

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080218\
 Data File : BF107933.D
 Acq On : 3 Aug 2018 3:59
 Operator : JU/SJ
 Sample : J4285-13DL 20X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 KG-PIT-4DL

Manual Integrations
 APPROVED

Sohil
 8/3/2018 12:53:44 PM

Quant Time: Aug 03 06:00:32 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	100387	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	584828	20.00	ng	-0.01
38) Acenaphthene-d10	9.99	164	244548	20.00	ng	-0.02
63) Phenanthrene-d10	11.49	188	457249	20.00	ng	-0.01
75) Chrysene-d12	14.14	240	393349	20.00	ng	-0.01
86) Perylene-d12	15.67	264	345018	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.78	112	805	0.14	ng	0.19
7) Phenol-d6	6.77	99	20613m	2.65	ng	0.16
23) Nitrobenzene-d5	7.71	82	20787m	2.05	ng	0.18
41) 2,4,6-Tribromophenol	10.80	330	5558	1.67	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	40184	2.29	ng	0.00
78) Terphenyl-d14	13.07	244	43249	2.38	ng	-0.01
Target Compounds						
31) Naphthalene	8.26	128	67392	2.479	ng	96
51) Acenaphthene	10.02	154	35282	2.334	ng	94
70) Phenanthrene	11.51	178	568463	26.182	ng	98
71) Anthracene	11.57	178	164677	6.576	ng	97
72) Carbazole	11.76	167	80743	3.263	ng	98
74) Fluoranthene	12.71	202	934894	36.653	ng	97
77) Pyrene	12.94	202	835031	29.481	ng	97
80) Benzo(a)anthracene	14.13	228	504739	22.652	ng	98
82) Chrysene	14.17	228	482190	20.064	ng	99
85) Indeno(1,2,3-cd)pyrene	17.25	276	158049	8.646	ng	# 88
87) Benzo(b)fluoranthene	15.22	252	447089m	26.274	ng	
88) Benzo(k)fluoranthene	15.24	252	226247m	10.830	ng	
89) Benzo(a)pyrene	15.61	252	306897	17.470	ng	96
90) Dibenzo(a,h)anthracene	17.25	278	36096m	2.356	ng	
91) Benzo(a,h,i)perylene	17.72	276	146263	9.865	ng	94

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

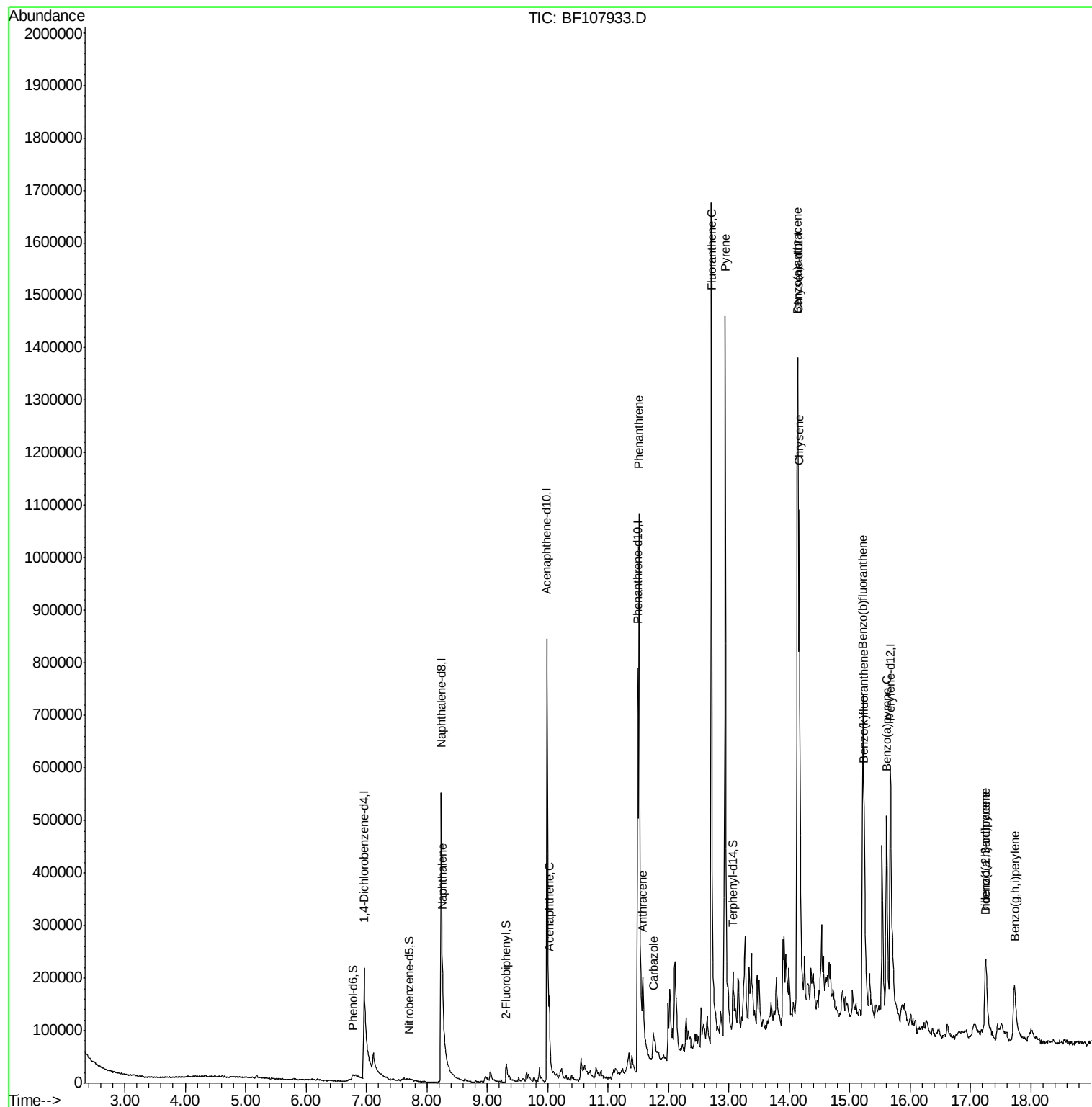
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080218\
Data File : BF107933.D
Acq On : 3 Aug 2018 3:59
Operator : JU/SJ
Sample : J4285-13DL 20X
Misc :
ALS Vial : 29 Sample Multiplier: 1

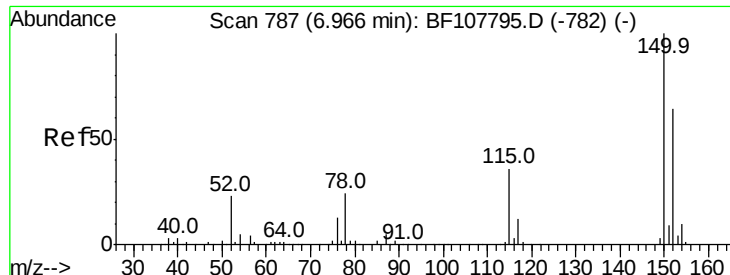
Instrument :
BNA_F
ClientSampled :
KG-PIT-4DL

Manual Integrations
APPROVED

Sohil
8/3/2018 12:53:44 PM

Quant Time: Aug 03 06:00:32 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 30 17:48:53 2018
Response via : Initial Calibration





#1

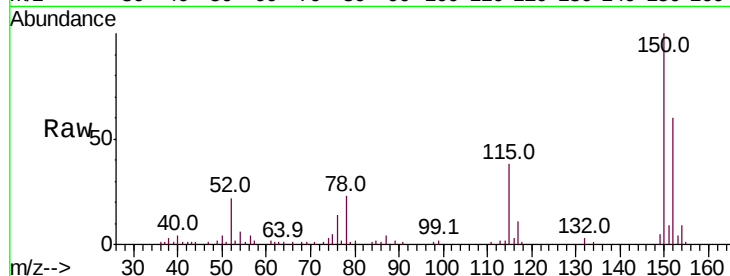
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampled :
KG-PIT-4DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	165.3	124.6	186.8
115	62.8	50.1	75.1

Manual Integrations
APPROVED

Sohil
8/3/2018 12:53:44 PM

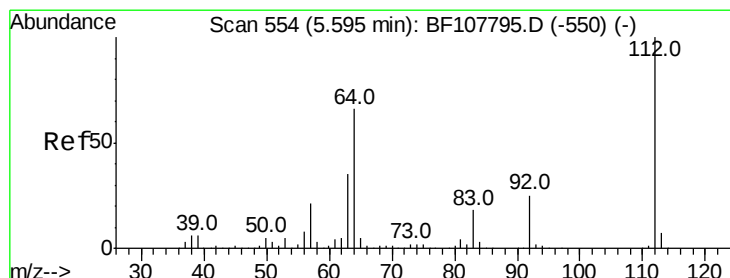
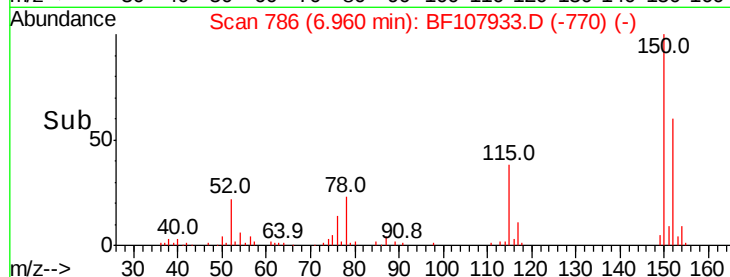
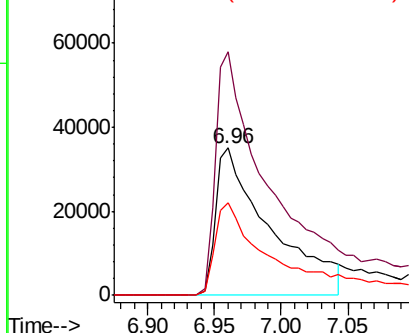


