
71) Anthracene	11.45	178	179284	8.45	ng	99
72) Carbazole	11.65	167	176265	8.11	ng	98
74) Fluoranthene	12.86	202	590976	28.02	ng	97
77) Pvrene	13.13	202	567176	25.10	ng	99
80) Benzo(a)anthracene	14.60	228	232177	12.79	ng	99
82) Chrysene	14.64	228	215381	12.78	ng	96
85) Indeno(1,2,3-cd)pyrene	17.59	276	62806	4.30	ng	98
87) Benzo(b)fluoranthene	15.84	252	187545m	14.01	ng	
88) Benzo(k)fluoranthene	15.86	252	54558m	4.17	ng	
89) Benzo(a)pvrene	16.19	252	130302	10.57	ng	99
91) Benzo(a,h,i)perylene	17.99	276	58687	5.58	ng	97

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

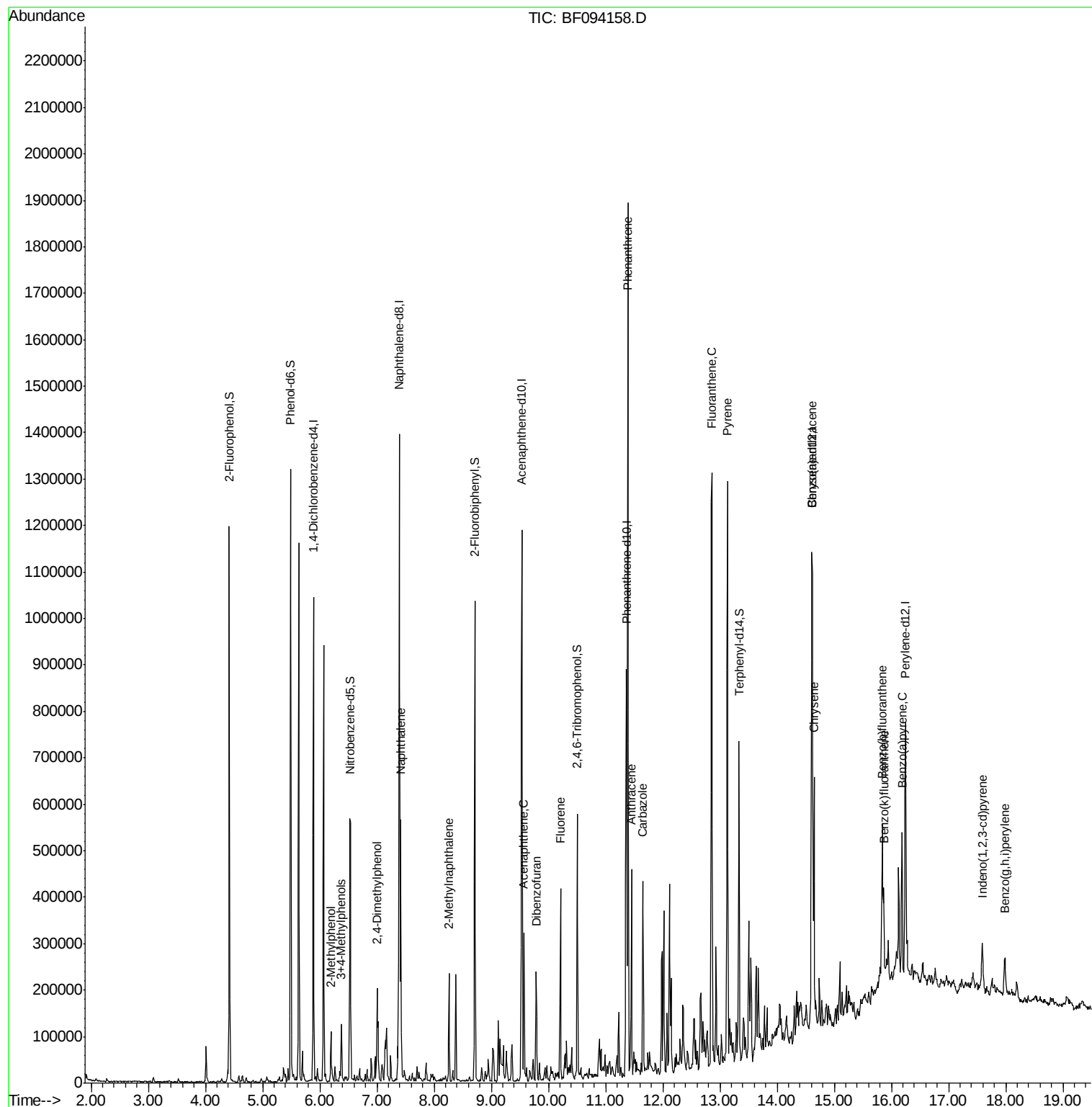
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
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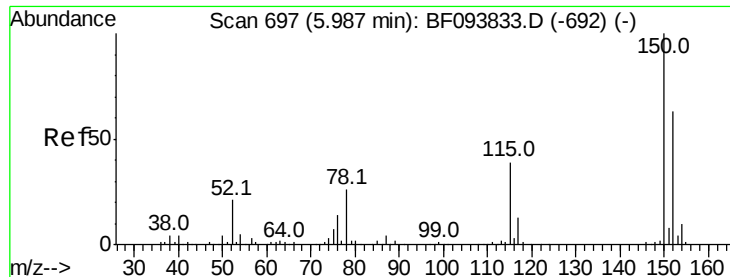
Instrument :
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ClientSampleId :
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Quant Time: Apr 04 11:42:19 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 31 14:38:29 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.89 min Scan# 680

Delta R.T. -0.02 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

Instrument :

BNA_F

ClientSampleId :

E2-BB-7-8-SSWDL

Tot Ion:152 Resp: 162428

Ion Ratio Lower Upper

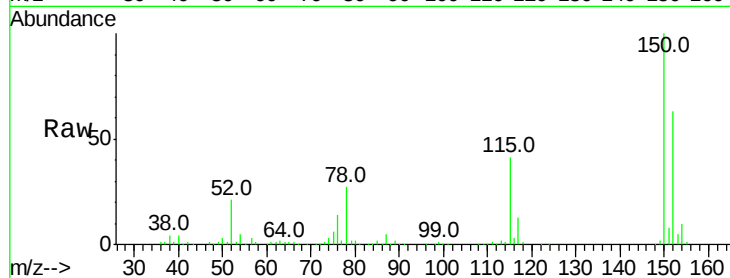
152 100

150 158.1 126.2 189.2

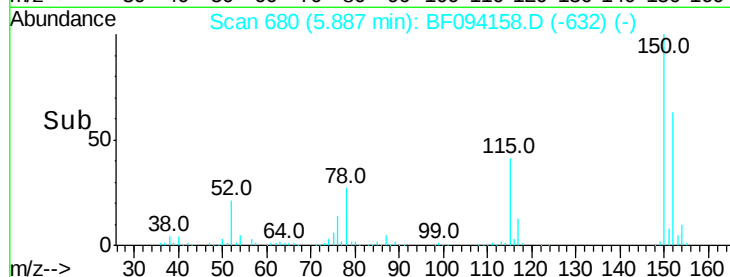
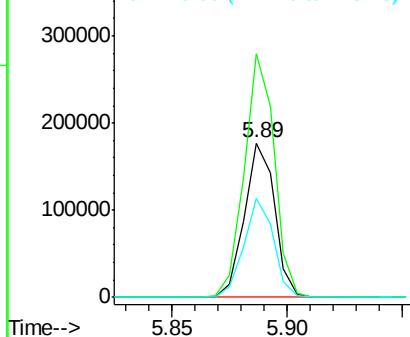
115 64.2 52.2 78.2

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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: 34.19 ng

RT: 4.42 min Scan# 430

Delta R.T. -0.02 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

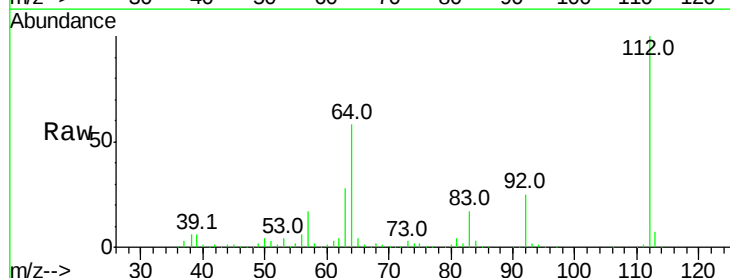
Tgt Ion:112 Resp: 328751

Ion Ratio Lower Upper

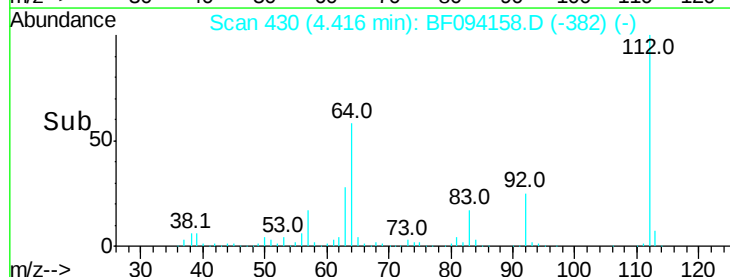
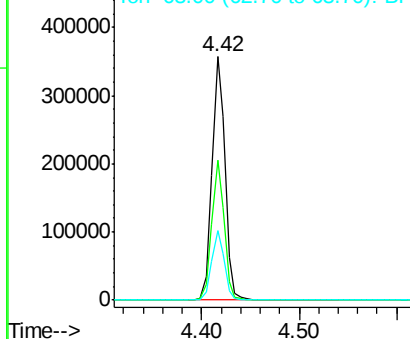
112 100

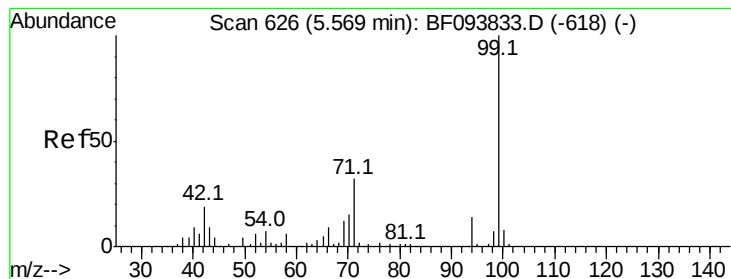
64 57.7 46.0 69.0

63 28.5 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: 34.44 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

Instrument :

BNA_F

ClientSampleId :

