

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094150.D
 Acq On : 4 Apr 2017 6:09
 Operator : SJ/MA
 Sample : I2510-02
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-11-12-BASE

Manual Integrations
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 4/4/2017 5:35:00 PM

Quant Time: Apr 04 07:14:58 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	169744	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	634493	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	241894	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	357315	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	303402	20.00	ng	-0.01
86) Perylene-d12	16.25	264	220172	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.43	112	1062264	105.70	ng	0.00
7) Phenol-d6	5.50	99	1327158	106.75	ng	-0.01
23) Nitrobenzene-d5	6.54	82	723076	65.04	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	178644	93.46	ng	-0.01
44) 2-Fluorobiphenyl	8.72	172	1291901	81.46	ng	-0.02
78) Terphenyl-d14	13.34	244	806330	59.57	ng	-0.01
Target Compounds						Qvalue
11) bis(2-Chloroethyl)ether	5.59	93	25968	2.35	ng	95
31) Naphthalene	7.42	128	166908	5.47	ng	98
37) 2-Methylnaphthalene	8.26	142	51390	2.53	ng	95
48) Acenaphthylene	9.36	152	192312	7.58	ng	100
49) Dimethylphthalate	9.21	163	124745	7.25	ng	97
51) Acenaphthene	9.57	154	44550	3.01	ng	99
54) Dibenzofuran	9.79	168	64902	3.22	ng	99
57) Fluorene	10.20	166	106665	6.38	ng	99
70) Phenanthrene	11.39	178	718808	36.16	ng	99
71) Anthracene	11.45	178	220839	10.79	ng	98
72) Carbazole	11.65	167	55780	2.66	ng	98
74) Fluoranthene	12.86	202	958924	47.11	ng	99
77) Pvrene	13.13	202	1046459	47.53	ng	99
80) Benzo(a)anthracene	14.60	228	512261m	28.95	ng	
82) Chrysene	14.64	228	466971	28.44	ng	97
85) Indeno(1,2,3-cd)pyrene	17.59	276	215772	15.17	ng	95
87) Benzo(b)fluoranthene	15.84	252	583041m	43.20	ng	
88) Benzo(k)fluoranthene	15.87	252	135611m	10.27	ng	
89) Benzo(a)pvrene	16.19	252	382333	30.76	ng	100
90) Dibenzo(a,h)anthracene	17.60	278	46824	4.45	ng	# 90
91) Benzo(g,h,i)perylene	17.99	276	237592	22.40	ng	98

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

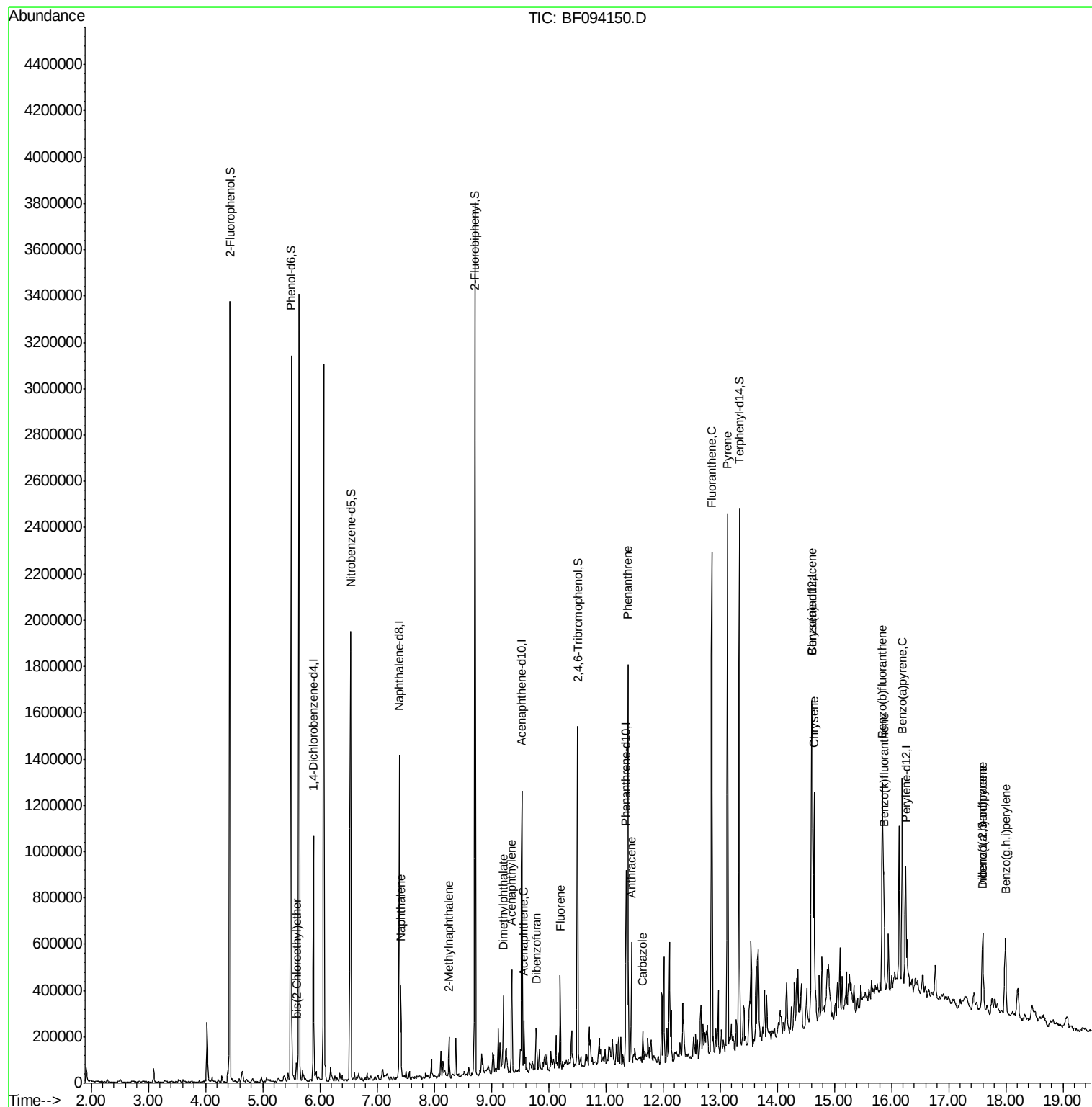
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
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Misc :
ALS Vial : 32 Sample Multiplier: 1

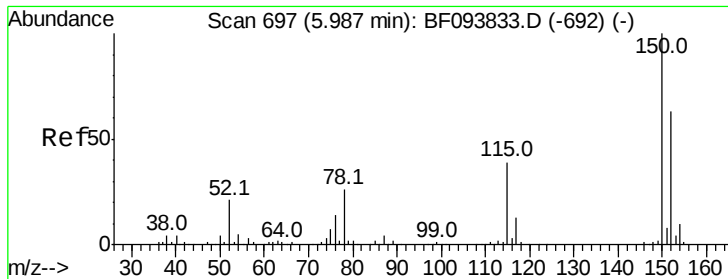
Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

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#1

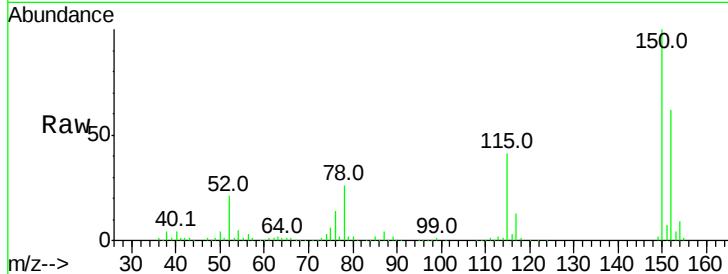
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

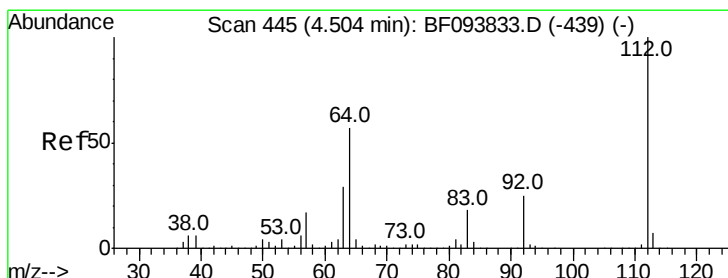
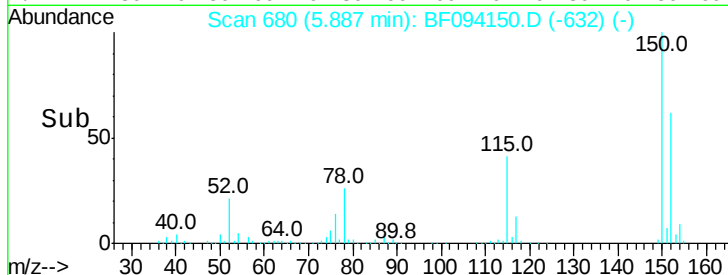
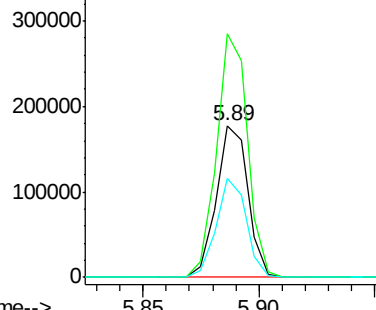
Tot Ion	Ratio	Lower	Upper
152	100		
150	160.6	126.2	189.2
115	65.1	52.2	78.2

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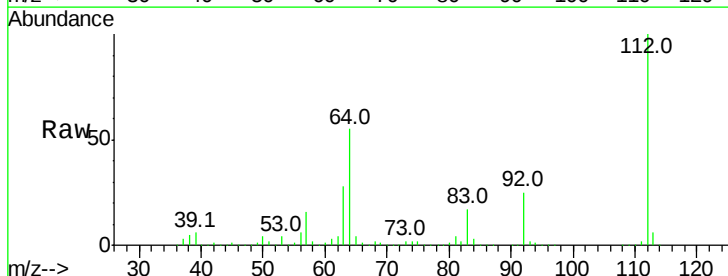
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



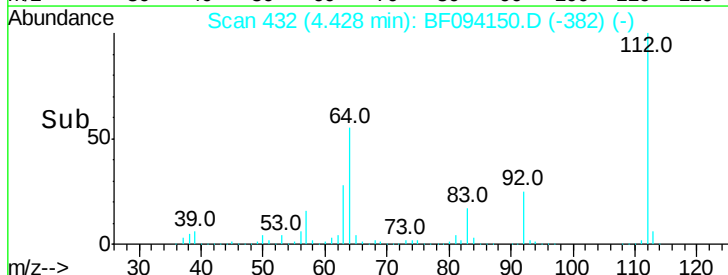
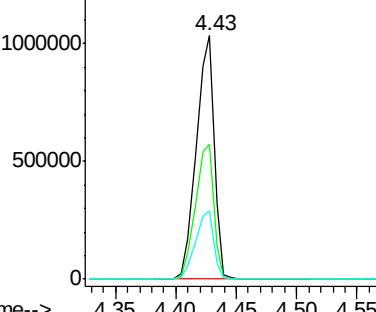
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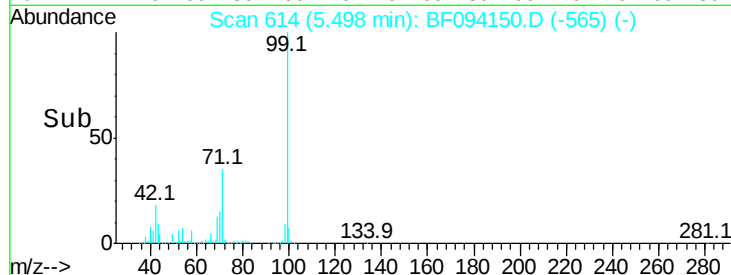
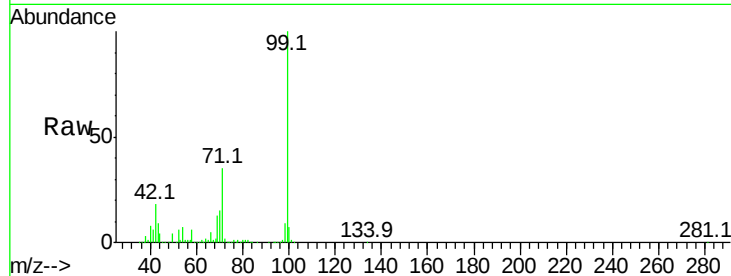
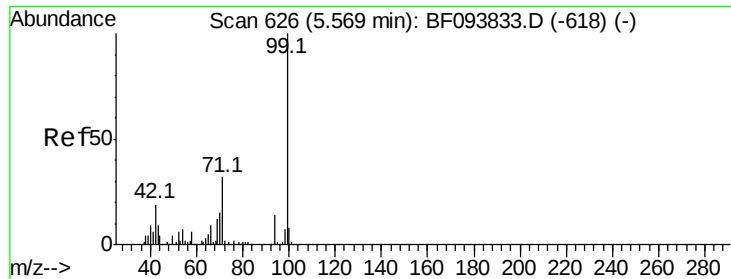
2-Fluorophenol
Concen: 105.70 ng
RT: 4.43 min Scan# 432
Delta R.T. -0.01 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	46.0	69.0
63	28.0	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 106.75 ng

