

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094159.D
 Acq On : 4 Apr 2017 10:21
 Operator : SJ/MA
 Sample : I2458-03DL 25X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-42-S1(1.0-1.5)DL

Manual Integrations
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Quant Time: Apr 04 11:48:43 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	164880	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	612426	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	234156	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	365350	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	313227	20.00	ng	-0.01
86) Perylene-d12	16.24	264	216012	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	48088	4.93	ng	-0.02
7) Phenol-d6	5.49	99	60881	5.04	ng	-0.02
23) Nitrobenzene-d5	6.53	82	24178	2.25	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	6946	3.75	ng	-0.02
44) 2-Fluorobiphenyl	8.71	172	63177	4.12	ng	-0.02
78) Terphenyl-d14	13.33	244	37285	2.67	ng	-0.02
Target Compounds						
51) Acenaphthene	9.57	154	83558	5.83	ng	99
54) Dibenzofuran	9.79	168	50162	2.57	ng	96
57) Fluorene	10.21	166	91427	5.65	ng	99
70) Phenanthrene	11.39	178	908788	44.72	ng	99
71) Anthracene	11.45	178	259911	12.42	ng	98
72) Carbazole	11.65	167	77620	3.62	ng	96
74) Fluoranthene	12.86	202	1202169	57.77	ng	99
77) Pyrene	13.13	202	1024269	45.06	ng	99
80) Benzo(a)anthracene	14.60	228	438498	24.01	ng	100
82) Chrysene	14.64	228	410884	24.24	ng	97
85) Indeno(1,2,3-cd)pyrene	17.59	276	141455	9.64	ng	93
87) Benzo(b)fluoranthene	15.84	252	395761m	29.89	ng	
88) Benzo(k)fluoranthene	15.86	252	128476m	9.92	ng	
89) Benzo(a)pyrene	16.19	252	260000	21.32	ng	98
90) Dibenzo(a,h)anthracene	17.60	278	34522	3.34	ng	95
91) Benzo(g,h,i)perylene	17.99	276	131861	12.67	ng	99

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

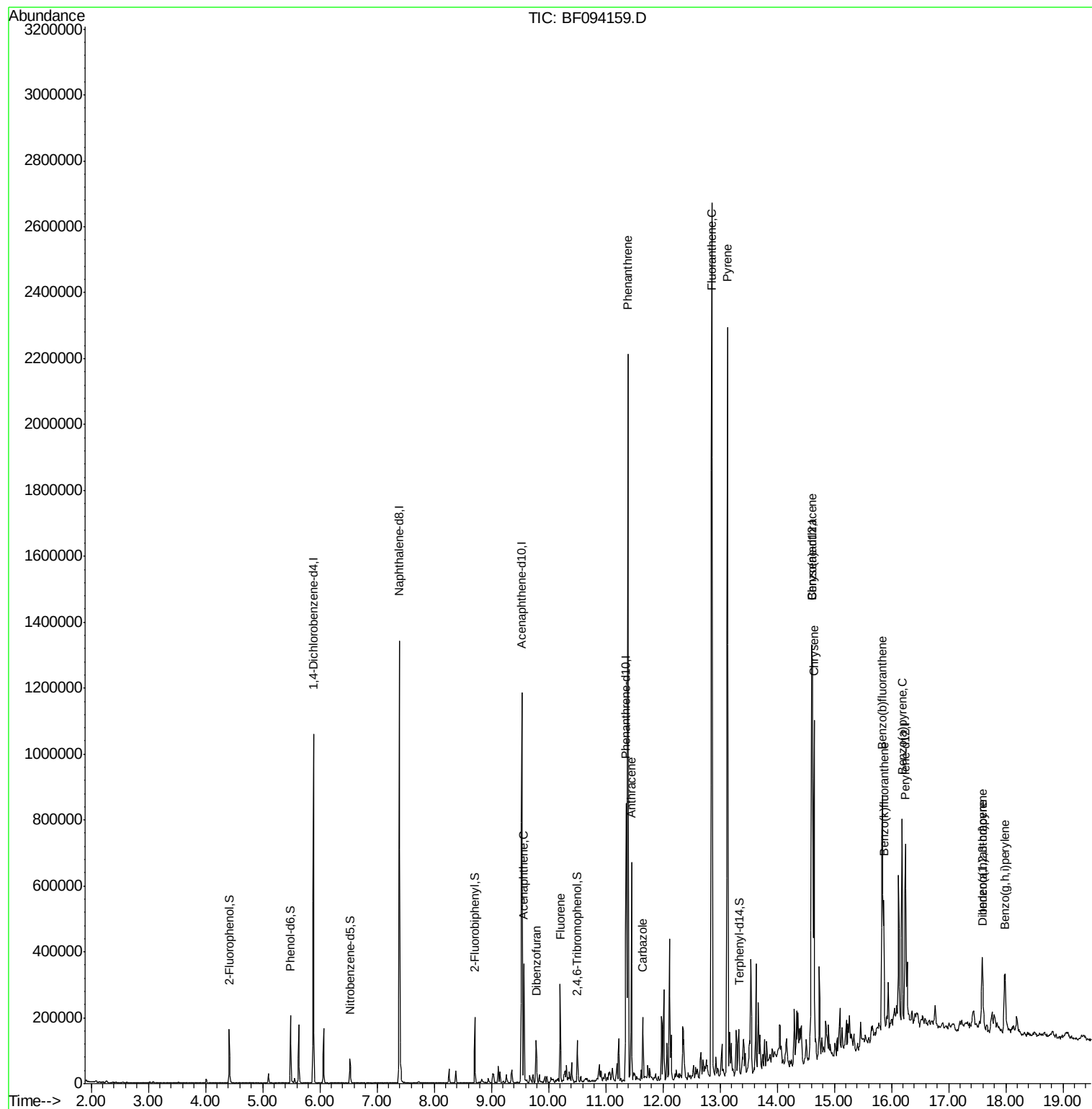
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
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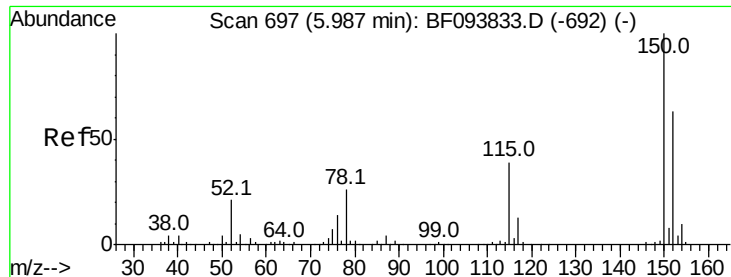
Instrument :
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#1

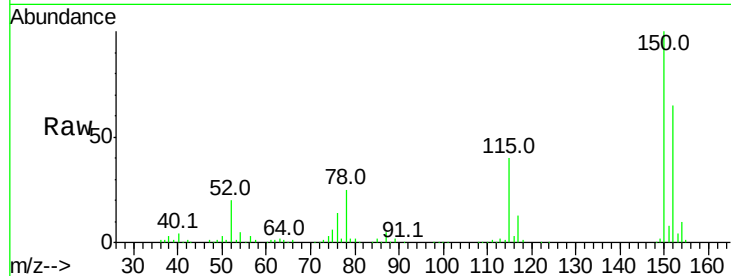
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094159.D
Acq: 4 Apr 2017 10:21

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)DL

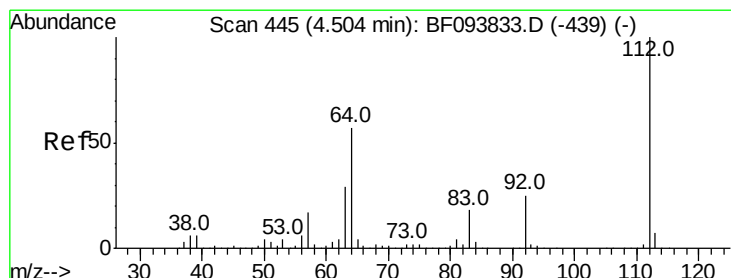
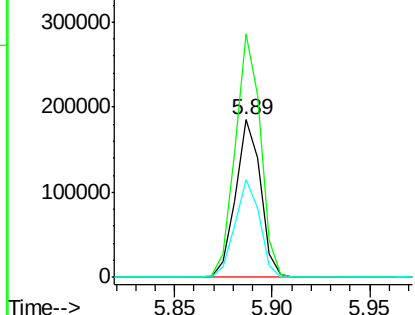
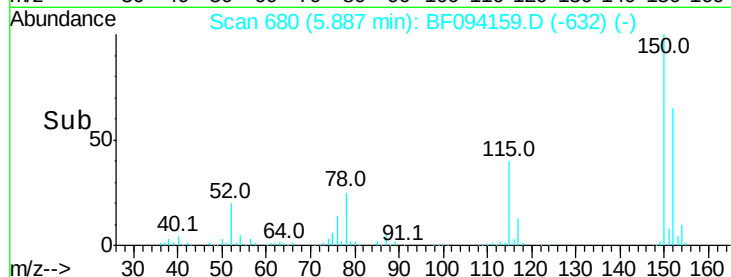
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	126.2	189.2
115	62.3	52.2	78.2

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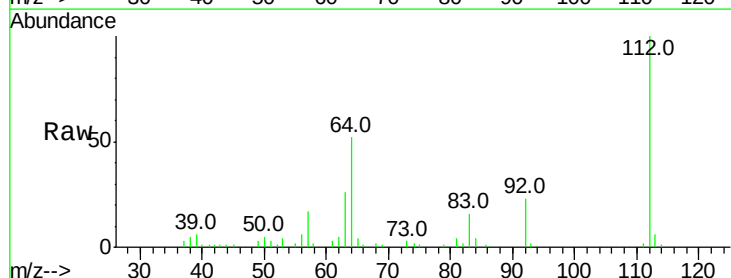
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