E2-BB-7-8-SSWDL

Tot Ion: 99 Resp: 409679

Ion Ratio Lower Upper

99 100

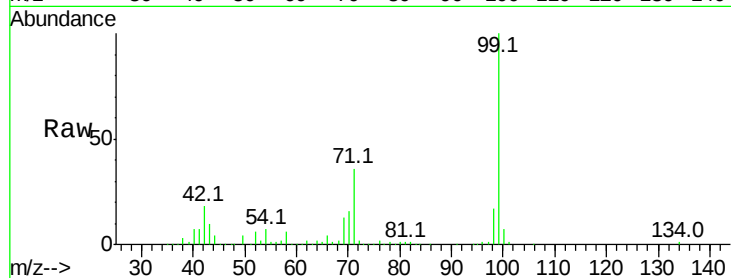
42 18.5 13.5 20.3

71 35.7 24.5 36.7

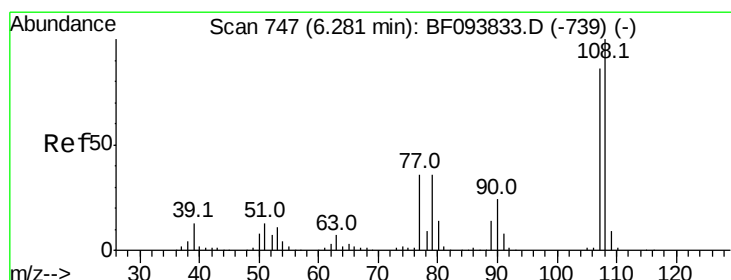
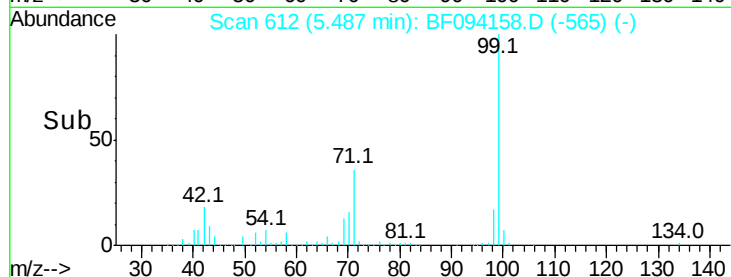
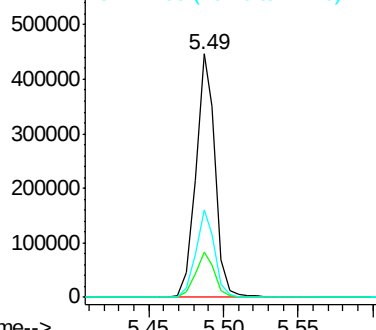
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#17

2-Methylphenol

Concen: 2.17 ng

RT: 6.19 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

Tgt Ion: 107 Resp: 19602

Ion Ratio Lower Upper

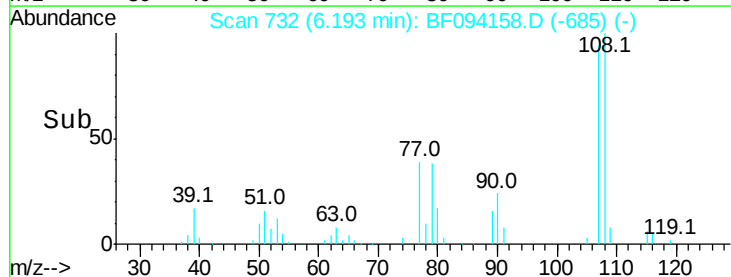
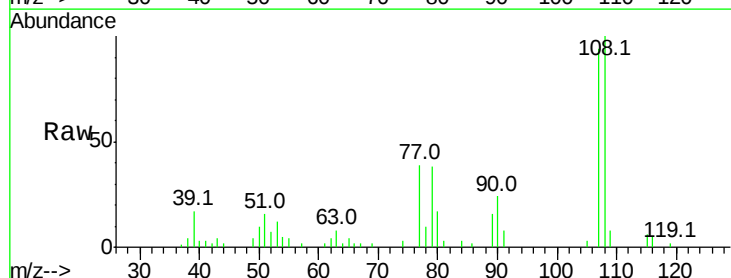
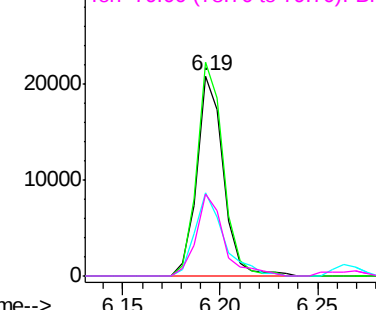
107 100

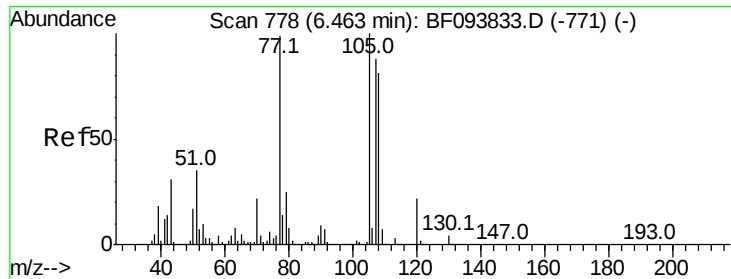
108 106.9 93.4 140.0

77 41.7 35.8 53.6

79 40.7 34.8 52.2

Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF0
Ion 79.00 (78.70 to 79.70): BF0





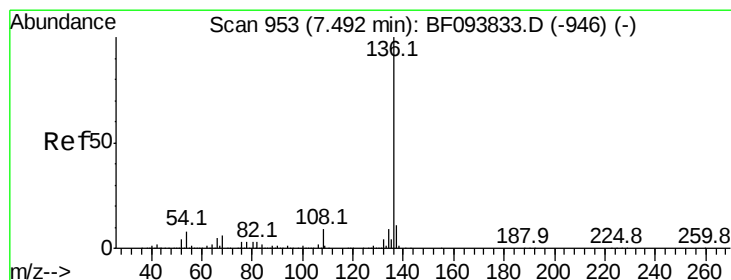
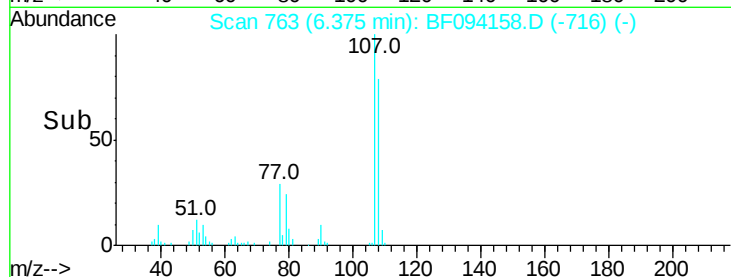
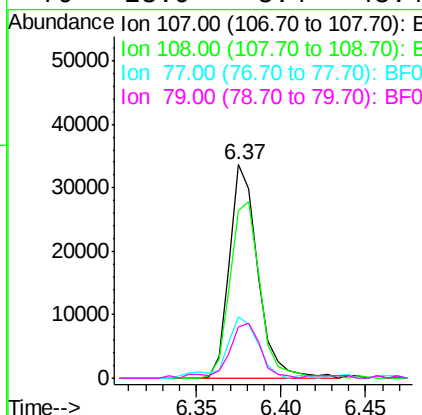
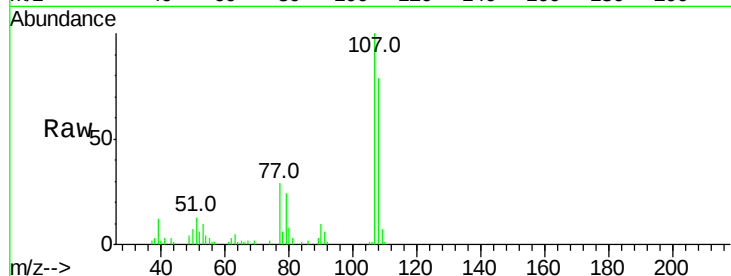
#20
3+4-Methylphenols
Concen: 3.58 ng
RT: 6.37 min Scan# 763
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Instrument :
BNA_F
ClientSampleId :
E2-BB-7-8-SSWDL

Tot Ion	Ratio	Lower	Upper
107	100		
108	78.8	71.0	111.0
77	29.0	90.5	130.5#
79	23.9	8.4	48.4

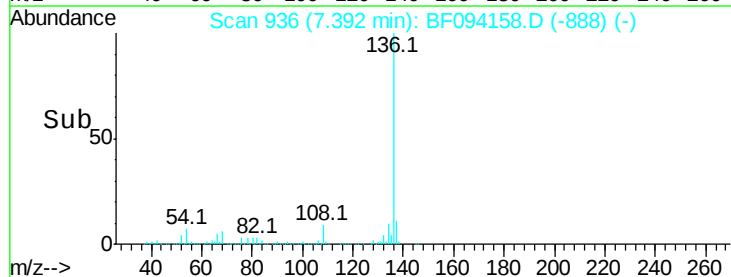
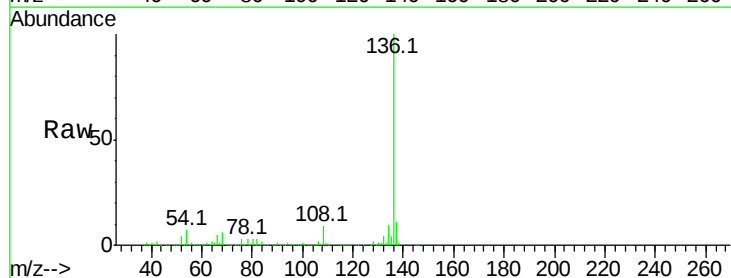
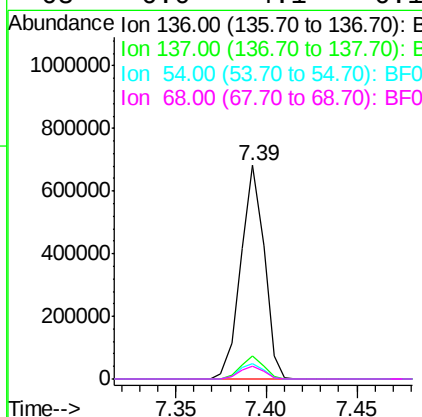
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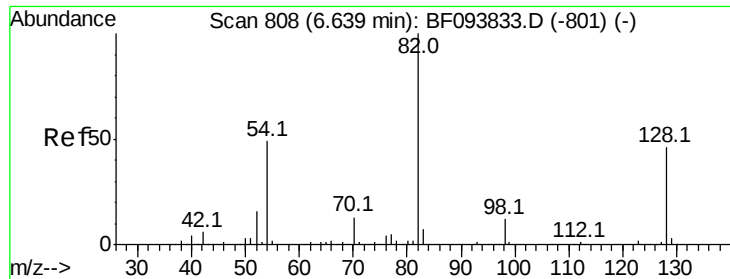
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.39 min Scan# 936
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	7.3	4.9	7.3
68	6.0	4.1	6.1





