

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022618\
 Data File : BF103237.D
 Acq On : 27 Feb 2018 00:10
 Operator : SJ/JU
 Sample : J1691-17 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B5

Manual Integrations
 APPROVED

Sohil
 2/27/2018 12:23:14 PM

Quant Time: Feb 27 03:00:54 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 02:43:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	142298	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	579160	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	230228	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	354616	20.00	ng	0.00
75) Chrysene-d12	14.06	240	190016	20.00	ng	0.01
86) Perylene-d12	15.56	264	161011	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	207892	22.10	ng	0.00
7) Phenol-d6	6.50	99	247517	21.50	ng	0.00
23) Nitrobenzene-d5	7.43	82	131012	12.92	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	34384	17.64	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	255333	14.10	ng	0.00
78) Terphenyl-d14	12.99	244	180582	22.85	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.18	128	141058	4.975	ng	97
37) 2-Methylnaphthalene	8.87	142	139316	7.603	ng	100
45) 1,1'-Biphenyl	9.33	154	41509	2.152	ng	96
48) Acenaphthylene	9.77	152	140897	6.000	ng	98
51) Acenaphthene	9.95	154	255064	18.627	ng	99
54) Dibenzofuran	10.12	168	331396	17.630	ng	98
57) Fluorene	10.47	166	474930	29.659	ng	99
70) Phenanthrene	11.45	178	2453541	125.722	ng	99
71) Anthracene	11.49	178	1095672	54.751	ng	100
72) Carbazole	11.64	167	178509	8.957	ng	99
74) Fluoranthene	12.64	202	2605432	132.855	ng	98
77) Pvrene	12.87	202	2239595	151.173	ng	98
80) Benzo(a)anthracene	14.06	228	1164954	94.489	ng	97
82) Chrysene	14.09	228	1017047	84.959	ng	98
85) Indeno(1,2,3-cd)pyrene	17.09	276	445496	47.007	ng	96
87) Benzo(b)fluoranthene	15.13	252	1108929m	104.751	ng	
88) Benzo(k)fluoranthene	15.15	252	332832m	33.388	ng	
89) Benzo(a)pyrene	15.50	252	733378	77.576	ng	# 95
90) Dibenzo(a,h)anthracene	17.09	278	126997m	17.385	ng	
91) Benzo(a,h,i)perylene	17.56	276	424827	59.505	ng	94

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

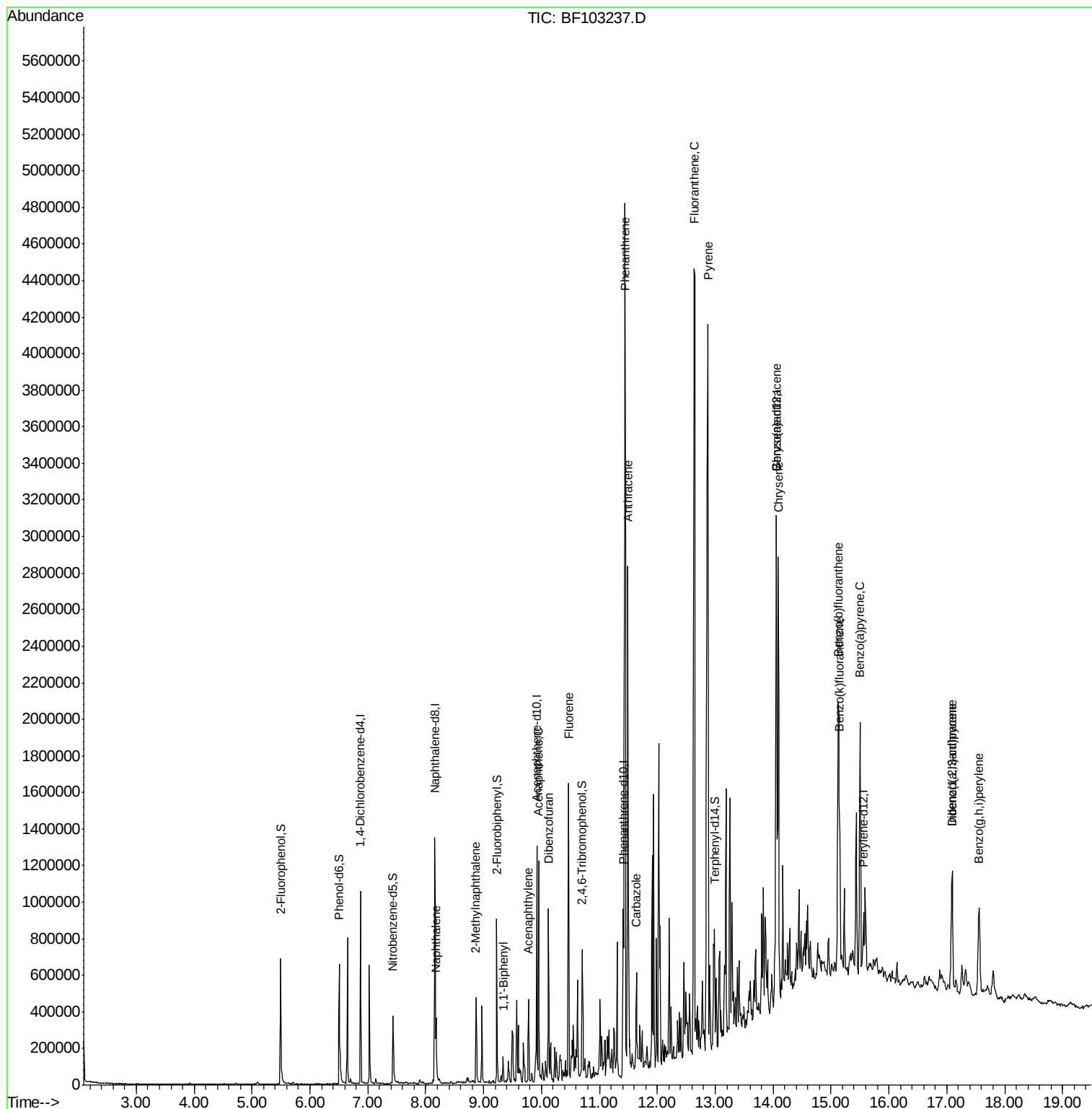
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022618\
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ALS Vial : 18 Sample Multiplier: 1

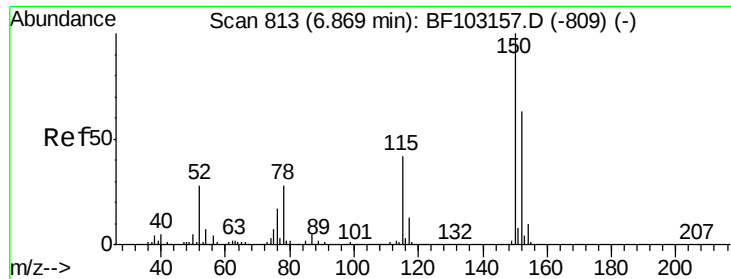
Instrument :
BNA_F
ClientSampleId :
B5

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#1

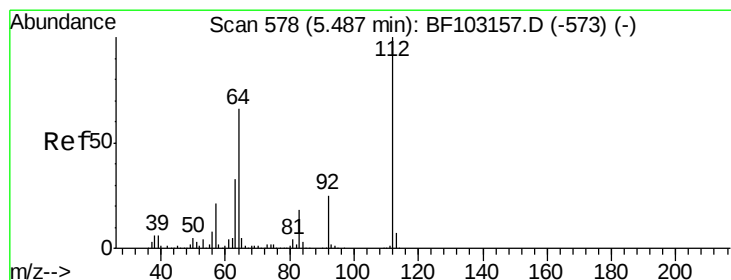
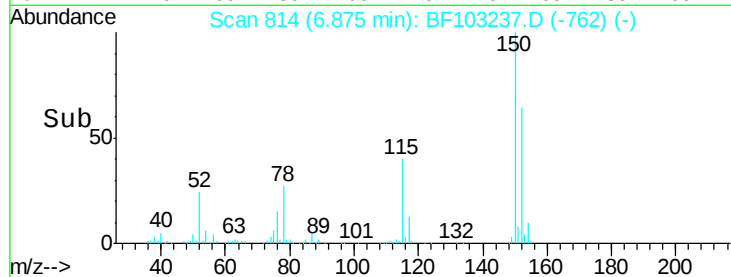
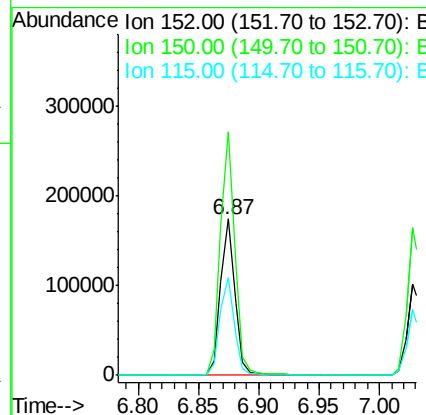
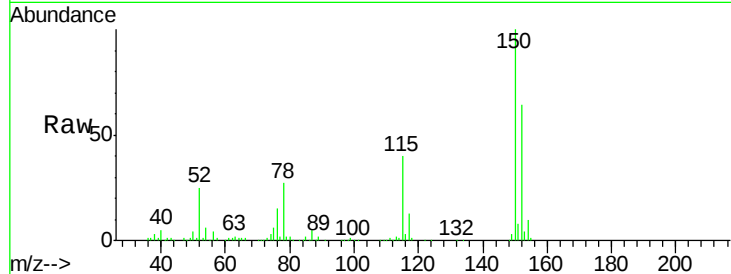
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. 0.01 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampled :
B5

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.6	186.8
115	62.3	50.1	75.1

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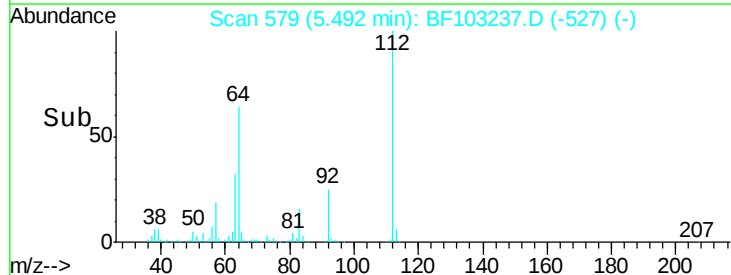
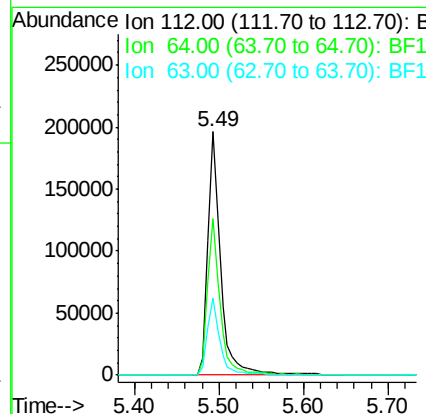
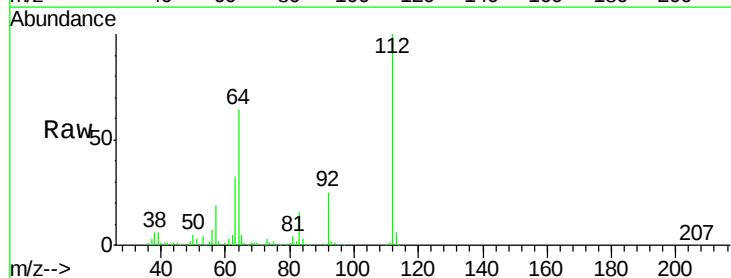
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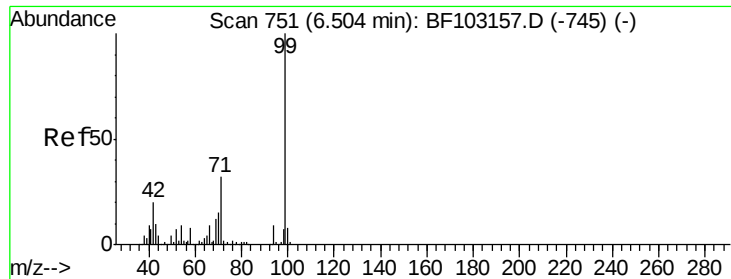


