

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094045.D
 Acq On : 30 Mar 2017 5:23
 Operator : SJ/MA
 Sample : I2443-04
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-P12.5-ESW

Manual Integrations
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Quant Time: Mar 30 07:11:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	167997	20.00	ng	-0.03
21) Naphthalene-d8	7.42	136	670035	20.00	ng	-0.04
38) Acenaphthene-d10	9.56	164	300599	20.00	ng	-0.04
63) Phenanthrene-d10	11.39	188	512992	20.00	ng	-0.03
75) Chrysene-d12	14.64	240	333747	20.00	ng	-0.04
86) Perylene-d12	16.28	264	292119	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	1044806	105.04	ng	-0.02
7) Phenol-d6	5.53	99	1357602	110.33	ng	-0.02
23) Nitrobenzene-d5	6.57	82	859808	73.23	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	231943	97.64	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	1444304	73.29	ng	-0.03
78) Terphenyl-d14	13.37	244	981463	65.92	ng	-0.04
Target Compounds						Qvalue
31) Naphthalene	7.45	128	93550	2.90	ng	99
49) Dimethylphthalate	9.24	163	106849	5.00	ng	100
51) Acenaphthene	9.60	154	71237	3.87	ng	98
54) Dibenzofuran	9.82	168	117184	4.68	ng	98
57) Fluorene	10.24	166	108031m	5.20	ng	
70) Phenanthrene	11.43	178	1562126	54.74	ng	99
71) Anthracene	11.48	178	261626	8.90	ng	98
72) Carbazole	11.68	167	188728	6.26	ng	97
74) Fluoranthene	12.89	202	1699066	58.15	ng	100
77) Pyrene	13.17	202	1480061	61.11	ng	100
80) Benzo(a)anthracene	14.63	228	578326	29.72	ng	98
82) Chrysene	14.68	228	621342	34.40	ng	97
85) Indeno(1,2,3-cd)pyrene	17.64	276	333973	21.35	ng	96
87) Benzo(b)fluoranthene	15.87	252	687116m	38.37	ng	
88) Benzo(k)fluoranthene	15.90	252	260044m	14.84	ng	
89) Benzo(a)pyrene	16.22	252	510708	30.97	ng	98
90) Dibenzo(a,h)anthracene	17.65	278	84615	6.06	ng	93
91) Benzo(g,h,i)perylene	18.04	276	318810	22.65	ng	99

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

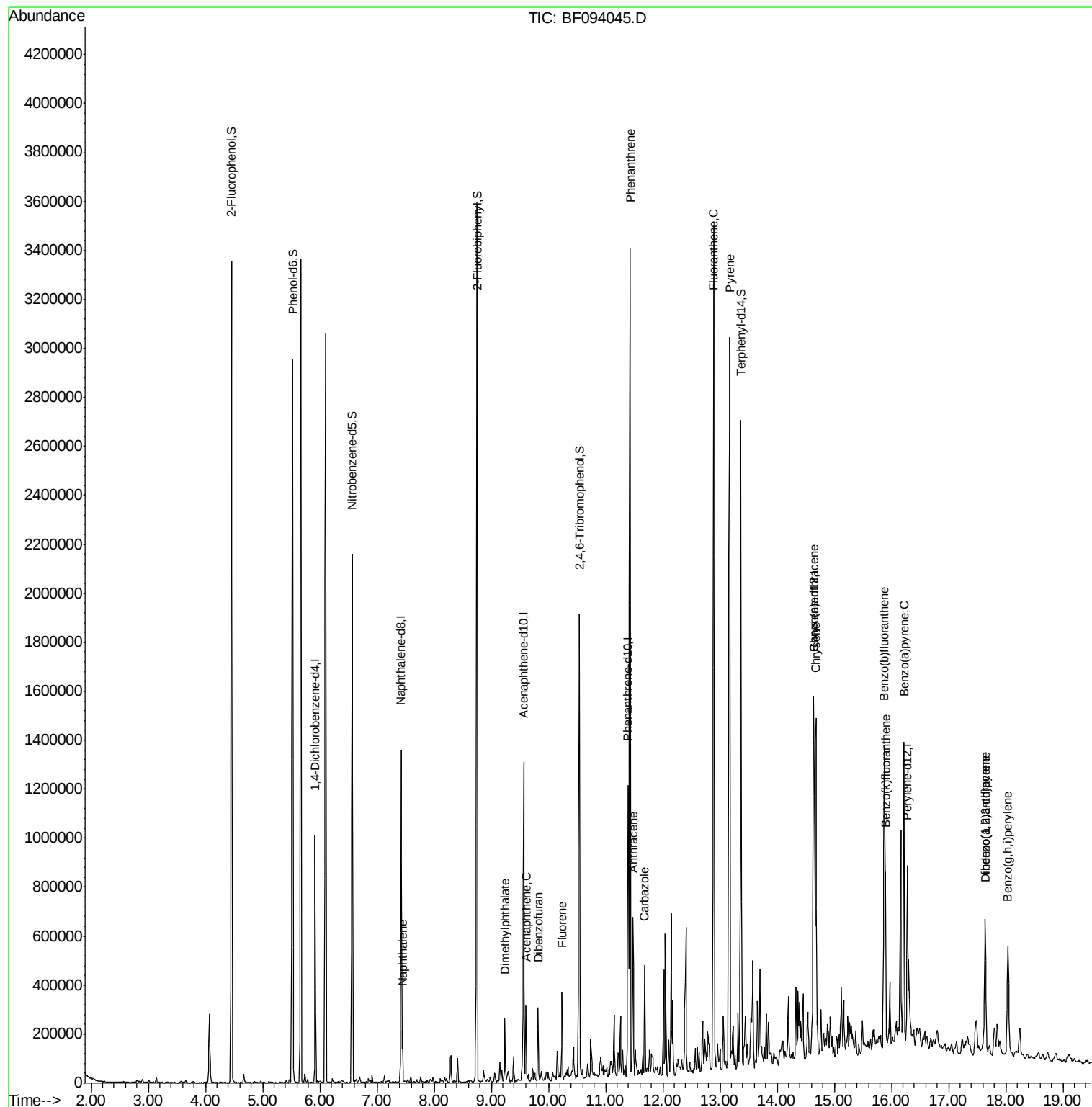
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
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#1

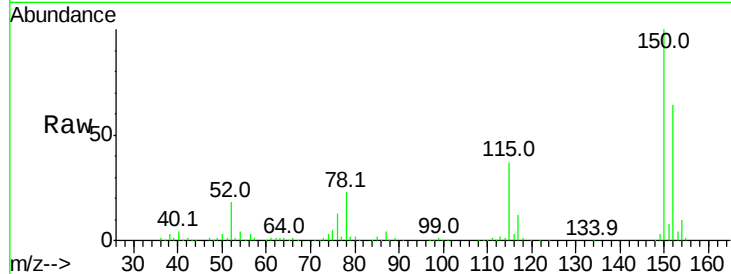
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

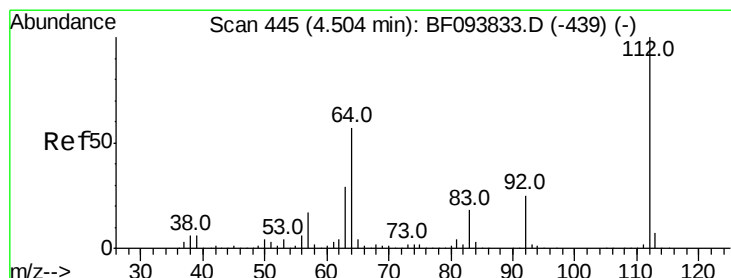
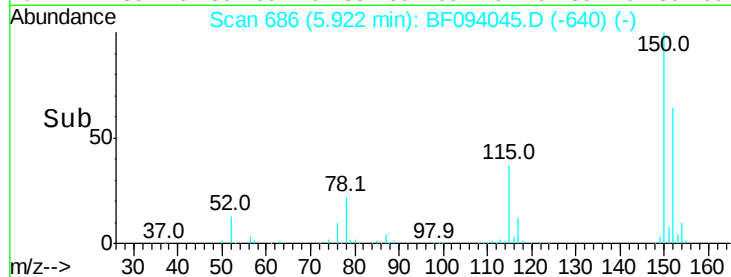
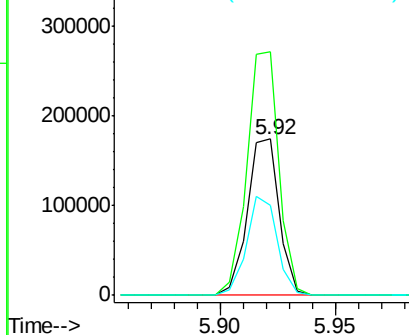
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	126.2	189.2
115	57.8	52.2	78.2

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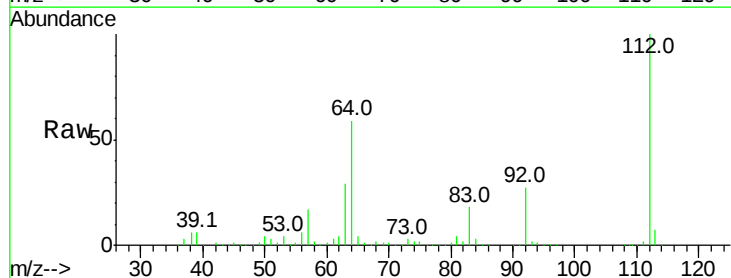
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



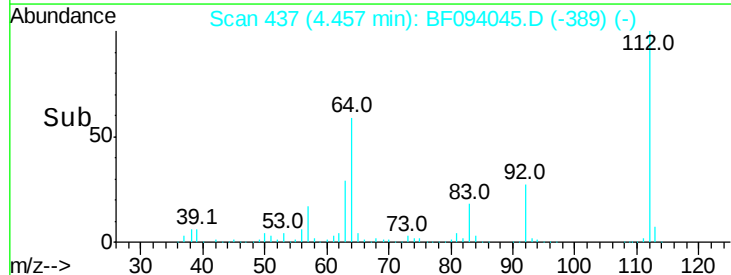
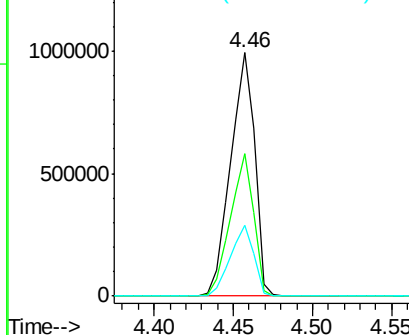
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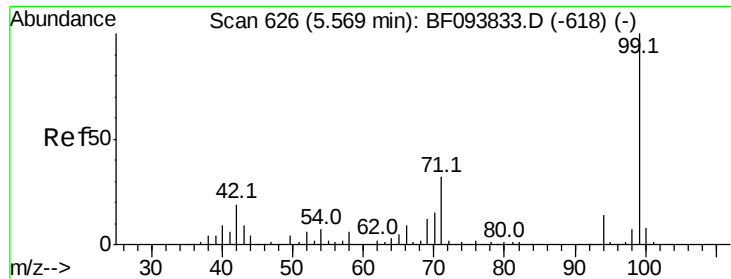
2-Fluorophenol
Concen: 105.04 ng
RT: 4.46 min Scan# 437
Delta R.T. -0.02 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	46.0	69.0
63	28.8	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: 110.33 ng