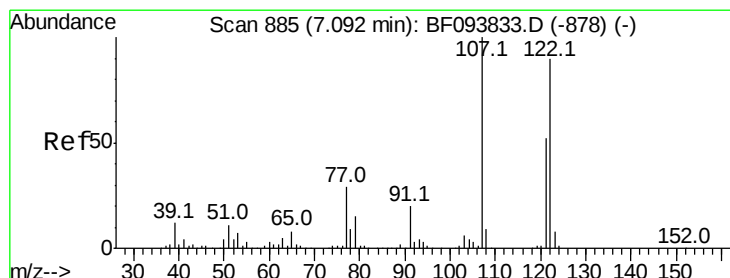
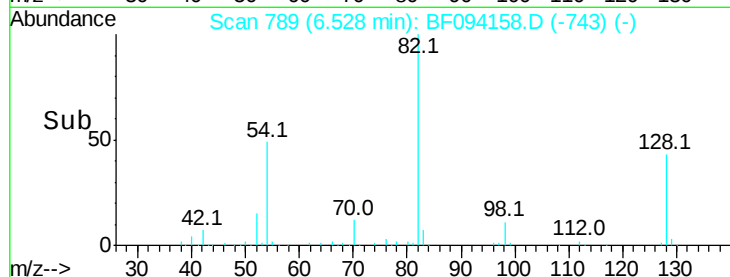
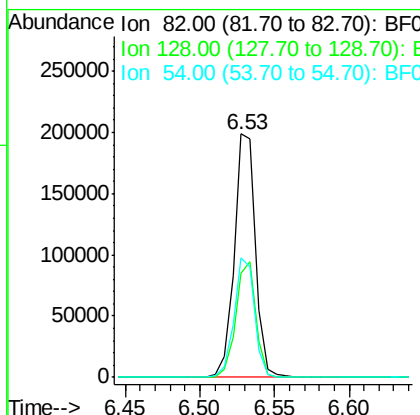
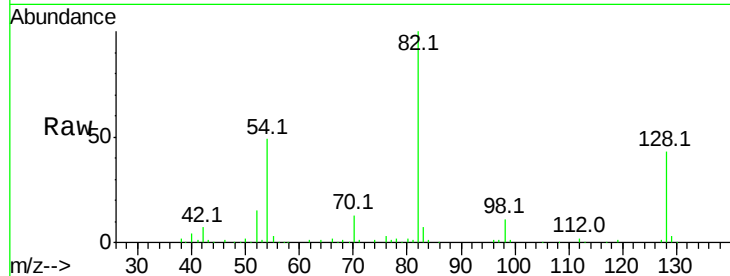
#23
 Nitrobenzene-d5
 Concen: 18.45 ng
 RT: 6.53 min Scan# 789
 Delta R.T. -0.03 min
 Lab File: BF094158.D
 Acq: 4 Apr 2017 9:53

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-7-8-SSWDL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.0	34.0	51.0	
54	48.9	42.2	63.2	

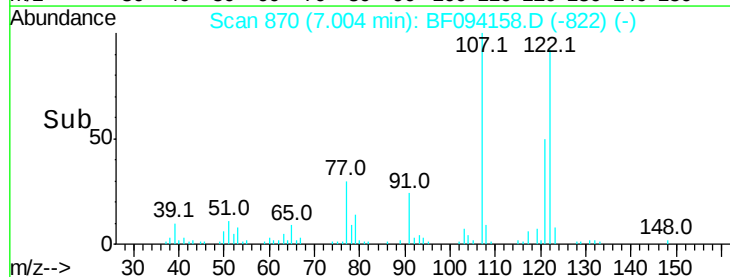
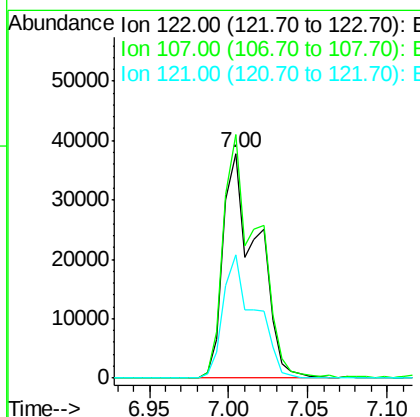
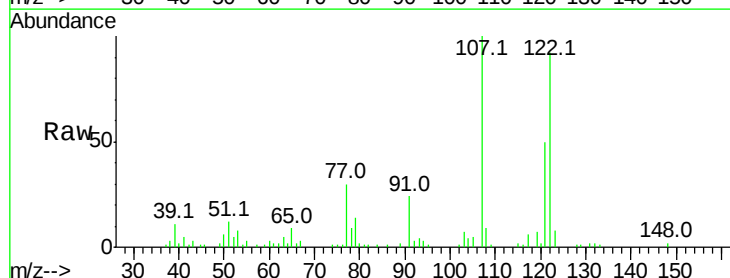
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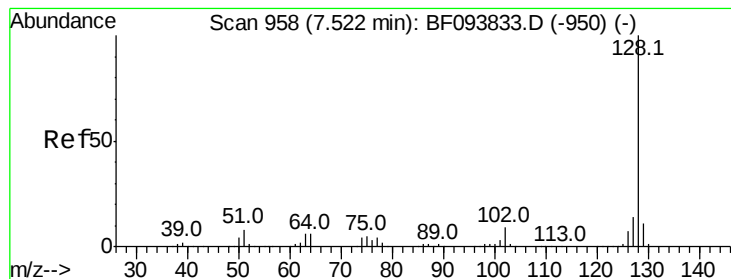
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#27
 2,4-Dimethylphenol
 Concen: 6.42 ng
 RT: 7.00 min Scan# 870
 Delta R.T. -0.02 min
 Lab File: BF094158.D
 Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
122	100			
107	108.3	89.2	133.8	
121	54.6	45.2	67.8	





#31

Naphthalene

Concen: 8.87 ng

RT: 7.42 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

Instrument :

BNA_F

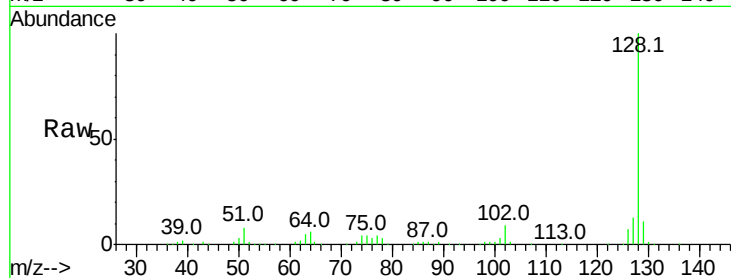
ClientSampleId :

E2-BB-7-8-SSWDL

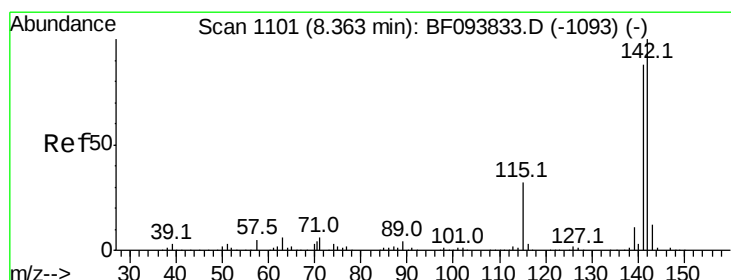
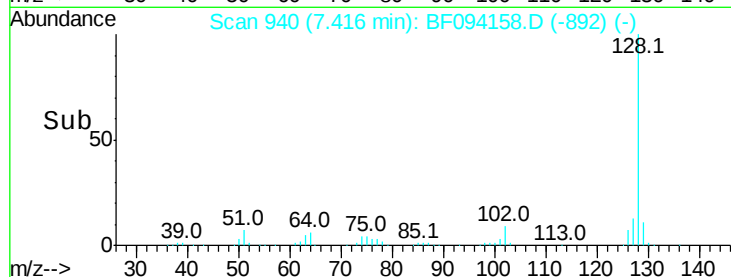
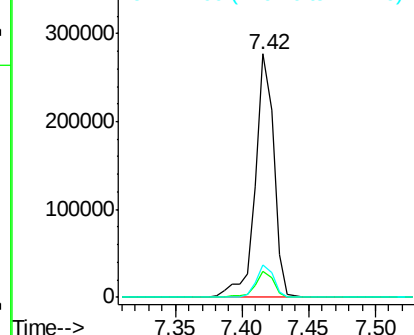
Tot Ion:	128	Resp:	262088
Ion Ratio		Lower	Upper
128	100		
129	10.9	9.0	13.6
127	13.1	10.8	16.2

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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: 3.47 ng

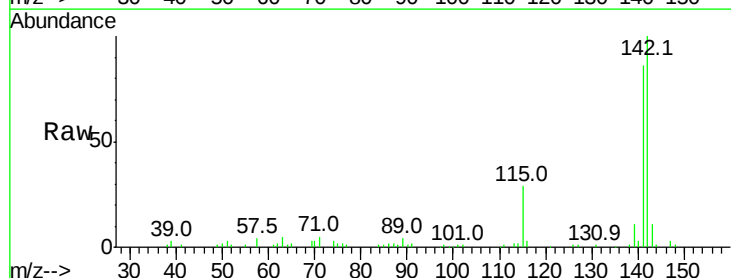
RT: 8.26 min Scan# 1084

Delta R.T. -0.01 min

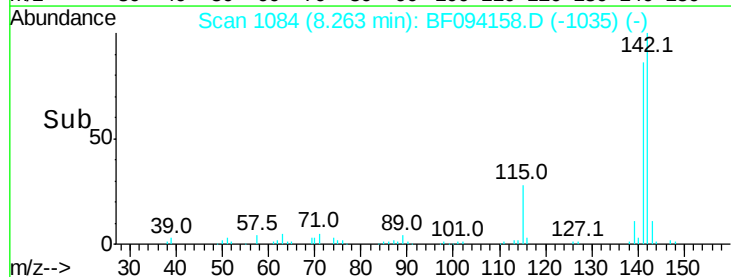
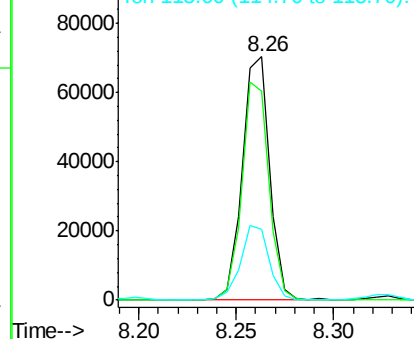
Lab File: BF094158.D

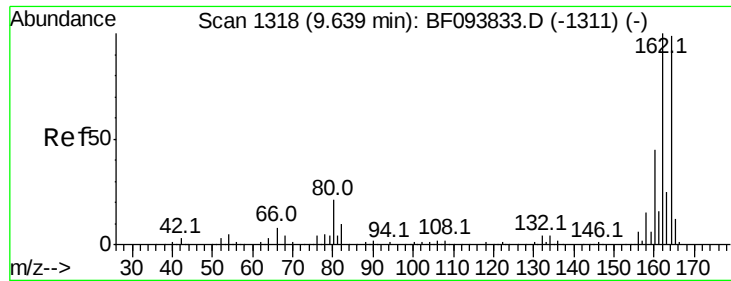
Acq: 4 Apr 2017 9:53

Tgt Ion:	142	Resp:	68274
Ion Ratio		Lower	Upper
142	100		
141	86.1	71.3	106.9
115	29.1	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





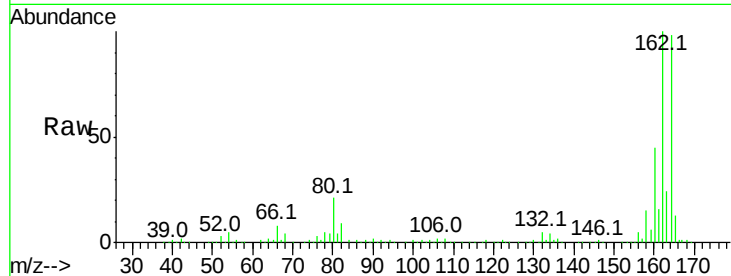
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094158.D
 Acq: 4 Apr 2017 9:53

