

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
 Data File : BF100940.D
 Acq On : 28 Nov 2017 18:06
 Operator : SJ/JU
 Sample : I6610-20
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(10-12)-20171127

Manual Integrations
 APPROVED

Sohil
 11/29/2017 4:28:41 PM

Quant Time: Nov 29 07:22:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 15:21:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	61600	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	221398	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	86786	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	136368	20.00	ng	0.00
75) Chrysene-d12	14.04	240	127702	20.00	ng	0.01
86) Perylene-d12	15.52	264	130456	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	386061	100.46	ng	0.00
7) Phenol-d6	6.49	99	445948	94.11	ng	0.00
23) Nitrobenzene-d5	7.42	82	271063	80.94	ng	0.00
41) 2,4,6-Tribromophenol	10.69	330	87700	99.17	ng	0.00
44) 2-Fluorobiphenyl	9.22	172	532428	93.42	ng	0.00
78) Terphenyl-d14	12.97	244	401262	72.20	ng	0.00
Target Compounds						
10) Phenol	6.50	94	17614	3.541	ng	Qvalue 93
31) Naphthalene	8.16	128	119113	11.170	ng	100
37) 2-Methylnaphthalene	8.85	142	51737m	7.308	ng	
45) 1,1'-Biphenyl	9.32	154	15410	2.053	ng	96
48) Acenaphthylene	9.76	152	95411	10.573	ng	100
49) Dimethylphthalate	9.60	163	39165	5.911	ng	# 97
51) Acenaphthene	9.93	154	89156	16.244	ng	99
54) Dibenzofuran	10.10	168	89575	11.645	ng	97
57) Fluorene	10.44	166	117283	20.813	ng	100
70) Phenanthrene	11.42	178	1188920	165.589	ng	99
71) Anthracene	11.46	178	312451	42.893	ng	99
72) Carbazole	11.62	167	110352	16.418	ng	97
74) Fluoranthene	12.62	202	1632876	214.587	ng	97
77) Pyrene	12.85	202	1525852	167.619	ng	99
80) Benzo(a)anthracene	14.03	228	941610	122.443	ng	99
82) Chrysene	14.07	228	785333	105.458	ng	97
85) Indeno(1,2,3-cd)pyrene	17.00	276	331004	54.953	ng	# 88
87) Benzo(b)fluoranthene	15.09	252	947117m	122.544	ng	
88) Benzo(k)fluoranthene	15.12	252	338711m	46.382	ng	
89) Benzo(a)pyrene	15.46	252	634879	92.658	ng	95
90) Dibenzo(a,h)anthracene	17.01	278	86041	15.355	ng	93
91) Benzo(g,h,i)perylene	17.46	276	301468	54.960	ng	# 93

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

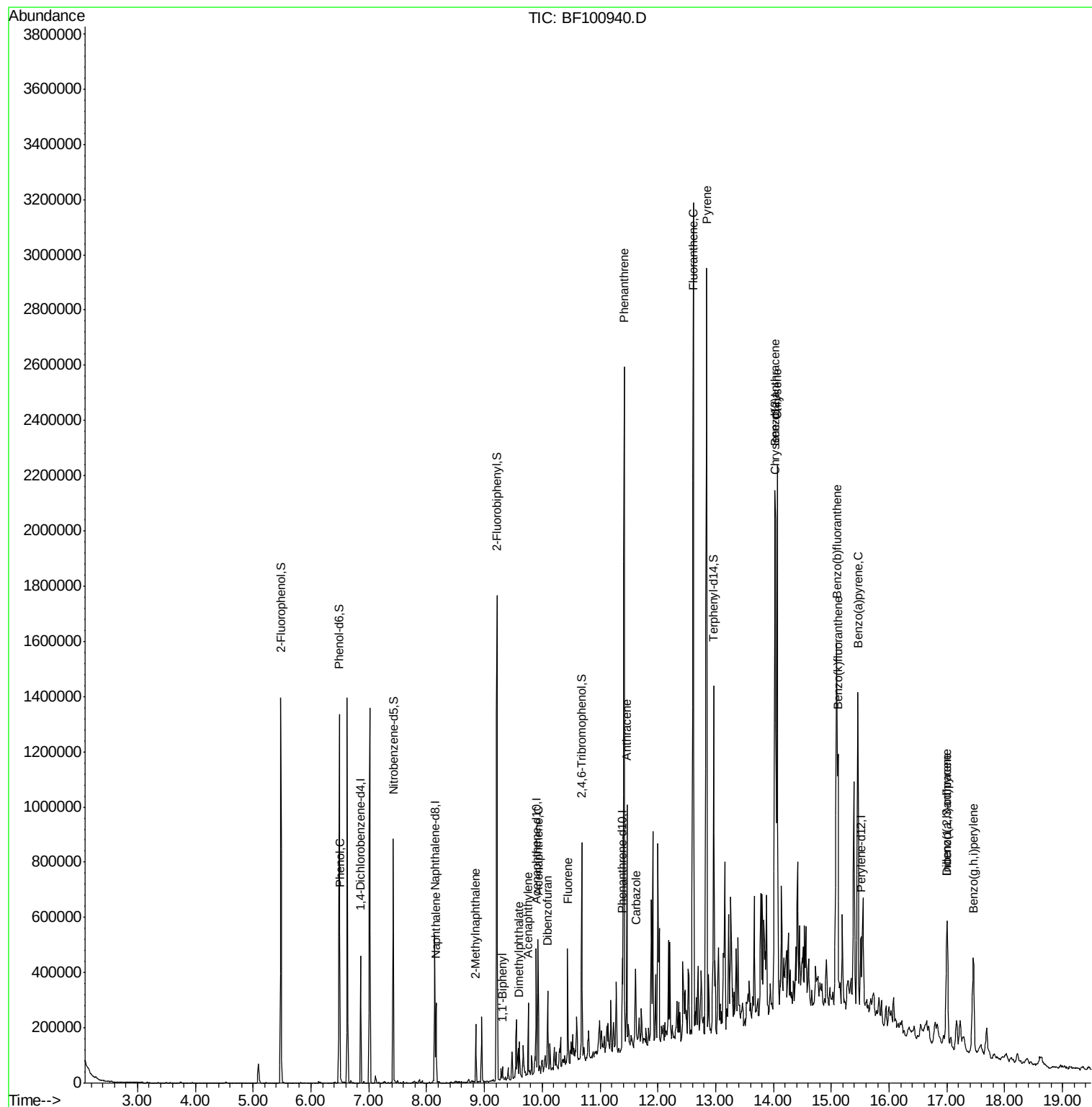
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
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Misc :
ALS Vial : 19 Sample Multiplier: 1

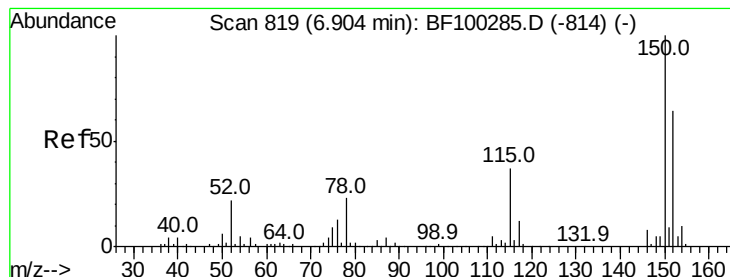
Instrument :
BNA_F
ClientSampleId :
SB-12(10-12)-20171127

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Quant Time: Nov 29 07:22:06 2017
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#1

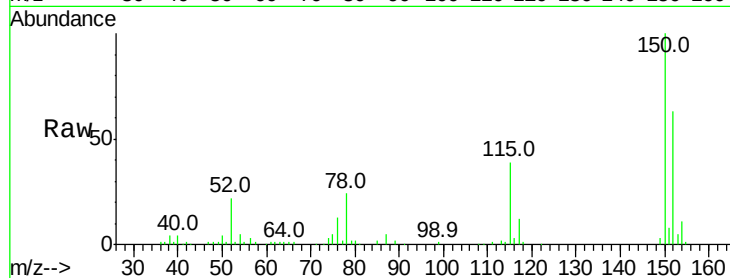
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. 0.00 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Instrument :
BNA_F
ClientSampleId :
SB-12(10-12)-20171127

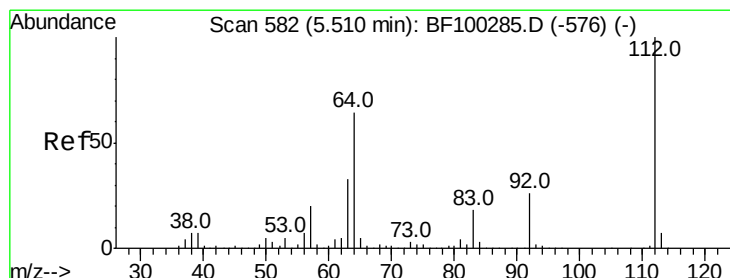
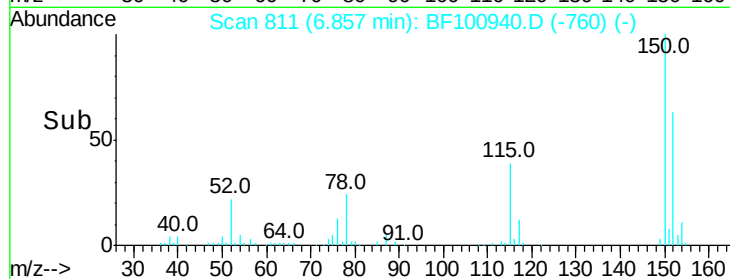
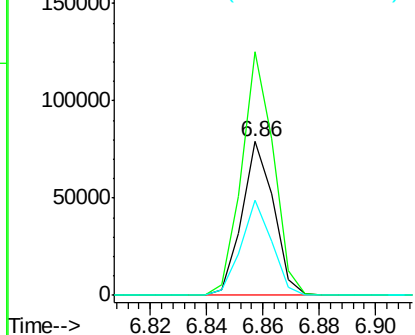
Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	124.6	186.8
115	61.9	50.1	75.1

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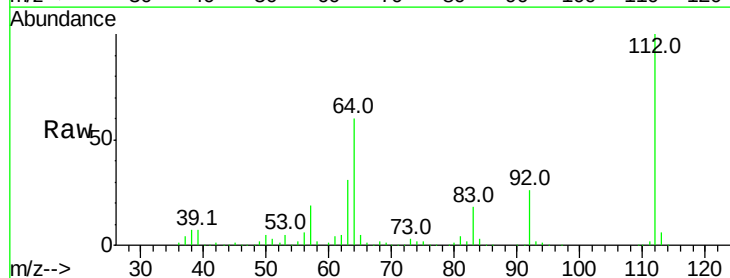
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



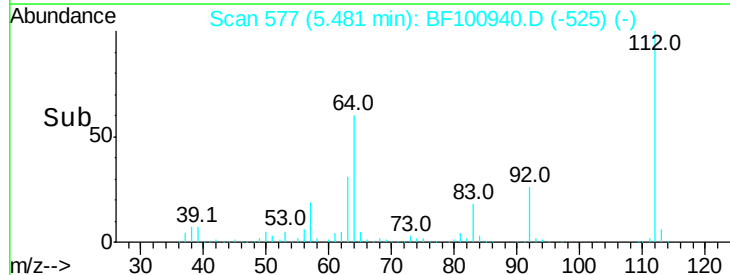
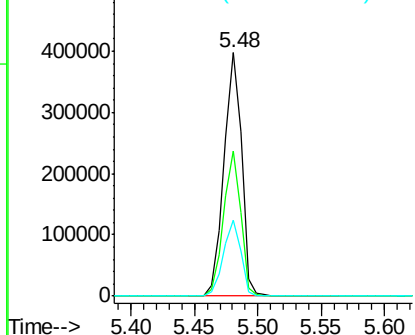
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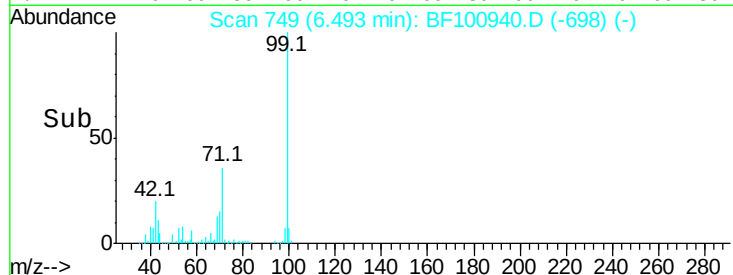
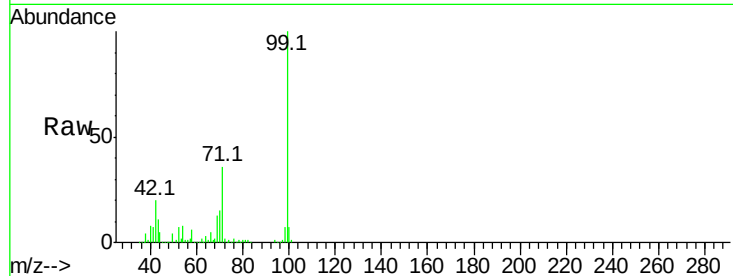
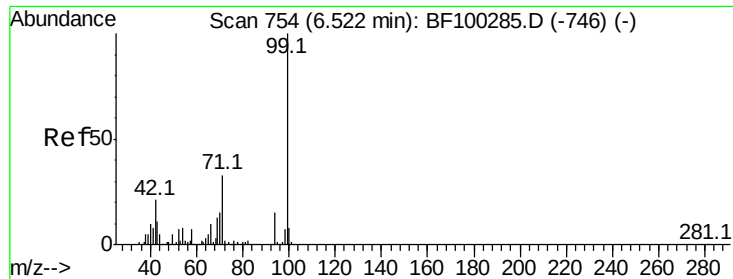
2-Fluorophenol
Concen: 100.463 ng
RT: 5.48 min Scan# 577
Delta R.T. 0.01 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.7	47.9	71.9
63	31.4	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 94.107 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Tot Ion:	99	Resp:	445948
Ion	Ratio	Lower	Upper
99	100		
42	20.4	14.5	21.7
71	35.9	25.4	38.0