RT: 5.50 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF094150.D

Acq: 4 Apr 2017 6:09

Tot Ion: 99 Resp: 1327158

Ion Ratio Lower Upper

99 100

42 18.4 13.5 20.3

71 34.7 24.5 36.7

Instrument :

BNA_F

ClientSampleId :

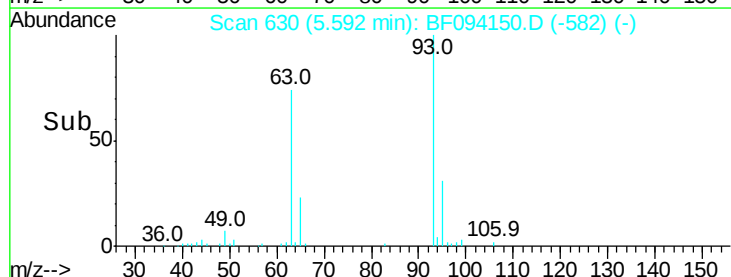
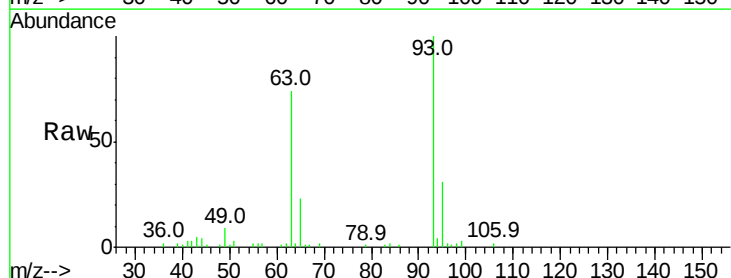
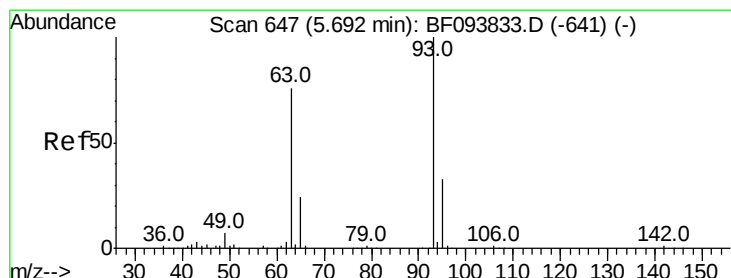
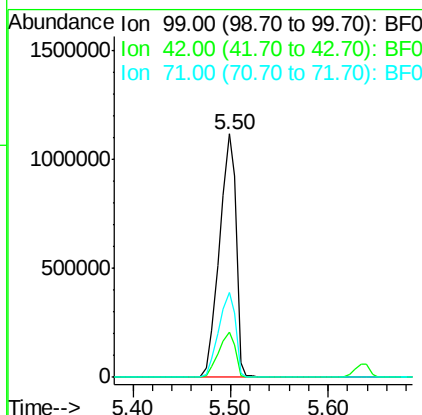
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#11

bis(2-Chloroethyl)ether

Concen: 2.35 ng

RT: 5.59 min Scan# 630

Delta R.T. -0.02 min

Lab File: BF094150.D

Acq: 4 Apr 2017 6:09

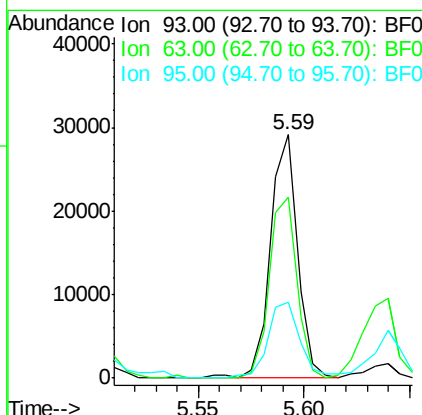
Tgt Ion: 93 Resp: 25968

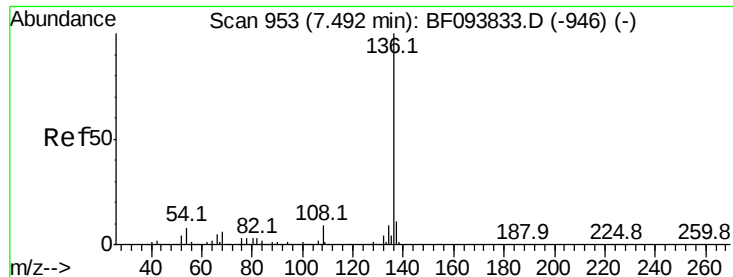
Ion Ratio Lower Upper

93 100

63 74.4 59.2 99.2

95 31.3 12.8 52.8





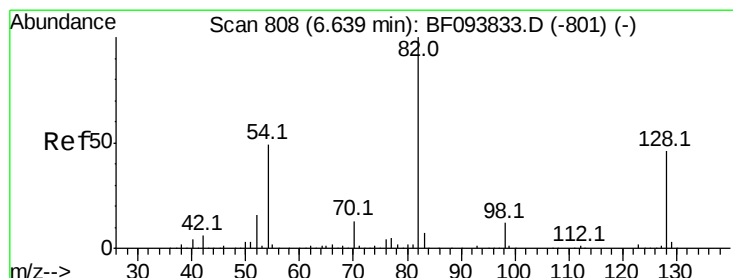
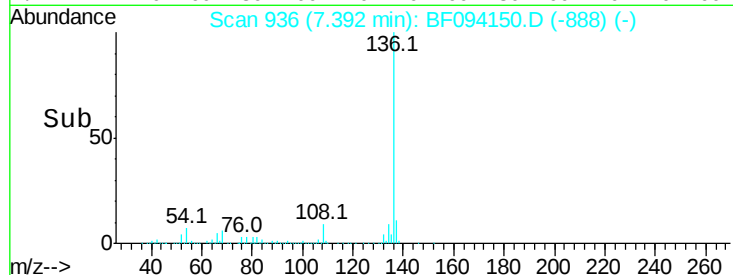
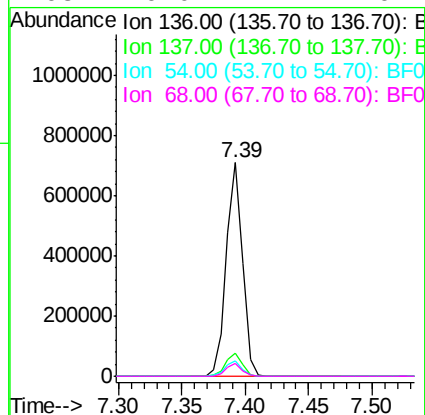
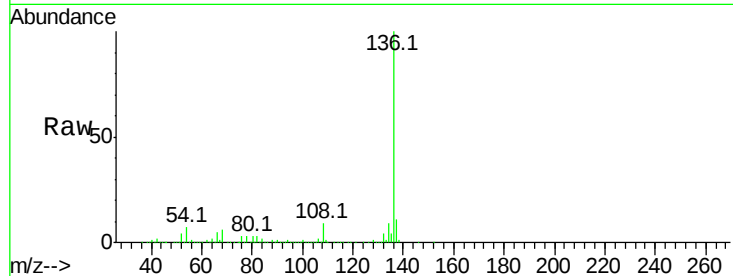
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.39 min Scan# 936
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
136	100	634493		
137	10.9		8.5	12.7
54	7.3		4.9	7.3
68	6.0		4.1	6.1

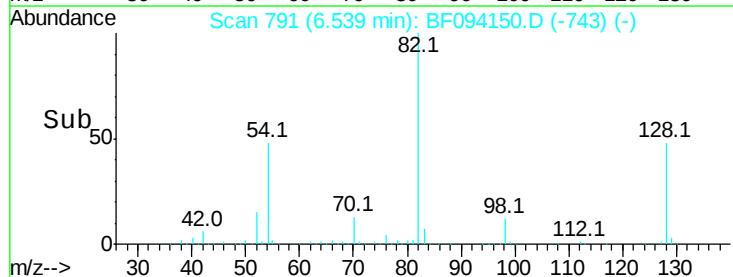
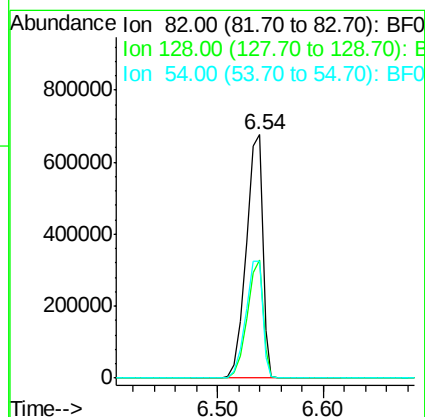
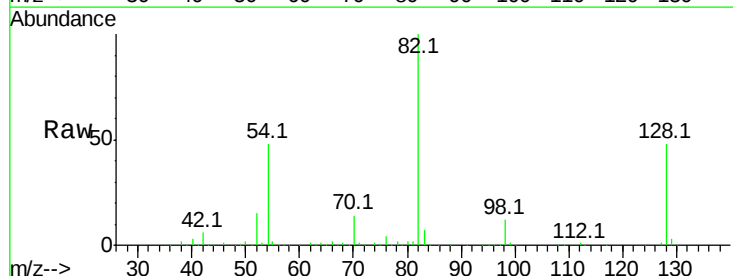
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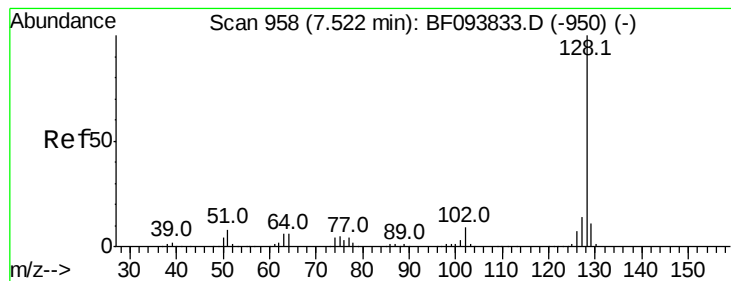
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#23
Nitrobenzene-d5
Concen: 65.04 ng
RT: 6.54 min Scan# 791
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	723076		
128	48.4		34.0	51.0
54	48.0		42.2	63.2





#31

Naphthalene

Concen: 5.47 ng

RT: 7.42 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF094150.D

Acq: 4 Apr 2017 6:09

Instrument :

