

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090518\
 Data File : BF108820.D
 Acq On : 6 Sep 2018 12:31
 Operator : JU/SJ
 Sample : J4724-12
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP1-SUT-UST-11

Manual Integrations
 APPROVED

Sohil
 9/6/2018 4:46:24 PM

Quant Time: Sep 06 13:43:11 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF090518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 05 18:03:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	239631	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	844328	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	334723	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	561513	20.00	ng	0.00
75) Chrysene-d12	13.87	240	591425	20.00	ng	0.00
86) Perylene-d12	15.28	264	505762	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	1044142	72.19	ng	0.01
7) Phenol-d6	6.37	99	1297674	69.73	ng	0.00
23) Nitrobenzene-d5	7.30	82	757489	56.14	ng	0.00
41) 2,4,6-Tribromophenol	10.55	330	221269	69.25	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	1277267	65.10	ng	0.00
78) Terphenyl-d14	12.82	244	1153717	45.49	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.04	128	104311	2.746	ng	99
49) Dimethylphthalate	9.48	163	470634	20.103	ng	99
51) Acenaphthene	9.80	154	49081	2.553	ng	96
57) Fluorene	10.31	166	38550	2.144	ng	96
70) Phenanthrene	11.27	178	511410	19.072	ng	99
71) Anthracene	11.32	178	73405	2.859	ng	97
72) Carbazole	11.47	167	67311	2.490	ng	98
74) Fluoranthene	12.45	202	659720	24.849	ng	99
77) Pyrene	12.68	202	563551	12.383	ng	99
80) Benzo(a)anthracene	13.86	228	278463	7.346	ng	98
82) Chrysene	13.90	228	281313	7.666	ng	96
85) Indeno(1,2,3-cd)pyrene	16.62	276	106875m	3.291	ng	
87) Benzo(b)fluoranthene	14.88	252	337334m	12.266	ng	
88) Benzo(k)fluoranthene	14.90	252	91863m	3.627	ng	
89) Benzo(a)pyrene	15.21	252	202623	8.166	ng	97
91) Benzo(g,h,i)perylene	17.02	276	97243	4.442	ng	96

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

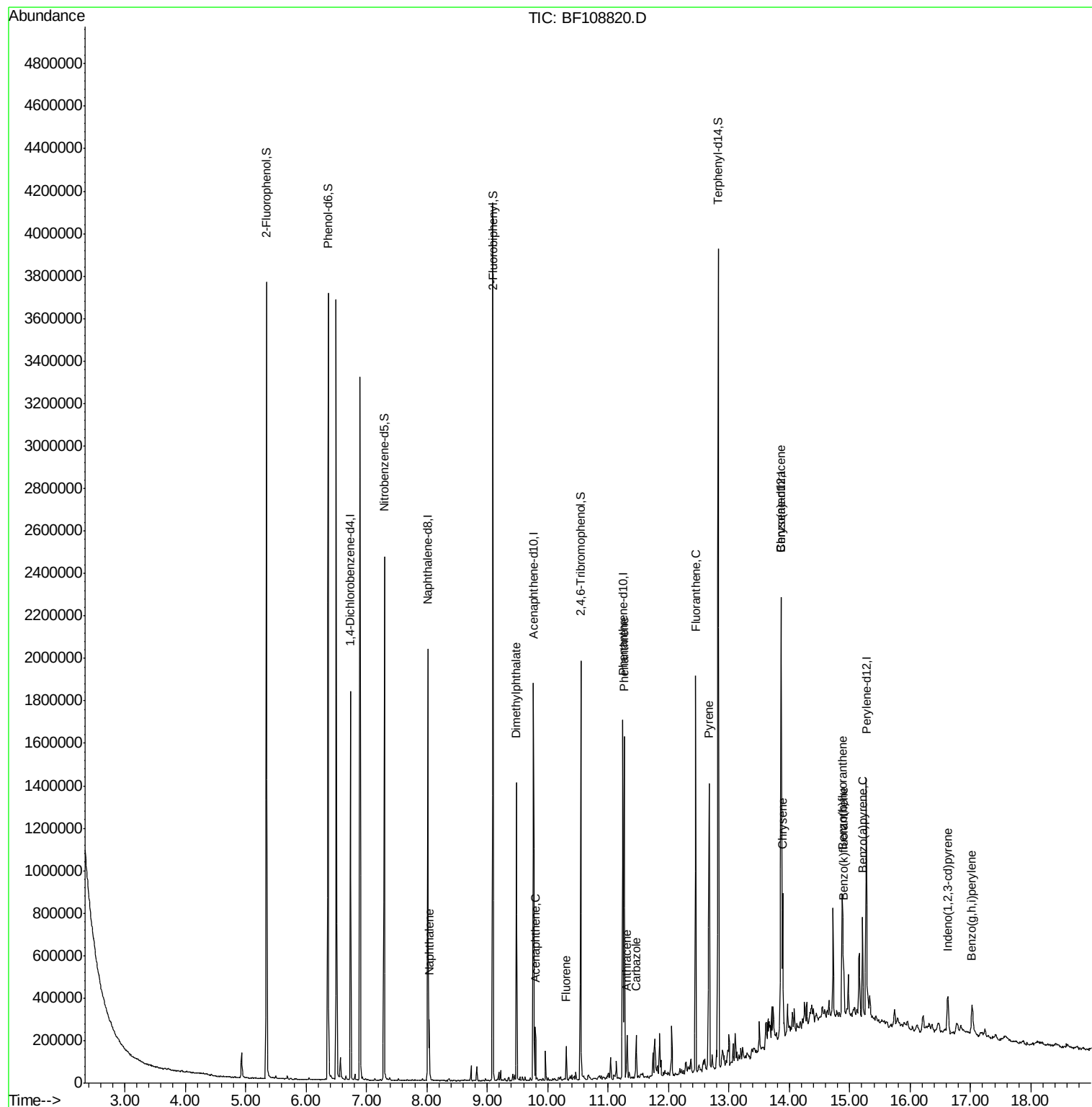
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090518\
Data File : BF108820.D
Acq On : 6 Sep 2018 12:31
Operator : JU/SJ
Sample : J4724-12
Misc :
ALS Vial : 38 Sample Multiplier: 1

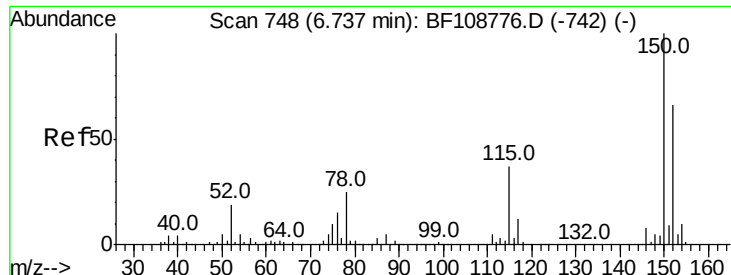
Instrument :
BNA_F
ClientSampleId :
EP1-SUT-UST-11

Manual Integrations
APPROVED

Sohil
9/6/2018 4:46:24 PM

Quant Time: Sep 06 13:43:11 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF090518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 05 18:03:31 2018
Response via : Initial Calibration





#1

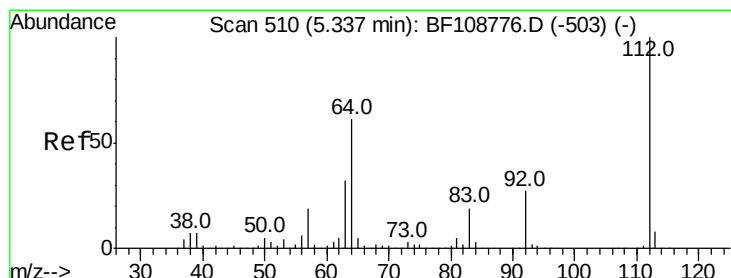
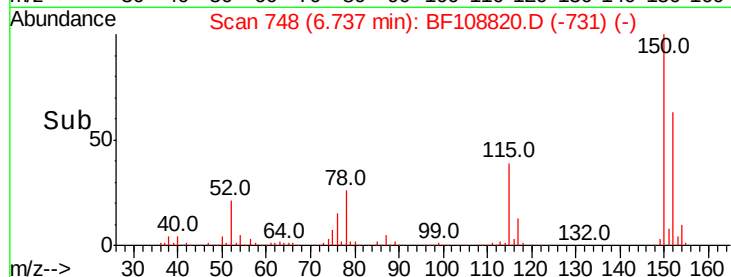
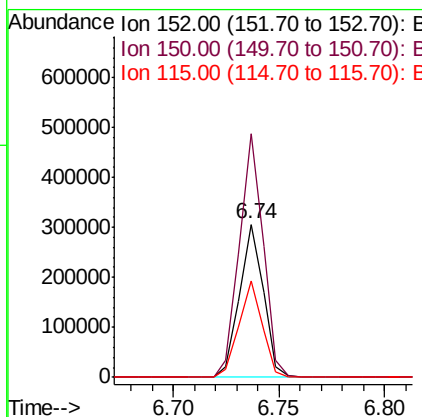
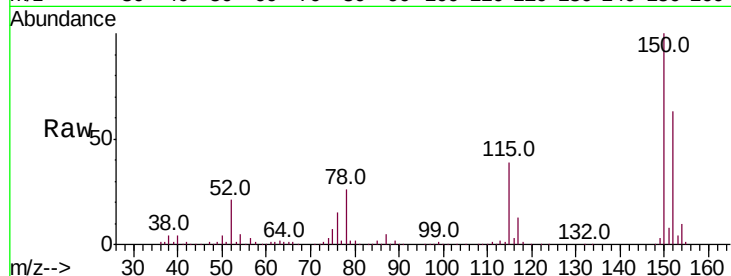
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 748
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Instrument :
BNA_F
ClientSampleId :
EP1-SUT-UST-11

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.4	124.6	186.8
115	62.9	50.1	75.1