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

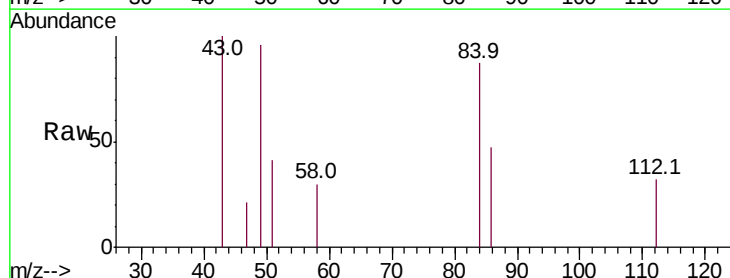
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 0.136 ng
RT: 5.78 min Scan# 586
Delta R.T. 0.19 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	0.0	47.9	71.9#
63	0.0	23.7	35.5#

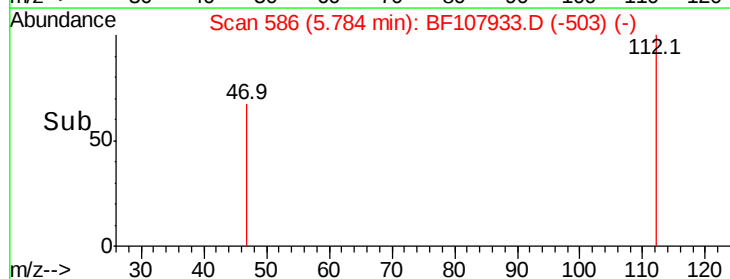
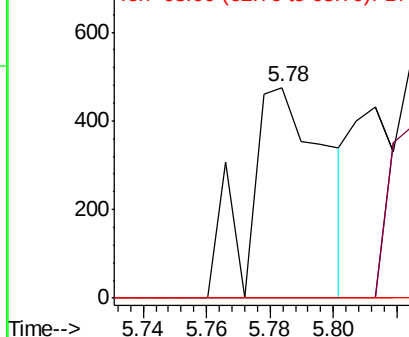


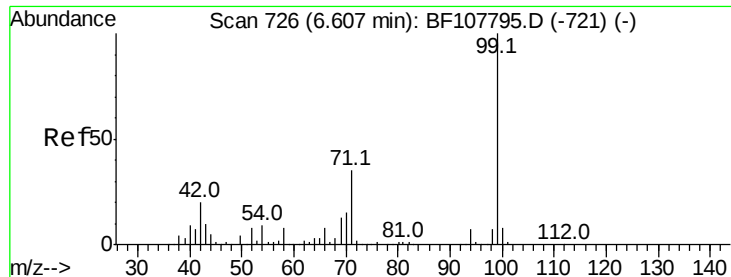
Abundance

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

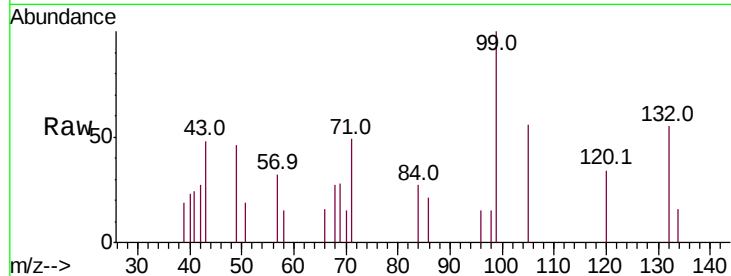
Concen: 2.648 ng/ml
 RT: 6.77 min Scan# 753
 Delta R.T. 0.16 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

Instrument :
 BNA_F
 ClientSampled :
 KG-PIT-4DL

Tot Ion	Ratio	Lower	Upper
99	100		
42	26.9	14.5	21.7#
71	49.1	25.4	38.0#

Manual Integrations
 APPROVED

Sohil
 8/3/2018 12:53:44 PM

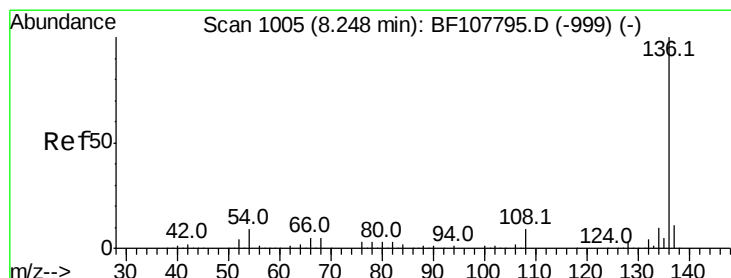
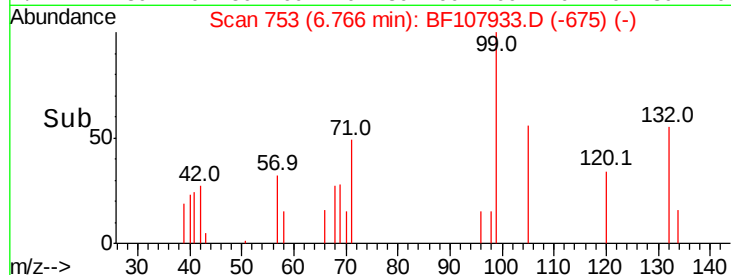
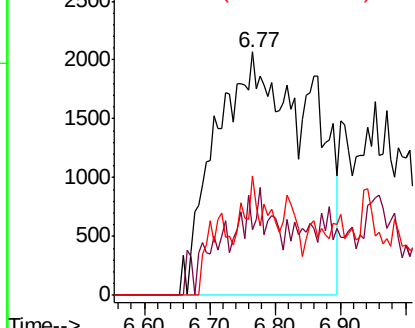


Abundance

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: 8.24 min Scan# 1003
 Delta R.T. -0.01 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	8.7	6.6	9.8
68	5.5	5.0	7.4

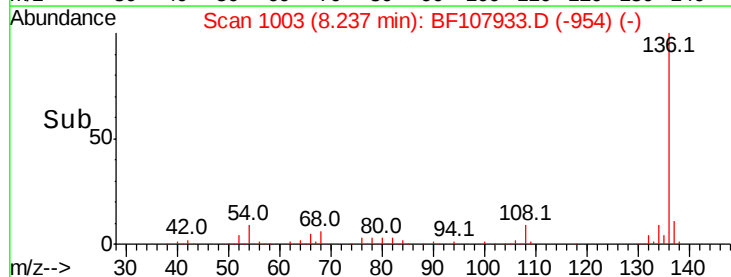
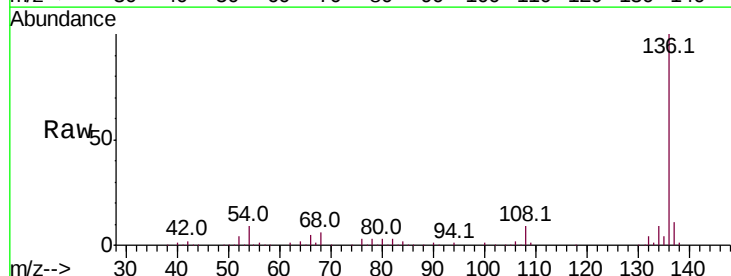
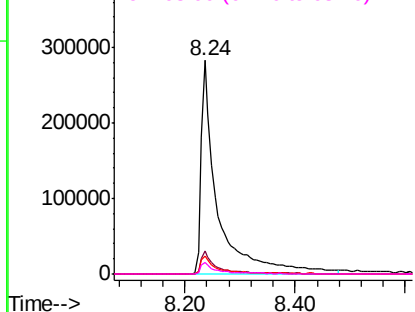
Abundance

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





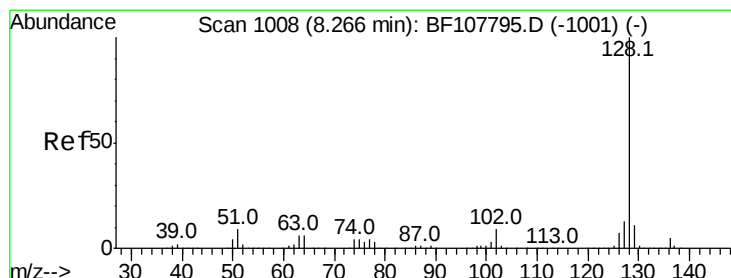
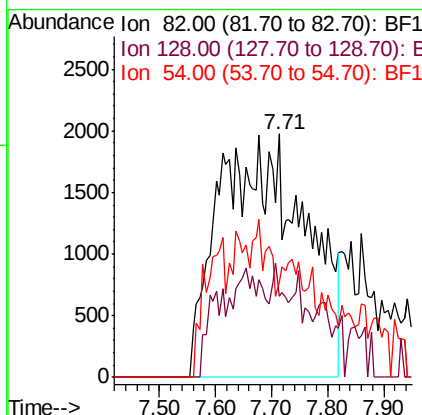
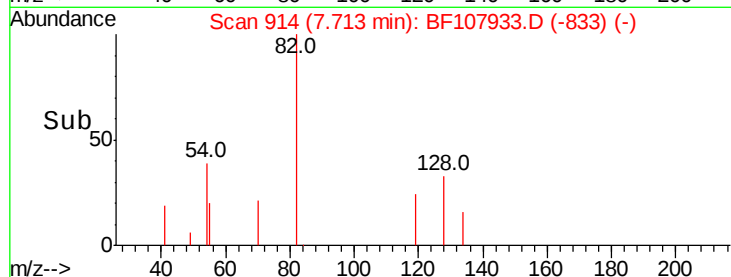
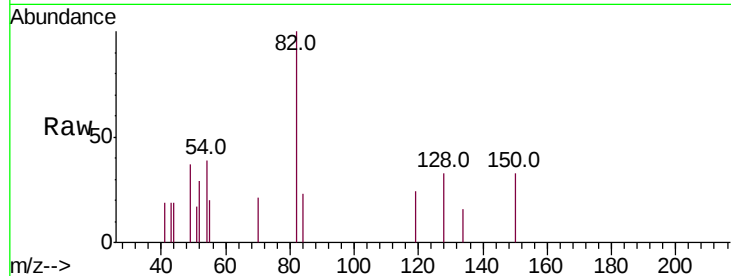
#23
Nitrobenzene-d5
Concen: 2.048 ng/ml
RT: 7.71 min Scan# 914
Delta R.T. 0.18 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	33.1	36.1	54.1#
54	38.9	41.4	62.2#