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-7-8-SSWDL

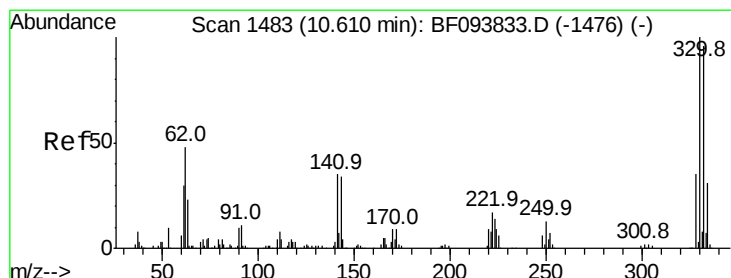
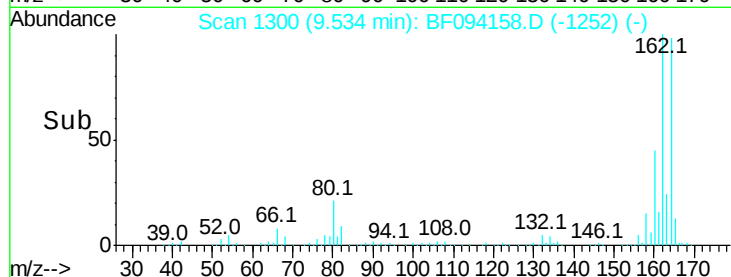
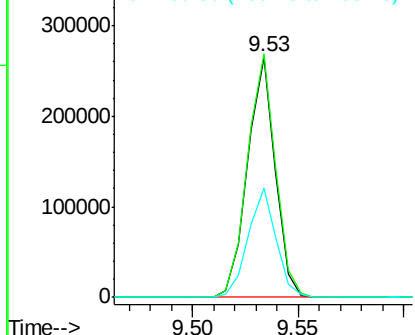
Tot Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.6	123.8
160	45.4	36.2	54.2

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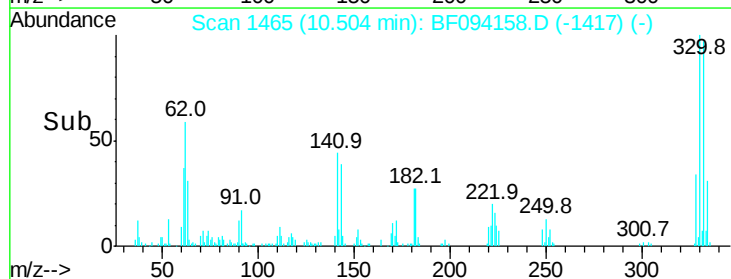
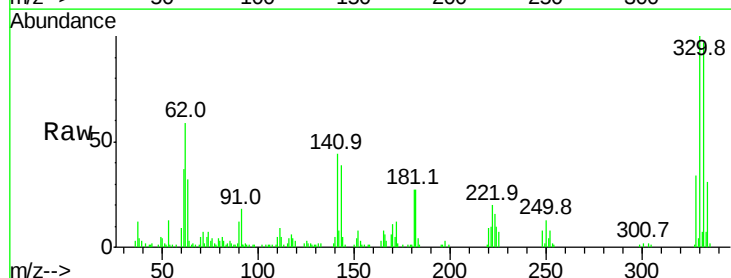
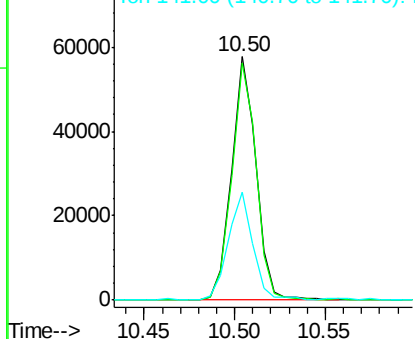
Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

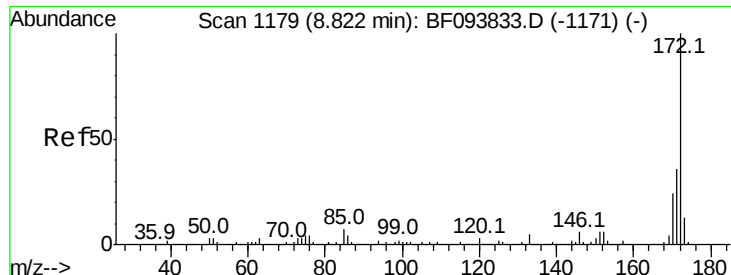


#41
 2,4,6-Tribromophenol
 Concen: 28.51 ng
 RT: 10.50 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF094158.D
 Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	115.0
141	44.4	31.4	47.2

Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





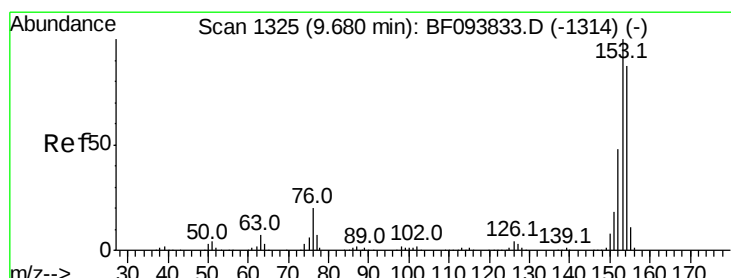
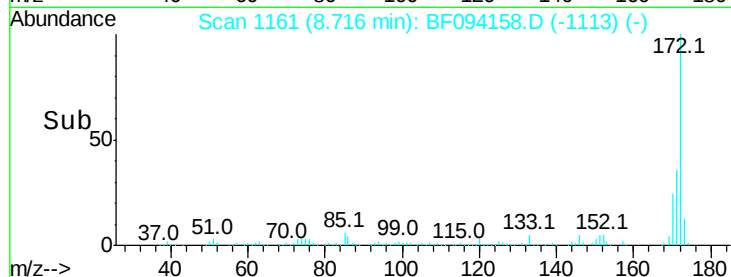
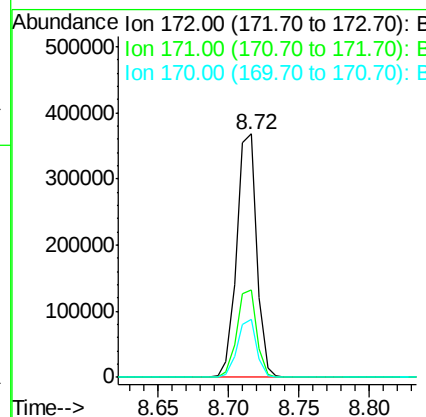
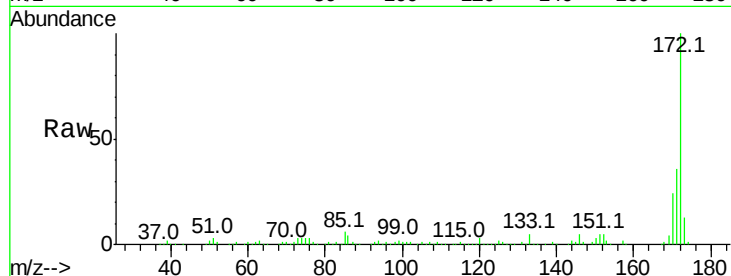
#44
2-Fluorobiphenyl
Concen: 22.95 ng
RT: 8.72 min Scan# 1161
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Instrument :
BNA_F
ClientSampleId :
E2-BB-7-8-SSWDL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	363314		
171	36.0		29.6	44.4
170	23.7		19.8	29.8

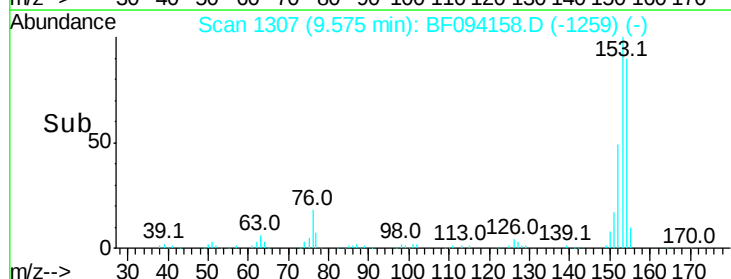
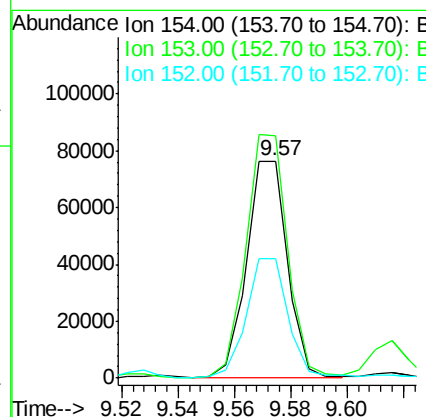
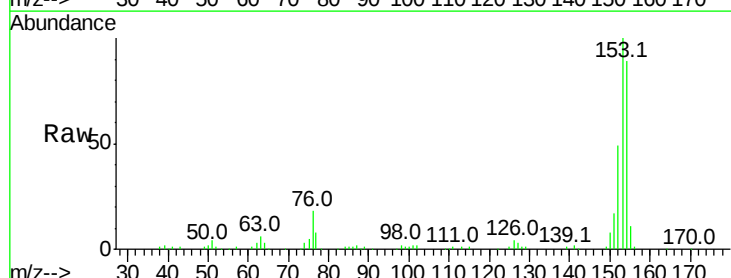
Manual Integrations
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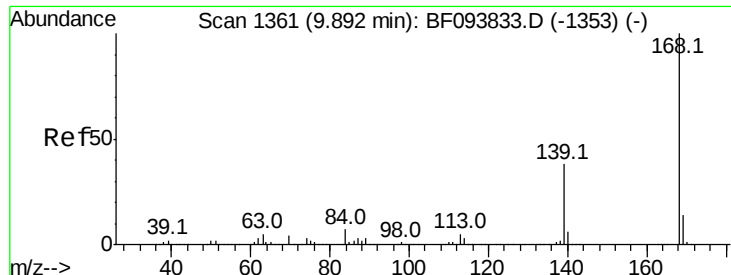
mohammad
4/4/2017 5:35:25 PM



#51
Acenaphthene
Concen: 5.21 ng
RT: 9.57 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	77084		
153	111.8		90.5	135.7
152	54.8		43.6	65.4





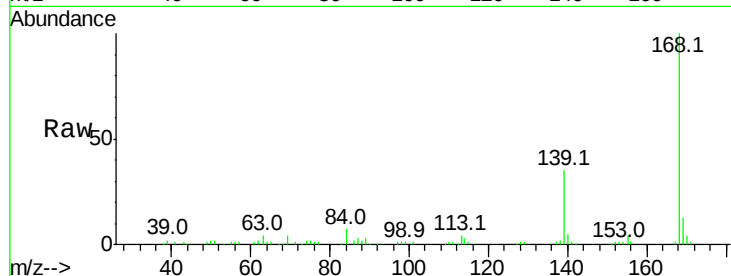
#54
Dibenzofuran
Concen: 4.54 ng
RT: 9.79 min Scan# 1343
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Instrument :
BNA_F
ClientSampleId :
E2-BB-7-8-SSWDL