#5

2-Fluorophenol
Concen: 22.096 ng
RT: 5.49 min Scan# 579
Delta R.T. 0.01 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.1	47.9	71.9
63	31.8	23.7	35.5





#7

Phenol-d6

Concen: 21.499 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

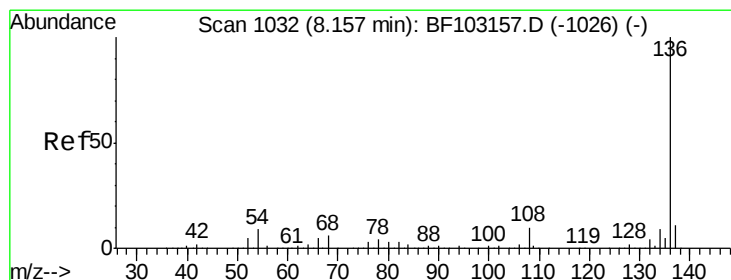
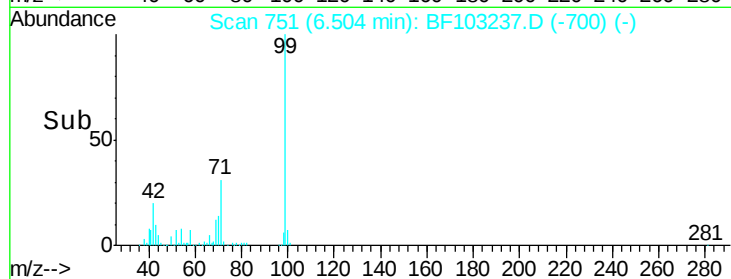
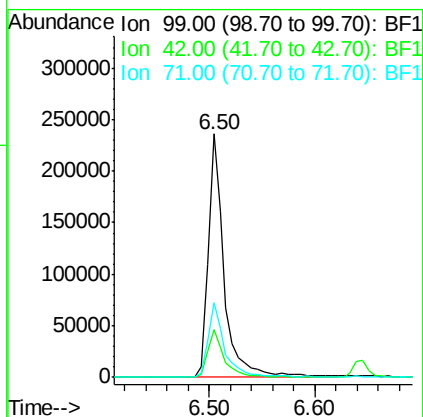
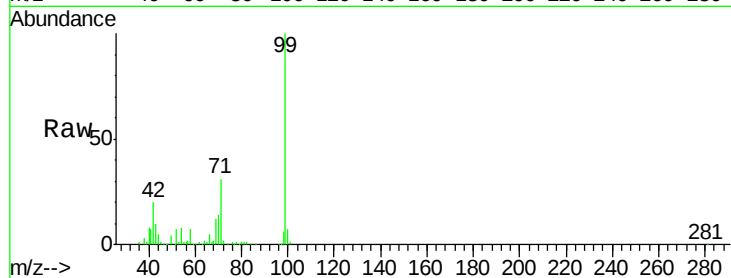
ClientSampleId :

B5

Tot Ion:	99	Resp:	247517
Ion Ratio	Lower	Upper	
99	100		
42	19.8	14.5	21.7
71	30.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

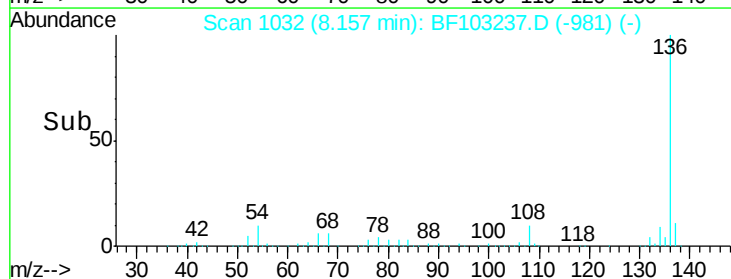
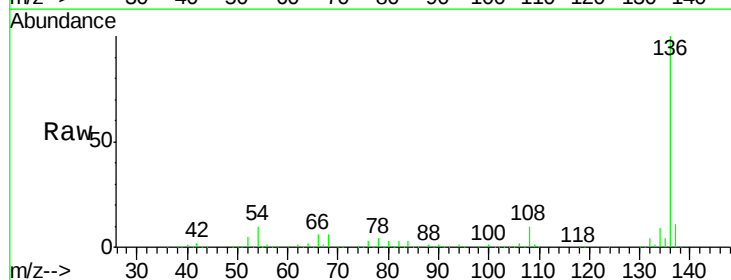
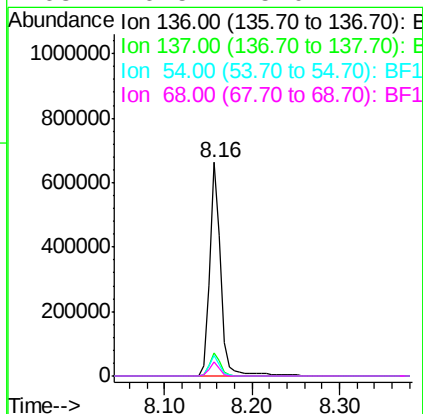
RT: 8.16 min Scan# 1032

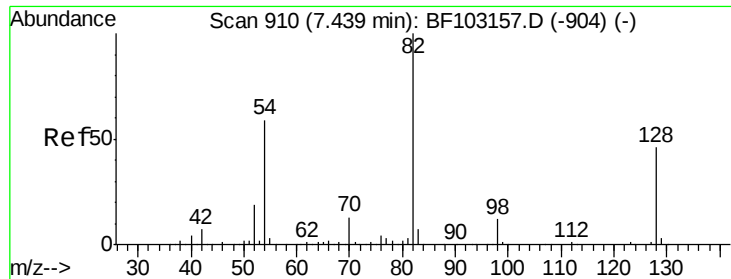
Delta R.T. -0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Tgt Ion:	136	Resp:	579160
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	9.6	6.6	9.8
68	6.5	5.0	7.4





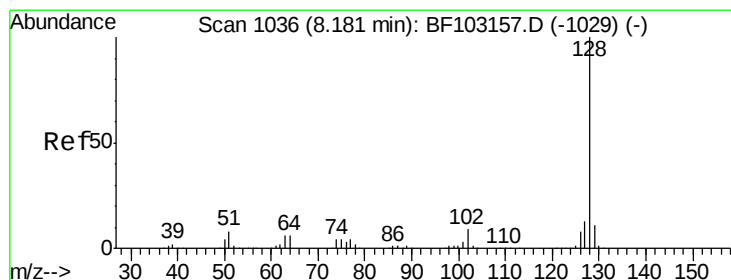
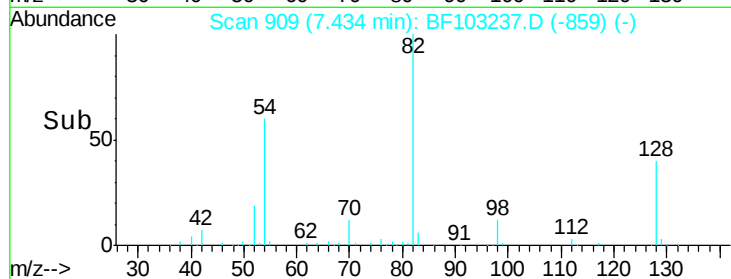
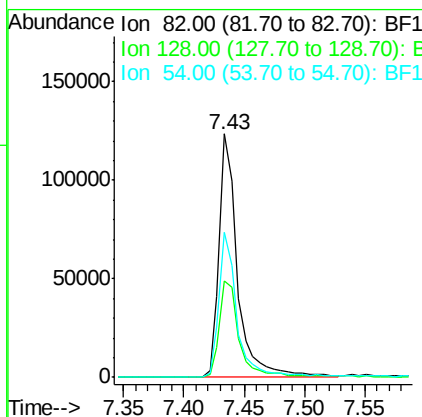
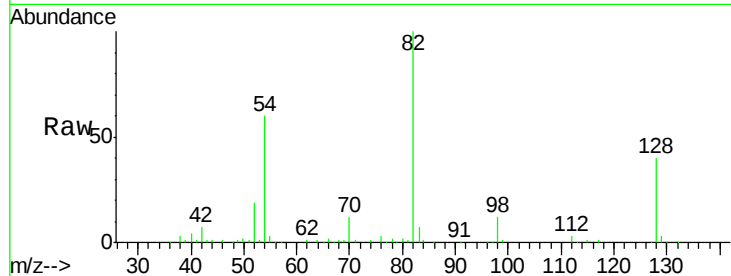
#23
 Nitrobenzene-d5
 Concen: 12.919 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Instrument :
 BNA_F
 ClientSampled :
 B5

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.6	36.1	54.1
54	59.7	41.4	62.2

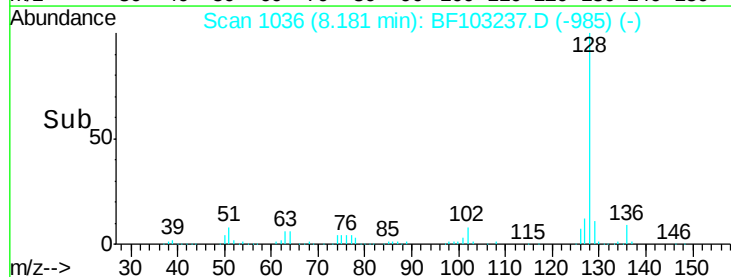
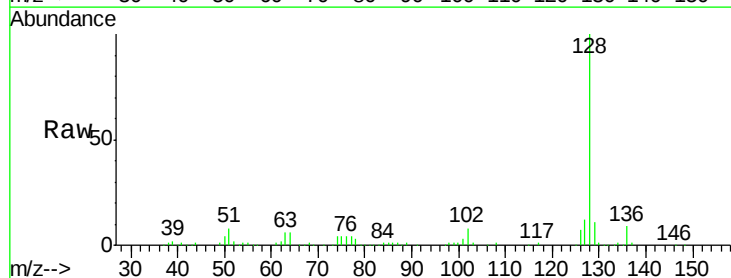
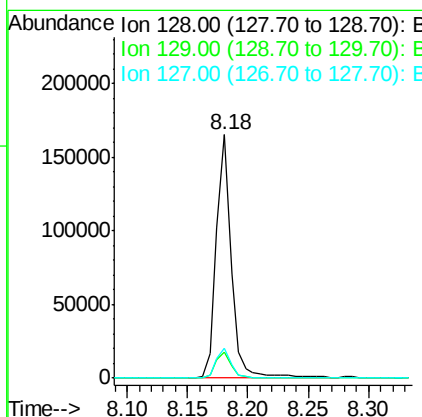
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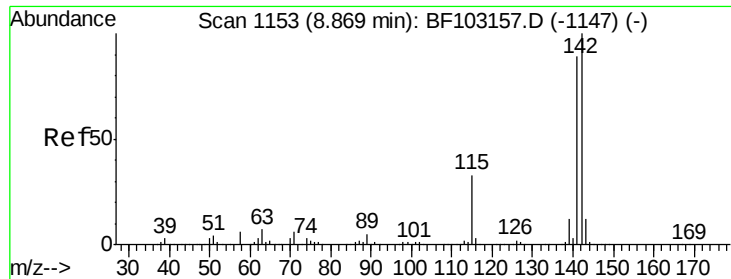
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#31
 Naphthalene
 Concen: 4.975 ng
 RT: 8.18 min Scan# 1036
 Delta R.T. -0.00 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.8	13.2
127	12.1	10.9	16.3