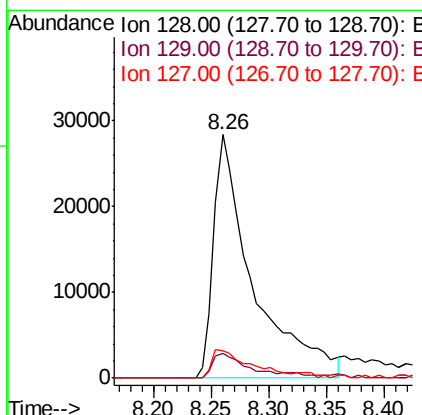
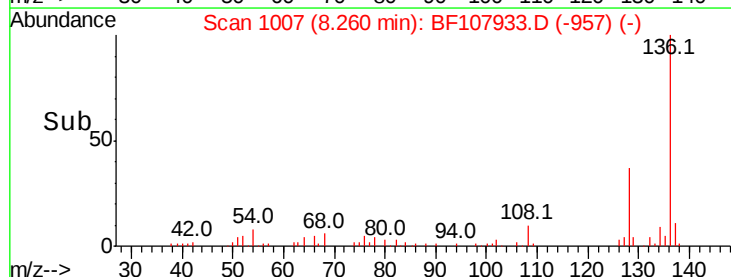
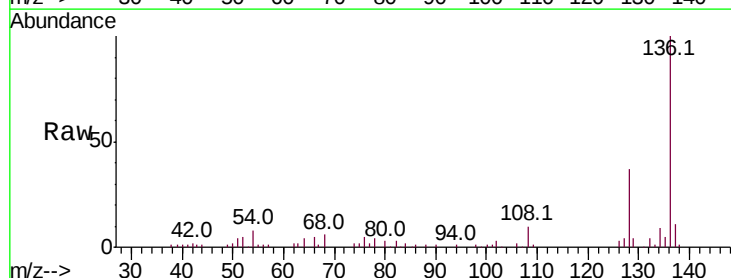
Manual Integrations
APPROVED

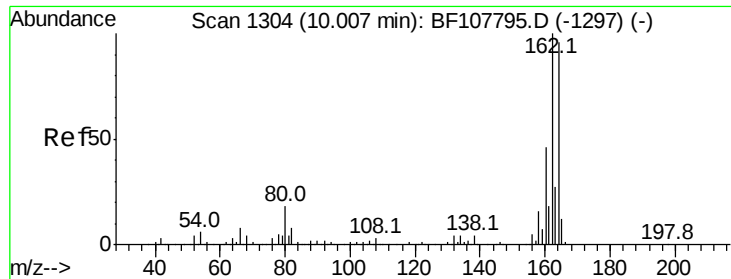
Sohil
8/3/2018 12:53:44 PM



#31
Naphthalene
Concen: 2.479 ng
RT: 8.26 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.2	8.8	13.2
127	11.5	10.9	16.3





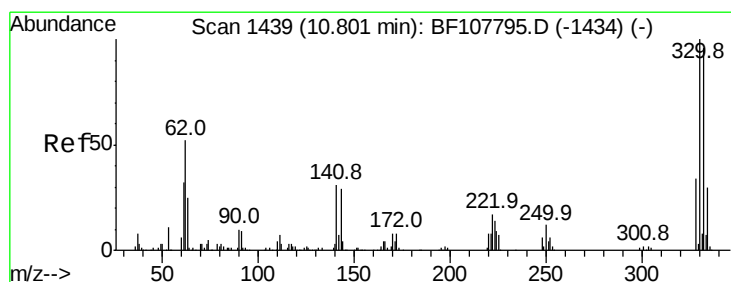
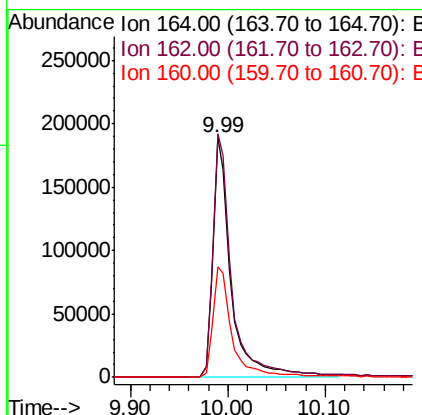
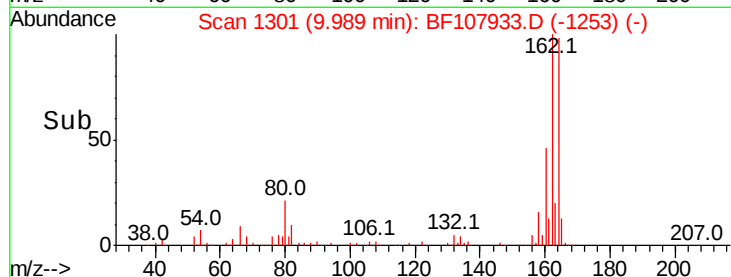
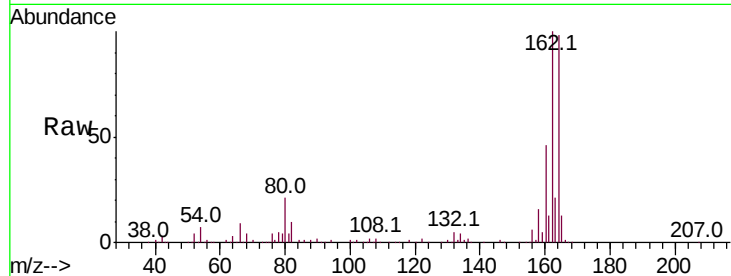
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.99 min Scan# 1301
Delta R.T. -0.02 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100	244548		
162	101.7	86.1	129.1	
160	46.3	38.3	57.5	

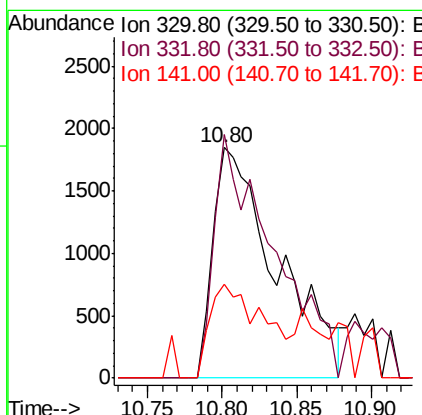
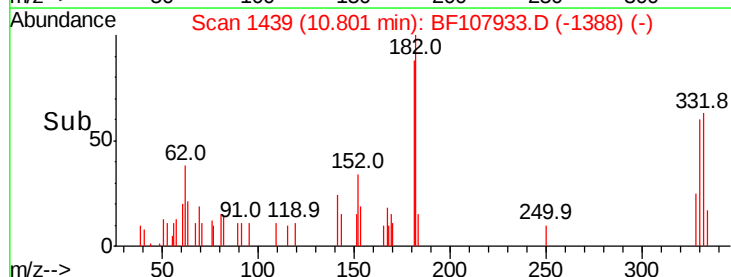
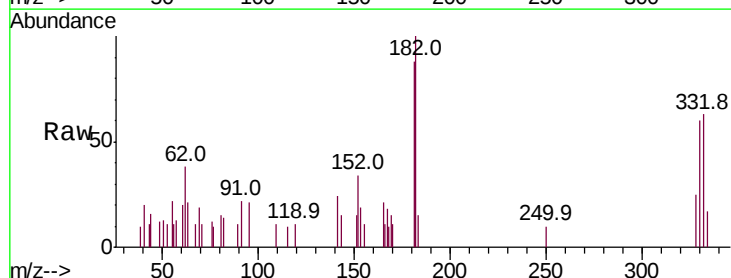
Manual Integrations
APPROVED

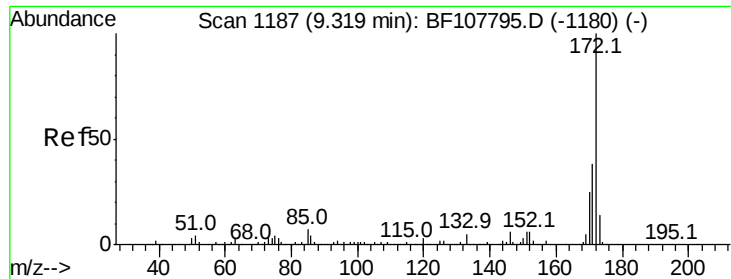
Sohil
8/3/2018 12:53:44 PM



#41
2,4,6-Tribromophenol
Concen: 1.673 ng
RT: 10.80 min Scan# 1439
Delta R.T. 0.00 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	5558		
332	97.0	77.0	115.6	
141	33.6	29.9	44.9	





