

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\
 Data File : BF106634.D
 Acq On : 20 Jun 2018 21:55
 Operator : JU/SJ
 Sample : J3249-03 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-B

Manual Integrations
 APPROVED

Sohil
 6/21/2018 11:28:10 AM

Quant Time: Jun 21 08:03:33 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 19 14:32:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	99004	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	390467	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	192845	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	332603	20.00	ng	0.00
75) Chrysene-d12	14.15	240	248136	20.00	ng	0.00
86) Perylene-d12	15.68	264	219874	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	130144	22.26	ng	0.00
7) Phenol-d6	6.61	99	165422	22.66	ng	0.00
23) Nitrobenzene-d5	7.52	82	102806	14.63	ng	-0.01
41) 2,4,6-Tribromophenol	10.79	330	44225	19.79	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	211544	4.62	ng	-0.01
78) Terphenyl-d14	13.08	244	195273	19.06	ng	0.00
Target Compounds						
31) Naphthalene	8.27	128	37662	2.063	ng	Qvalue 98
37) 2-Methylnaphthalene	8.95	142	26416	2.183	ng	95
51) Acenaphthene	10.04	154	50385	4.189	ng	97
54) Dibenzofuran	10.21	168	60806	3.692	ng	93
57) Fluorene	10.55	166	98750	7.556	ng	99
70) Phenanthrene	11.52	178	736086	45.885	ng	99
71) Anthracene	11.57	178	242354	14.801	ng	99
72) Carbazole	11.72	167	40121	2.617	ng	98
74) Fluoranthene	12.72	202	1103271	62.396	ng	96
77) Pyrene	12.95	202	1010700	61.768	ng	97
80) Benzo(a)anthracene	14.14	228	667709	44.151	ng	97
82) Chrysene	14.17	228	529861	38.083	ng	98
85) Indeno(1,2,3-cd)pyrene	17.25	276	241869	20.485	ng	# 87
87) Benzo(b)fluoranthene	15.23	252	698604m	51.148	ng	
88) Benzo(k)fluoranthene	15.25	252	214310m	16.477	ng	
89) Benzo(a)pyrene	15.62	252	480111	39.541	ng	95
90) Dibenzo(a,h)anthracene	17.25	278	60796m	5.908	ng	
91) Benzo(g,h,i)perylene	17.73	276	225397	22.410	ng	# 89

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

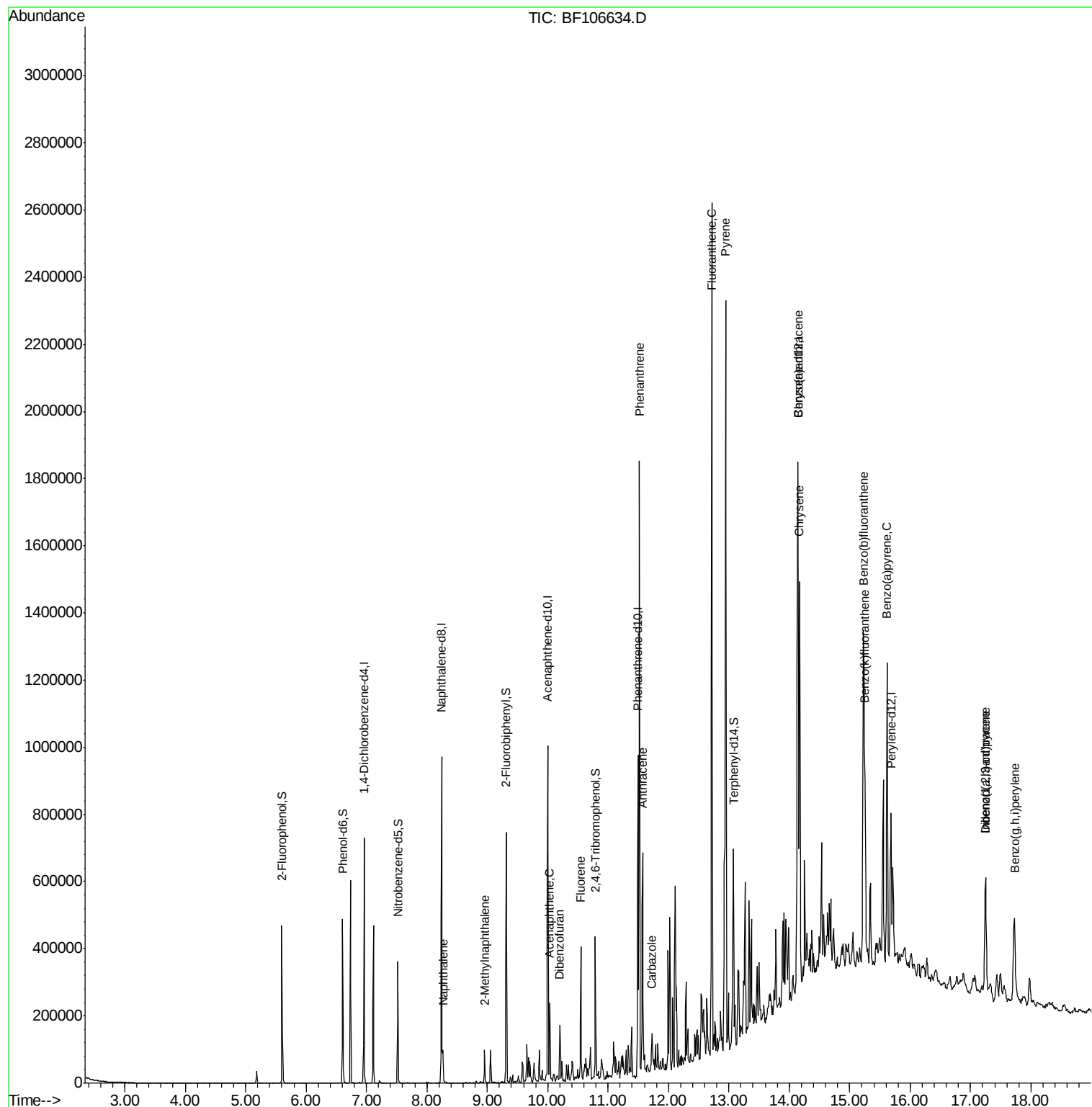
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\
Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM

Quant Time: Jun 21 08:03:33 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 19 14:32:09 2018
Response via : Initial Calibration





#1

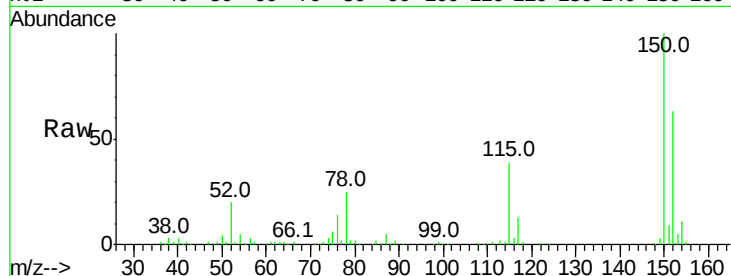
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.00 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	124.6	186.8
115	62.8	50.1	75.1

Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM

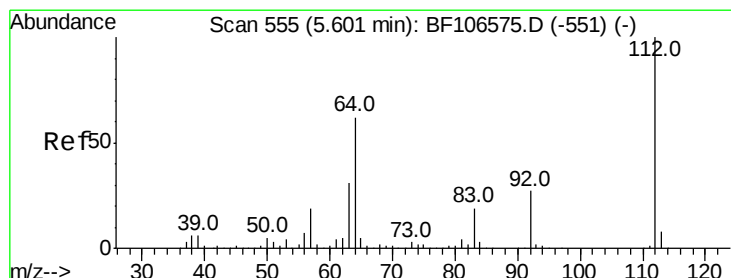
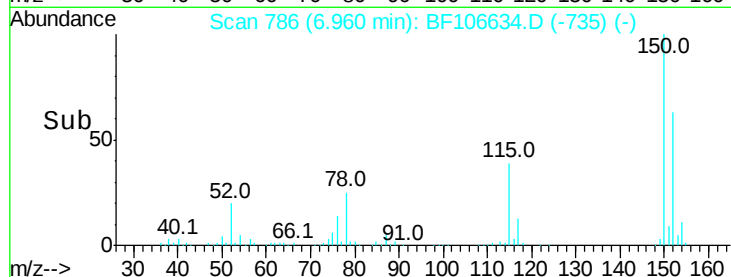
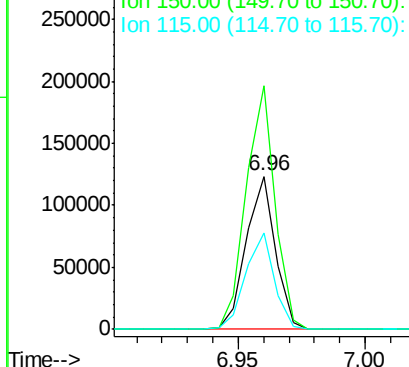


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

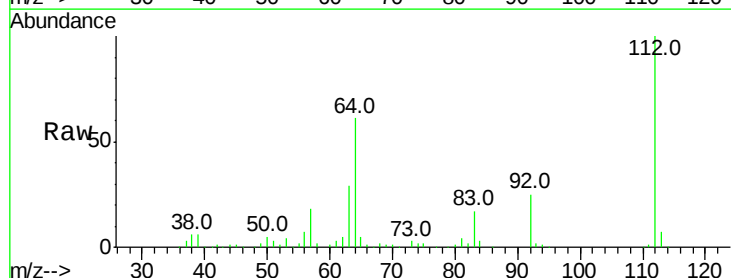
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 22.259 ng
RT: 5.60 min Scan# 555
Delta R.T. 0.00 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.3	47.9	71.9
63	29.4	23.7	35.5

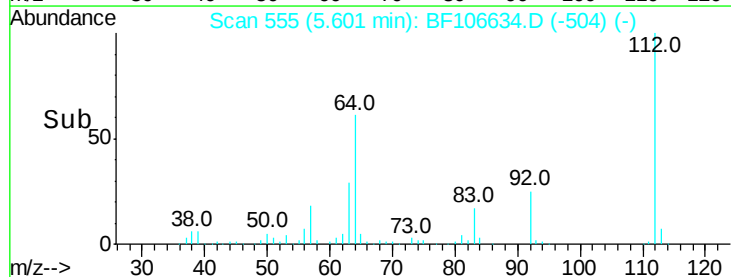
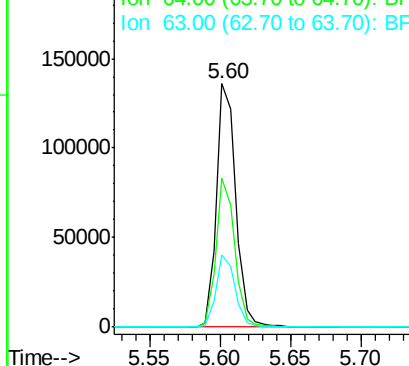