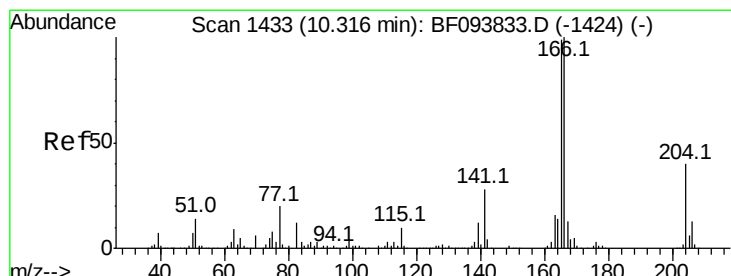
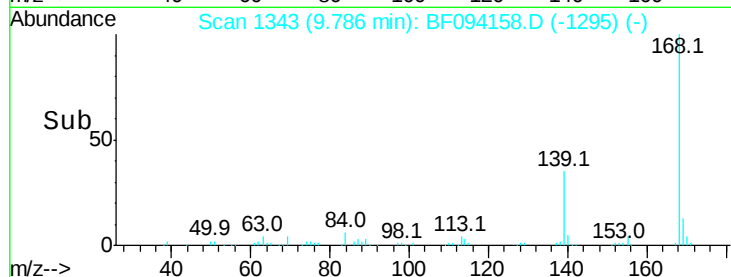
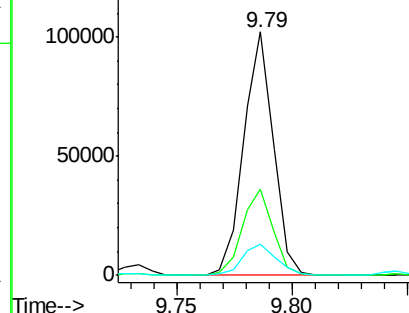
Tot Ion	Ratio	Lower	Upper
168	100		
139	35.2	30.6	45.8
169	12.9	10.8	16.2

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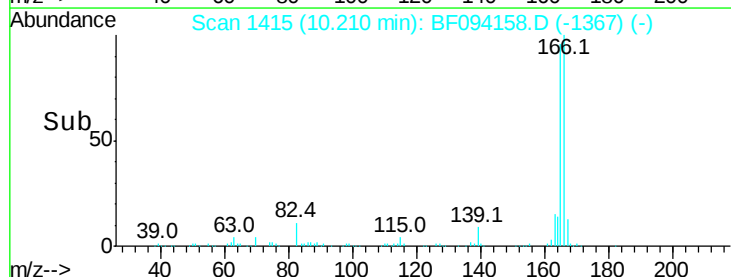
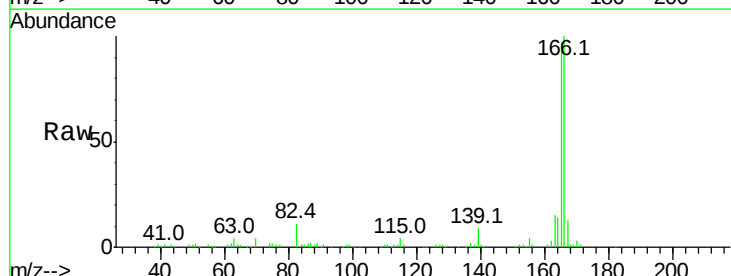
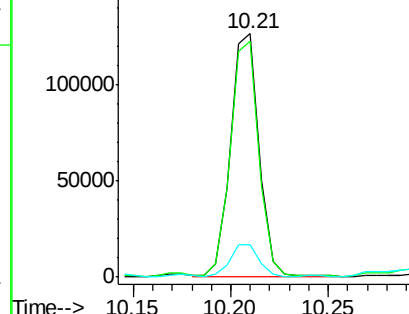
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

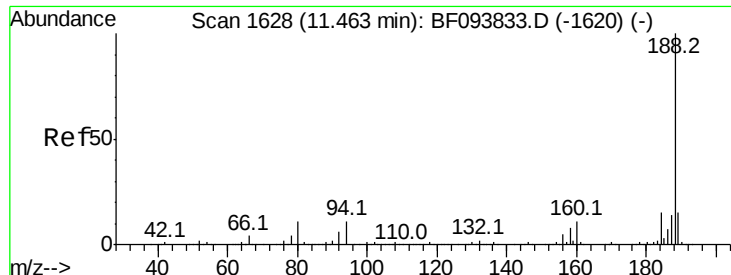


#57
Fluorene
Concen: 7.70 ng
RT: 10.21 min Scan# 1415
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.7	78.8	118.2
167	13.2	10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





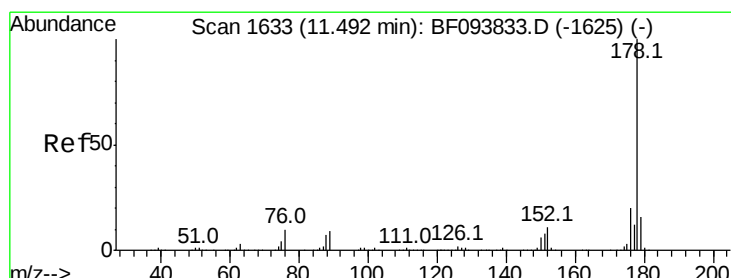
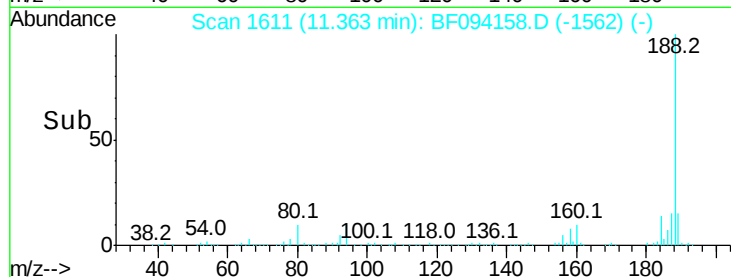
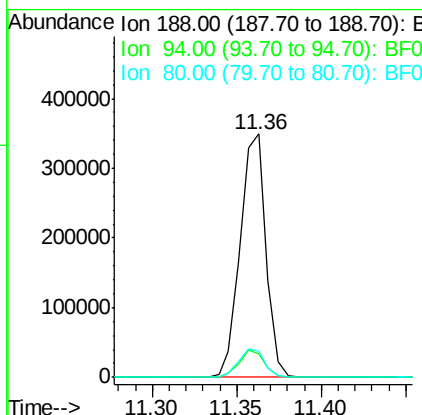
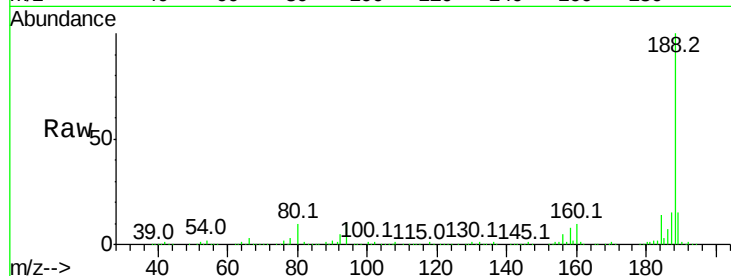
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 1611
Delta R.T. -0.01 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Instrument :
BNA_F
ClientSampleId :
E2-BB-7-8-SSWDL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	370258		
94	9.6		9.4	14.2
80	10.5		10.2	15.2

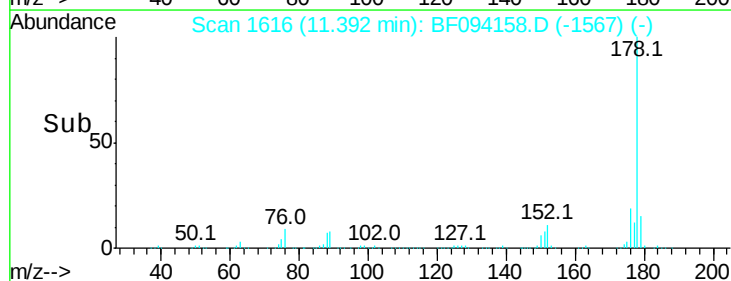
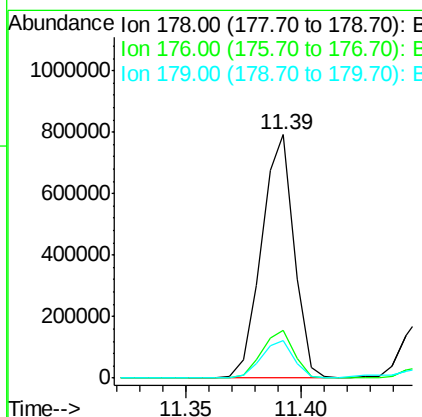
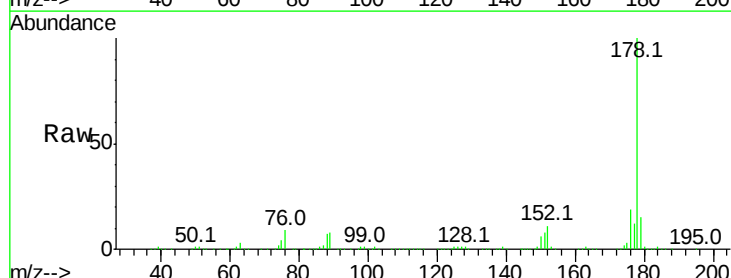
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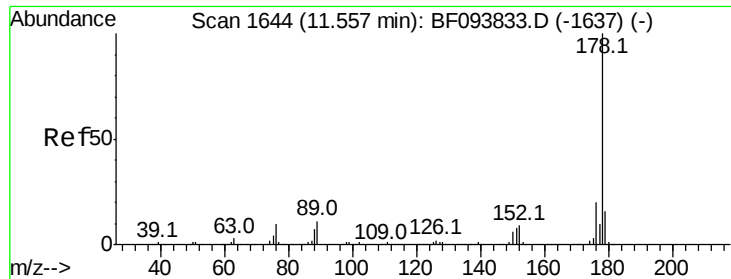
mohammad
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#70
Phenanthrene
Concen: 37.67 ng
RT: 11.39 min Scan# 1616
Delta R.T. -0.01 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	775925		
176	19.5		16.2	24.4
179	15.5		12.6	19.0





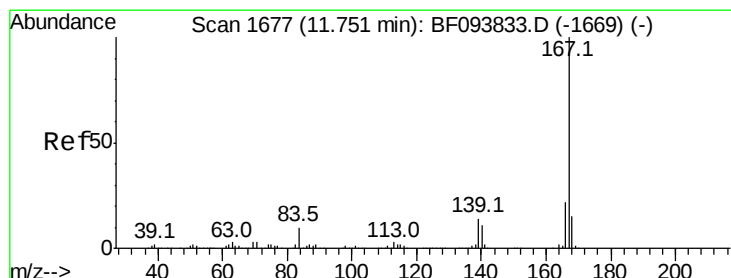
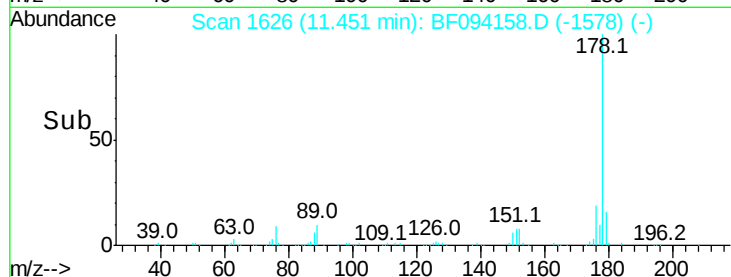
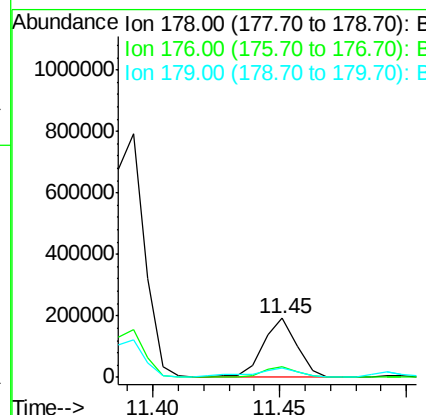
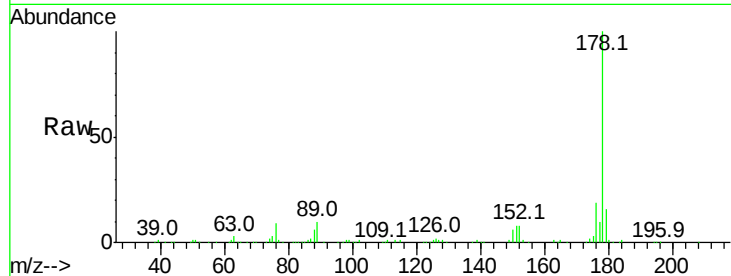
#71
 Anthracene
 Concen: 8.45 ng
 RT: 11.45 min Scan# 1626
 Delta R.T. -0.02 min
 Lab File: BF094158.D
 Acq: 4 Apr 2017 9:53