Instrument :

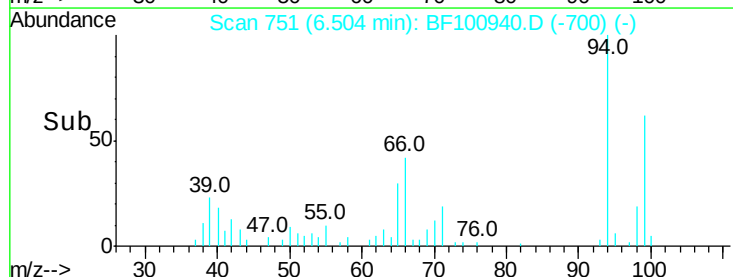
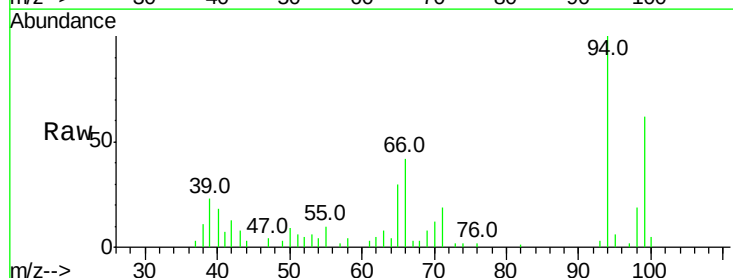
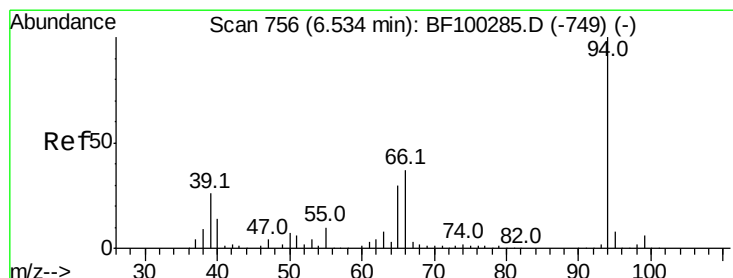
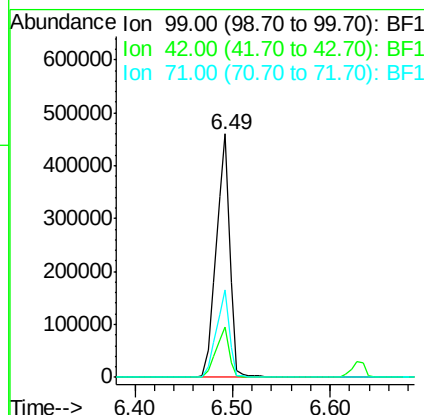
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ClientSampleId :

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#10

Phenol

Concen: 3.541 ng

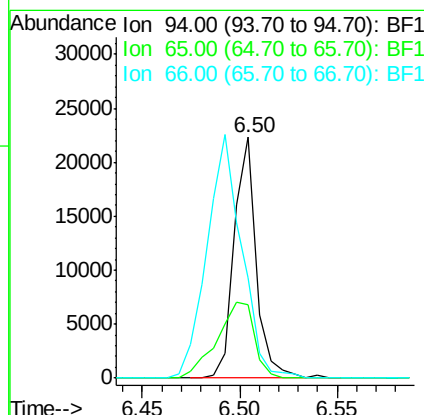
RT: 6.50 min Scan# 751

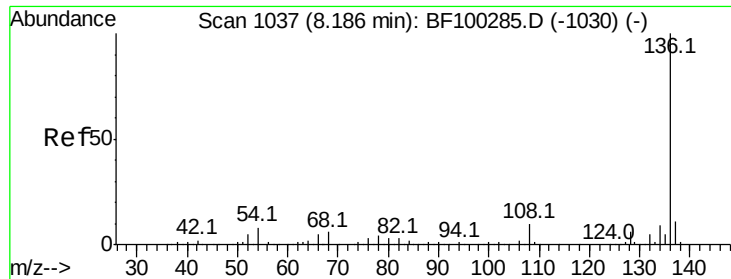
Delta R.T. 0.00 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Tgt Ion:	94	Resp:	17614
Ion	Ratio	Lower	Upper
94	100		
65	30.3	7.9	47.9
66	41.8	16.2	56.2





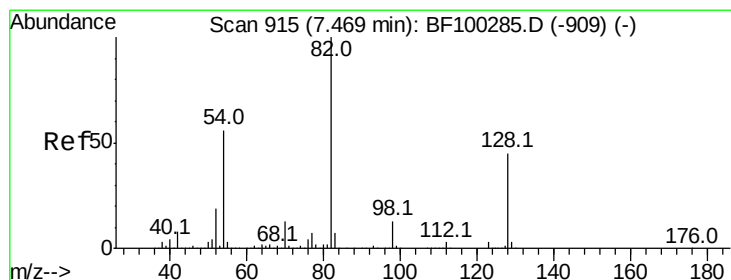
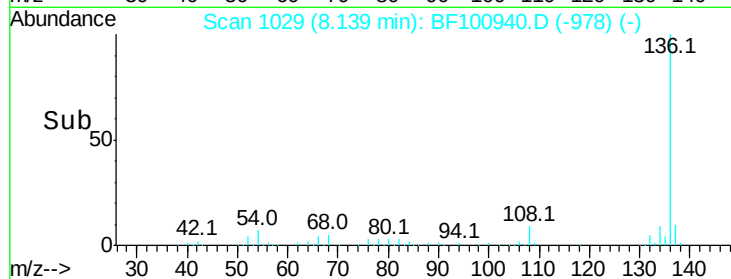
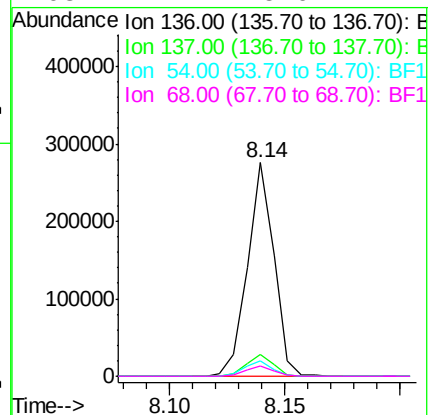
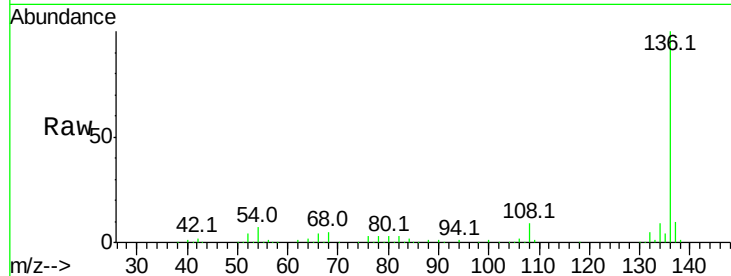
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.14 min Scan# 1029
Delta R.T. 0.00 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Instrument :
BNA_F
ClientSampleId :
SB-12(10-12)-20171127

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.4	8.9	13.3	
54	7.5	6.6	9.8	
68	4.7	5.0	7.4	

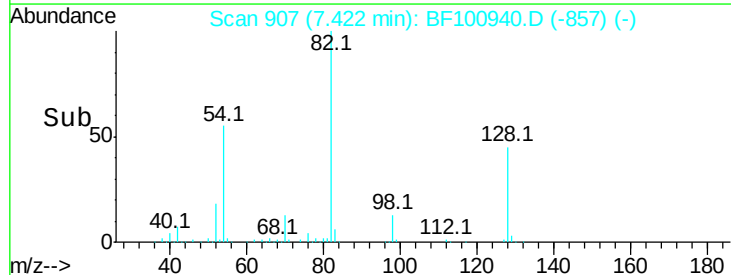
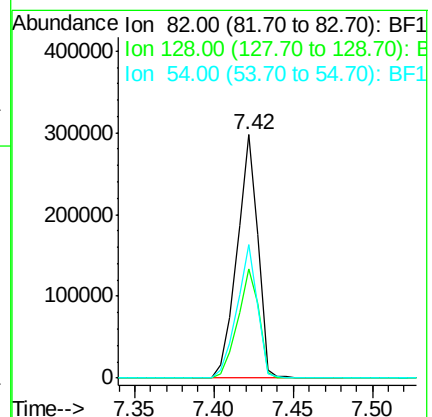
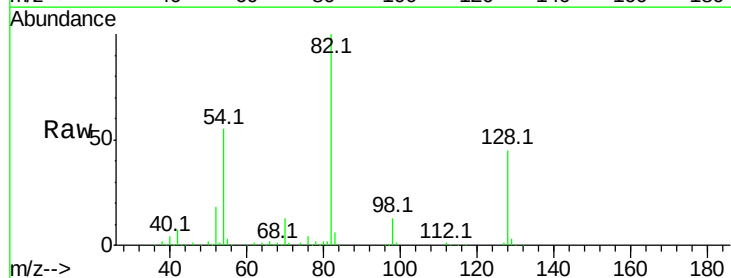
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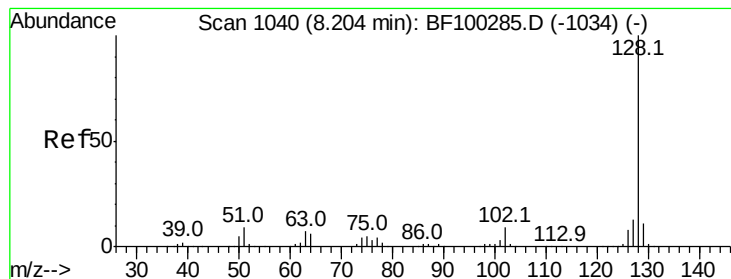
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#23
Nitrobenzene-d5
Concen: 80.944 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.0	36.1	54.1	
54	55.1	41.4	62.2	





#31

Naphthalene

Concen: 11.170 ng

RT: 8.16 min Scan# 1033

Delta R.T. 0.00 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Instrument :

BNA_F

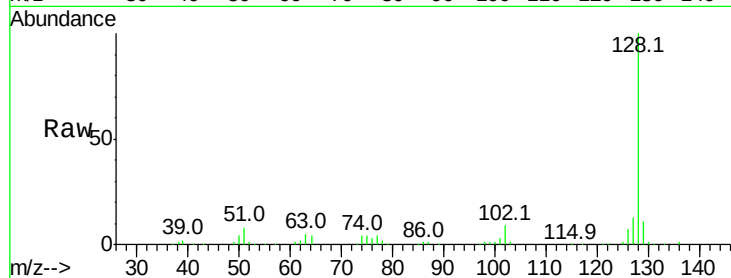
ClientSampleId :