Abundance

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: 22.656 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.00 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA_F

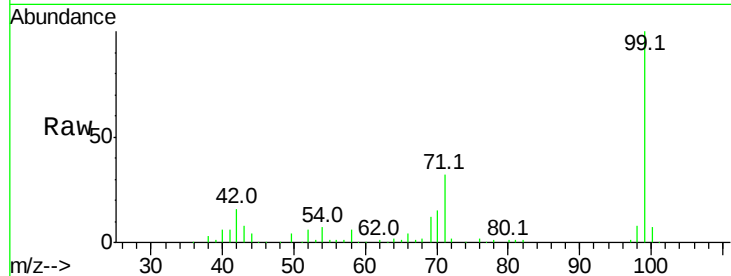
ClientSampleId :

PL-01-061818-B

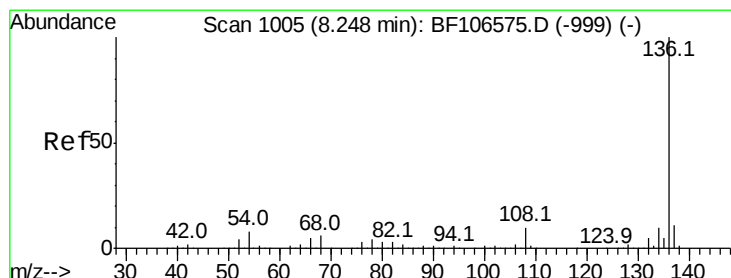
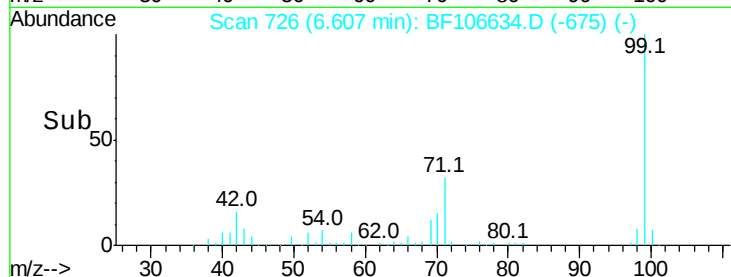
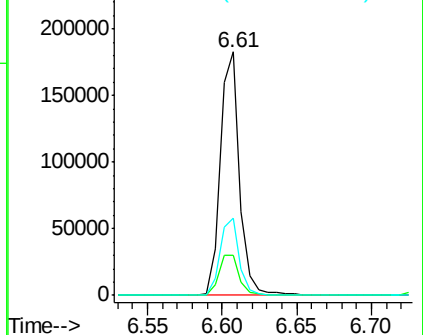
Tot Ion:	99	Resp:	165422
Ion Ratio	Lower	Upper	
99	100		
42	16.4	14.5	21.7
71	31.7	25.4	38.0

Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

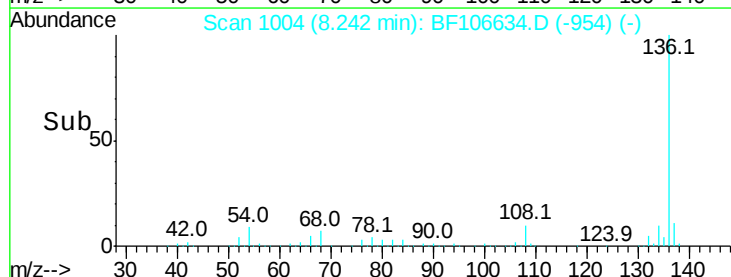
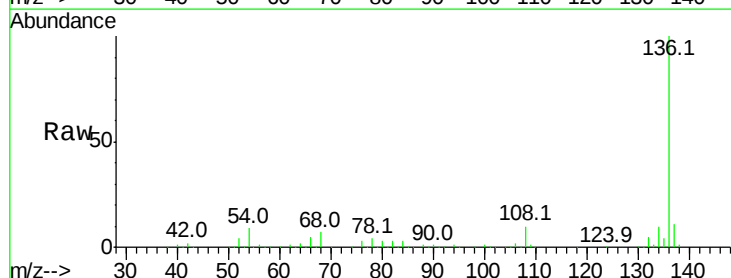
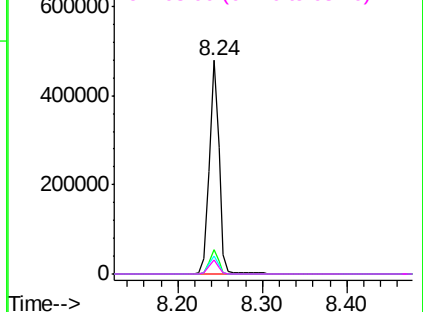
Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Tgt Ion:	136	Resp:	390467
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.9	13.3
54	8.6	6.6	9.8
68	6.7	5.0	7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





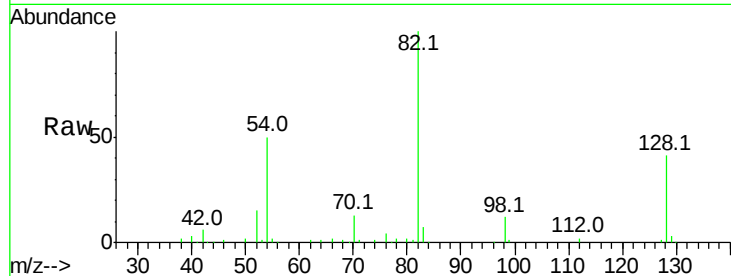
#23
Nitrobenzene-d5
Concen: 14.632 ng
RT: 7.52 min Scan# 881
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

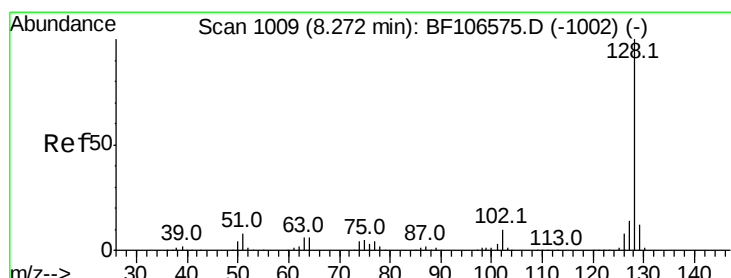
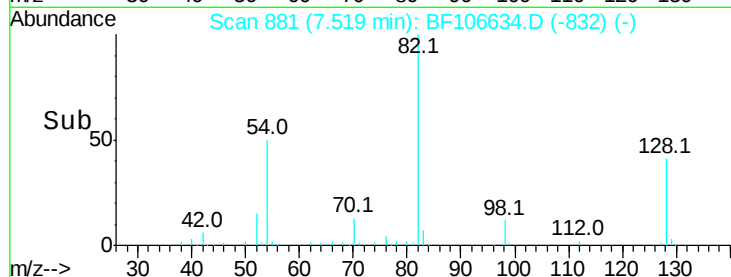
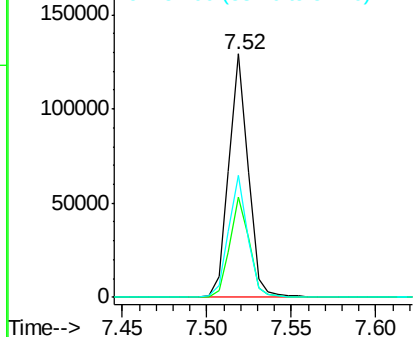
Tot Ion	Ratio	Resp Lower	Upper
82	100		
128	41.4	36.1	54.1
54	50.2	41.4	62.2

Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM

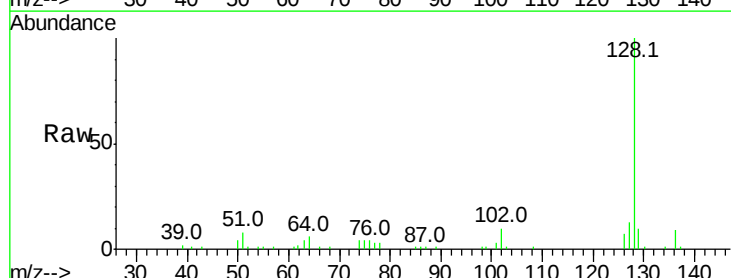


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

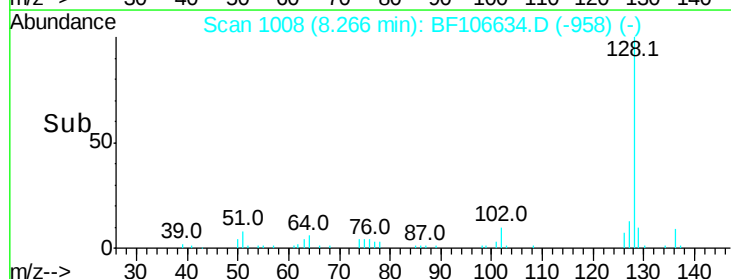
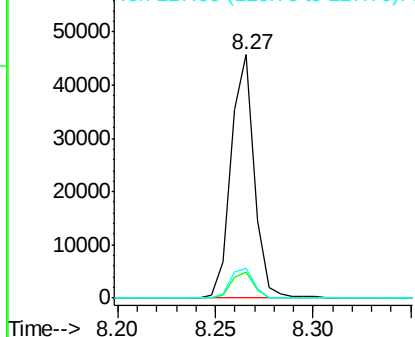


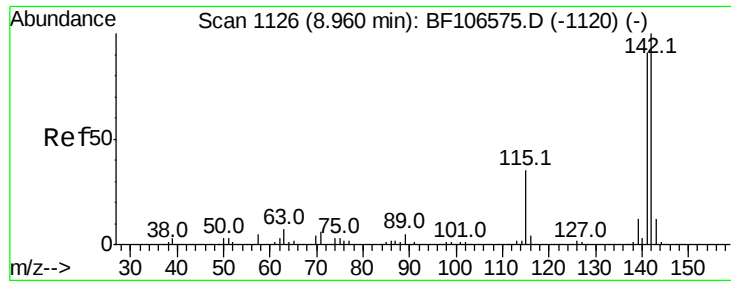
#31
Naphthalene
Concen: 2.063 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	10.4	8.8	13.2
127	12.5	10.9	16.3