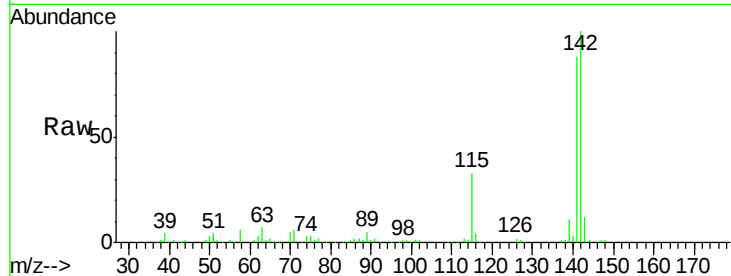
#37
2-Methylnaphthalene
Concen: 7.603 ng
RT: 8.87 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampleId :
B5

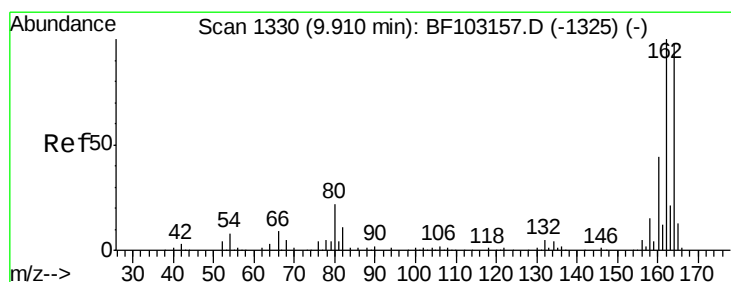
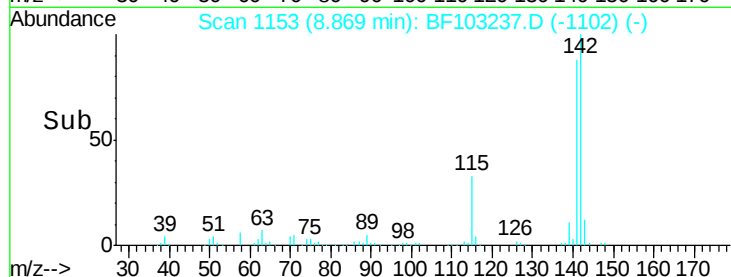
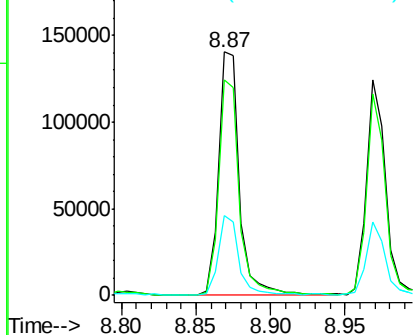
Tot Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2
115	32.6	26.1	39.1

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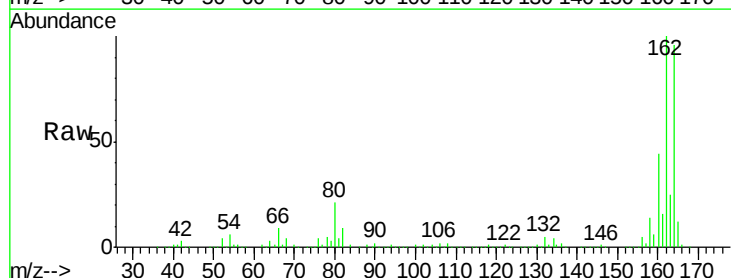


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

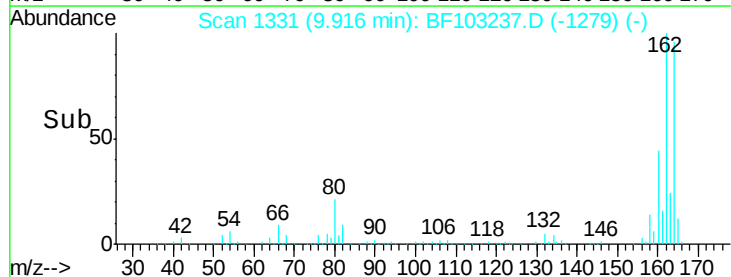
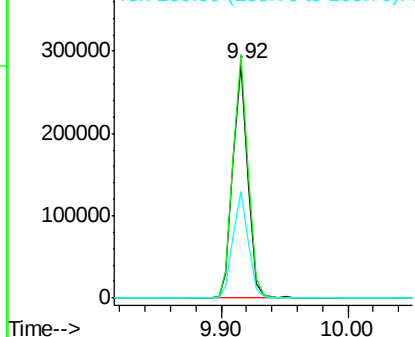


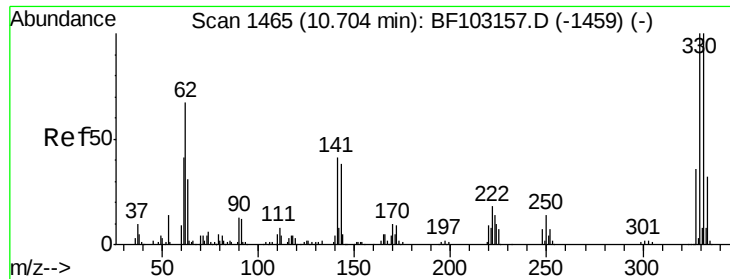
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.01 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	86.1	129.1
160	45.6	38.3	57.5



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: 17.644 ng

RT: 10.71 min Scan# 1466

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

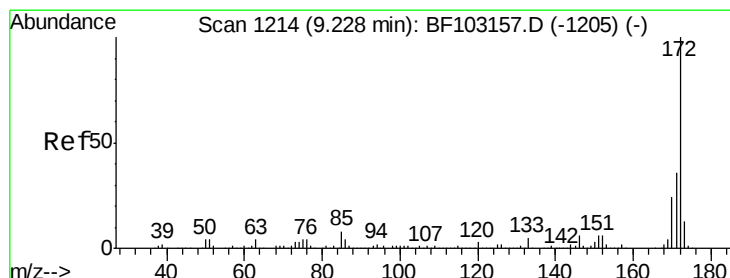
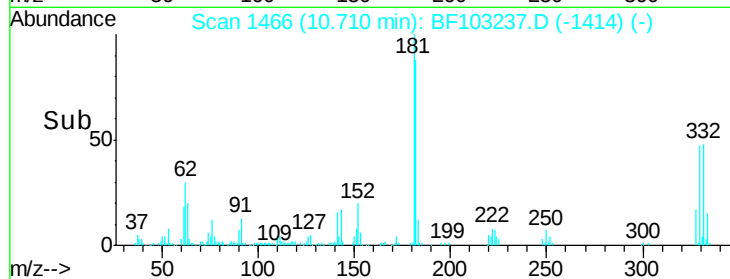
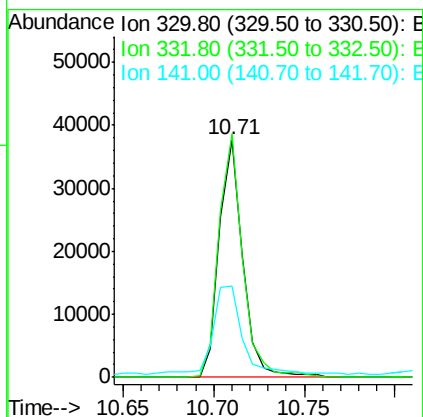
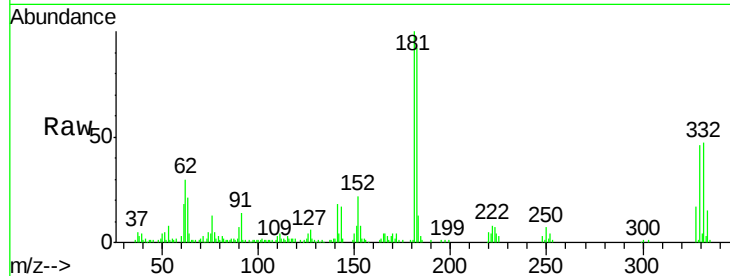
ClientSampled :

B5

Tot Ion	Ratio	Lower	Upper
330	100		
332	103.2	77.0	115.6
141	48.5	29.9	44.9

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#44

2-Fluorobiphenyl

Concen: 14.099 ng

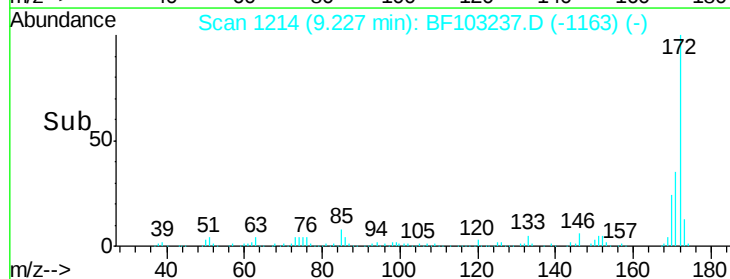
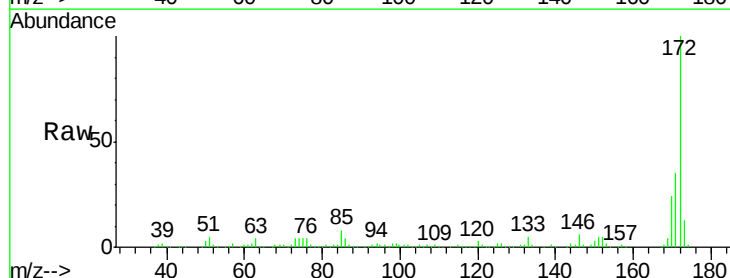
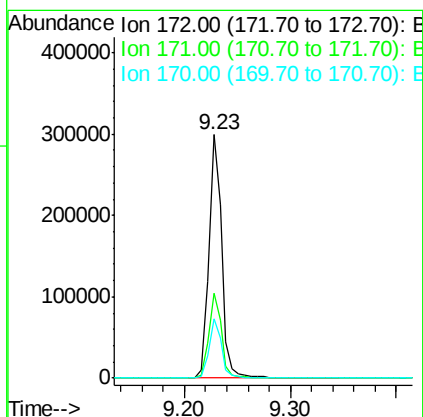
RT: 9.23 min Scan# 1214

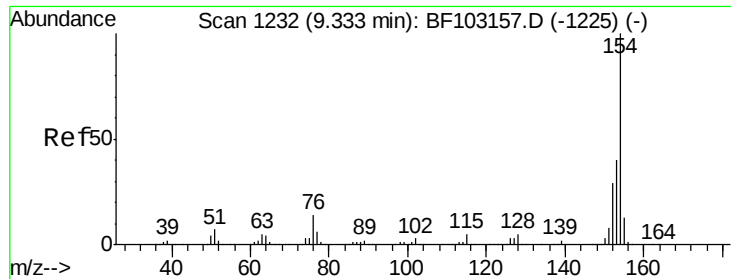
Delta R.T. 0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.7	44.5
170	24.2	19.6	29.4