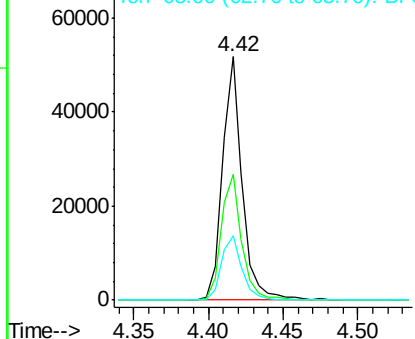
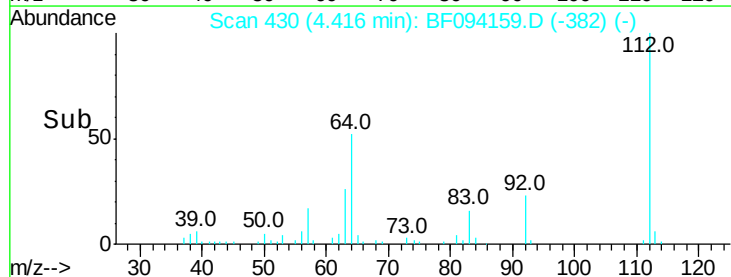
#5

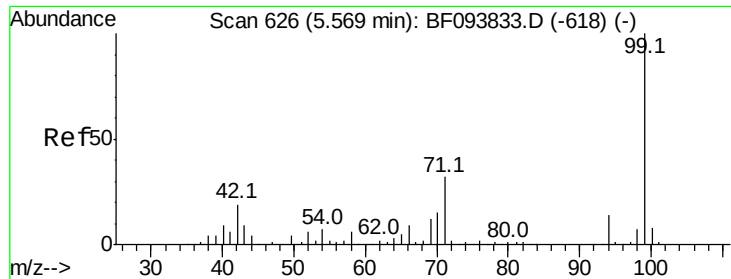
2-Fluorophenol
Concen: 4.93 ng
RT: 4.42 min Scan# 430
Delta R.T. -0.02 min
Lab File: BF094159.D
Acq: 4 Apr 2017 10:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.9	46.0	69.0
63	26.2	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: 5.04 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Instrument :

BNA_F

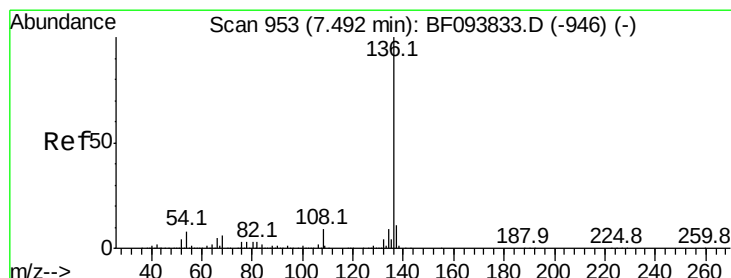
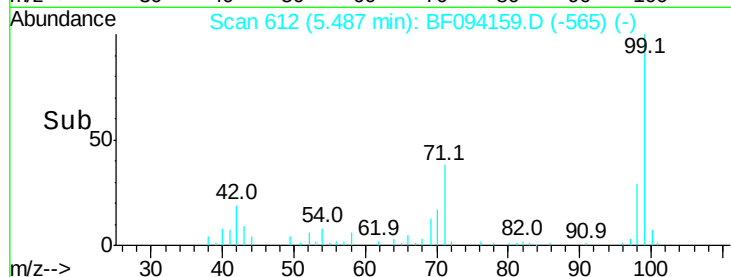
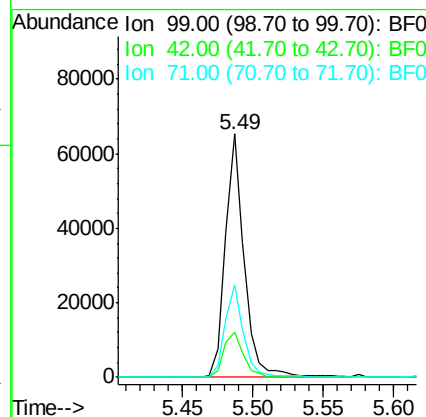
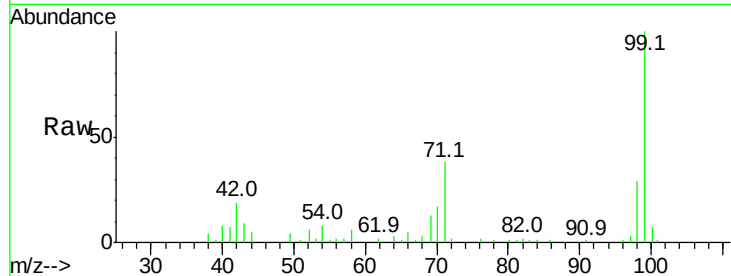
ClientSampleId :

B-42-S1(1.0-1.5)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		60881		
42	18.8	13.5	20.3		
71	38.1	24.5	36.7#		

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#21

Naphthalene-d8

Concen: 20.00 ng

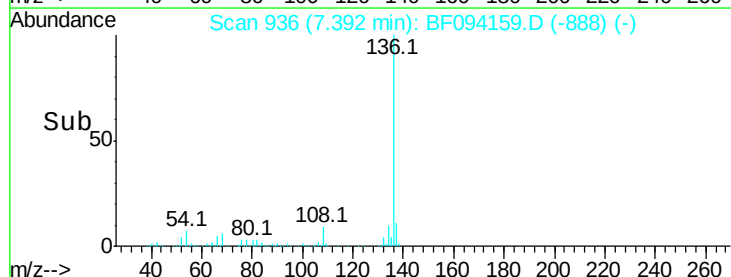
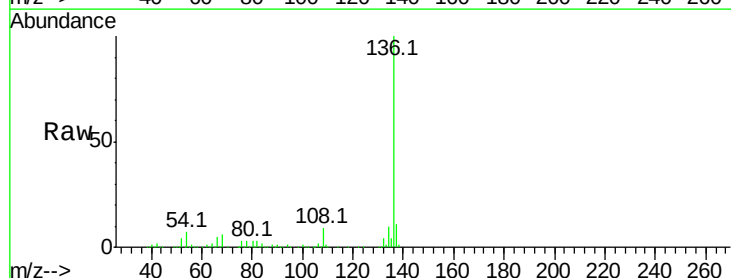
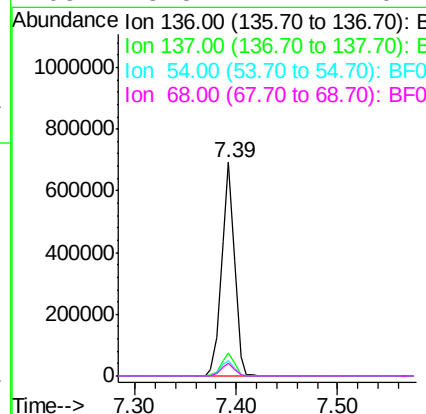
RT: 7.39 min Scan# 936

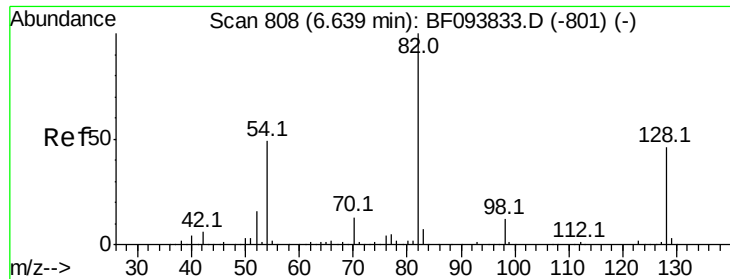
Delta R.T. -0.02 min

Lab File: BF094159.D

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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		612426		
137	11.0	8.5	12.7		
54	7.3	4.9	7.3		
68	5.8	4.1	6.1		





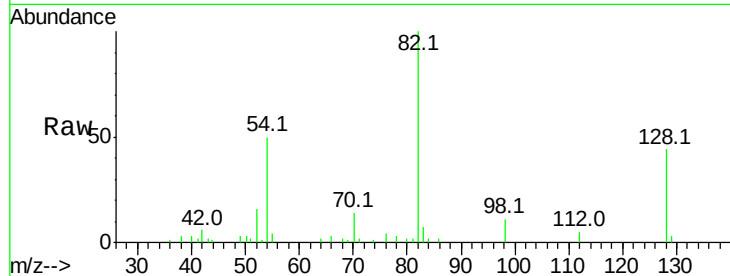
#23
 Nitrobenzene-d5
 Concen: 2.25 ng
 RT: 6.53 min Scan# 789
 Delta R.T. -0.03 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

Instrument :
 BNA_F
 ClientSampleId :
 B-42-S1(1.0-1.5)DL

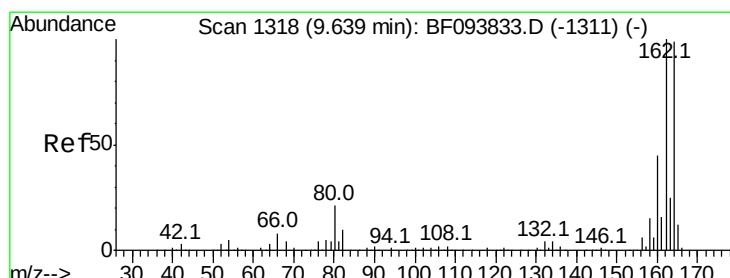
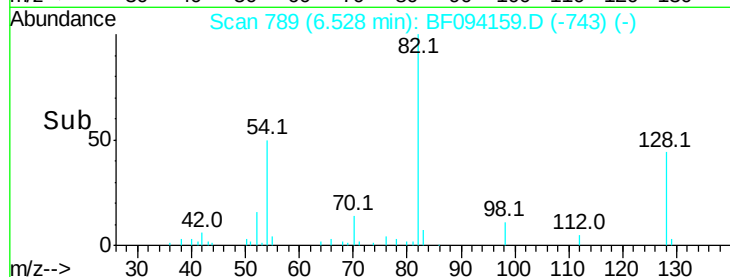
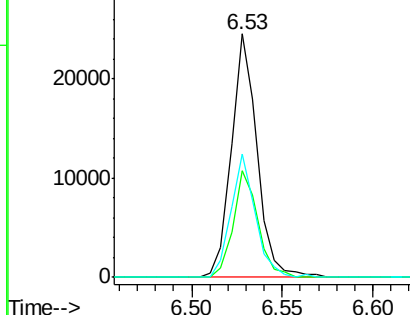
Tot Ion	Ratio	Lower	Upper
82	100		
128	43.7	34.0	51.0
54	50.4	42.2	63.2