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





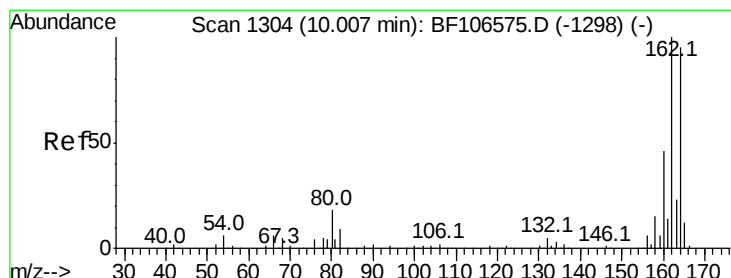
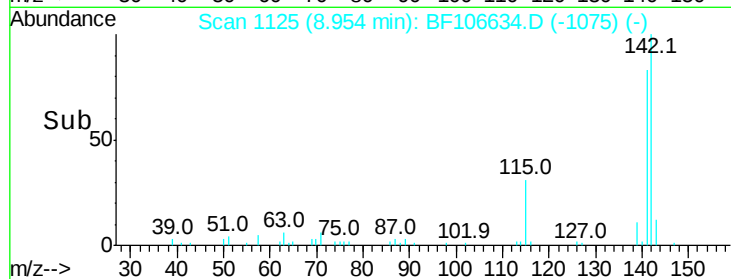
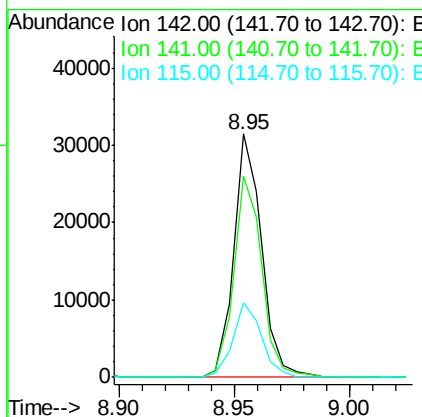
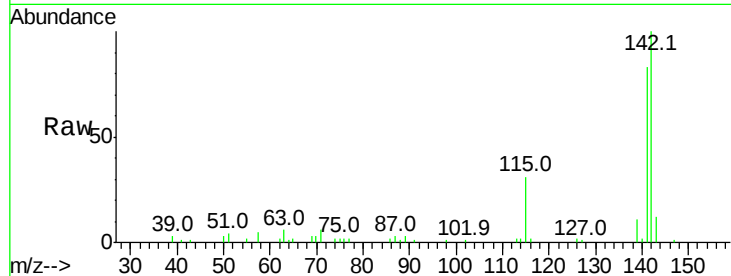
#37
2-Methylnaphthalene
Concen: 2.183 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Tot Ion	Ratio	Lower	Upper
142	100		
141	82.6	70.8	106.2
115	30.8	26.1	39.1

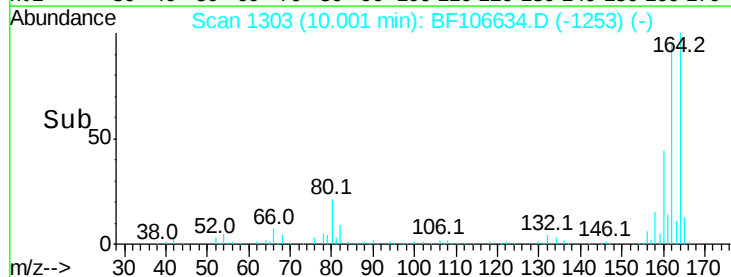
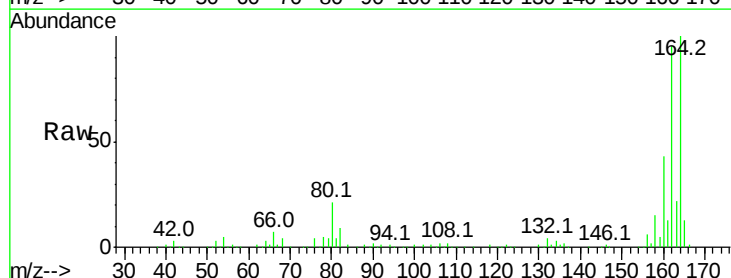
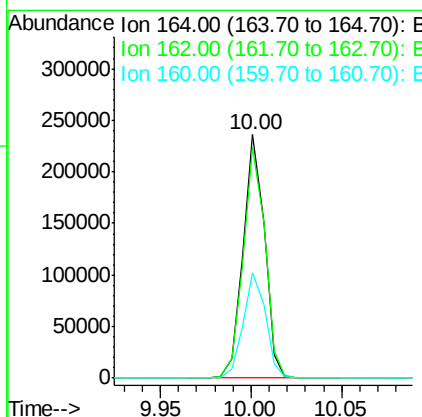
Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
164	100		
162	95.1	86.1	129.1
160	43.5	38.3	57.5





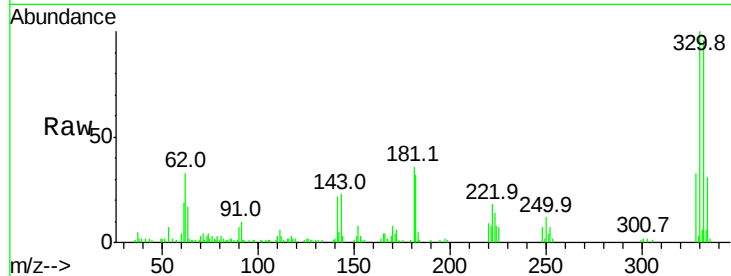
#41
 2,4,6-Tribromophenol
 Concen: 19.786 ng
 RT: 10.79 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF106634.D
 Acq: 20 Jun 2018 21:55

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-B

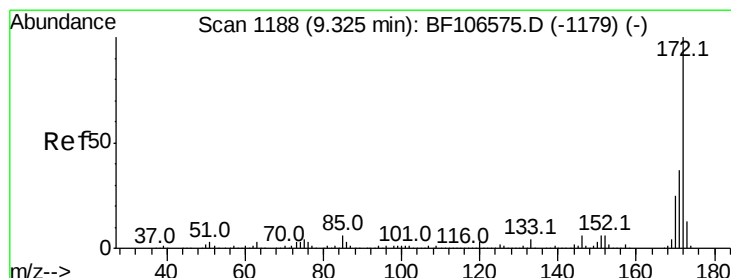
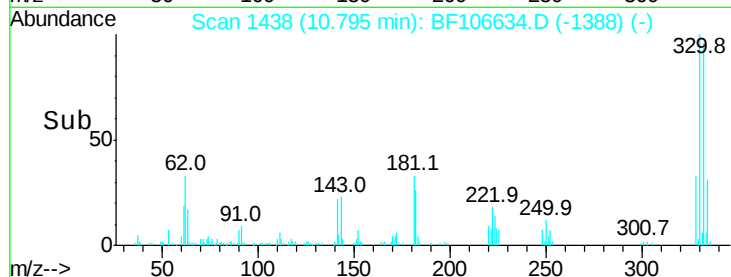
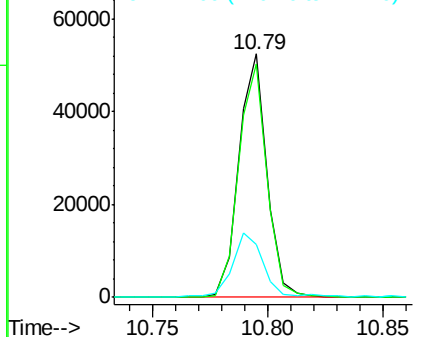
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.2	77.0	115.6	
141	29.2	29.9	44.9	

Manual Integrations
 APPROVED

Sohil
 6/21/2018 11:28:10 AM



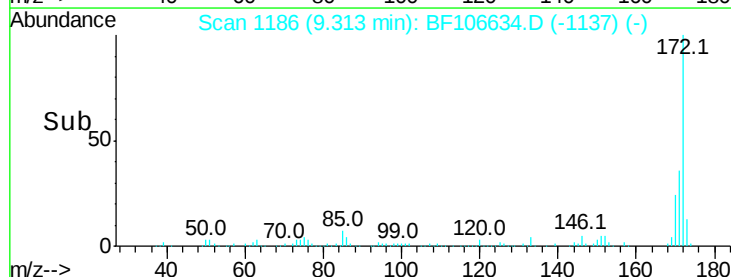
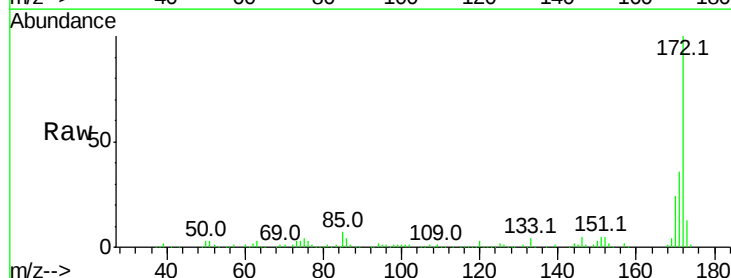
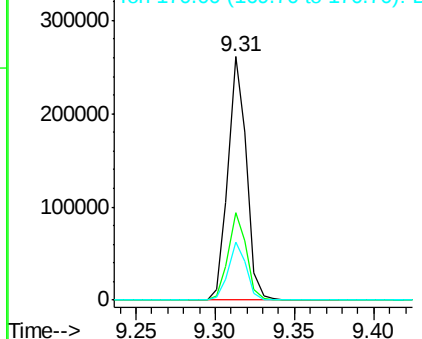
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

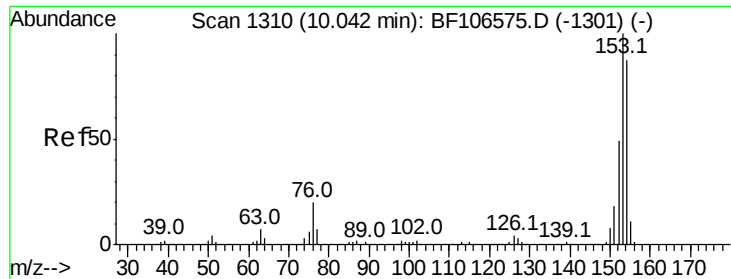


#44
 2-Fluorobiphenyl
 Concen: 4.618 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF106634.D
 Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.7	29.7	44.5	
170	23.9	19.6	29.4	