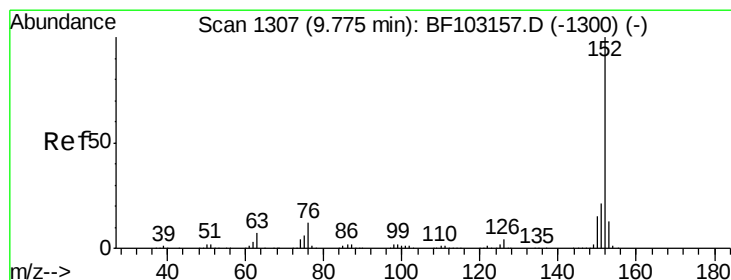
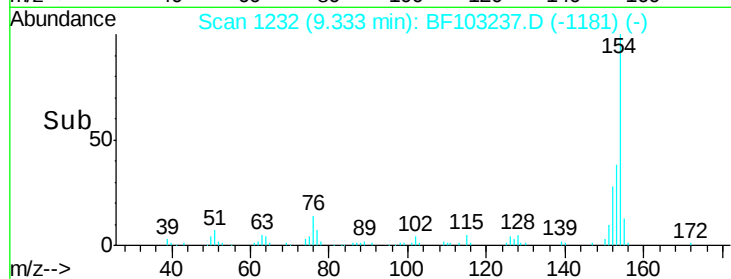
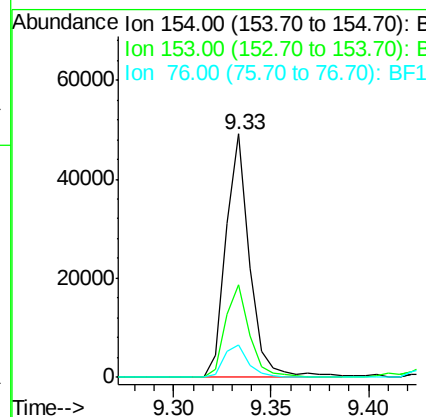
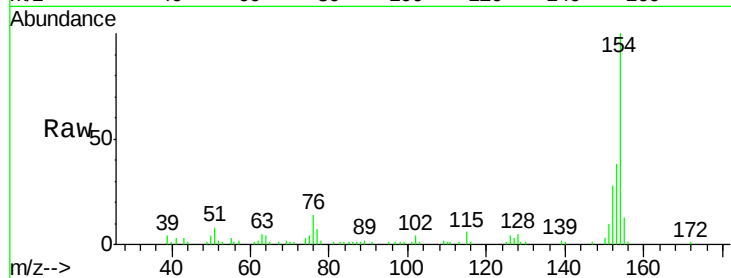
#45
1,1'-Biphenyl
Concen: 2.152 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.00 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampled :
B5

Tot Ion	Ratio	Lower	Upper
154	100		
153	37.8	21.3	61.3
76	13.5	0.0	34.0

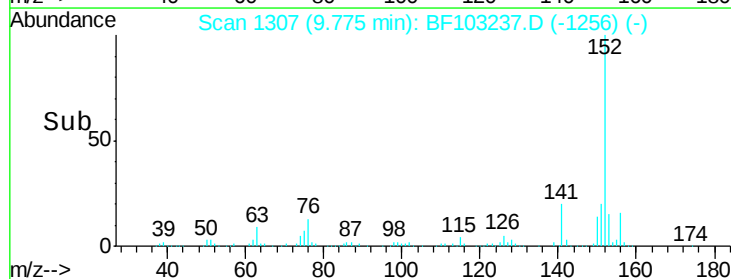
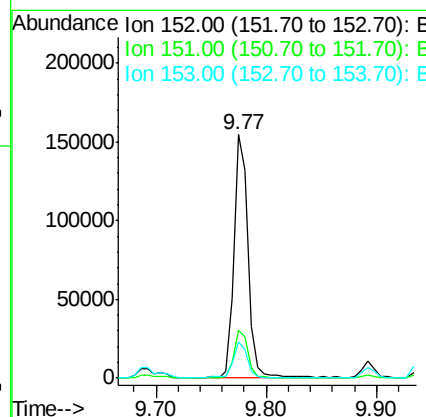
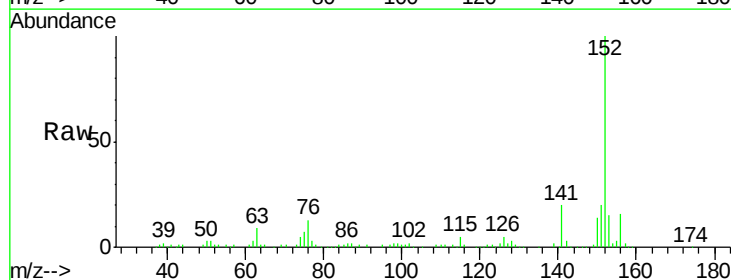
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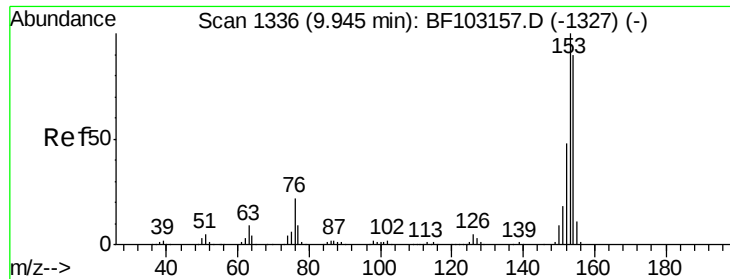
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#48
Acenaphthylene
Concen: 6.000 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.00 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.3	24.5
153	14.9	10.7	16.1





#51

Acenaphthene

Concen: 18.627 ng

RT: 9.95 min Scan# 1337

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

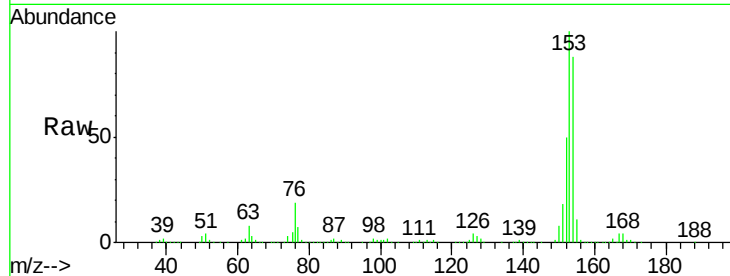
ClientSampleId :

B5

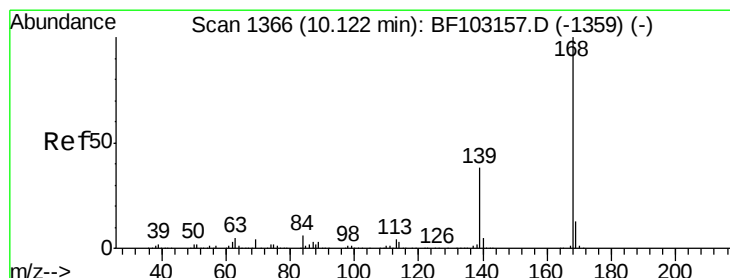
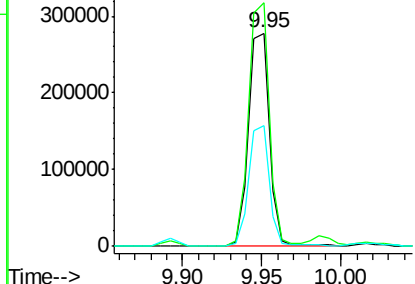
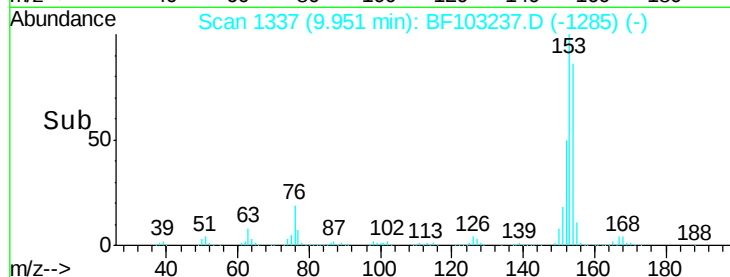
Tot Ion:	154	Resp:	255064
Ion Ratio	Lower	Upper	
154	100		
153	114.2	91.2	136.8
152	56.7	43.8	65.8

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: 17.630 ng

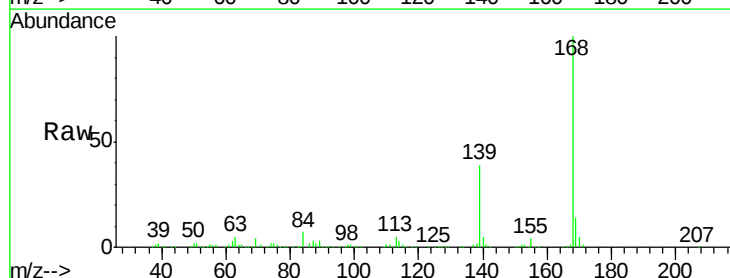
RT: 10.12 min Scan# 1366

Delta R.T. 0.00 min

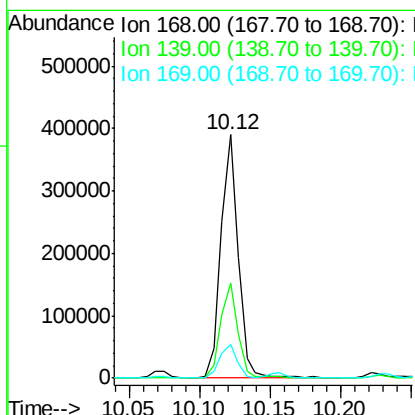
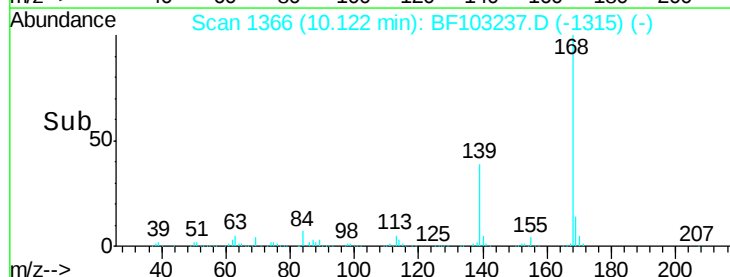
Lab File: BF103237.D

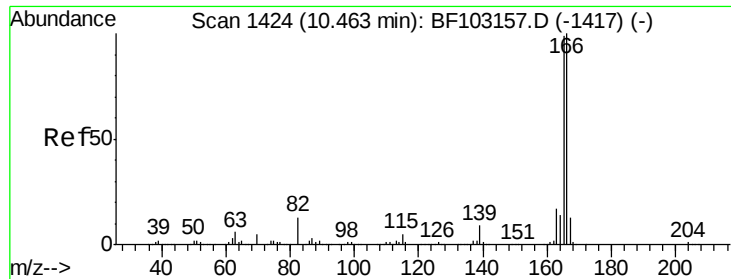
Acq: 27 Feb 2018 00:10

Tgt Ion:	168	Resp:	331396
Ion Ratio	Lower	Upper	
168	100		
139	39.2	30.1	45.1
169	14.0	10.9	16.3