Manual Integrations
APPROVED

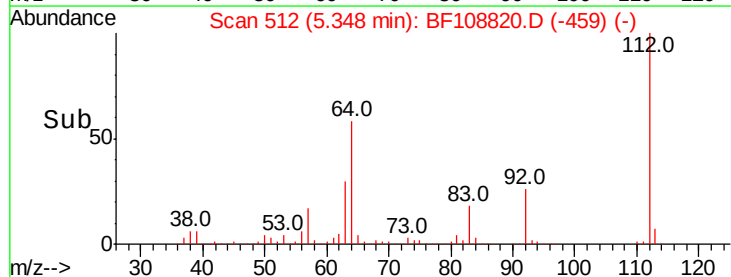
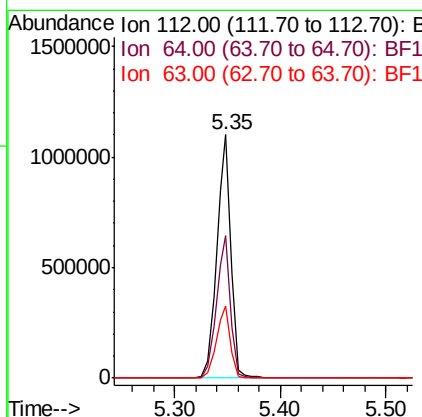
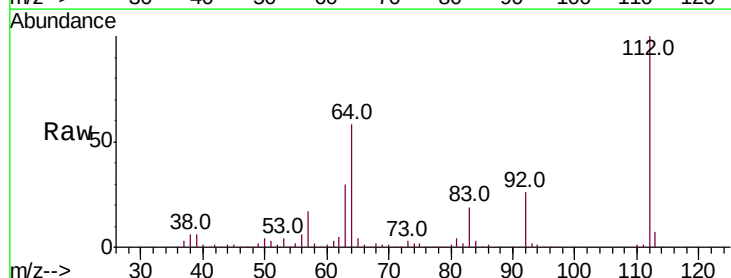
Sohil
9/6/2018 4:46:24 PM

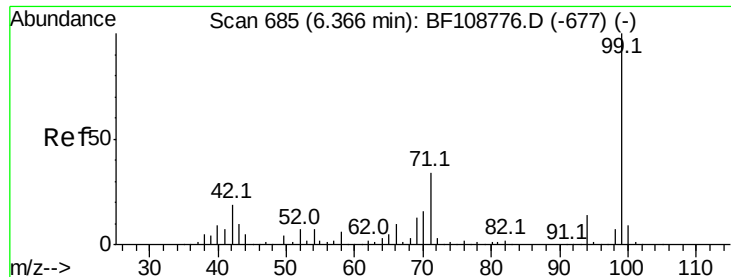


#5

2-Fluorophenol
Concen: 72.186 ng
RT: 5.35 min Scan# 512
Delta R.T. 0.01 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.3	47.9	71.9
63	29.6	23.7	35.5





#7

Phenol-d6

Concen: 69.726 ng

RT: 6.37 min Scan# 685

Delta R.T. 0.00 min

Lab File: BF108820.D

Acq: 6 Sep 2018 12:31

Instrument :

BNA_F

ClientSampled :

EP1-SUT-UST-11

Tot Ion: 99 Resp: 1297674

Ion Ratio Lower Upper

99 100

42 19.1 14.5 21.7

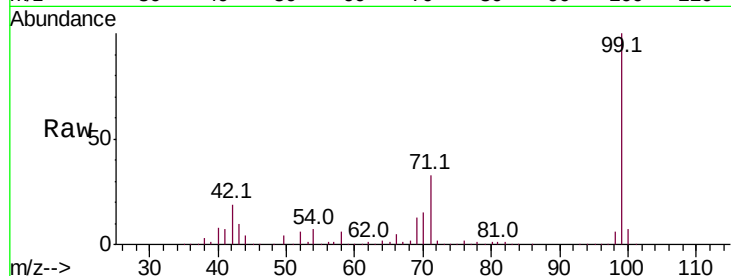
71 33.3 25.4 38.0

Manual Integrations

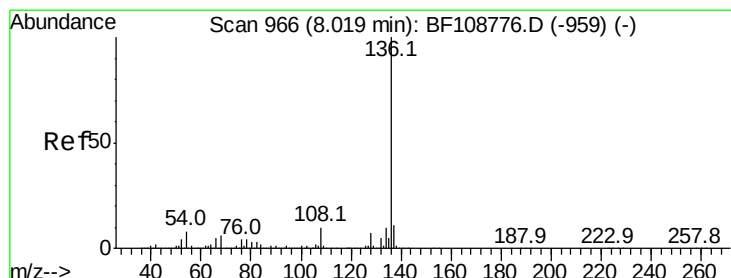
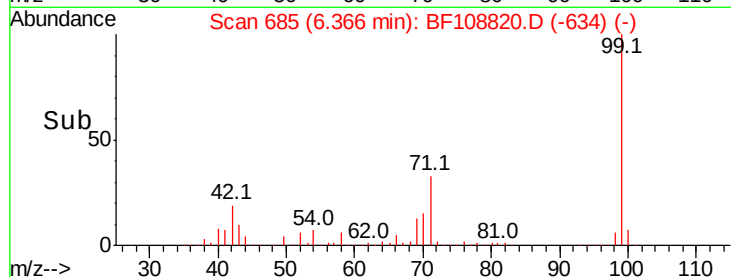
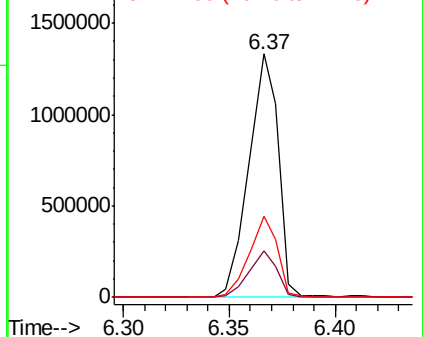
APPROVED

Sohil

9/6/2018 4:46:24 PM



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: 8.02 min Scan# 966

Delta R.T. 0.00 min

Lab File: BF108820.D

Acq: 6 Sep 2018 12:31

Tgt Ion: 136 Resp: 844328

Ion Ratio Lower Upper

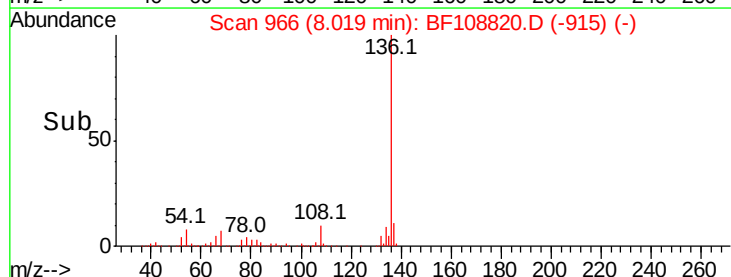
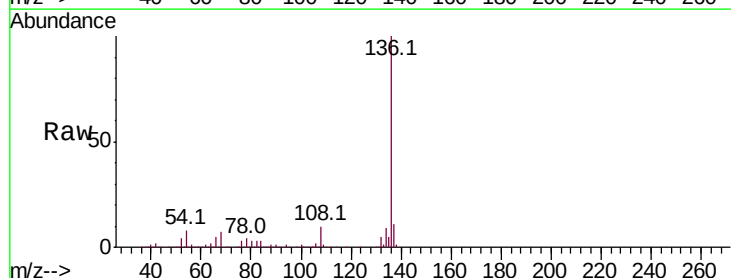
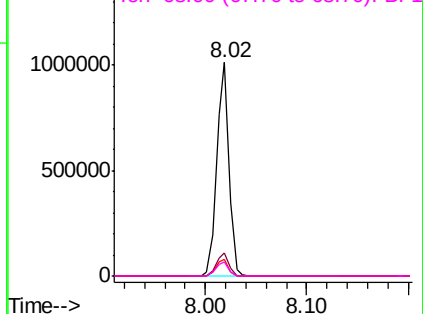
136 100

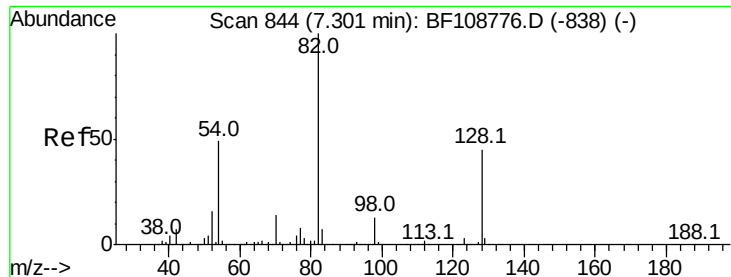
137 11.0 8.9 13.3

54 7.6 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





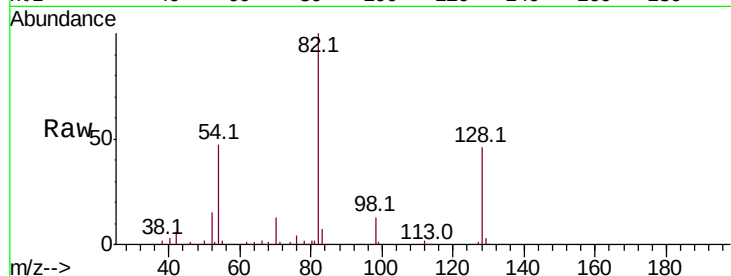
#23
Nitrobenzene-d5
Concen: 56.145 ng
RT: 7.30 min Scan# 843
Delta R.T. -0.01 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Instrument :
BNA_F
ClientSampleId :
EP1-SUT-UST-11

Tot Ion	Ratio	Resp	Lower	Upper
82	100	757489		
128	45.8		36.1	54.1
54	47.1		41.4	62.2

Manual Integrations
APPROVED

Sohil
9/6/2018 4:46:24 PM

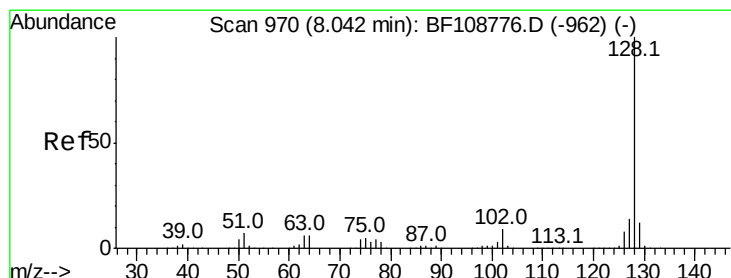
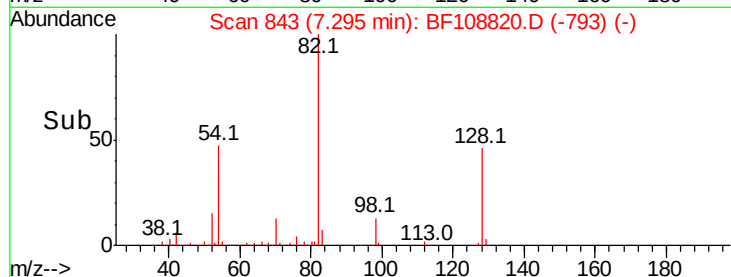
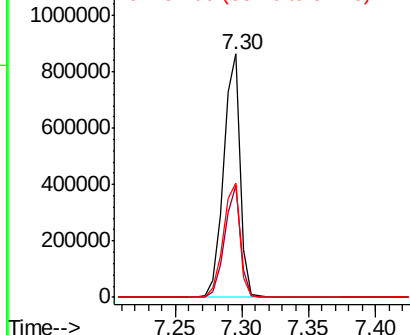