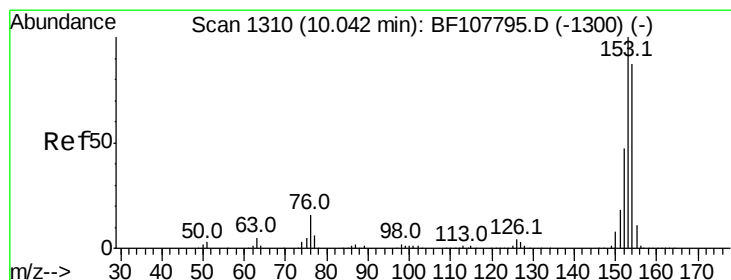
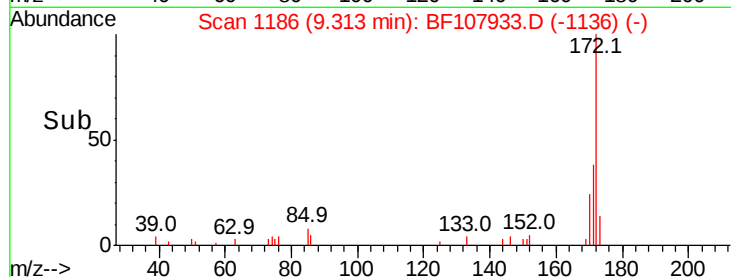
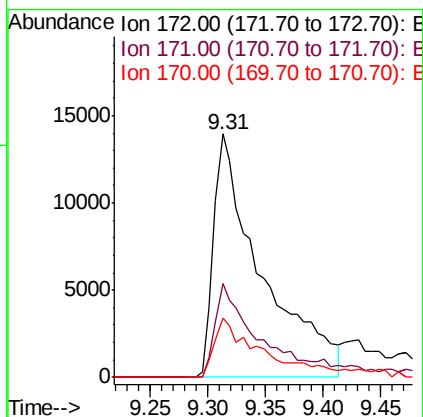
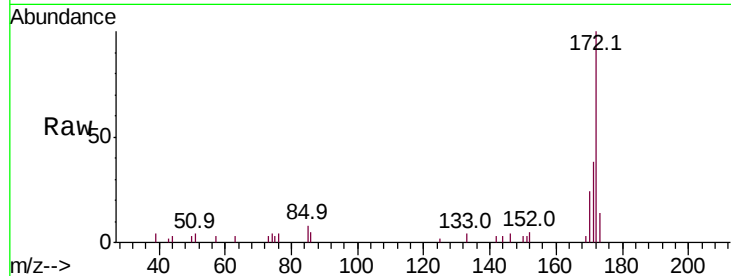
#44
2-Fluorobiphenyl
Concen: 2.290 ng
RT: 9.31 min Scan# 1186
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	38.4	29.7	44.5
170	24.4	19.6	29.4

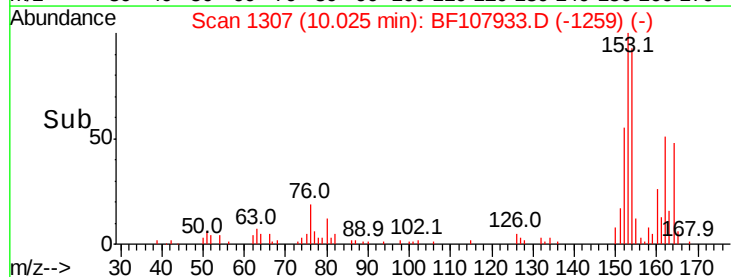
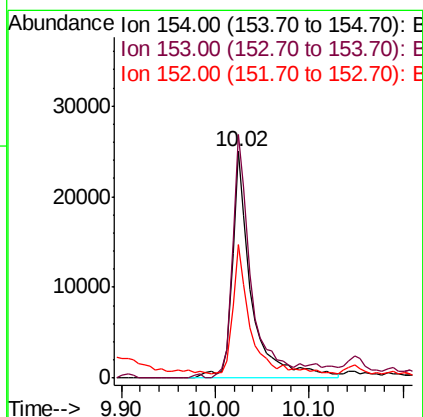
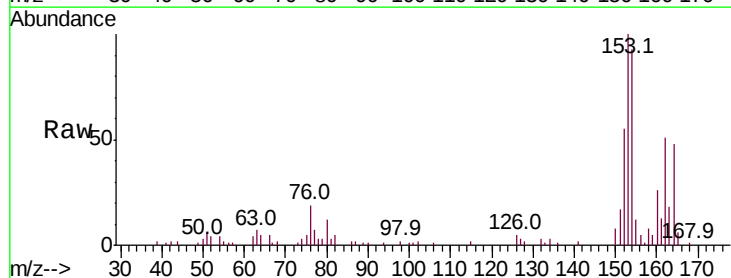
Manual Integrations
APPROVED

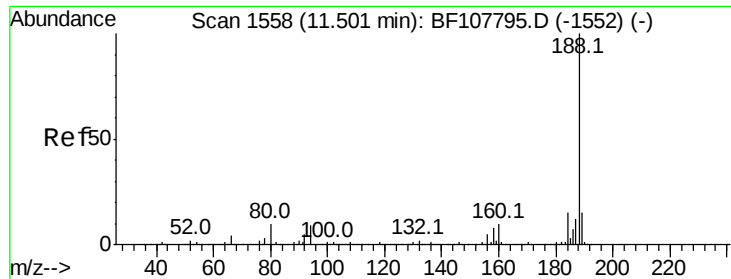
Sohil
8/3/2018 12:53:44 PM



#51
Acenaphthene
Concen: 2.334 ng
RT: 10.02 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
154	100		
153	107.5	91.2	136.8
152	59.1	43.8	65.8





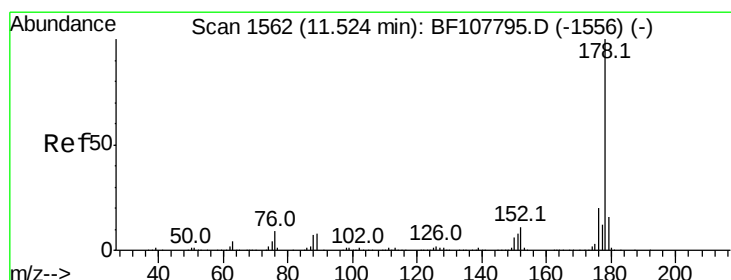
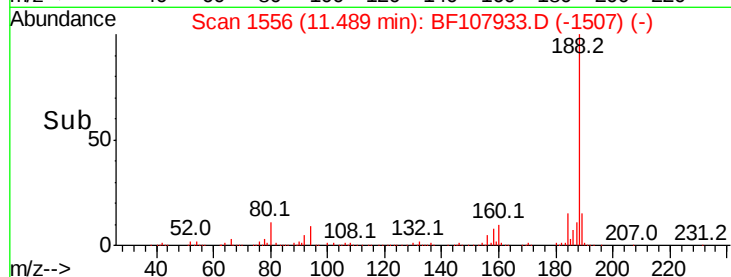
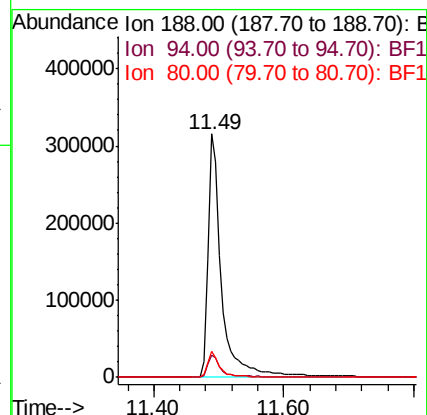
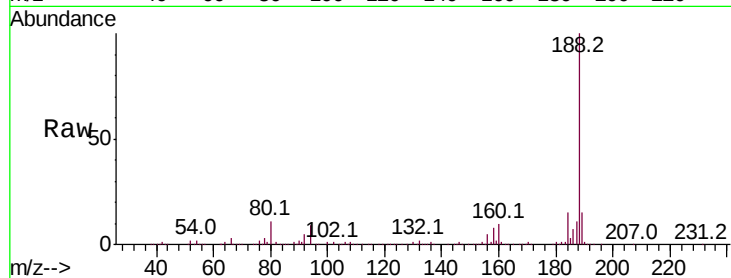
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	457249		
94	9.2		8.5	12.7
80	10.7		9.2	13.8

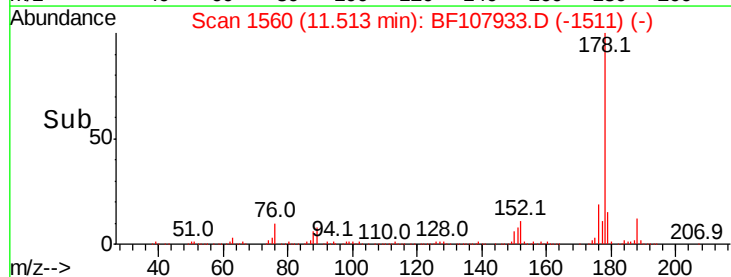
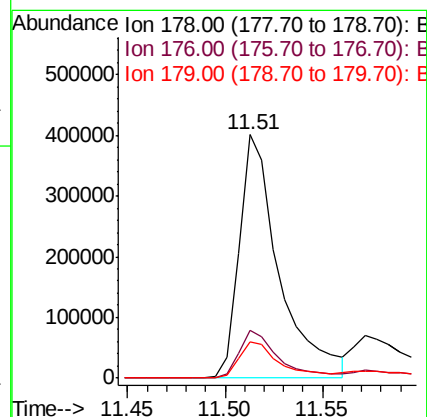
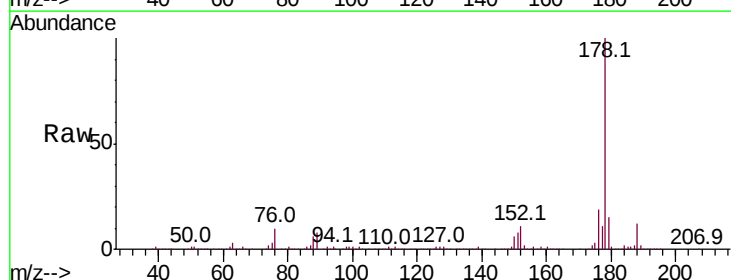
Manual Integrations
APPROVED