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





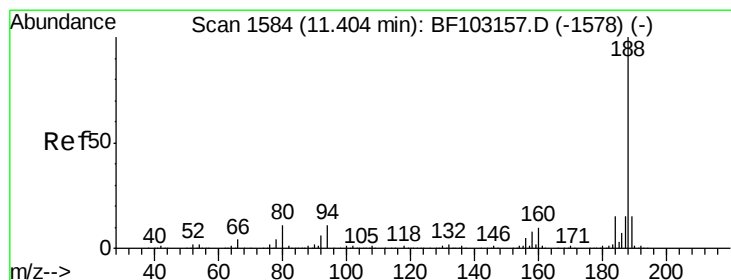
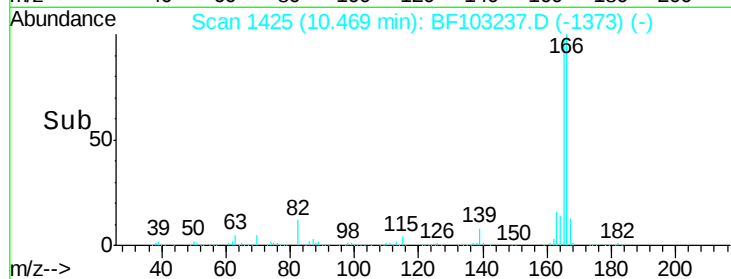
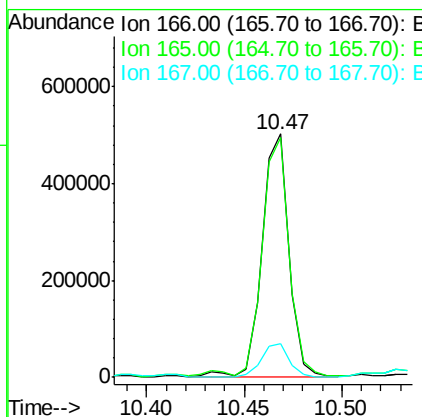
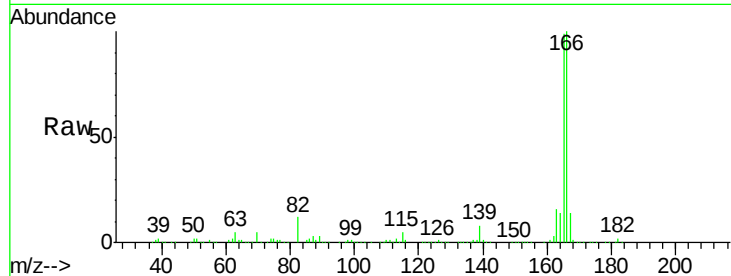
#57
Fluorene
 Concen: 29.659 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. 0.01 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Instrument :
 BNA_F
 ClientSampleId :
 B5

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.8	119.8
167	13.8	10.6	16.0

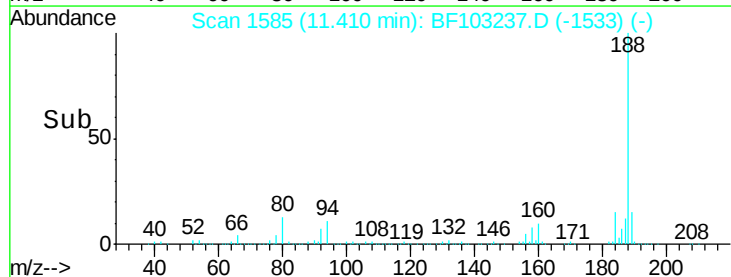
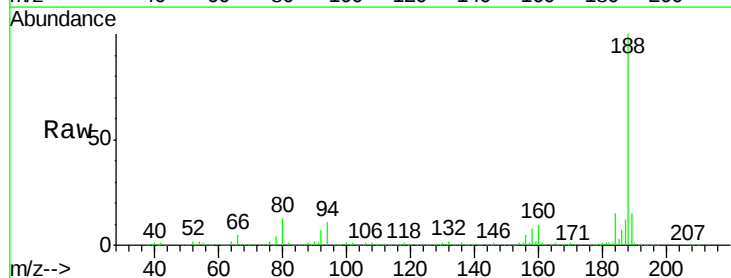
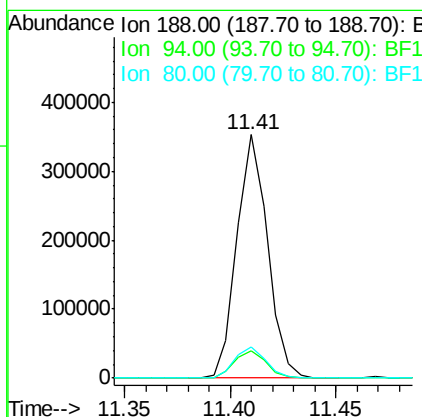
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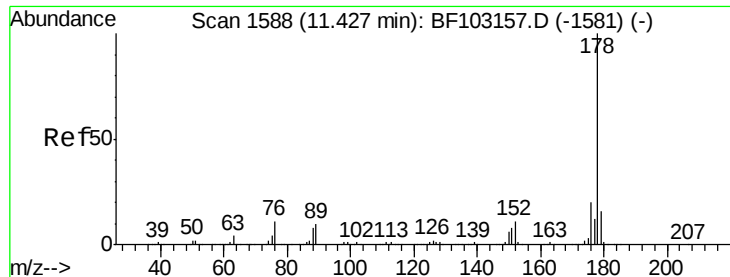
Sohil
 2/27/2018 12:23:14 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.3	8.5	12.7
80	12.6	9.2	13.8





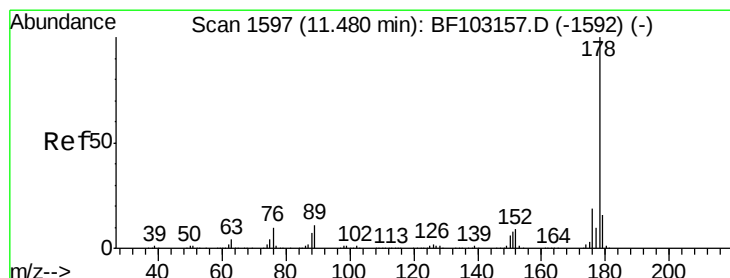
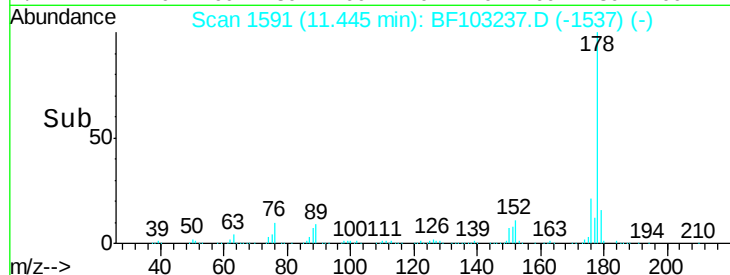
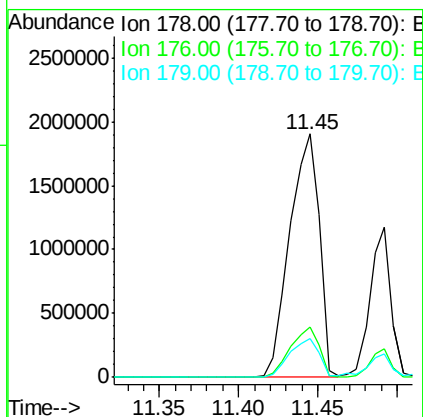
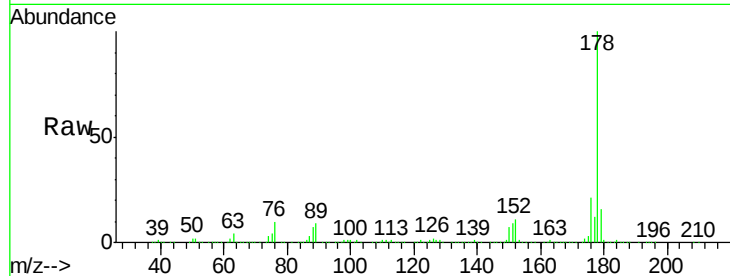
#70
Phenanthrene
Concen: 125.722 ng
RT: 11.45 min Scan# 1591
Delta R.T. 0.02 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampled :
B5

Tot Ion:178 Resp: 2453541
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.8
179 15.8 13.0 19.6

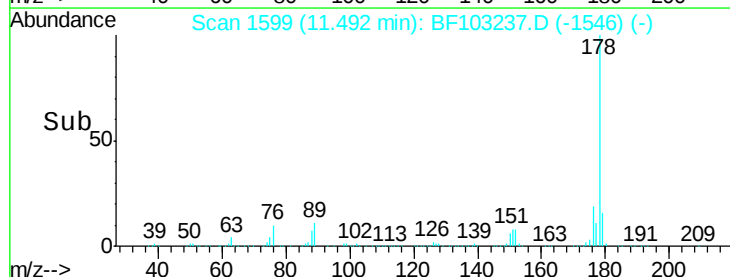
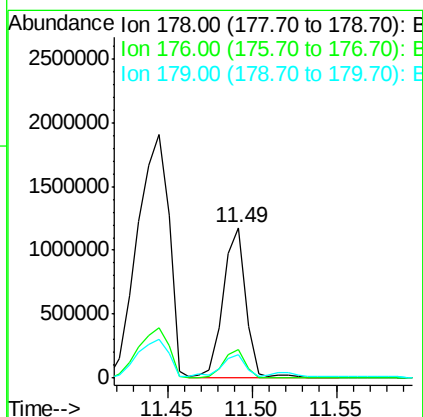
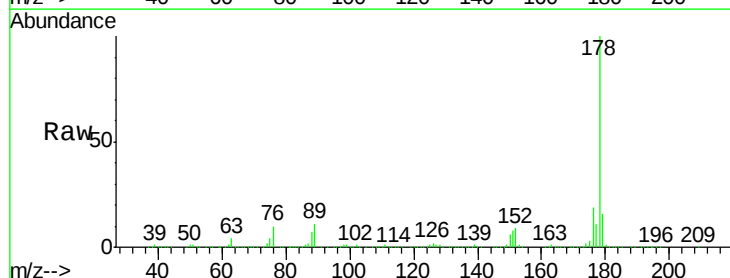
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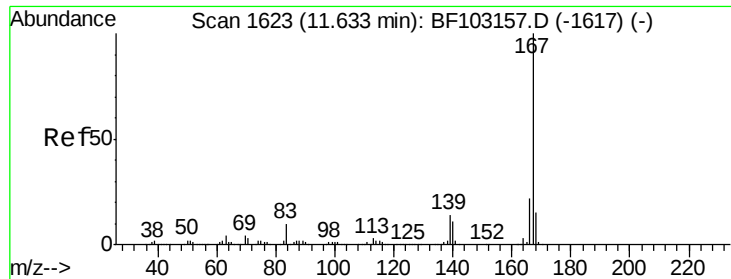
Sohil
2/27/2018 12:23:14 PM



#71
Anthracene
Concen: 54.751 ng
RT: 11.49 min Scan# 1599
Delta R.T. 0.01 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion:178 Resp: 1095672
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.9 12.6 19.0





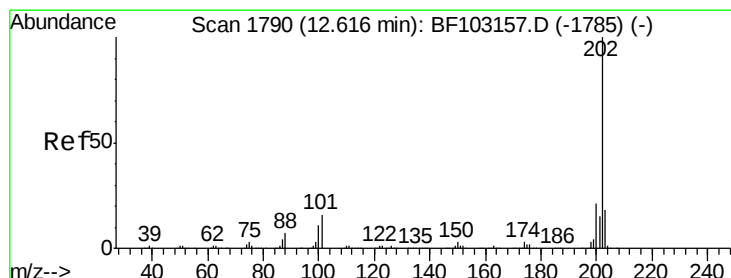
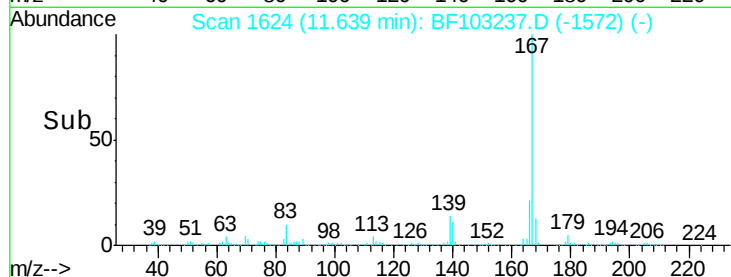
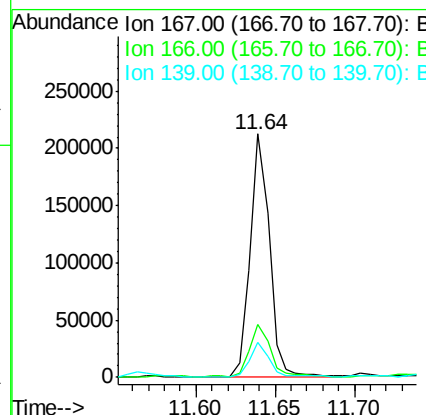
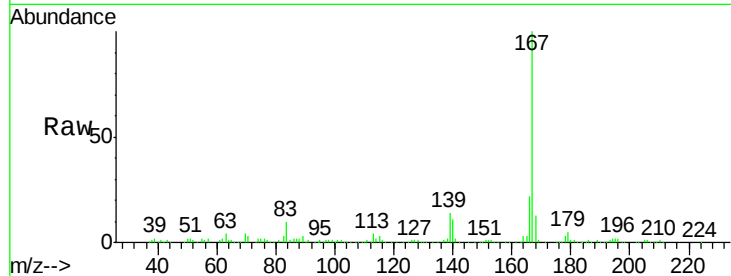
#72
 Carbazole
 Concen: 8.957 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. 0.01 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Instrument :
 BNA_F
 ClientSampleId :
 B5