RT: 5.53 min Scan# 619

Delta R.T. -0.02 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA_F

ClientSampleId :

E2-P12.5-ESW

Tot Ion: 99 Resp: 1357602

Ion Ratio Lower Upper

99 100

42 17.0 13.5 20.3

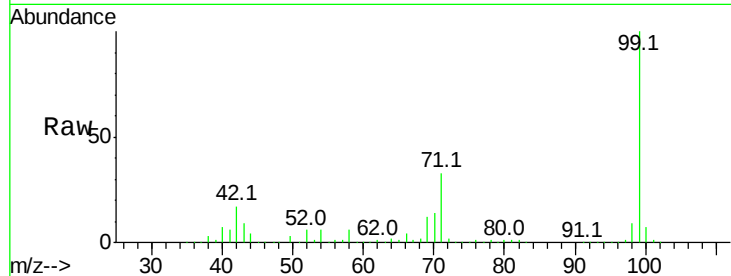
71 32.9 24.5 36.7

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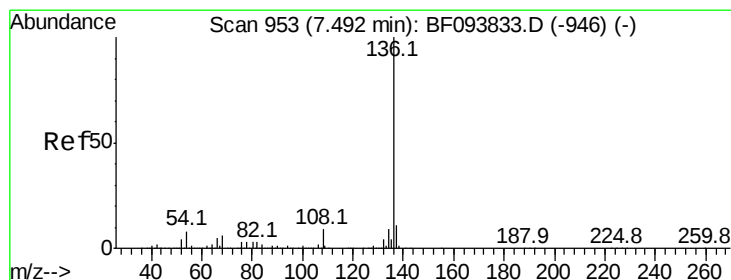
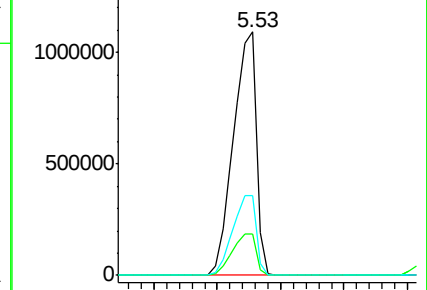
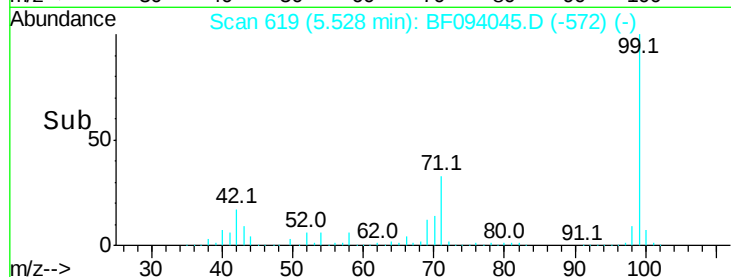
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.42 min Scan# 941

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Tgt Ion: 136 Resp: 670035

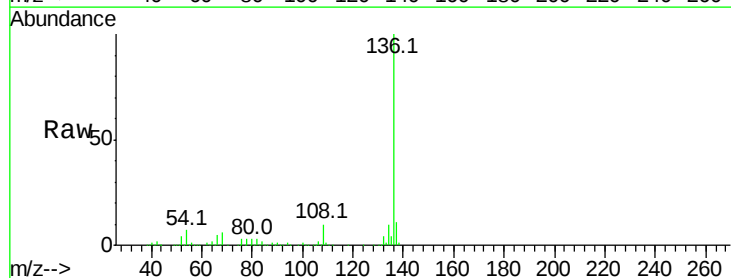
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 7.3 4.9 7.3#

68 6.0 4.1 6.1

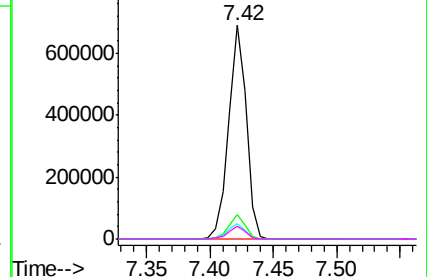
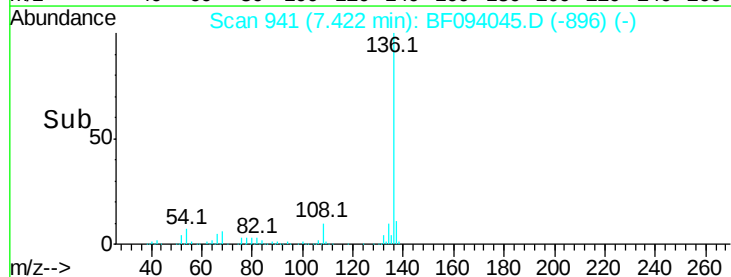


Abundance Ion 136.00 (135.70 to 136.70): E

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





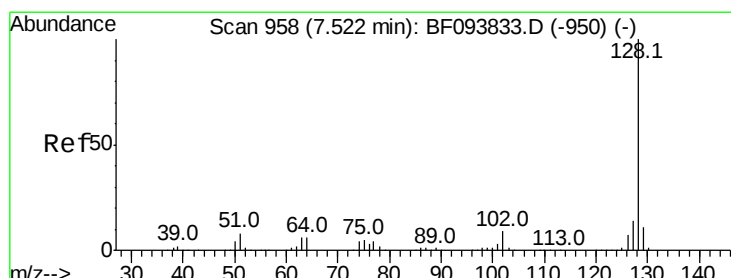
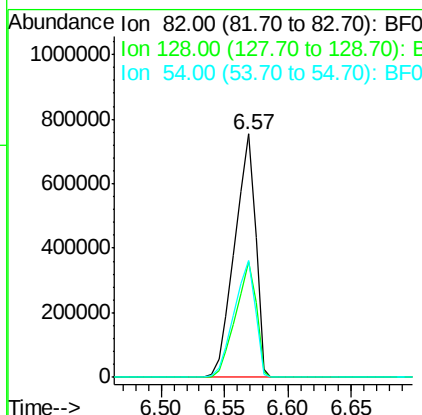
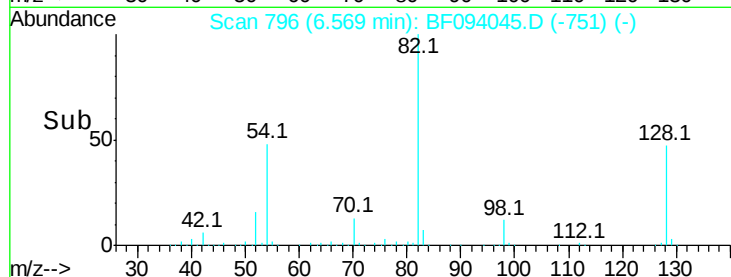
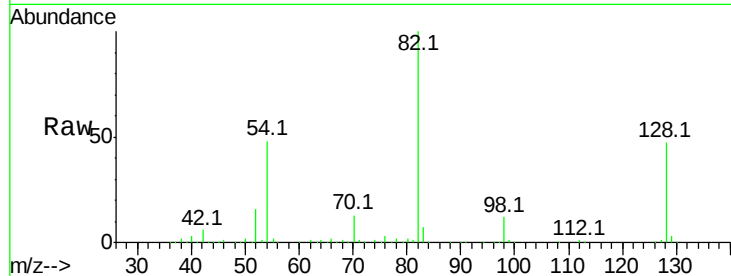
#23
Nitrobenzene-d5
Concen: 73.23 ng
RT: 6.57 min Scan# 796
Delta R.T. -0.04 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.4	34.0	51.0	
54	48.0	42.2	63.2	

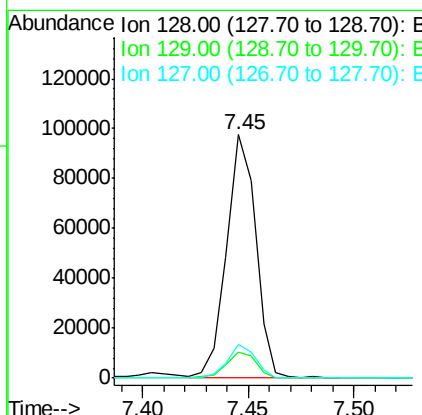
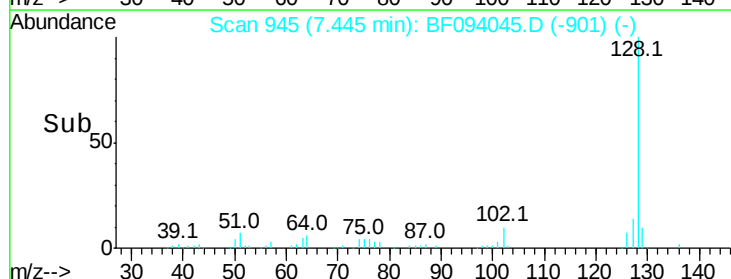
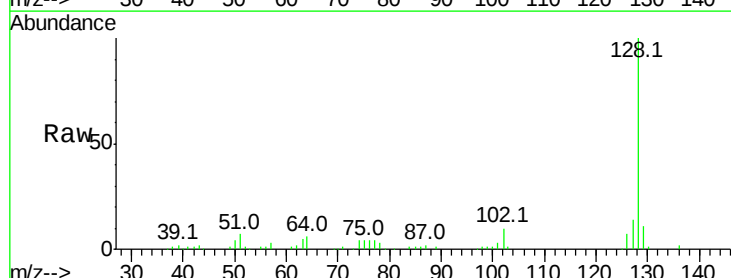
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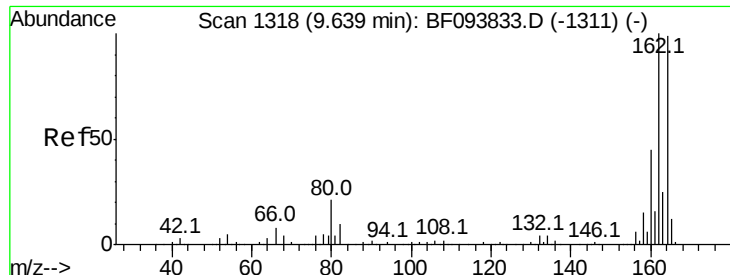
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#31
Naphthalene
Concen: 2.90 ng
RT: 7.45 min Scan# 945
Delta R.T. -0.04 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.9	9.0	13.6	
127	13.9	10.8	16.2	





