

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093226.D
 Acq On : 28 Feb 2017 1:14
 Operator : SJ/MA
 Sample : I1997-02
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-W4-WSW

Manual Integrations
 APPROVED

mohammad
 2/28/2017 2:35:22 PM

Quant Time: Feb 28 03:12:12 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 28 00:51:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	164653	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	595241	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	270831	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	395916	20.00	ng	0.00
75) Chrysene-d12	14.00	240	242865	20.00	ng	0.01
86) Perylene-d12	15.44	264	263570	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	1047241	109.12	ng	0.01
7) Phenol-d6	6.48	99	1374846	111.34	ng	0.00
23) Nitrobenzene-d5	7.39	82	787628	73.69	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	171086	87.34	ng	-0.01
44) 2-Fluorobiphenyl	9.18	172	1277343	85.45	ng	0.00
78) Terphenyl-d14	12.93	244	801713	77.56	ng	0.00

Target Compounds						Qvalue
31) Naphthalene	8.12	128	253511	8.40	ng	99
37) 2-Methylnaphthalene	8.82	142	94386	4.87	ng	97
45) 1,1'-Biphenyl	9.28	154	46569	2.37	ng	97
48) Acenaphthylene	9.72	152	256174	9.67	ng	97
49) Dimethylphthalate	9.58	163	399699	21.91	ng	98
51) Acenaphthene	9.89	154	409147	25.82	ng	96
54) Dibenzofuran	10.06	168	341316	16.11	ng	92
57) Fluorene	10.41	166	416383m	25.54	ng	
70) Phenanthrene	11.38	178	4394086m	193.72	ng	
71) Anthracene	11.43	178	1264830m	55.53	ng	
72) Carbazole	11.59	167	418109	19.20	ng	97
74) Fluoranthene	12.58	202	4541866	194.12	ng	97
77) Pvrene	12.81	202	4373849	240.65	ng	98
80) Benzo(a)anthracene	14.00	228	2572562	173.19	ng	97
82) Chrysene	14.03	228	1822744m	131.06	ng	
85) Indeno(1,2,3-cd)pyrene	16.85	276	1182788	109.80	ng	100
87) Benzo(b)fluoranthene	15.04	252	2681904m	154.59	ng	
88) Benzo(k)fluoranthene	15.05	252	620542m	41.43	ng	
89) Benzo(a)pvrene	15.39	252	1852427	123.44	ng	96
90) Dibenzo(a,h)anthracene	16.84	278	337344m	27.81	ng	
91) Benzo(q,h,i)perylene	17.29	276	1133286	92.50	ng	# 91

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

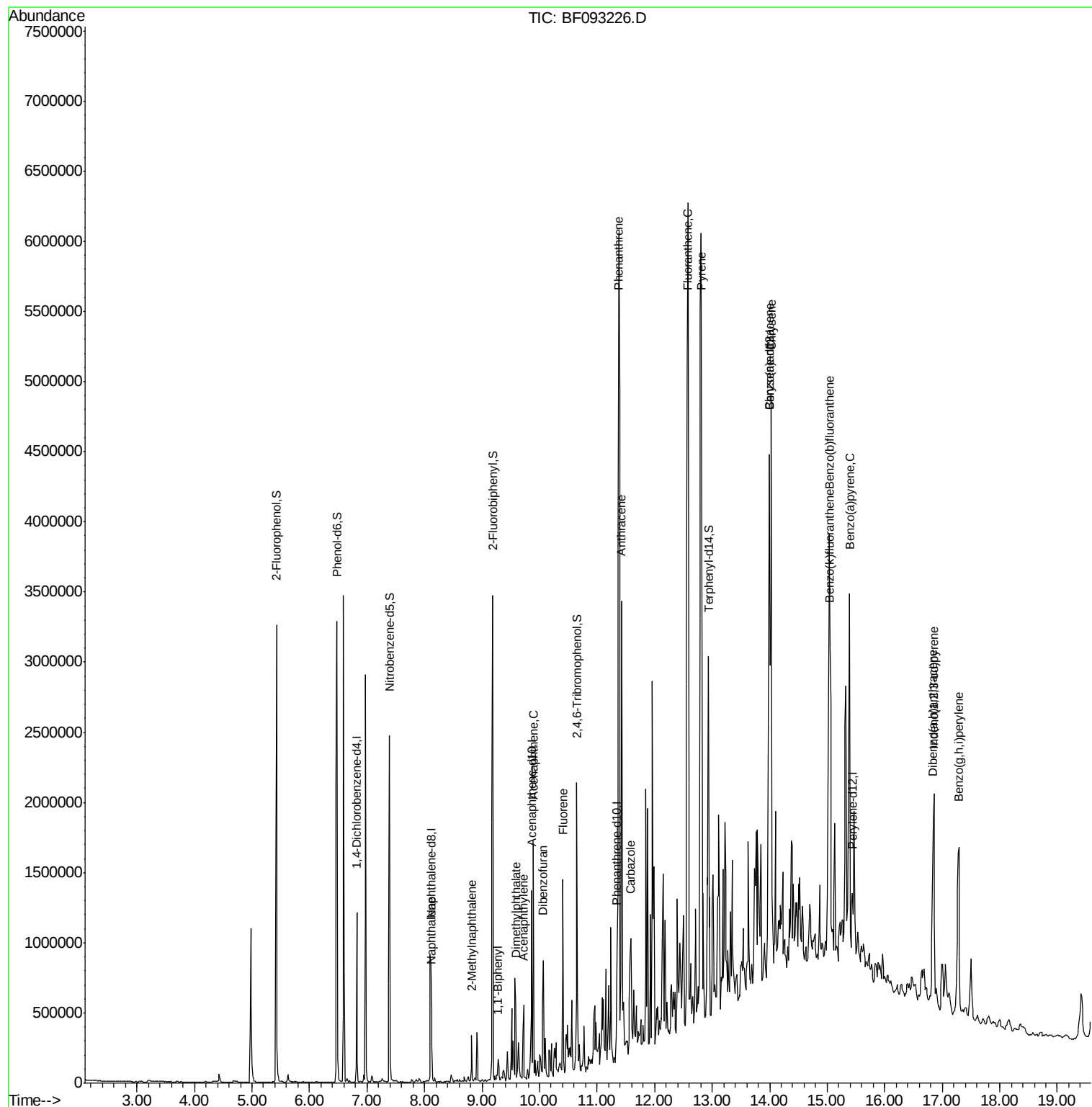
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
Data File : BF093226.D
Acq On : 28 Feb 2017 1:14
Operator : SJ/MA
Sample : I1997-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

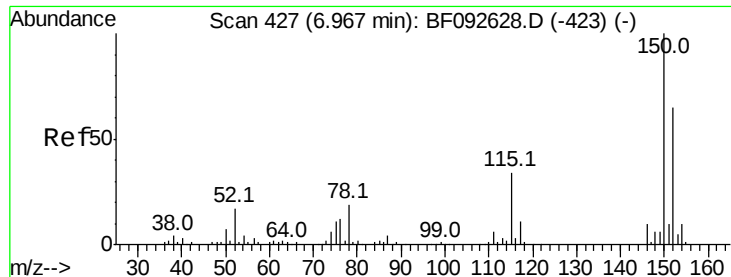
Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

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Quant Time: Feb 28 03:12:12 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 28 00:51:02 2017
Response via : Initial Calibration





#1

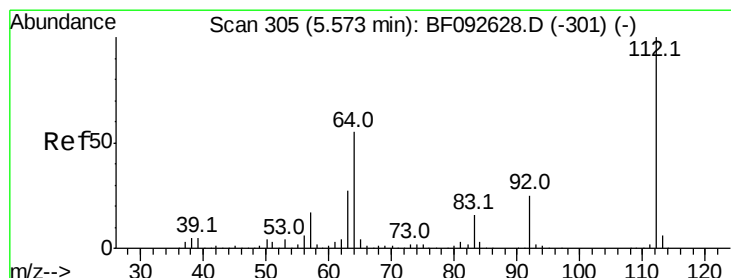
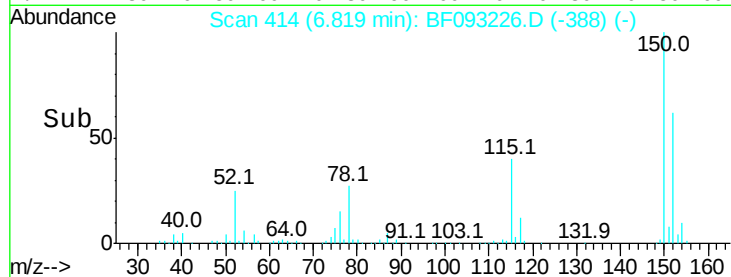
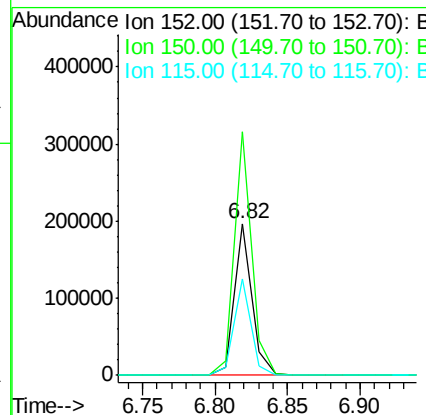
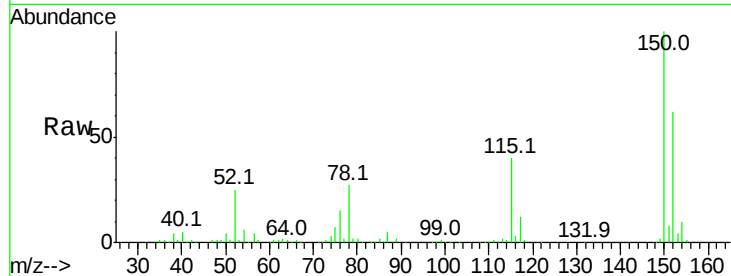
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 414
Delta R.T. 0.00 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.2	124.9	187.3
115	63.4	46.0	69.0

Manual Integrations
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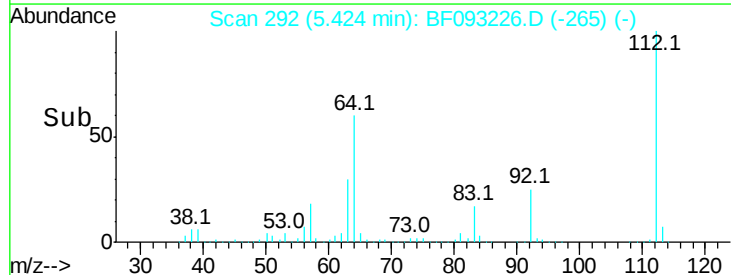
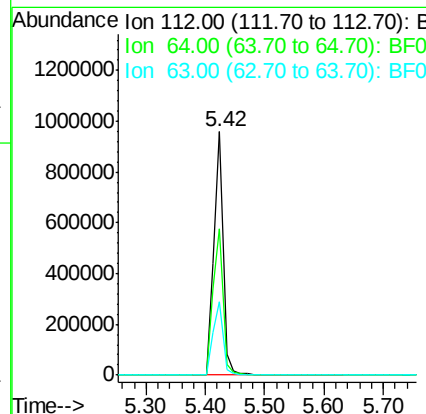
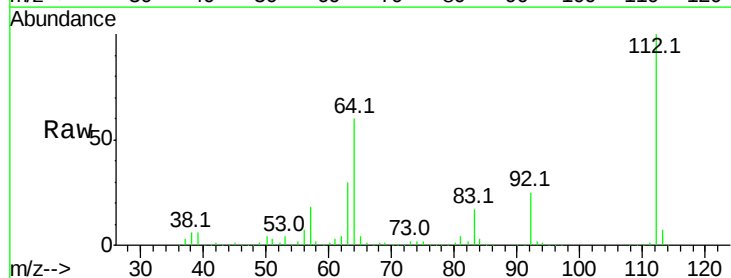
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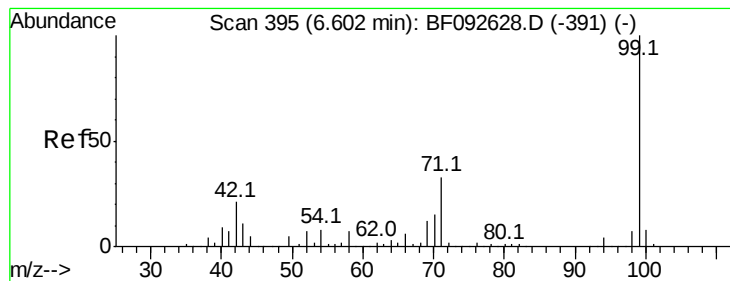