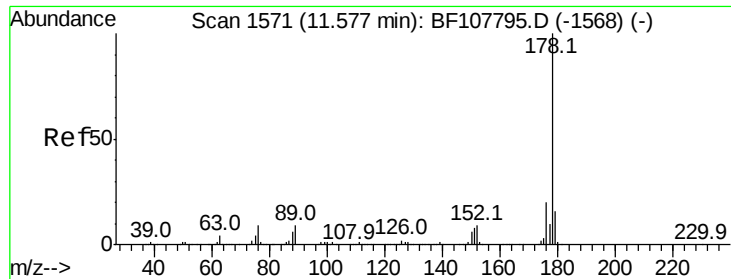
Sohil
8/3/2018 12:53:44 PM



#70
Phenanthrene
Concen: 26.182 ng
RT: 11.51 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	568463		
176	19.4		15.8	23.8
179	15.1		13.0	19.6





#71

Anthracene

Concen: 6.576 ng

RT: 11.57 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

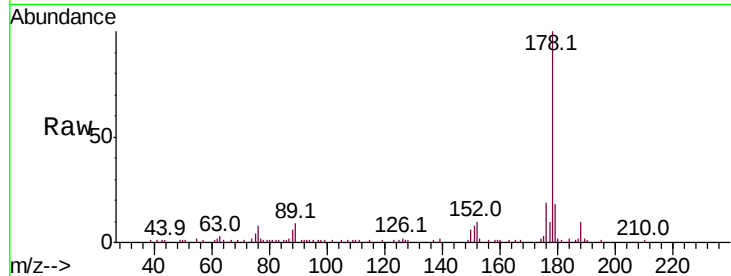
ClientSampled :

KG-PIT-4DL

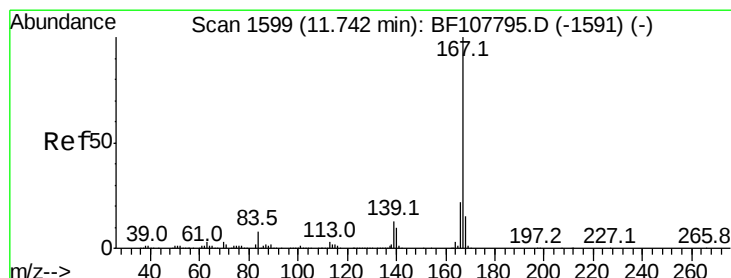
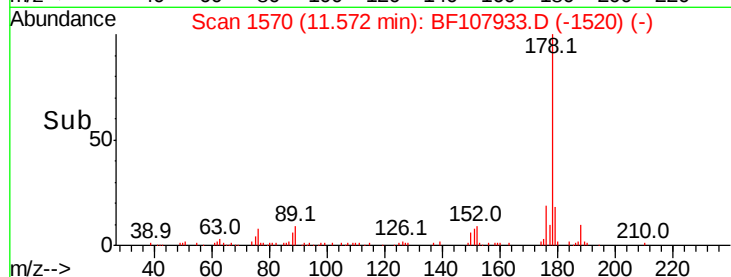
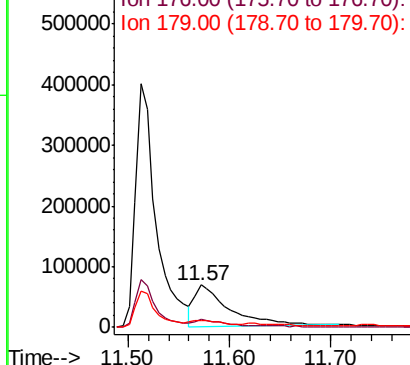
Tot Ion:	178	Resp:	164677
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.4	23.2
179	17.7	12.6	19.0

Manual Integrations
APPROVED

Sohil
8/3/2018 12:53:44 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: 3.263 ng

RT: 11.76 min Scan# 1602

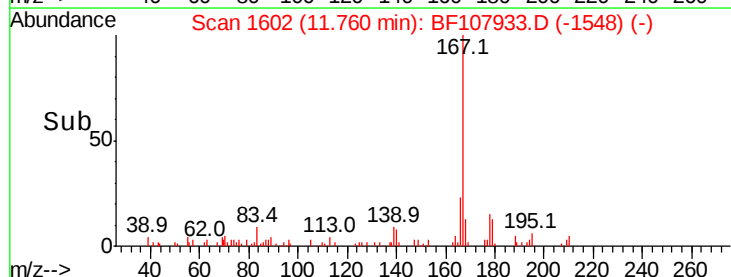
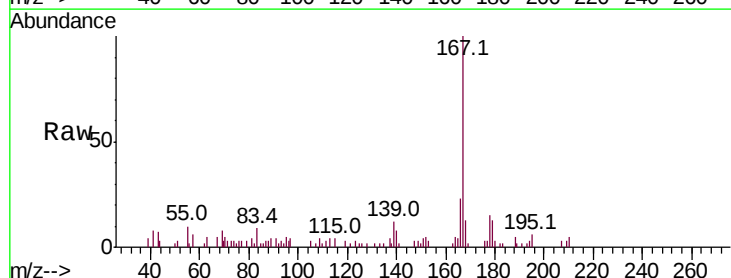
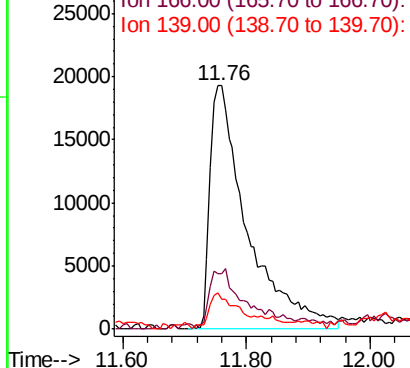
Delta R.T. 0.02 min

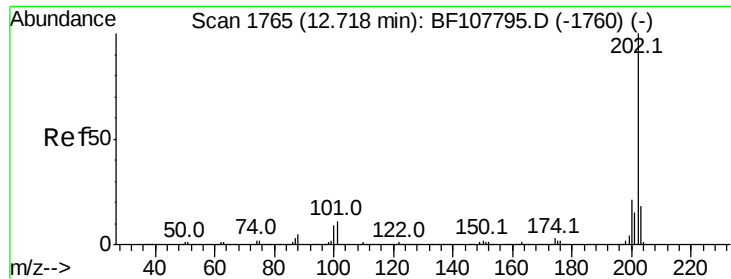
Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Tgt Ion:	167	Resp:	80743
Ion Ratio	Lower	Upper	
167	100		
166	22.8	17.6	26.4
139	12.2	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: 36.653 ng

RT: 12.71 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

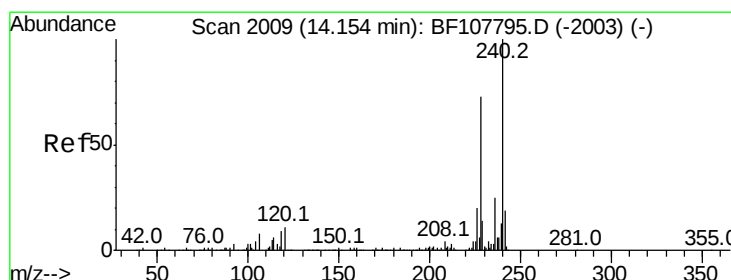
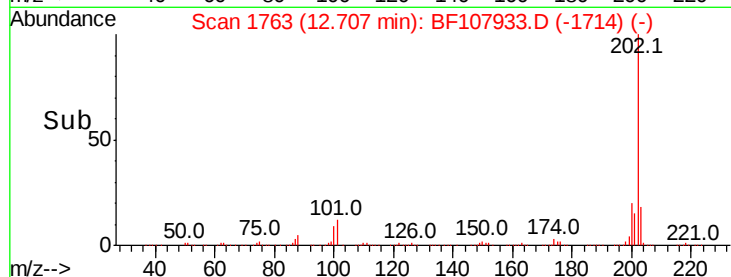
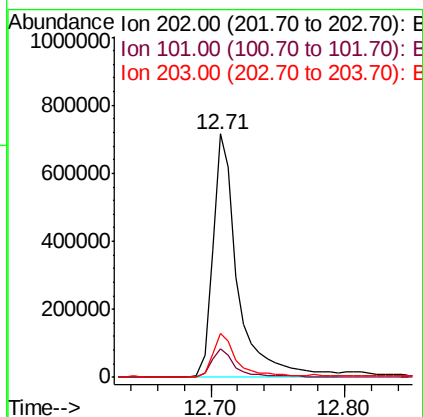
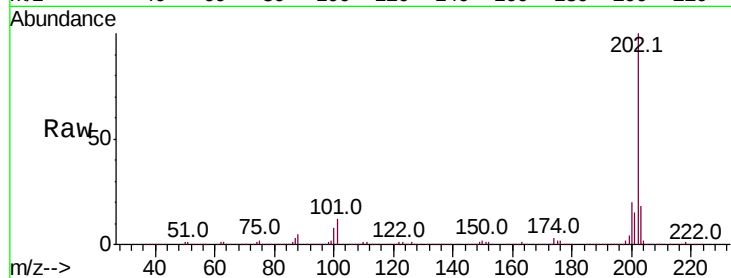
ClientSampleId :

KG-PIT-4DL

Tot Ion:	202	Resp:	934894
Ion Ratio	Lower	Upper	
202	100		
101	11.8	0.0	34.1
203	18.0	0.0	38.1