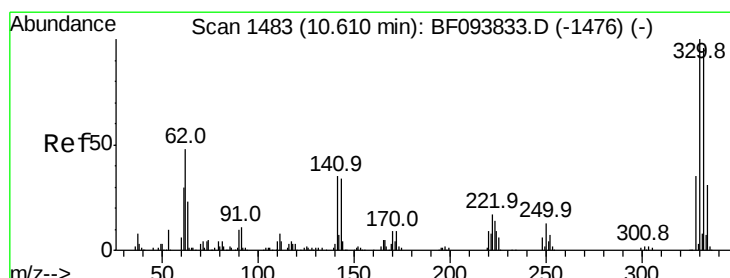
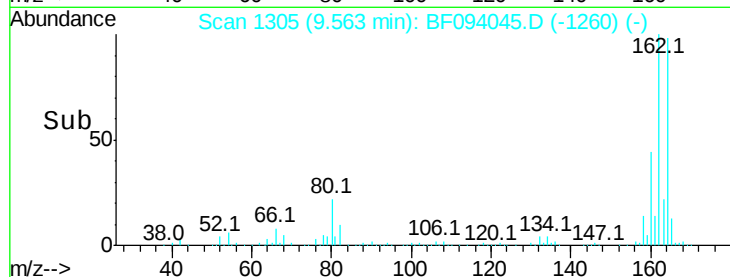
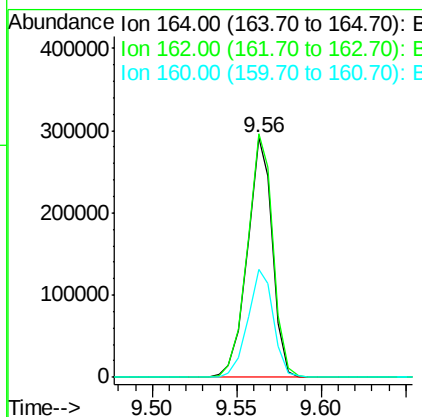
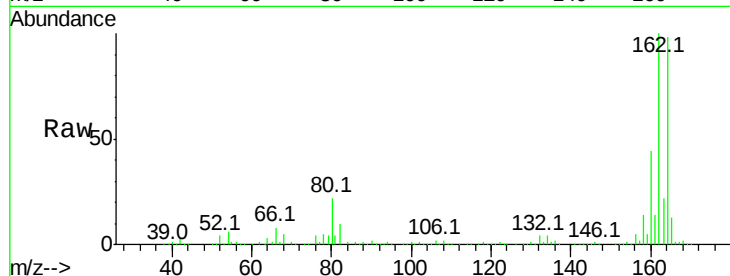
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.56 min Scan# 1305
Delta R.T. -0.04 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.6	82.6	123.8	
160	45.2	36.2	54.2	

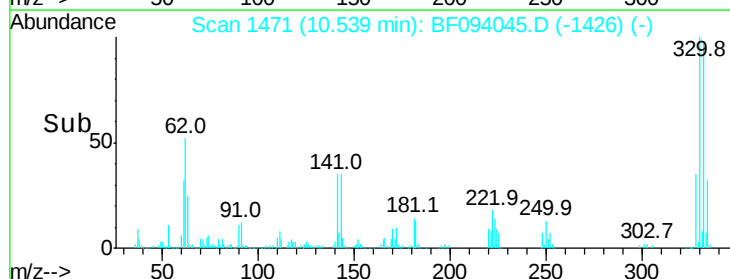
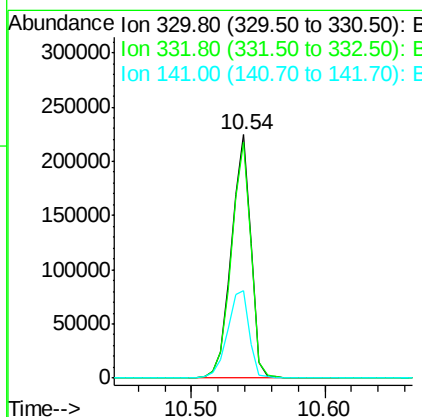
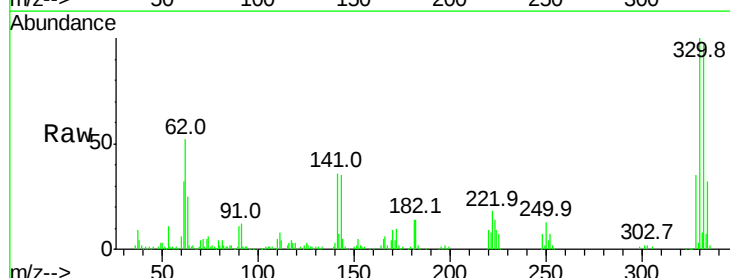
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#41
2,4,6-Tribromophenol
Concen: 97.64 ng
RT: 10.54 min Scan# 1471
Delta R.T. -0.04 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.4	76.6	115.0	
141	39.5	31.4	47.2	





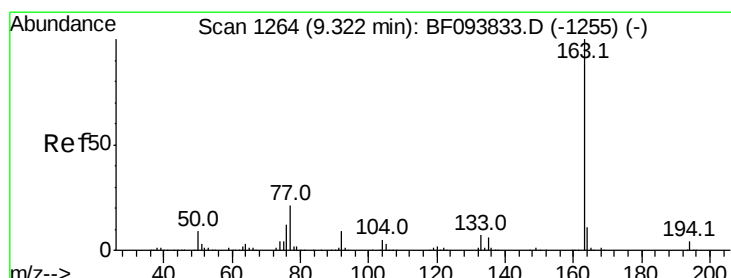
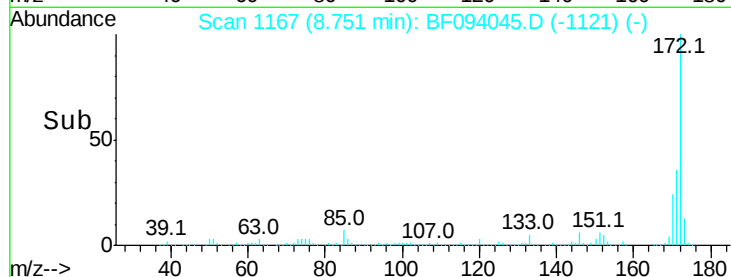
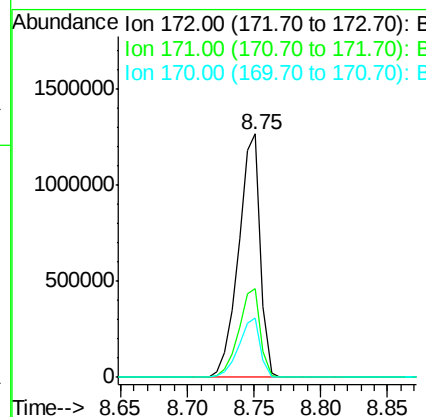
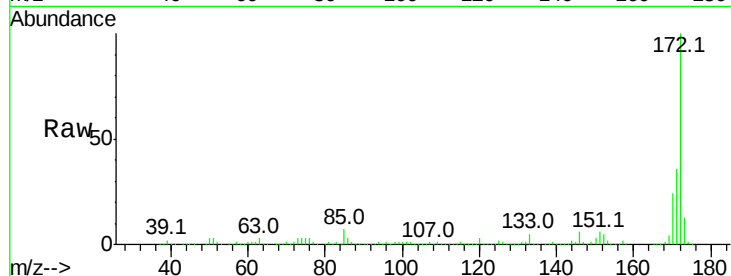
#44
2-Fluorobiphenyl
Concen: 73.29 ng
RT: 8.75 min Scan# 1167
Delta R.T. -0.03 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.6	44.4
170	24.2	19.8	29.8

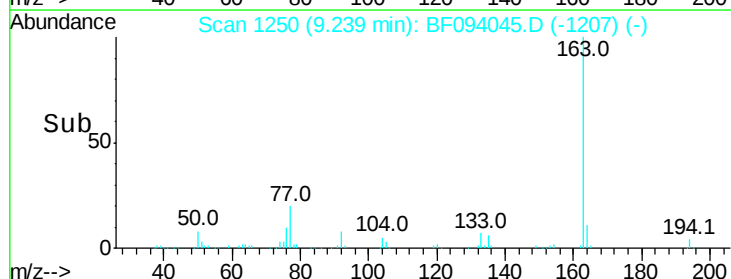
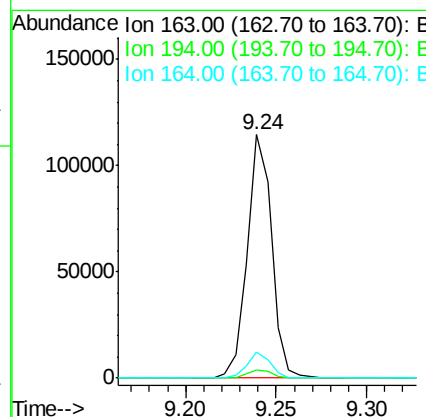
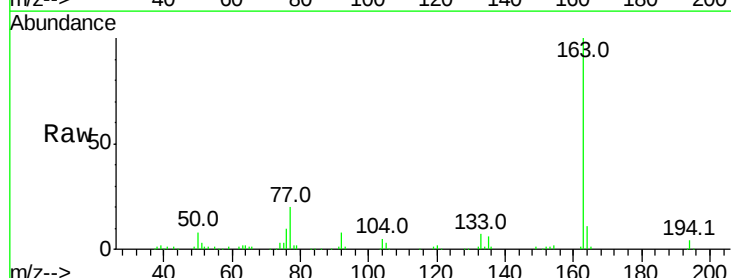
Manual Integrations
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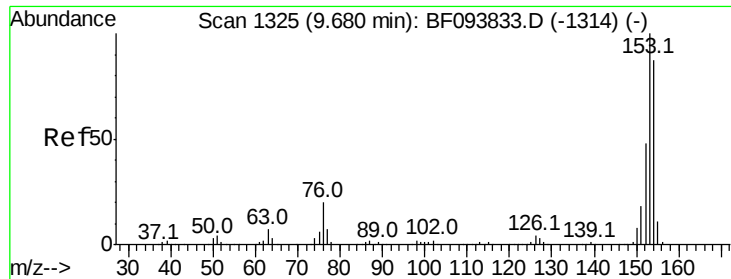
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#49
Dimethylphthalate
Concen: 5.00 ng
RT: 9.24 min Scan# 1250
Delta R.T. -0.05 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.6	4.0
164	10.6	8.4	12.6





#51

Acenaphthene

Concen: 3.87 ng

RT: 9.60 min Scan# 1312

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA_F

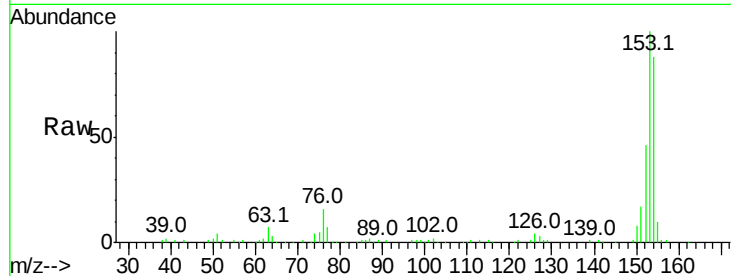
ClientSampleId :