Abundance

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: 2.746 ng
RT: 8.04 min Scan# 969
Delta R.T. -0.01 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

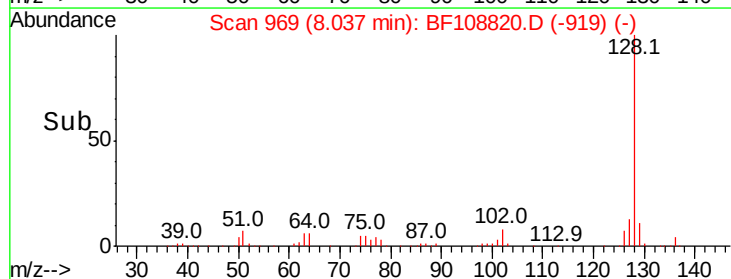
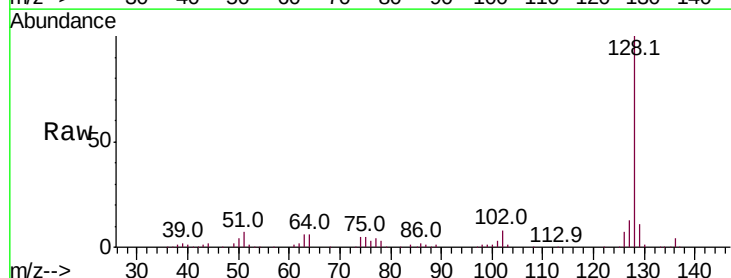
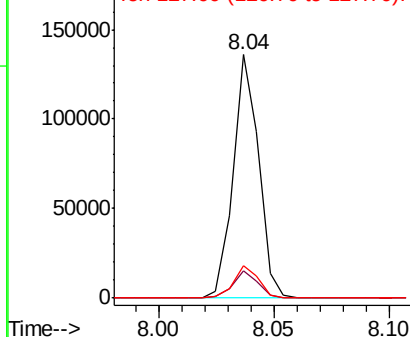
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	104311		
129	11.5		8.8	13.2
127	13.2		10.9	16.3

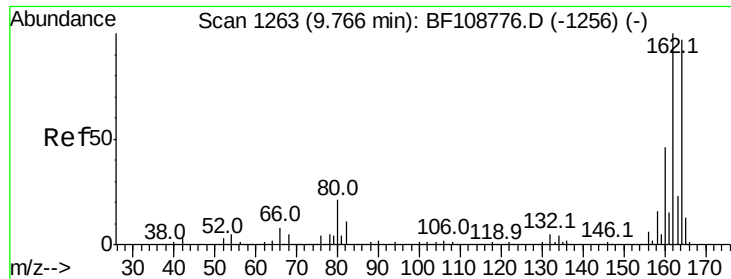
Abundance

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





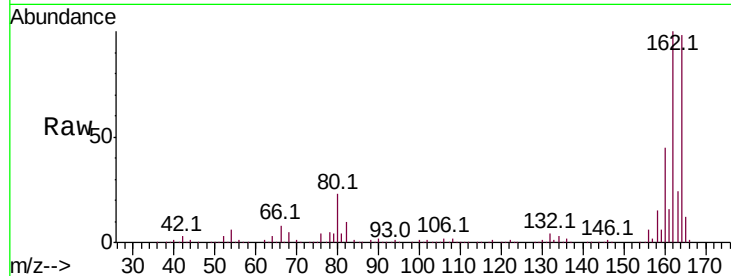
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.77 min Scan# 1263
 Delta R.T. 0.00 min
 Lab File: BF108820.D
 Acq: 6 Sep 2018 12:31

Instrument :
 BNA_F
 ClientSampleId :
 EP1-SUT-UST-11

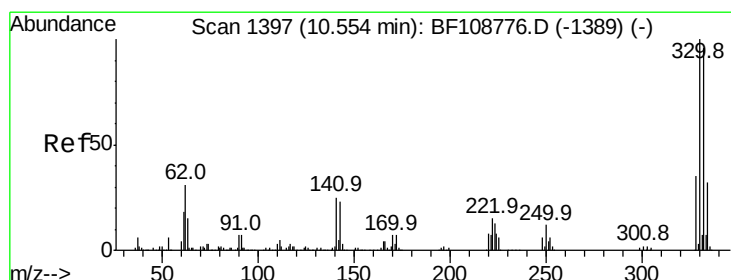
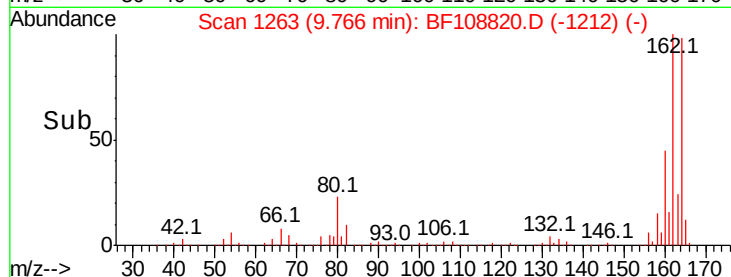
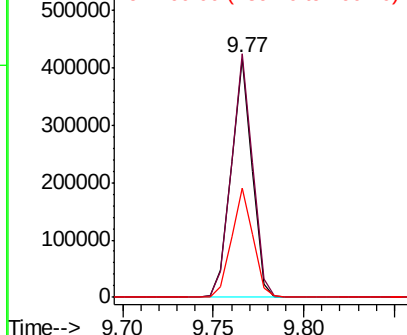
Tot Ion	Ratio	Lower	Upper
164	100		
162	101.9	86.1	129.1
160	45.8	38.3	57.5

Manual Integrations
 APPROVED

Sohil
 9/6/2018 4:46:24 PM

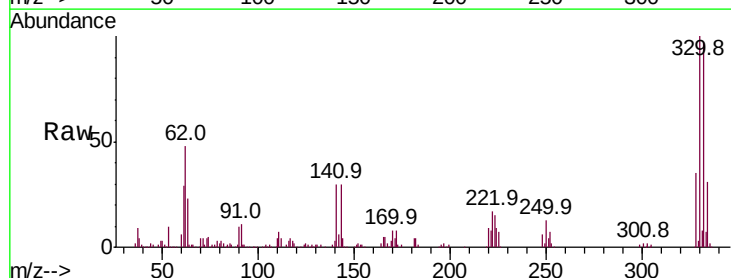


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

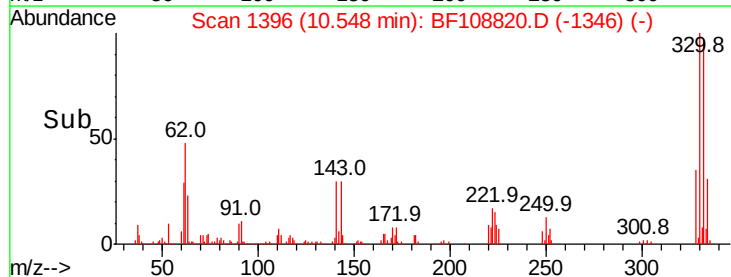
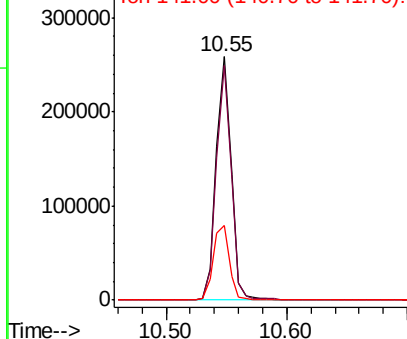


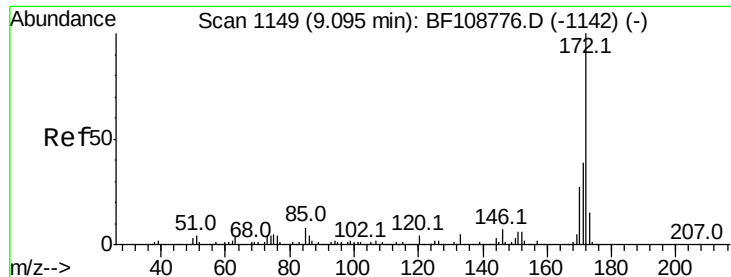
#41
 2,4,6-Tribromophenol
 Concen: 69.245 ng
 RT: 10.55 min Scan# 1396
 Delta R.T. -0.01 min
 Lab File: BF108820.D
 Acq: 6 Sep 2018 12:31

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.0	77.0	115.6
141	33.2	29.9	44.9



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





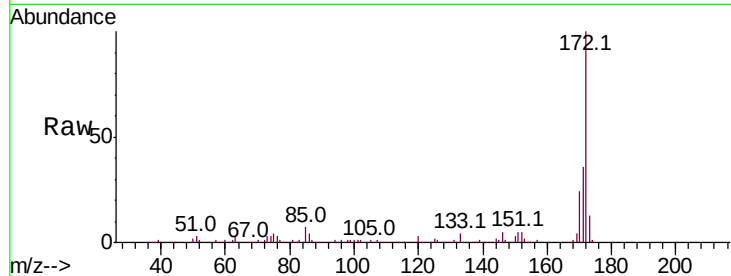
#44
2-Fluorobiphenyl
Concen: 65.099 ng
RT: 9.10 min Scan# 1149
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Instrument :
BNA_F
ClientSampled :
EP1-SUT-UST-11

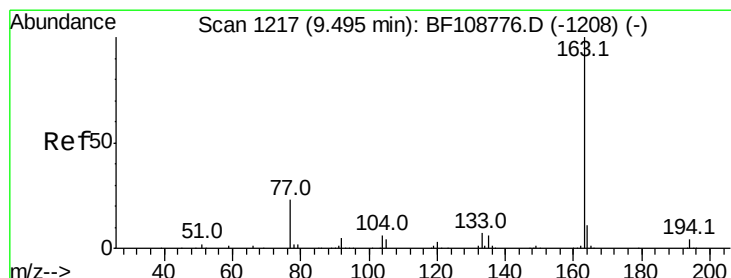
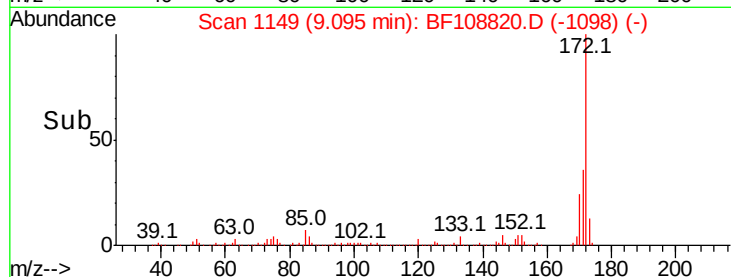
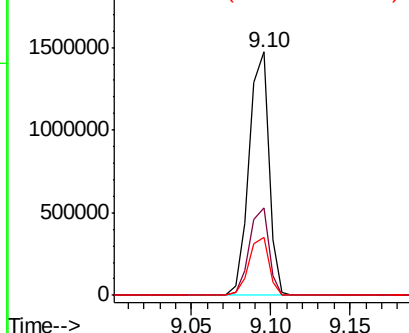
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.7	44.5
170	24.0	19.6	29.4