BNA_F

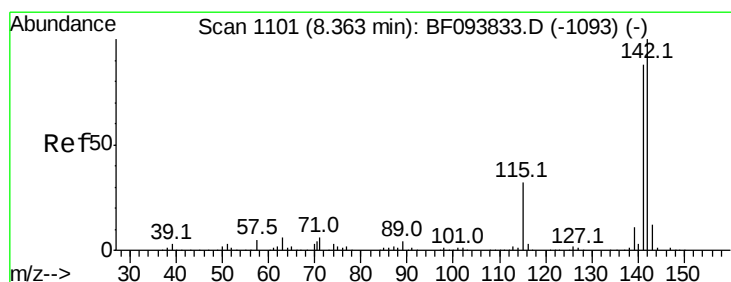
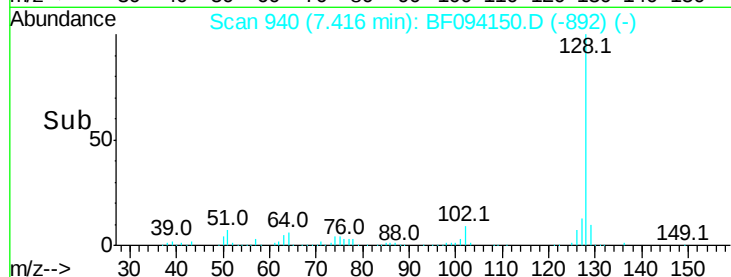
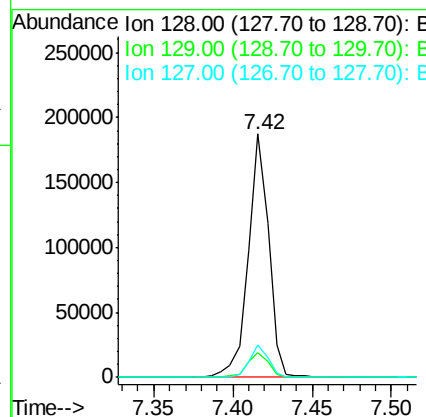
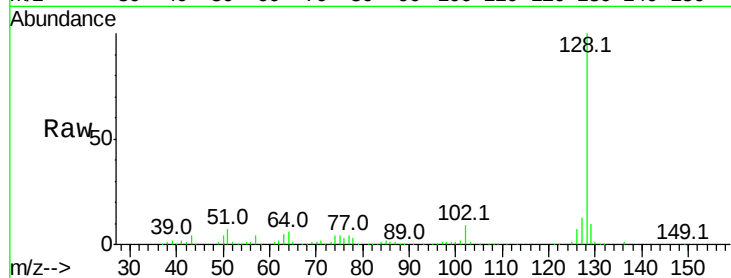
ClientSampleId :

E2-Q-P-11-12-BASE

Tot Ion:128	Resp:	166908
Ion Ratio	Lower	Upper
128 100		
129 10.4	9.0	13.6
127 13.1	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 2.53 ng

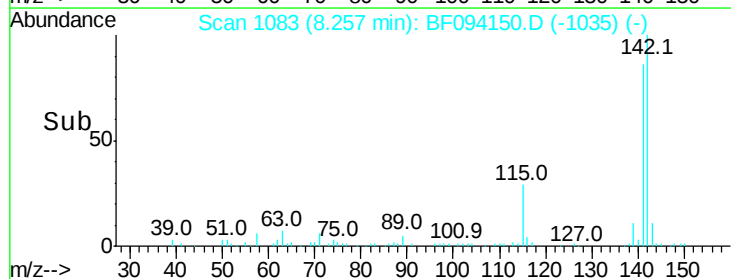
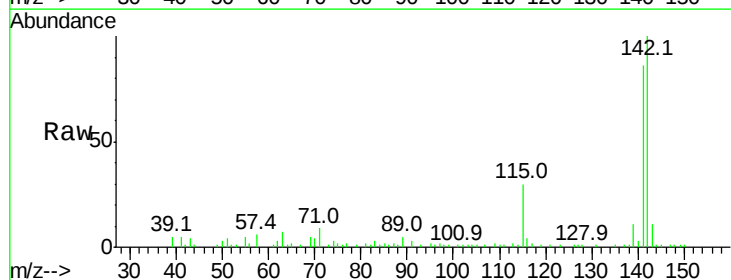
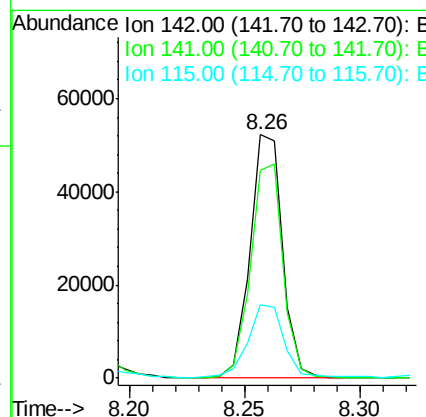
RT: 8.26 min Scan# 1083

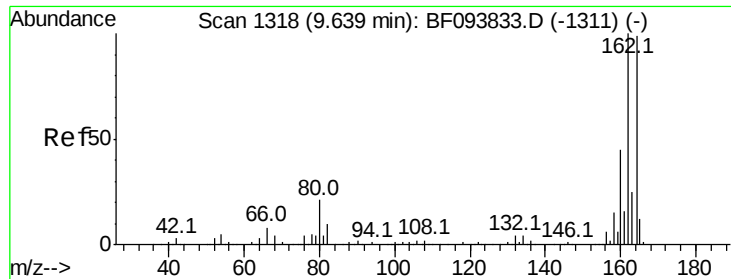
Delta R.T. -0.02 min

Lab File: BF094150.D

Acq: 4 Apr 2017 6:09

Tgt Ion:142	Resp:	51390
Ion Ratio	Lower	Upper
142 100		
141 85.6	71.3	106.9
115 30.1	27.1	40.7





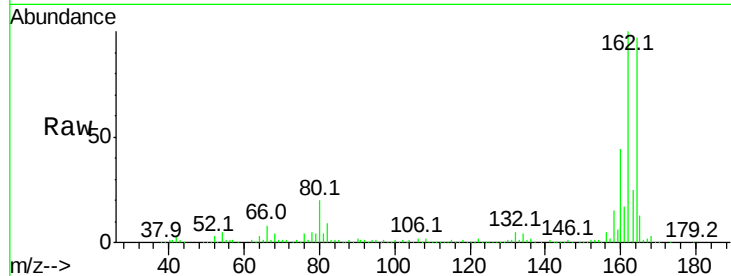
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.53 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

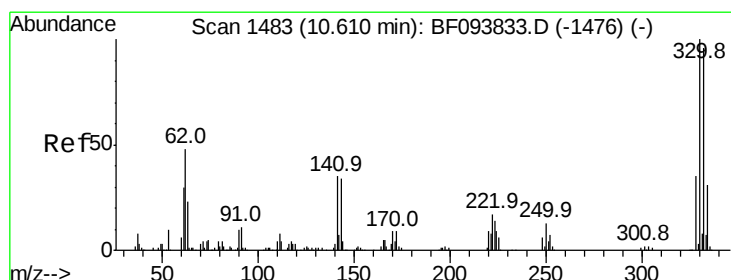
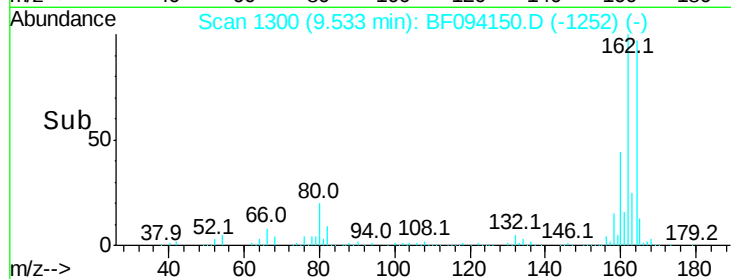
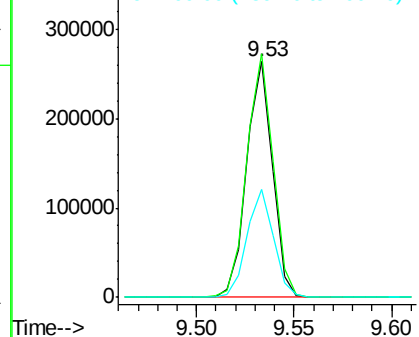
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.2	82.6	123.8	
160	45.8	36.2	54.2	

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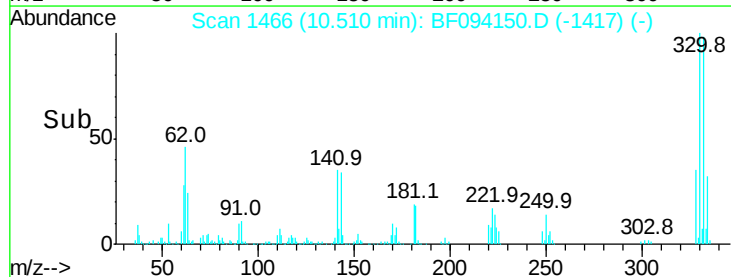
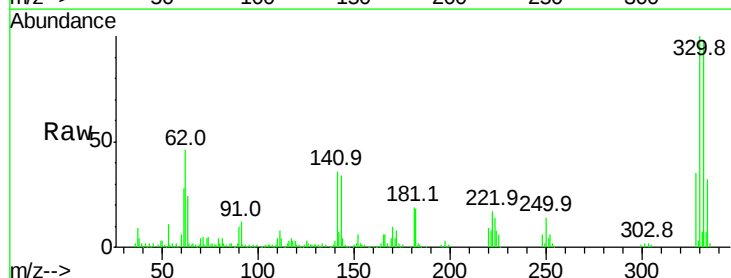
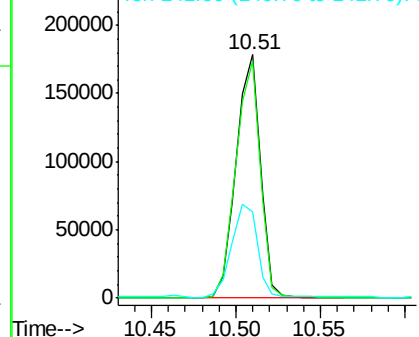
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

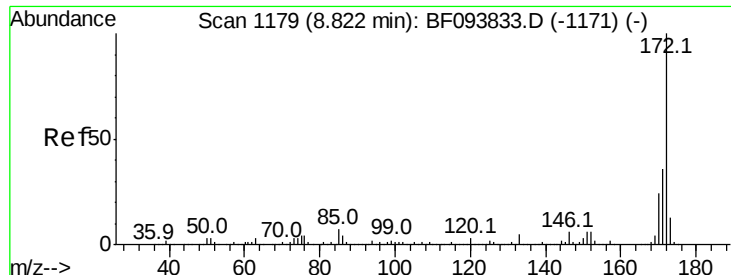


#41
2,4,6-Tribromophenol
Concen: 93.46 ng
RT: 10.51 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.4	76.6	115.0	
141	40.5	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





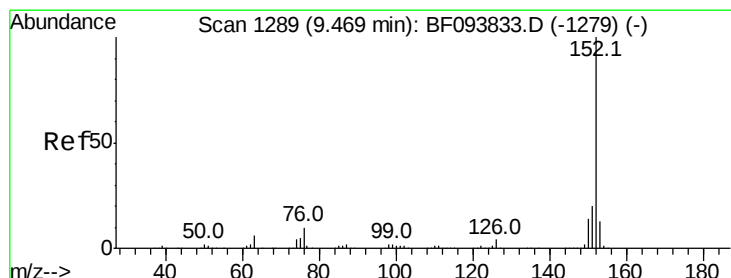
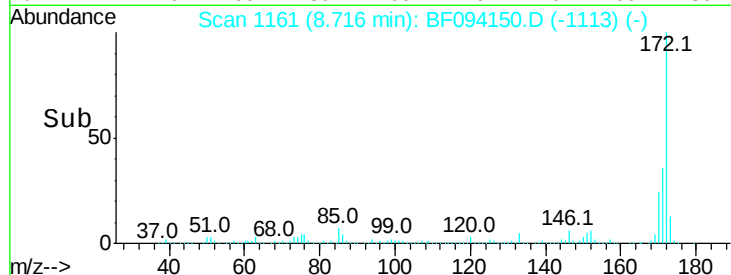
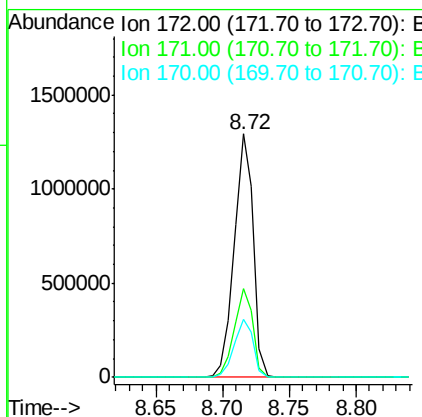
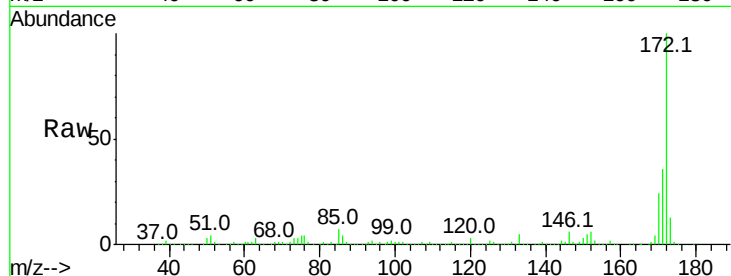
#44
 2-Fluorobiphenyl
 Concen: 81.46 ng
 RT: 8.72 min Scan# 1161
 Delta R.T. -0.02 min
 Lab File: BF094150.D
 Acq: 4 Apr 2017 6:09