SB-12(10-12)-20171127

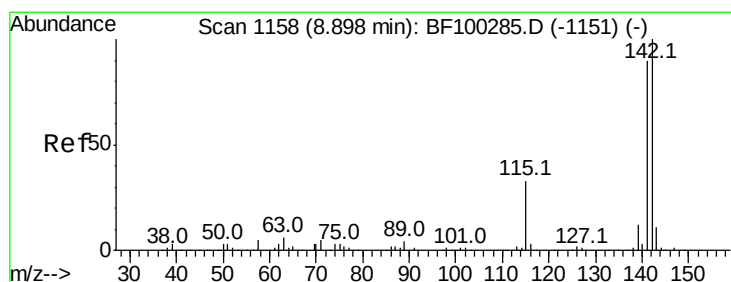
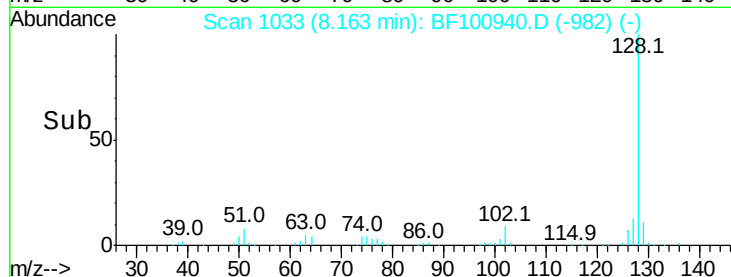
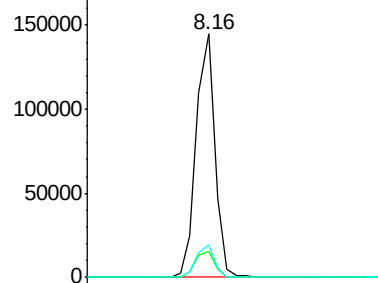
Tot Ion:	128	Resp:	119113
Ion Ratio	Lower	Upper	
128	100		
129	10.9	8.8	13.2
127	13.4	10.9	16.3

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 7.308 ng m

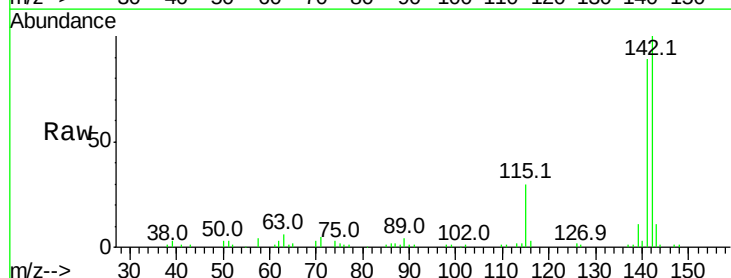
RT: 8.85 min Scan# 1150

Delta R.T. -0.01 min

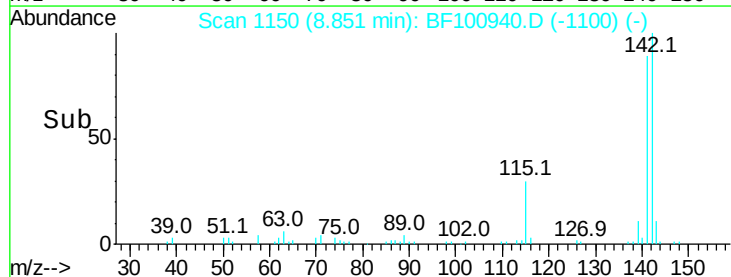
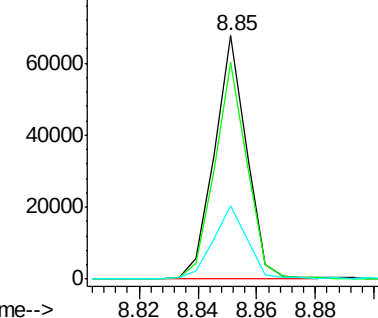
Lab File: BF100940.D

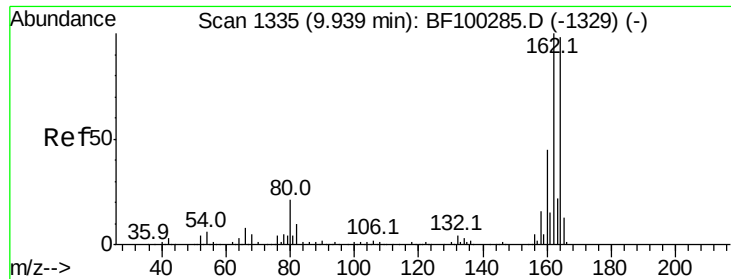
Acq: 28 Nov 2017 18:06

Tgt Ion:	142	Resp:	51737
Ion Ratio	Lower	Upper	
142	100		
141	89.1	70.8	106.2
115	30.3	26.1	39.1



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





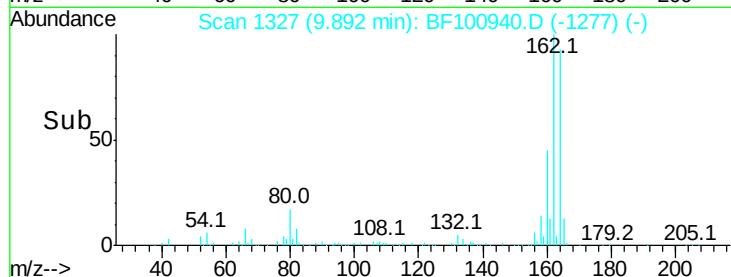
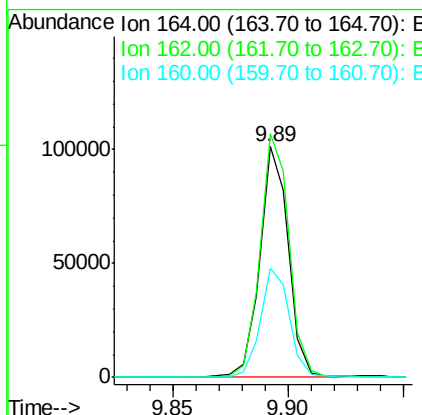
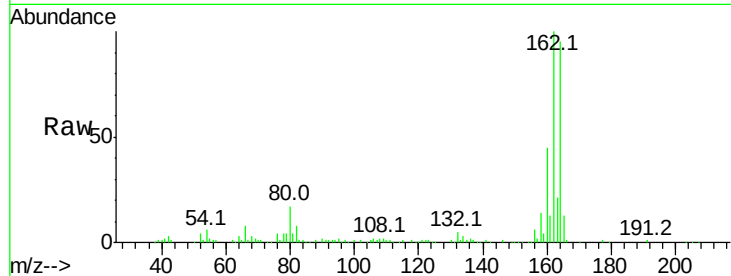
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: BF100940.D
 Acq: 28 Nov 2017 18:06

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(10-12)-20171127

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.7	86.1	129.1
160	47.3	38.3	57.5

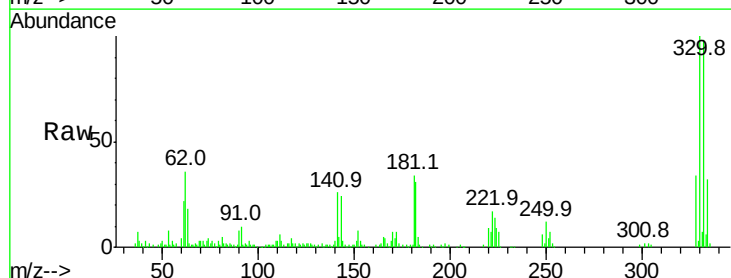
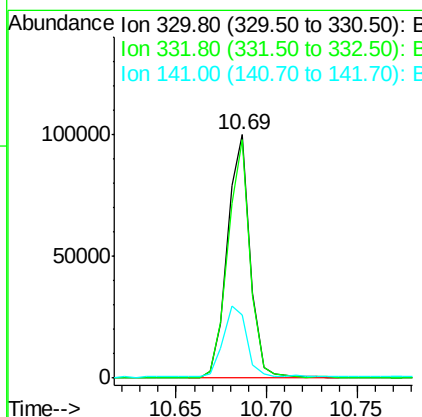
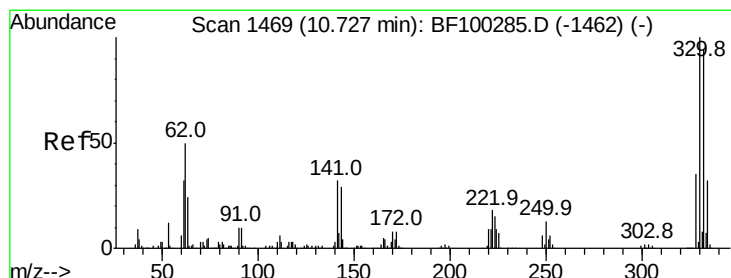
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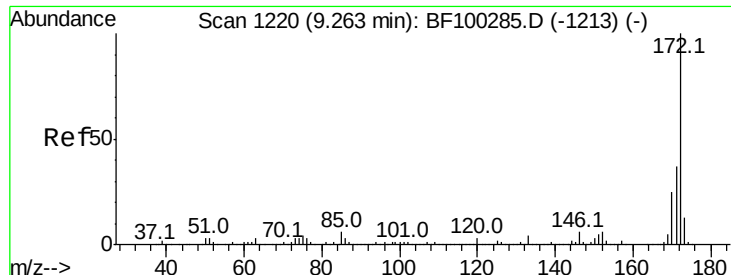
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#41
 2,4,6-Tribromophenol
 Concen: 99.169 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. 0.00 min
 Lab File: BF100940.D
 Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.0	115.6
141	29.6	29.9	44.9#





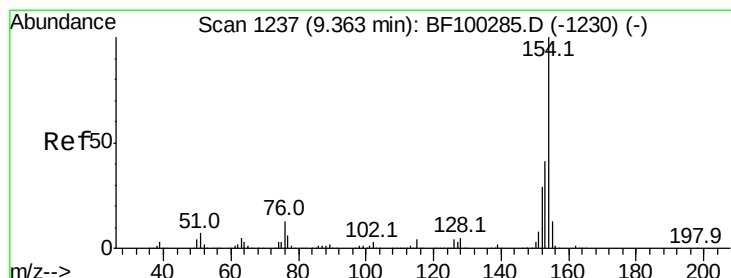
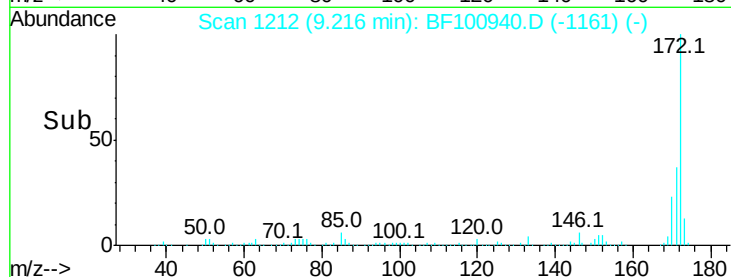
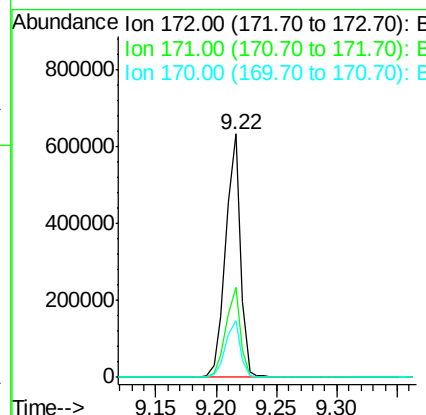
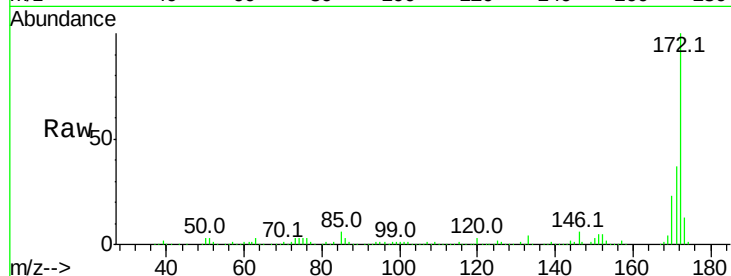
#44
2-Fluorobiphenyl
Concen: 93.418 ng
RT: 9.22 min Scan# 1212
Delta R.T. 0.00 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.8	29.7	44.5	
170	23.5	19.6	29.4	