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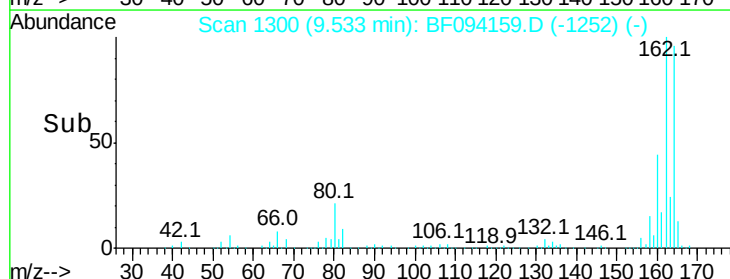
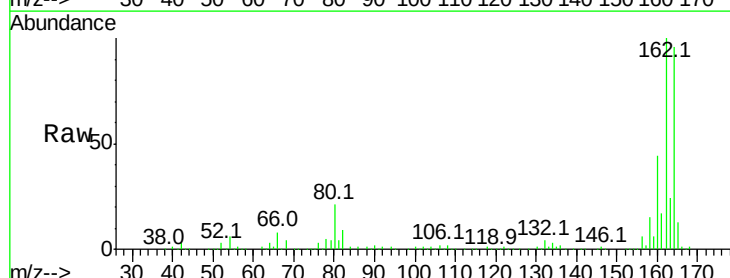
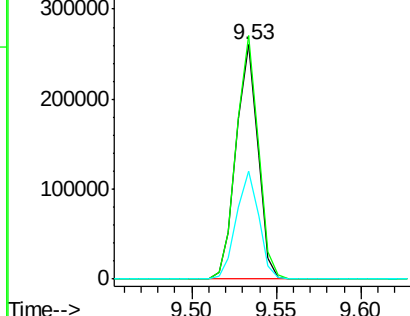
Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

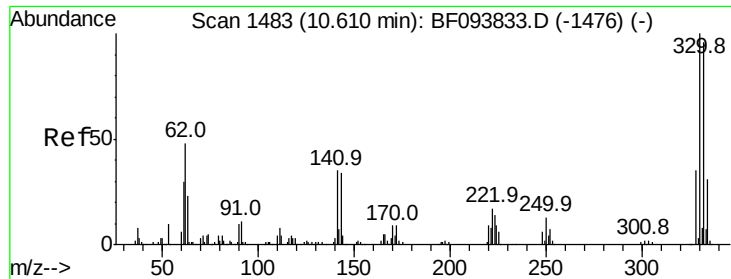


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.6	123.8
160	46.1	36.2	54.2

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





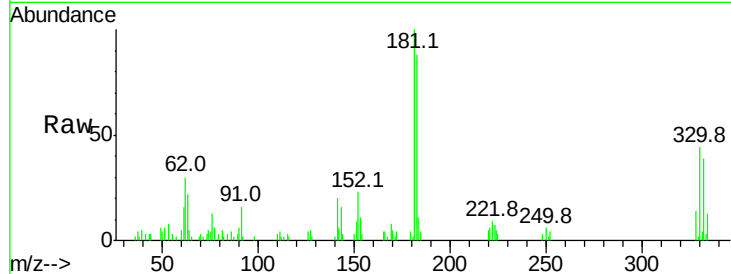
#41
 2,4,6-Tribromophenol
 Concen: 3.75 ng
 RT: 10.50 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

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 B-42-S1(1.0-1.5)DL

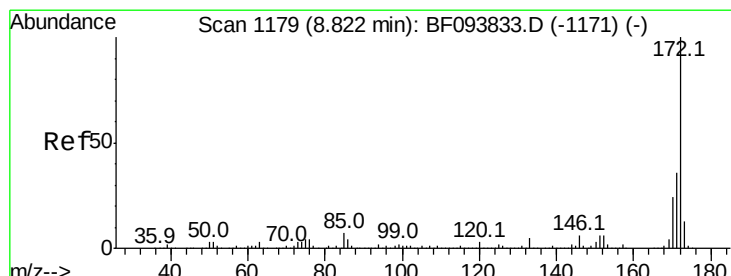
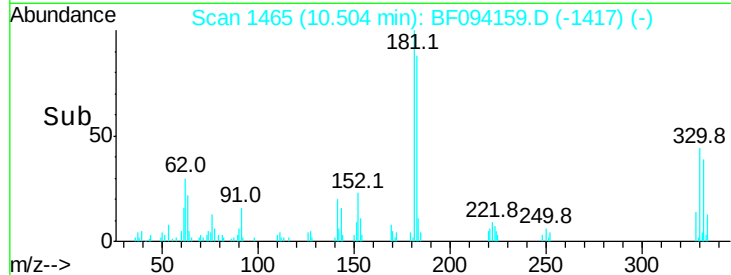
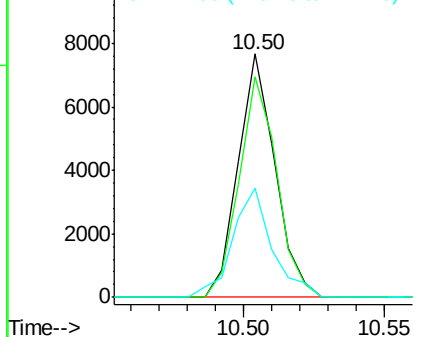
Tot Ion	Ratio	Lower	Upper
330	100		
332	92.6	76.6	115.0
141	48.2	31.4	47.2#

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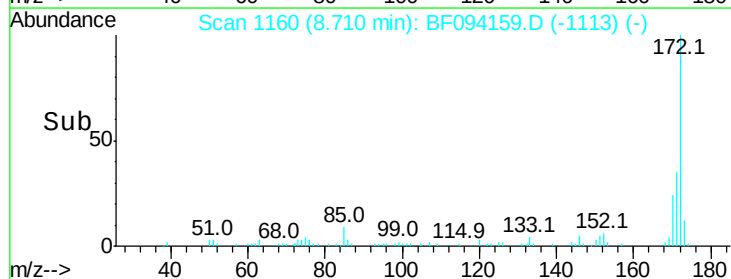
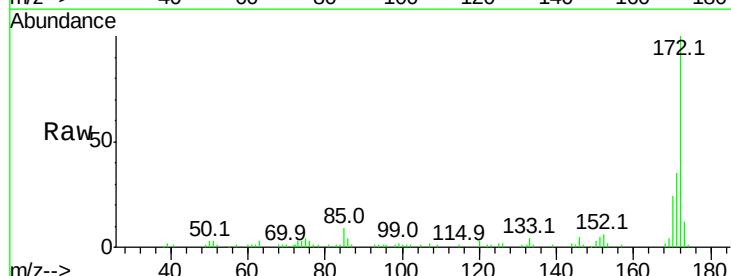
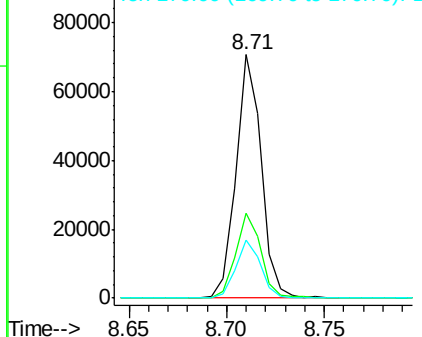
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

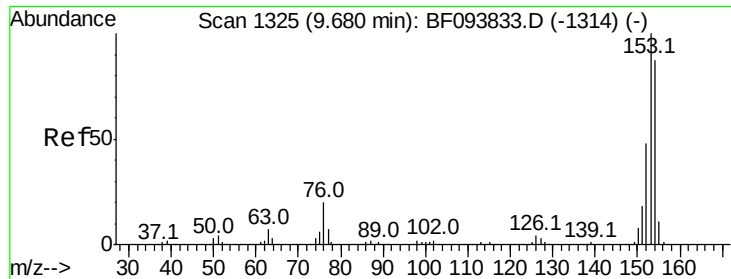


#44
 2-Fluorobiphenyl
 Concen: 4.12 ng
 RT: 8.71 min Scan# 1160
 Delta R.T. -0.02 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.6	44.4
170	23.8	19.8	29.8

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 5.83 ng

RT: 9.57 min Scan# 1306

Delta R.T. -0.02 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Instrument :

BNA_F

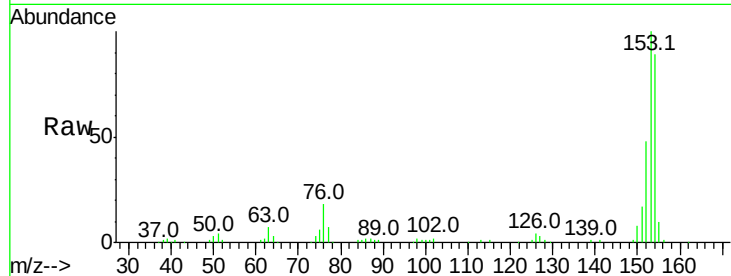
ClientSampleId :

B-42-S1(1.0-1.5)DL

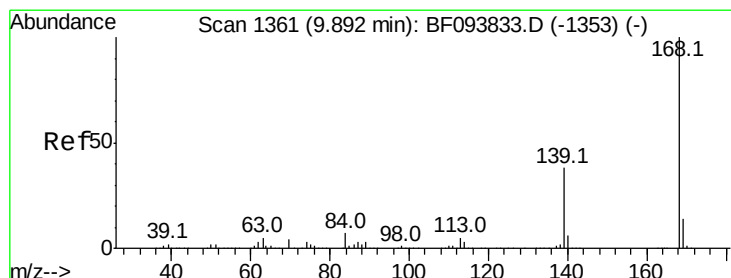
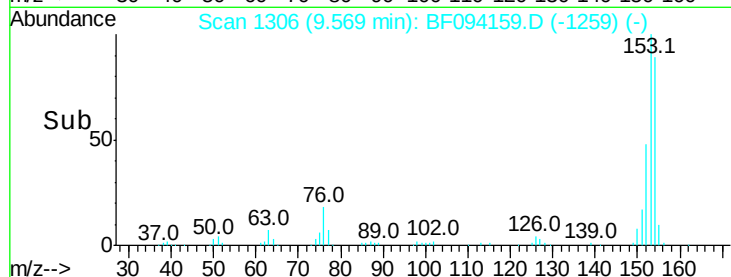
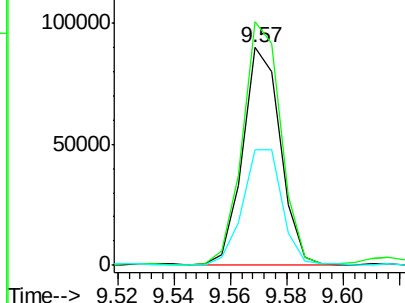
Tot Ion:	154	Resp:	83558
Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.5	135.7
152	53.2	43.6	65.4