Manual Integrations
APPROVED

Sohil
8/3/2018 12:53:44 PM



#75

Chrysene-d12

Concen: 20.000 ng

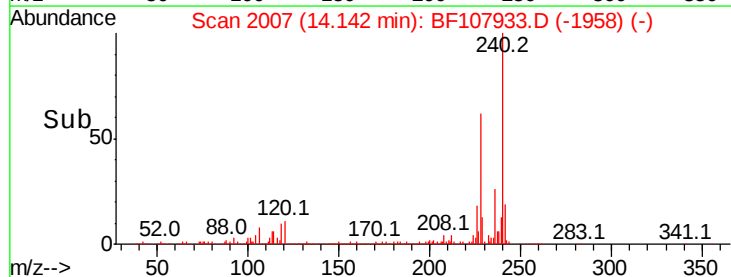
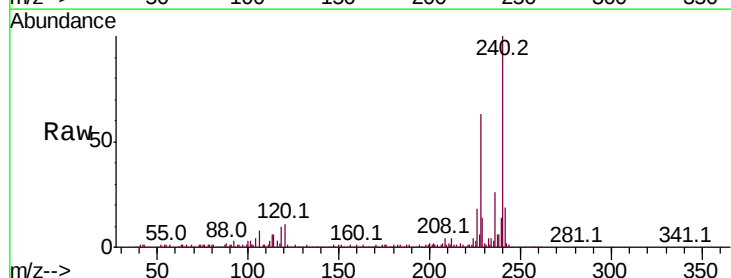
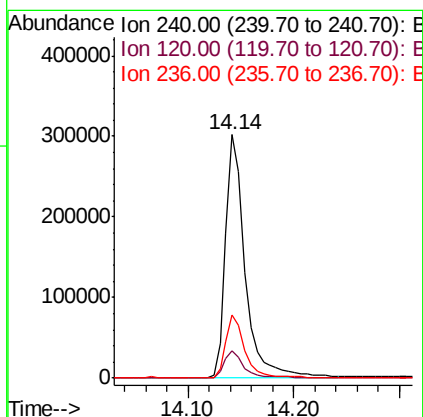
RT: 14.14 min Scan# 2007

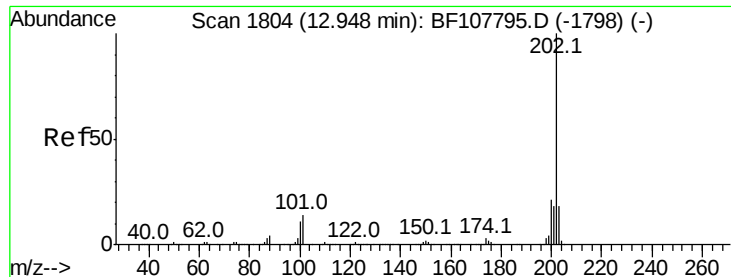
Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Tgt Ion:	240	Resp:	393349
Ion Ratio	Lower	Upper	
240	100		
120	11.3	9.5	14.3
236	26.0	20.7	31.1





#77

Pvrene

Concen: 29.481 ng

RT: 12.94 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

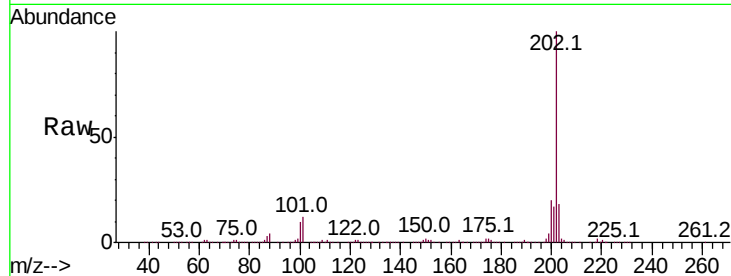
ClientSampleId :

KG-PIT-4DL

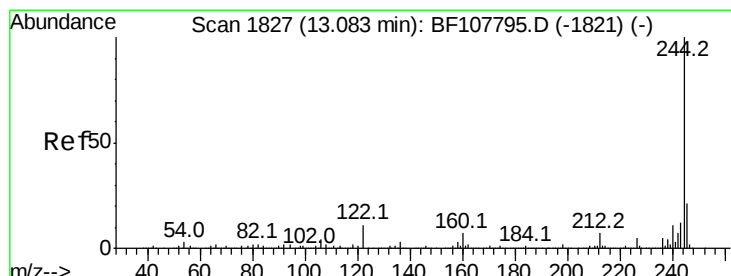
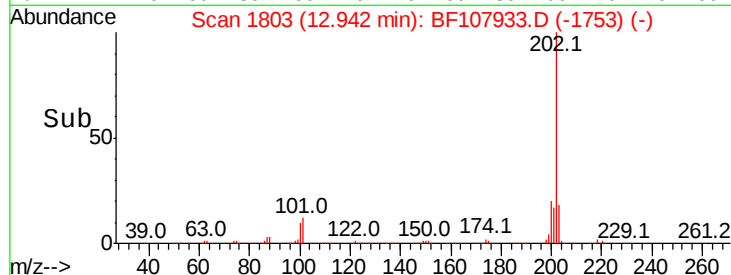
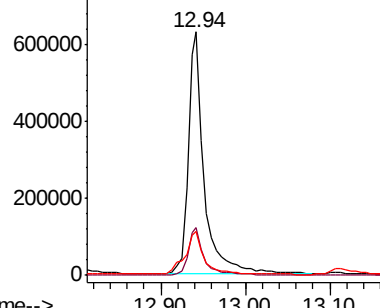
Tot Ion:	202	Resp:	835031
Ion Ratio	Lower	Upper	
202	100		
200	19.8	17.4	26.2
203	18.2	14.3	21.5

Manual Integrations
APPROVED

Sohil
8/3/2018 12:53:44 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 2.384 ng

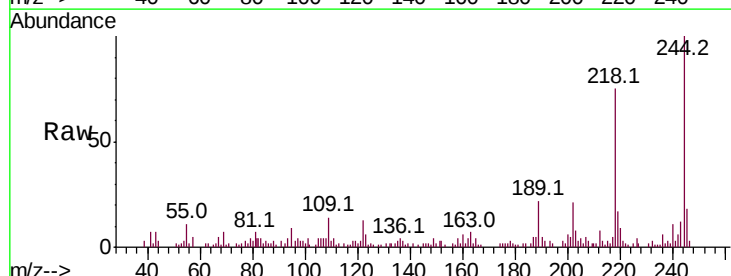
RT: 13.07 min Scan# 1825

Delta R.T. -0.01 min

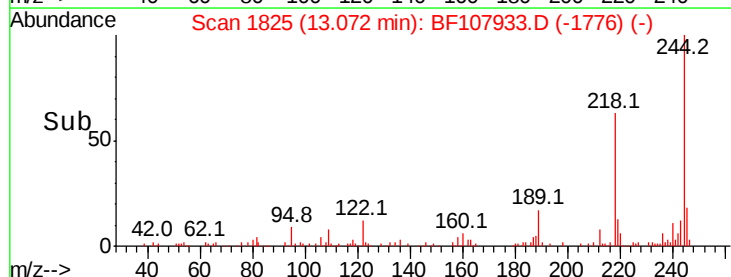
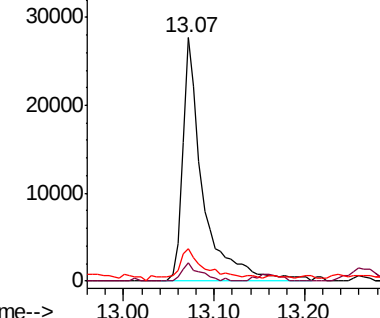
Lab File: BF107933.D

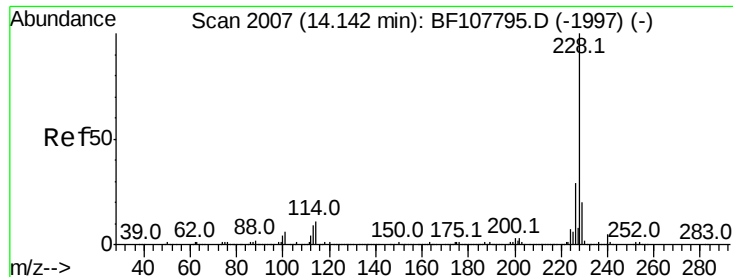
Acq: 3 Aug 2018 3:59

Tgt Ion:	244	Resp:	43249
Ion Ratio	Lower	Upper	
244	100		
212	7.6	5.4	8.0
122	13.1	11.0	16.4