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-7-8-SSWDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.9	12.7	19.1

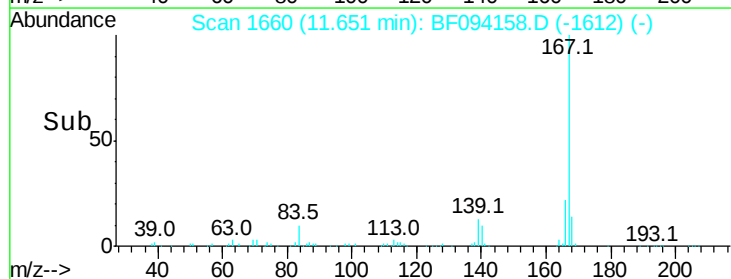
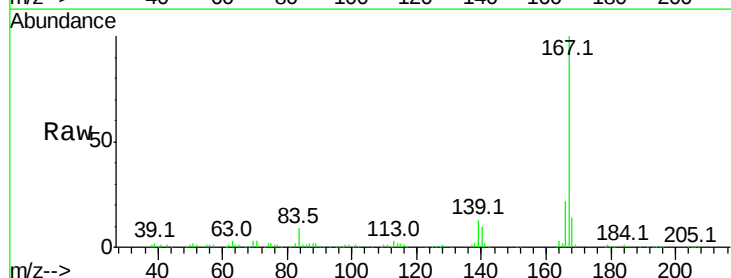
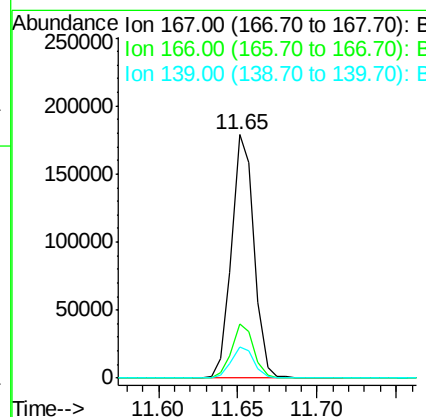
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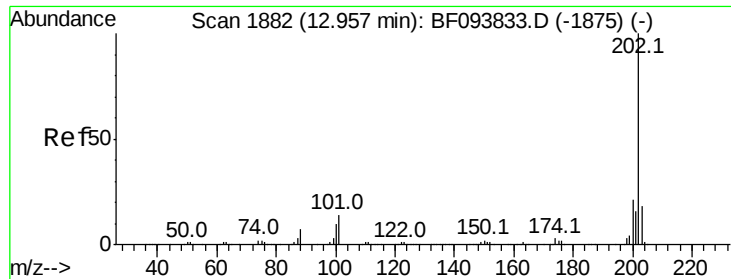
mohammad
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#72
 Carbazole
 Concen: 8.11 ng
 RT: 11.65 min Scan# 1660
 Delta R.T. -0.02 min
 Lab File: BF094158.D
 Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	18.1	27.1
139	13.0	11.7	17.5





#74

Fluoranthene

Concen: 28.02 ng

RT: 12.86 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

Instrument :

BNA_F

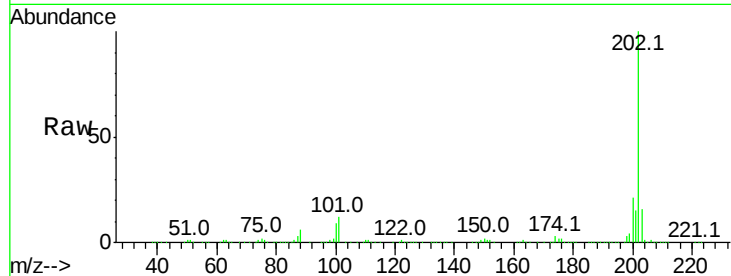
ClientSampleId :

E2-BB-7-8-SSWDL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	590976		
101	12.0	0.0	33.2	
203	16.5	0.0	38.1	

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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

12.86

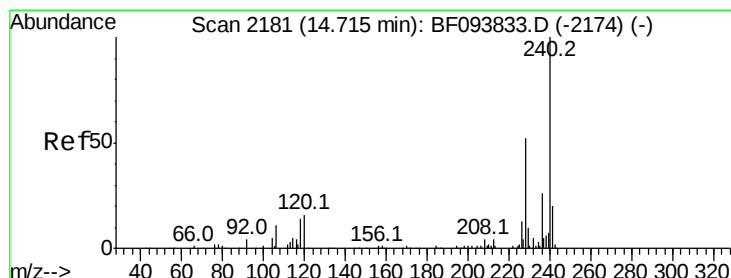
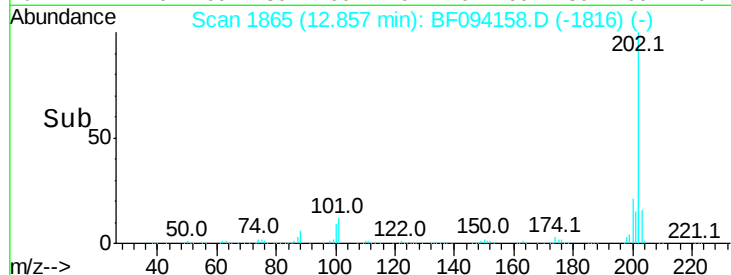
600000

400000

200000

0

Time-->



#75

Chrysene-d12

Concen: 20.00 ng

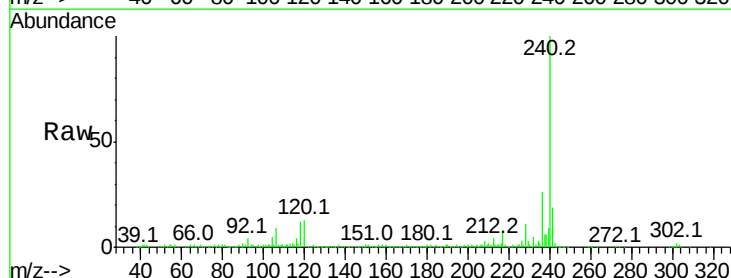
RT: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	311373		
120	13.4	5.8	8.8#	
236	25.7	20.5	30.7	



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

14.62

400000

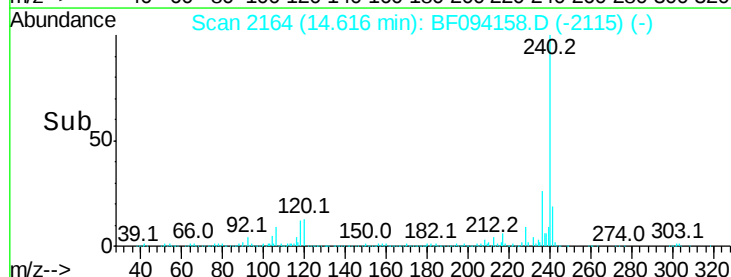
300000

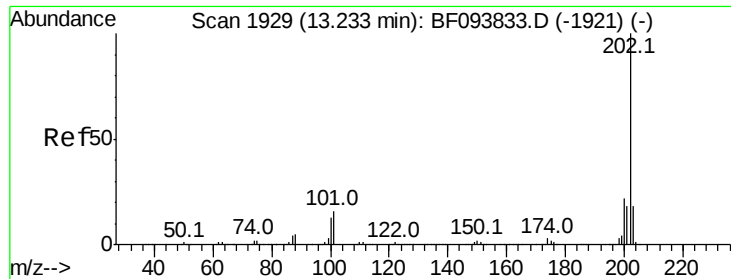
200000

100000

0

Time-->





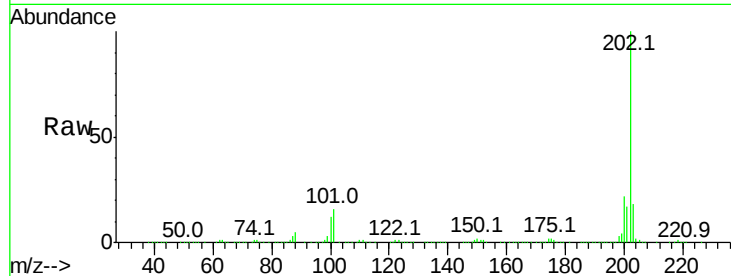
#77
Pvrene
Concen: 25.10 ng
RT: 13.13 min Scan# 1912
Delta R.T. -0.01 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Instrument :
BNA_F
ClientSampleId :
E2-BB-7-8-SSWDL

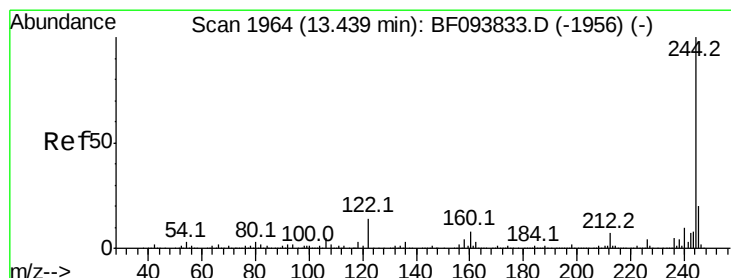
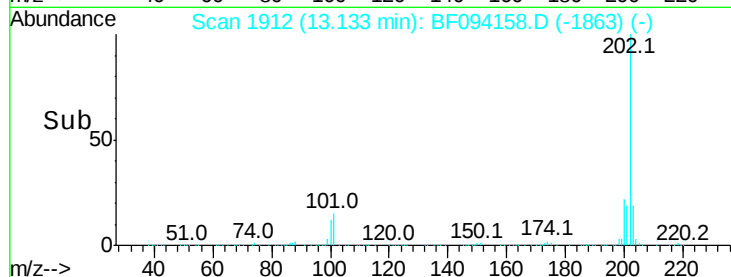
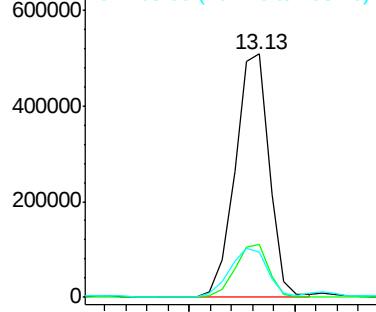
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.6	26.4
203	18.4	14.4	21.6