Manual Integrations
APPROVED

Sohil
9/6/2018 4:46:24 PM

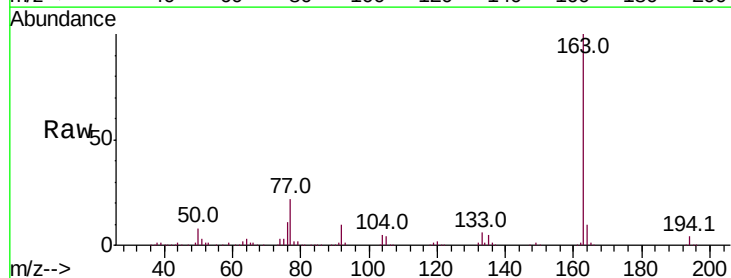


Abundance Ion 172.00 (171.70 to 172.70): E
2000000 Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

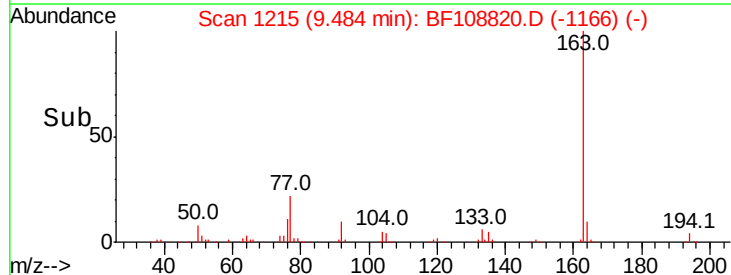
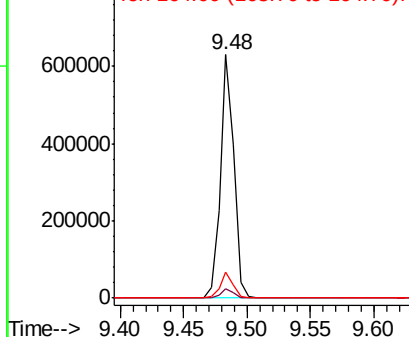


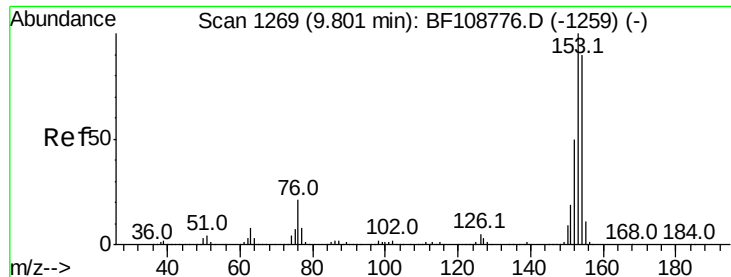
#49
Dimethylphthalate
Concen: 20.103 ng
RT: 9.48 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.7	4.1
164	10.5	8.2	12.2



Abundance Ion 163.00 (162.70 to 163.70): E
800000 Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.553 ng

RT: 9.80 min Scan# 1268

Delta R.T. -0.01 min

Lab File: BF108820.D

Acq: 6 Sep 2018 12:31

Instrument :

BNA_F

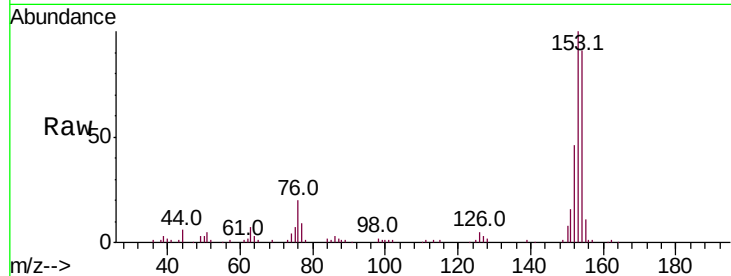
ClientSampleId :

EP1-SUT-UST-11

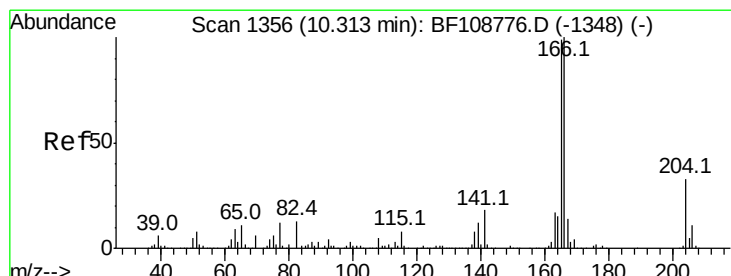
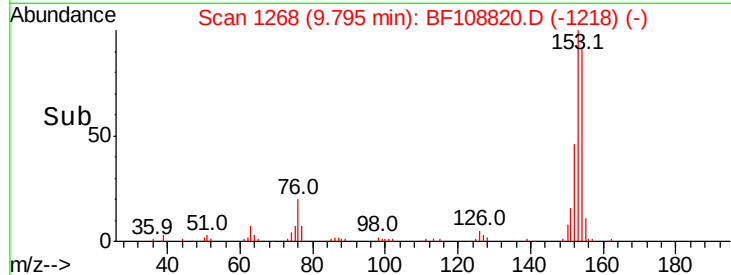
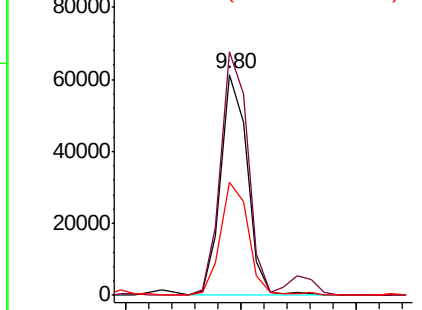
Tot Ion:	154	Resp:	49081
Ion Ratio	Lower	Upper	
154	100		
153	110.2	91.2	136.8
152	50.9	43.8	65.8

Manual Integrations
APPROVED

Sohil
9/6/2018 4:46:24 PM



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



#57

Fluorene

Concen: 2.144 ng

RT: 10.31 min Scan# 1355

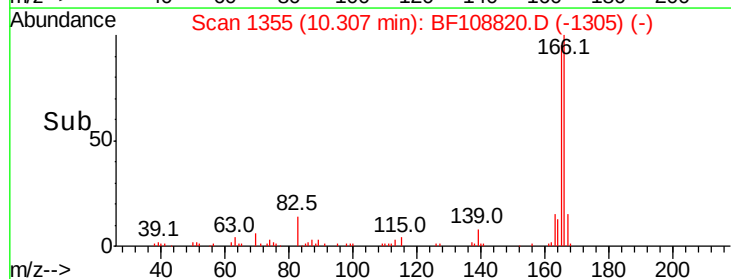
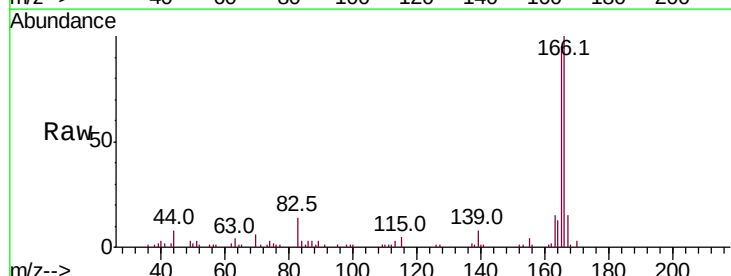
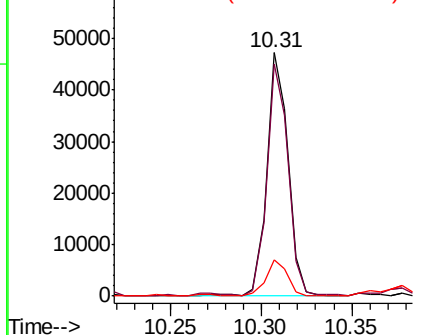
Delta R.T. -0.01 min

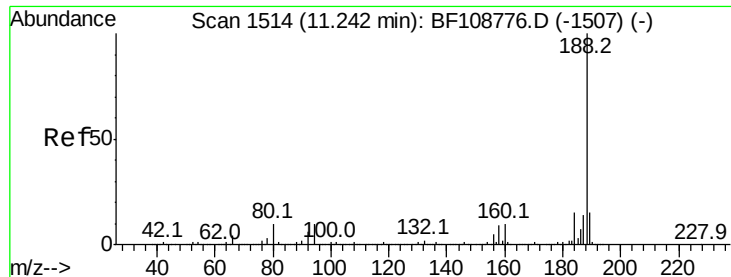
Lab File: BF108820.D

Acq: 6 Sep 2018 12:31

Tgt Ion:	166	Resp:	38550
Ion Ratio	Lower	Upper	
166	100		
165	95.4	79.8	119.8
167	14.8	10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