#5

2-Fluorophenol
Concen: 109.12 ng
RT: 5.42 min Scan# 292
Delta R.T. 0.01 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.1	46.1	69.1
63	30.0	23.8	35.6





#7

Phenol-d6

Concen: 111.34 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.00 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

Instrument :

BNA_F

ClientSampleId :

E2-W4-WSW

Tot Ion: 99 Resp: 1374846

Ion Ratio Lower Upper

99 100

42 17.7 15.6 23.4

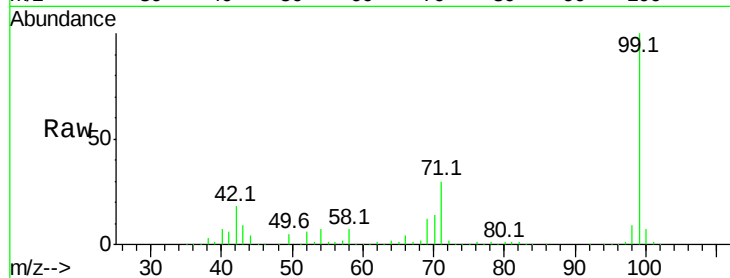
71 30.5 27.5 41.3

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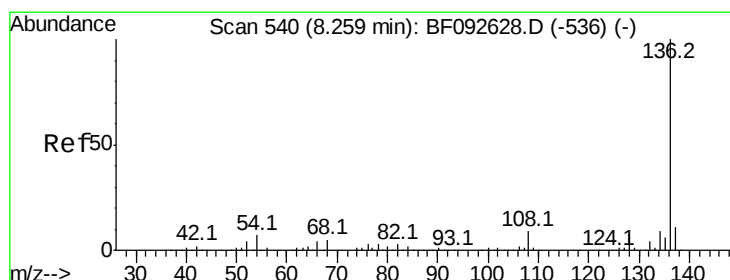
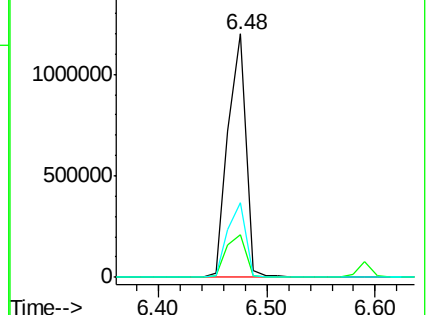
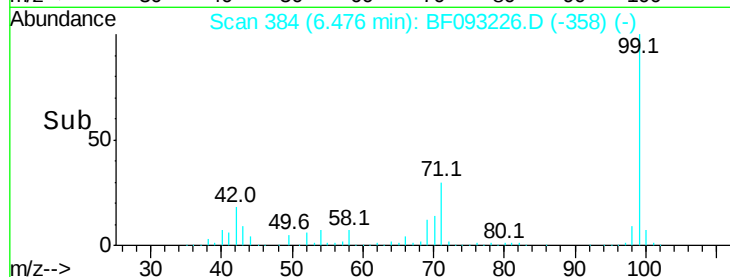
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.11 min Scan# 527

Delta R.T. 0.00 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

Tgt Ion: 136 Resp: 595241

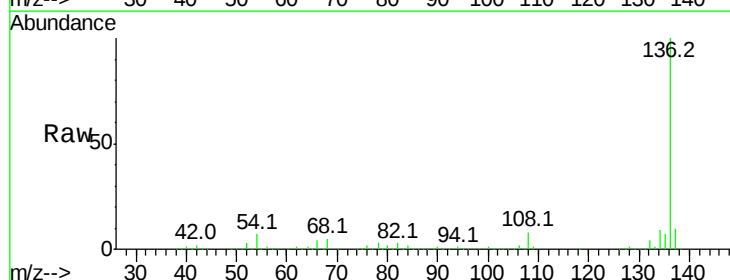
Ion Ratio Lower Upper

136 100

137 10.1 8.4 12.6

54 6.5 4.5 6.7

68 5.0 3.6 5.4

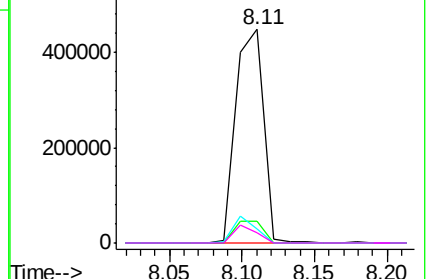
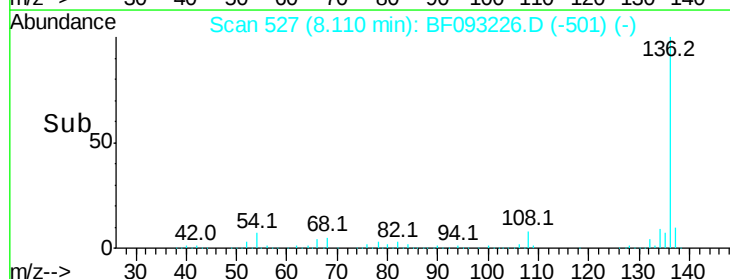


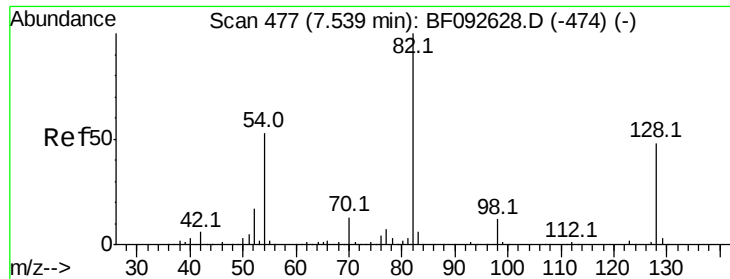
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





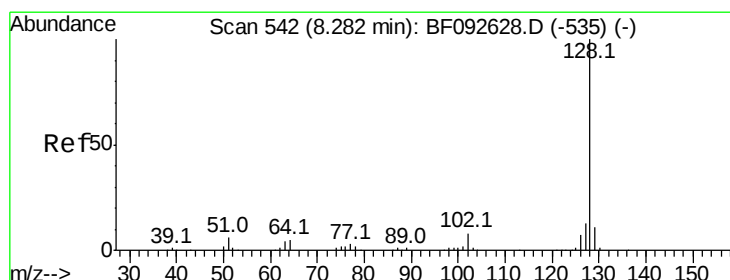
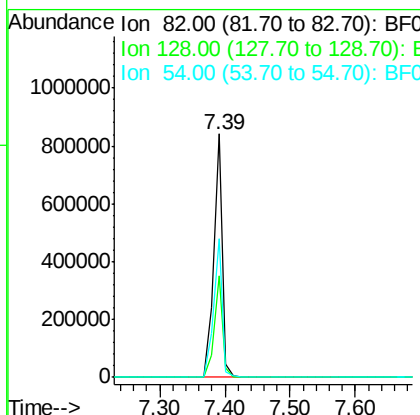
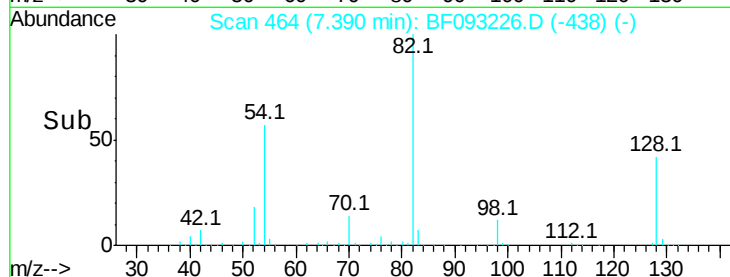
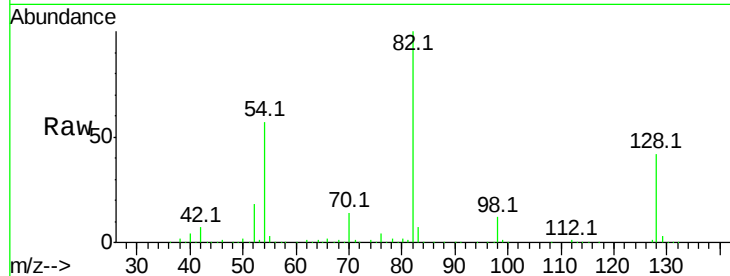
#23
 Nitrobenzene-d5
 Concen: 73.69 ng
 RT: 7.39 min Scan# 464
 Delta R.T. 0.00 min
 Lab File: BF093226.D
 Acq: 28 Feb 2017 1:14

Instrument :
 BNA_F
 ClientSampleId :
 E2-W4-WSW

Tot Ion:	82	Resp:	787628
Ion Ratio	Lower	Upper	
82	100		
128	41.7	34.6	52.0
54	56.9	39.5	59.3

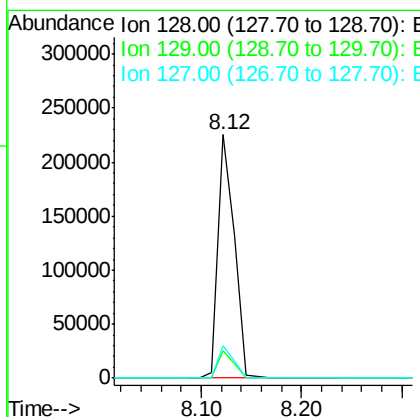
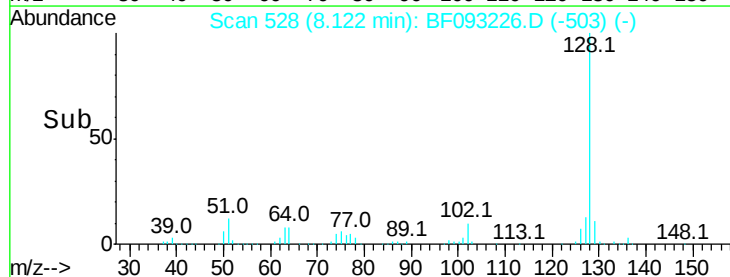
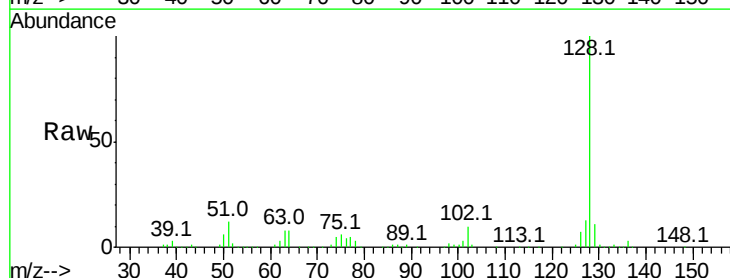
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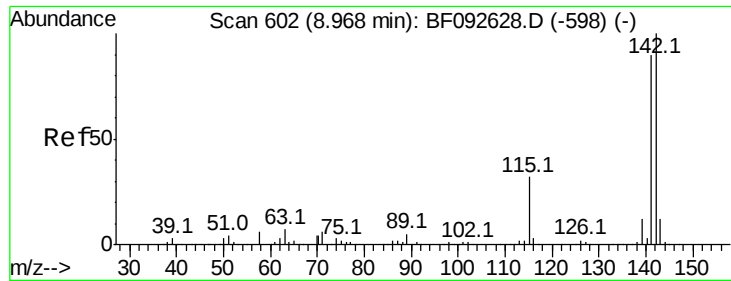
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#31
 Naphthalene
 Concen: 8.40 ng
 RT: 8.12 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: BF093226.D
 Acq: 28 Feb 2017 1:14

Tgt Ion:	128	Resp:	253511
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.5	14.3
127	13.4	10.8	16.2