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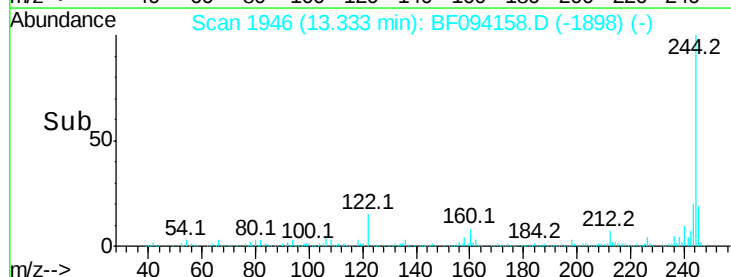
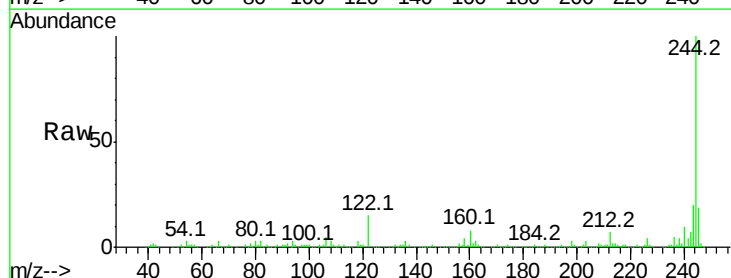
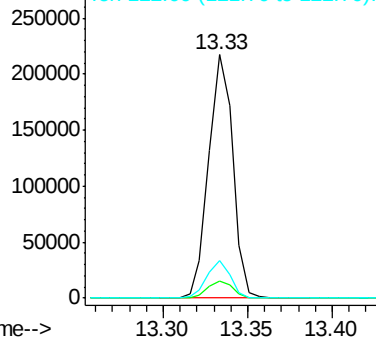
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

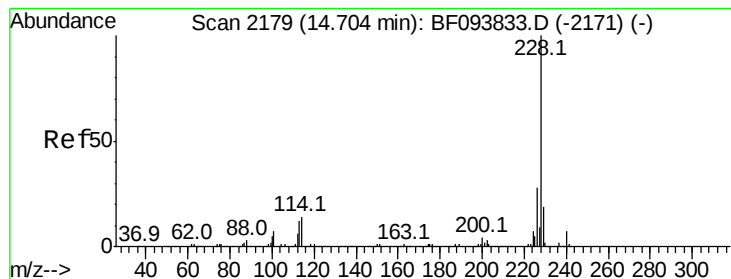


#78
Terphenyl-d14
Concen: 15.58 ng
RT: 13.33 min Scan# 1946
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	15.3	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: 12.79 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

Instrument :

BNA_F

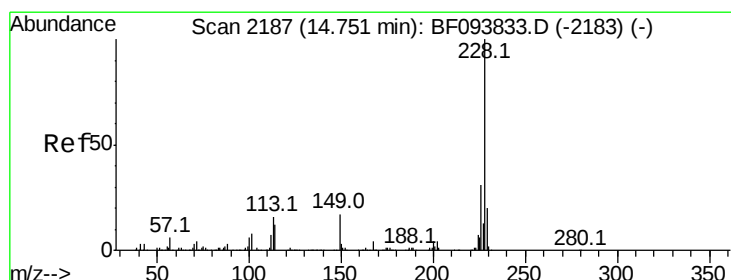
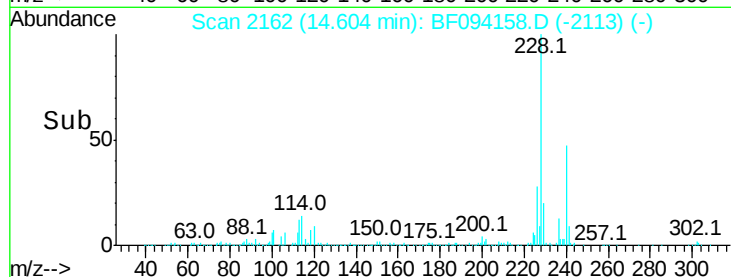
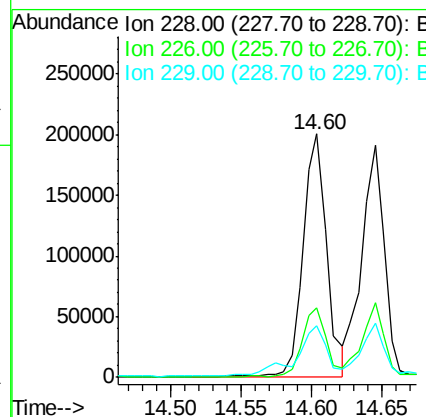
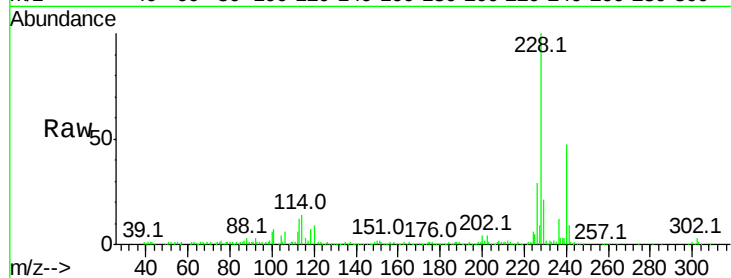
ClientSampleId :

E2-BB-7-8-SSWDL

Tot Ion:	228	Resp:	232177
Ion Ratio	Lower	Upper	
228	100		
226	28.8	22.6	33.8
229	21.2	16.3	24.5

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#82

Chrysene

Concen: 12.78 ng

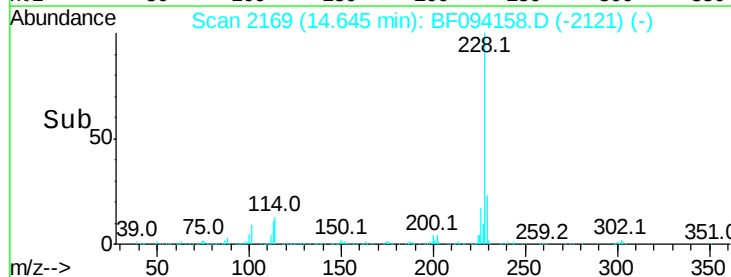
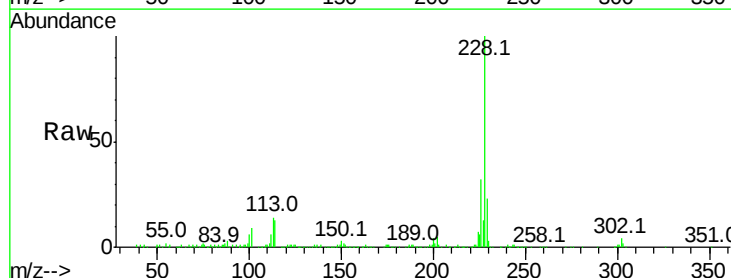
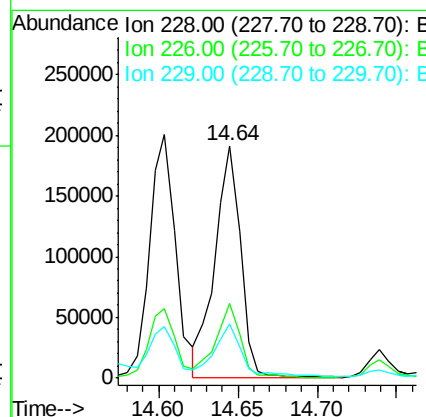
RT: 14.64 min Scan# 2169

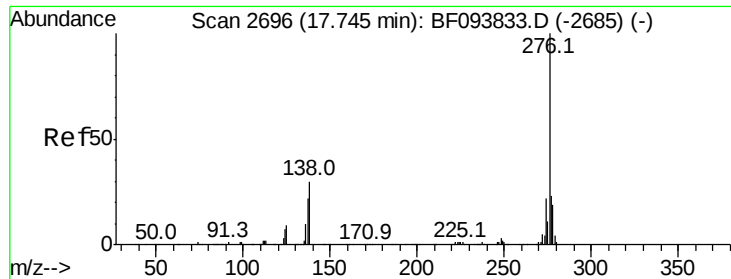
Delta R.T. -0.02 min

Lab File: BF094158.D

Acq: 4 Apr 2017 9:53

Tgt Ion:	228	Resp:	215381
Ion Ratio	Lower	Upper	
228	100		
226	32.3	24.9	37.3
229	23.2	15.8	23.6





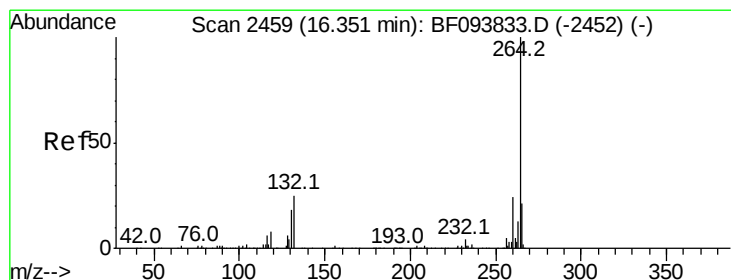
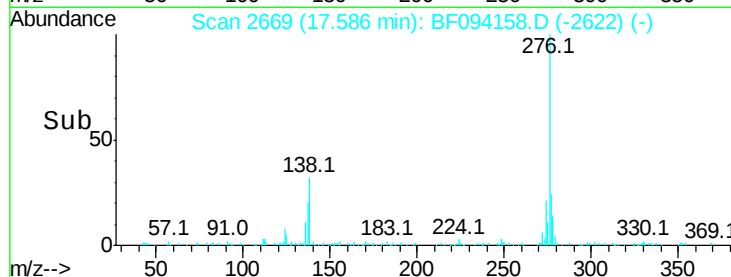
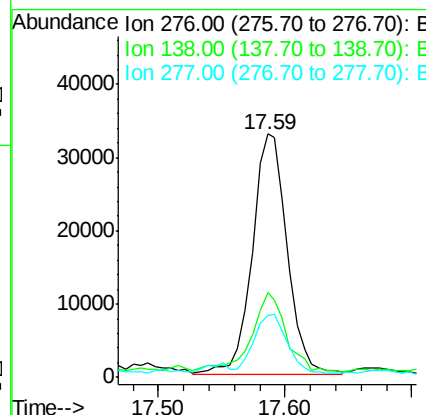
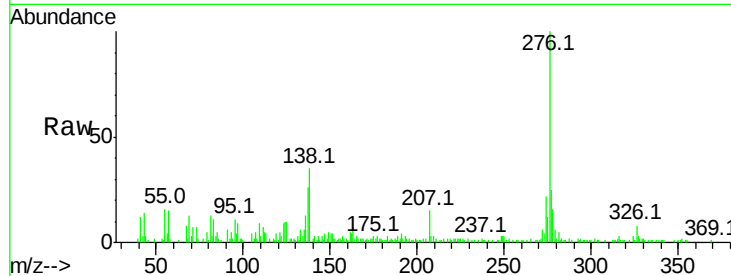
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.30 ng
 RT: 17.59 min Scan# 2669
 Delta R.T. -0.02 min
 Lab File: BF094158.D
 Acq: 4 Apr 2017 9:53