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.6	26.4
139	14.1	10.9	16.3

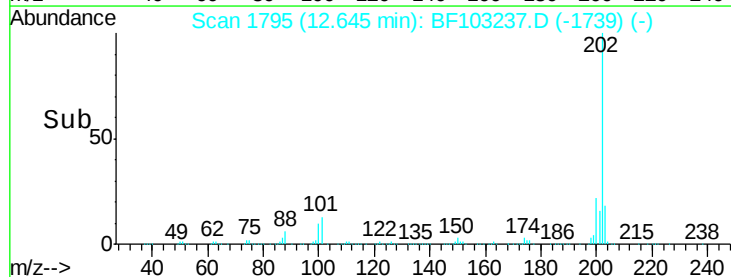
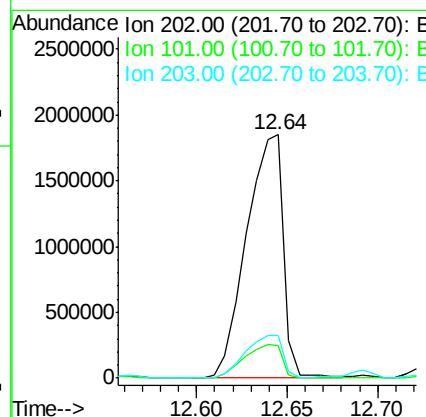
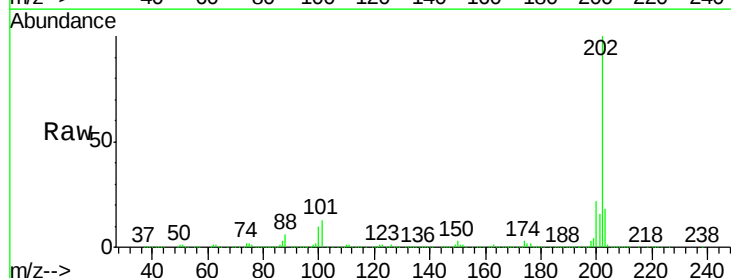
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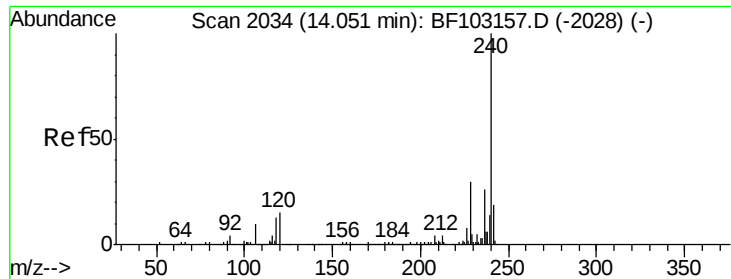
Sohil
 2/27/2018 12:23:14 PM



#74
 Fluoranthene
 Concen: 132.855 ng
 RT: 12.64 min Scan# 1795
 Delta R.T. 0.03 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	34.1
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

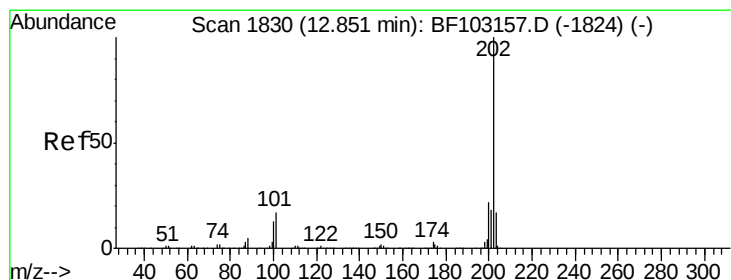
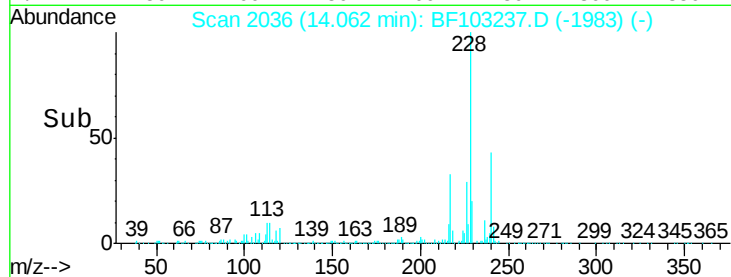
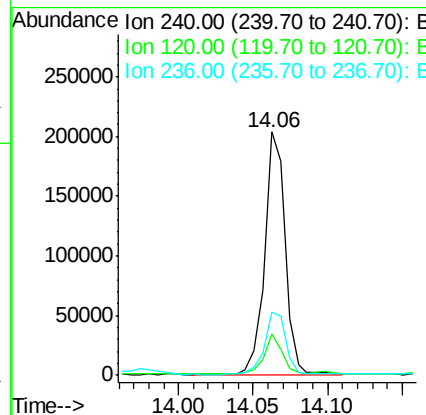
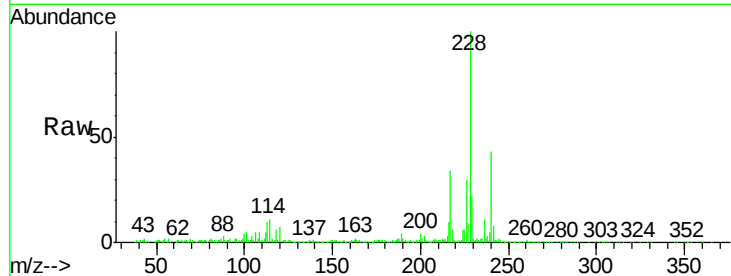
ClientSampleId :

B5

Tot Ion	Ratio	Lower	Upper
240	100		
120	17.1	9.5	14.3
236	25.8	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 151.173 ng

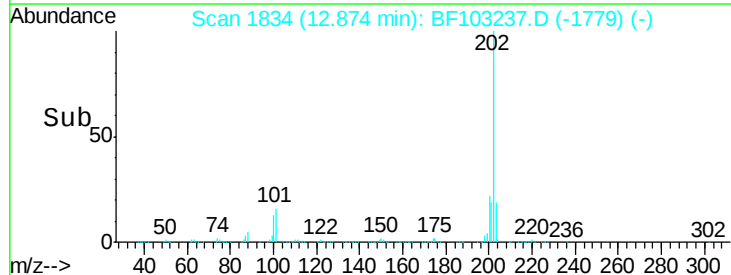
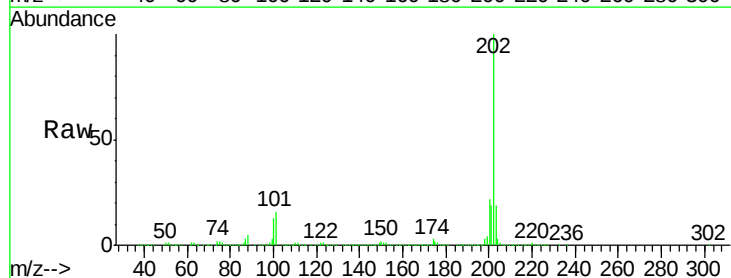
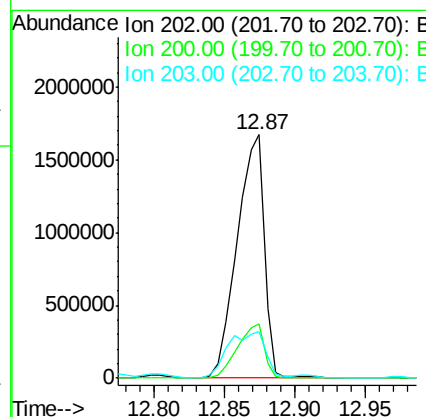
RT: 12.87 min Scan# 1834

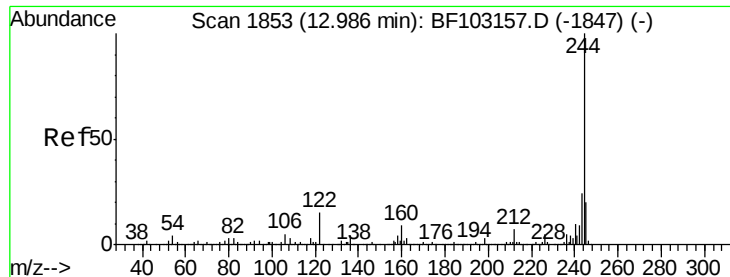
Delta R.T. 0.02 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.4	26.2
203	19.1	14.3	21.5





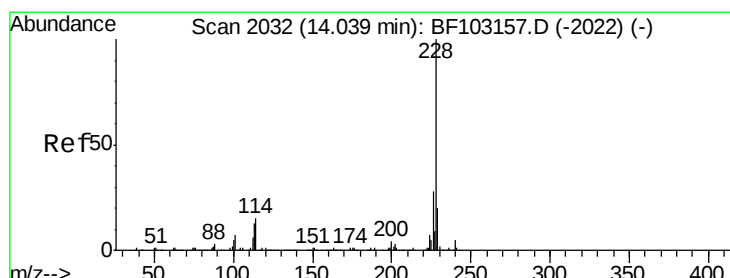
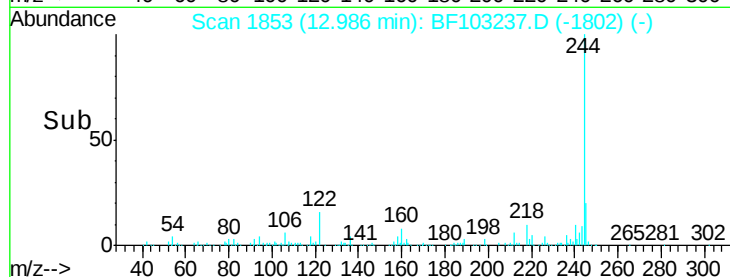
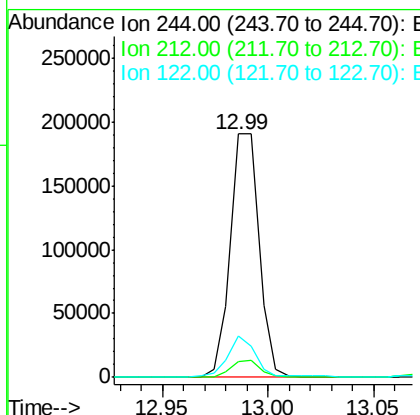
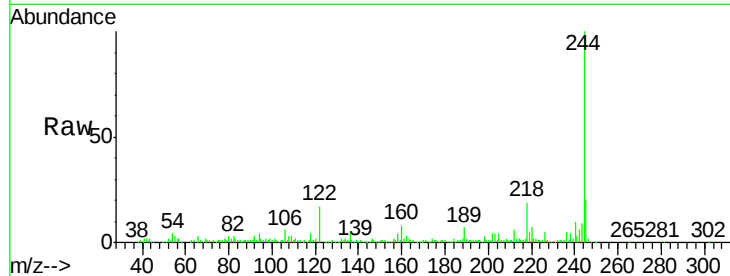
#78
 Terphenyl-d14
 Concen: 22.845 ng
 RT: 12.99 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Instrument :
 BNA_F
 ClientSampled :
 B5