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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: 2.57 ng

RT: 9.79 min Scan# 1343

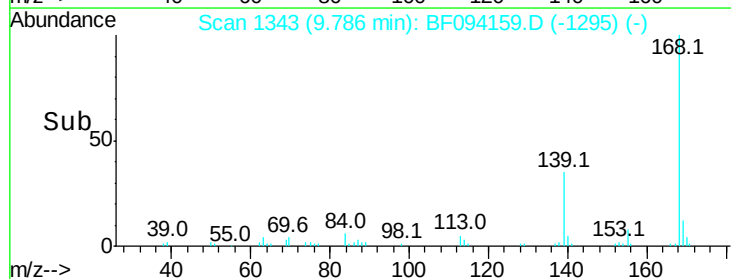
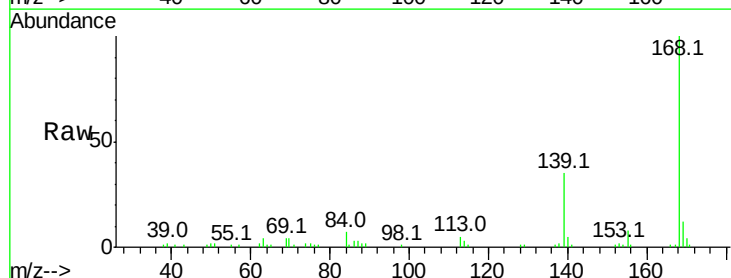
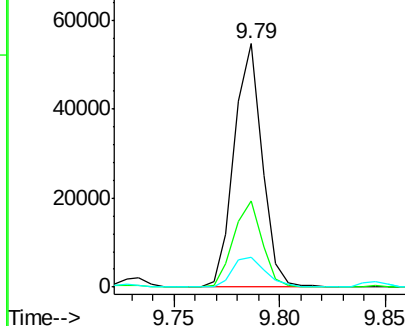
Delta R.T. -0.02 min

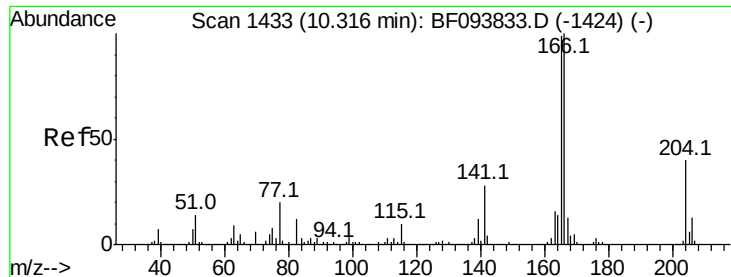
Lab File: BF094159.D

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Tgt Ion:	168	Resp:	50162
Ion	Ratio	Lower	Upper
168	100		
139	35.3	30.6	45.8
169	12.4	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





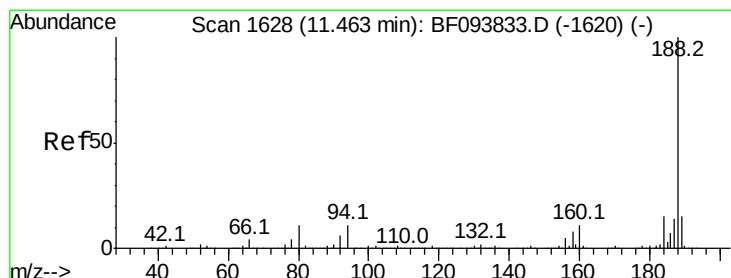
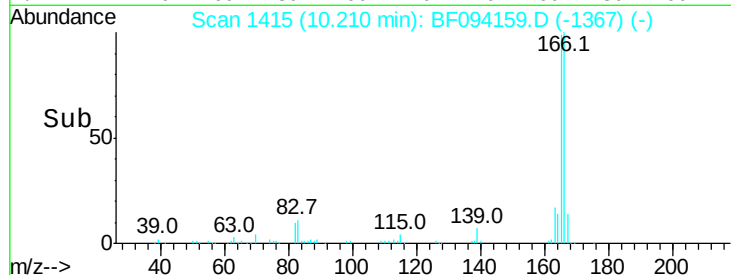
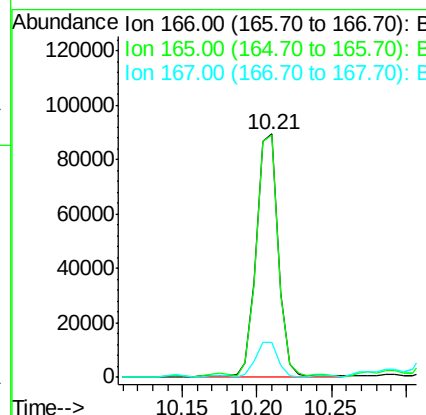
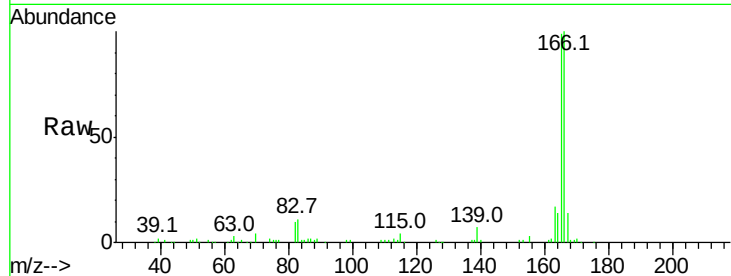
#57
Fluorene
 Concen: 5.65 ng
 RT: 10.21 min Scan# 1415
 Delta R.T. -0.02 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

Instrument :
 BNA_F
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 B-42-S1(1.0-1.5)DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.3	78.8	118.2
167	14.4	10.6	16.0

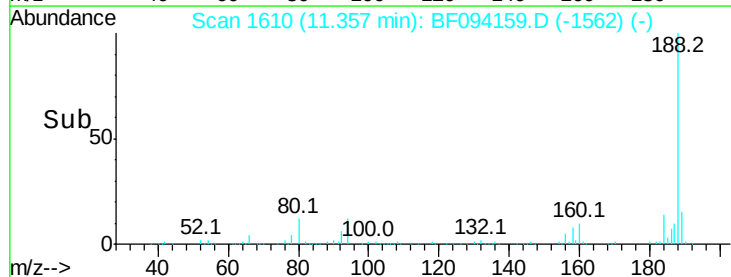
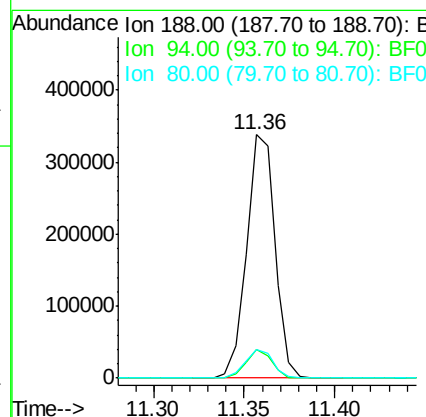
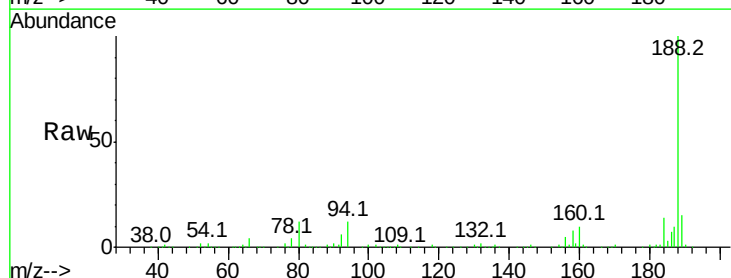
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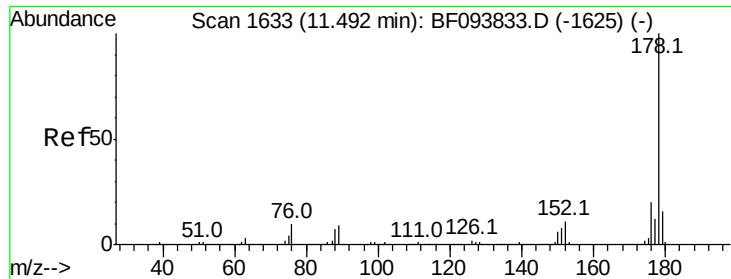
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1610
 Delta R.T. -0.02 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

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





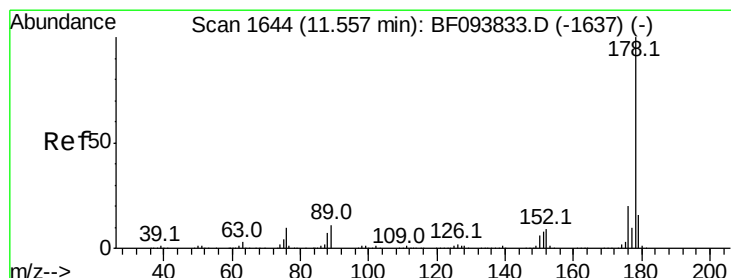
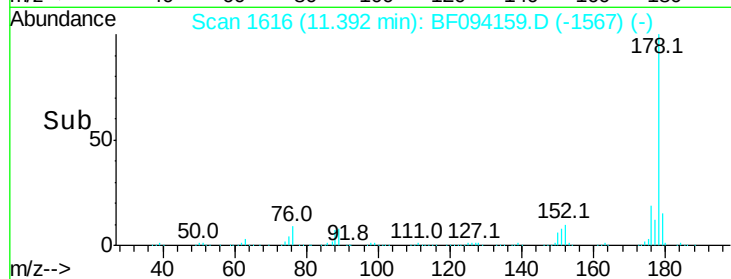
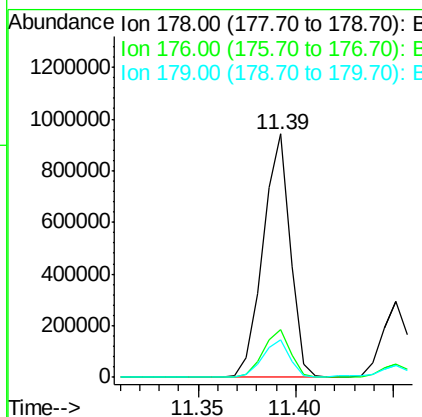
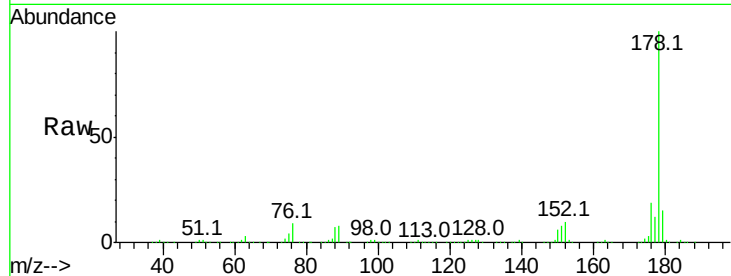
#70
Phenanthrene
Concen: 44.72 ng
RT: 11.39 min Scan# 1616
Delta R.T. -0.01 min
Lab File: BF094159.D
Acq: 4 Apr 2017 10:21