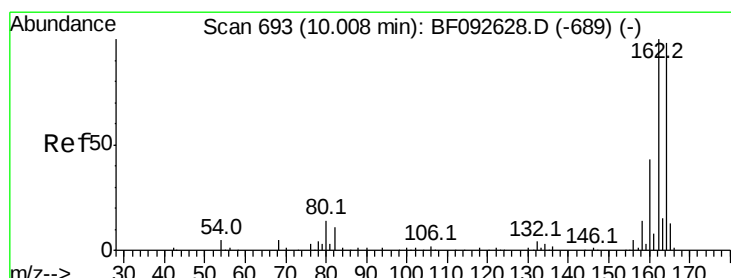
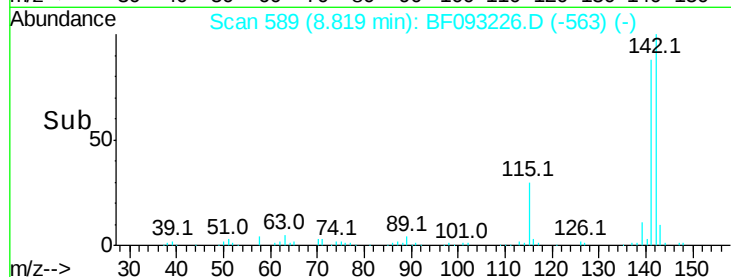
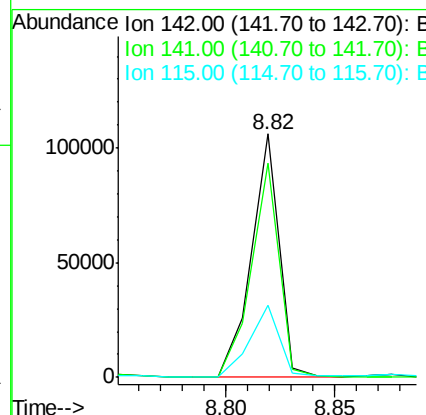
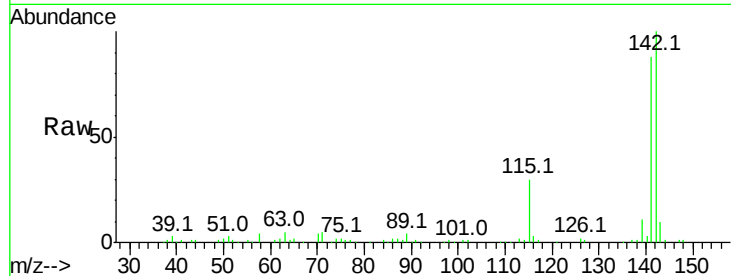
#37
2-Methylnaphthalene
Concen: 4.87 ng
RT: 8.82 min Scan# 589
Delta R.T. 0.00 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.0	106.6
115	29.9	28.3	42.5

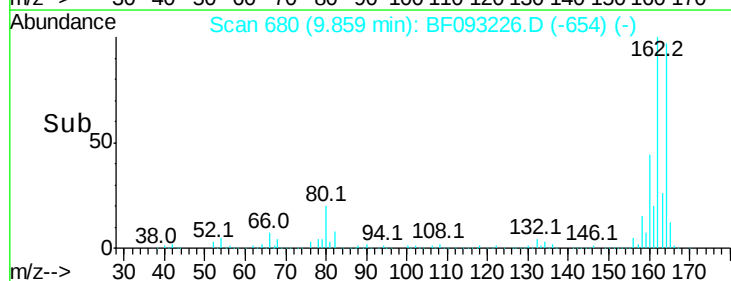
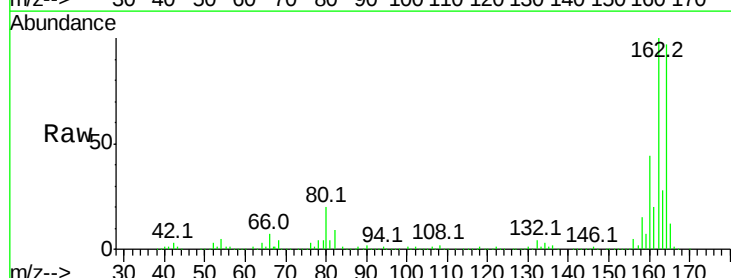
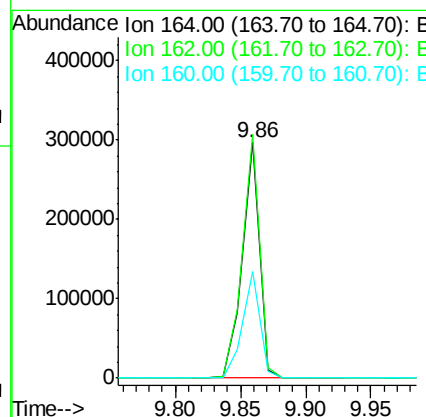
Manual Integrations
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 680
Delta R.T. 0.00 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	80.2	120.2
160	45.2	36.9	55.3





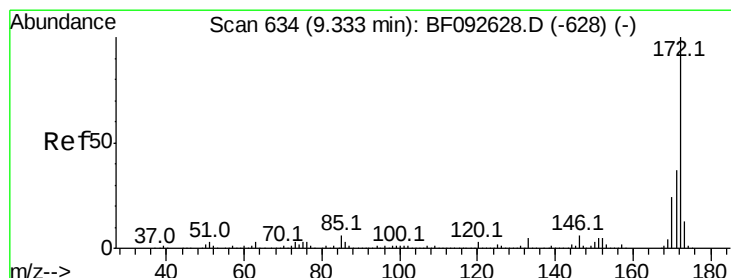
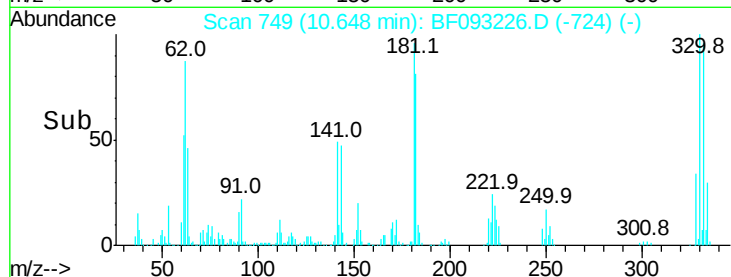
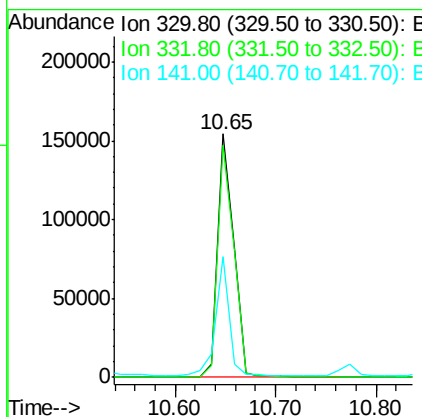
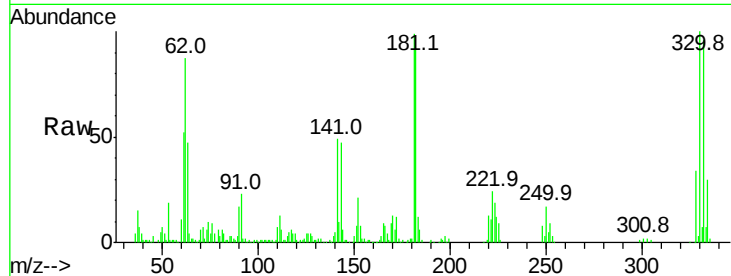
#41
 2,4,6-Tribromophenol
 Concen: 87.34 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.01 min
 Lab File: BF093226.D
 Acq: 28 Feb 2017 1:14

Instrument :
 BNA_F
 ClientSampleId :
 E2-W4-WSW

Tot Ion	Ratio	Resp	Lower	Upper
330	100	171086		
332	96.6	77.4	116.2	
141	42.0	34.1	51.1	

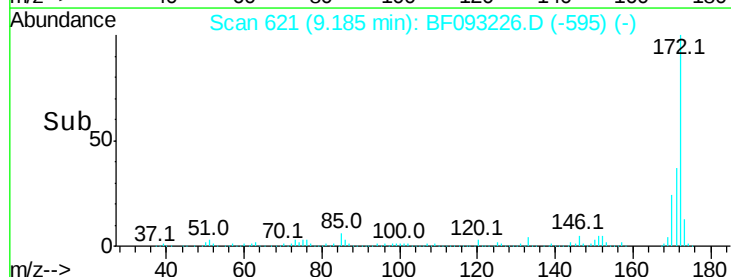
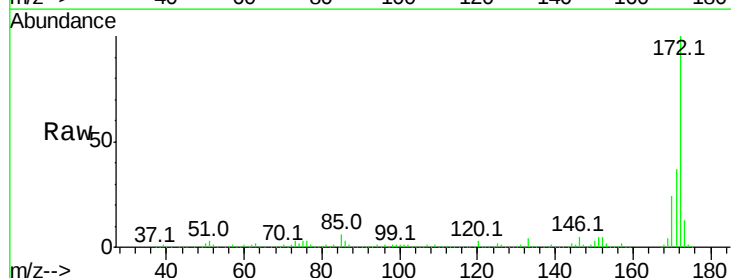
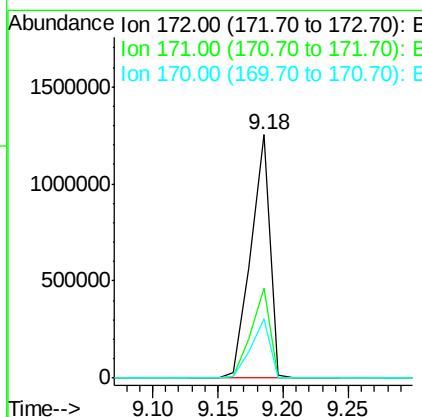
Manual Integrations
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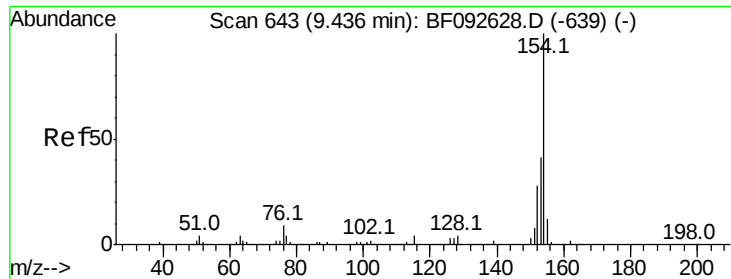
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#44
 2-Fluorobiphenyl
 Concen: 85.45 ng
 RT: 9.18 min Scan# 621
 Delta R.T. 0.00 min
 Lab File: BF093226.D
 Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1277343		
171	36.8	29.4	44.0	
170	24.3	20.2	30.4	





#45

1,1'-Biphenyl

Concen: 2.37 ng

RT: 9.28 min Scan# 629

Delta R.T. -0.01 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

Instrument :

BNA_F

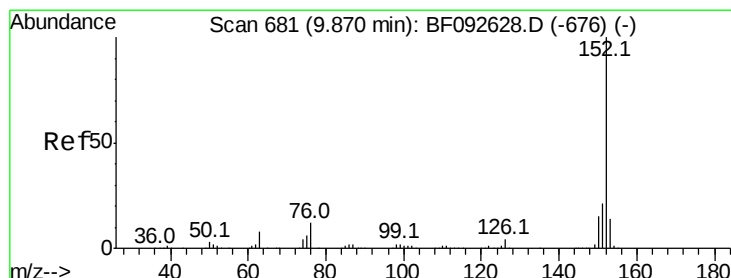
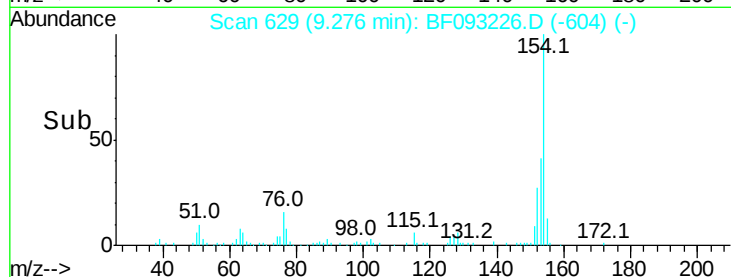
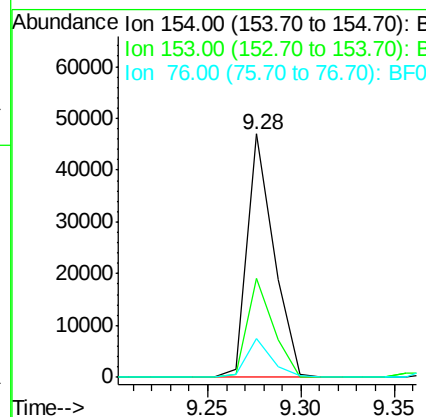
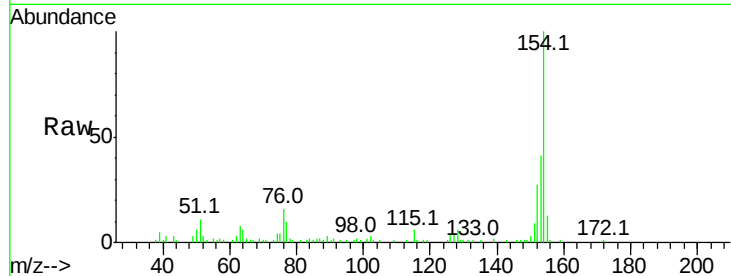
ClientSampleId :