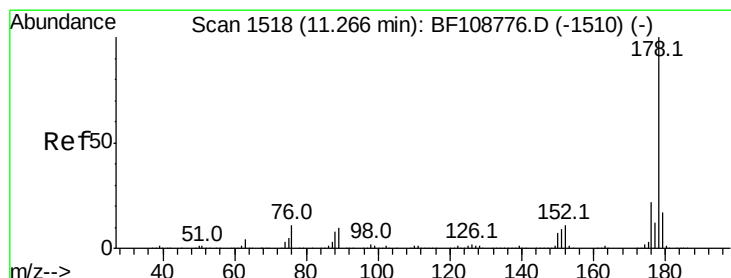
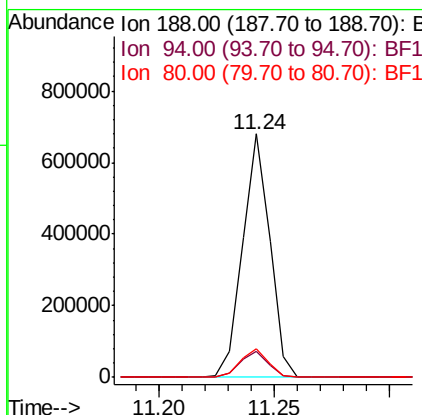
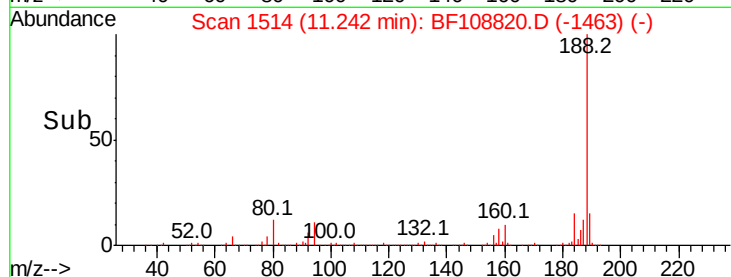
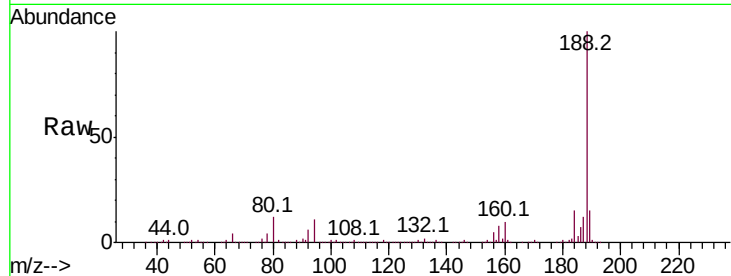
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1514
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Instrument :
BNA_F
ClientSampleId :
EP1-SUT-UST-11

Tot Ion	Ratio	Resp	Lower	Upper
188	100	561513		
94	10.9		8.5	12.7
80	11.6		9.2	13.8

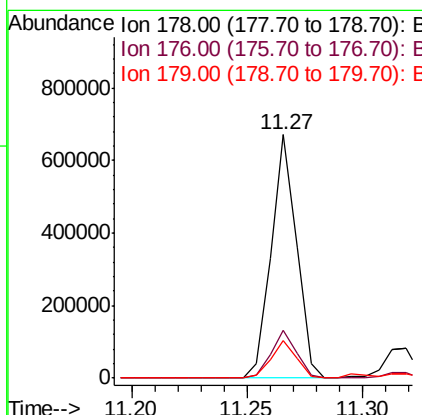
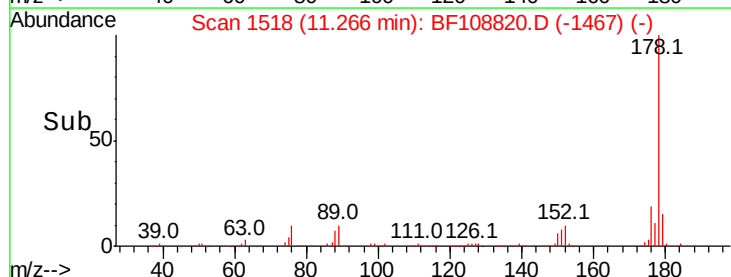
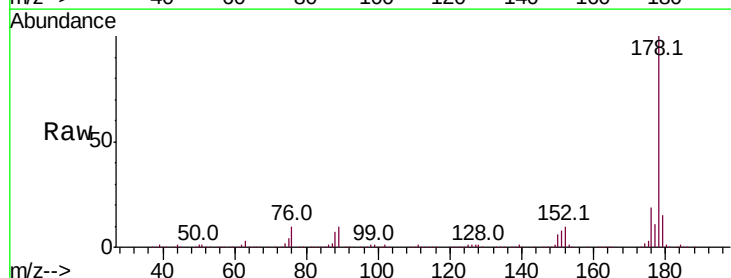
Manual Integrations
APPROVED

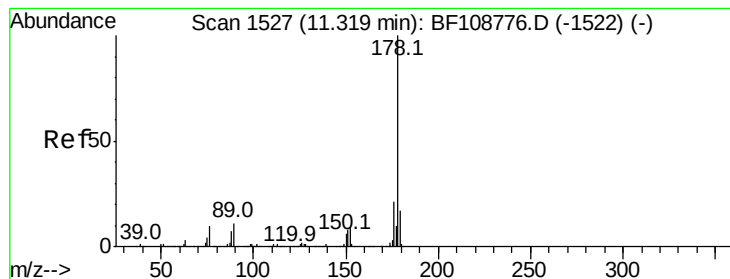
Sohil
9/6/2018 4:46:24 PM



#70
Phenanthrene
Concen: 19.072 ng
RT: 11.27 min Scan# 1518
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	511410		
176	19.5		15.8	23.8
179	15.3		13.0	19.6





#71

Anthracene

Concen: 2.859 ng

RT: 11.32 min Scan# 1527

Delta R.T. 0.00 min

Lab File: BF108820.D

Acq: 6 Sep 2018 12:31

Instrument :

BNA_F

ClientSampleId :

EP1-SUT-UST-11

Tot Ion:178 Resp: 73405

Ion Ratio Lower Upper

178 100

176 17.8 15.4 23.2

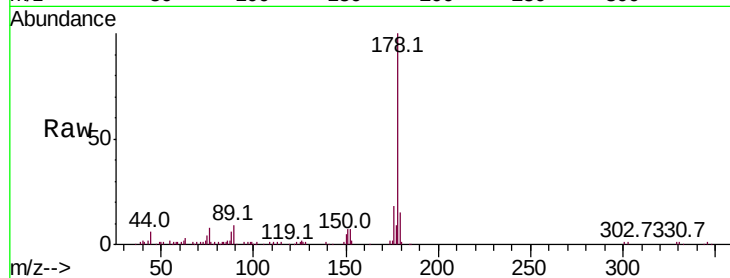
179 14.6 12.6 19.0

Manual Integrations

APPROVED

Sohil

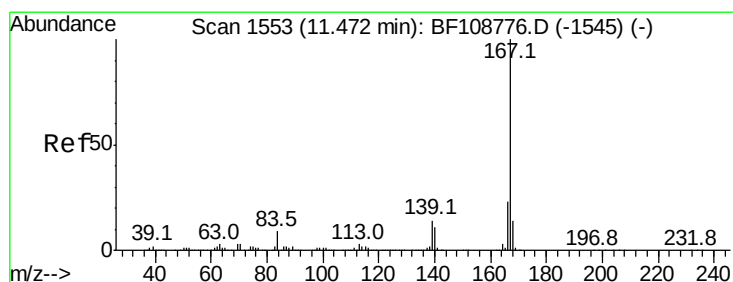
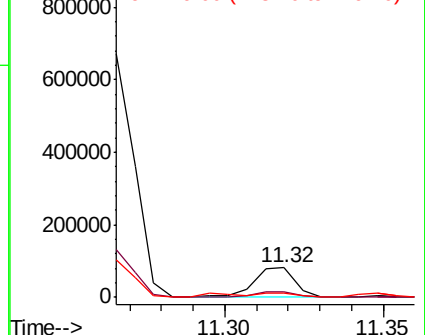
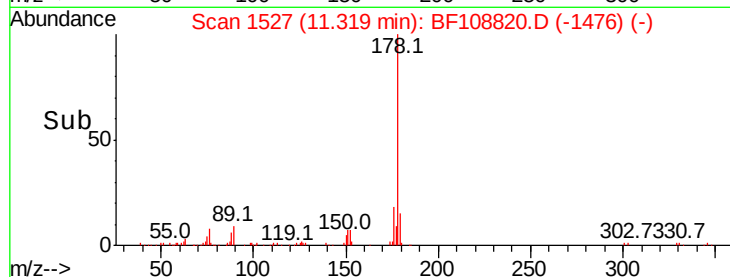
9/6/2018 4:46:24 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2.490 ng

RT: 11.47 min Scan# 1552

Delta R.T. -0.01 min

Lab File: BF108820.D

Acq: 6 Sep 2018 12:31

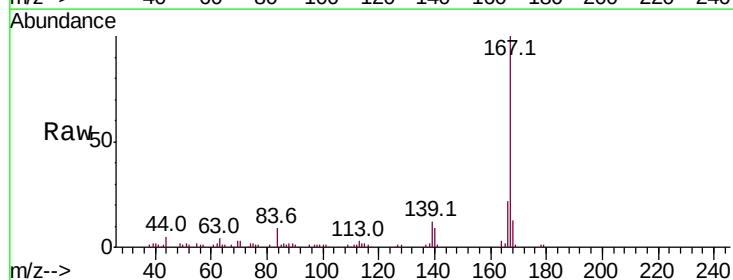
Tgt Ion:167 Resp: 67311

Ion Ratio Lower Upper

167 100

166 21.7 17.6 26.4

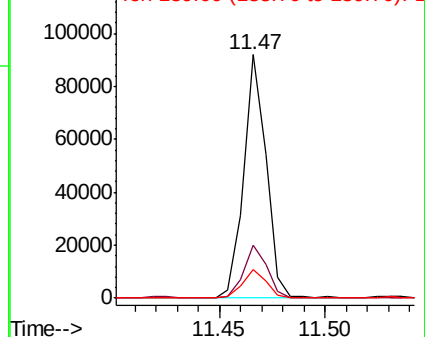
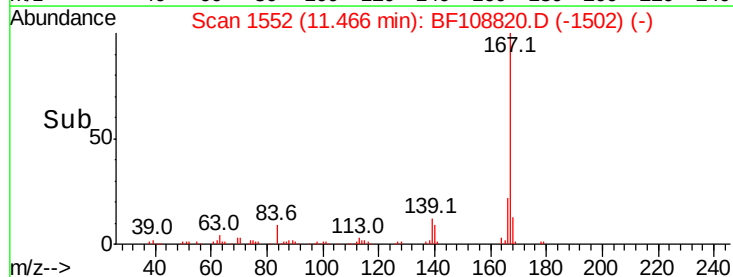
139 11.6 10.9 16.3