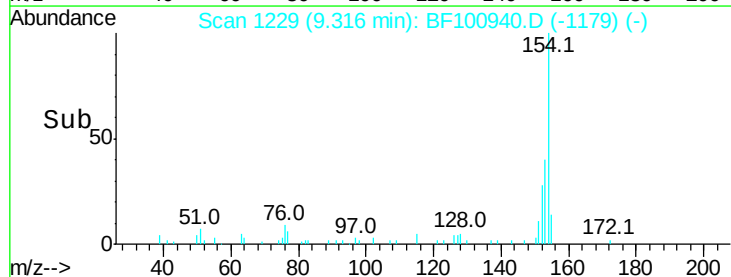
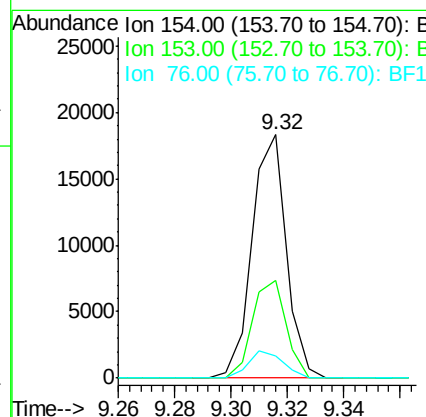
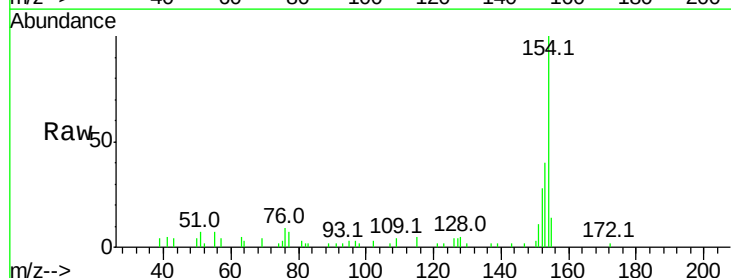
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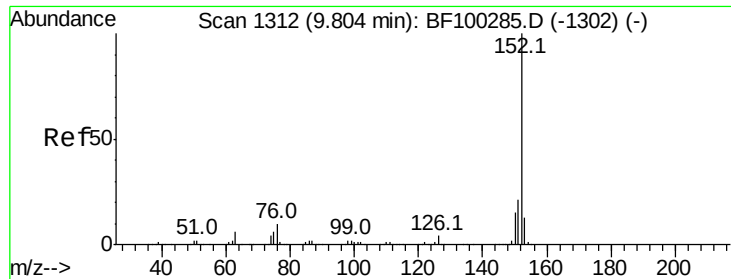
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#45
1,1'-Biphenyl
Concen: 2.053 ng
RT: 9.32 min Scan# 1229
Delta R.T. -0.01 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.2	21.3	61.3	
76	8.9	0.0	34.0	





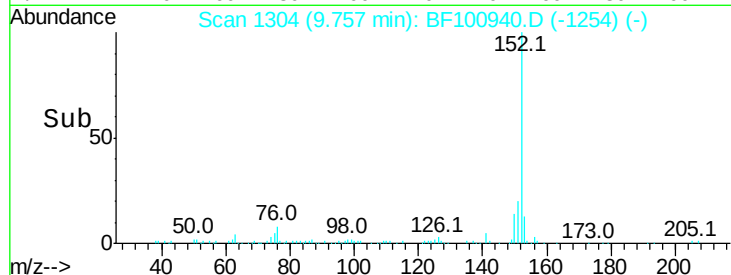
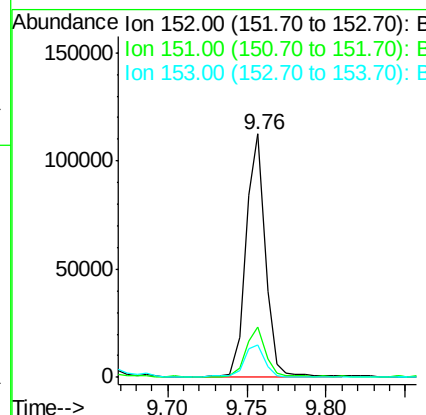
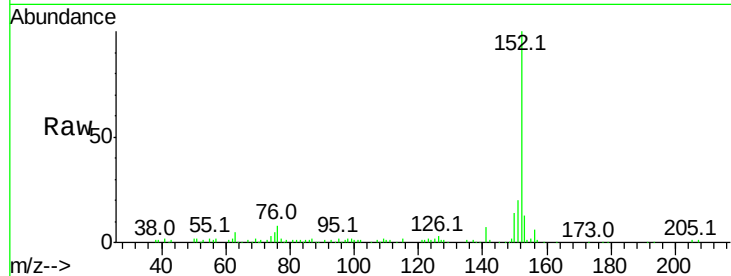
#48
Acenaphthylene
Concen: 10.573 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Instrument :
BNA_F
ClientSampleId :
SB-12(10-12)-20171127

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.2	10.7	16.1

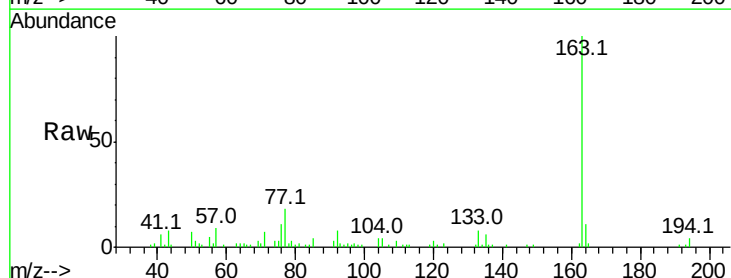
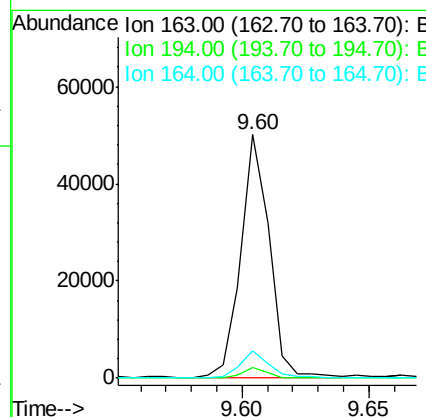
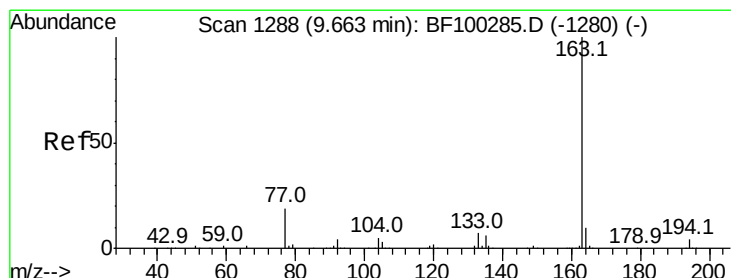
Manual Integrations
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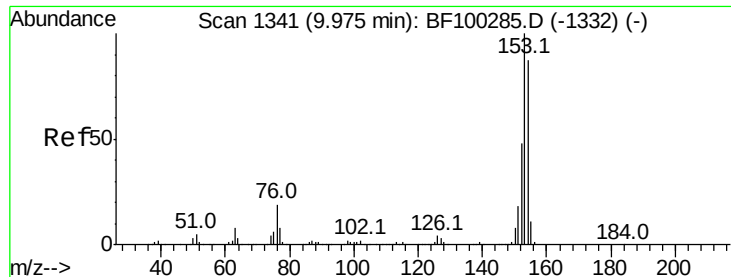
Sohil
11/29/2017 4:28:41 PM



#49
Dimethylphthalate
Concen: 5.911 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.02 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.3	2.7	4.1#
164	11.4	8.2	12.2





#51

Acenaphthene

Concen: 16.244 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Instrument :

BNA_F

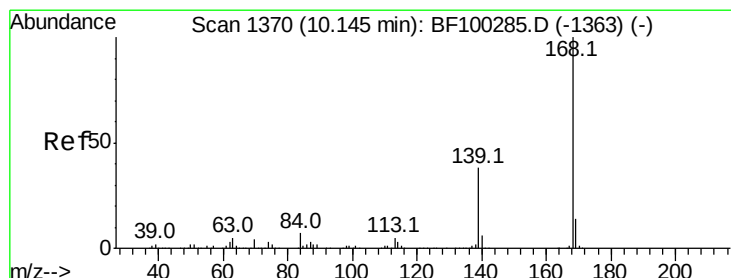
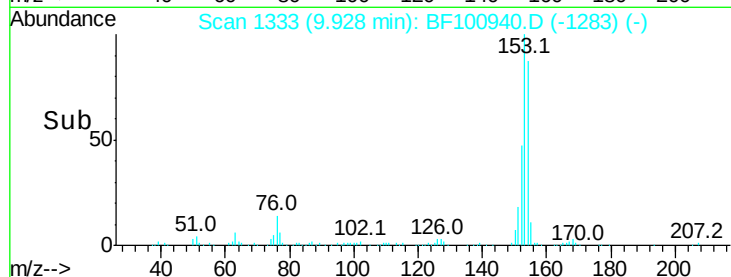
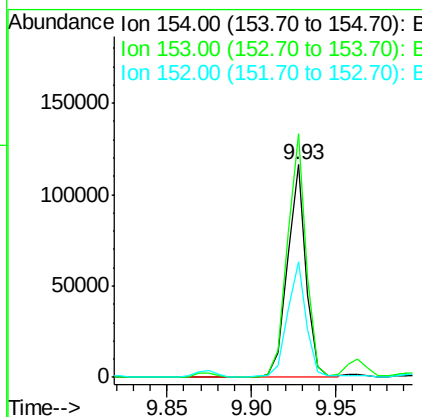
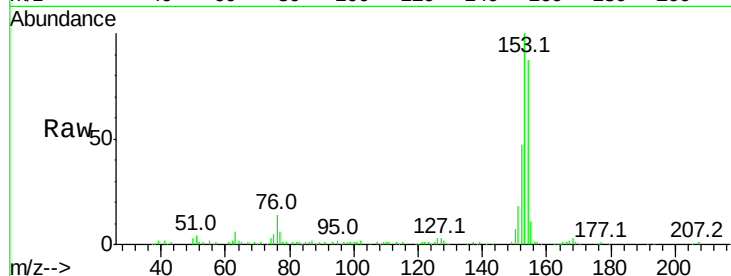
ClientSampleId :

SB-12(10-12)-20171127

Tot Ion:	154	Resp:	89156
Ion Ratio	Lower	Upper	
154	100		
153	114.4	91.2	136.8
152	54.1	43.8	65.8

Manual Integrations
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Sohil
11/29/2017 4:28:41 PM



#54

Dibenzofuran

Concen: 11.645 ng

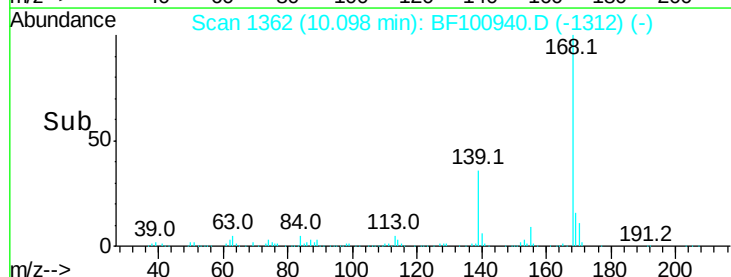
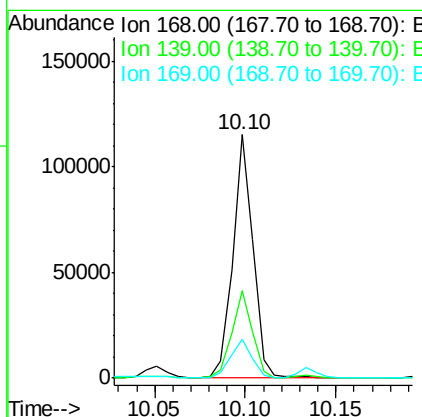
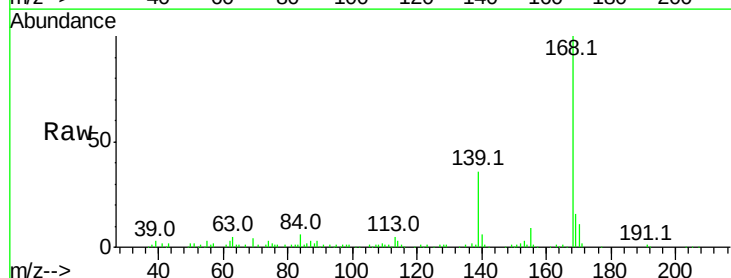
RT: 10.10 min Scan# 1362