E2-W4-WSW

Tot Ion:	154	Resp:	46569
Ion Ratio	Lower	Upper	
154	100		
153	40.6	20.9	60.9
76	16.0	0.0	30.5

Manual Integrations
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#48

Acenaphthylene

Concen: 9.67 ng

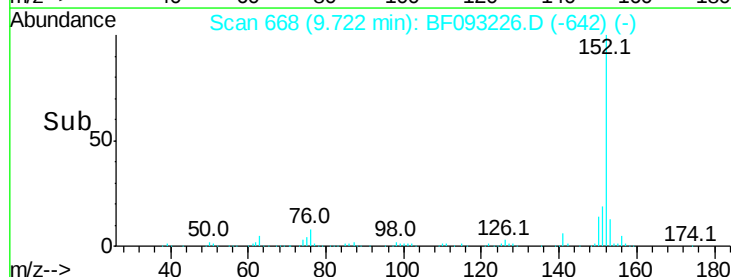
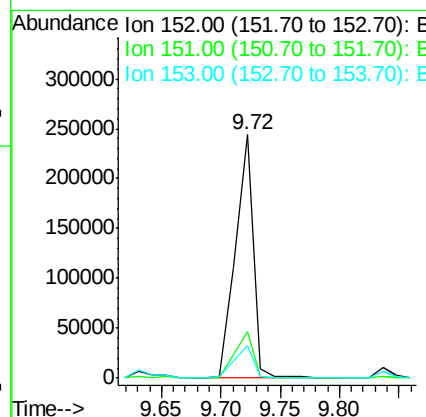
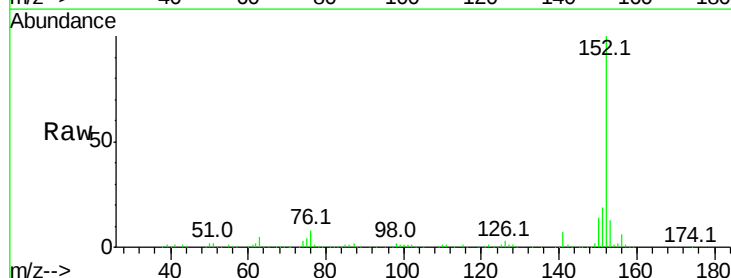
RT: 9.72 min Scan# 668

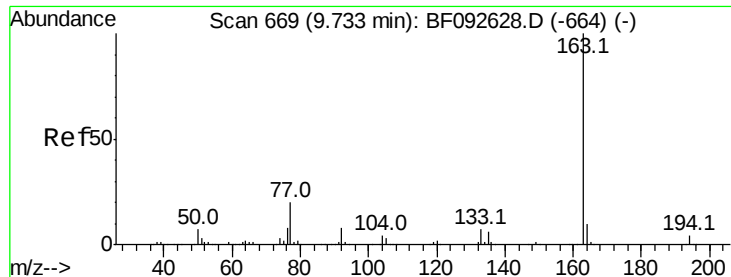
Delta R.T. 0.00 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

Tgt Ion:	152	Resp:	256174
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.9	25.3
153	13.3	11.4	17.2





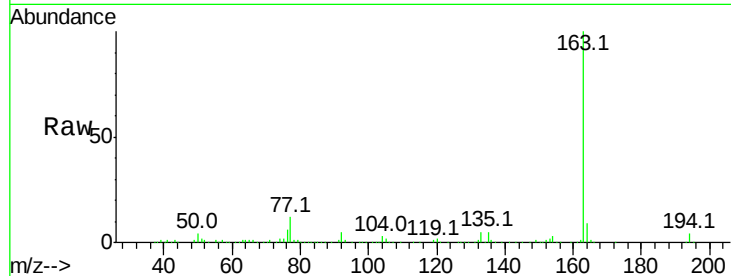
#49
Dimethylphthalate
Concen: 21.91 ng
RT: 9.58 min Scan# 656
Delta R.T. -0.01 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	4.3	3.0	4.4
164	9.4	8.0	12.0

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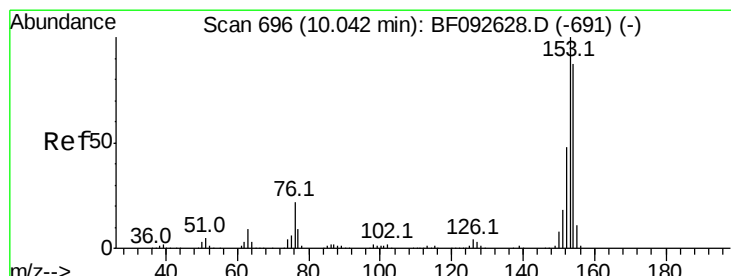
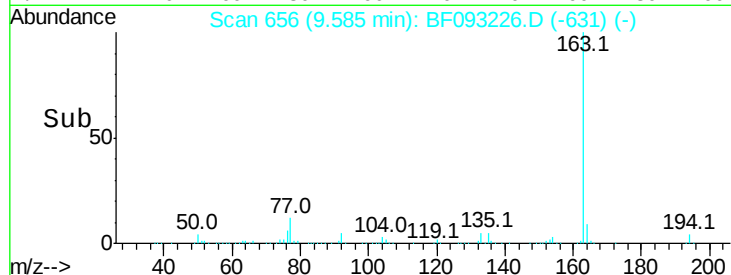
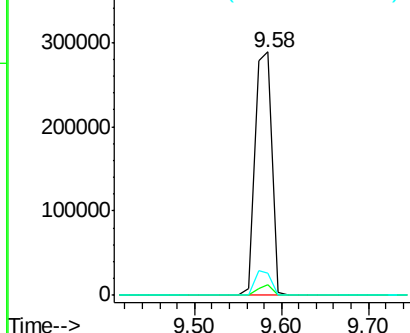


Abundance

Ion 163.00 (162.70 to 163.70): E

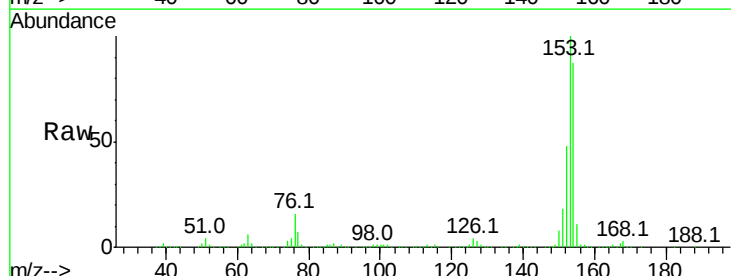
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 25.82 ng
RT: 9.89 min Scan# 683
Delta R.T. 0.00 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	115.6	88.6	133.0
152	55.1	41.6	62.4

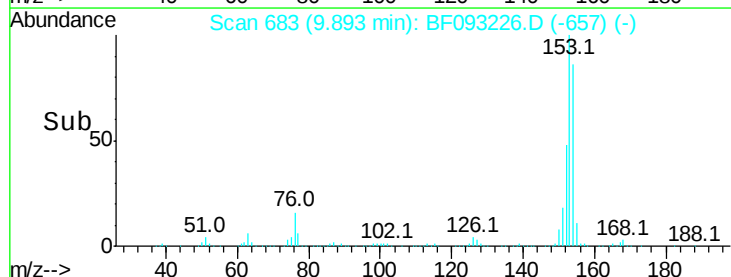
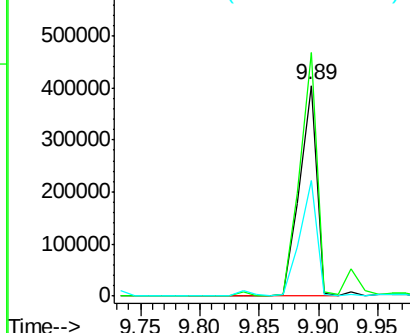


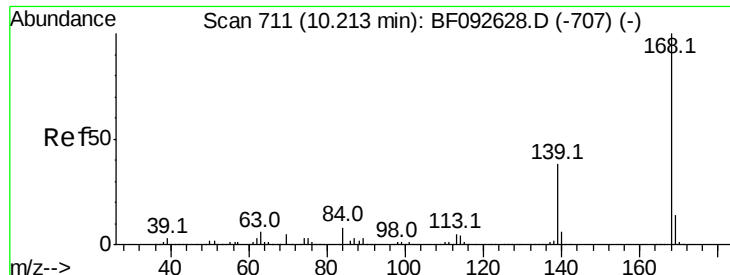
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





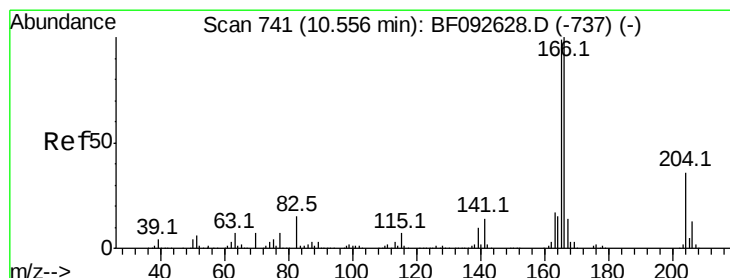
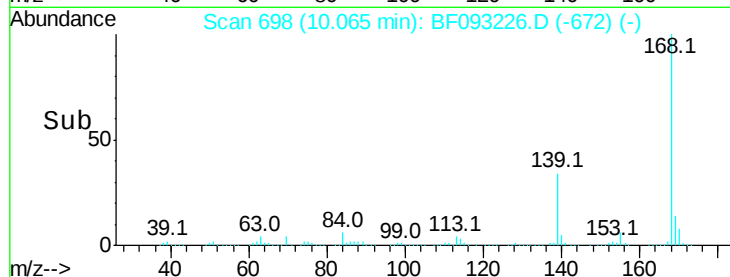
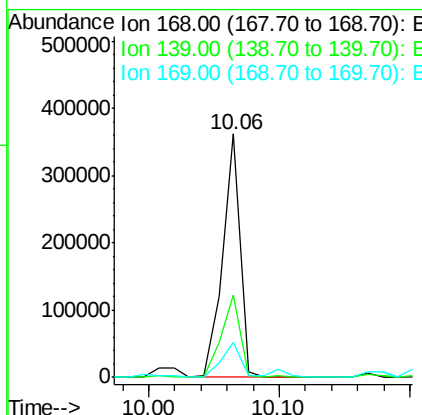
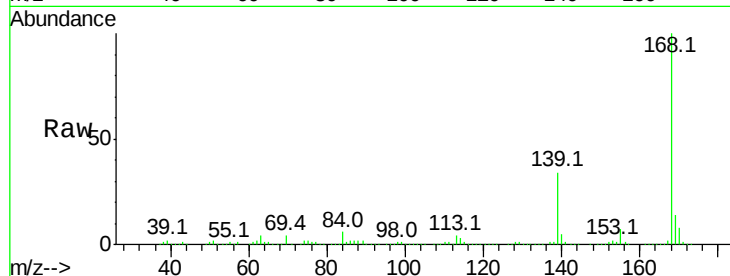
#54
Dibenzenofuran
Concen: 16.11 ng
RT: 10.06 min Scan# 698
Delta R.T. 0.00 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

Tot Ion	Ratio	Resp	Lower	Upper
168	100	341316		
139	33.8	32.6	49.0	
169	14.2	11.3	16.9	