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-11-12-BASE

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.6	44.4
170	23.9	19.8	29.8

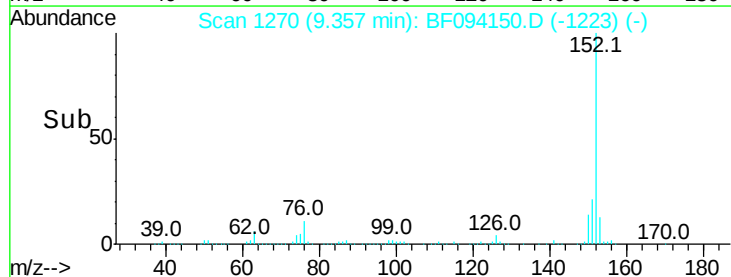
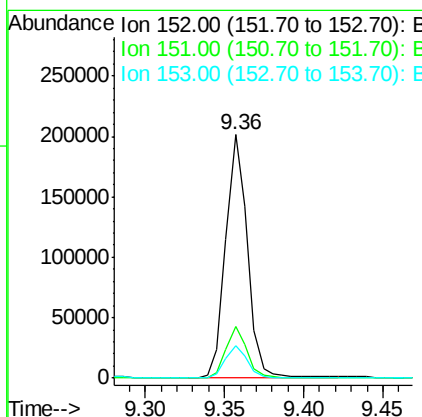
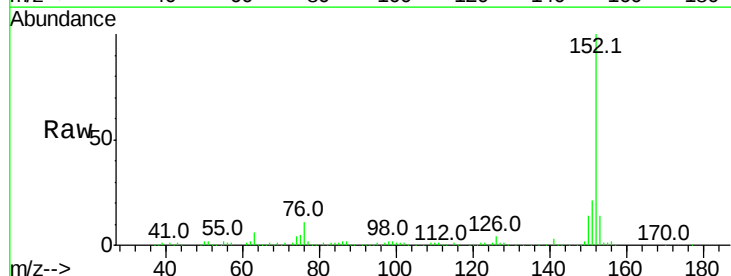
Manual Integrations
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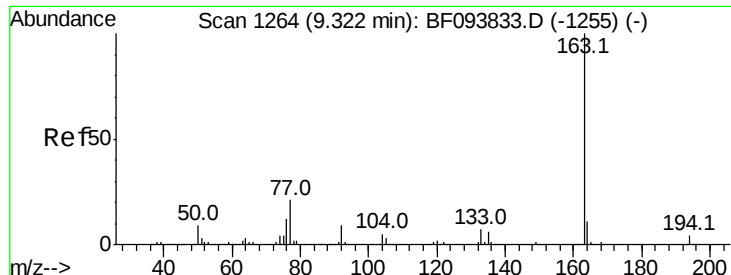
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#48
 Acenaphthylene
 Concen: 7.58 ng
 RT: 9.36 min Scan# 1270
 Delta R.T. -0.02 min
 Lab File: BF094150.D
 Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.8	25.2
153	13.5	10.8	16.2





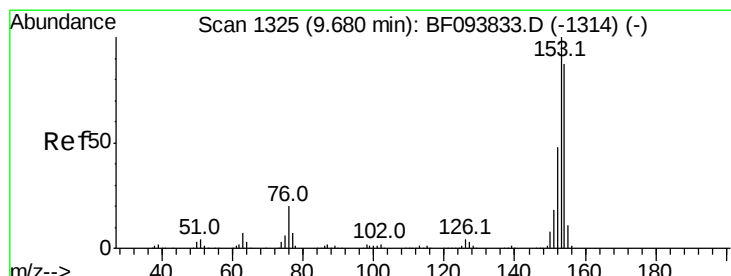
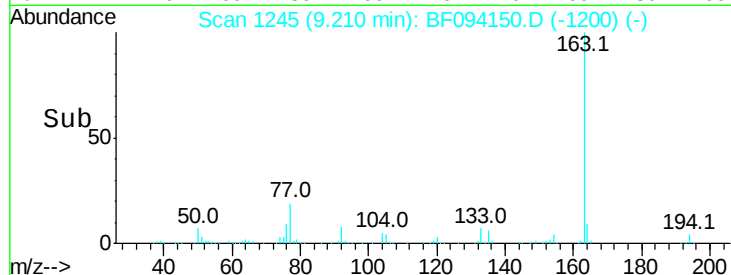
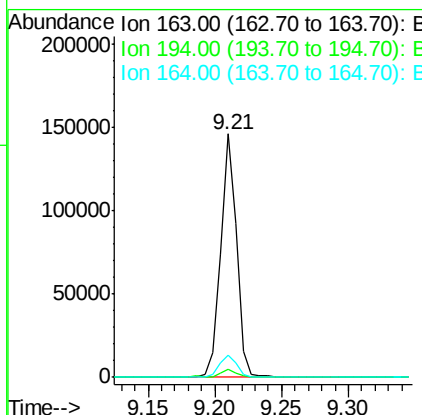
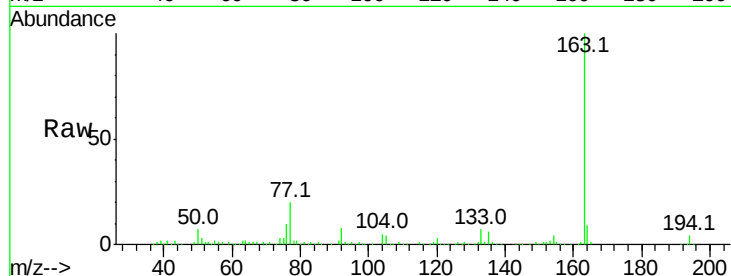
#49
Dimethylphthalate
Concen: 7.25 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.04 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
163	100	124745		
194	3.5	2.6	4.0	
164	9.2	8.4	12.6	

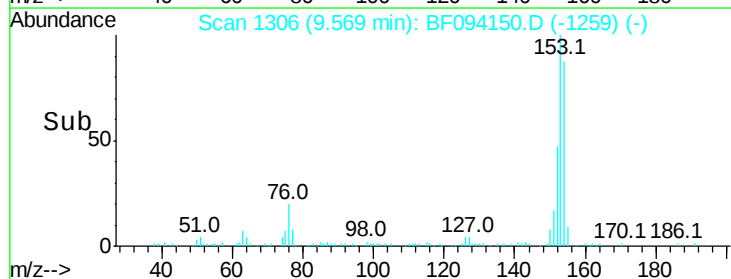
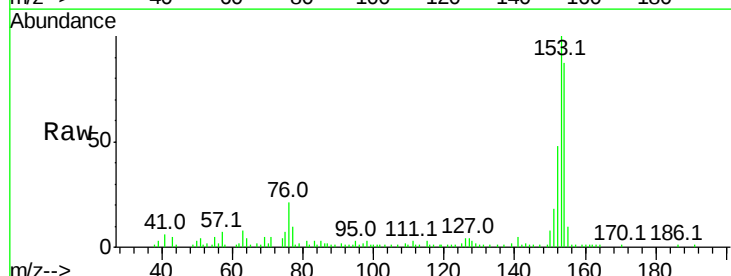
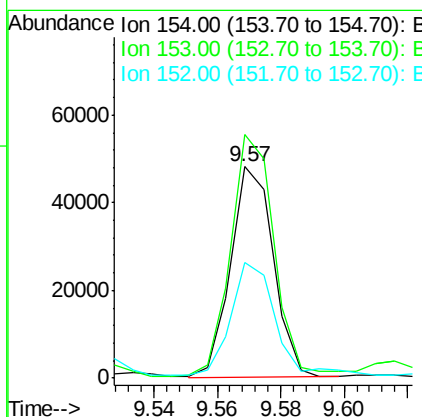
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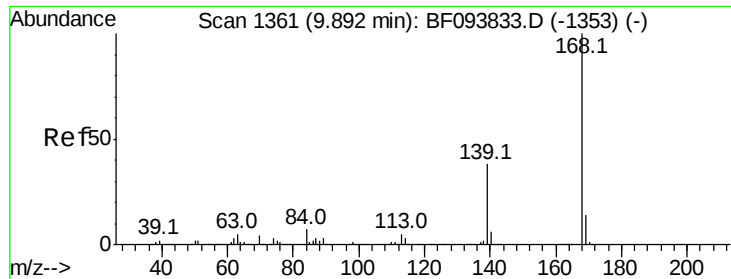
mohammad
4/4/2017 5:35:00 PM



#51
Acenaphthene
Concen: 3.01 ng
RT: 9.57 min Scan# 1306
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	44550		
153	115.2	90.5	135.7	
152	54.7	43.6	65.4	





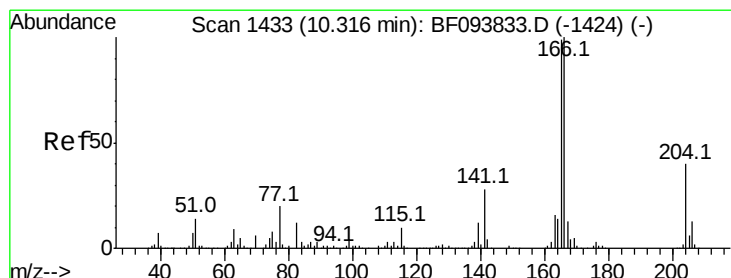
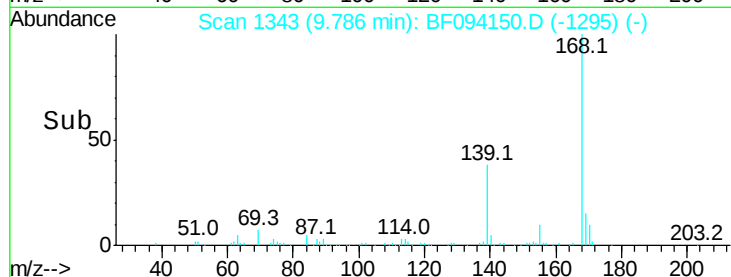
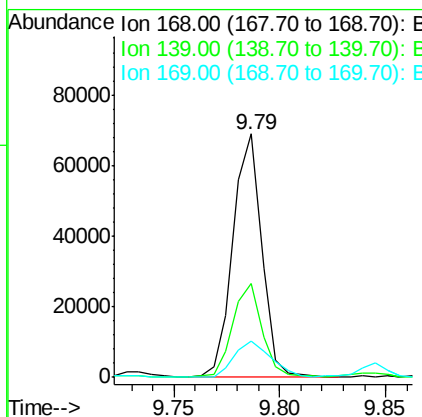
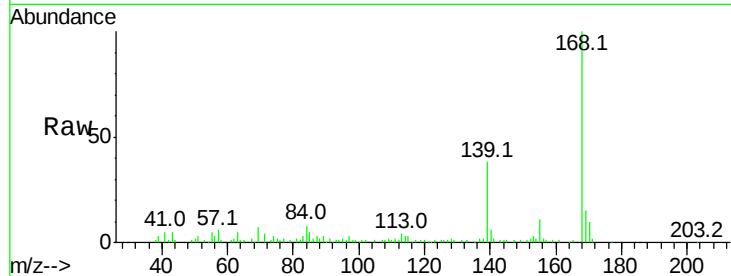
#54
Dibenzofuran
Concen: 3.22 ng
RT: 9.79 min Scan# 1343
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.4	30.6	45.8
169	15.0	10.8	16.2