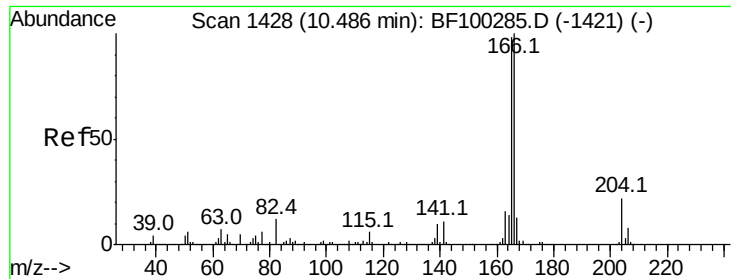
Delta R.T. -0.01 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Tgt Ion:	168	Resp:	89575
Ion Ratio	Lower	Upper	
168	100		
139	36.0	30.1	45.1
169	15.9	10.9	16.3





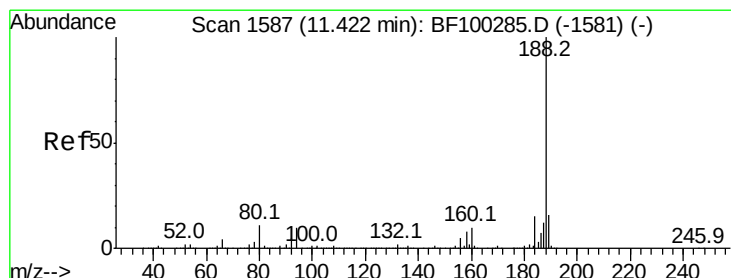
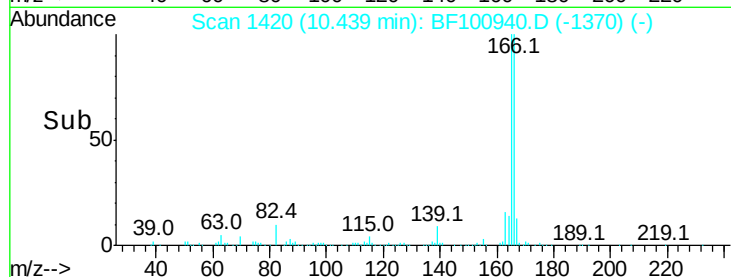
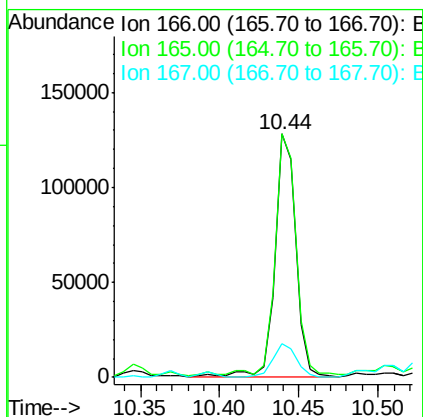
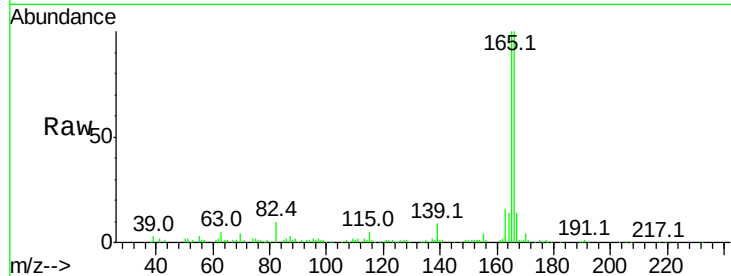
#57
 Fluorene
 Concen: 20.813 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF100940.D
 Acq: 28 Nov 2017 18:06

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(10-12)-20171127

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.8
167	14.0	10.6	16.0

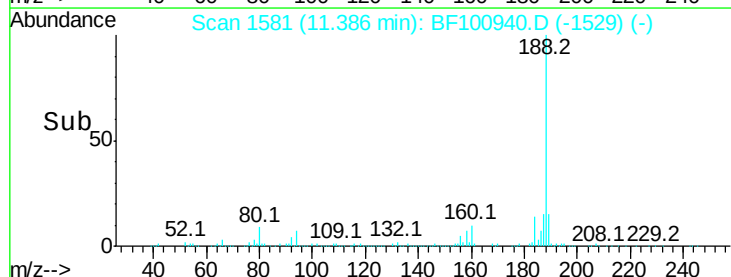
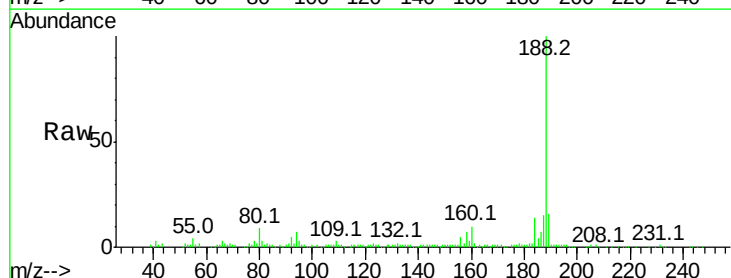
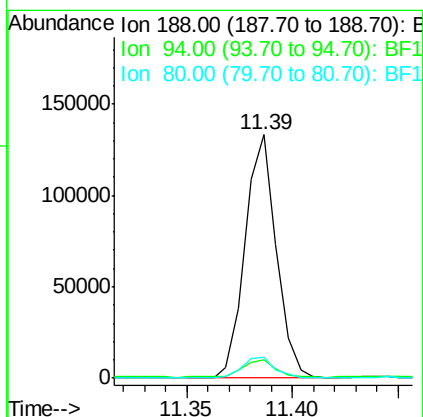
Manual Integrations
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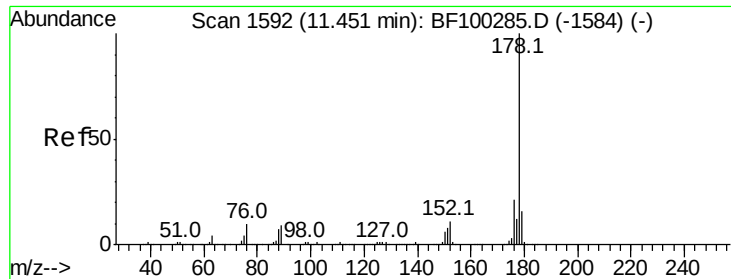
Sohil
 11/29/2017 4:28:41 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. 0.01 min
 Lab File: BF100940.D
 Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.5	8.5	12.7#
80	8.6	9.2	13.8#





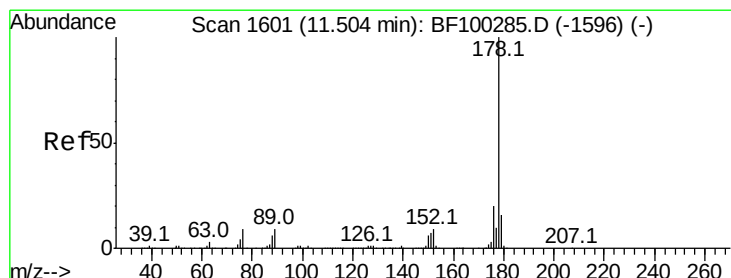
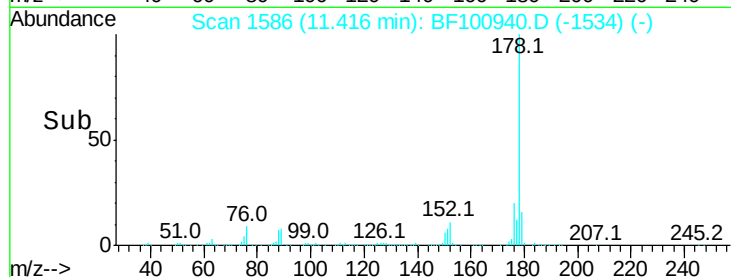
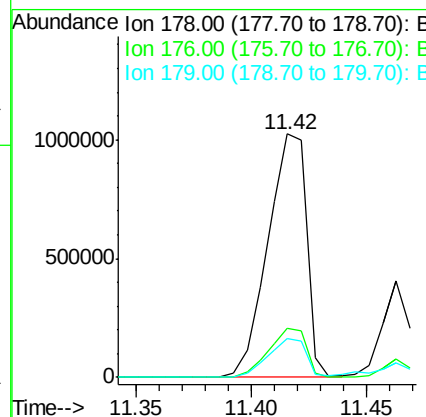
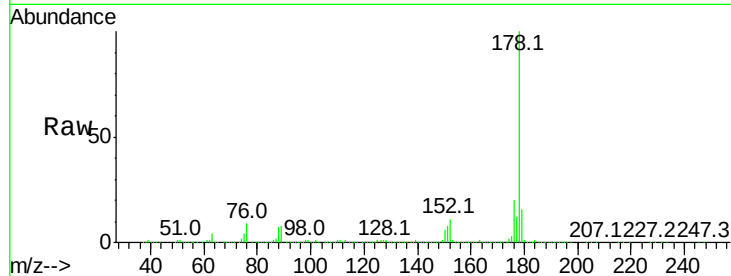
#70
Phenanthrene
Concen: 165.589 ng
RT: 11.42 min Scan# 1586
Delta R.T. 0.01 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Instrument :
BNA_F
ClientSampleId :
SB-12(10-12)-20171127

Tot Ion:178 Resp: 1188920
Ion Ratio Lower Upper
178 100
176 20.0 15.8 23.8
179 16.1 13.0 19.6

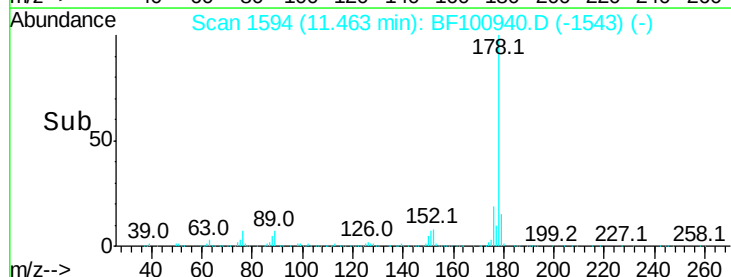
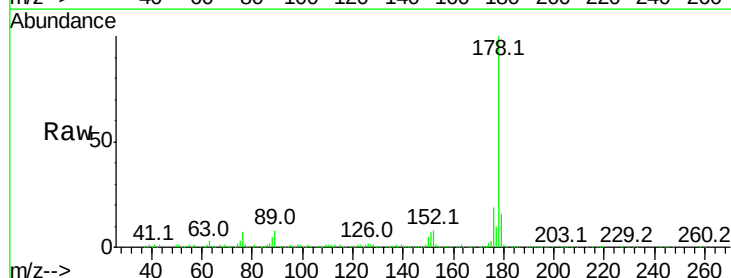
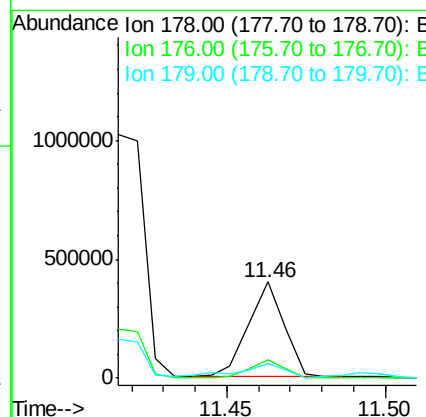
Manual Integrations
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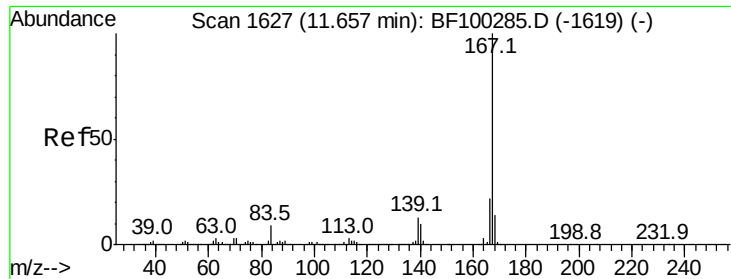
Sohil
11/29/2017 4:28:41 PM



#71
Anthracene
Concen: 42.893 ng
RT: 11.46 min Scan# 1594
Delta R.T. 0.00 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Tgt Ion:178 Resp: 312451
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.2
179 15.7 12.6 19.0





#72

Carbazole

Concen: 16.418 ng

RT: 11.62 min Scan# 1620

Delta R.T. 0.00 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Instrument :