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.2	24.4
179	15.4	12.6	19.0

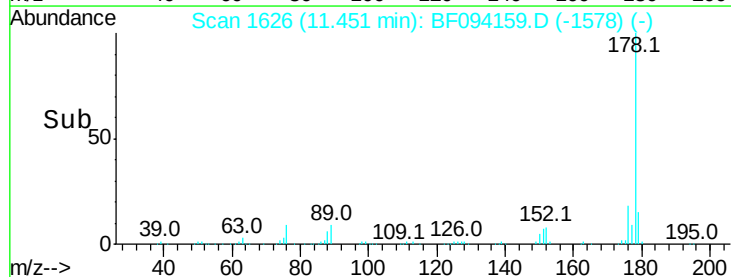
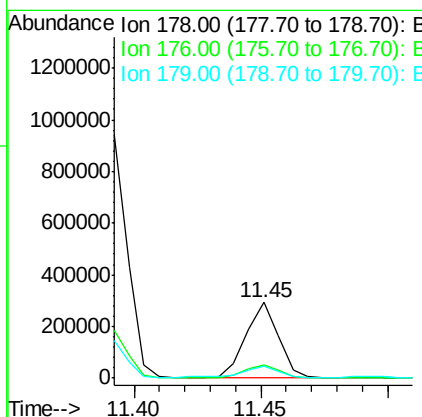
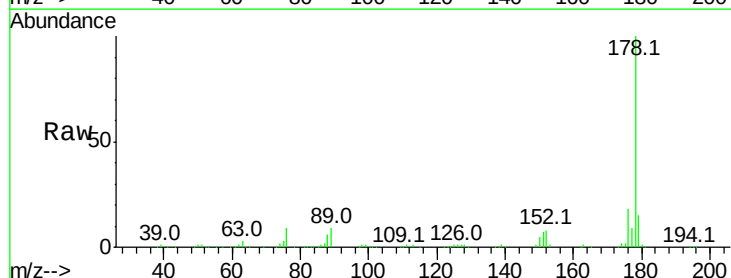
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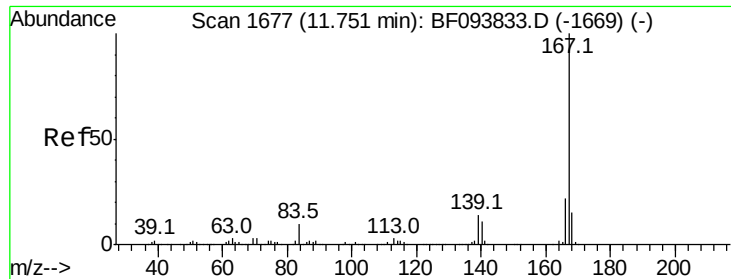
mohammad
4/4/2017 5:35:28 PM



#71
Anthracene
Concen: 12.42 ng
RT: 11.45 min Scan# 1626
Delta R.T. -0.02 min
Lab File: BF094159.D
Acq: 4 Apr 2017 10:21

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	15.4	12.7	19.1





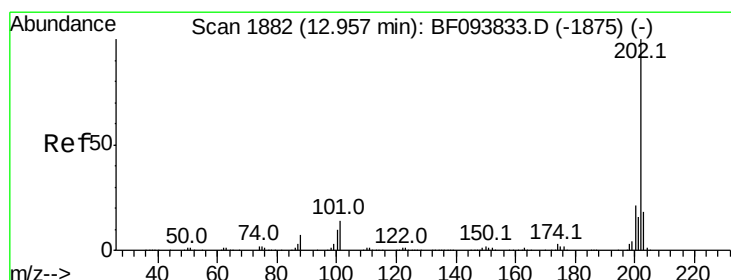
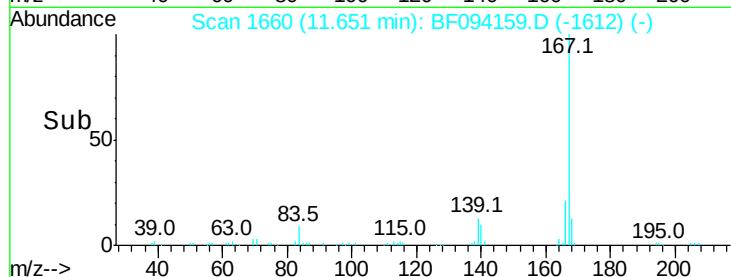
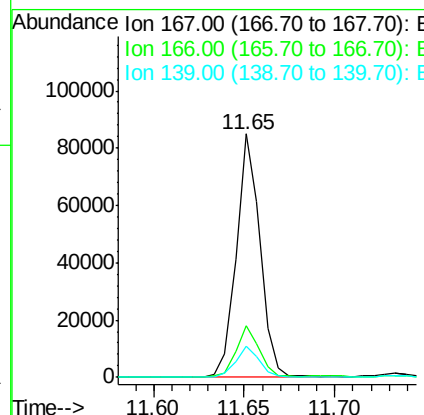
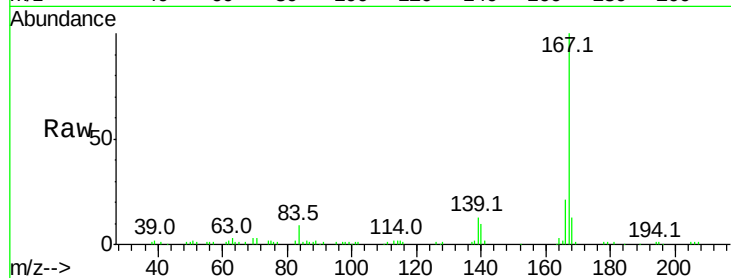
#72
 Carbazole
 Concen: 3.62 ng
 RT: 11.65 min Scan# 1660
 Delta R.T. -0.02 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

Instrument :
 BNA_F
 ClientSampleId :
 B-42-S1(1.0-1.5)DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.1	18.1	27.1
139	12.8	11.7	17.5

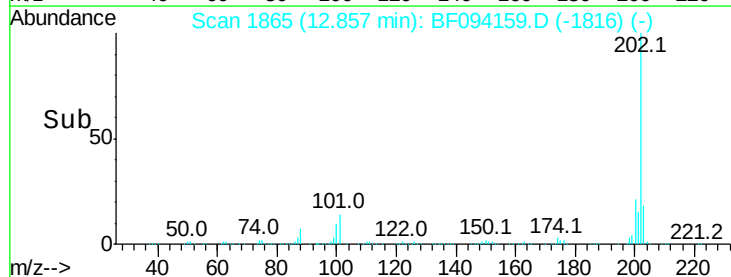
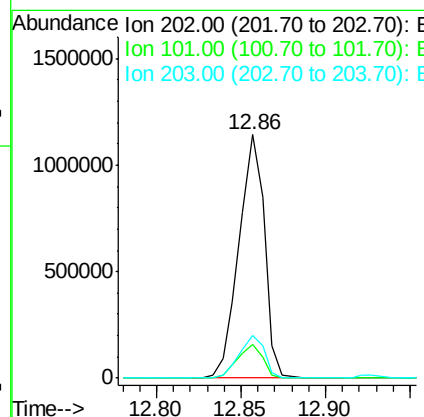
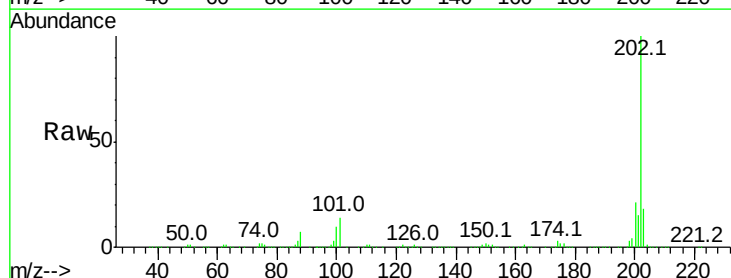
Manual Integrations
 APPROVED

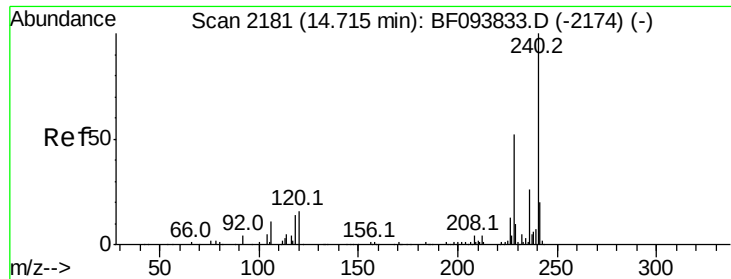
mohammad
 4/4/2017 5:35:28 PM



#74
 Fluoranthene
 Concen: 57.77 ng
 RT: 12.86 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	33.2
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Instrument :

BNA_F

ClientSampleId :