E2-P12.5-ESW

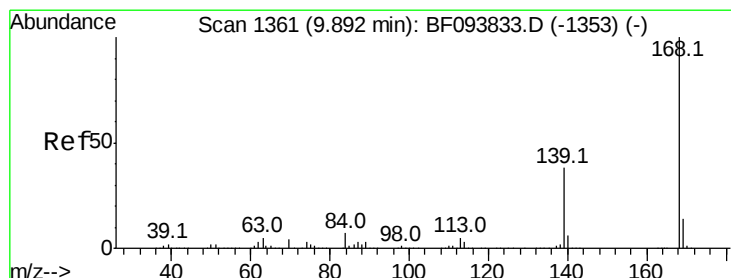
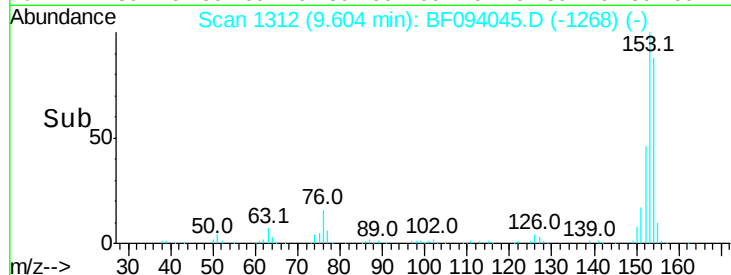
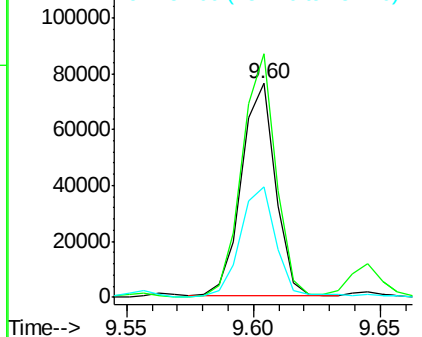
Tot Ion:	154	Resp:	71237
Ion	Ratio	Lower	Upper
154	100		
153	113.7	90.5	135.7
152	51.8	43.6	65.4

Manual Integrations
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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

Dibenzofuran

Concen: 4.68 ng

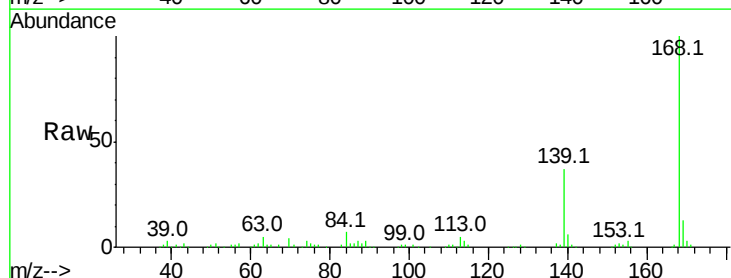
RT: 9.82 min Scan# 1348

Delta R.T. -0.04 min

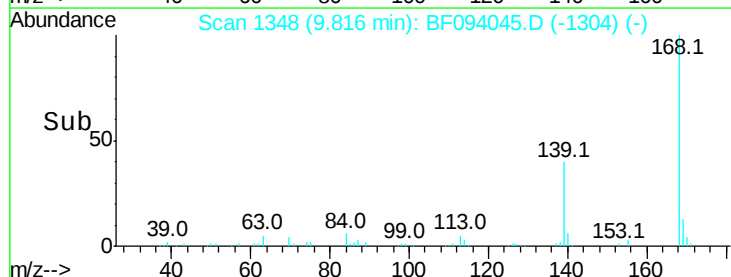
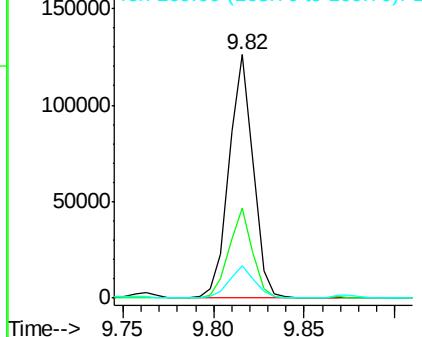
Lab File: BF094045.D

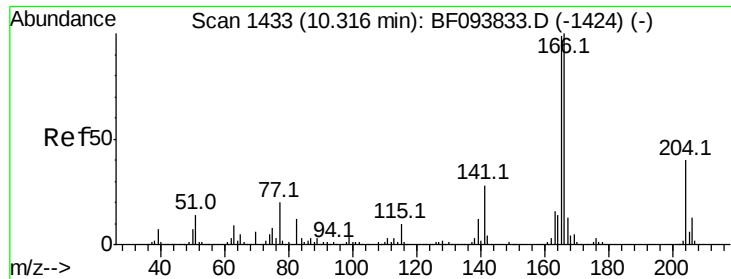
Acq: 30 Mar 2017 5:23

Tgt Ion:	168	Resp:	117184
Ion	Ratio	Lower	Upper
168	100		
139	37.0	30.6	45.8
169	13.4	10.8	16.2



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





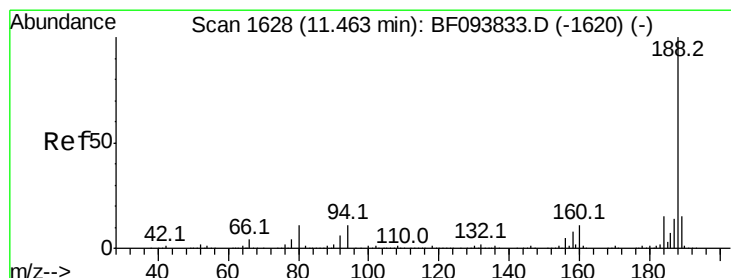
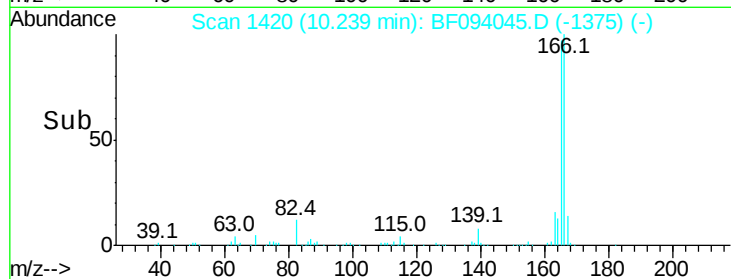
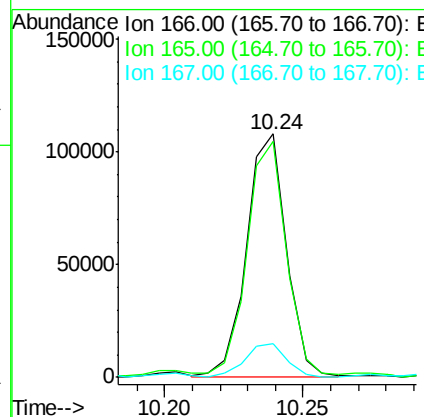
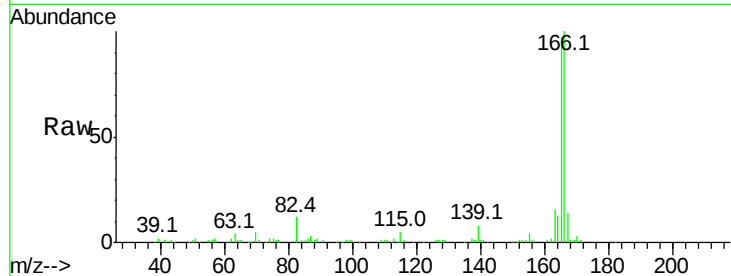
#57
Fluorene
 Concen: 5.20 ng/ml
 RT: 10.24 min Scan# 1420
 Delta R.T. -0.04 min
 Lab File: BF094045.D
 Acq: 30 Mar 2017 5:23

Instrument :
 BNA_F
 ClientSampleId :
 E2-P12.5-ESW

Tot Ion	Ratio	Resp	Lower	Upper
166	100	108031		
165	96.8	78.8	118.2	
167	13.9	10.6	16.0	

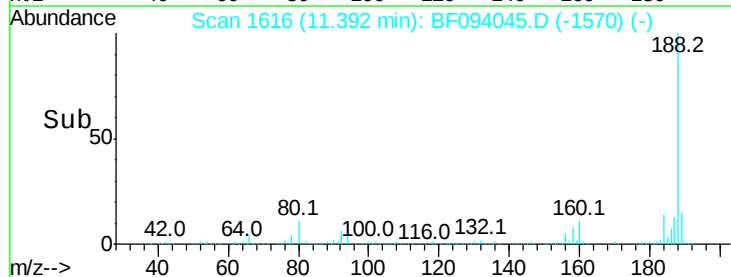
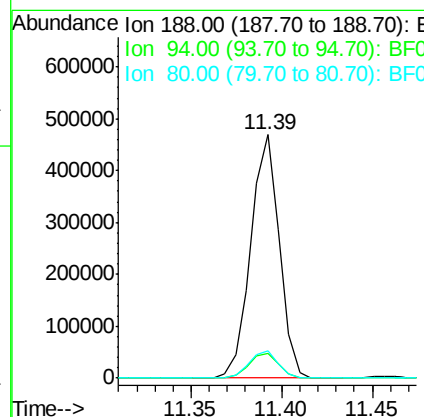
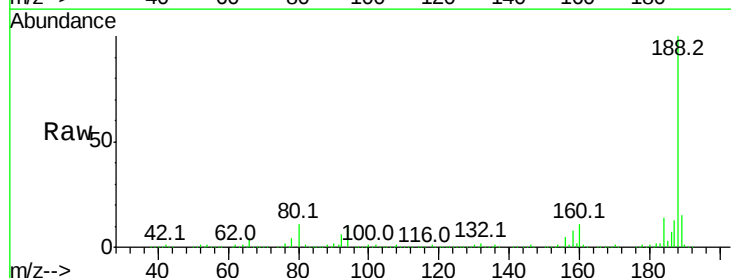
Manual Integrations
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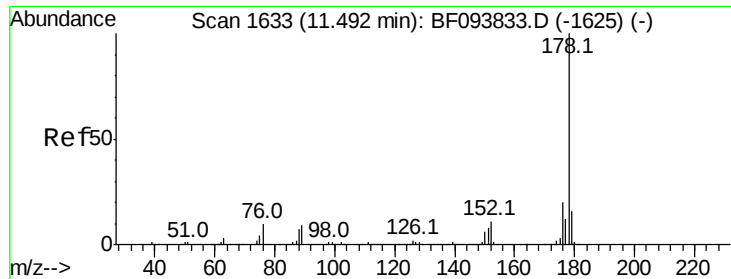
mohammad
 3/30/2017 2:32:17 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.39 min Scan# 1616
 Delta R.T. -0.03 min
 Lab File: BF094045.D
 Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	512992		
94	10.2	9.4	14.2	
80	11.3	10.2	15.2	