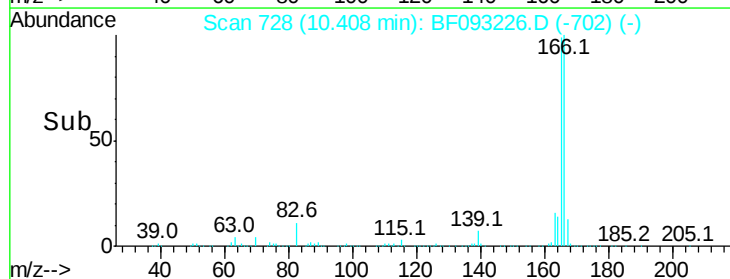
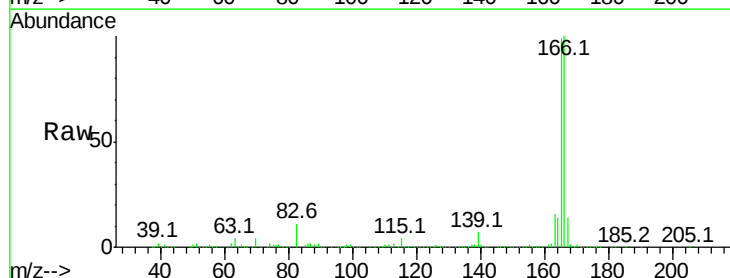
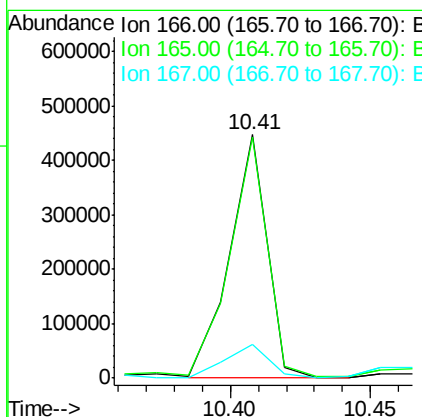
Manual Integrations
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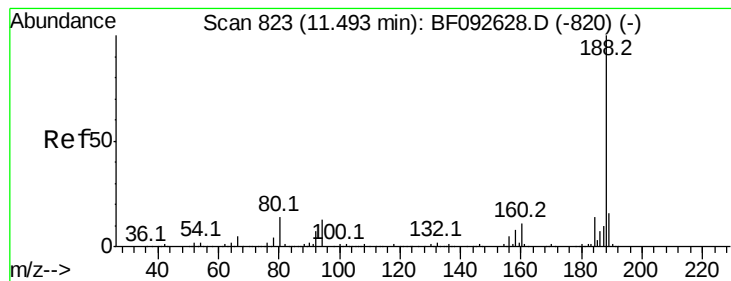
mohammad
2/28/2017 2:35:22 PM



#57
Fluorene
Concen: 25.54 ng m
RT: 10.41 min Scan# 728
Delta R.T. 0.00 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	416383		
165	99.0	77.8	116.8	
167	14.1	10.8	16.2	





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.35 min Scan# 810

Delta R.T. 0.00 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

Instrument :

BNA_F

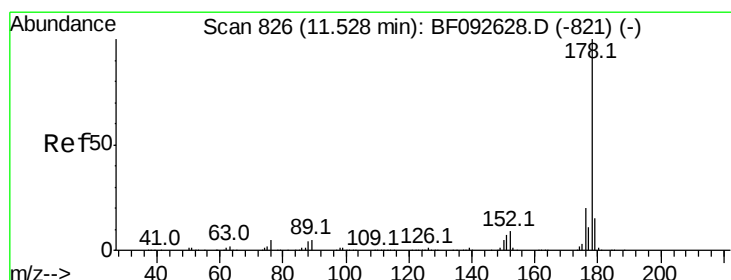
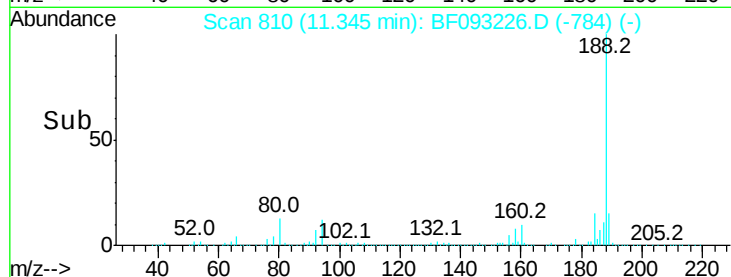
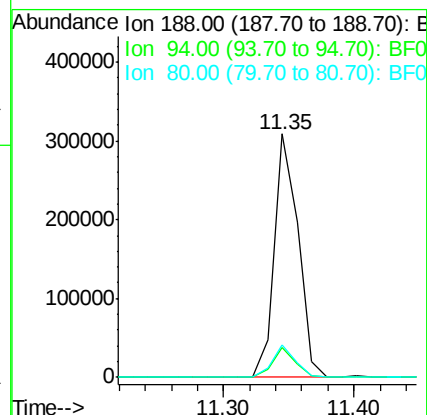
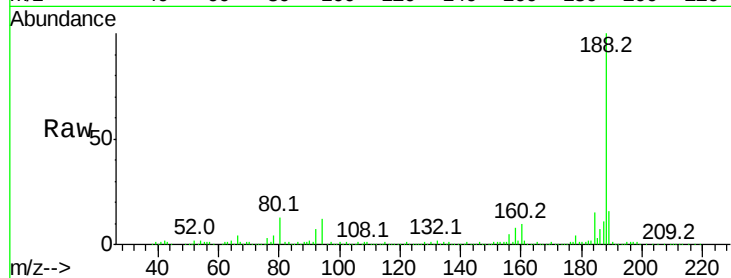
ClientSampleId :

E2-W4-WSW

Tot Ion:	188	Resp:	395916
Ion Ratio	Lower	Upper	
188	100		
94	12.5	10.0	15.0
80	13.4	11.2	16.8

Manual Integrations
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#70

Phenanthrene

Concen: 193.72 ng m

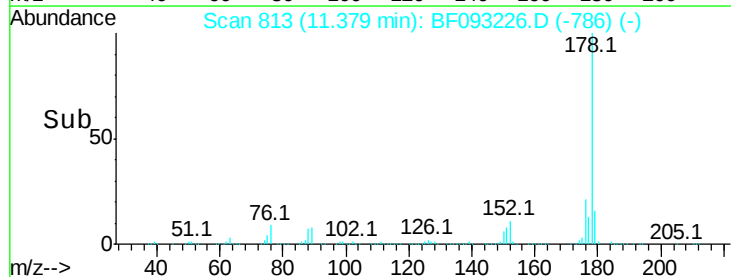
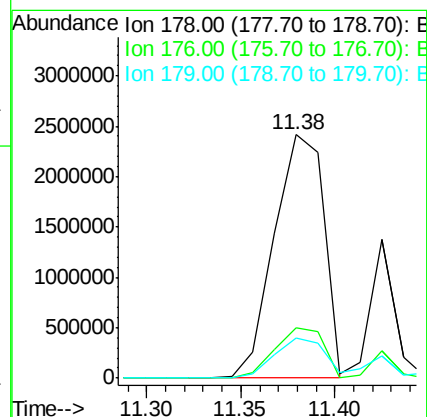
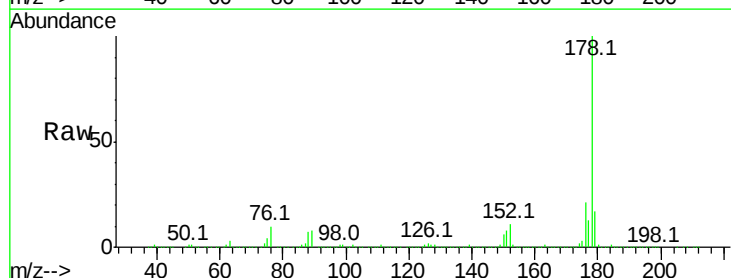
RT: 11.38 min Scan# 813

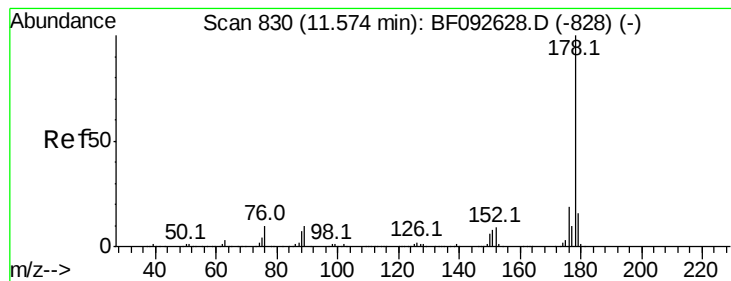
Delta R.T. 0.01 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

Tgt Ion:	178	Resp:	4394086
Ion Ratio	Lower	Upper	
178	100		
176	20.8	16.6	25.0
179	16.5	12.8	19.2





#71
 Anthracene
 Concen: 55.53 ng m
 RT: 11.43 min Scan# 817
 Delta R.T. 0.00 min
 Lab File: BF093226.D
 Acq: 28 Feb 2017 1:14

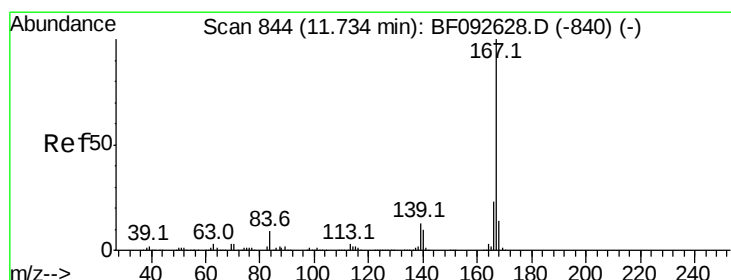
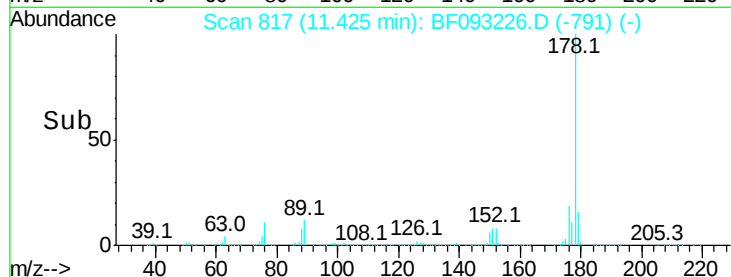
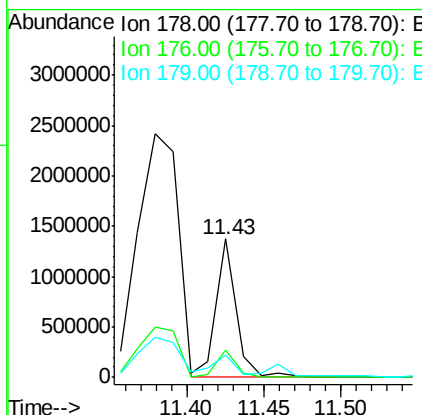
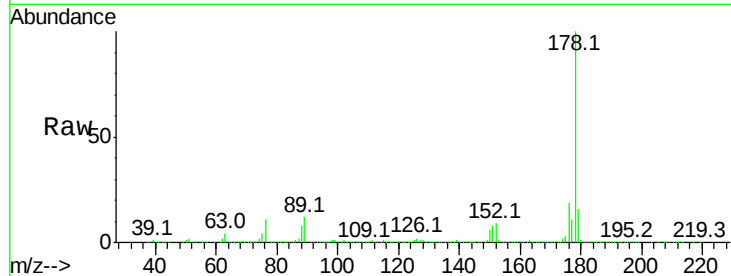
Instrument :
 BNA_F
 ClientSampleId :
 E2-W4-WSW

Tot Ion:178 Resp: 1264830

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	16.0	13.2	19.8

Manual Integrations
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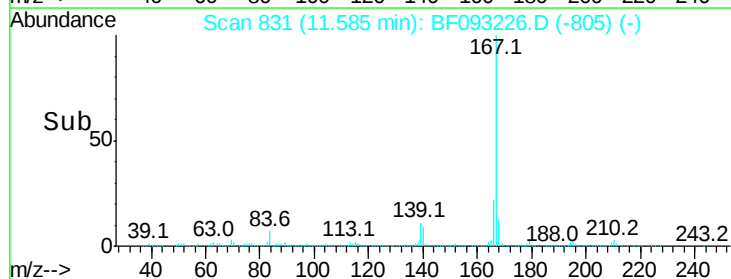
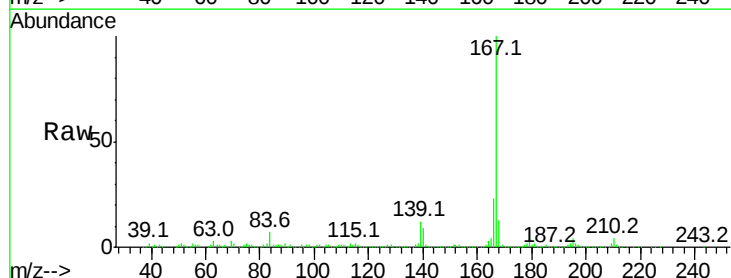
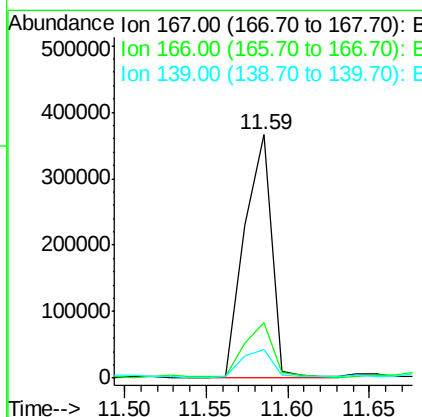
mohammad
 2/28/2017 2:35:22 PM