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





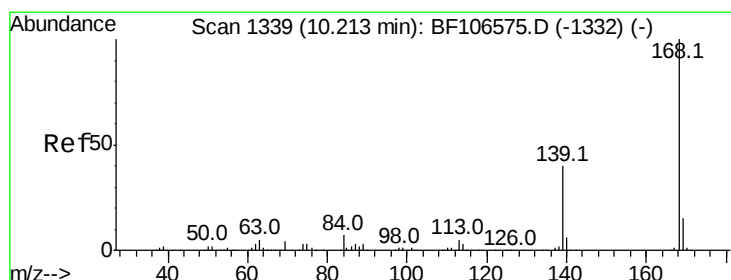
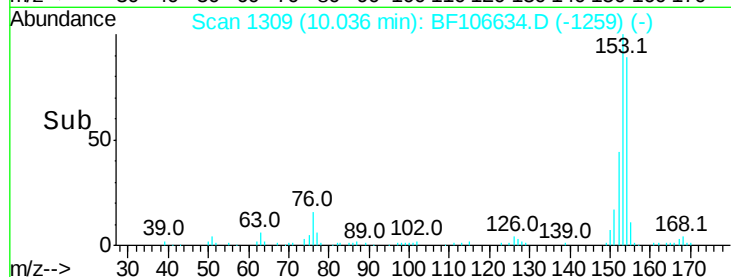
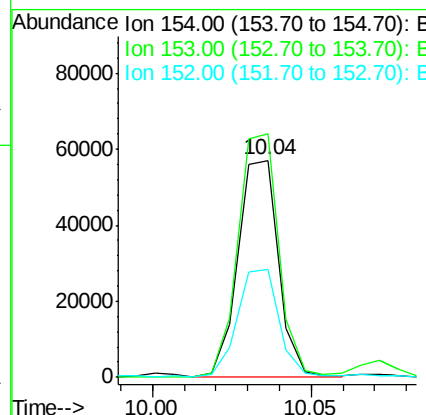
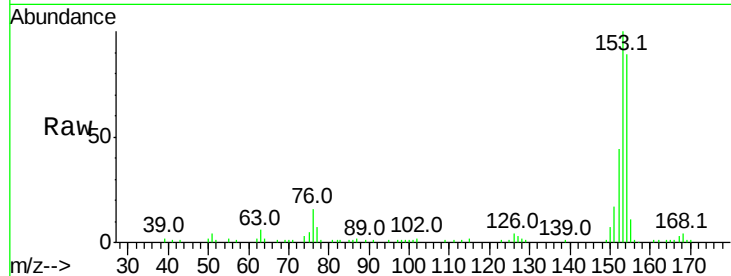
#51
Acenaphthene
Concen: 4.189 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Tot Ion	Ratio	Lower	Upper
154	100		
153	112.2	91.2	136.8
152	49.9	43.8	65.8

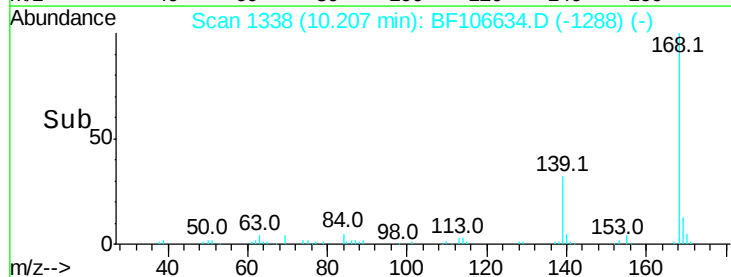
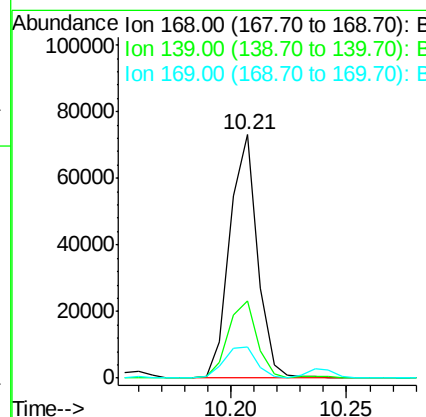
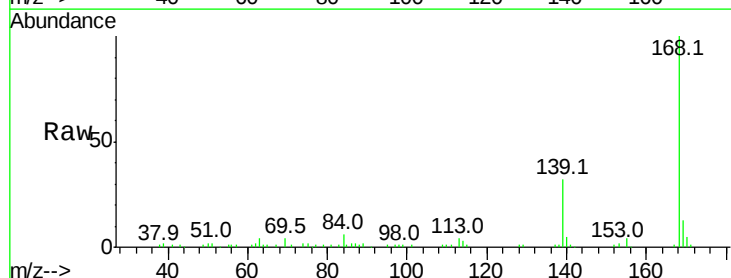
Manual Integrations
APPROVED

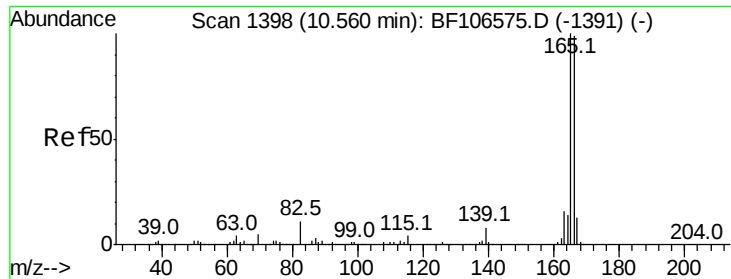
Sohil
6/21/2018 11:28:10 AM



#54
Dibenzofuran
Concen: 3.692 ng
RT: 10.21 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
168	100		
139	31.9	30.1	45.1
169	13.0	10.9	16.3





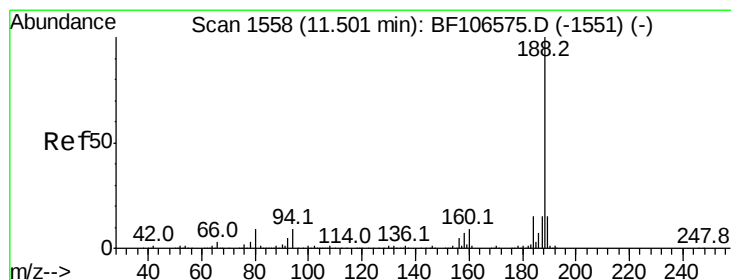
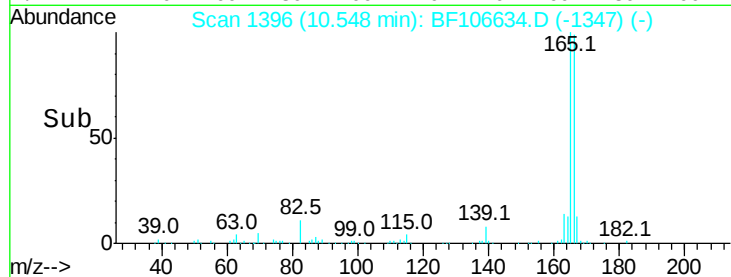
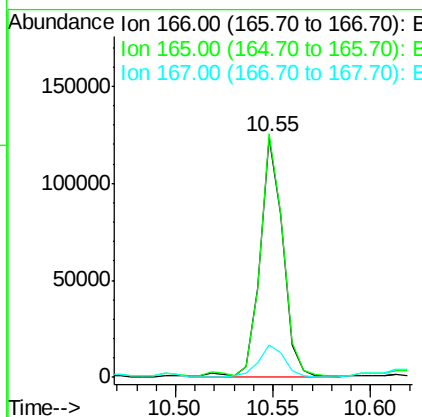
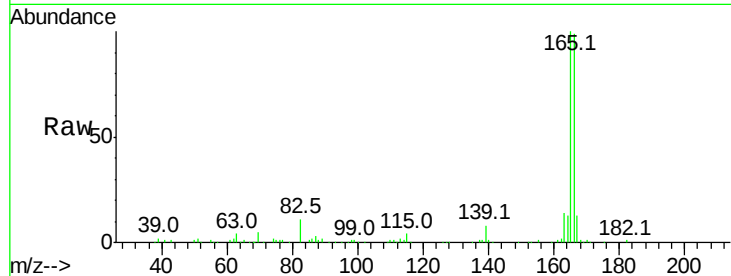
#57
Fluorene
 Concen: 7.556 ng
 RT: 10.55 min Scan# 1396
 Delta R.T. -0.01 min
 Lab File: BF106634.D
 Acq: 20 Jun 2018 21:55

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-B

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.8	119.8
167	13.3	10.6	16.0

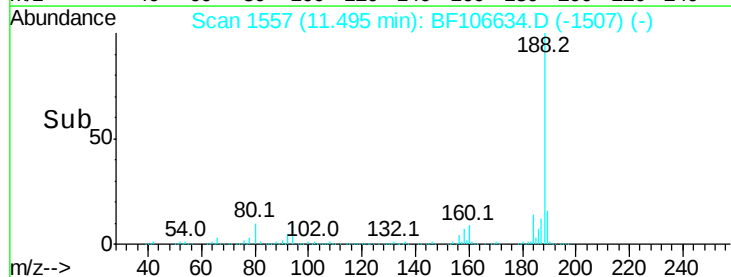
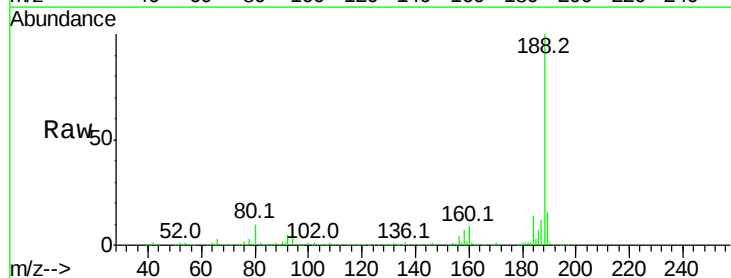
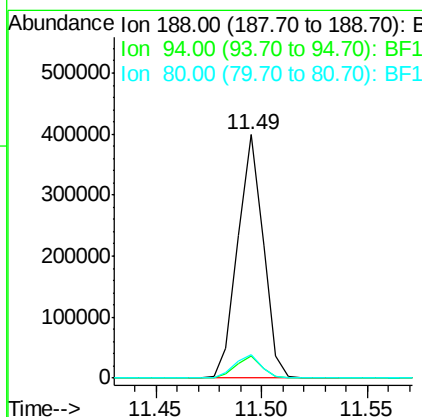
Manual Integrations
 APPROVED

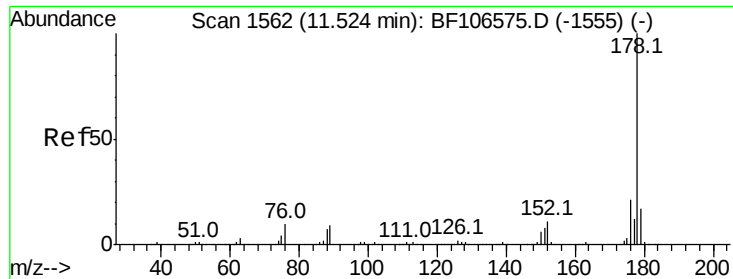
Sohil
 6/21/2018 11:28:10 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.49 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF106634.D
 Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.5	12.7
80	9.9	9.2	13.8