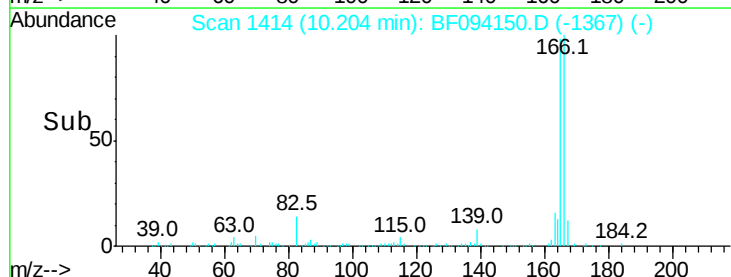
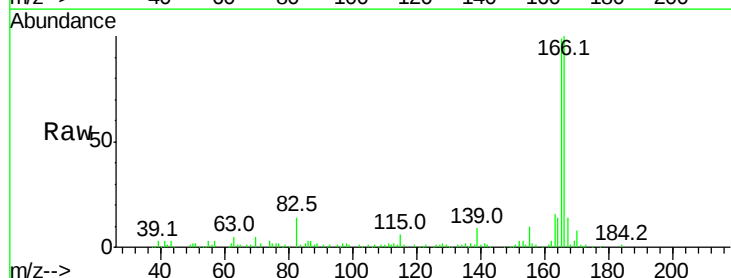
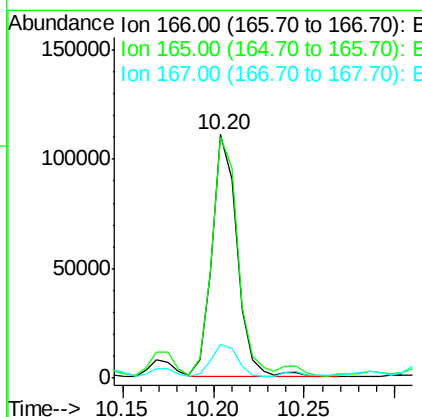
Manual Integrations
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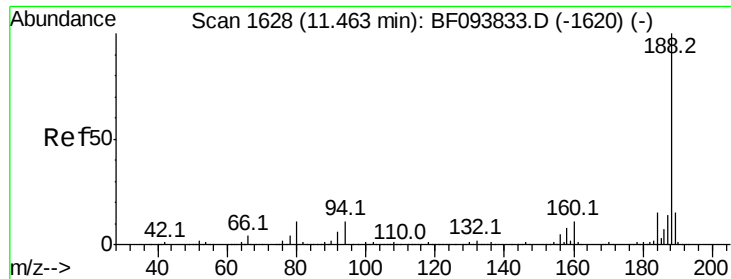
mohammad
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#57
Fluorene
Concen: 6.38 ng
RT: 10.20 min Scan# 1414
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.8	118.2
167	14.0	10.6	16.0





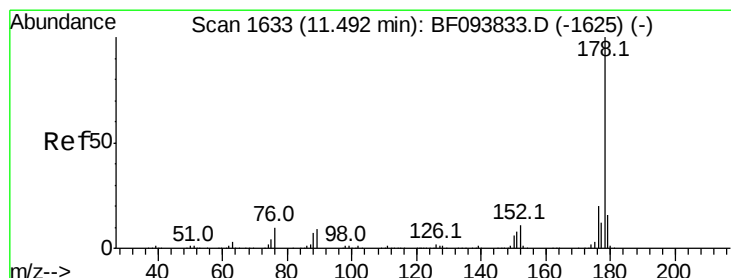
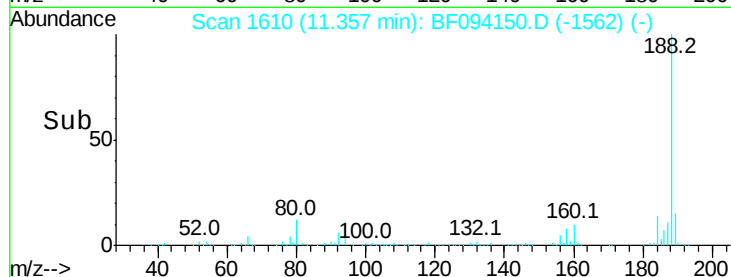
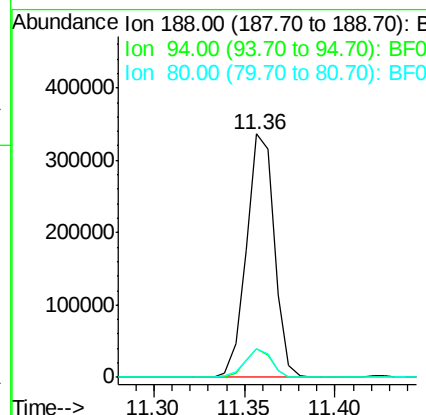
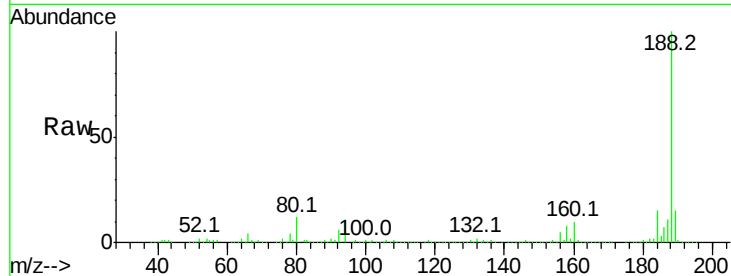
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 1610
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.5	9.4	14.2
80	11.8	10.2	15.2

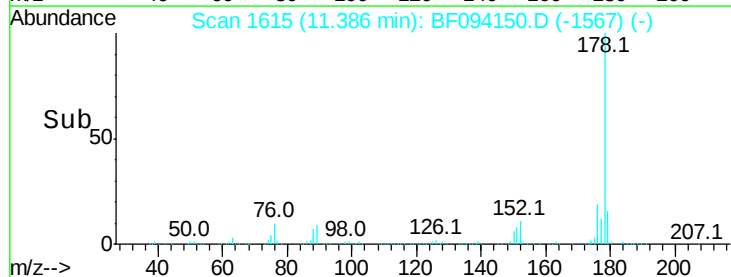
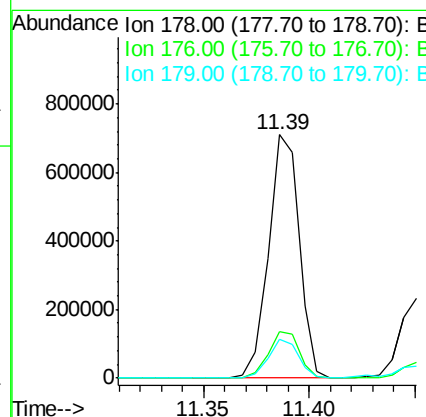
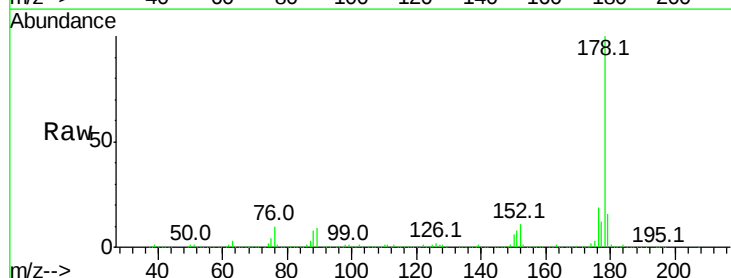
Manual Integrations
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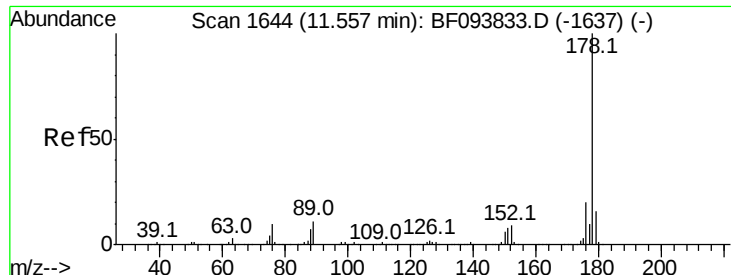
mohammad
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#70
Phenanthrene
Concen: 36.16 ng
RT: 11.39 min Scan# 1615
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.2	16.2	24.4
179	15.9	12.6	19.0





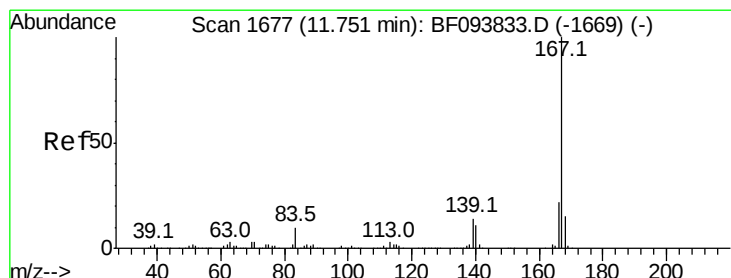
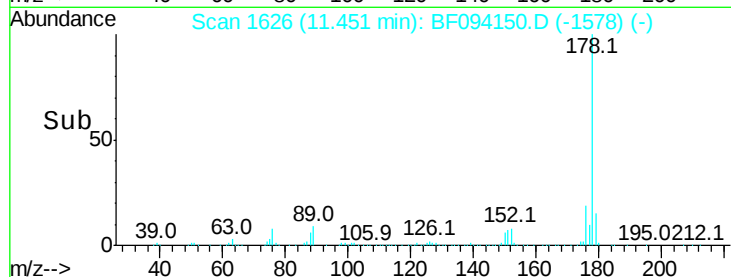
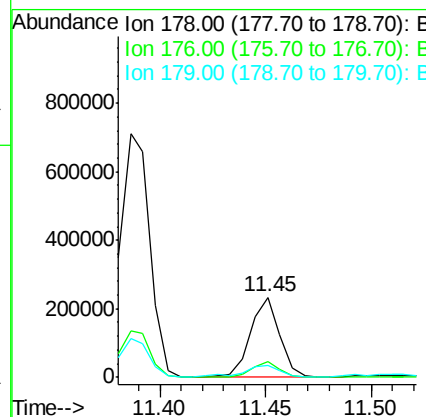
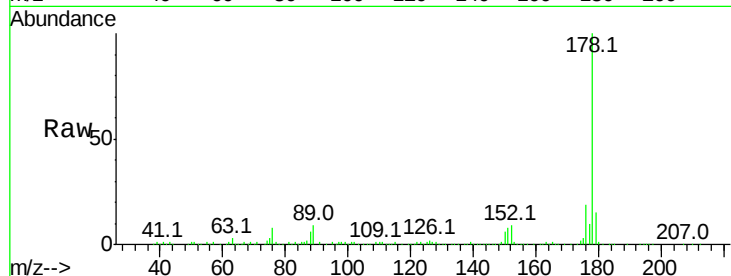
#71
 Anthracene
 Concen: 10.79 ng
 RT: 11.45 min Scan# 1626
 Delta R.T. -0.02 min
 Lab File: BF094150.D
 Acq: 4 Apr 2017 6:09