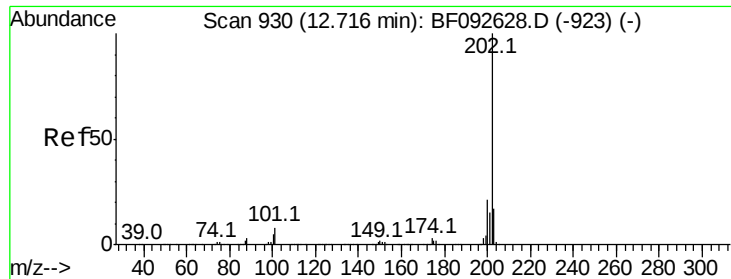


#72
 Carbazole
 Concen: 19.20 ng
 RT: 11.59 min Scan# 831
 Delta R.T. 0.00 min
 Lab File: BF093226.D
 Acq: 28 Feb 2017 1:14

Tgt Ion:167 Resp: 418109

Ion	Ratio	Lower	Upper
167	100		
166	22.8	18.2	27.2
139	11.6	11.4	17.2





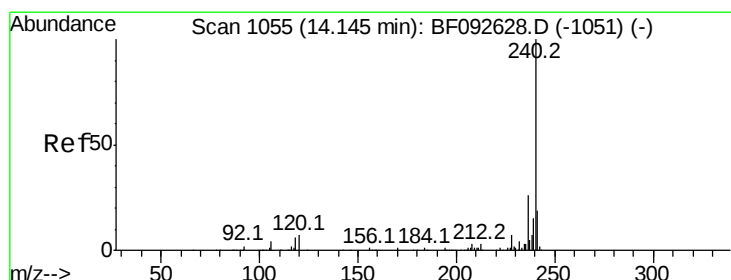
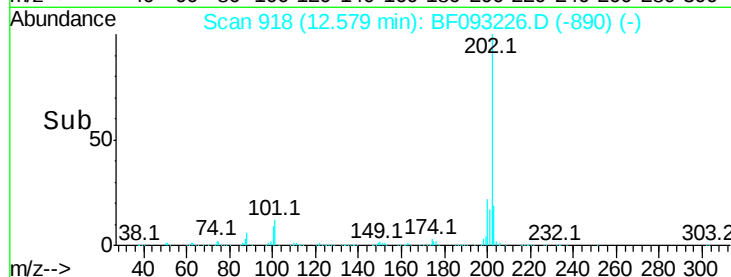
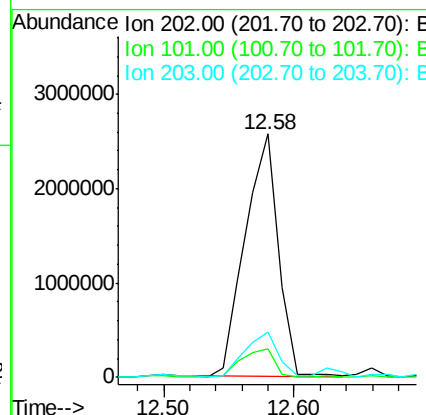
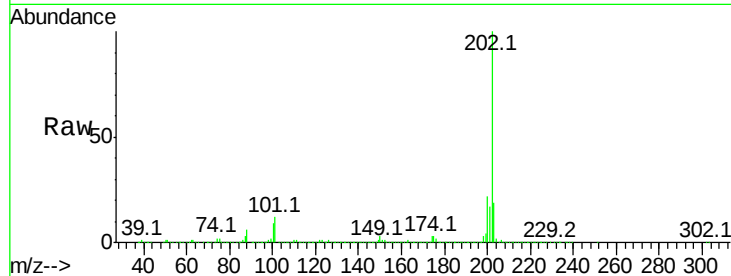
#74
Fluoranthene
Concen: 194.12 ng
RT: 12.58 min Scan# 918
Delta R.T. 0.02 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	34.6
203	18.7	0.0	38.7

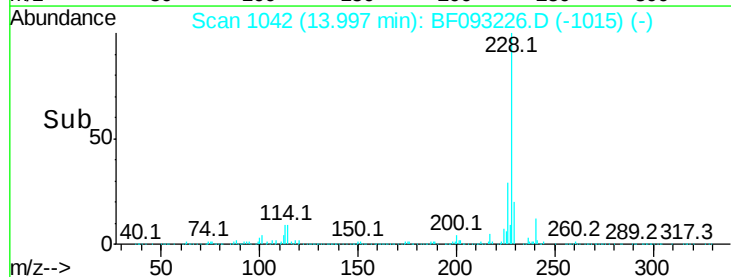
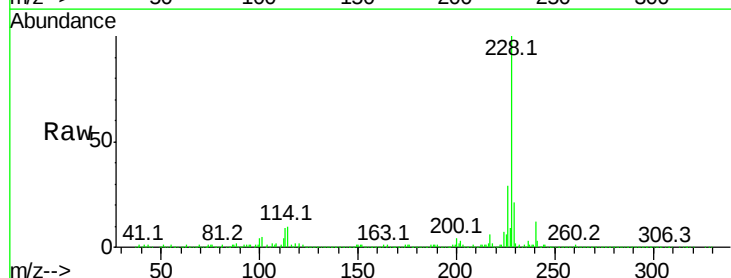
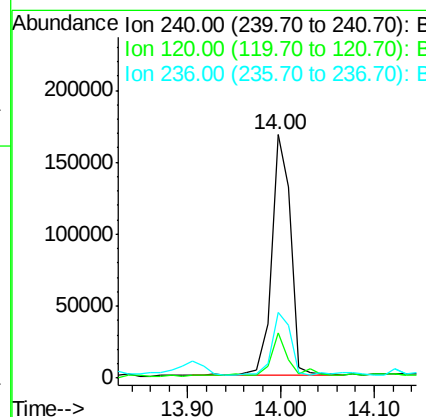
Manual Integrations
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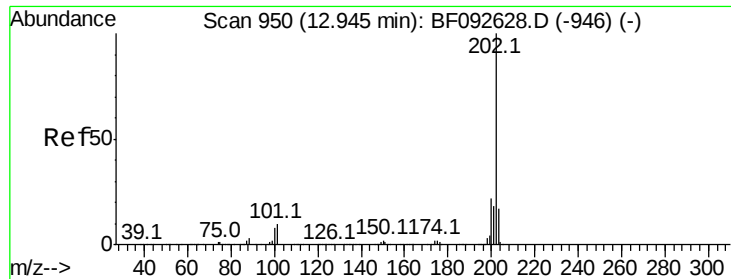
mohammad
2/28/2017 2:35:22 PM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.00 min Scan# 1042
Delta R.T. 0.01 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.7	12.9	19.3
236	26.9	20.9	31.3





#77

Pvrene

Concen: 240.65 ng

RT: 12.81 min Scan# 938

Delta R.T. 0.02 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

Instrument :

BNA_F

ClientSampleId :

E2-W4-WSW

Tot Ion:202 Resp: 4373849

Ion Ratio Lower Upper

202 100

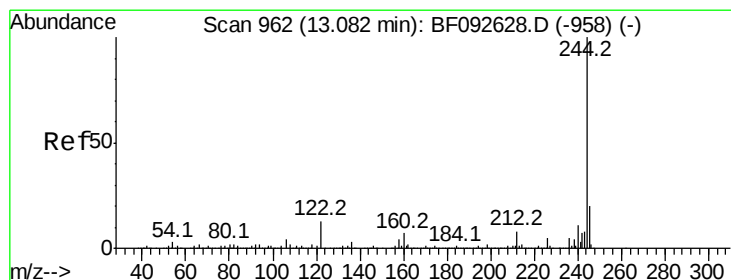
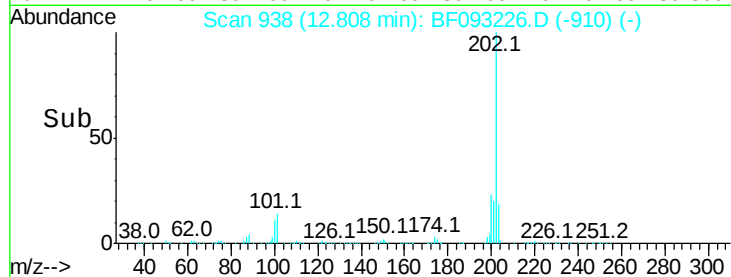
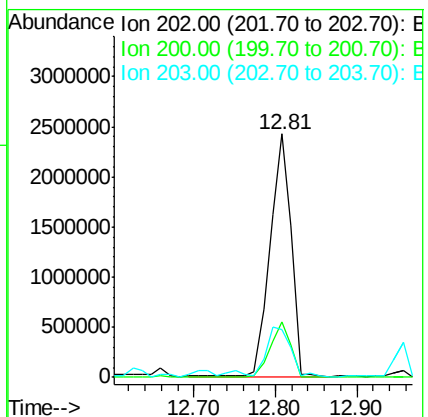
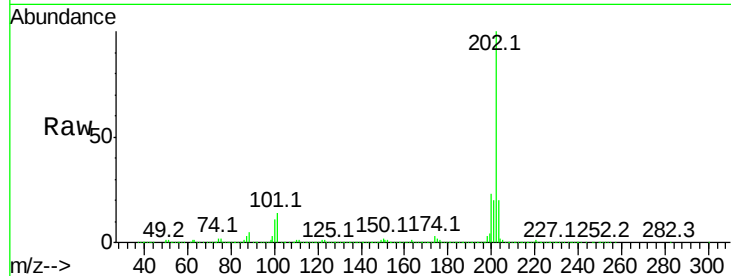
200 22.9 17.7 26.5

203 19.7 14.7 22.1

Manual Integrations
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mohammad

2/28/2017 2:35:22 PM



#78

Terphenyl-d14

Concen: 77.56 ng

RT: 12.93 min Scan# 949

Delta R.T. 0.00 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

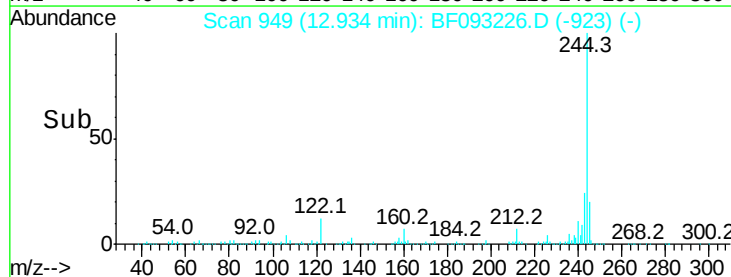
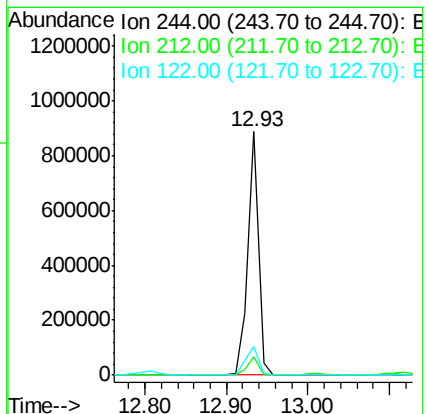
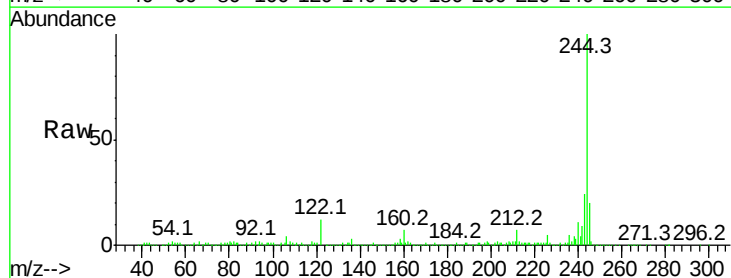
Tgt Ion:244 Resp: 801713