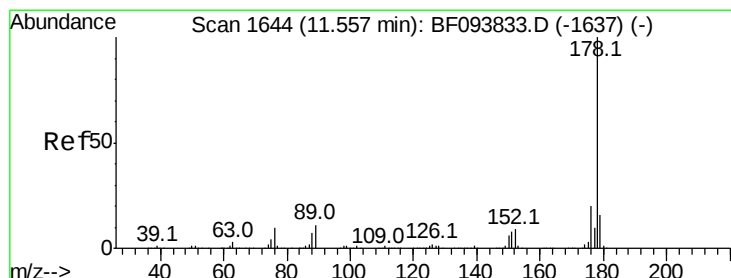
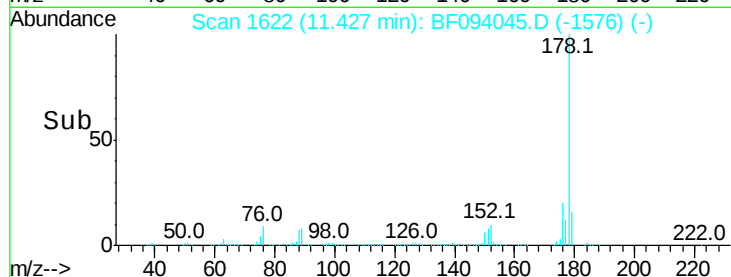
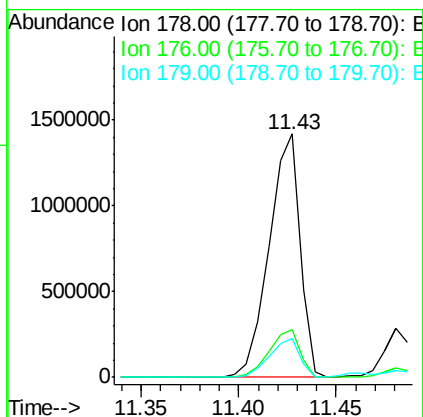
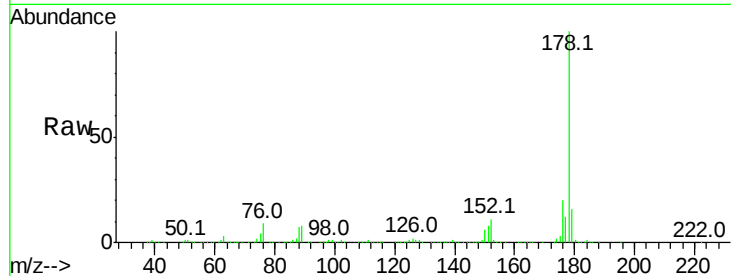
#70
Phenanthrene
Concen: 54.74 ng
RT: 11.43 min Scan# 1622
Delta R.T. -0.03 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

Tot Ion:178 Resp: 1562126
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 15.8 12.6 19.0

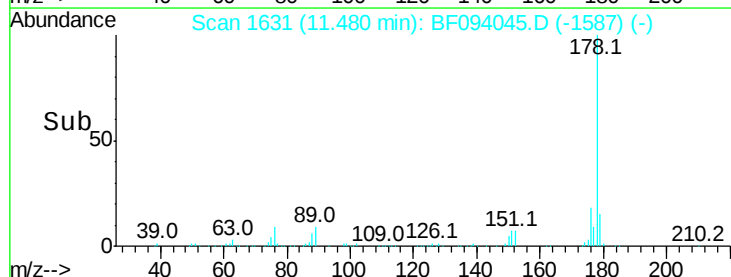
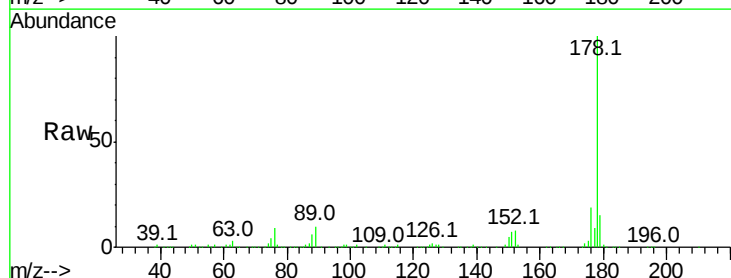
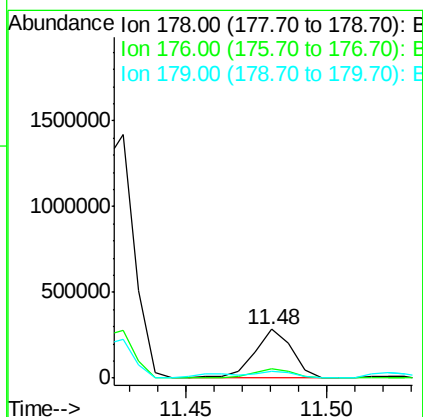
Manual Integrations
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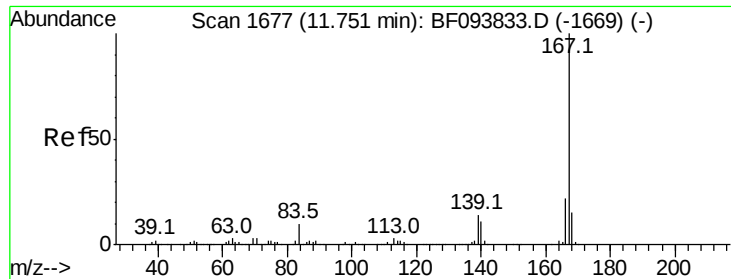
mohammad
3/30/2017 2:32:17 PM



#71
Anthracene
Concen: 8.90 ng
RT: 11.48 min Scan# 1631
Delta R.T. -0.04 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion:178 Resp: 261626
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.8
179 15.2 12.7 19.1





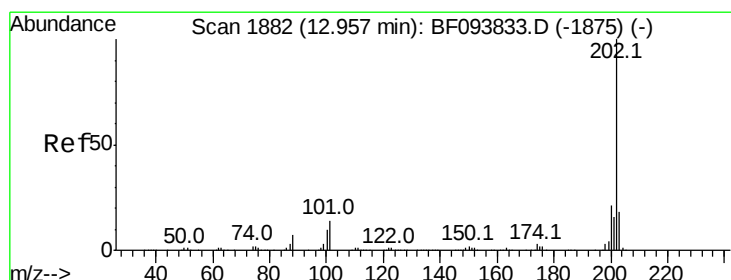
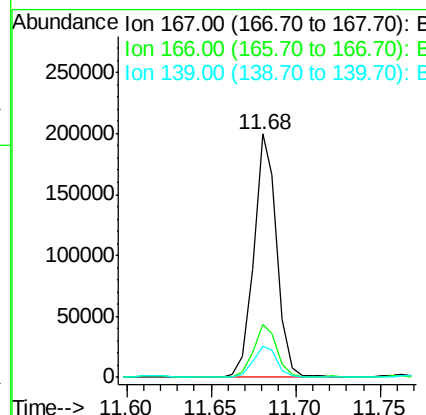
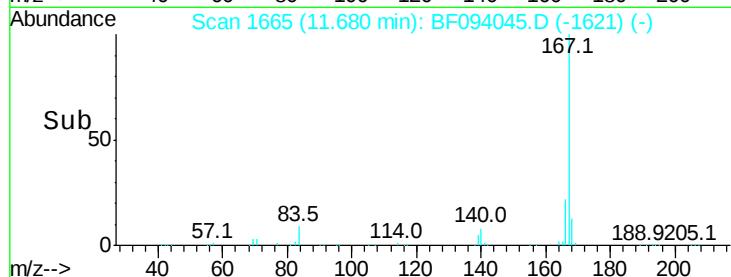
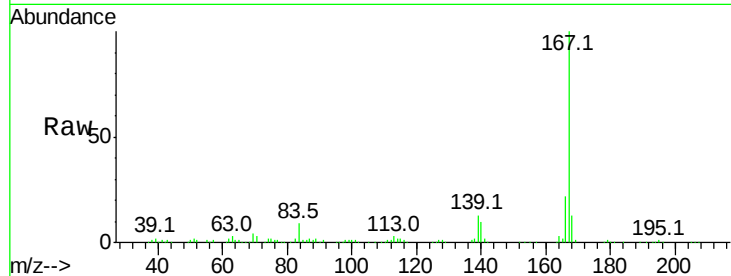
#72
 Carbazole
 Concen: 6.26 ng
 RT: 11.68 min Scan# 1665
 Delta R.T. -0.04 min
 Lab File: BF094045.D
 Acq: 30 Mar 2017 5:23

Instrument :
 BNA_F
 ClientSampled :
 E2-P12.5-ESW

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.8	18.1	27.1
139	12.9	11.7	17.5

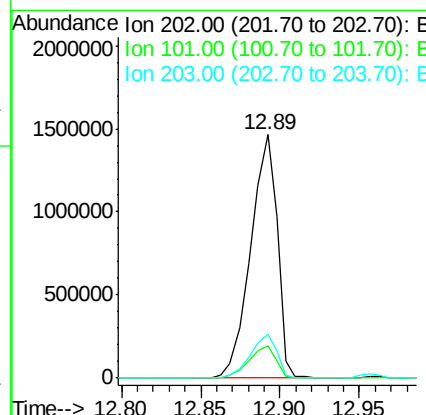
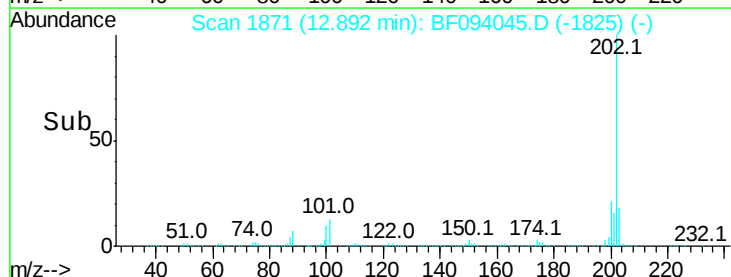
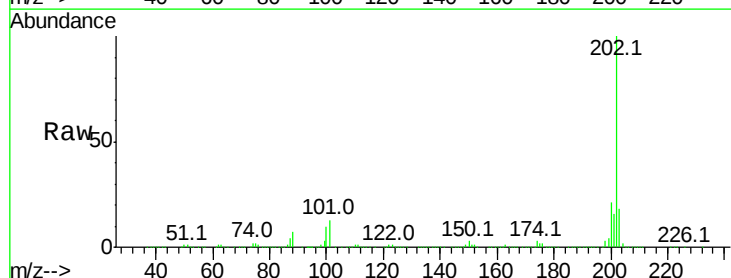
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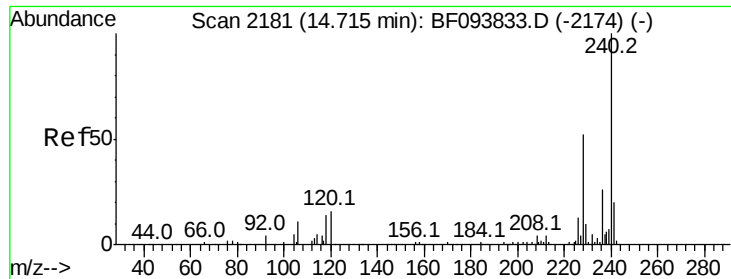
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#74
 Fluoranthene
 Concen: 58.15 ng
 RT: 12.89 min Scan# 1871
 Delta R.T. -0.03 min
 Lab File: BF094045.D
 Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	33.2
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.64 min Scan# 2169