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-11-12-BASE

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	14.9	12.7	19.1

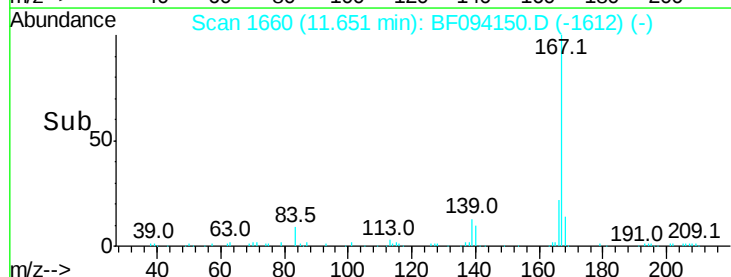
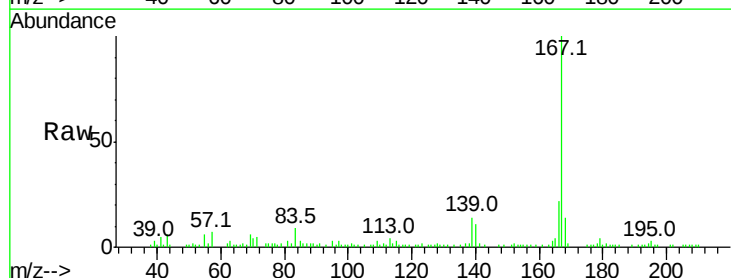
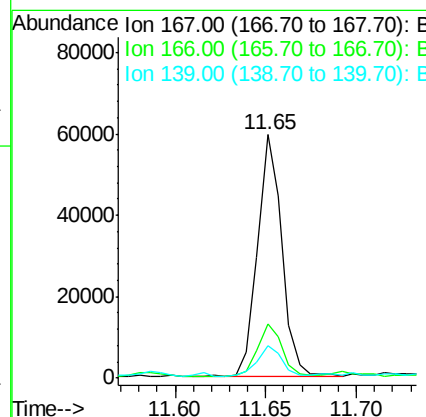
Manual Integrations
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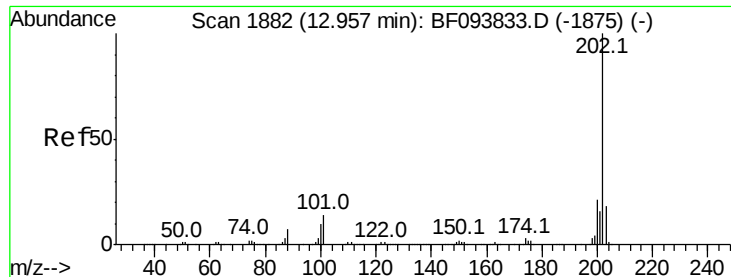
mohammad
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#72
 Carbazole
 Concen: 2.66 ng
 RT: 11.65 min Scan# 1660
 Delta R.T. -0.02 min
 Lab File: BF094150.D
 Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	18.1	27.1
139	13.5	11.7	17.5





#74

Fluoranthene

Concen: 47.11 ng

RT: 12.86 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF094150.D

Acq: 4 Apr 2017 6:09

Instrument :

BNA_F

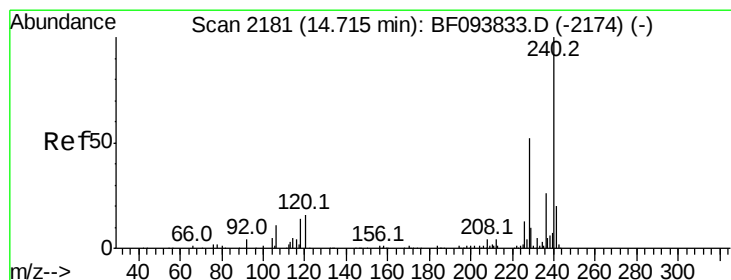
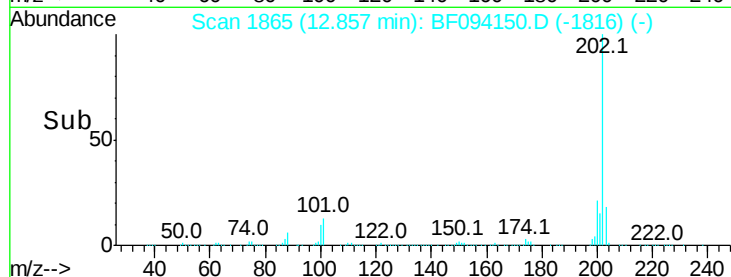
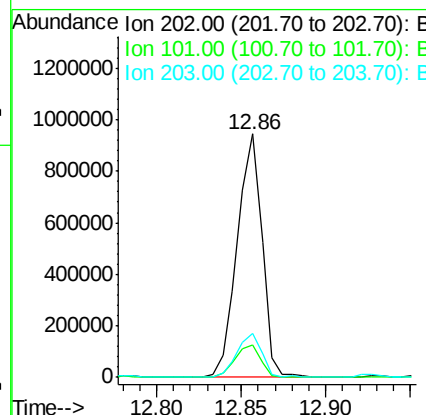
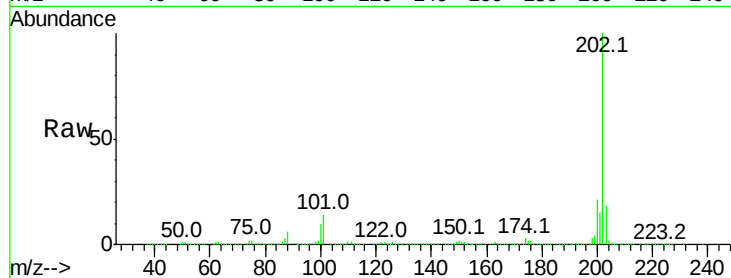
ClientSampleId :

E2-Q-P-11-12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	13.6	0.0	33.2	
203	17.9	0.0	38.1	

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

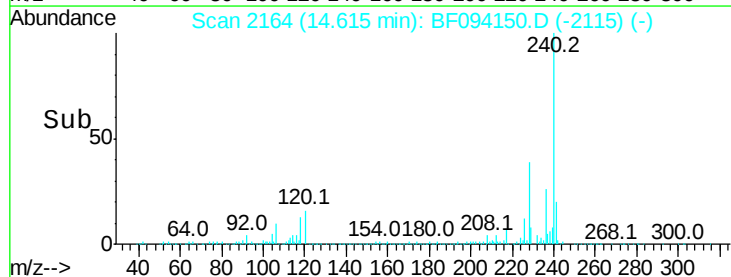
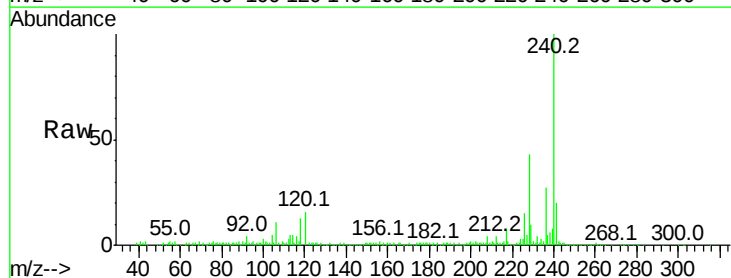
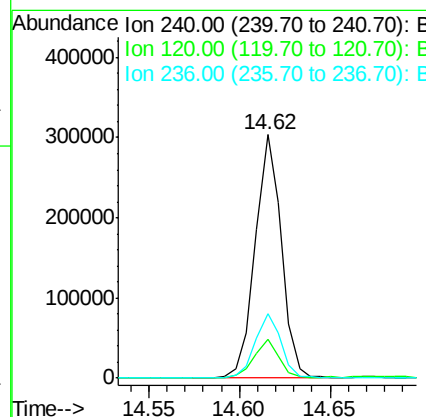
RT: 14.62 min Scan# 2164

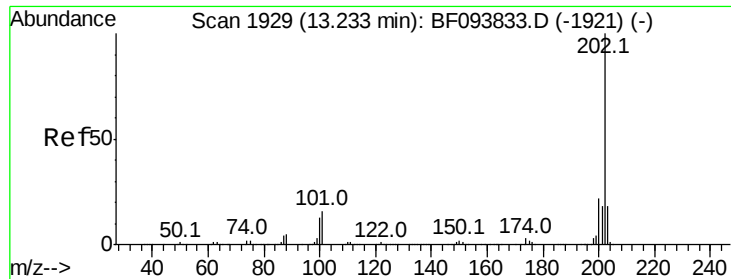
Delta R.T. -0.01 min

Lab File: BF094150.D

Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	15.9	5.8	8.8#	
236	26.6	20.5	30.7	





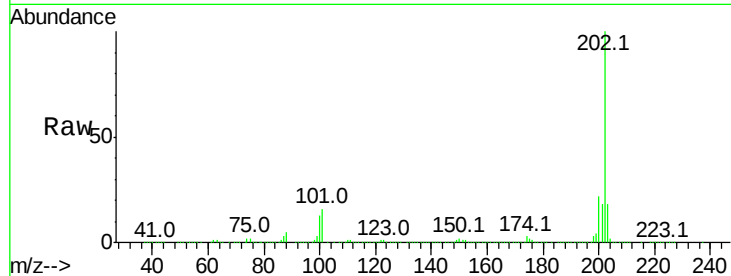
#77
Pvrene
Concen: 47.53 ng
RT: 13.13 min Scan# 1912
Delta R.T. -0.01 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

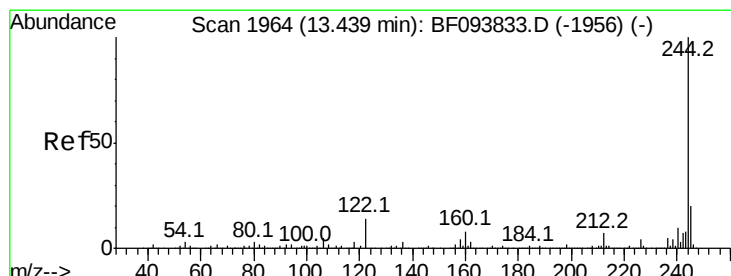
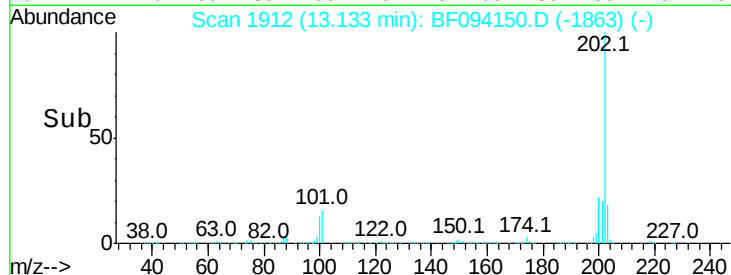
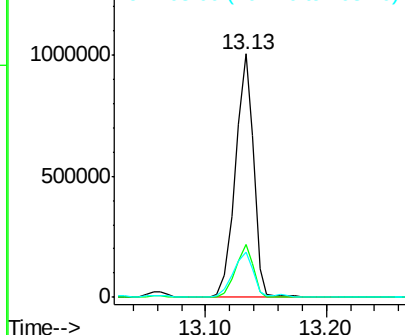
Tot Ion:202 Resp: 1046459
Ion Ratio Lower Upper
202 100
200 21.6 17.6 26.4
203 18.4 14.4 21.6

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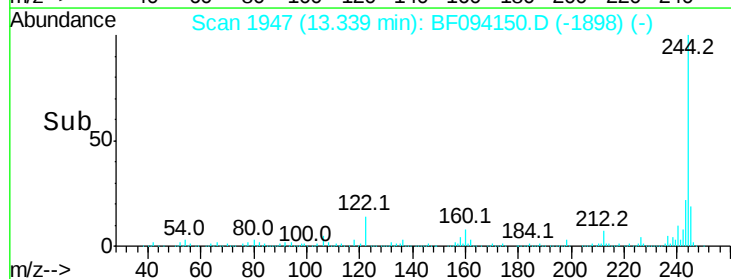
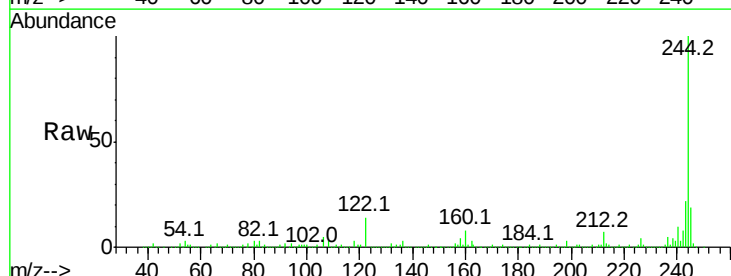
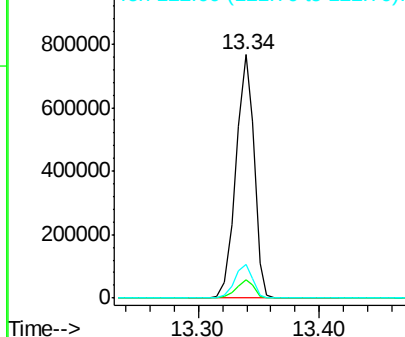
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