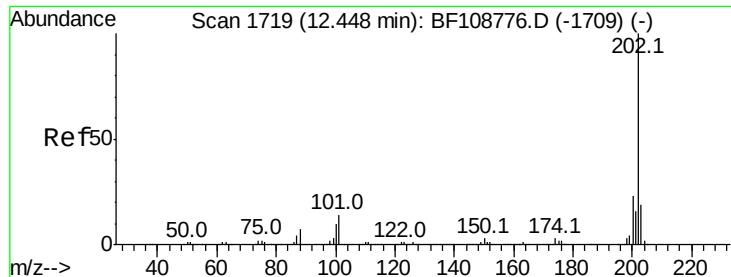


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





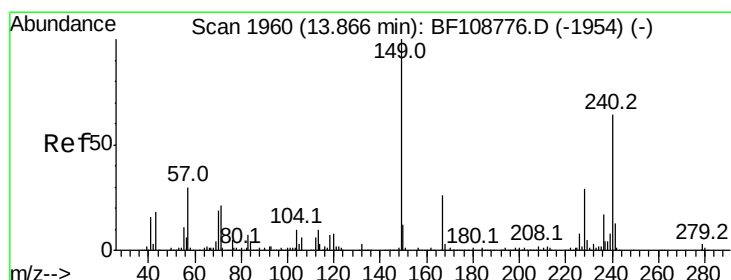
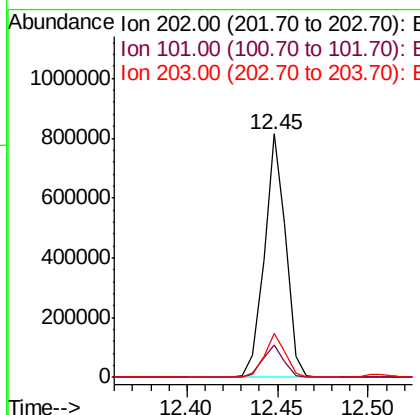
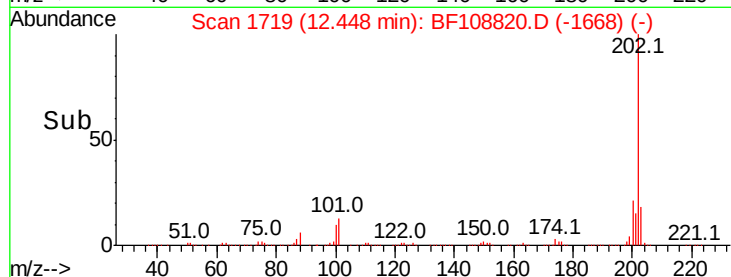
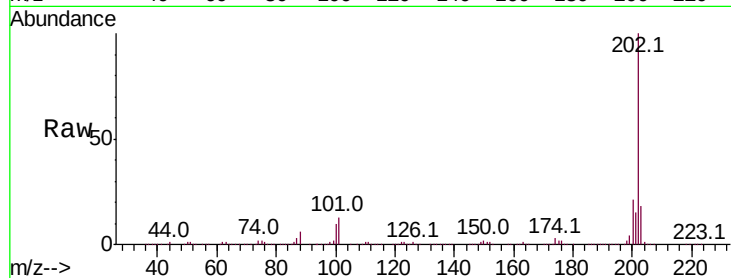
#74
Fluoranthene
Concen: 24.849 ng
RT: 12.45 min Scan# 1719
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Instrument :
BNA_F
ClientSampleId :
EP1-SUT-UST-11

Tot Ion	Ratio	Resp	Lower	Upper
202	100	659720		
101	13.3	0.0	34.1	
203	17.9	0.0	38.1	

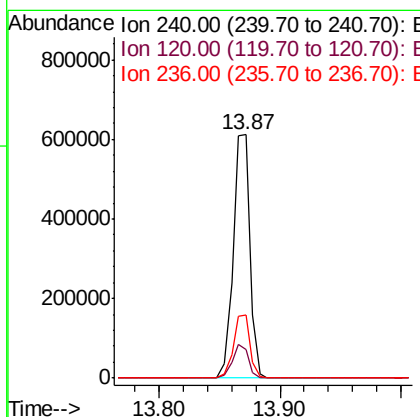
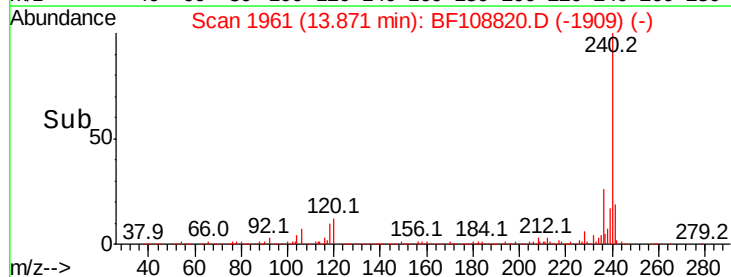
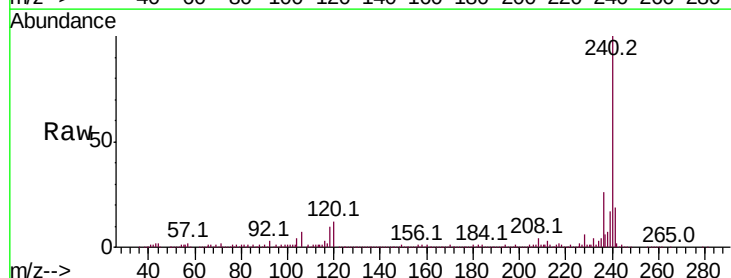
Manual Integrations
APPROVED

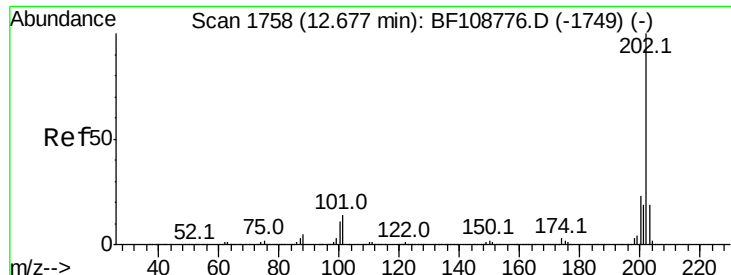
Sohil
9/6/2018 4:46:24 PM



#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.87 min Scan# 1961
Delta R.T. 0.01 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	591425		
120	11.8	9.5	14.3	
236	25.8	20.7	31.1	





#77

Pvrene

Concen: 12.383 ng

RT: 12.68 min Scan# 1758

Delta R.T. 0.00 min

Lab File: BF108820.D

Acq: 6 Sep 2018 12:31

Instrument :

BNA_F

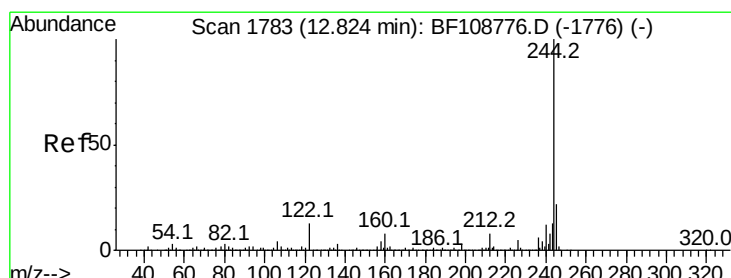
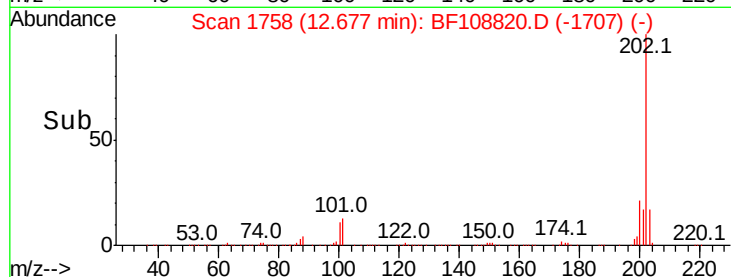
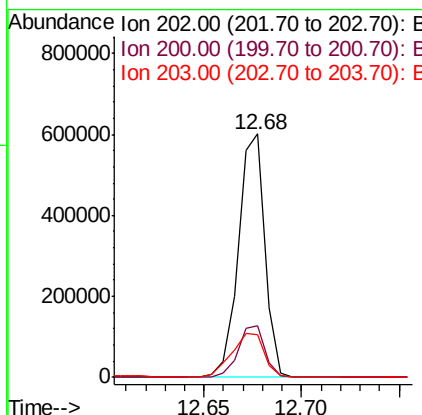
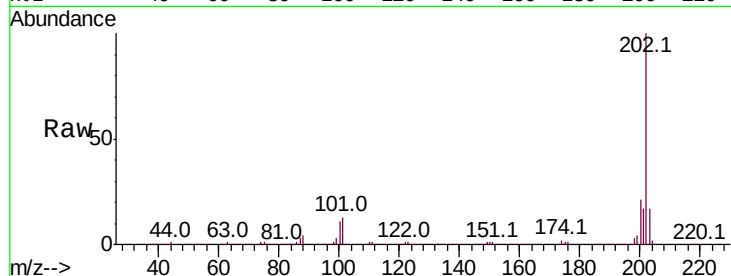
ClientSampleId :

EP1-SUT-UST-11

Tot Ion:	202	Resp:	563551
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.4	26.2
203	17.4	14.3	21.5

Manual Integrations
APPROVED

Sohil
9/6/2018 4:46:24 PM



#78

Terphenyl-d14

Concen: 45.489 ng

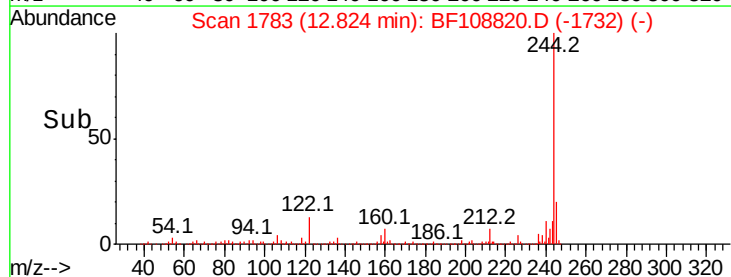
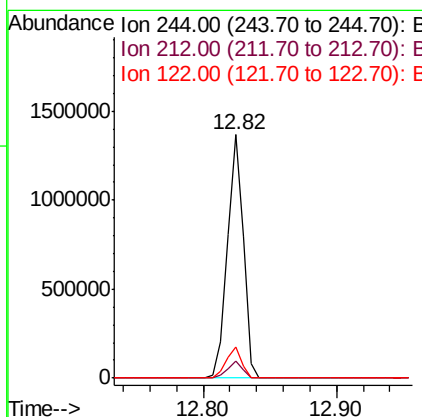
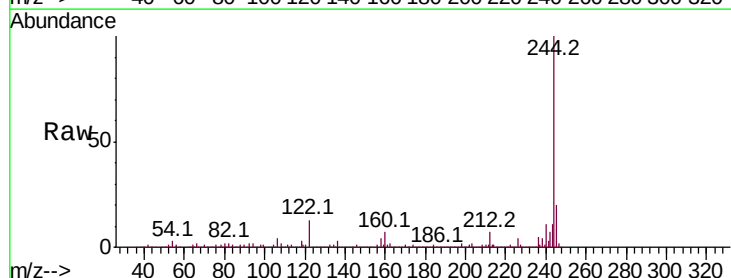
RT: 12.82 min Scan# 1783