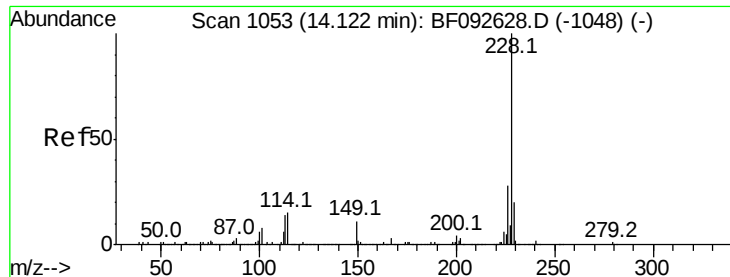
Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.2

122 11.8 11.4 17.2





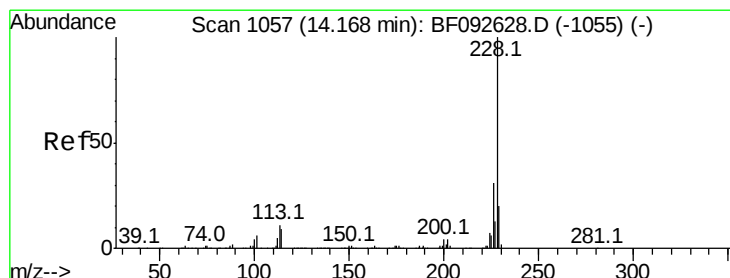
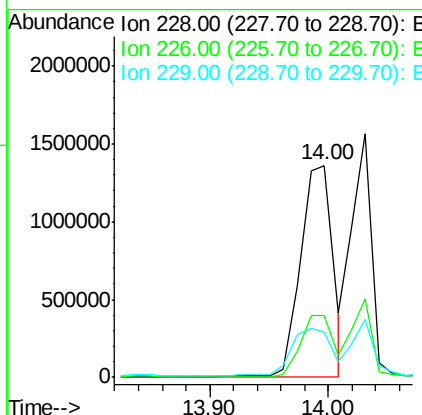
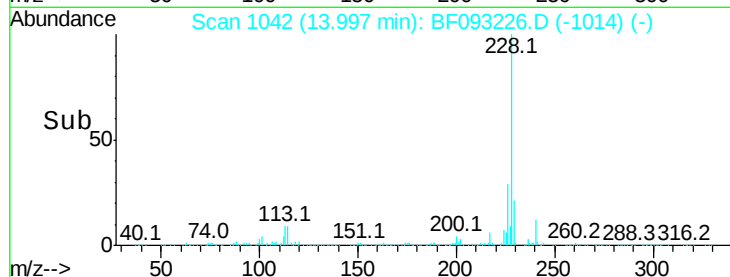
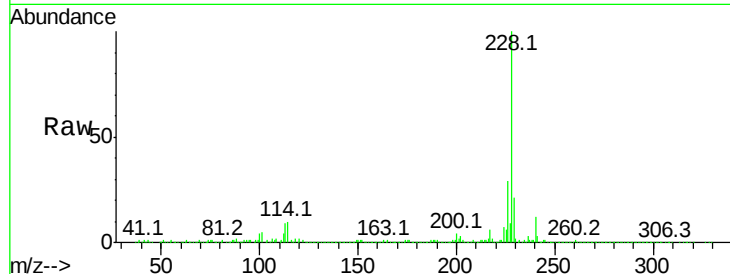
#80
Benzo(a)anthracene
Concen: 173.19 ng
RT: 14.00 min Scan# 1042
Delta R.T. 0.02 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.4	33.6
229	21.4	16.2	24.4

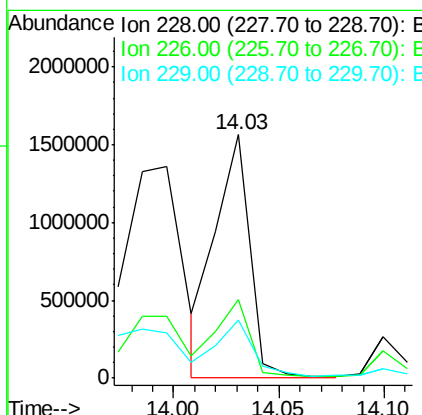
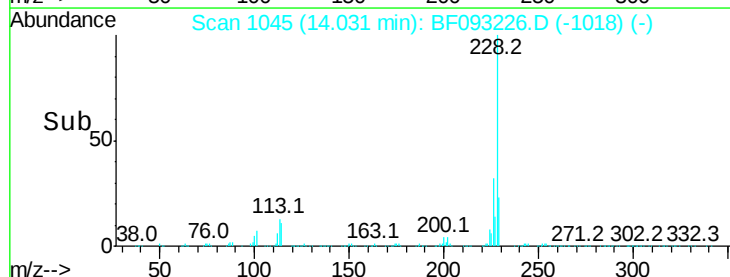
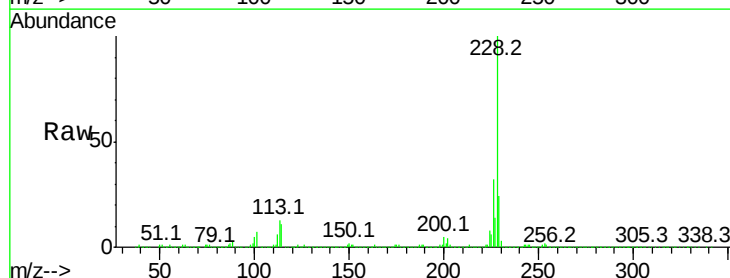
Manual Integrations
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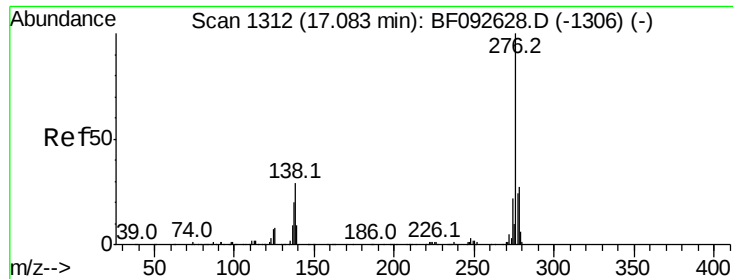
mohammad
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#82
Chrysene
Concen: 131.06 ng m
RT: 14.03 min Scan# 1045
Delta R.T. 0.01 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.4	38.0
229	23.7	16.2	24.2





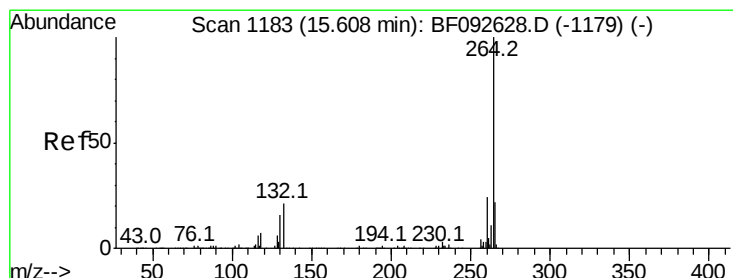
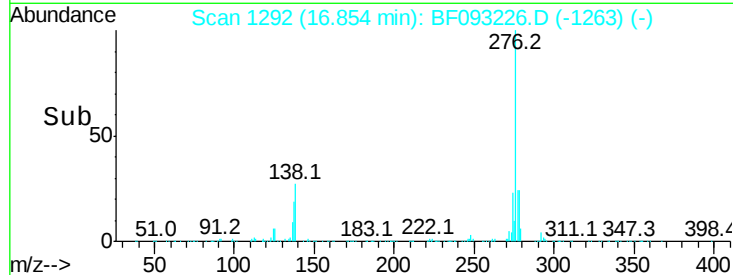
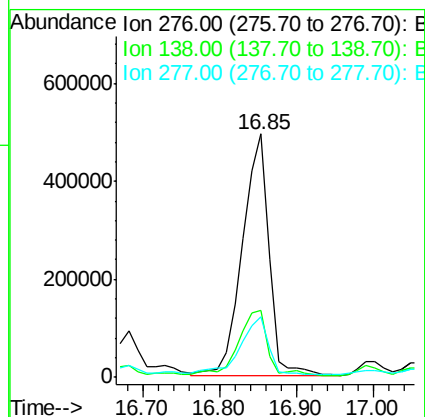
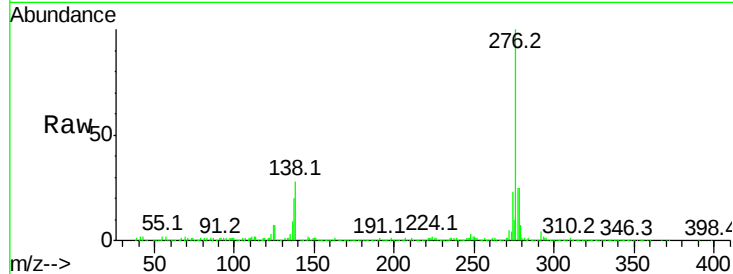
#85
Indeno(1,2,3-cd)pyrene
Concen: 109.80 ng
RT: 16.85 min Scan# 1292
Delta R.T. 0.03 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.9	21.8	32.6
277	25.2	20.2	30.4

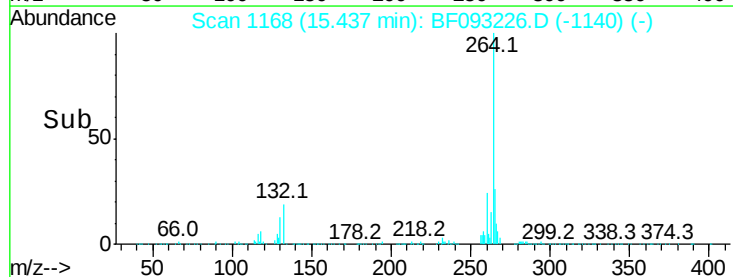
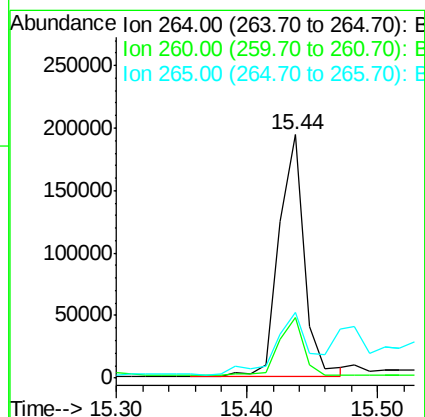
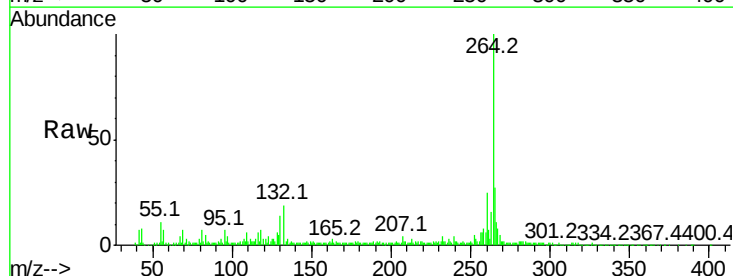
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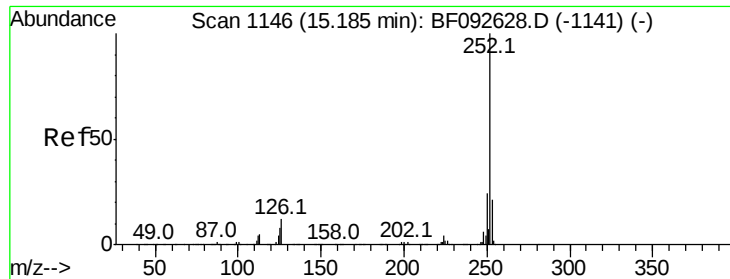
mohammad
2/28/2017 2:35:22 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1168
Delta R.T. 0.02 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	19.2	28.8
265	26.9	17.4	26.0#





#87

Benzo(b)fluoranthene

Concen: 154.59 ng m

RT: 15.04 min Scan# 1133

Delta R.T. 0.02 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

Instrument :

BNA_F

ClientSampleId :