BNA_F

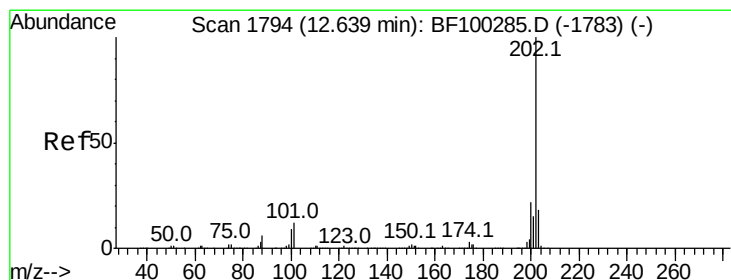
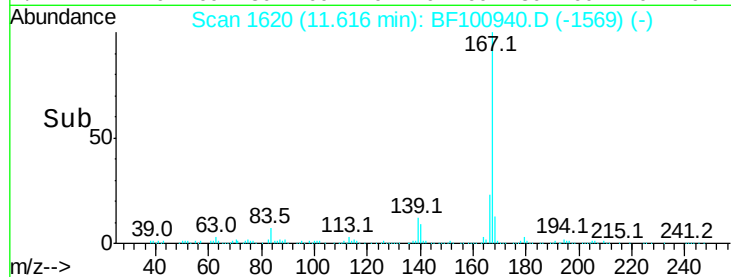
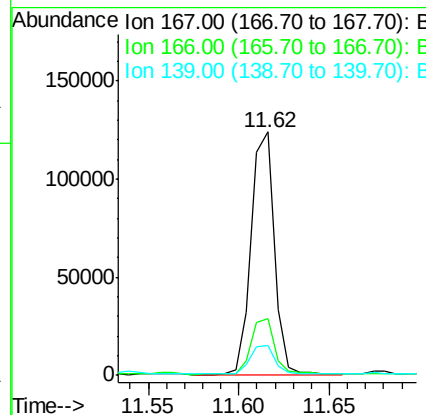
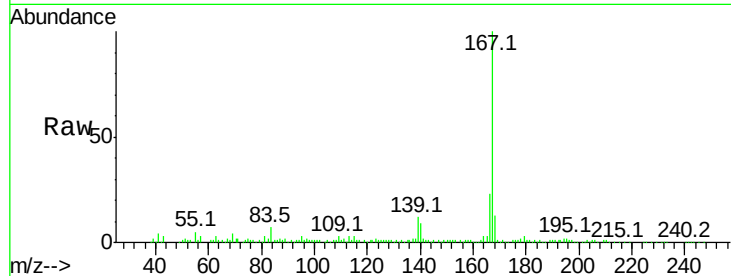
ClientSampleId :

SB-12(10-12)-20171127

Tot Ion:	167	Resp:	110352
Ion Ratio	Lower	Upper	
167	100		
166	23.2	17.6	26.4
139	12.2	10.9	16.3

Manual Integrations
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Sohil
11/29/2017 4:28:41 PM



#74

Fluoranthene

Concen: 214.587 ng

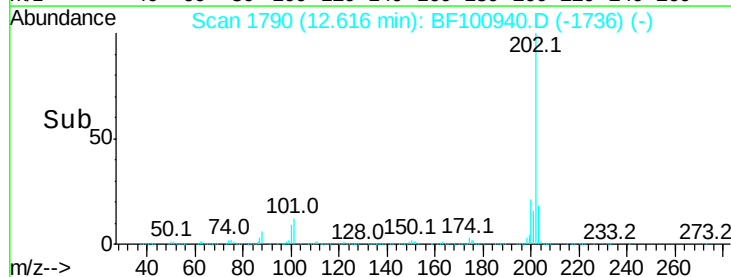
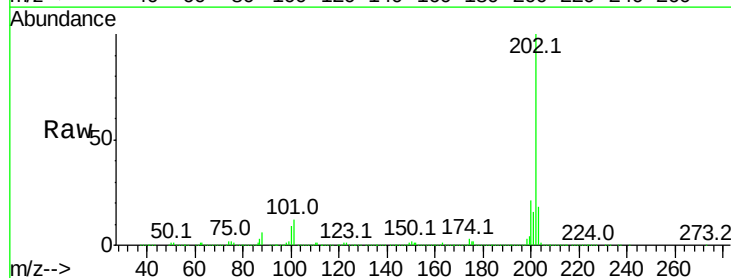
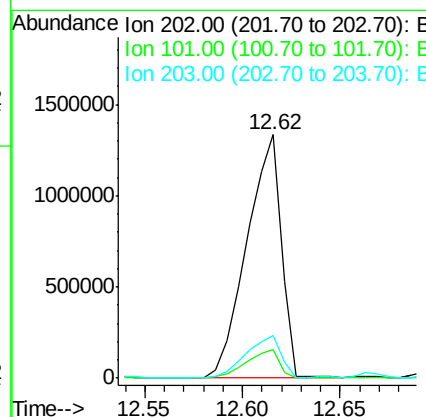
RT: 12.62 min Scan# 1790

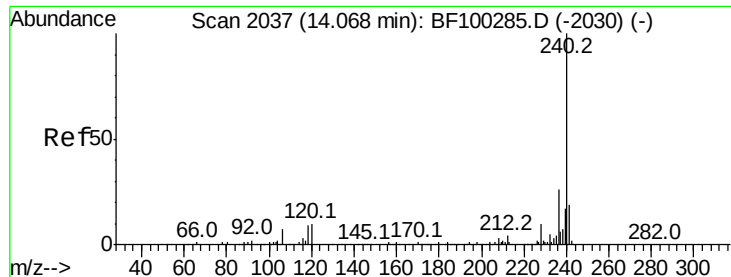
Delta R.T. 0.02 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Tgt Ion:	202	Resp:	1632876
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	34.1
203	17.6	0.0	38.1





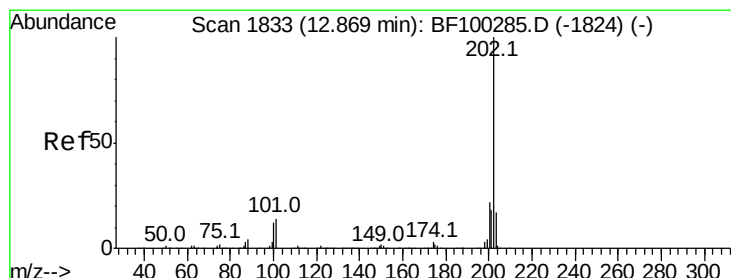
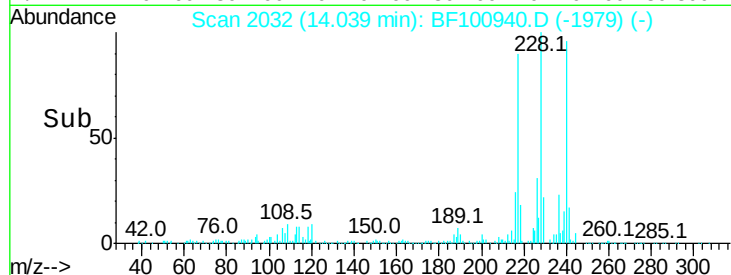
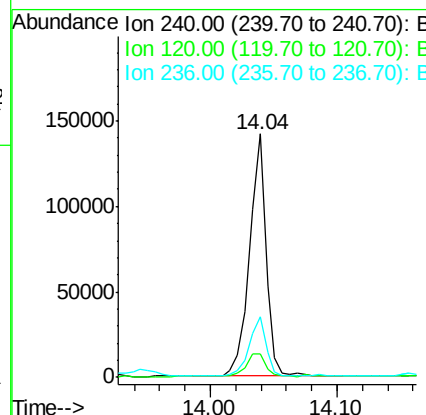
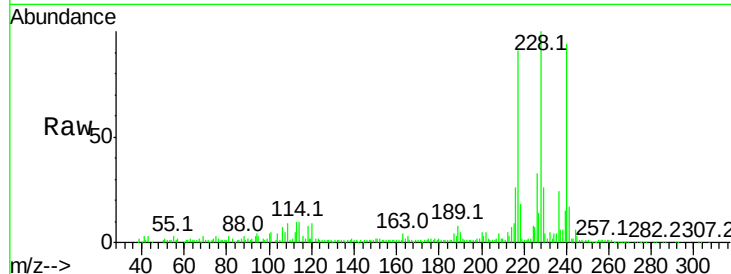
#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.04 min Scan# 2032
 Delta R.T. 0.01 min
 Lab File: BF100940.D
 Acq: 28 Nov 2017 18:06

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(10-12)-20171127

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.7	9.5	14.3
236	25.1	20.7	31.1

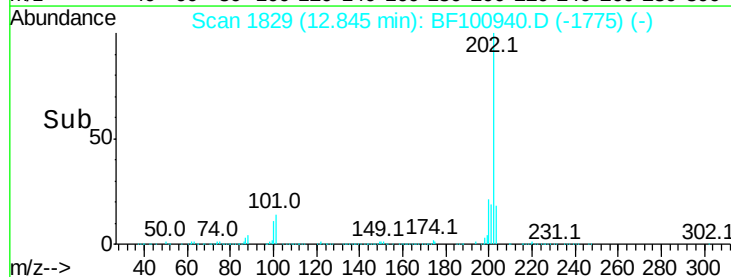
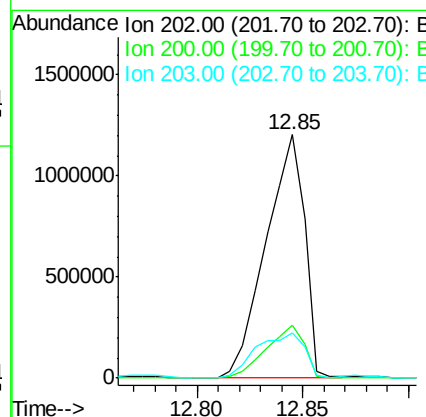
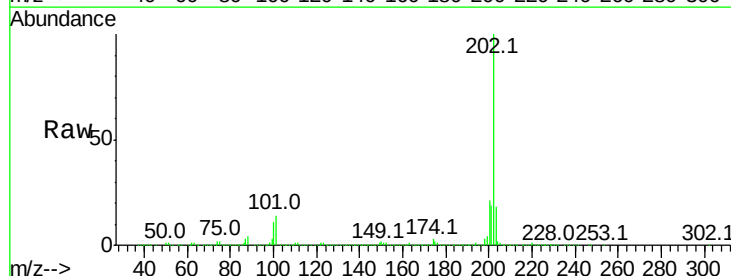
Manual Integrations
 APPROVED

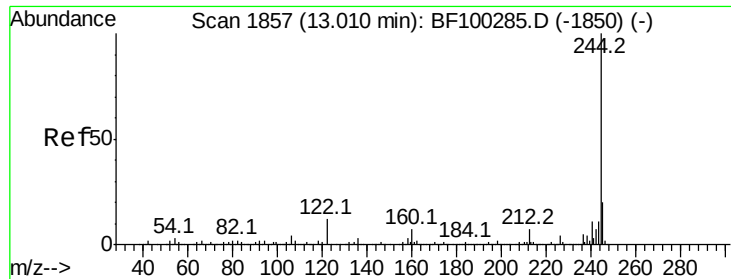
Sohil
 11/29/2017 4:28:41 PM



#77
 Pyrene
 Concen: 167.619 ng
 RT: 12.85 min Scan# 1829
 Delta R.T. 0.02 min
 Lab File: BF100940.D
 Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.2
203	18.4	14.3	21.5