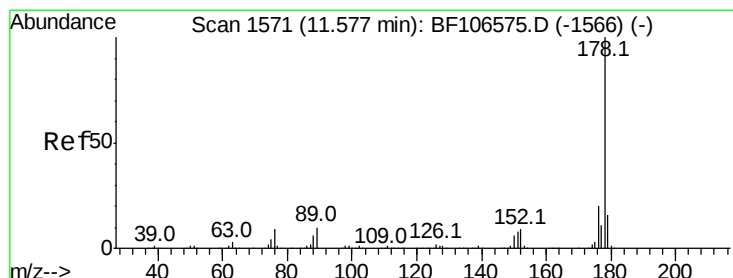
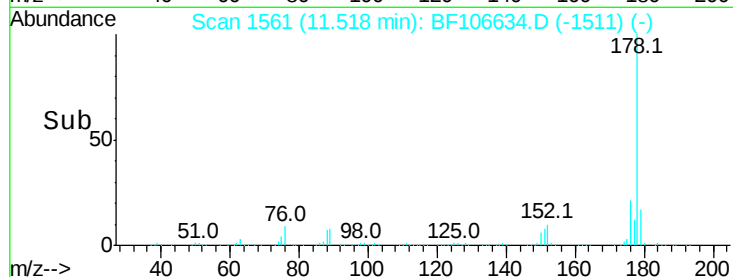
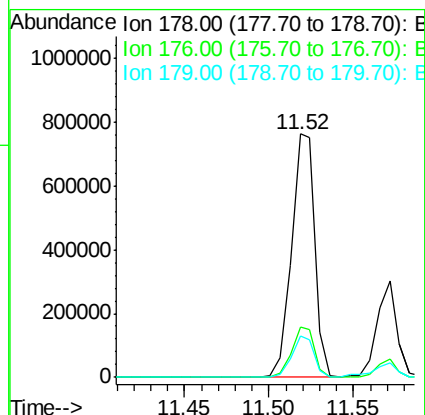
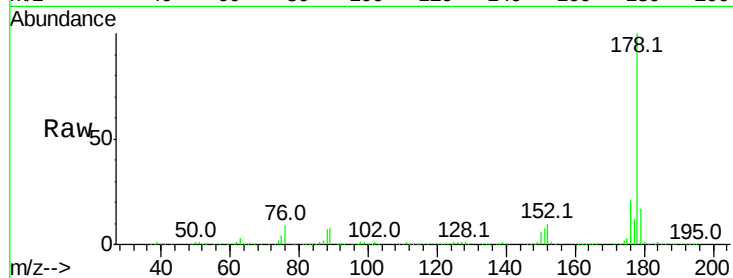
#70
Phenanthrene
Concen: 45.885 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.6	15.8	23.8
179	16.7	13.0	19.6

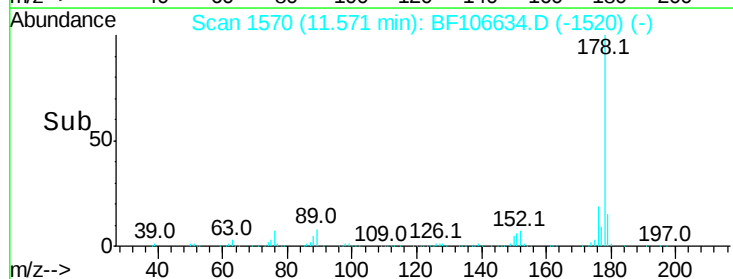
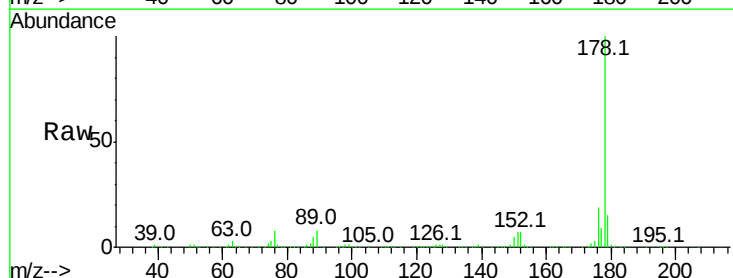
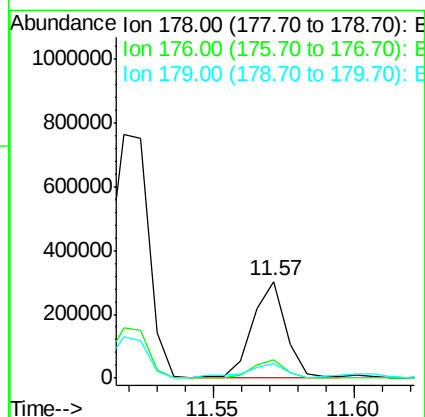
Manual Integrations
APPROVED

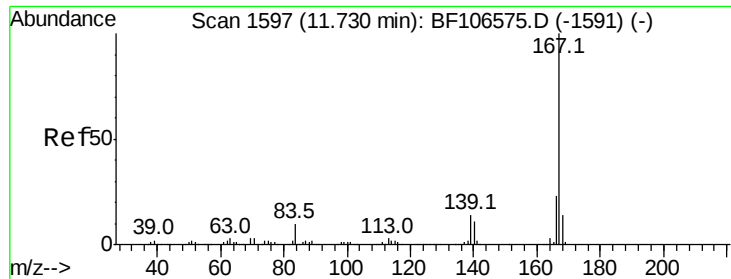
Sohil
6/21/2018 11:28:10 AM



#71
Anthracene
Concen: 14.801 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.3	12.6	19.0





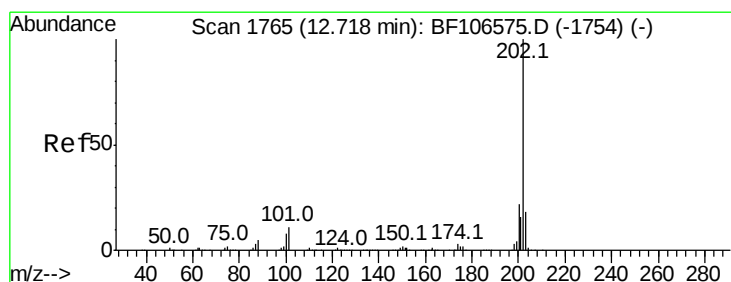
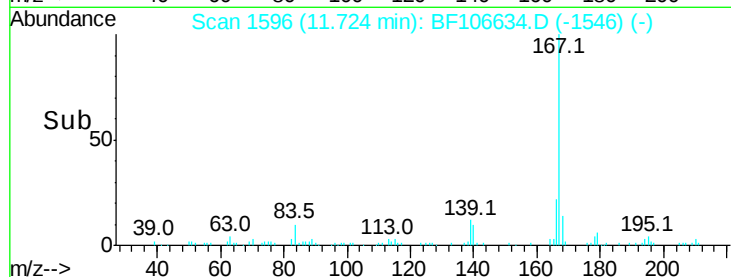
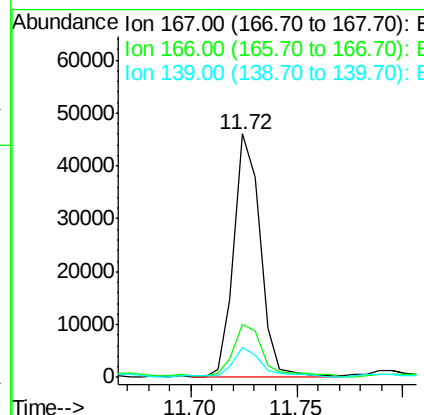
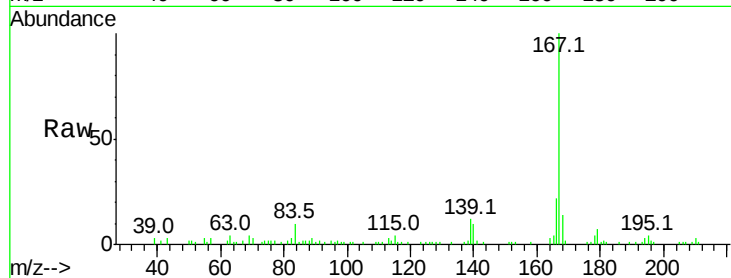
#72
 Carbazole
 Concen: 2.617 ng
 RT: 11.72 min Scan# 1596
 Delta R.T. -0.01 min
 Lab File: BF106634.D
 Acq: 20 Jun 2018 21:55

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-B

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.6	26.4
139	12.5	10.9	16.3

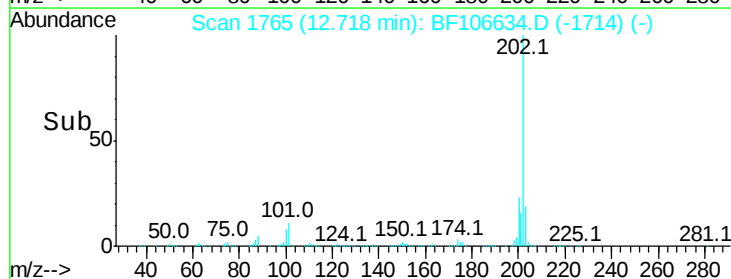
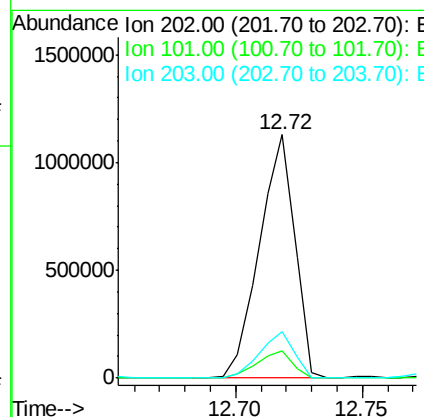
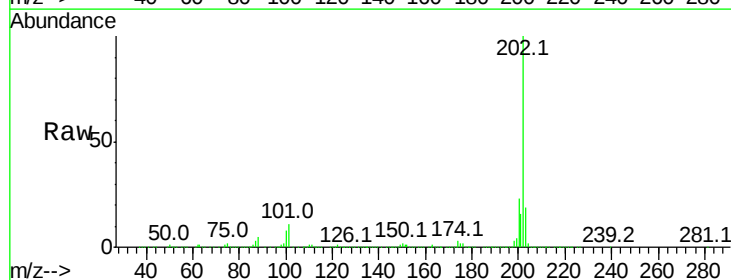
Manual Integrations
 APPROVED