Delta R.T. -0.04 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

Instrument :

BNA_F

ClientSampleId :

E2-P12.5-ESW

Tot Ion:240 Resp: 333747

Ion Ratio Lower Upper

240 100

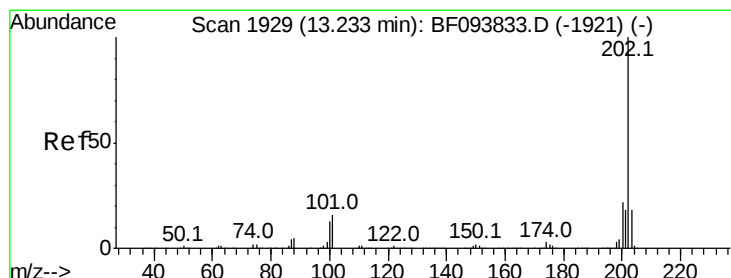
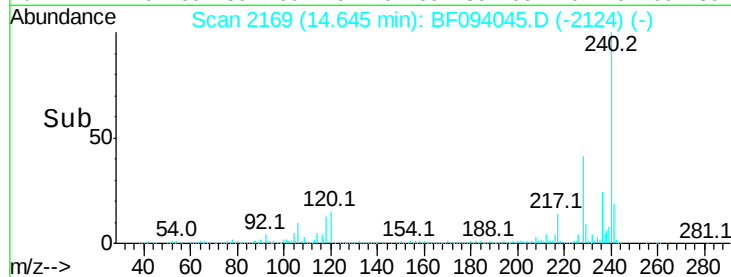
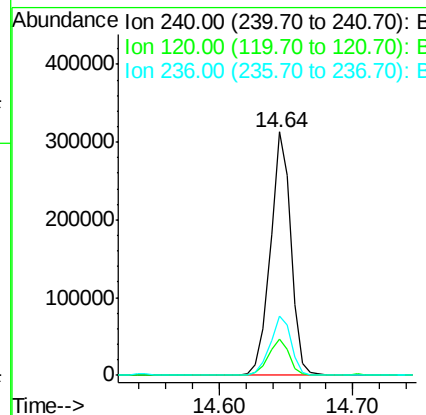
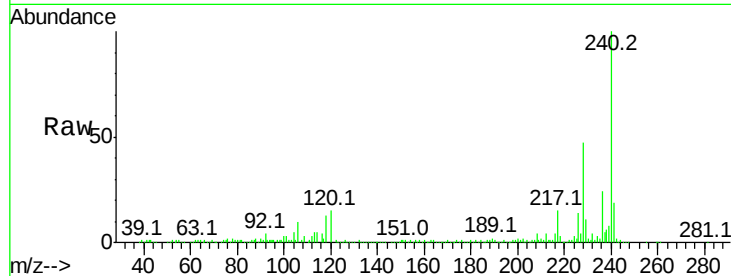
120 14.9 5.8 8.8#

236 24.2 20.5 30.7

Manual Integrations
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#77

Pyrene

Concen: 61.11 ng

RT: 13.17 min Scan# 1918

Delta R.T. -0.03 min

Lab File: BF094045.D

Acq: 30 Mar 2017 5:23

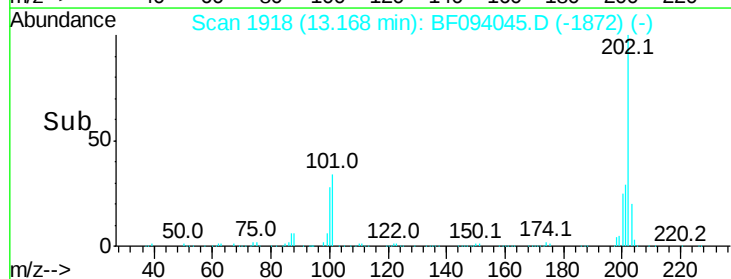
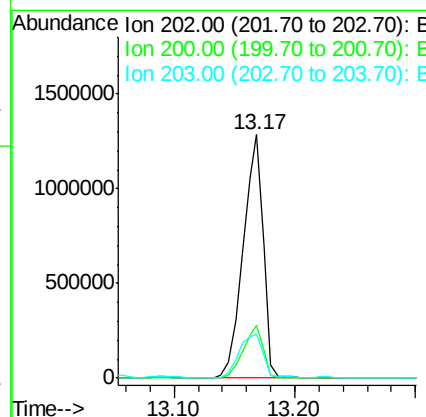
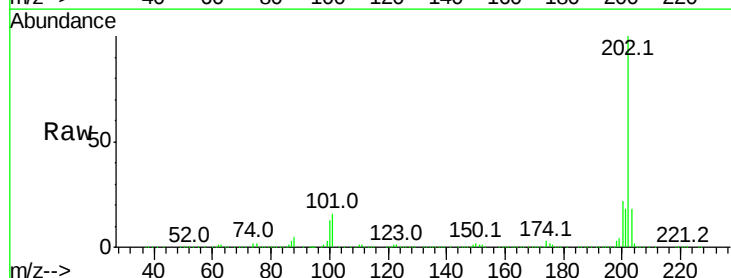
Tgt Ion:202 Resp: 1480061

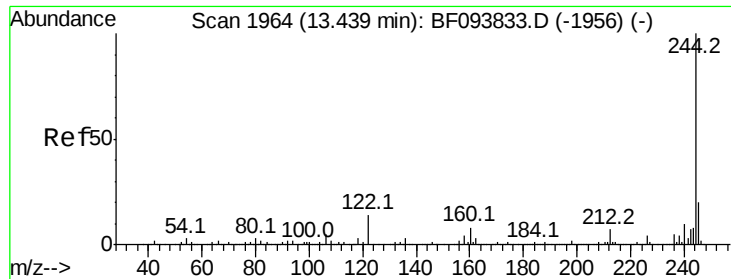
Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

203 17.8 14.4 21.6





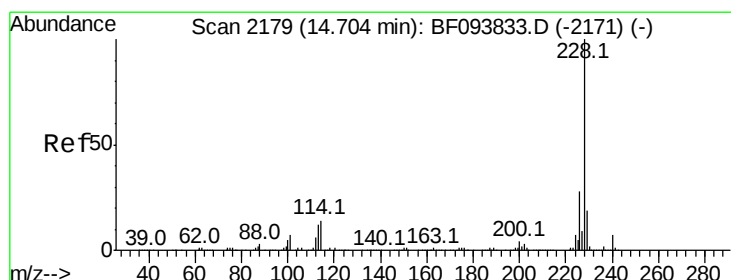
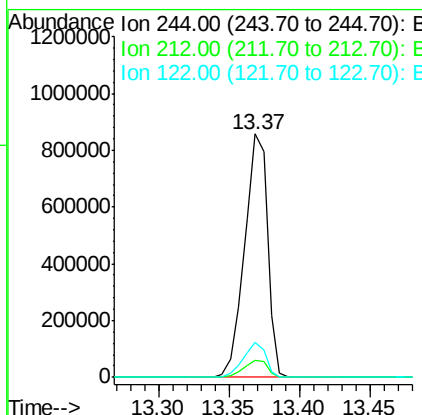
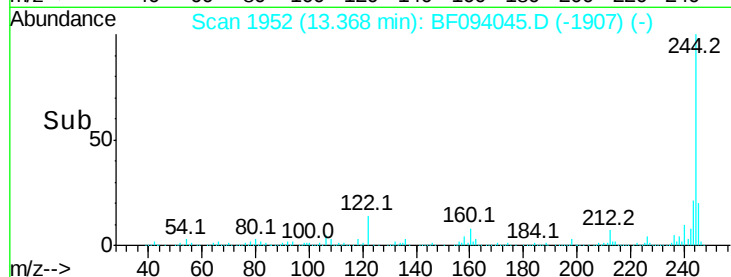
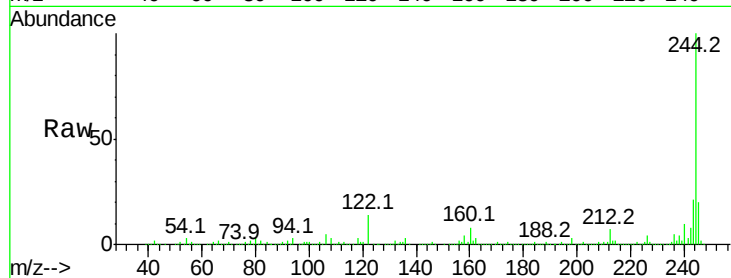
#78
 Terphenyl-d14
 Concen: 65.92 ng
 RT: 13.37 min Scan# 1952
 Delta R.T. -0.04 min
 Lab File: BF094045.D
 Acq: 30 Mar 2017 5:23