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	16.7	11.0	16.4

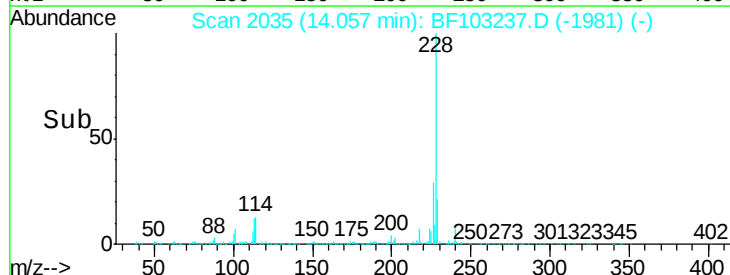
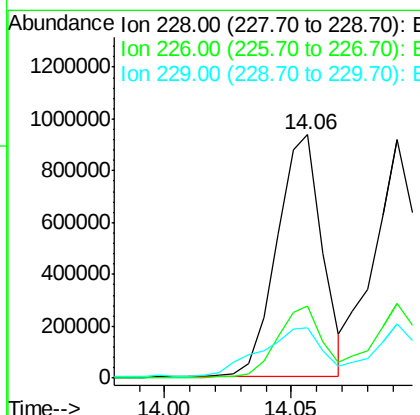
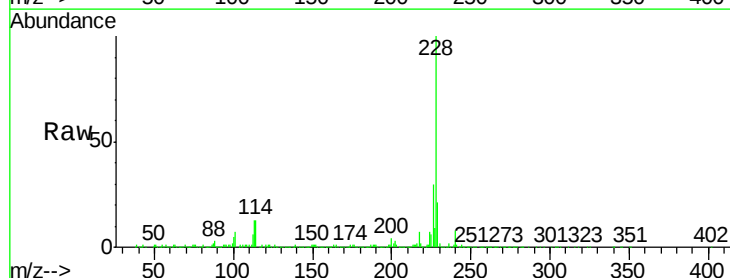
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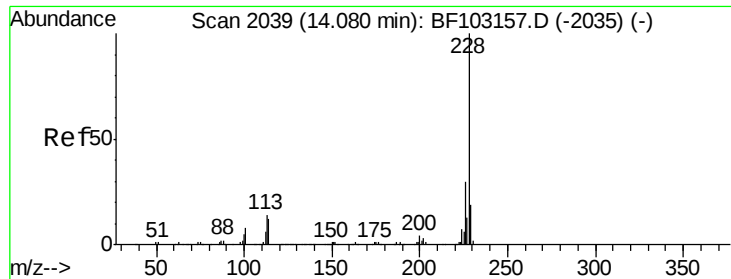
Sohil
 2/27/2018 12:23:14 PM



#80
 Benzo(a)anthracene
 Concen: 94.489 ng
 RT: 14.06 min Scan# 2035
 Delta R.T. 0.02 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.6	33.8
229	20.9	15.8	23.6





#82

Chrysene

Concen: 84.959 ng

RT: 14.09 min Scan# 2041

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

ClientSampleId :

B5

Tot Ion:228 Resp: 1017047

Ion Ratio Lower Upper

228 100

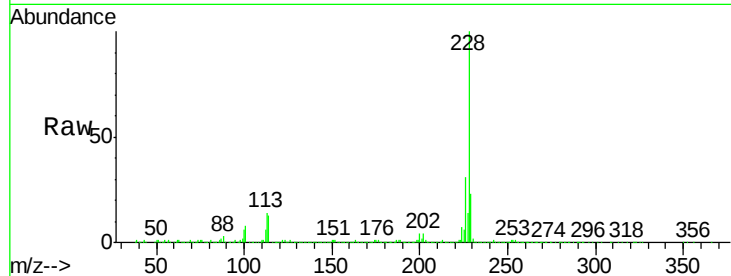
226 31.1 25.0 37.6

229 22.6 16.2 24.4

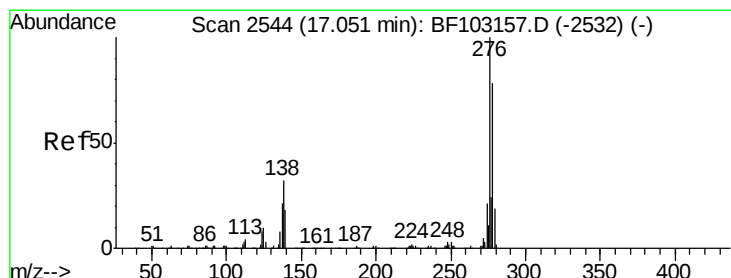
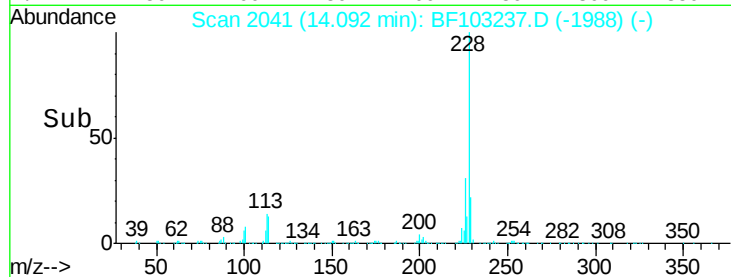
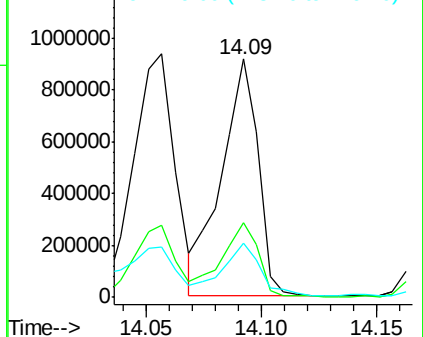
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 47.007 ng

RT: 17.09 min Scan# 2551

Delta R.T. 0.04 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

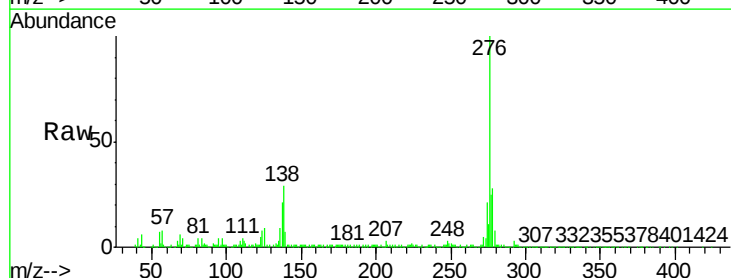
Tgt Ion:276 Resp: 445496

Ion Ratio Lower Upper

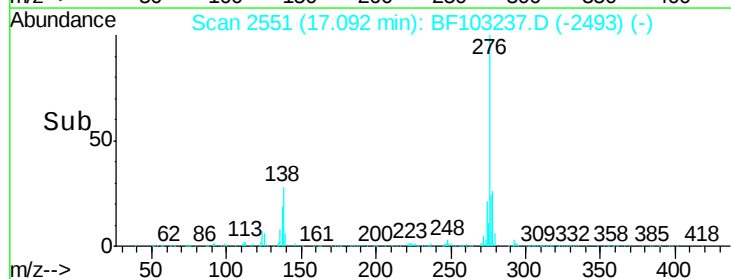
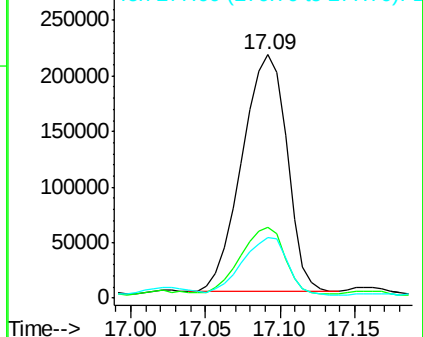
276 100

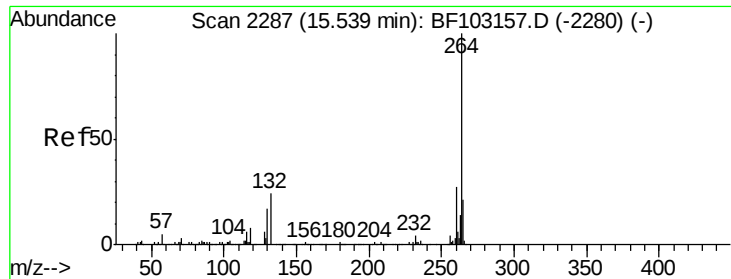
138 27.9 25.0 37.6

277 24.5 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.56 min Scan# 2291

Delta R.T. 0.02 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

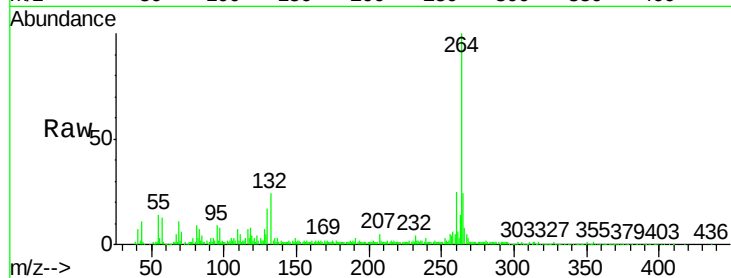
ClientSampleId :

B5

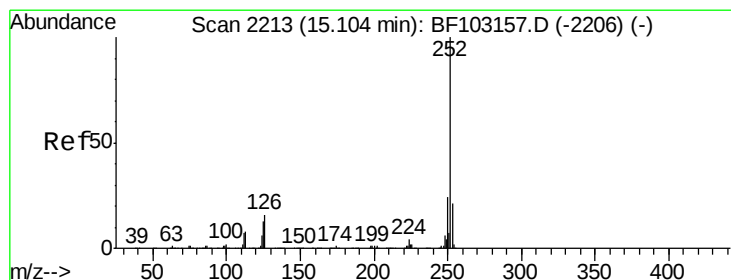
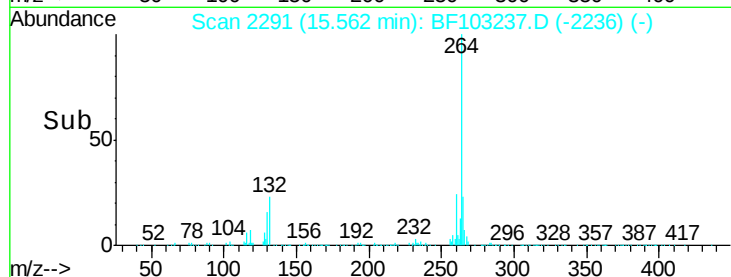
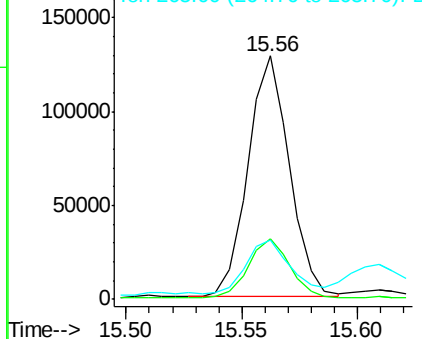
Tot Ion:	264	Resp:	161011
Ion Ratio	Lower	Upper	
264	100		
260	24.9	19.2	28.8
265	24.4	17.5	26.3