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





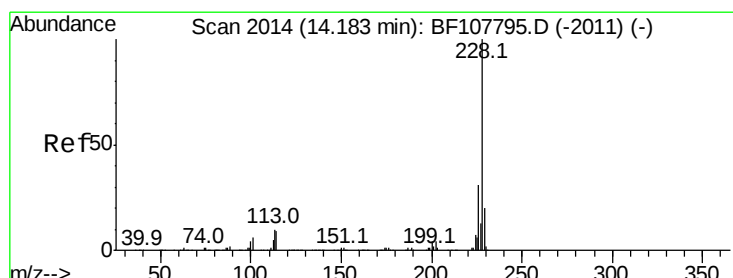
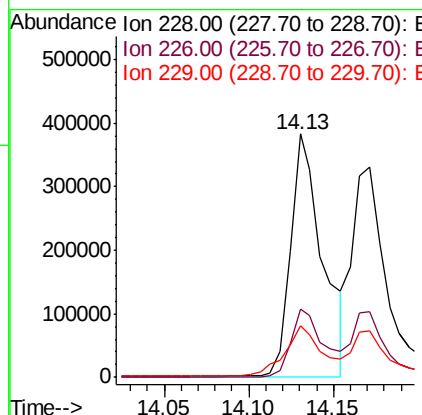
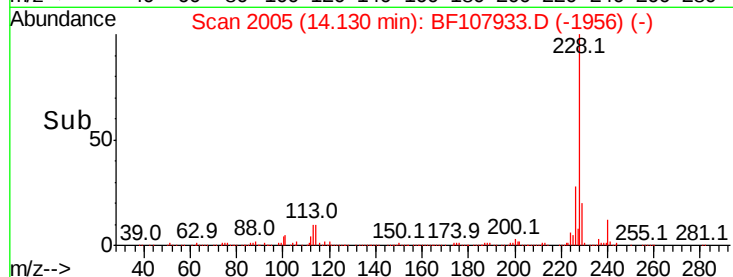
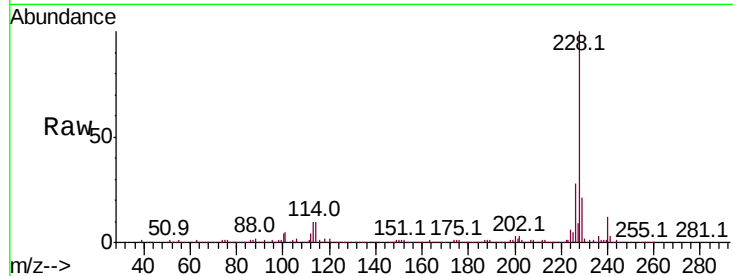
#80
Benzo(a)anthracene
Concen: 22.652 ng
RT: 14.13 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	21.0	15.8	23.6

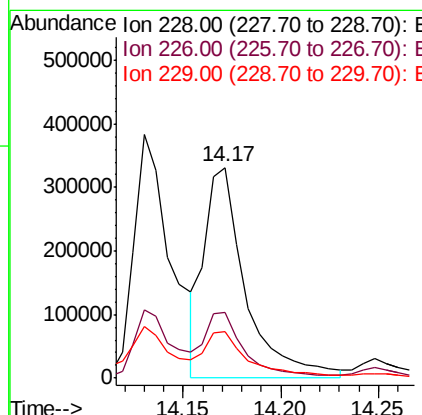
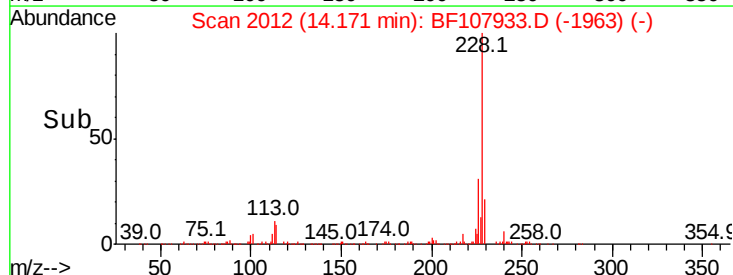
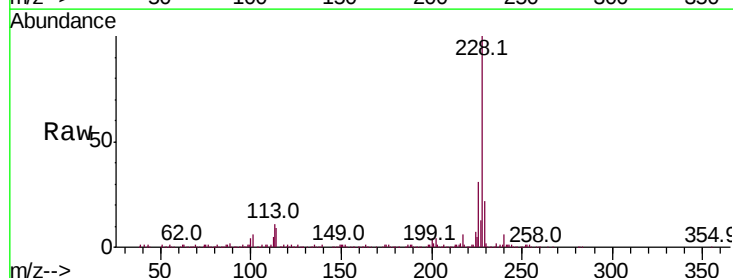
Manual Integrations
APPROVED

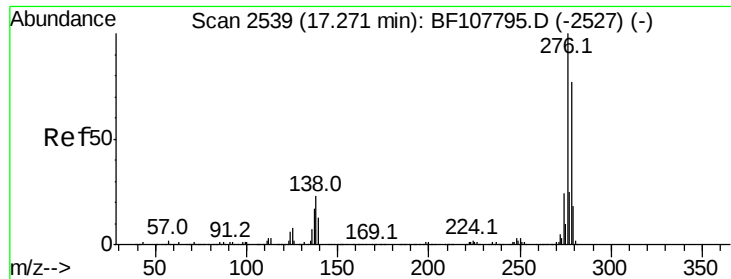
Sohil
8/3/2018 12:53:44 PM



#82
Chrysene
Concen: 20.064 ng
RT: 14.17 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	21.9	16.2	24.4





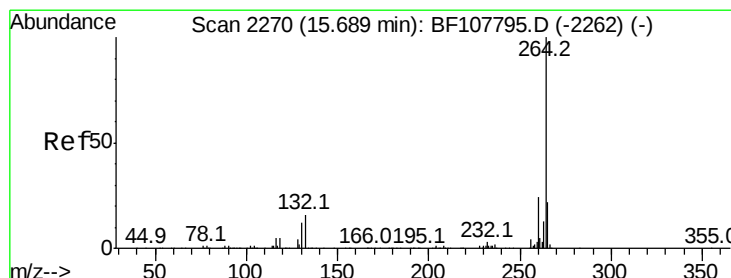
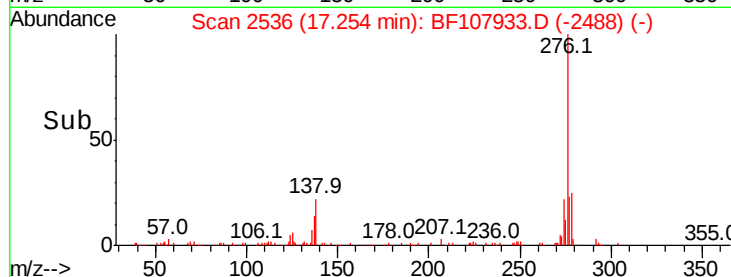
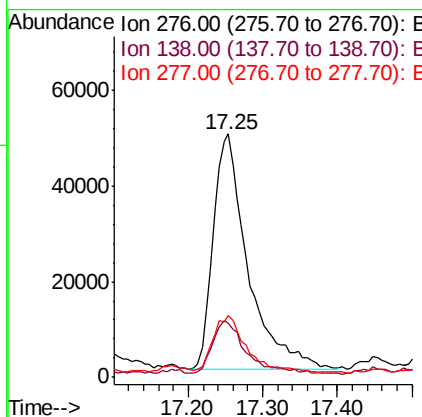
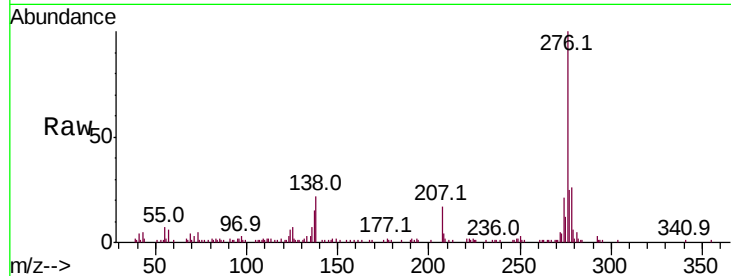
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.646 ng
RT: 17.25 min Scan# 2536
Delta R.T. -0.02 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.6	25.0	37.6#
277	24.0	20.1	30.1

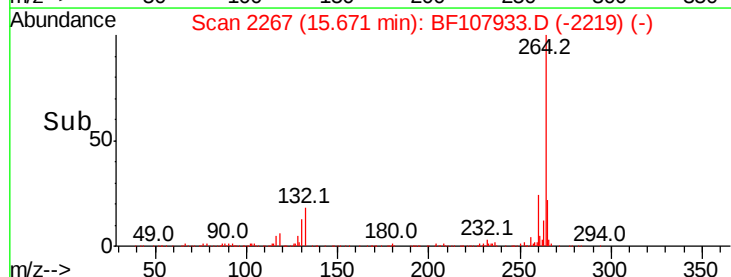
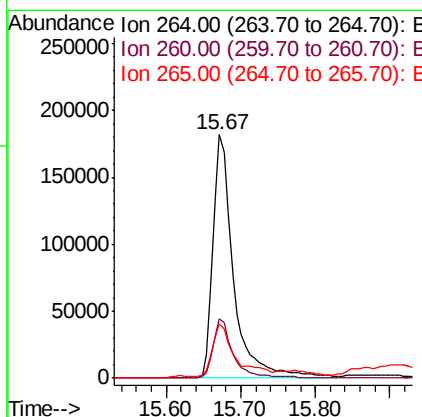
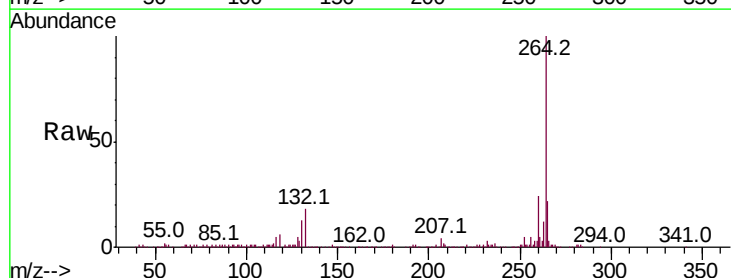
Manual Integrations
APPROVED

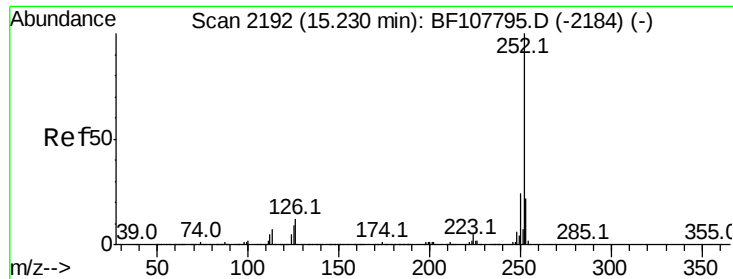
Sohil
8/3/2018 12:53:44 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.67 min Scan# 2267
Delta R.T. -0.02 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	22.1	17.5	26.3