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-7-8-SSWDL

Tot Ion	Ratio	Lower	Upper
276	100		
138	33.7	27.8	41.6
277	24.7	20.2	30.4

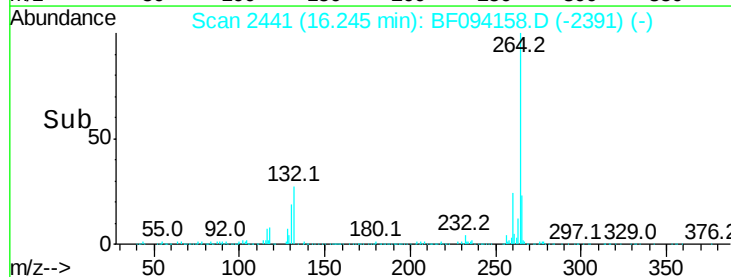
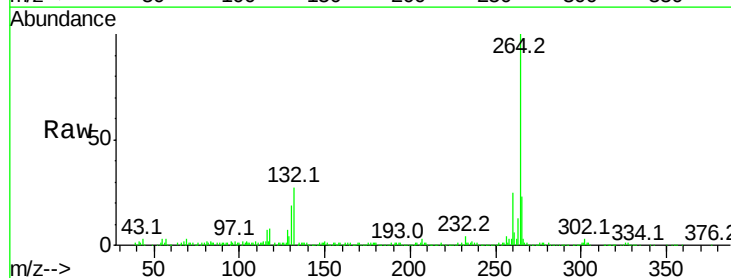
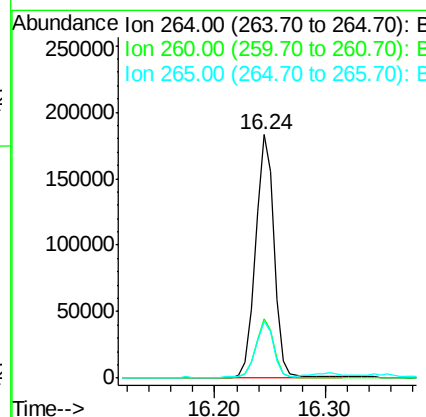
Manual Integrations
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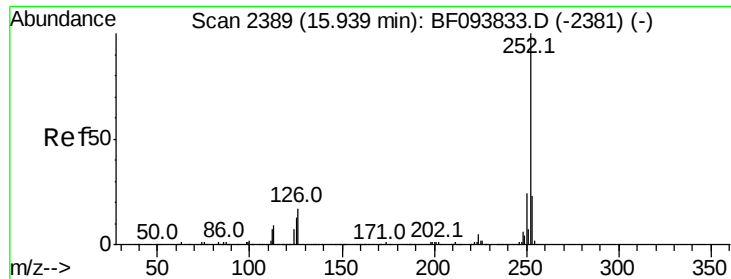
mohammad
 4/4/2017 5:35:25 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.24 min Scan# 2441
 Delta R.T. -0.01 min
 Lab File: BF094158.D
 Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	23.3	17.2	25.8





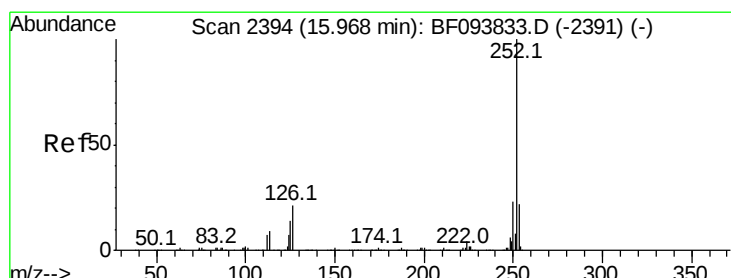
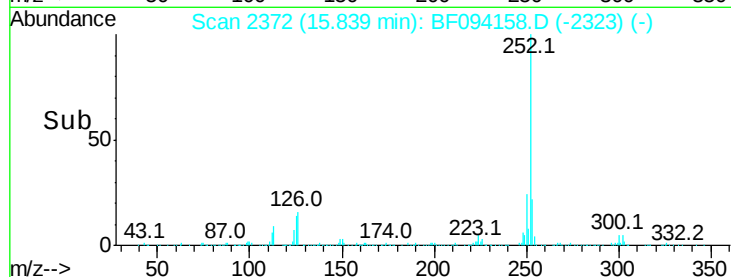
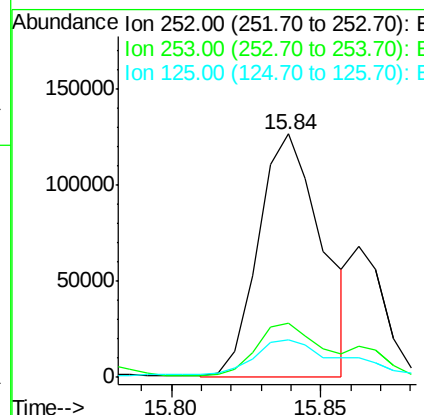
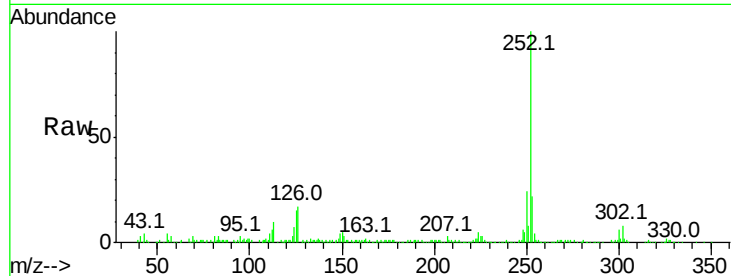
#87
Benzo(b)fluoranthene
Concen: 14.01 ng m
RT: 15.84 min Scan# 2372
Delta R.T. -0.01 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Instrument :
BNA_F
ClientSampleId :
E2-BB-7-8-SSWDL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	187545		
253	22.2		18.1	27.1
125	15.3		9.8	14.8

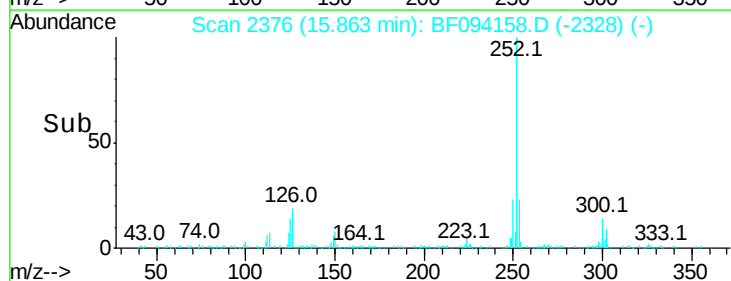
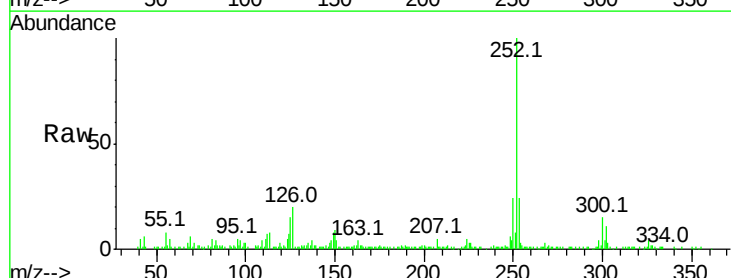
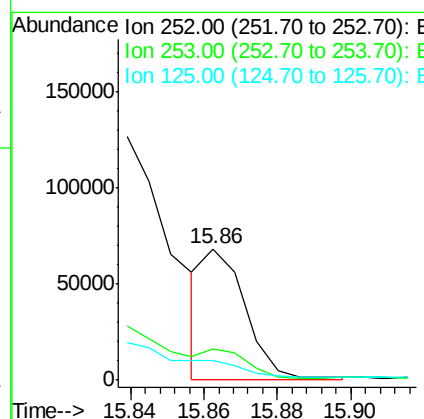
Manual Integrations
APPROVED

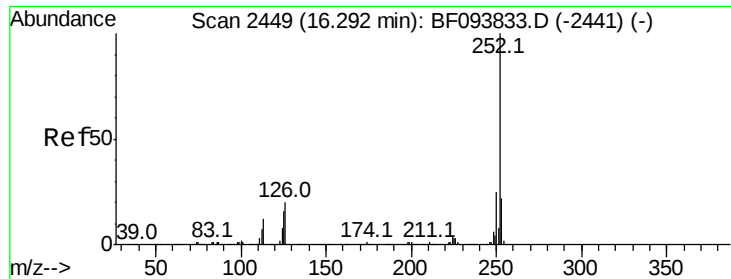
mohammad
4/4/2017 5:35:25 PM



#88
Benzo(k)fluoranthene
Concen: 4.17 ng m
RT: 15.86 min Scan# 2376
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	54558		
253	23.7		18.4	27.6
125	15.4		13.1	19.7





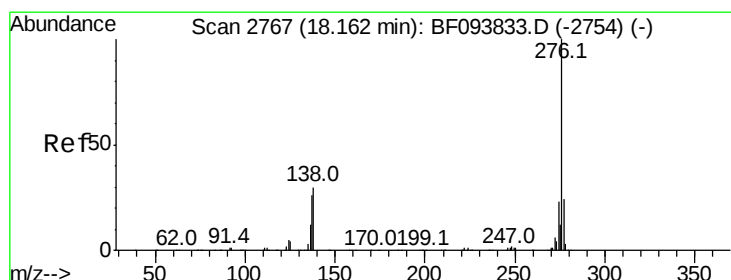
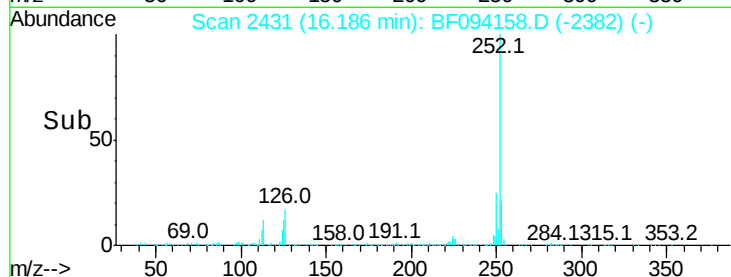
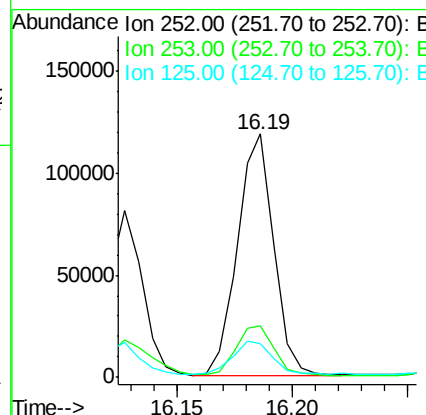
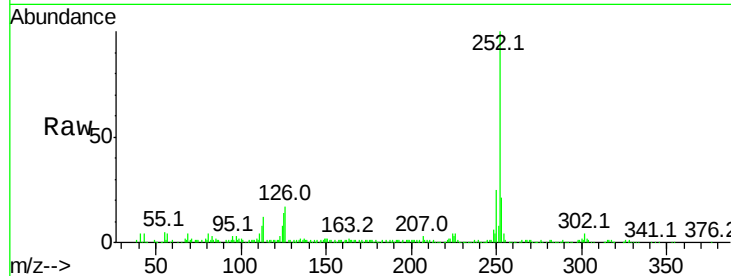
#89
Benzo(a)pyrene
Concen: 10.57 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Instrument :
BNA_F
ClientSampleId :
E2-BB-7-8-SSWDL

Tot Ion:	252	Resp:	130302
Ion Ratio	Lower	Upper	
252	100		
253	21.4	17.5	26.3
125	13.7	11.0	16.4

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:25 PM



#91
Benzo(g,h,i)perylene
Concen: 5.58 ng
RT: 17.99 min Scan# 2737
Delta R.T. -0.02 min
Lab File: BF094158.D
Acq: 4 Apr 2017 9:53

Tgt Ion:	276	Resp:	58687
Ion Ratio	Lower	Upper	
276	100		
277	23.8	18.6	28.0
138	29.6	25.4	38.0