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 104.751 ng m

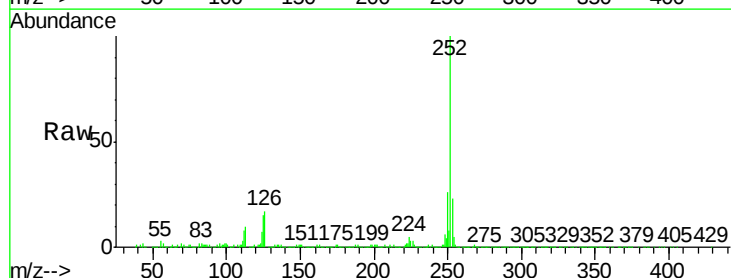
RT: 15.13 min Scan# 2217

Delta R.T. 0.02 min

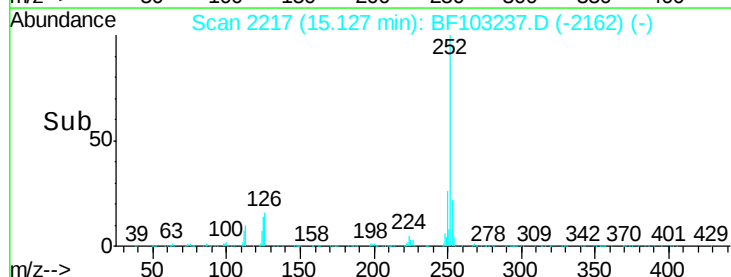
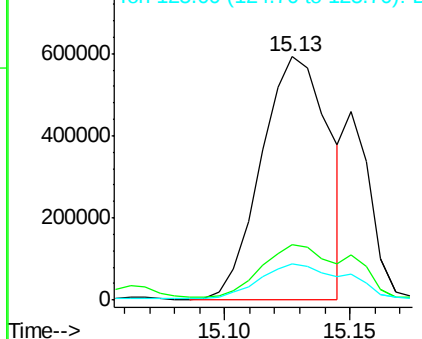
Lab File: BF103237.D

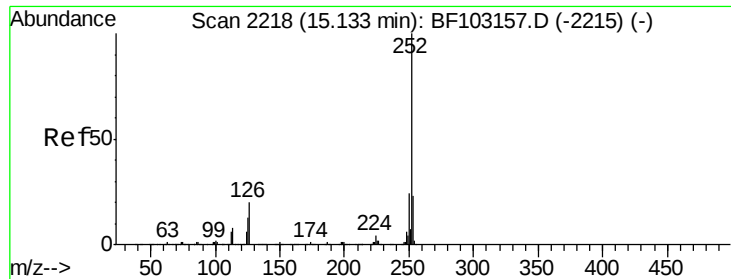
Acq: 27 Feb 2018 00:10

Tgt Ion:	252	Resp:	1108929
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.0	25.6
125	14.7	9.0	13.6#



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





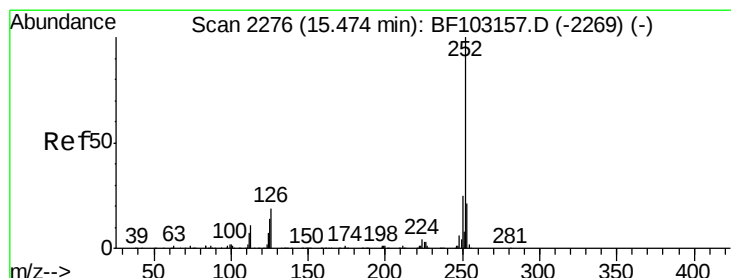
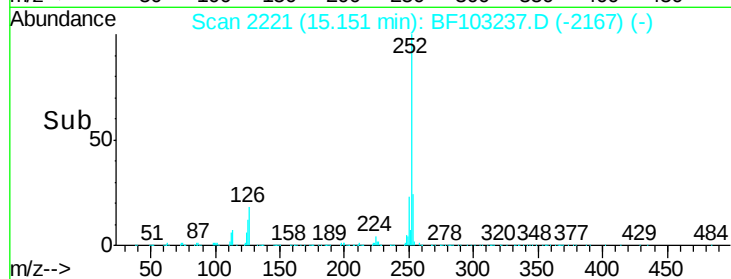
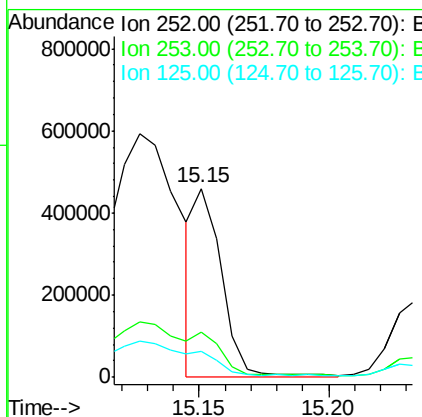
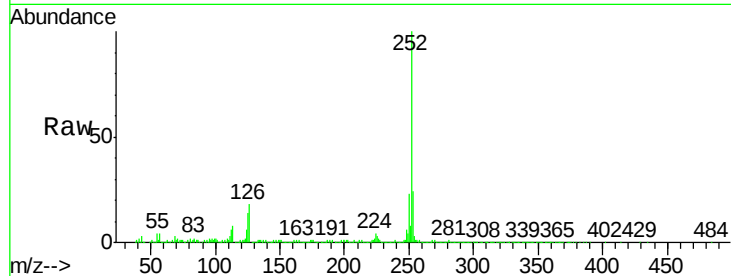
#88
Benzo(k)fluoranthene
Concen: 33.388 ng m
RT: 15.15 min Scan# 2221
Delta R.T. 0.02 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampleId :
B5

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	13.5	10.2	15.2

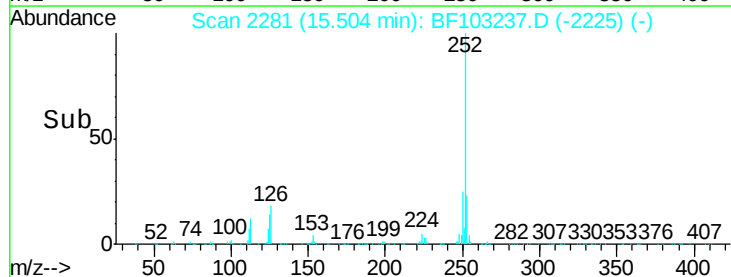
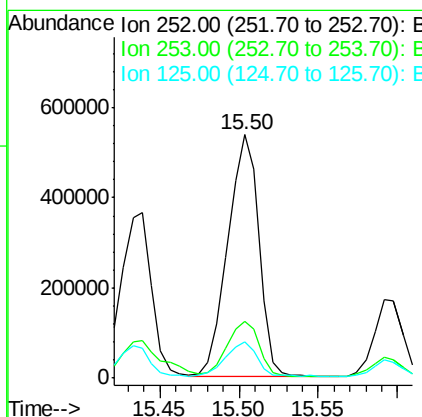
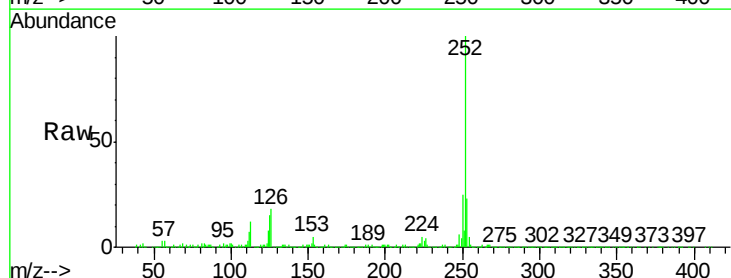
Manual Integrations
APPROVED

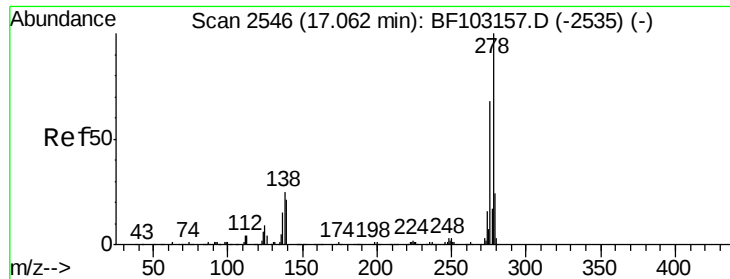
Sohil
2/27/2018 12:23:14 PM



#89
Benzo(a)pyrene
Concen: 77.576 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.03 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	14.8	9.8	14.6





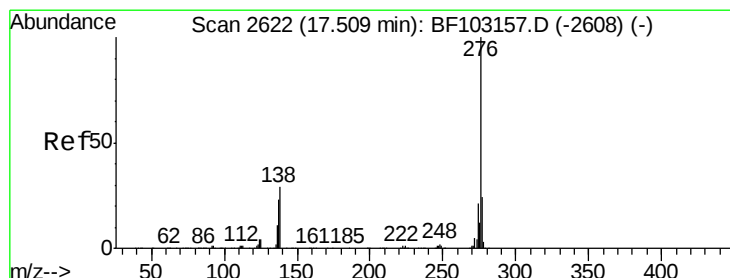
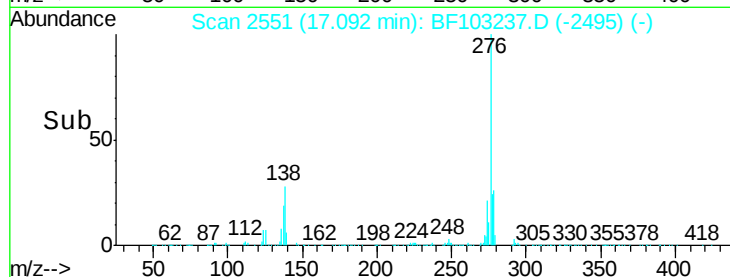
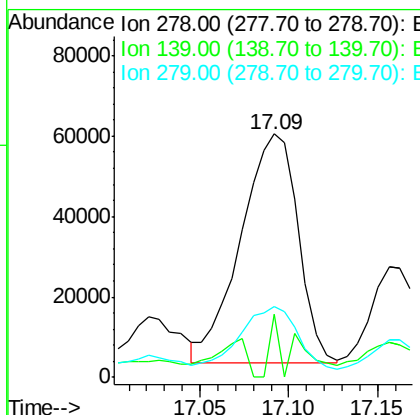
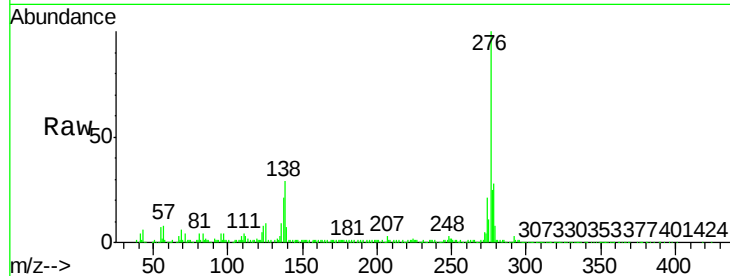
#90
Dibenzo(a,h)anthracene
Concen: 17.385 ng m
RT: 17.09 min Scan# 2551
Delta R.T. 0.03 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampleId :
B5

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.1	15.9	23.9#
279	29.1	19.0	28.4#

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 59.505 ng
RT: 17.56 min Scan# 2630
Delta R.T. 0.05 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.0	17.9	26.9
138	29.3	21.8	32.8