B-42-S1(1.0-1.5)DL

Tot Ion:240 Resp: 313227

Ion Ratio Lower Upper

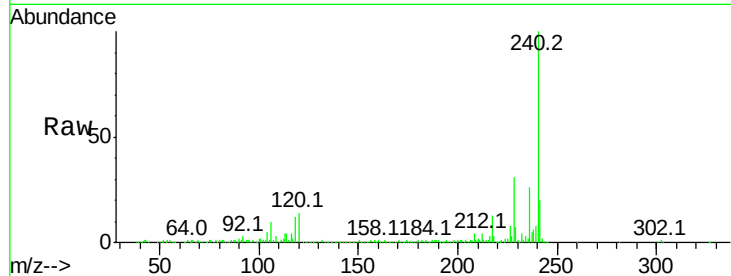
240 100

120 14.3 5.8 8.8#

236 26.2 20.5 30.7

Manual Integrations
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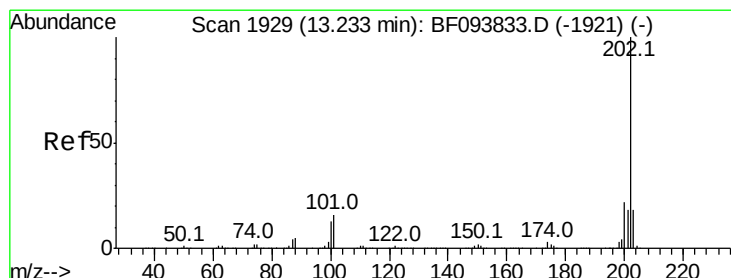
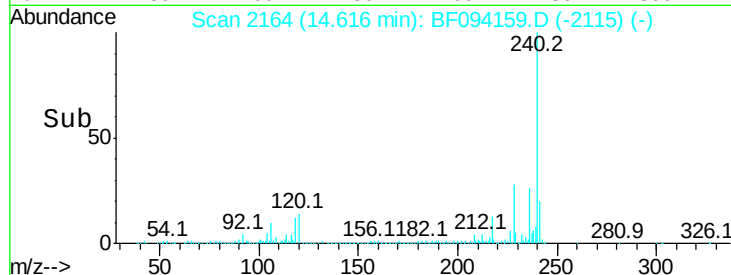
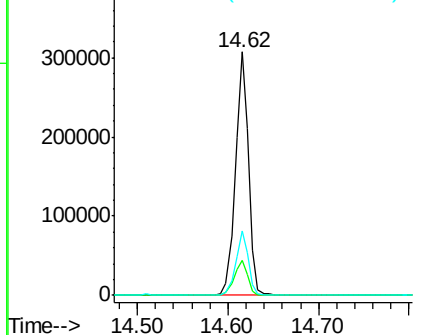
mohammad
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 45.06 ng

RT: 13.13 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

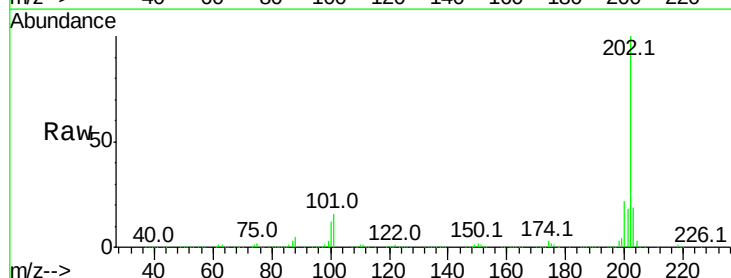
Tgt Ion:202 Resp: 1024269

Ion Ratio Lower Upper

202 100

200 22.1 17.6 26.4

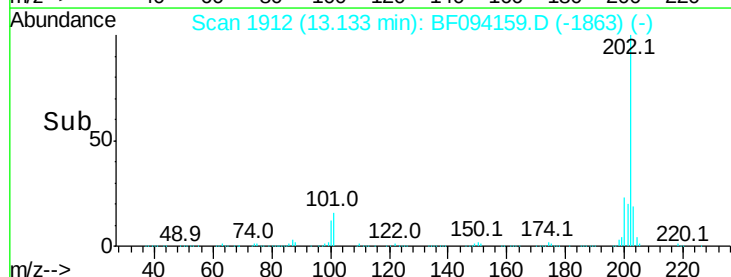
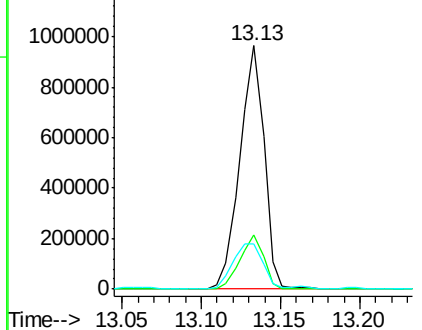
203 18.8 14.4 21.6

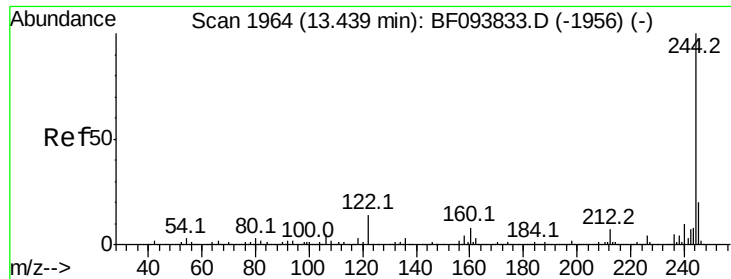


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





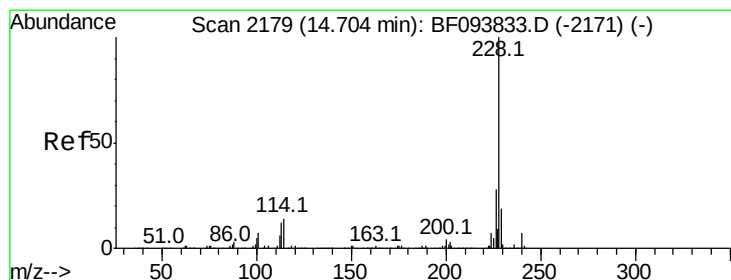
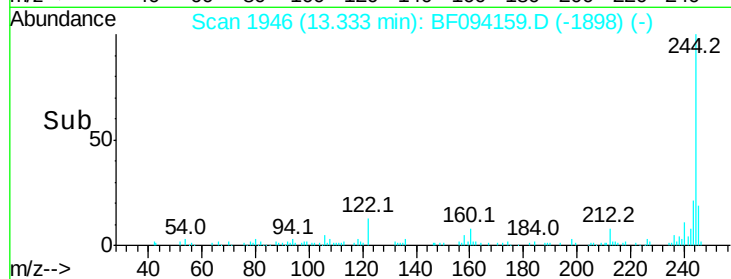
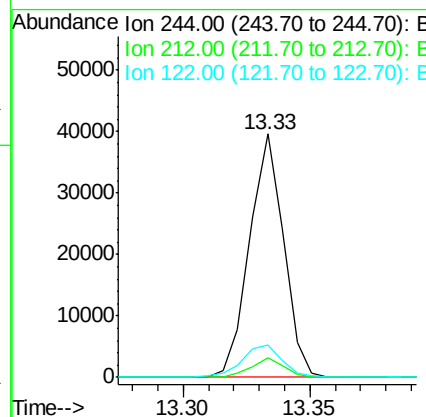
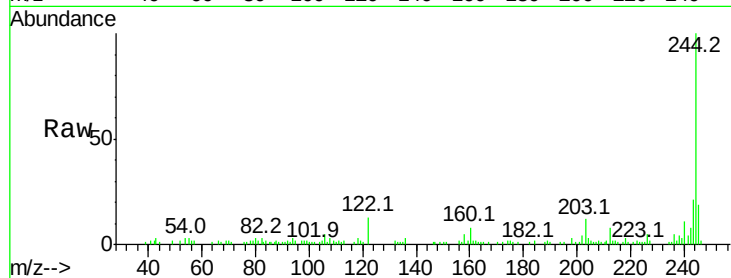
#78
 Terphenyl-d14
 Concen: 2.67 ng
 RT: 13.33 min Scan# 1946
 Delta R.T. -0.02 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

Instrument :
 BNA_F
 ClientSampleID :
 B-42-S1(1.0-1.5)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.2	6.0	9.0
122	13.5	10.3	15.5

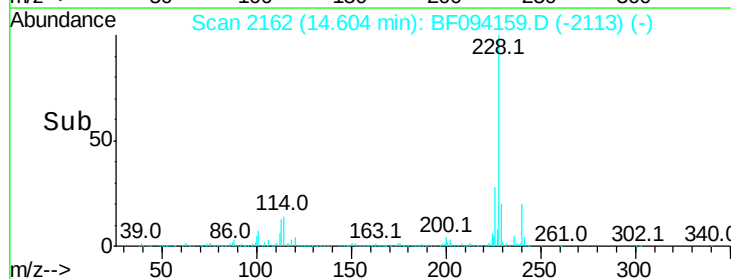
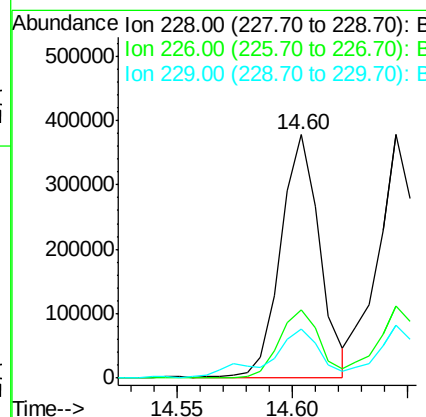
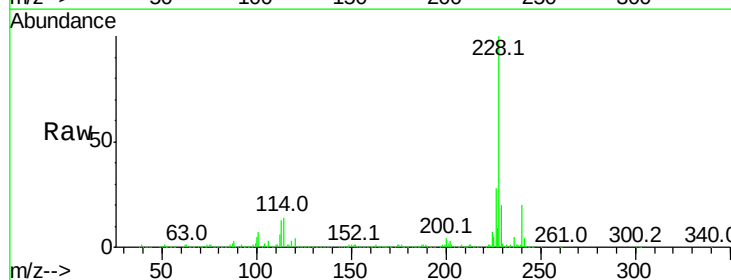
Manual Integrations
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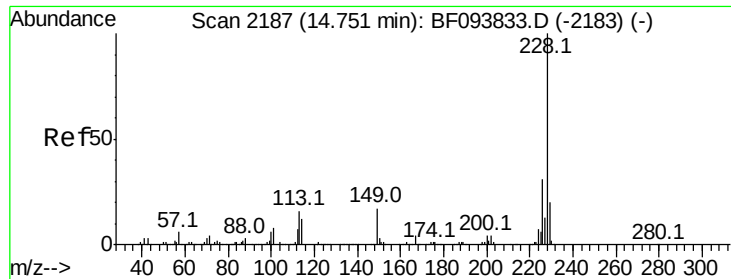
mohammad
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#80
 Benzo(a)anthracene
 Concen: 24.01 ng
 RT: 14.60 min Scan# 2162
 Delta R.T. -0.01 min
 Lab File: BF094159.D
 Acq: 4 Apr 2017 10:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	20.3	16.3	24.5