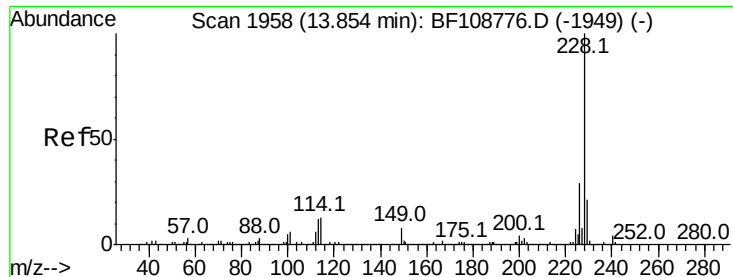
Delta R.T. 0.00 min

Lab File: BF108820.D

Acq: 6 Sep 2018 12:31

Tgt Ion:	244	Resp:	1153717
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.4	8.0
122	12.7	11.0	16.4





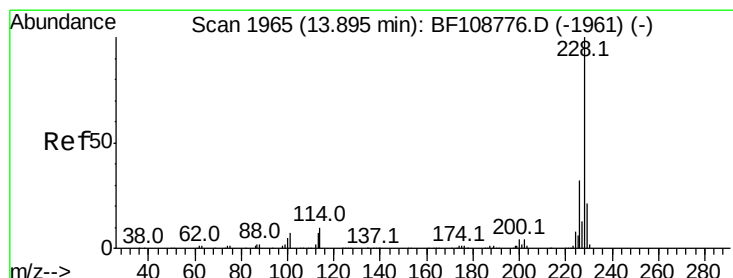
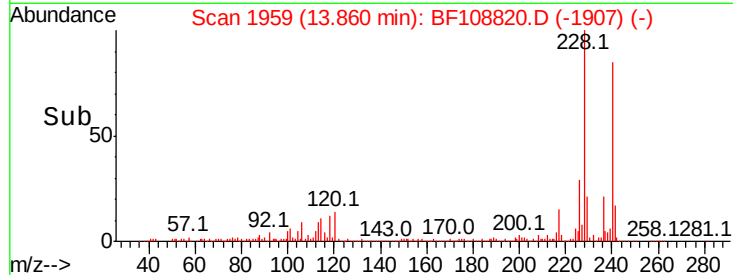
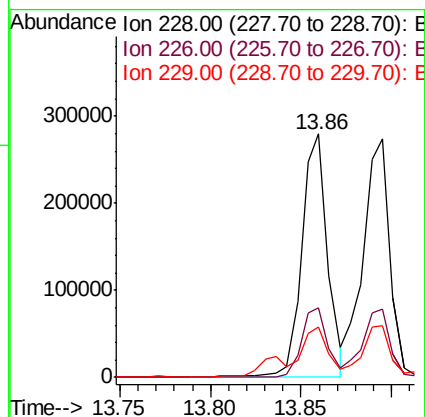
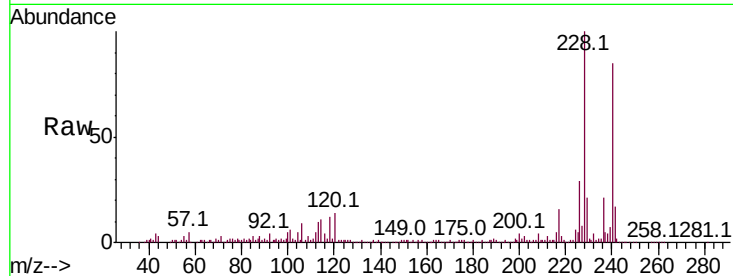
#80
Benzo(a)anthracene
Concen: 7.346 ng
RT: 13.86 min Scan# 1959
Delta R.T. 0.01 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Instrument :
BNA_F
ClientSampleId :
EP1-SUT-UST-11

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	33.8
229	20.8	15.8	23.6

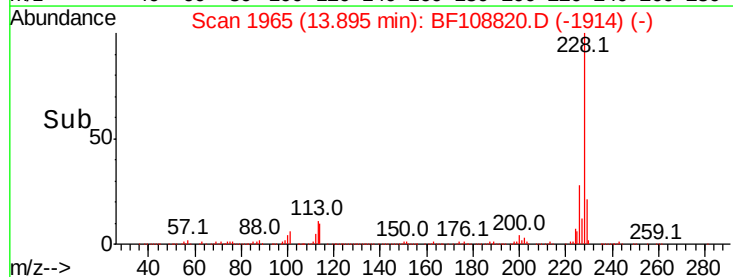
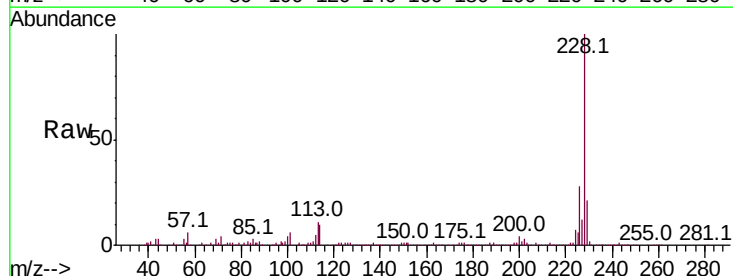
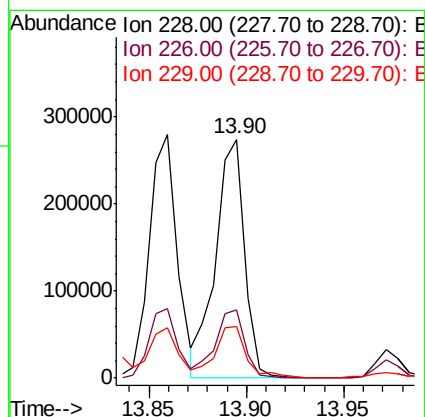
Manual Integrations
APPROVED

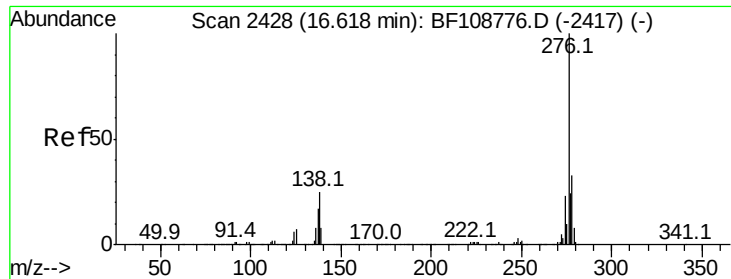
Sohil
9/6/2018 4:46:24 PM



#82
Chrysene
Concen: 7.666 ng
RT: 13.90 min Scan# 1965
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	25.0	37.6
229	21.4	16.2	24.4





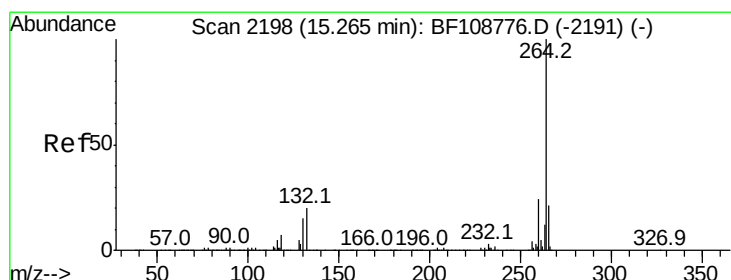
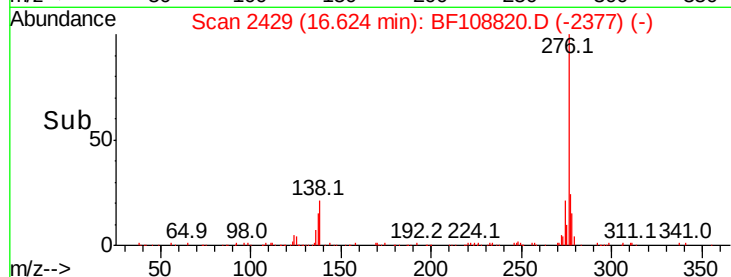
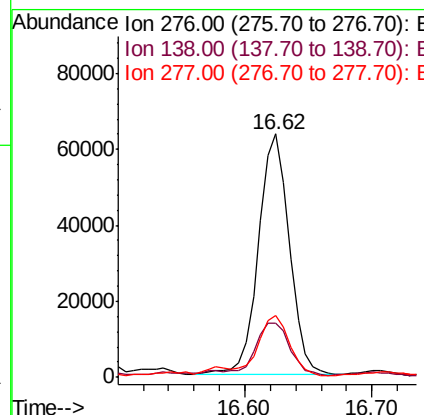
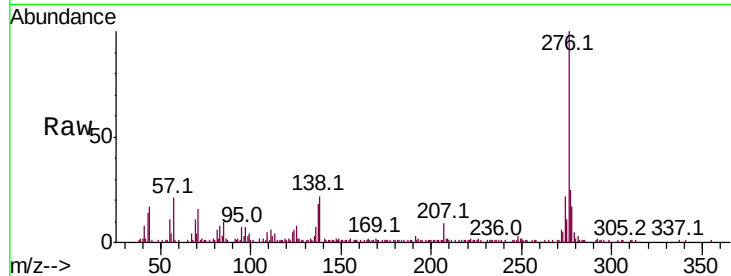
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.291 ng/ml
 RT: 16.62 min Scan# 2429
 Delta R.T. 0.01 min
 Lab File: BF108820.D
 Acq: 6 Sep 2018 12:31

Instrument :
 BNA_F
 ClientSampleId :
 EP1-SUT-UST-11

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	5.3	25.0	37.6#	
277	4.3	20.1	30.1#	

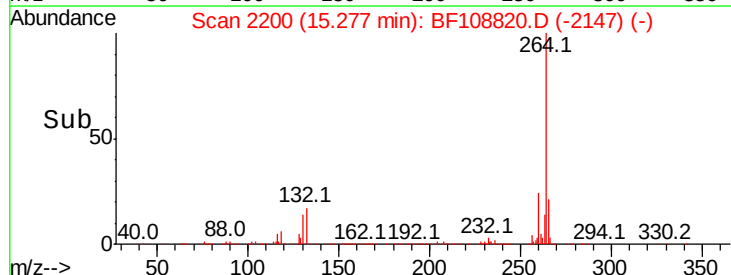
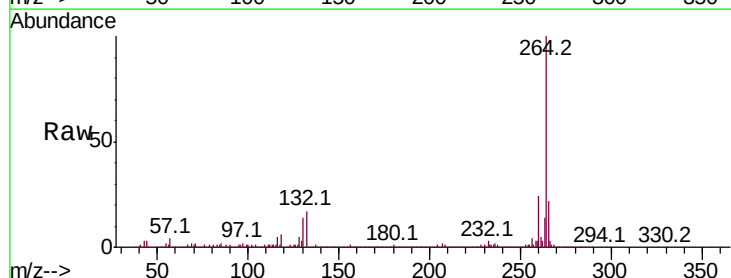
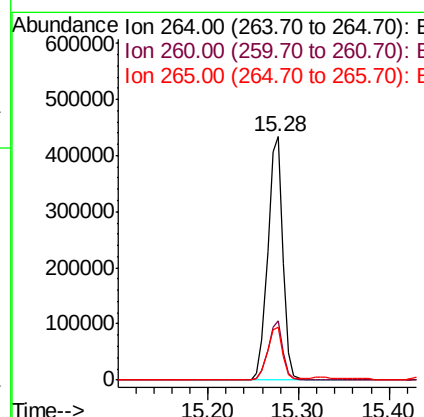
Manual Integrations
 APPROVED