Instrument :
 BNA_F
 ClientSampleId :
 E2-P12.5-ESW

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	14.4	10.3	15.5

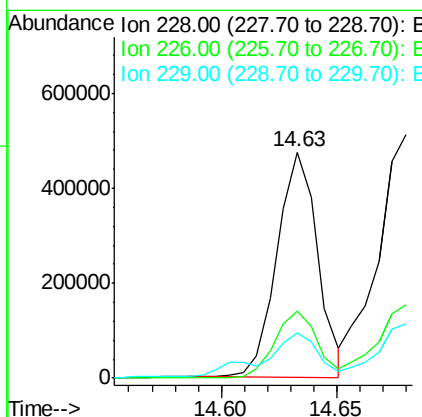
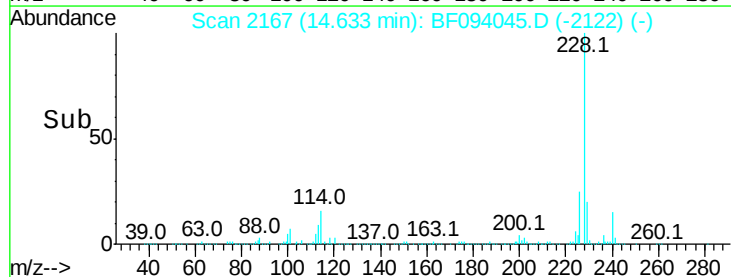
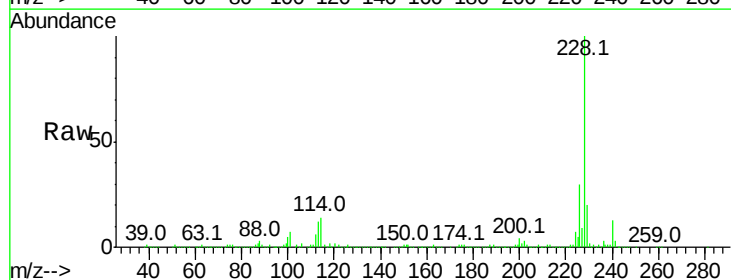
Manual Integrations
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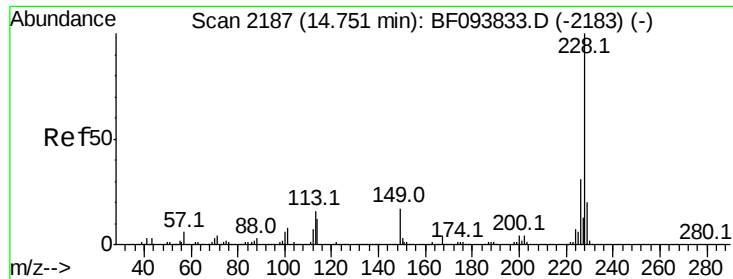
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#80
 Benzo(a)anthracene
 Concen: 29.72 ng
 RT: 14.63 min Scan# 2167
 Delta R.T. -0.04 min
 Lab File: BF094045.D
 Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.6	33.8
229	20.0	16.3	24.5





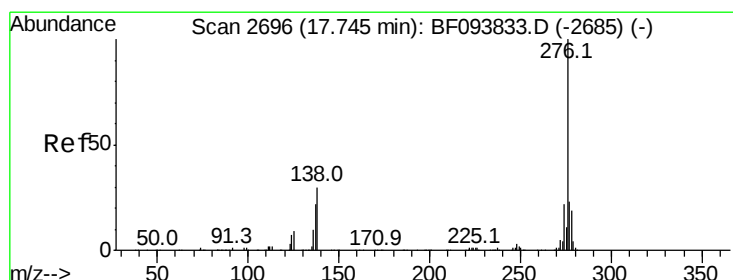
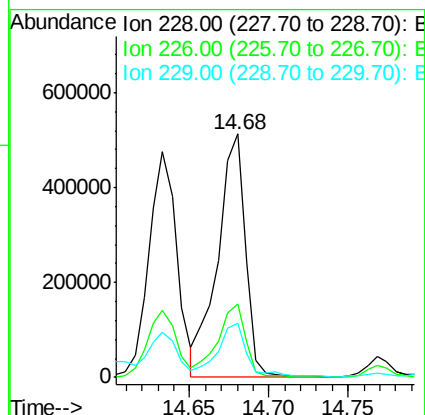
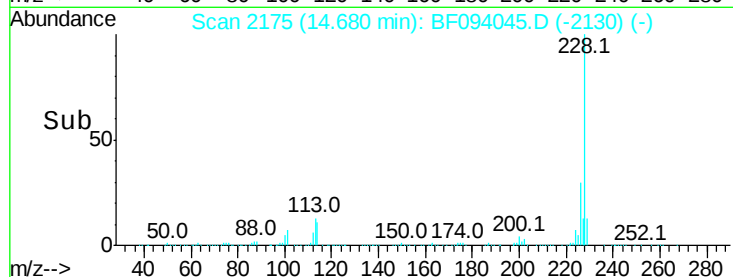
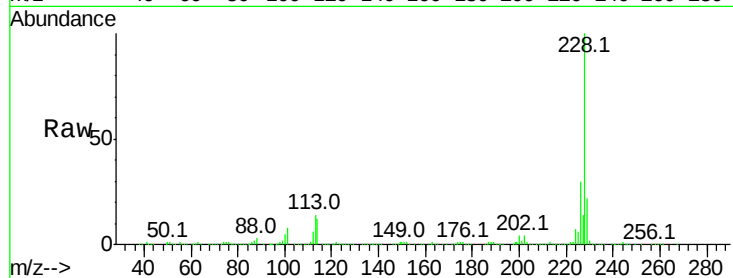
#82
Chrysene
Concen: 34.40 ng
RT: 14.68 min Scan# 2175
Delta R.T. -0.04 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

Tot Ion:228	Resp:	621342
Ion Ratio	Lower	Upper
228 100		
226 30.3	24.9	37.3
229 22.2	15.8	23.6

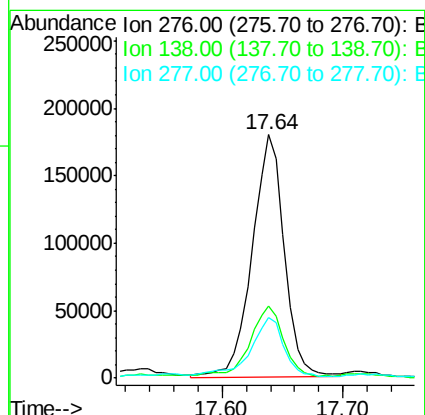
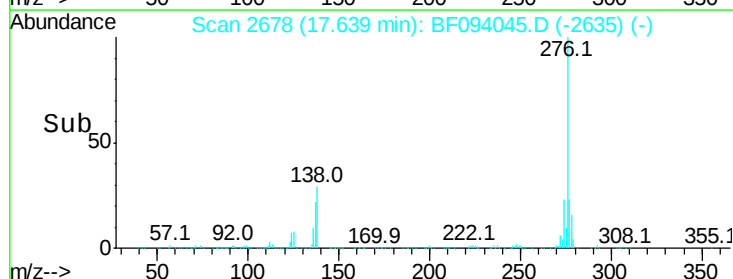
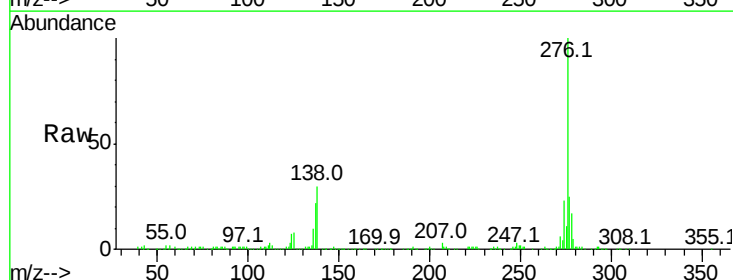
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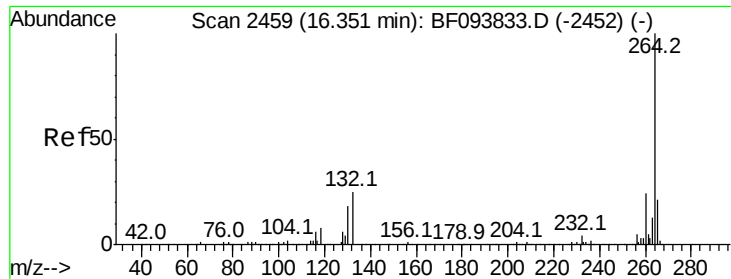
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 21.35 ng
RT: 17.64 min Scan# 2678
Delta R.T. -0.05 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion:276	Resp:	333973
Ion Ratio	Lower	Upper
276 100		
138 31.4	27.8	41.6
277 26.4	20.2	30.4





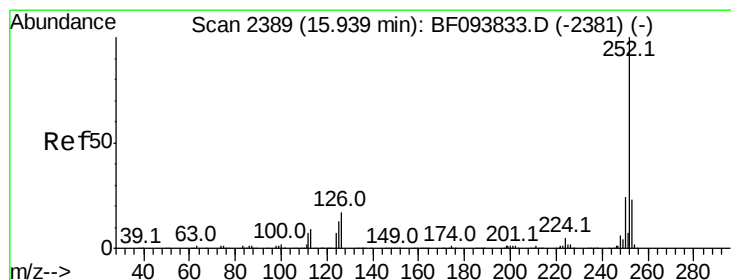
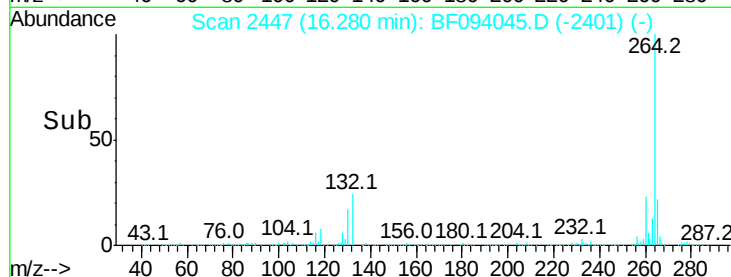
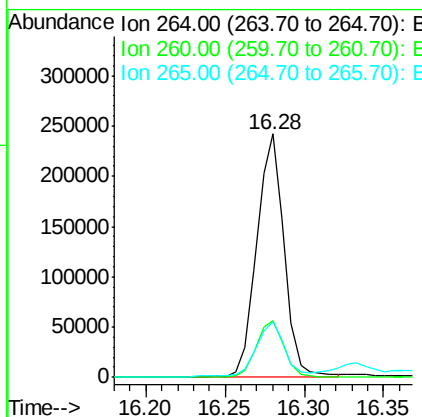
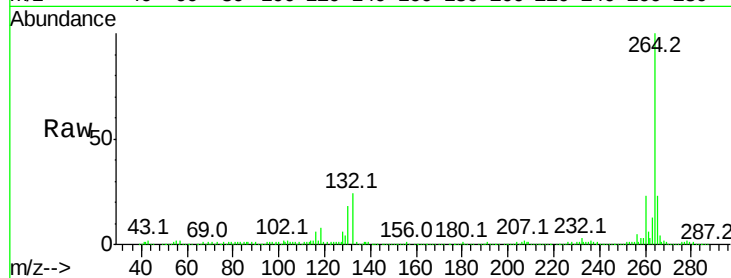
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.28 min Scan# 2447
Delta R.T. -0.03 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.5	29.3
265	22.6	17.2	25.8