#82

Chrysene

Concen: 24.24 ng

RT: 14.64 min Scan# 2169

Delta R.T. -0.02 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Instrument :

BNA_F

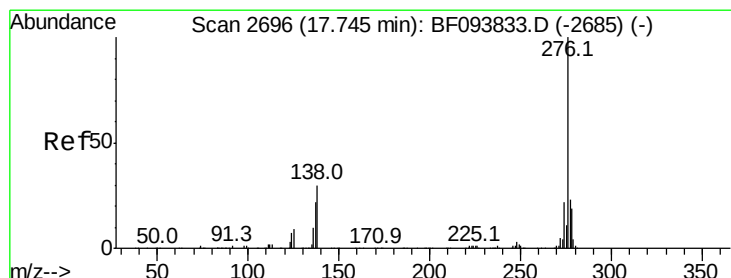
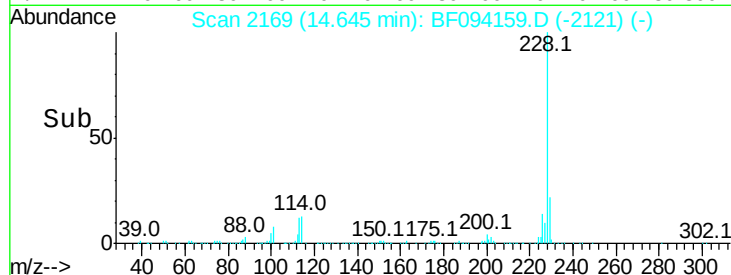
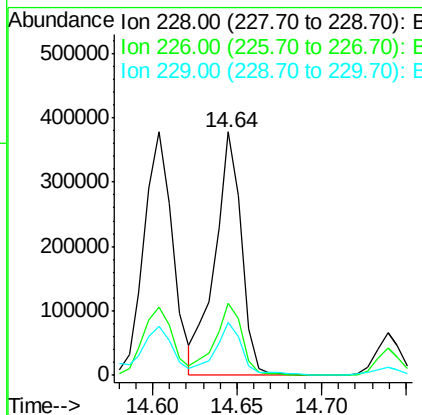
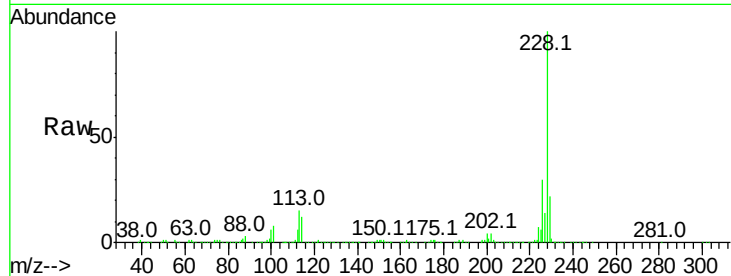
ClientSampleId :

B-42-S1(1.0-1.5)DL

Tot Ion:	228	Resp:	410884
Ion Ratio	Lower	Upper	
228	100		
226	29.6	24.9	37.3
229	21.7	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 9.64 ng

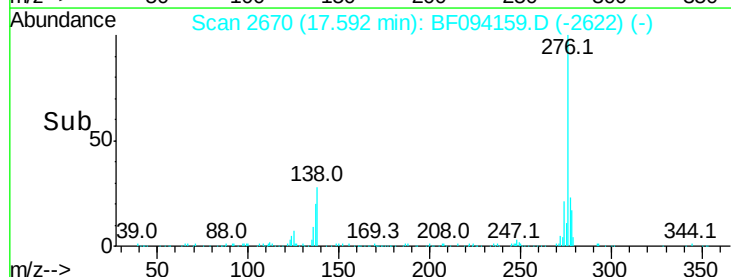
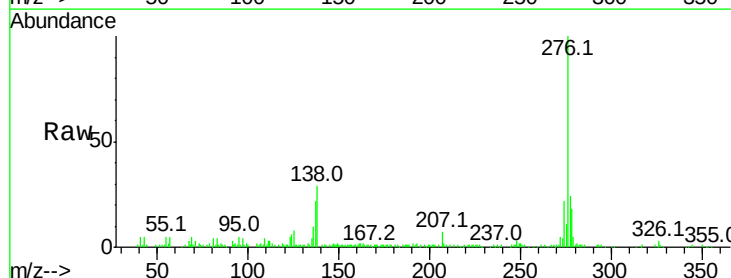
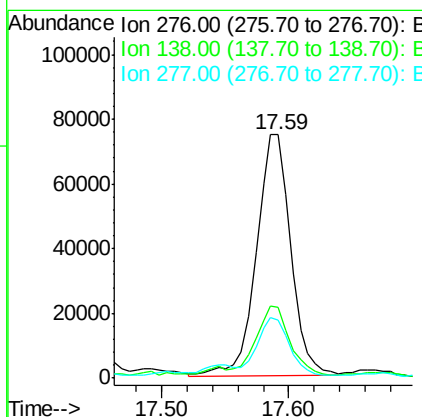
RT: 17.59 min Scan# 2670

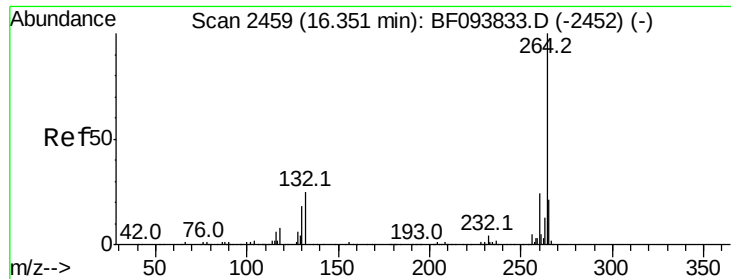
Delta R.T. -0.02 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Tgt Ion:	276	Resp:	141455
Ion Ratio	Lower	Upper	
276	100		
138	29.6	27.8	41.6
277	23.1	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.24 min Scan# 2441

Delta R.T. -0.01 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Instrument :

BNA_F

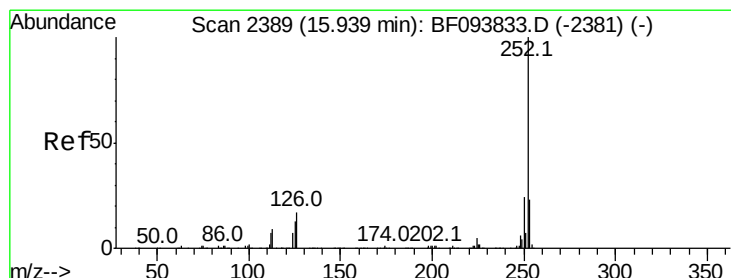
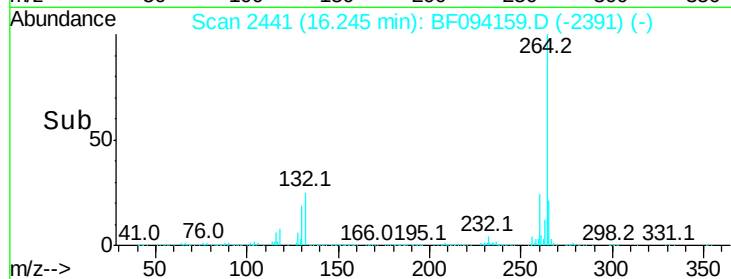
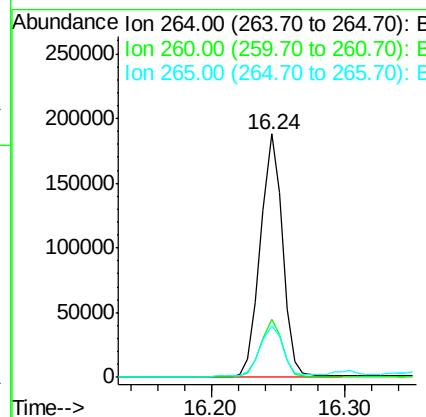
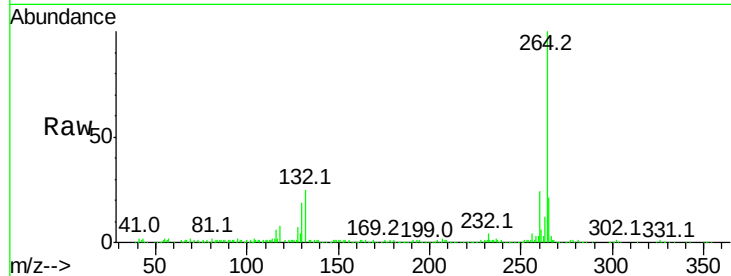
ClientSampleId :

B-42-S1(1.0-1.5)DL

Tot Ion:	264	Resp:	216012
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.5	29.3
265	21.4	17.2	25.8

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#87

Benzo(b)fluoranthene

Concen: 29.89 ng m

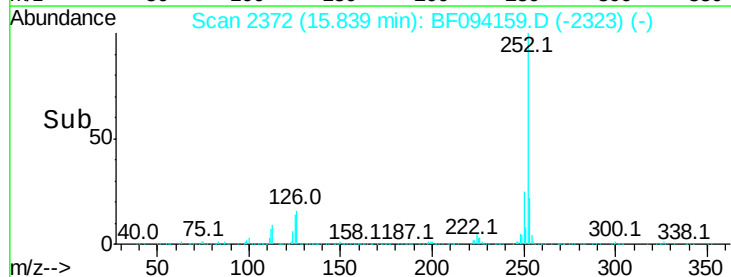
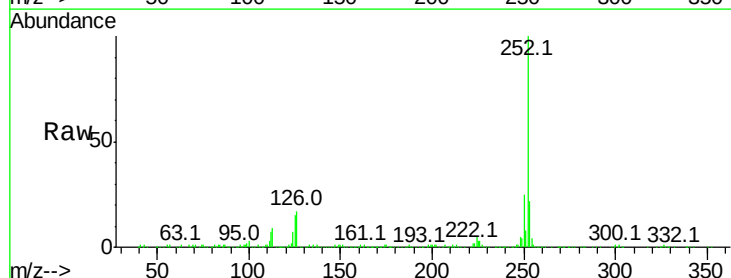
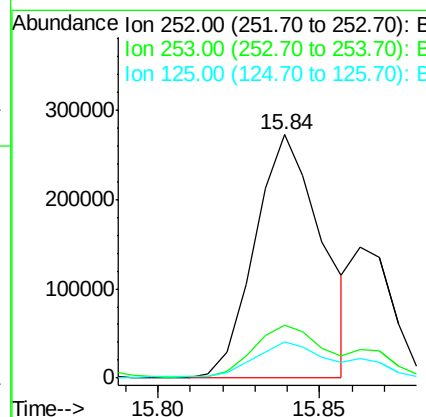
RT: 15.84 min Scan# 2372