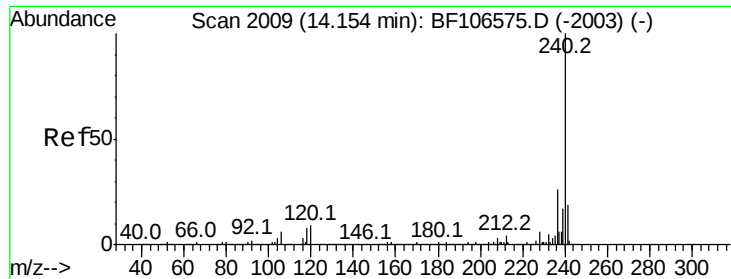
Sohil
 6/21/2018 11:28:10 AM



#74
 Fluoranthene
 Concen: 62.396 ng
 RT: 12.72 min Scan# 1765
 Delta R.T. -0.00 min
 Lab File: BF106634.D
 Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	34.1
203	18.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA_F

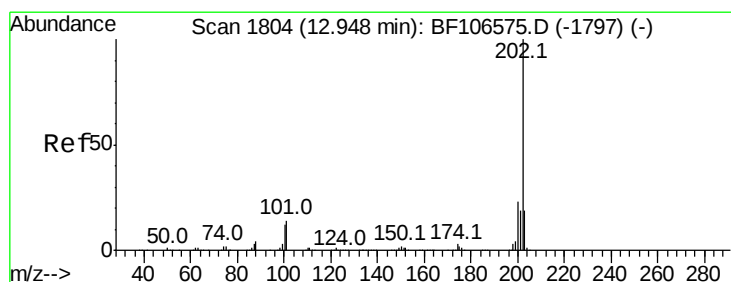
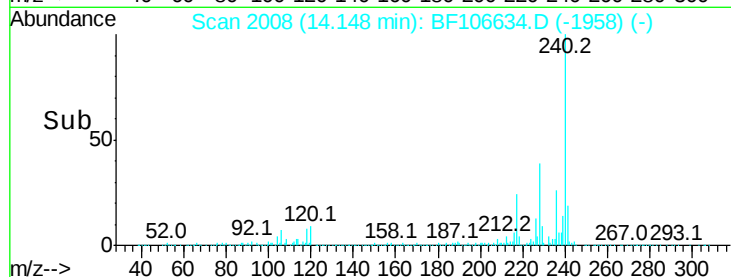
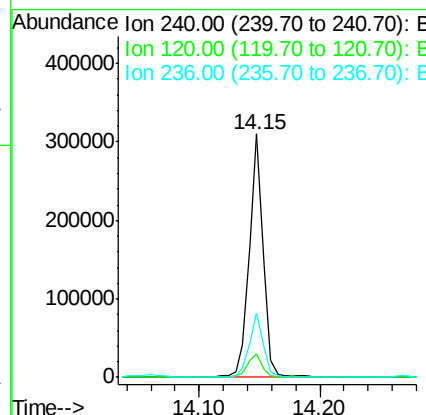
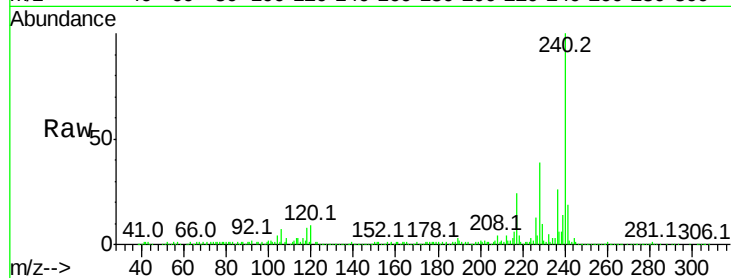
ClientSampleId :

PL-01-061818-B

Tot Ion:	240	Resp:	248136
Ion Ratio	Lower	Upper	
240	100		
120	9.4	9.5	14.3#
236	26.2	20.7	31.1

Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM



#77

Pyrene

Concen: 61.768 ng

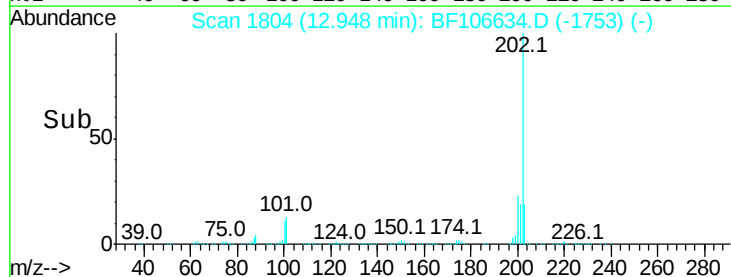
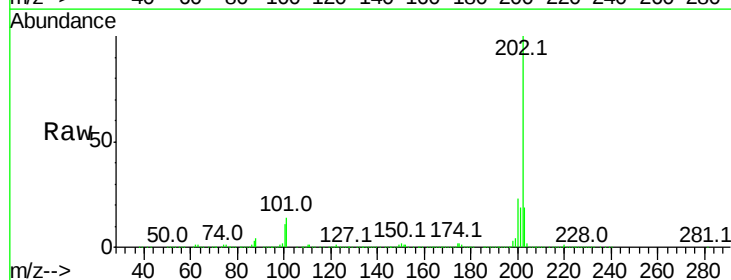
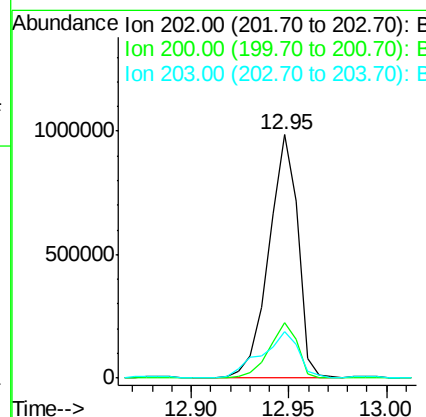
RT: 12.95 min Scan# 1804

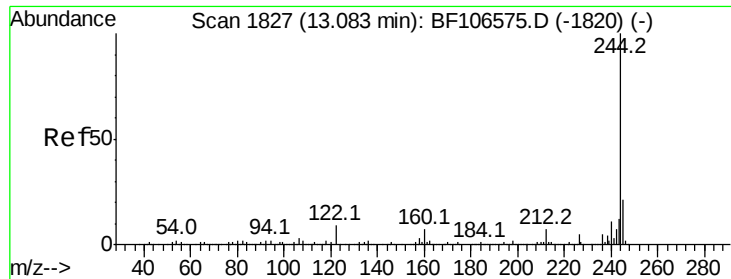
Delta R.T. -0.00 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Tgt Ion:	202	Resp:	1010700
Ion Ratio	Lower	Upper	
202	100		
200	22.9	17.4	26.2
203	19.1	14.3	21.5





#78

Terphenyl-d14

Concen: 19.063 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA_F

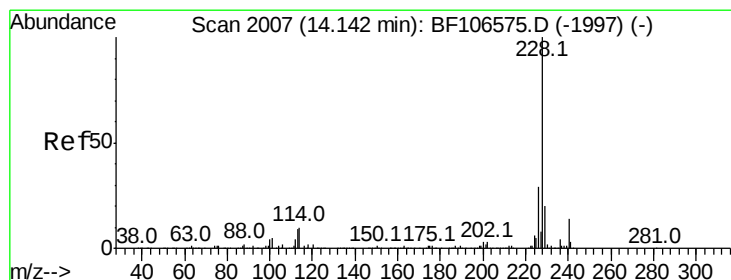
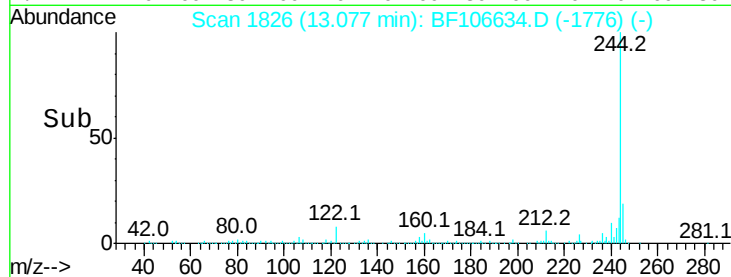
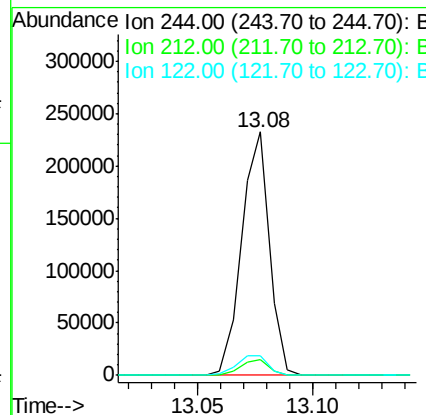
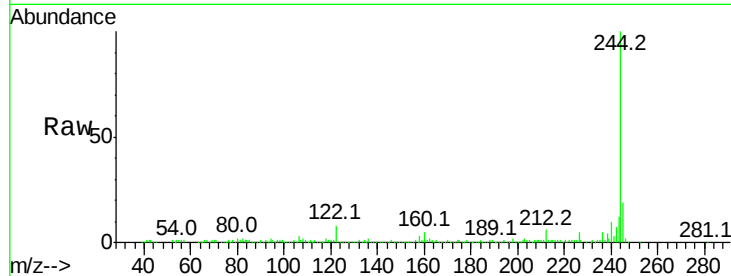
ClientSampleId :

PL-01-061818-B

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	6.2	5.4	8.0	
122	8.1	11.0	16.4	

Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM



#80

Benzo(a)anthracene

Concen: 44.151 ng

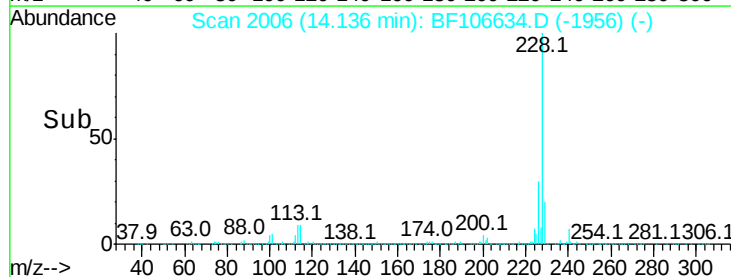
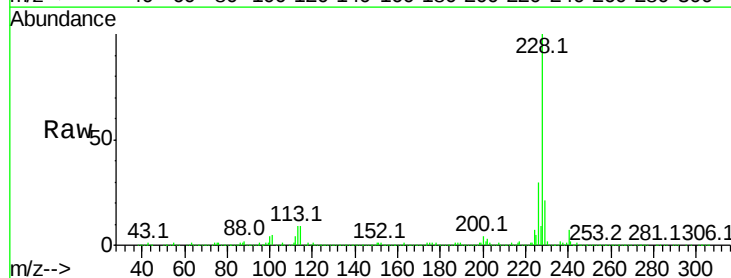
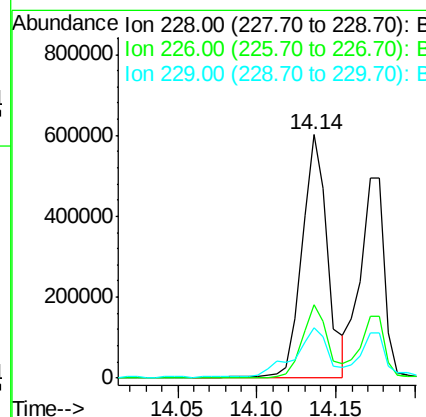
RT: 14.14 min Scan# 2006