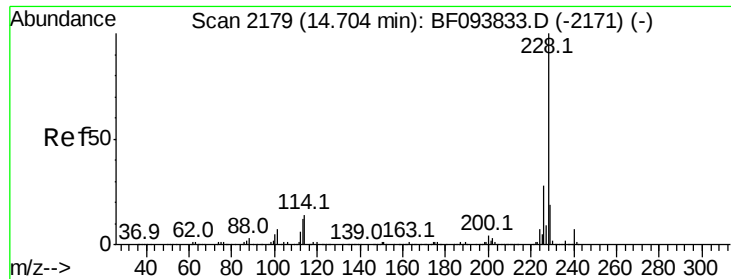


#78
Terphenyl-d14
Concen: 59.57 ng
RT: 13.34 min Scan# 1947
Delta R.T. -0.01 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion:244 Resp: 806330
Ion Ratio Lower Upper
244 100
212 7.5 6.0 9.0
122 13.9 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





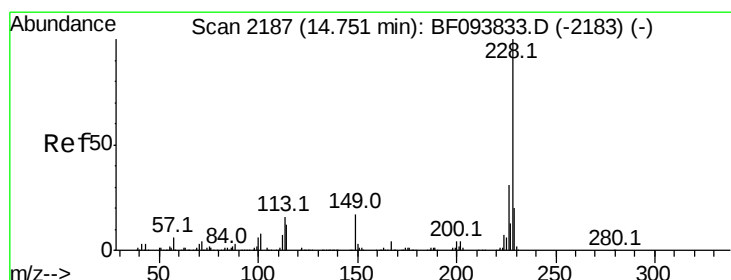
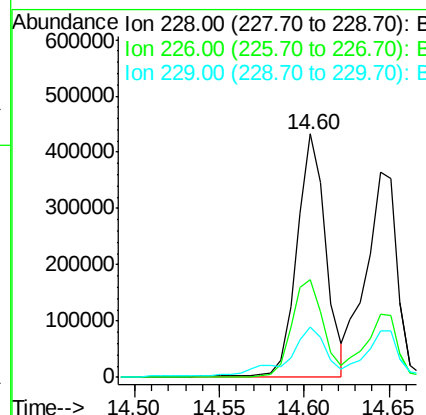
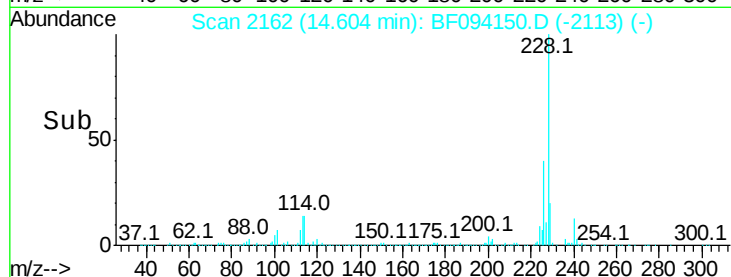
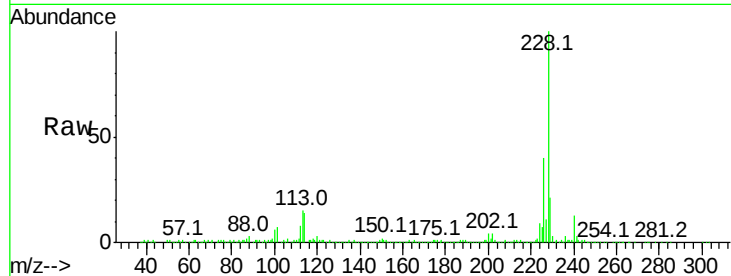
#80
Benzo(a)anthracene
Concen: 28.95 ng
RT: 14.60 min Scan# 2162
Delta R.T. -0.01 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

Tot Ion	Ratio	Lower	Upper
228	100		
226	40.2	22.6	33.8#
229	20.6	16.3	24.5

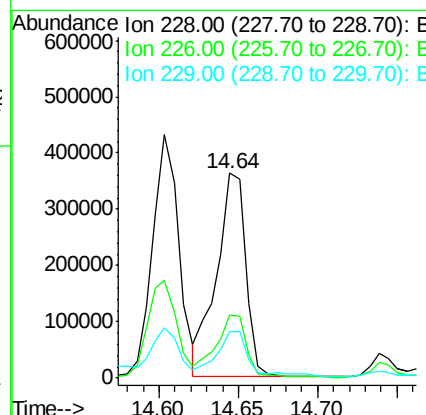
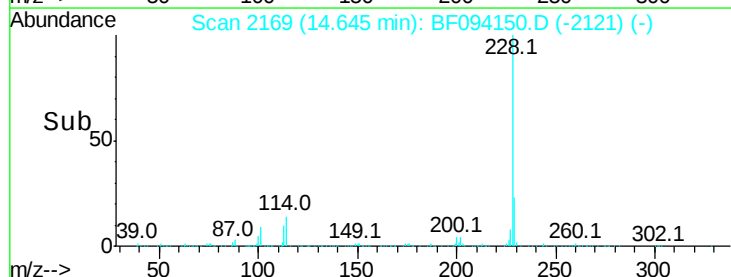
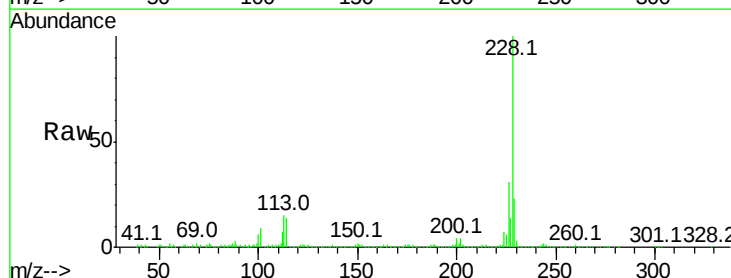
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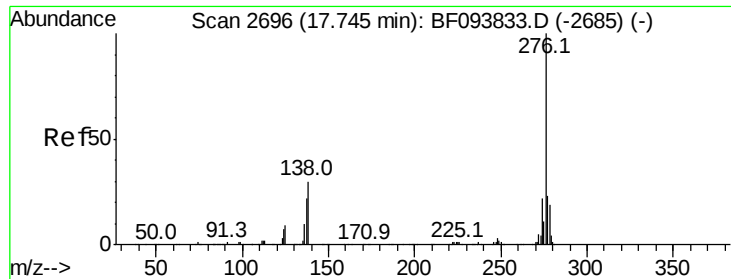
mohammad
4/4/2017 5:35:00 PM



#82
Chrysene
Concen: 28.44 ng
RT: 14.64 min Scan# 2169
Delta R.T. -0.02 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.9	37.3
229	23.0	15.8	23.6





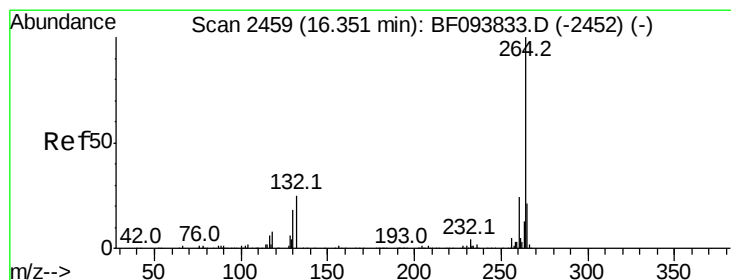
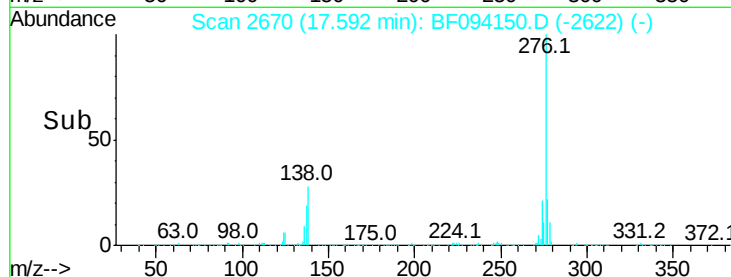
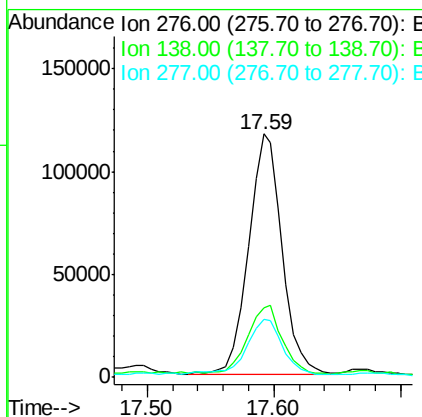
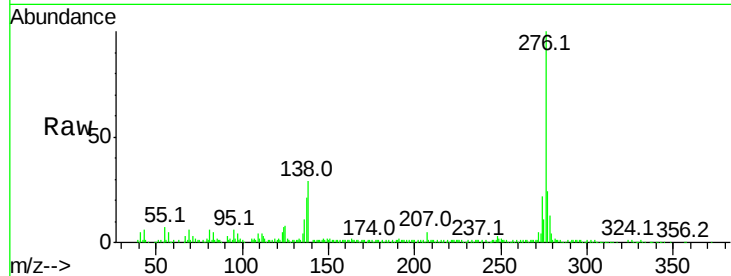
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 15.17 ng
 RT: 17.59 min Scan# 2670
 Delta R.T. -0.02 min
 Lab File: BF094150.D
 Acq: 4 Apr 2017 6:09

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-11-12-BASE

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

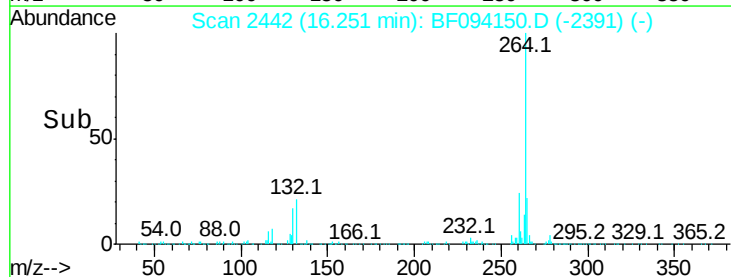
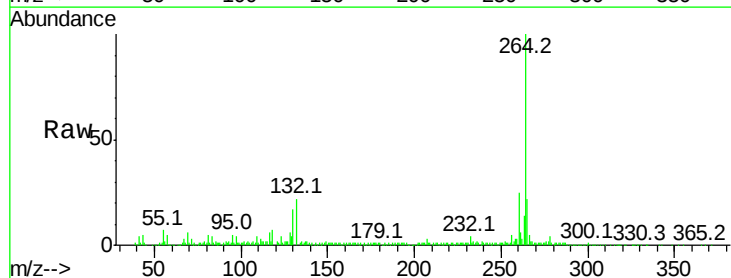
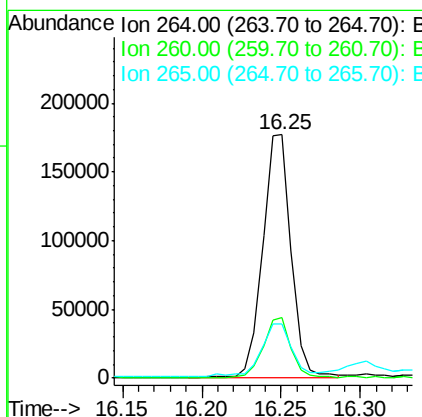
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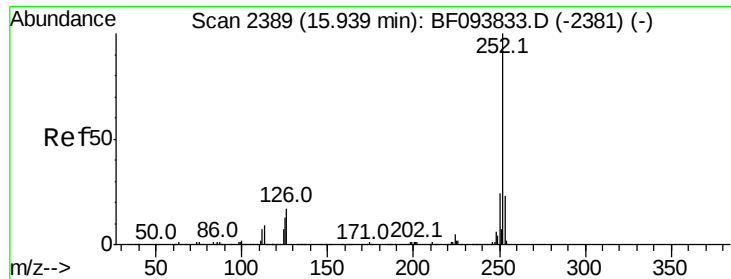
mohammad
 4/4/2017 5:35:00 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.25 min Scan# 2442
 Delta R.T. -0.00 min
 Lab File: BF094150.D
 Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	22.4	17.2	25.8