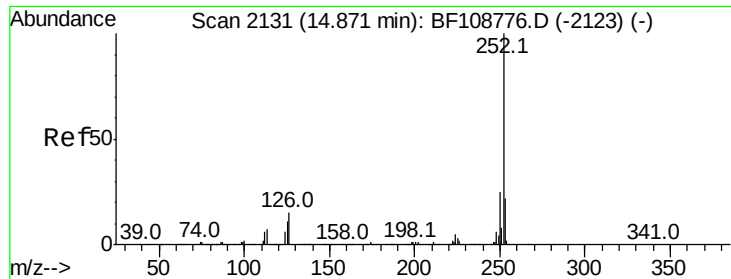
Sohil
 9/6/2018 4:46:24 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.28 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: BF108820.D
 Acq: 6 Sep 2018 12:31

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.1	19.2	28.8	
265	21.6	17.5	26.3	





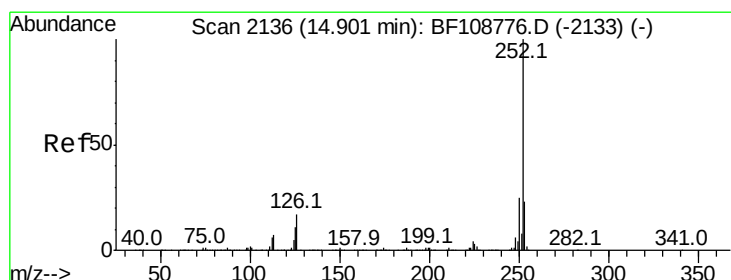
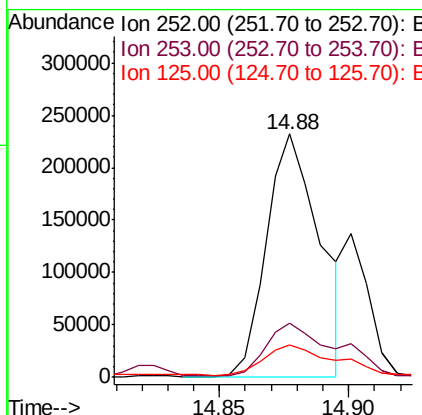
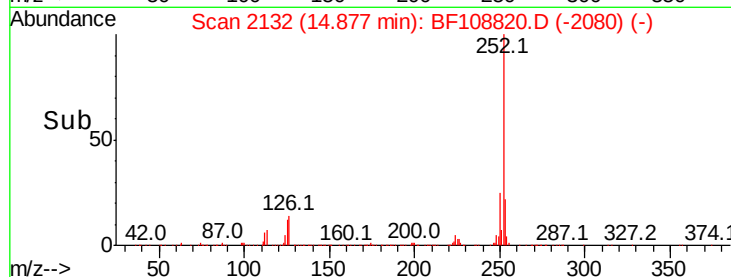
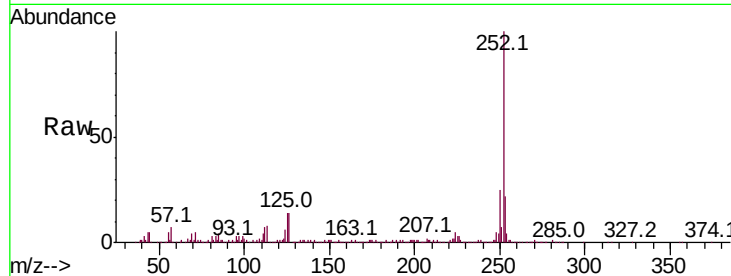
#87
Benzo(b)fluoranthene
Concen: 12.266 ng m
RT: 14.88 min Scan# 2132
Delta R.T. 0.01 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Instrument :
BNA_F
ClientSampleId :
EP1-SUT-UST-11

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	13.5	9.0	13.6

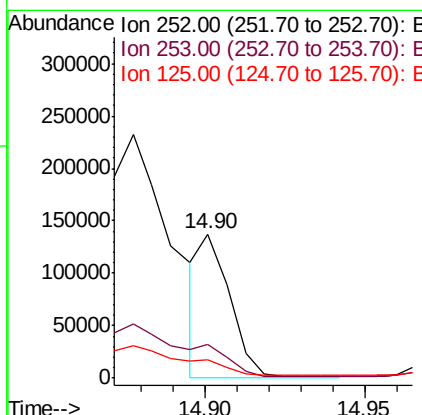
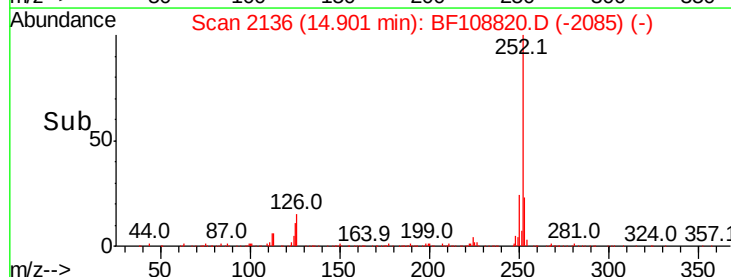
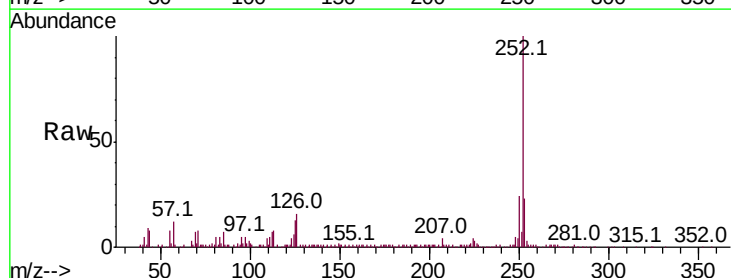
Manual Integrations
APPROVED

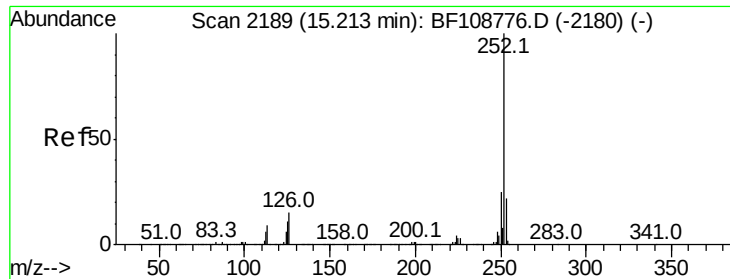
Sohil
9/6/2018 4:46:24 PM



#88
Benzo(k)fluoranthene
Concen: 3.627 ng m
RT: 14.90 min Scan# 2136
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	12.6	10.2	15.2





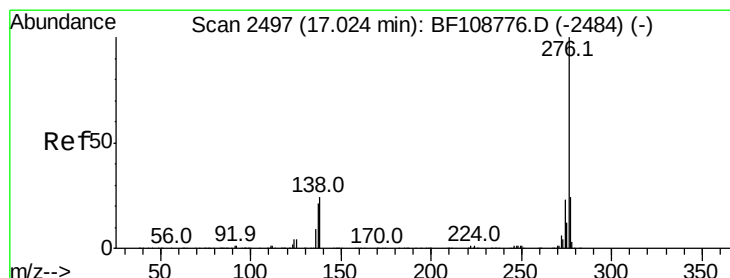
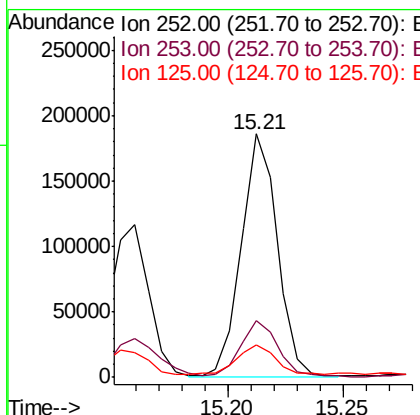
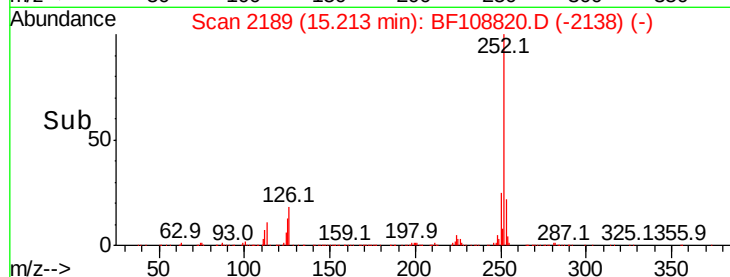
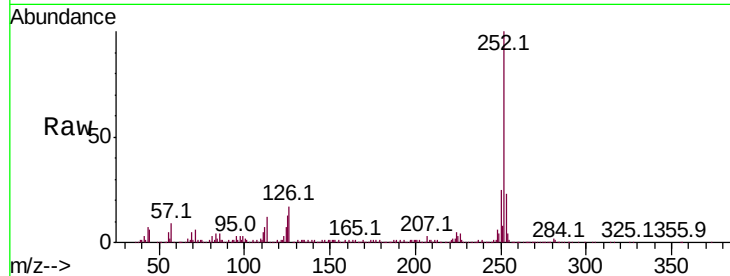
#89
Benzo(a)pyrene
Concen: 8.166 ng
RT: 15.21 min Scan# 2189
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Instrument :
BNA_F
ClientSampleId :
EP1-SUT-UST-11

Tot Ion:	252	Resp:	202623
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.1	25.7
125	13.3	9.8	14.6

Manual Integrations
APPROVED

Sohil
9/6/2018 4:46:24 PM



#91
Benzo(g,h,i)perylene
Concen: 4.442 ng
RT: 17.02 min Scan# 2497
Delta R.T. 0.00 min
Lab File: BF108820.D
Acq: 6 Sep 2018 12:31

Tgt Ion:	276	Resp:	97243
Ion Ratio	Lower	Upper	
276	100		
277	24.9	17.9	26.9
138	28.7	21.8	32.8