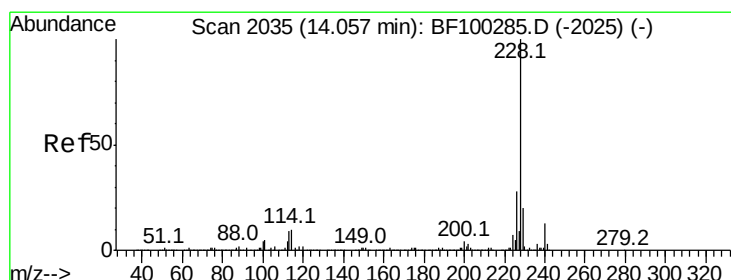
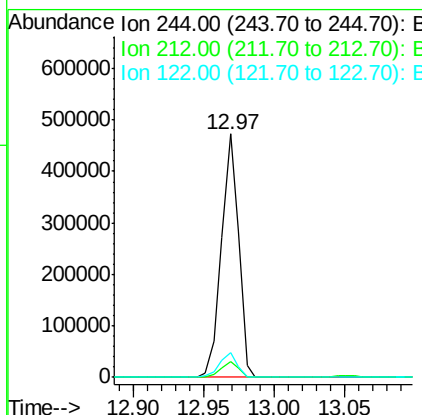
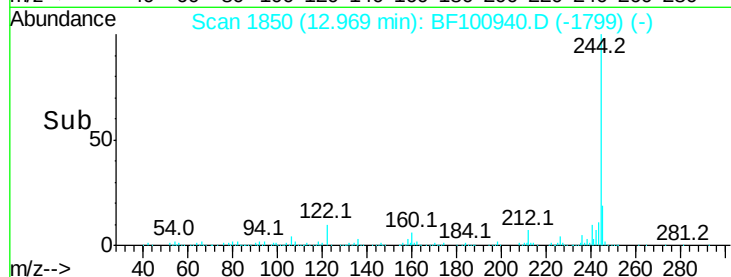
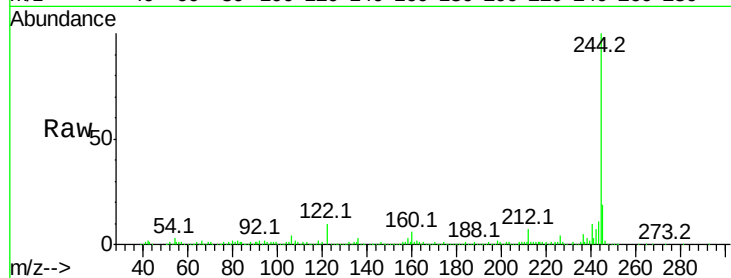
#78
 Terphenyl-d14
 Concen: 72.198 ng
 RT: 12.97 min Scan# 1850
 Delta R.T. 0.00 min
 Lab File: BF100940.D
 Acq: 28 Nov 2017 18:06

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(10-12)-20171127

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	10.4	11.0	16.4

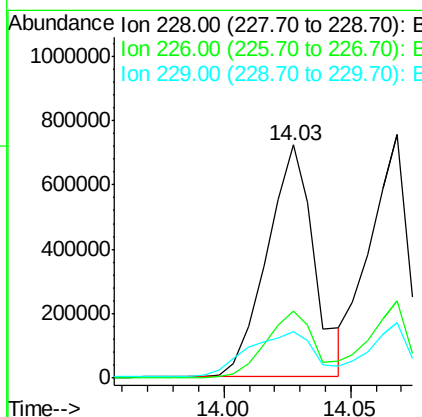
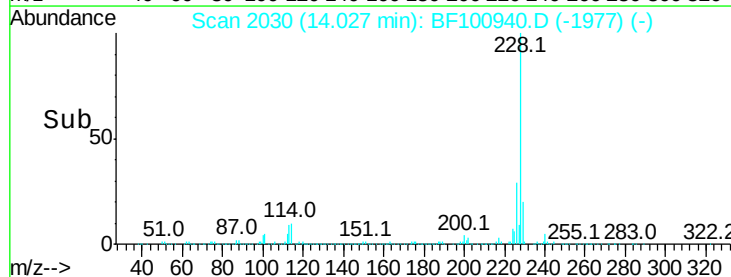
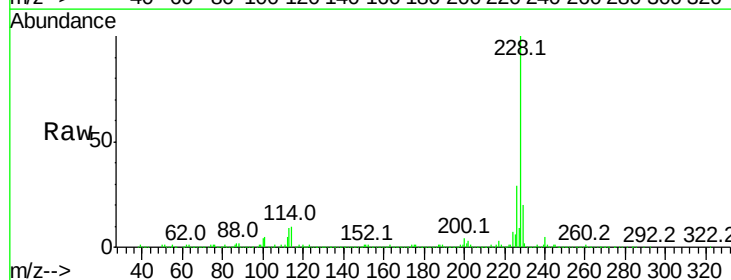
Manual Integrations
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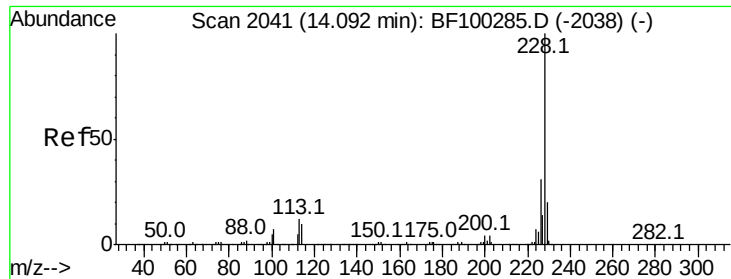
Sohil
 11/29/2017 4:28:41 PM



#80
 Benzo(a)anthracene
 Concen: 122.443 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. 0.01 min
 Lab File: BF100940.D
 Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	33.8
229	20.1	15.8	23.6





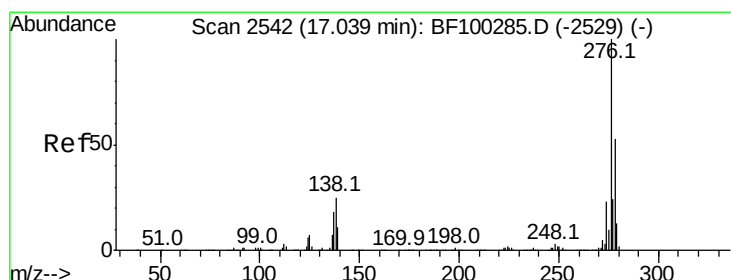
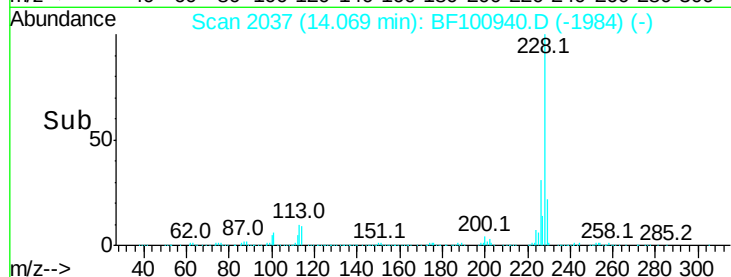
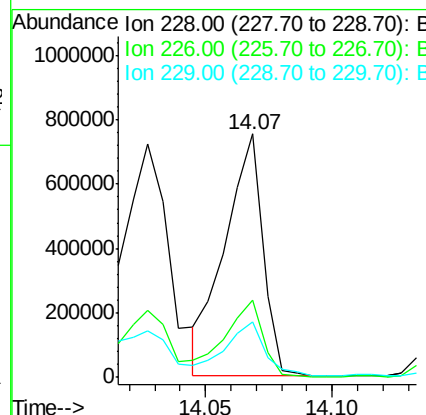
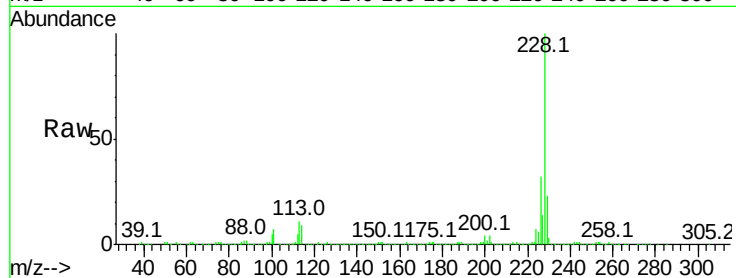
#82
Chrysene
Concen: 105.458 ng
RT: 14.07 min Scan# 2037
Delta R.T. 0.01 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Instrument :
BNA_F
ClientSampleId :
SB-12(10-12)-20171127

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.0	37.6
229	23.0	16.2	24.4

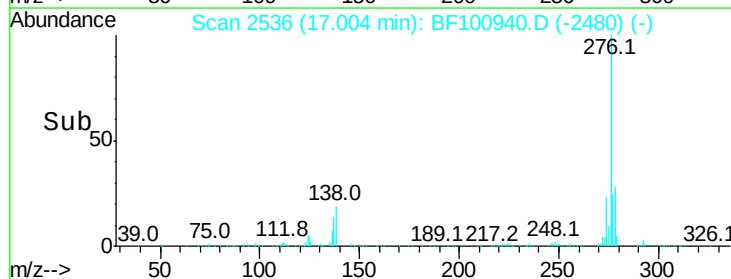
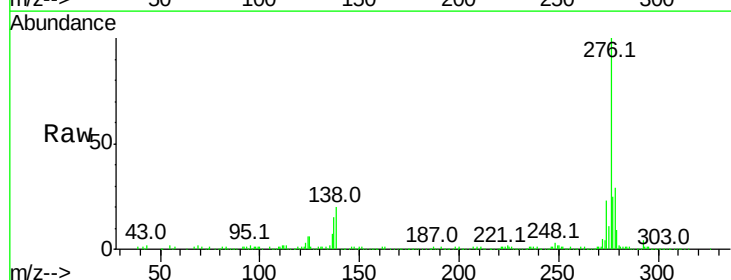
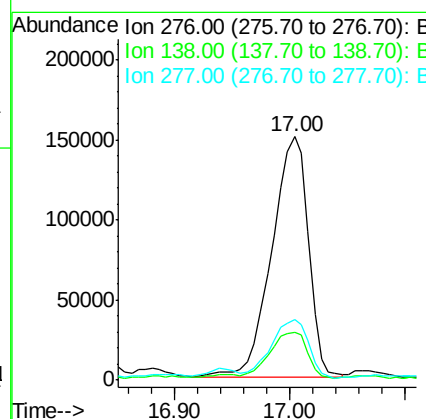
Manual Integrations
APPROVED

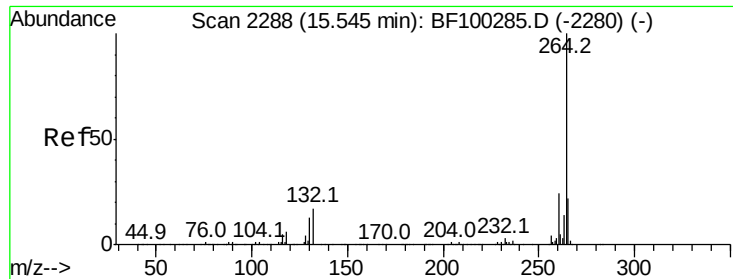
Sohil
11/29/2017 4:28:41 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 54.953 ng
RT: 17.00 min Scan# 2536
Delta R.T. 0.03 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.5	25.0	37.6#
277	24.5	20.1	30.1





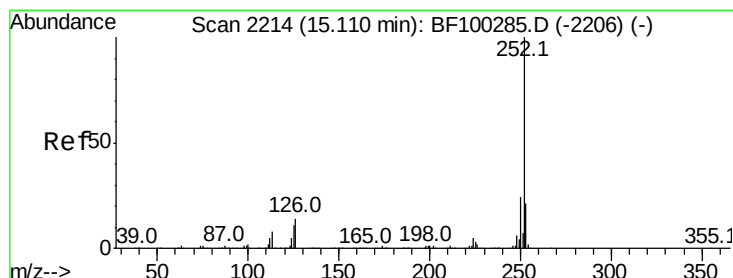
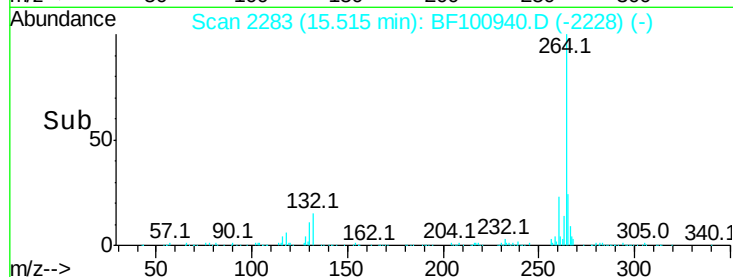
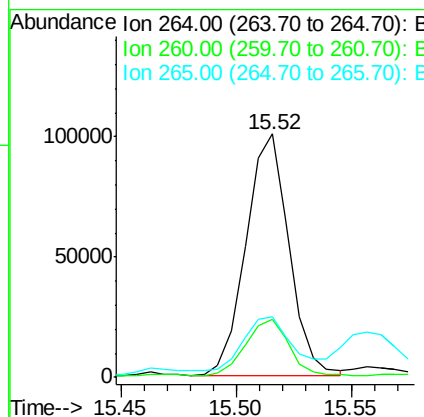
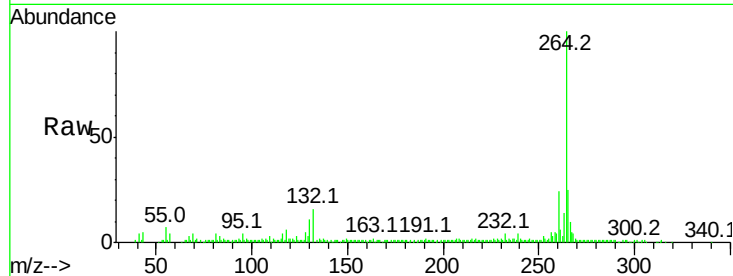
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2283
Delta R.T. 0.02 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Instrument :
BNA_F
ClientSampleId :
SB-12(10-12)-20171127