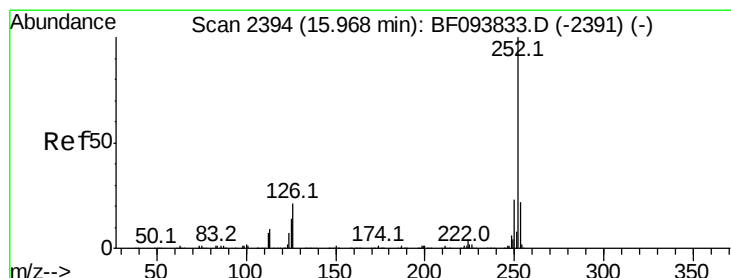
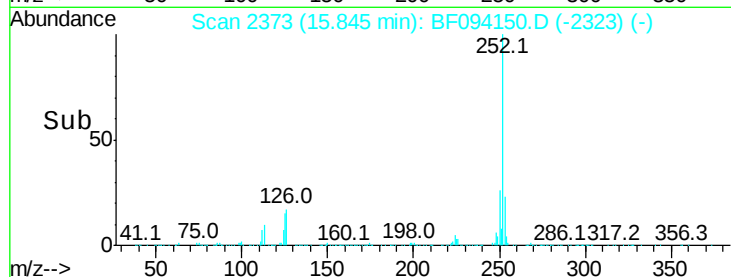
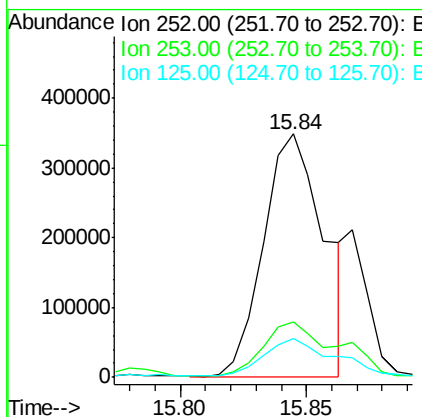
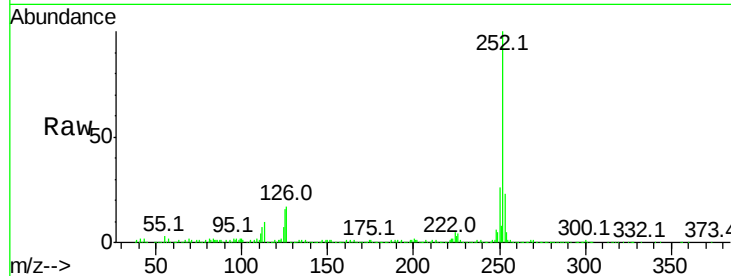
#87
Benzo(b)fluoranthene
Concen: 43.20 ng m
RT: 15.84 min Scan# 2373
Delta R.T. -0.01 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	16.1	9.8	14.8

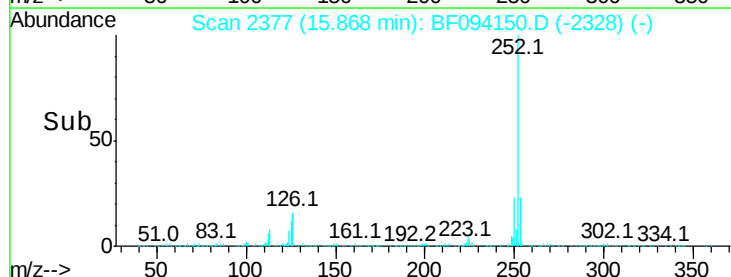
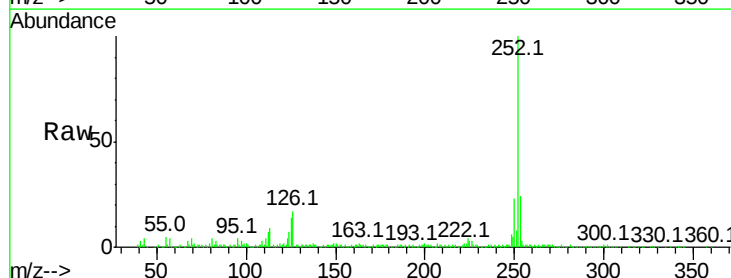
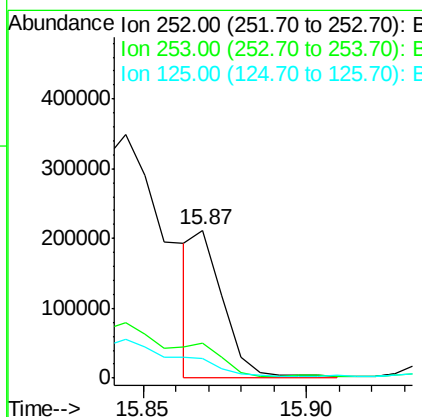
Manual Integrations
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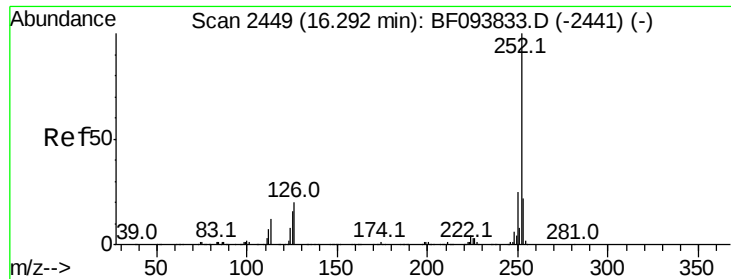
mohammad
4/4/2017 5:35:00 PM



#88
Benzo(k)fluoranthene
Concen: 10.27 ng m
RT: 15.87 min Scan# 2377
Delta R.T. -0.01 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	13.6	13.1	19.7





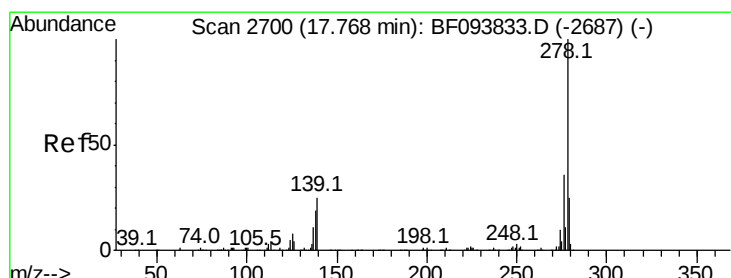
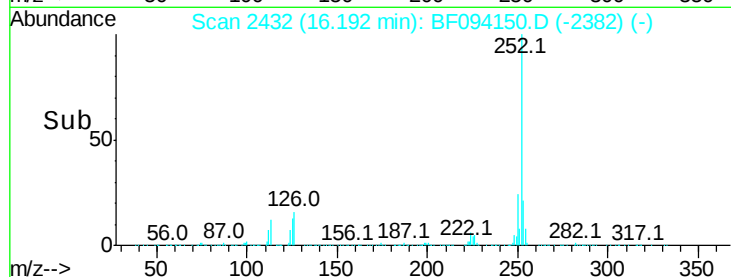
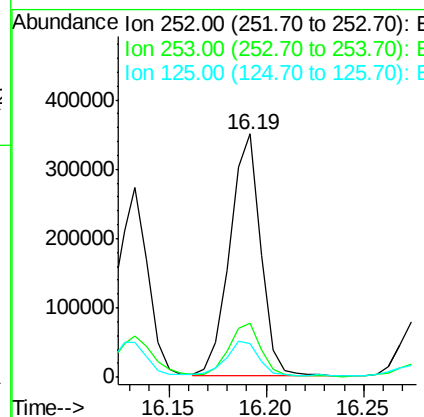
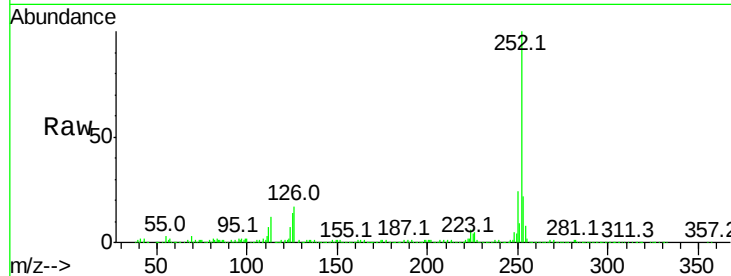
#89
Benzo(a)pyrene
Concen: 30.76 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.01 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-11-12-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	13.7	11.0	16.4

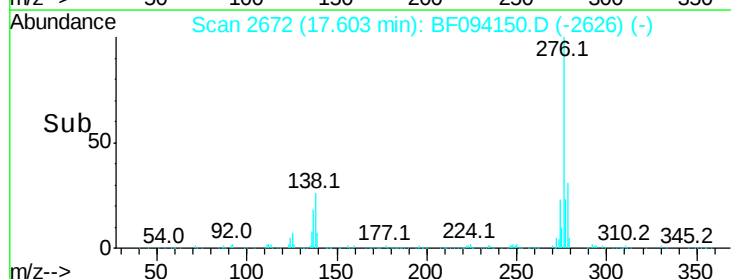
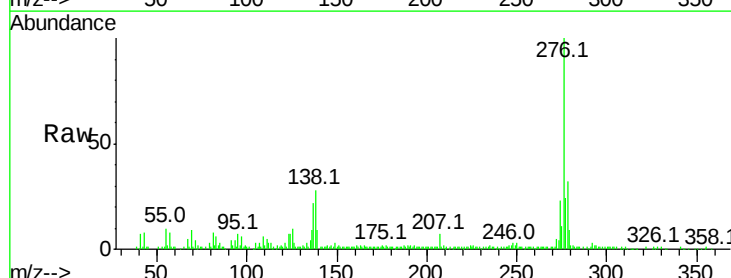
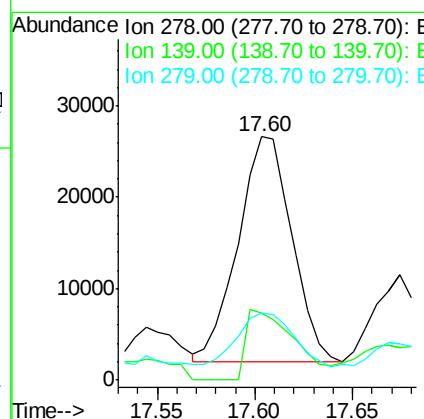
Manual Integrations
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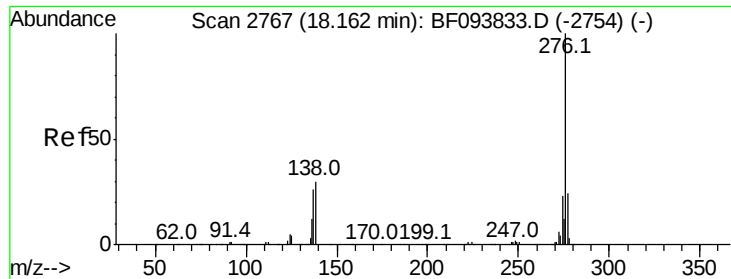
mohammad
4/4/2017 5:35:00 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.45 ng
RT: 17.60 min Scan# 2672
Delta R.T. -0.03 min
Lab File: BF094150.D
Acq: 4 Apr 2017 6:09

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.3	16.6	24.8#
279	27.3	19.3	28.9





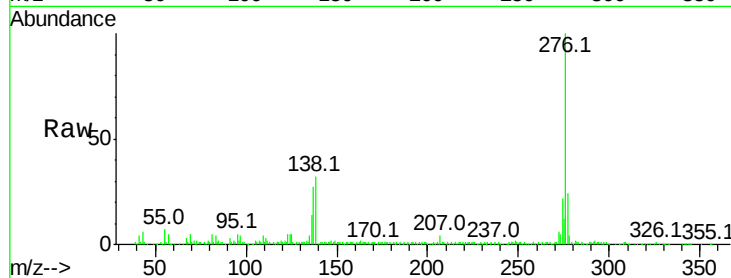
#91
 Benzo(a,h,i)perylene
 Concen: 22.40 ng
 RT: 17.99 min Scan# 2738
 Delta R.T. -0.02 min
 Lab File: BF094150.D
 Acq: 4 Apr 2017 6:09

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-11-12-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	28.0
138	32.3	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 4/4/2017 5:35:00 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