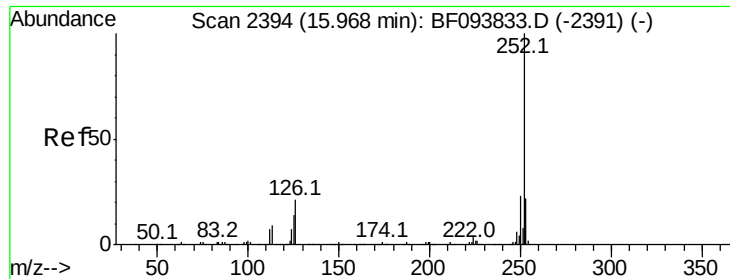
Delta R.T. -0.01 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Tgt Ion:	252	Resp:	395761
Ion Ratio	Lower	Upper	
252	100		
253	21.7	18.1	27.1
125	14.7	9.8	14.8





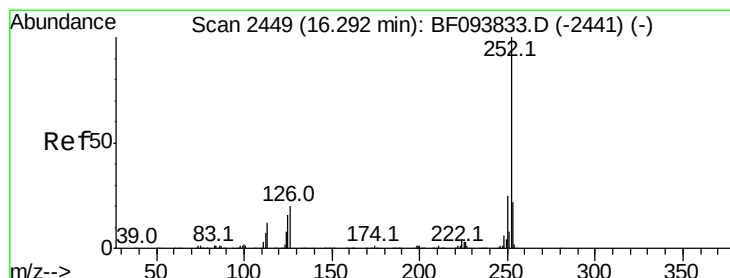
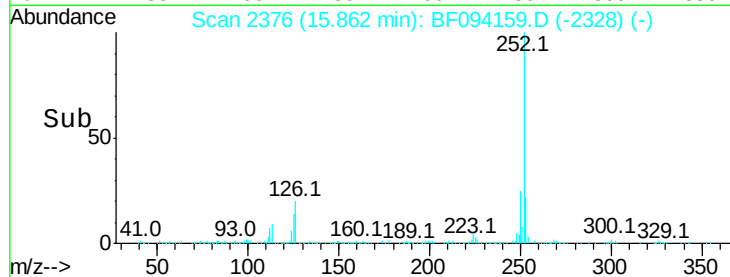
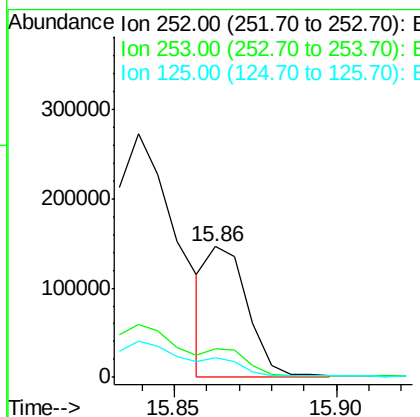
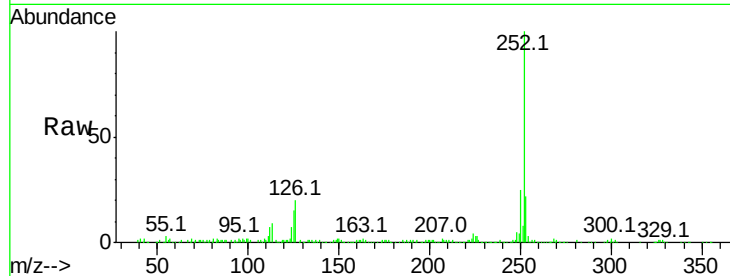
#88
Benzo(k)fluoranthene
Concen: 9.92 ng m
RT: 15.86 min Scan# 2376
Delta R.T. -0.02 min
Lab File: BF094159.D
Acq: 4 Apr 2017 10:21

Instrument :
BNA_F
ClientSampleId :
B-42-S1(1.0-1.5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.4	27.6
125	14.6	13.1	19.7

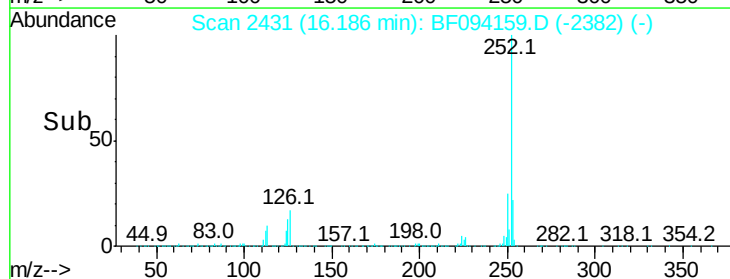
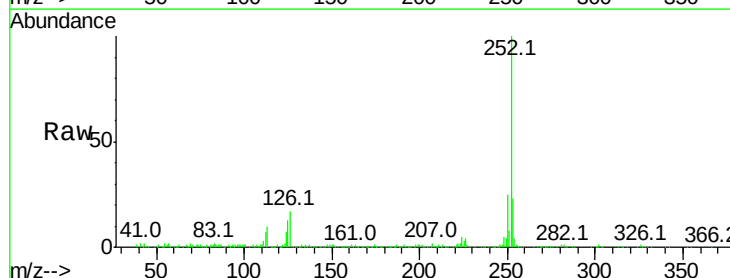
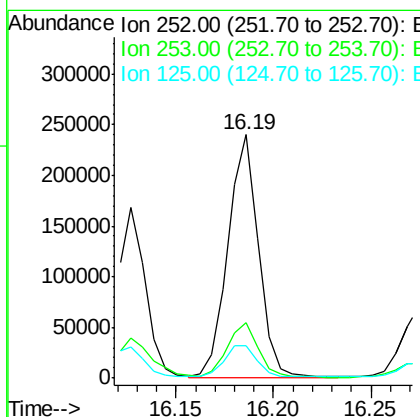
Manual Integrations
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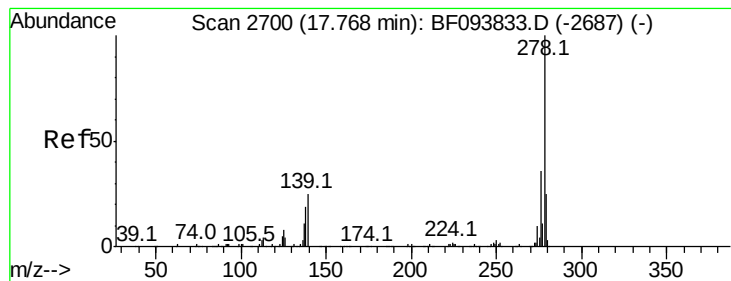
mohammad
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#89
Benzo(a)pyrene
Concen: 21.32 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094159.D
Acq: 4 Apr 2017 10:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	13.4	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.34 ng

RT: 17.60 min Scan# 2672

Delta R.T. -0.03 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Instrument :

BNA_F

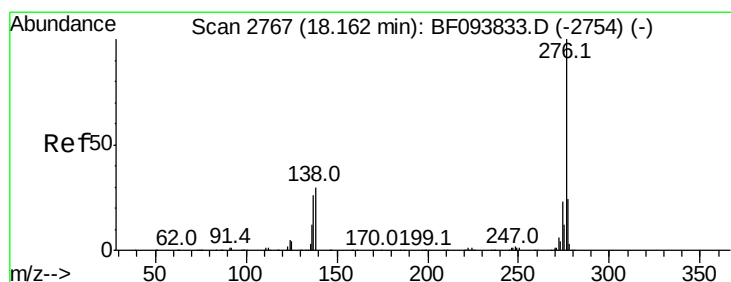
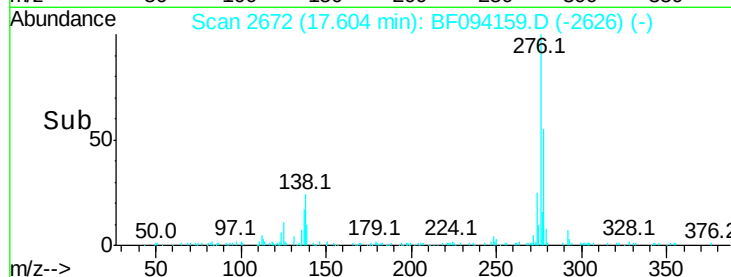
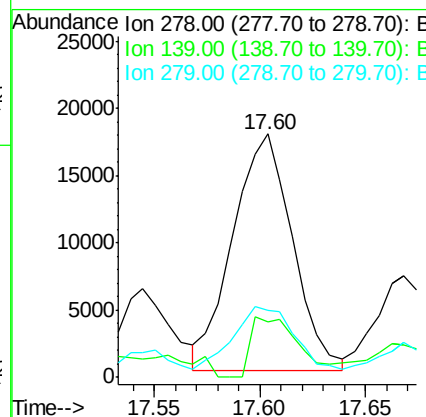
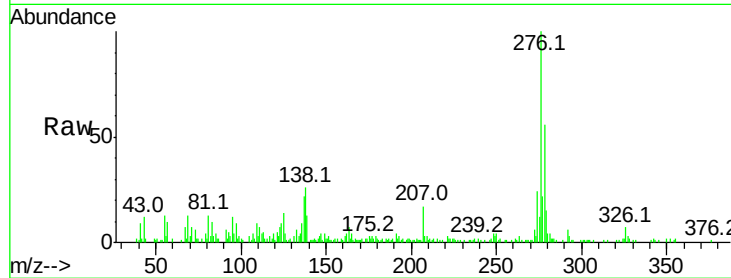
ClientSampleId :

B-42-S1(1.0-1.5)DL

Tot Ion:	278	Resp:	34522
Ion Ratio	Lower	Upper	
278	100		
139	22.6	16.6	24.8
279	27.3	19.3	28.9

Manual Integrations
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mohammad
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#91

Benzo(g,h,i)perylene

Concen: 12.67 ng

RT: 17.99 min Scan# 2737

Delta R.T. -0.02 min

Lab File: BF094159.D

Acq: 4 Apr 2017 10:21

Tgt Ion:	276	Resp:	131861
Ion Ratio	Lower	Upper	
276	100		
277	24.3	18.6	28.0
138	31.3	25.4	38.0