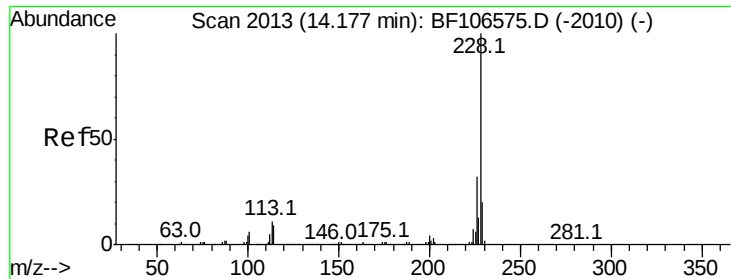
Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	30.0	22.6	33.8	
229	20.7	15.8	23.6	





#82

Chrysene

Concen: 38.083 ng

RT: 14.17 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA_F

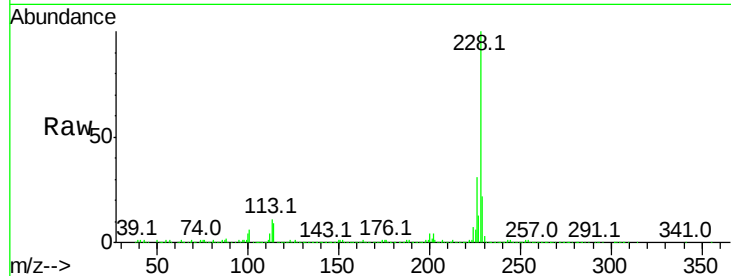
ClientSampled :

PL-01-061818-B

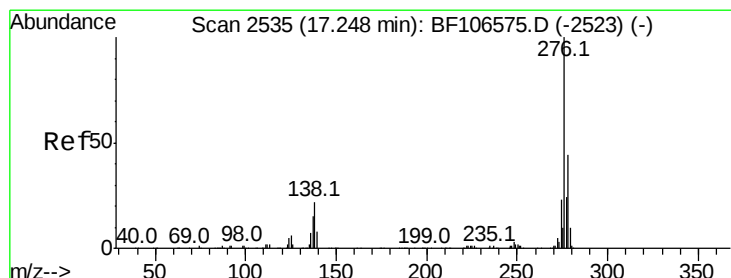
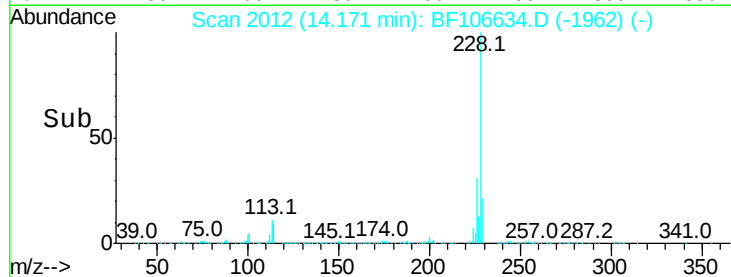
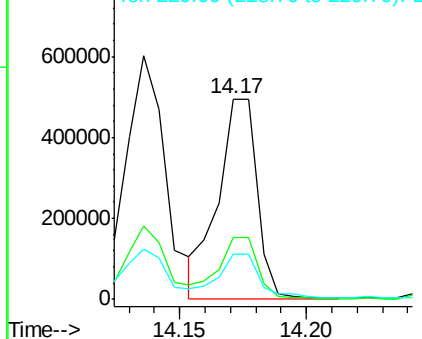
Tot Ion:	228	Resp:	529861
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.0	37.6
229	22.3	16.2	24.4

Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM



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: 20.485 ng

RT: 17.25 min Scan# 2535

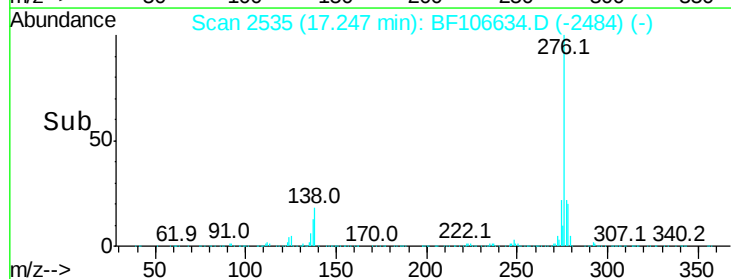
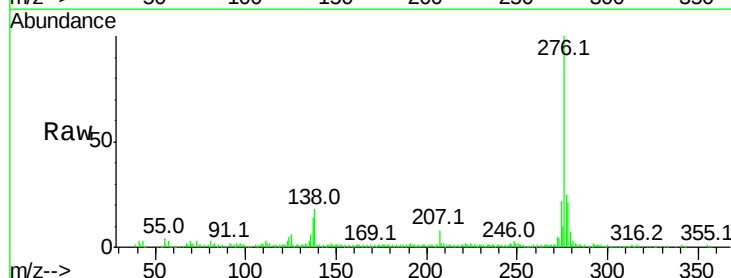
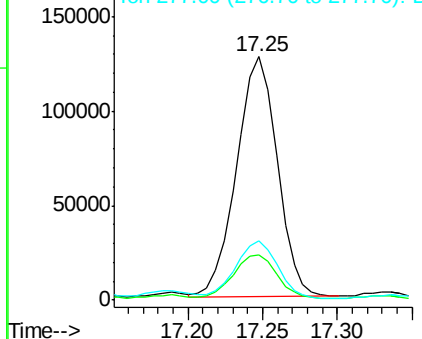
Delta R.T. -0.00 min

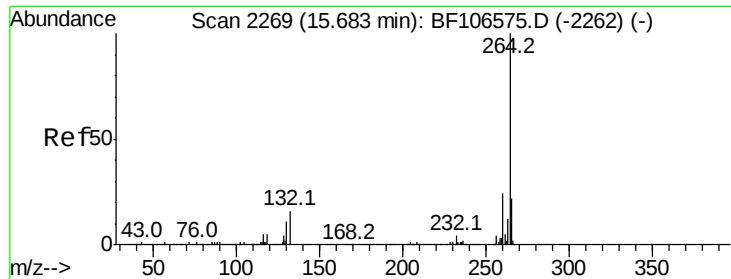
Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Tgt Ion:	276	Resp:	241869
Ion Ratio	Lower	Upper	
276	100		
138	19.4	25.0	37.6#
277	24.3	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





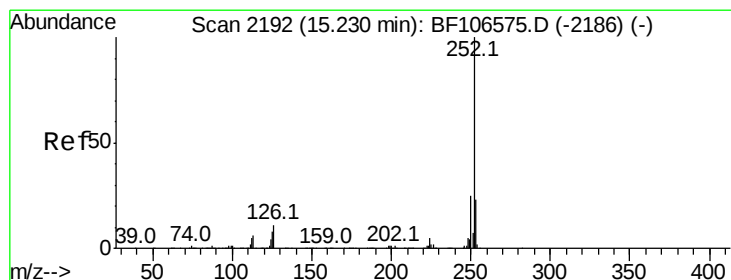
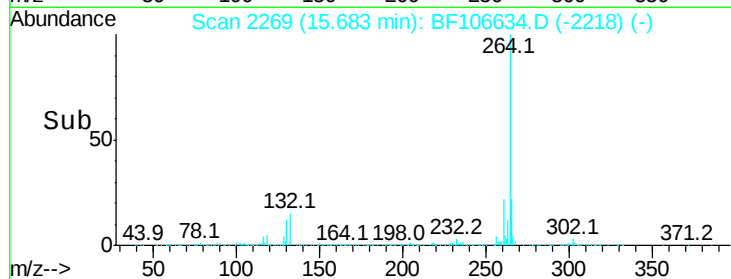
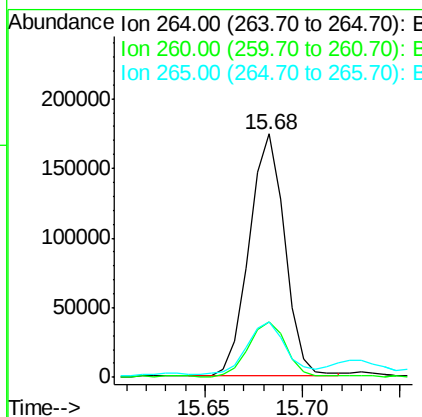
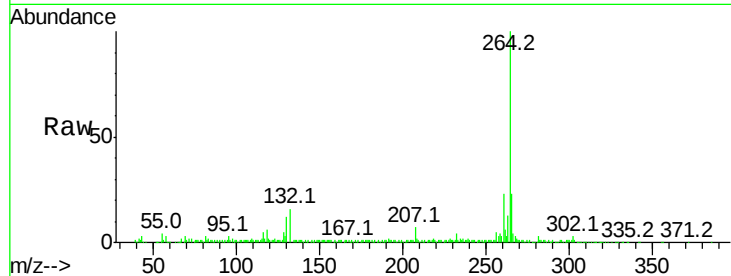
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2269
Delta R.T. -0.00 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.2	28.8
265	22.8	17.5	26.3

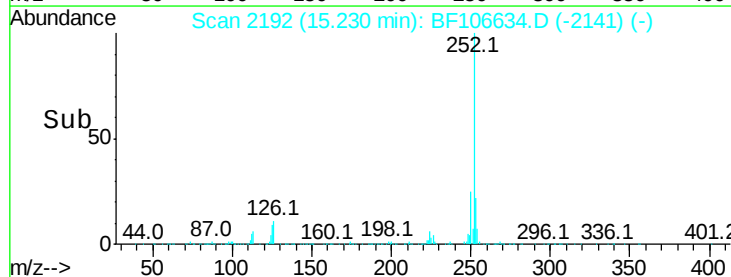
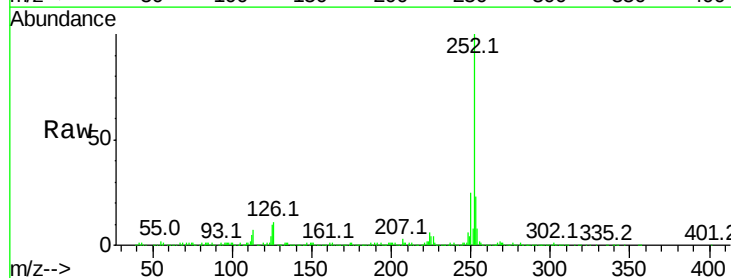
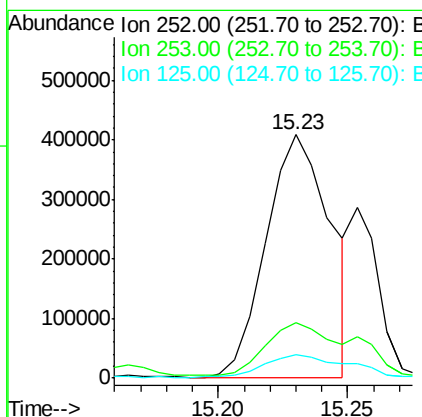
Manual Integrations
APPROVED