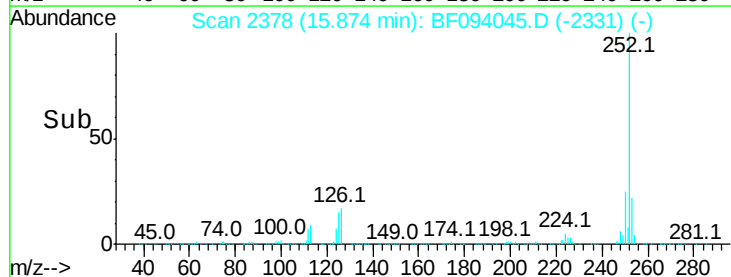
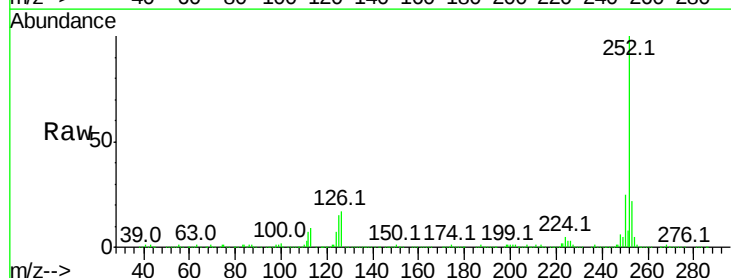
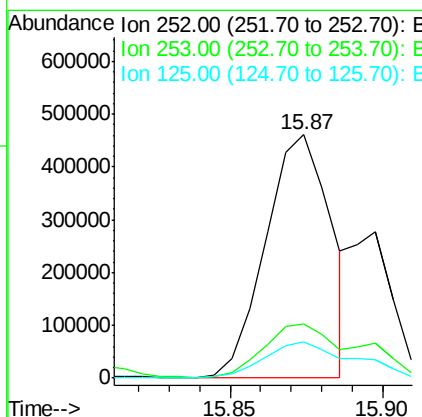
Manual Integrations
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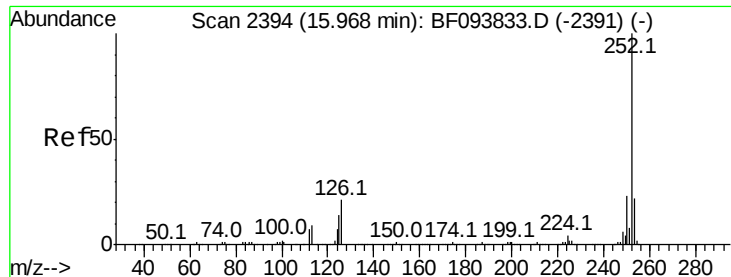
mohammad
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#87
Benzo(b)fluoranthene
Concen: 38.37 ng m
RT: 15.87 min Scan# 2378
Delta R.T. -0.02 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	15.1	9.8	14.8#





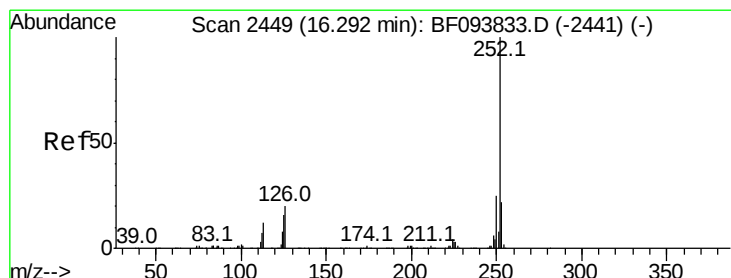
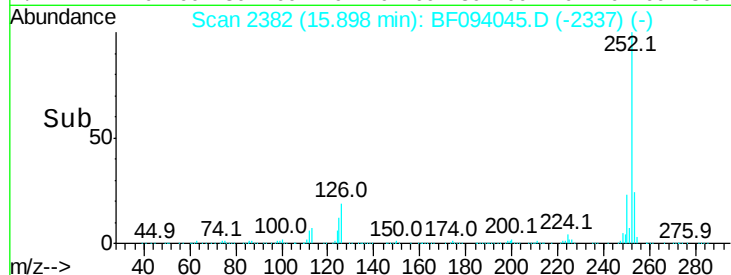
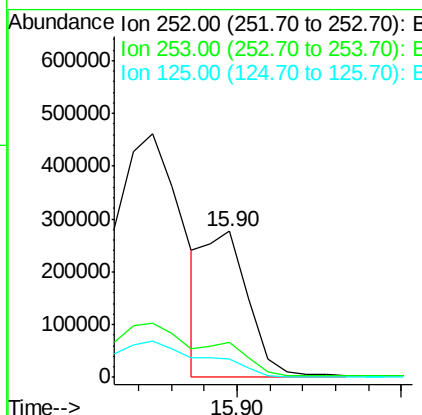
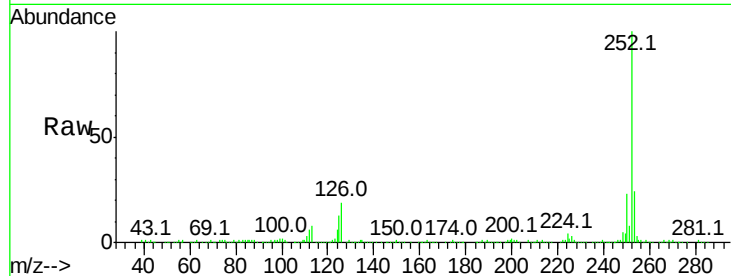
#88
Benzo(k)fluoranthene
Concen: 14.84 ng m
RT: 15.90 min Scan# 2382
Delta R.T. -0.04 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.4	27.6
125	12.5	13.1	19.7

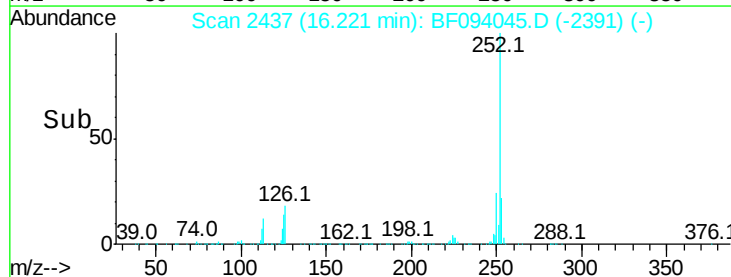
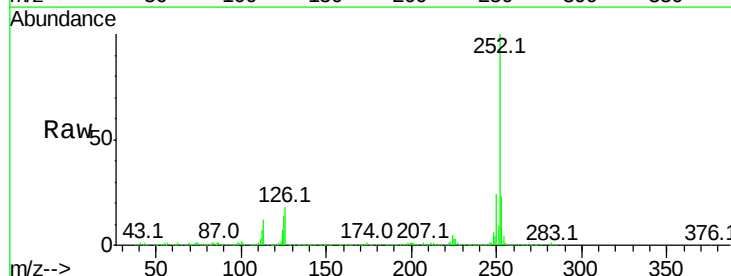
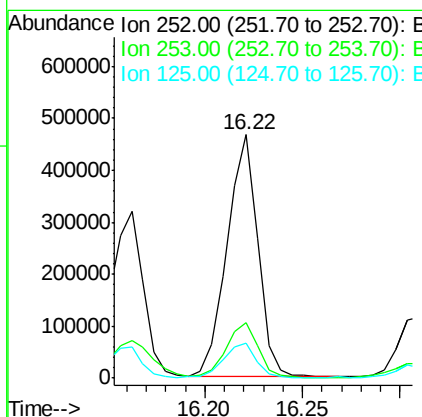
Manual Integrations
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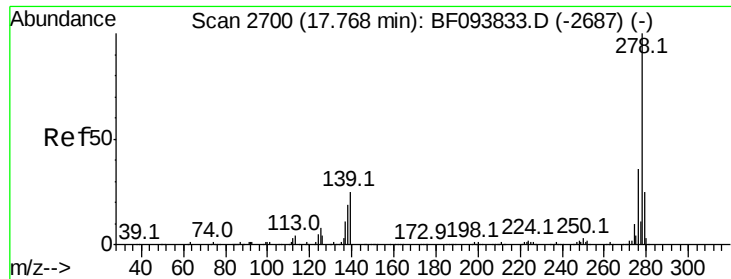
mohammad
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#89
Benzo(a)pyrene
Concen: 30.97 ng
RT: 16.22 min Scan# 2437
Delta R.T. -0.03 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	14.2	11.0	16.4





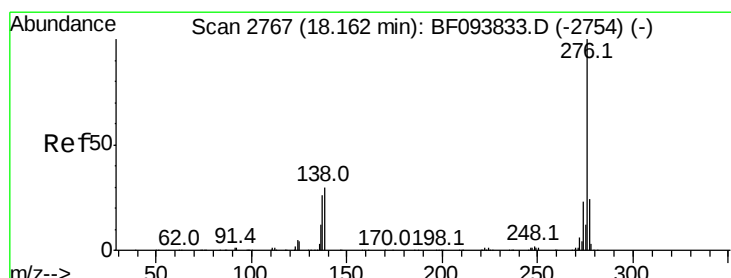
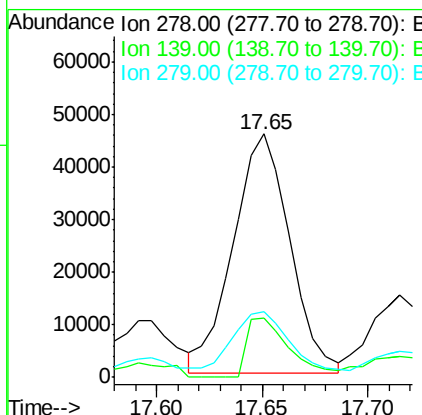
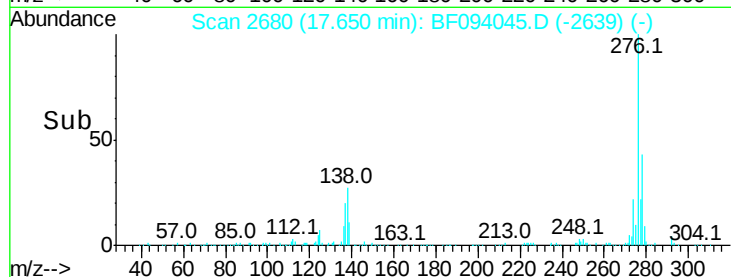
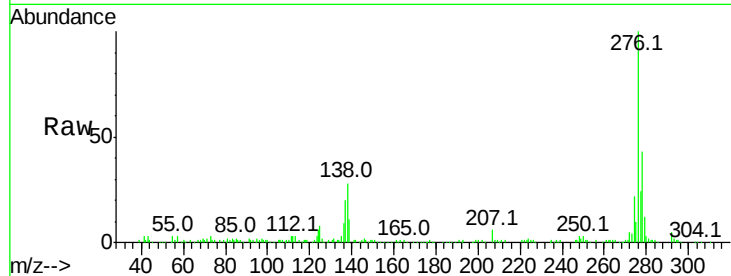
#90
Dibenzo(a,h)anthracene
Concen: 6.06 ng
RT: 17.65 min Scan# 2680
Delta R.T. -0.06 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Instrument :
BNA_F
ClientSampleId :
E2-P12.5-ESW

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.2	16.6	24.8
279	27.1	19.3	28.9

Manual Integrations
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3/30/2017 2:32:17 PM



#91
Benzo(g,h,i)perylene
Concen: 22.65 ng
RT: 18.04 min Scan# 2746
Delta R.T. -0.06 min
Lab File: BF094045.D
Acq: 30 Mar 2017 5:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.6	28.0
138	31.8	25.4	38.0