E2-W4-WSW

Tot Ion:252 Resp: 2681904

Ion Ratio Lower Upper

252 100

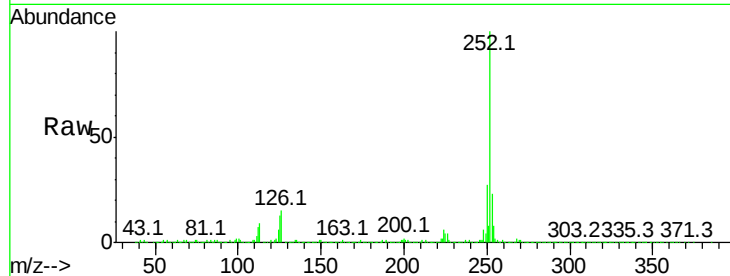
253 23.3 18.2 27.4

125 13.3 9.8 14.6

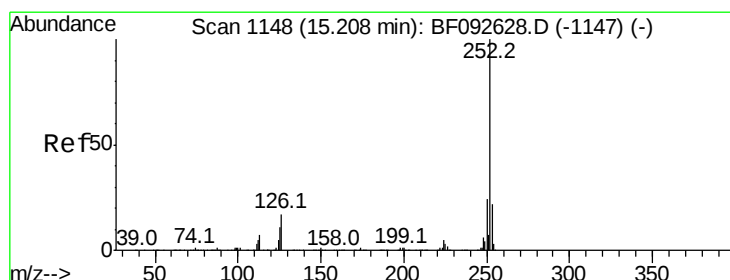
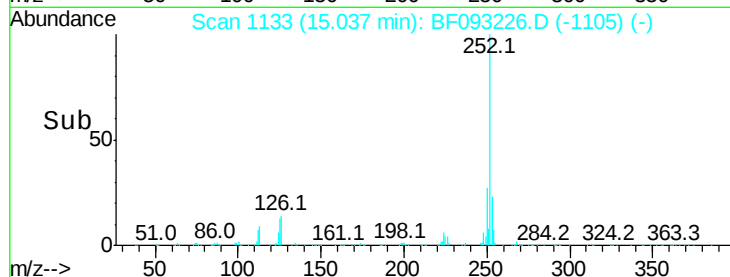
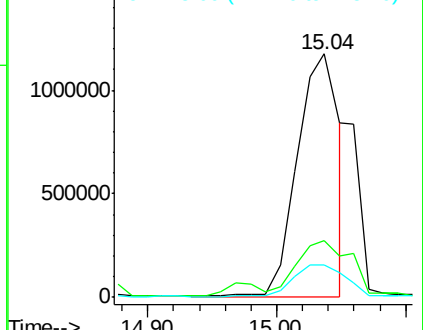
Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 41.43 ng m

RT: 15.05 min Scan# 1134

Delta R.T. 0.01 min

Lab File: BF093226.D

Acq: 28 Feb 2017 1:14

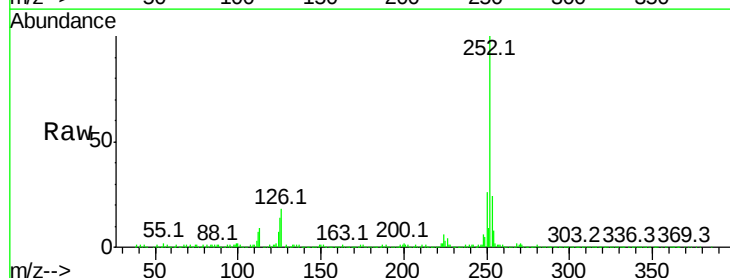
Tgt Ion:252 Resp: 620542

Ion Ratio Lower Upper

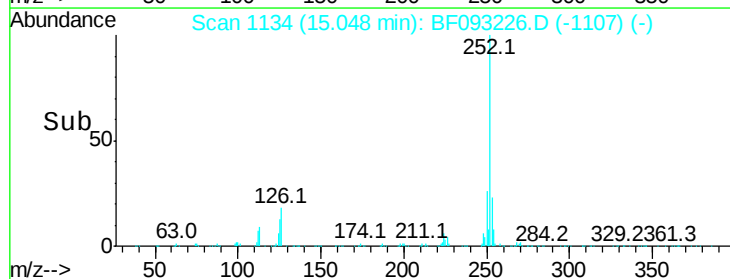
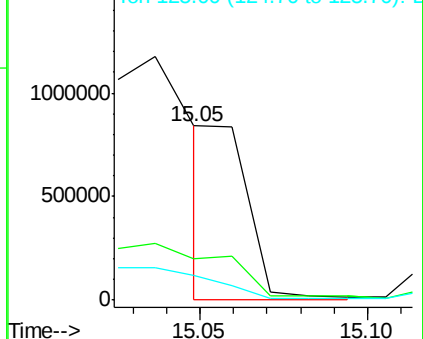
252 100

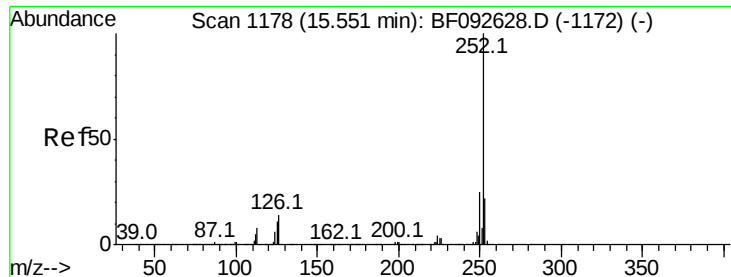
253 23.6 18.5 27.7

125 14.0 8.9 13.3#



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





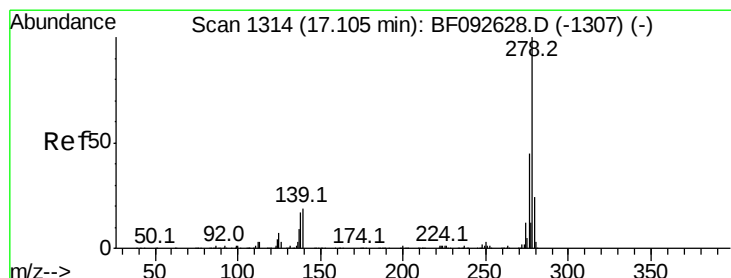
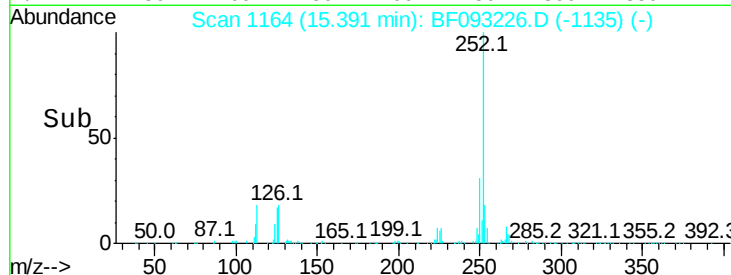
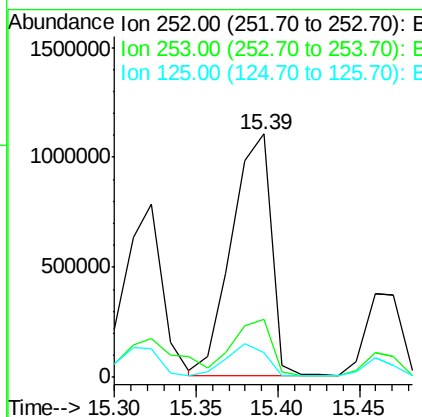
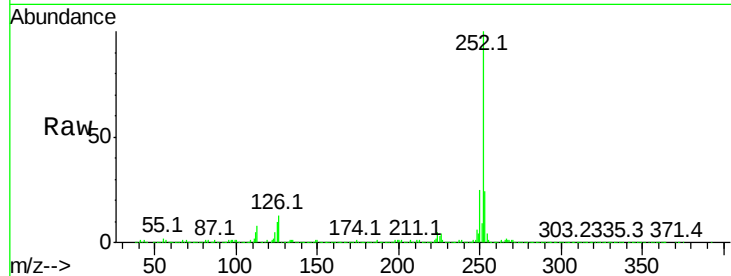
#89
Benzo(a)pyrene
Concen: 123.44 ng
RT: 15.39 min Scan# 1164
Delta R.T. 0.03 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Instrument :
BNA_F
ClientSampleId :
E2-W4-WSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.2
125	10.2	10.0	15.0

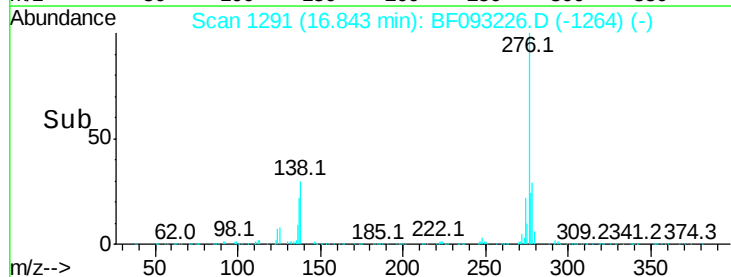
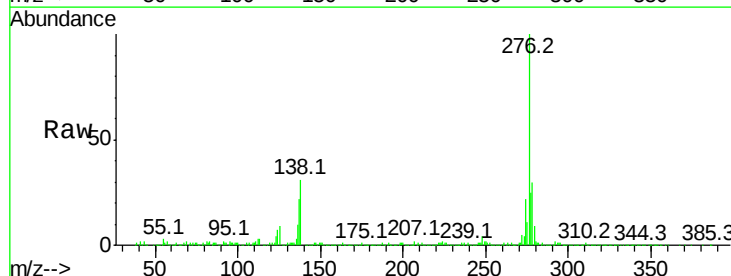
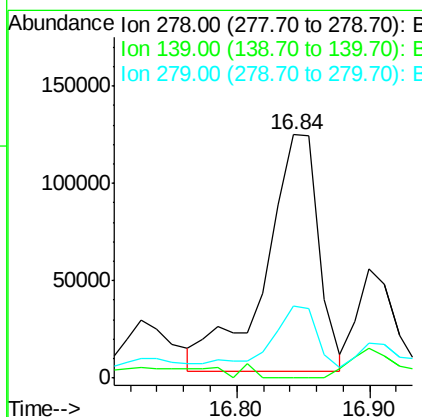
Manual Integrations
APPROVED

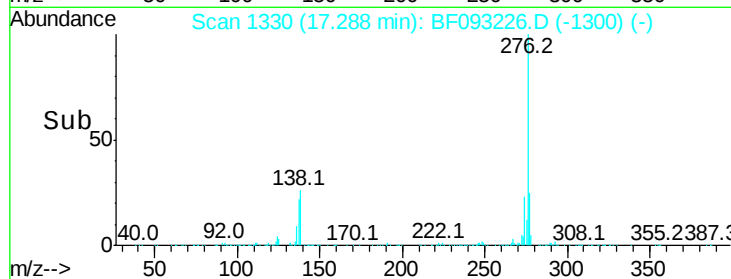
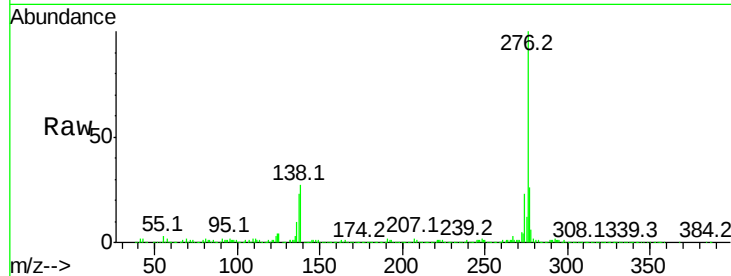
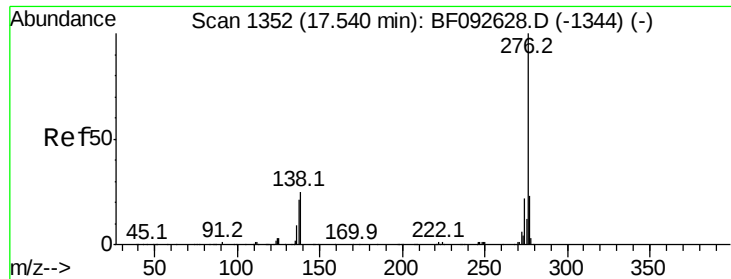
mohammad
2/28/2017 2:35:22 PM



#90
Dibenzo(a,h)anthracene
Concen: 27.81 ng m
RT: 16.84 min Scan# 1291
Delta R.T. 0.01 min
Lab File: BF093226.D
Acq: 28 Feb 2017 1:14

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	29.4	19.8	29.6





#91
 Benzo(a,h,i)perylene
 Concen: 92.50 ng
 RT: 17.29 min Scan# 1330
 Delta R.T. 0.05 min
 Lab File: BF093226.D
 Acq: 28 Feb 2017 1:14

Instrument :
 BNA_F
 ClientSampled :
 E2-W4-WSW

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.2	19.2	28.8
138	26.9	16.0	24.0

Manual Integrations
 APPROVED

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