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	24.8	17.5	26.3

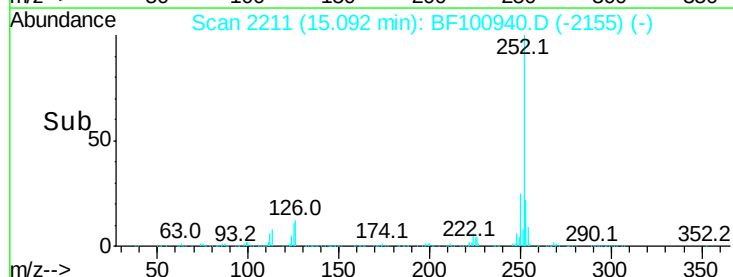
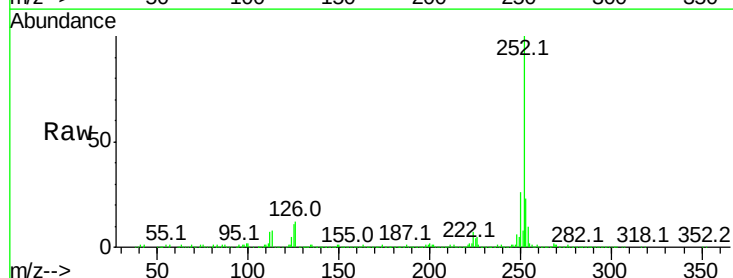
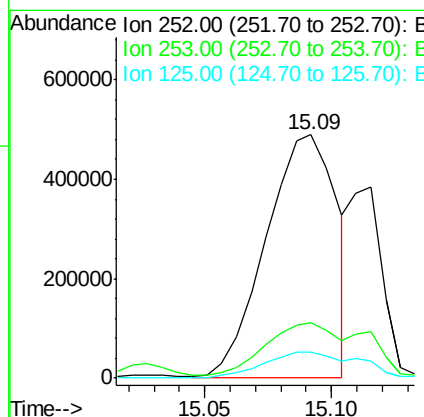
Manual Integrations
APPROVED

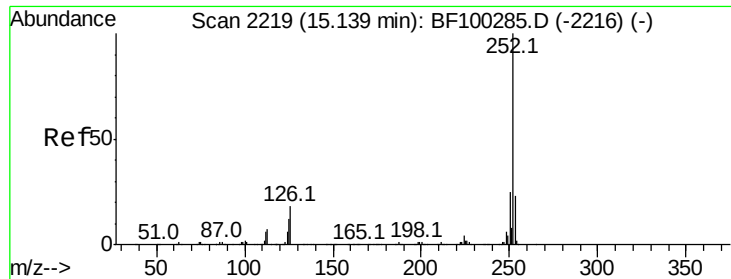
Sohil
11/29/2017 4:28:41 PM



#87
Benzo(b)fluoranthene
Concen: 122.544 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.03 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	10.9	9.0	13.6





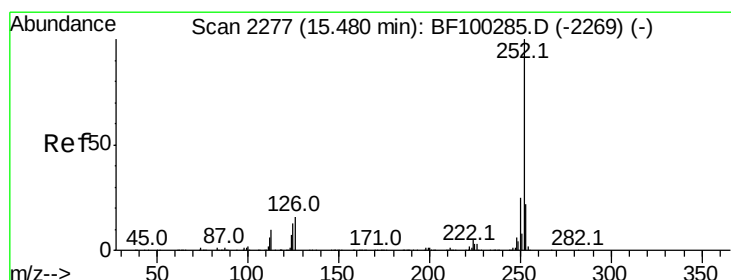
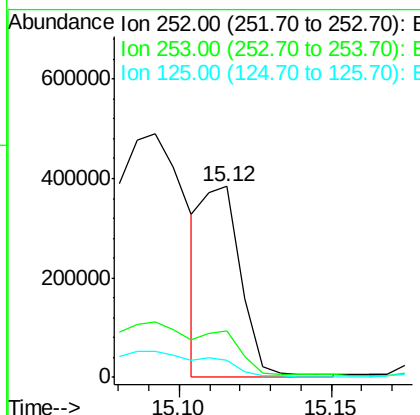
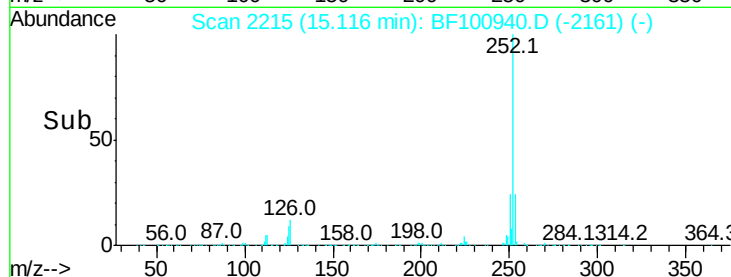
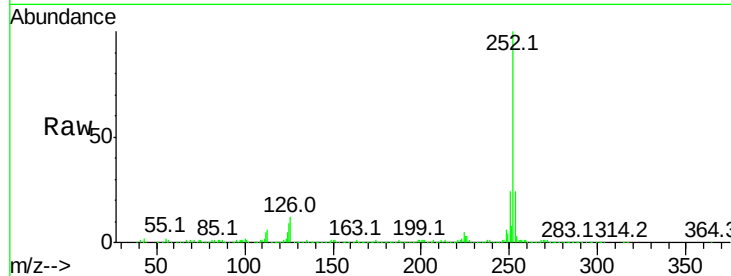
#88
Benzo(k)fluoranthene
Concen: 46.382 ng m
RT: 15.12 min Scan# 2215
Delta R.T. 0.02 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Instrument :
BNA_F
ClientSampleId :
SB-12(10-12)-20171127

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.9	26.9
125	9.2	10.2	15.2#

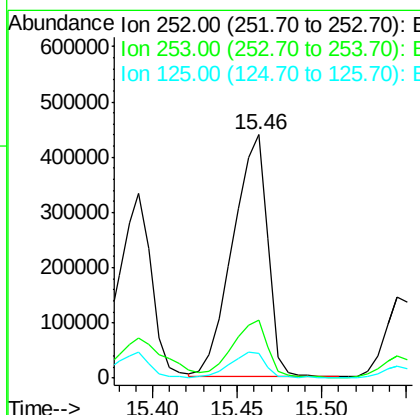
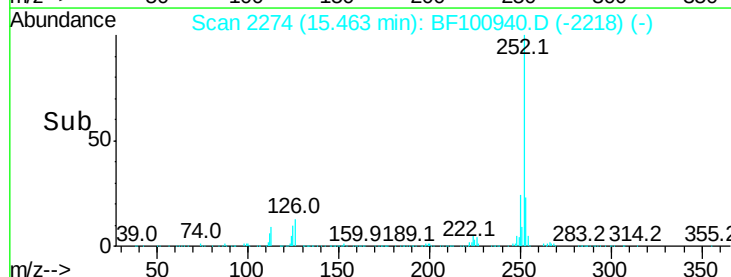
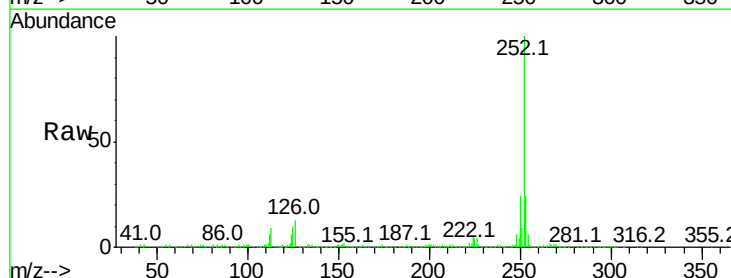
Manual Integrations
APPROVED

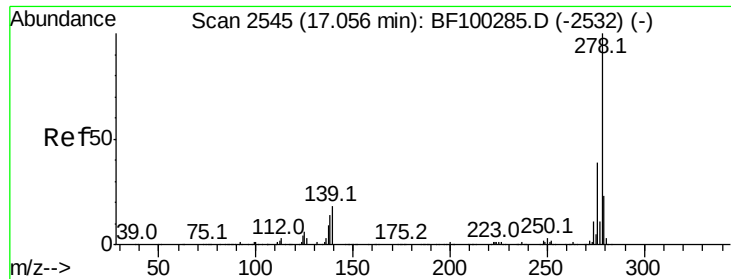
Sohil
11/29/2017 4:28:41 PM



#89
Benzo(a)pyrene
Concen: 92.658 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.03 min
Lab File: BF100940.D
Acq: 28 Nov 2017 18:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	10.3	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 15.355 ng

RT: 17.01 min Scan# 2537

Delta R.T. 0.02 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Instrument :

BNA_F

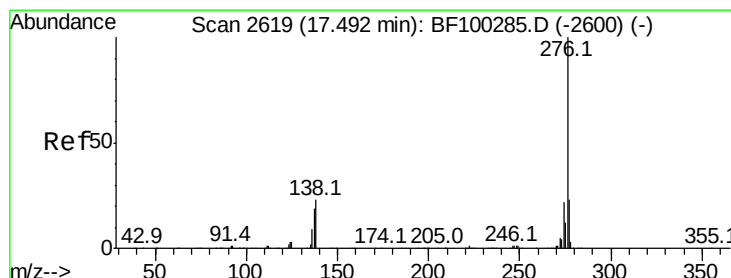
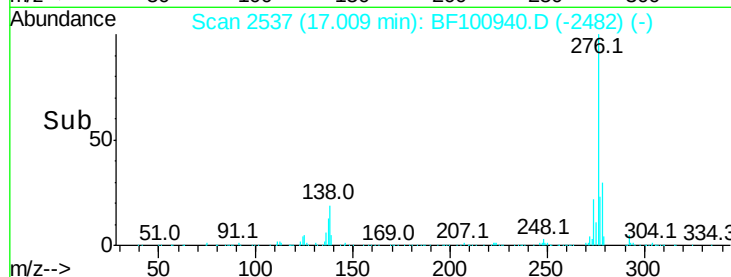
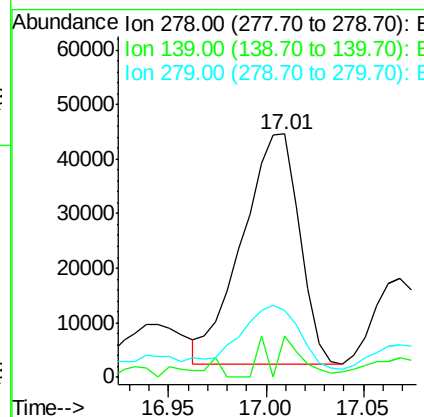
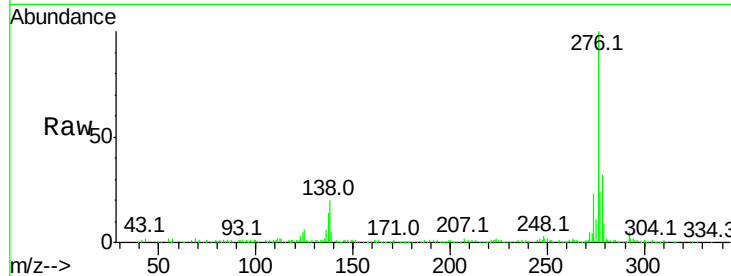
ClientSampleId :

SB-12(10-12)-20171127

Tot Ion:	278	Resp:	86041
Ion Ratio	Lower	Upper	
278	100		
139	16.9	15.9	23.9
279	27.6	19.0	28.4

Manual Integrations
APPROVED

Sohil
11/29/2017 4:28:41 PM



#91

Benzo(g,h,i)perylene

Concen: 54.960 ng

RT: 17.46 min Scan# 2613

Delta R.T. 0.04 min

Lab File: BF100940.D

Acq: 28 Nov 2017 18:06

Tgt Ion:	276	Resp:	301468
Ion Ratio	Lower	Upper	
276	100		
277	23.7	17.9	26.9
138	21.7	21.8	32.8#