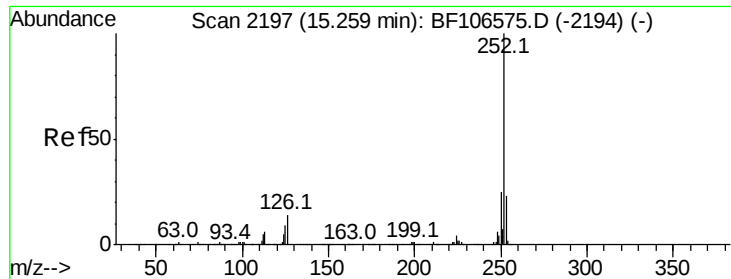
Sohil
6/21/2018 11:28:10 AM



#87
Benzo(b)fluoranthene
Concen: 51.148 ng m
RT: 15.23 min Scan# 2192
Delta R.T. -0.00 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	9.8	9.0	13.6





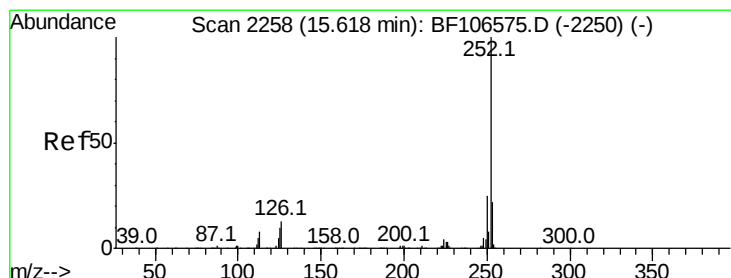
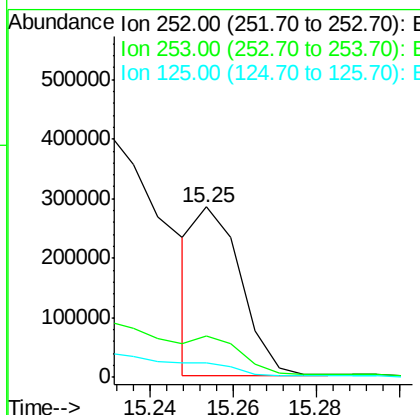
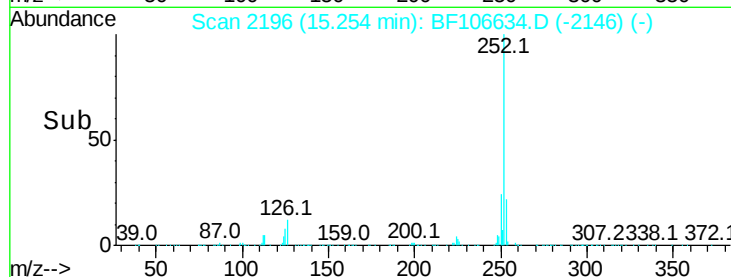
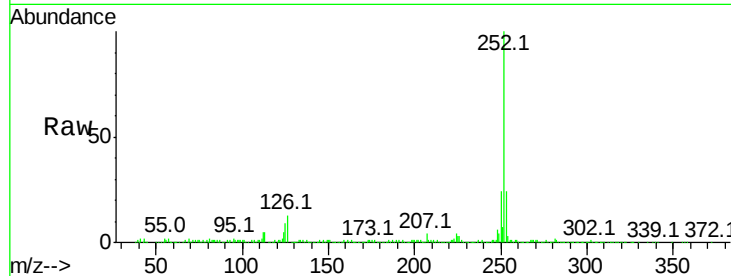
#88
Benzo(k)fluoranthene
Concen: 16.477 ng m
RT: 15.25 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Tot Ion	Ratio	Resp	Lower	Upper
252	100	214310		
253	24.1	17.9	26.9	
125	8.8	10.2	15.2	

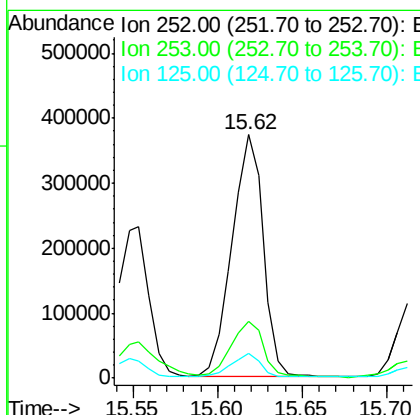
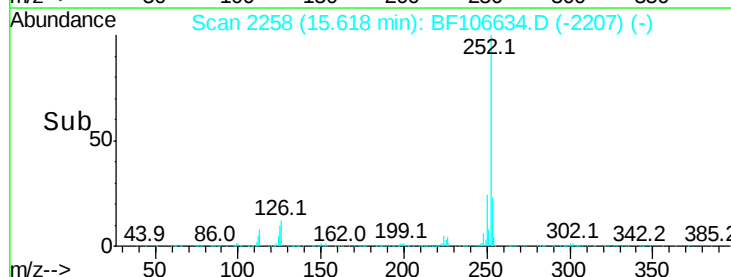
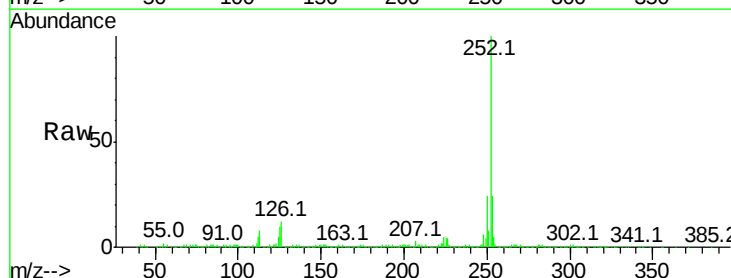
Manual Integrations
APPROVED

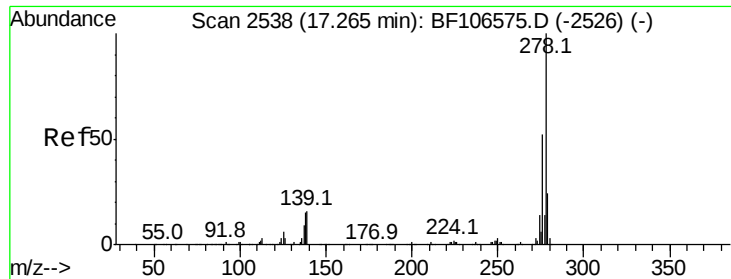
Sohil
6/21/2018 11:28:10 AM



#89
Benzo(a)pyrene
Concen: 39.541 ng
RT: 15.62 min Scan# 2258
Delta R.T. -0.00 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	480111		
253	23.5	17.1	25.7	
125	10.0	9.8	14.6	





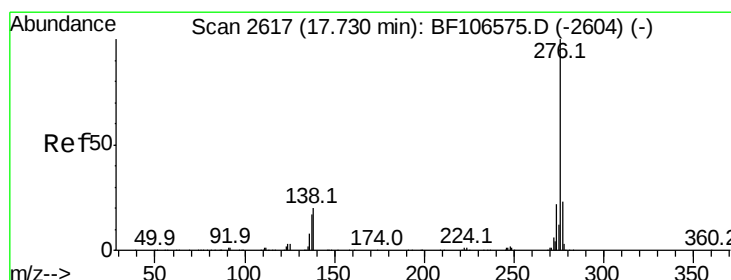
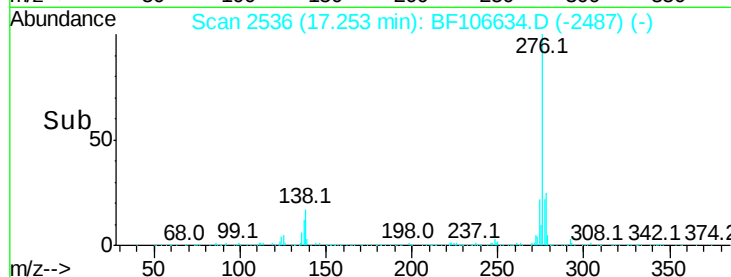
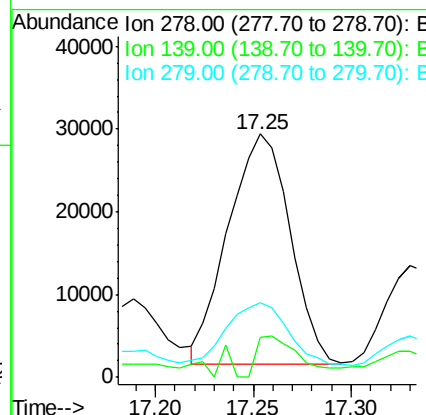
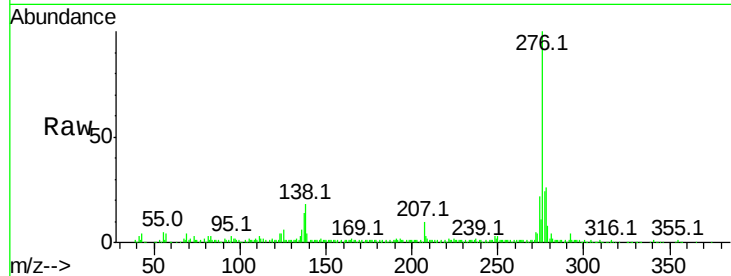
#90
Dibenzo(a,h)anthracene
Concen: 5.908 ng m
RT: 17.25 min Scan# 2536
Delta R.T. -0.01 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.5	15.9	23.9
279	30.8	19.0	28.4

Manual Integrations
APPROVED

Sohil
6/21/2018 11:28:10 AM



#91
Benzo(g,h,i)perylene
Concen: 22.410 ng
RT: 17.73 min Scan# 2617
Delta R.T. -0.00 min
Lab File: BF106634.D
Acq: 20 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	17.9	26.9
138	18.4	21.8	32.8