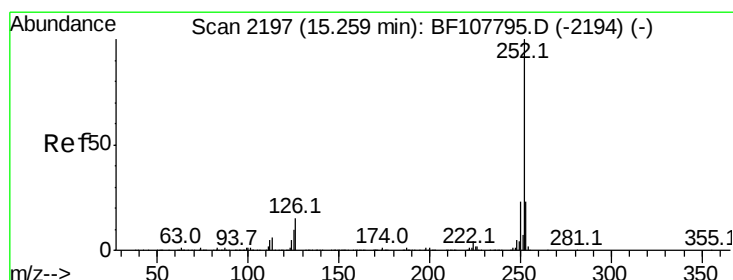
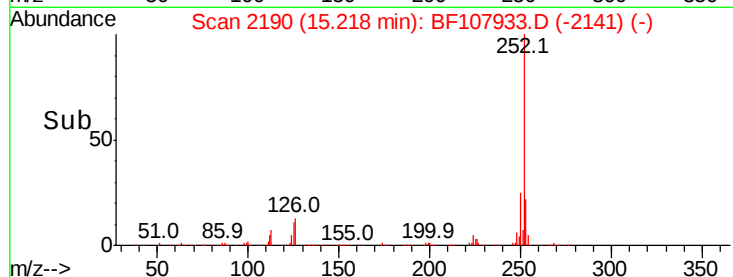
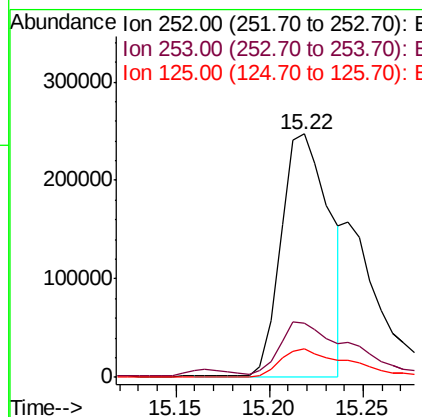
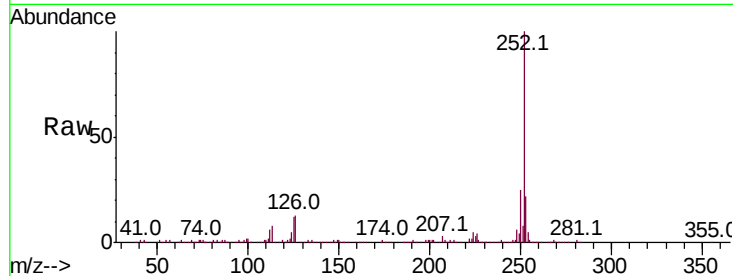
#87
Benzo(b)fluoranthene
Concen: 26.274 ng m
RT: 15.22 min Scan# 2190
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	11.6	9.0	13.6

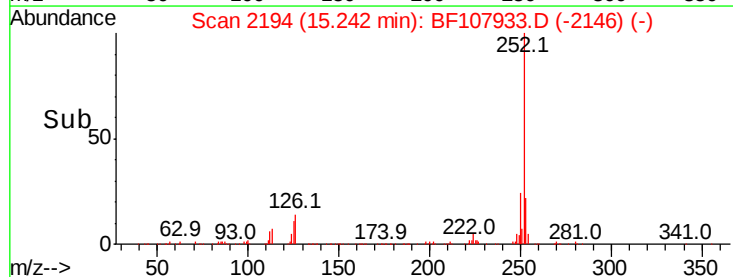
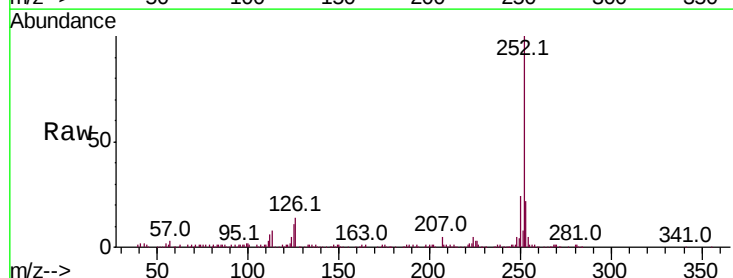
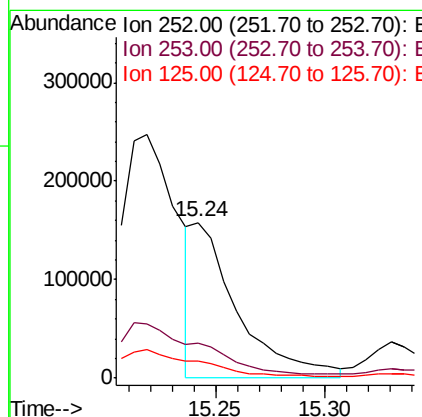
Manual Integrations
APPROVED

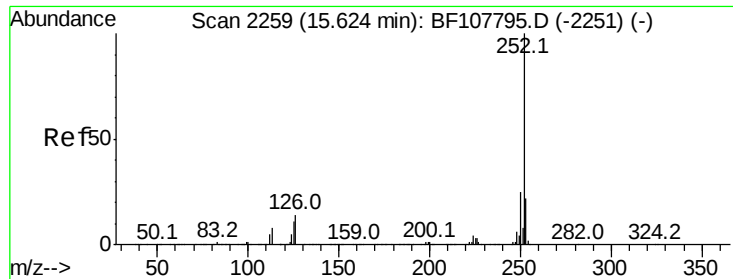
Sohil
8/3/2018 12:53:44 PM



#88
Benzo(k)fluoranthene
Concen: 10.830 ng m
RT: 15.24 min Scan# 2194
Delta R.T. -0.02 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	11.1	10.2	15.2





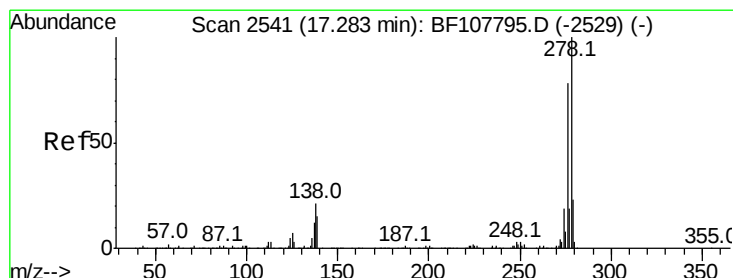
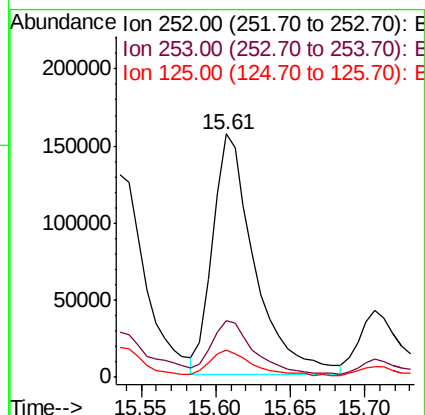
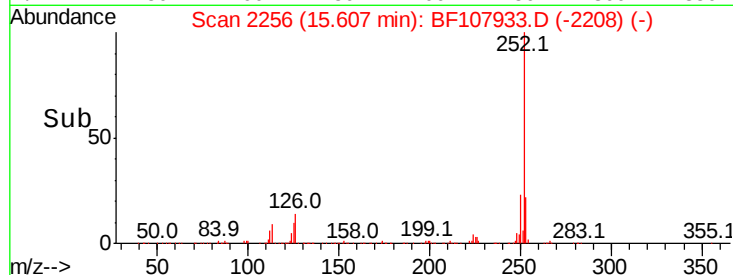
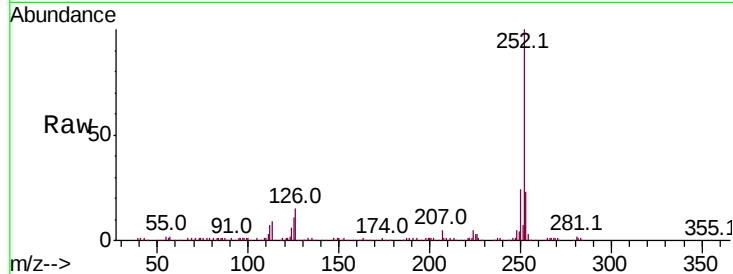
#89
Benzo(a)pyrene
Concen: 17.470 ng
RT: 15.61 min Scan# 2256
Delta R.T. -0.02 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	11.2	9.8	14.6

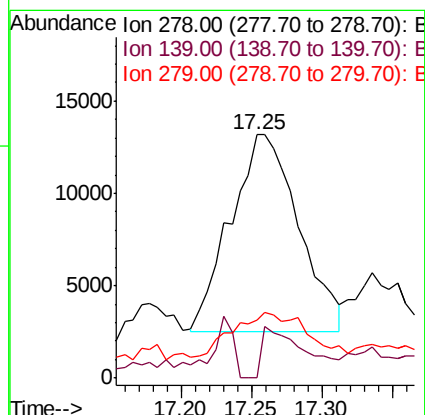
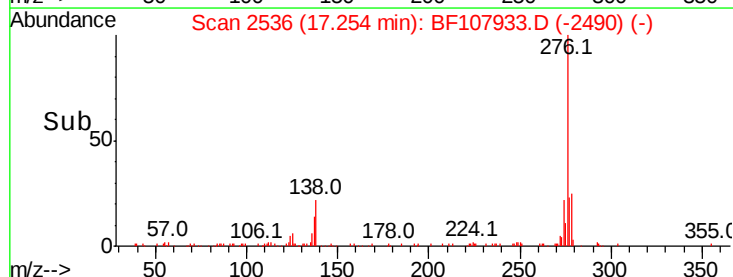
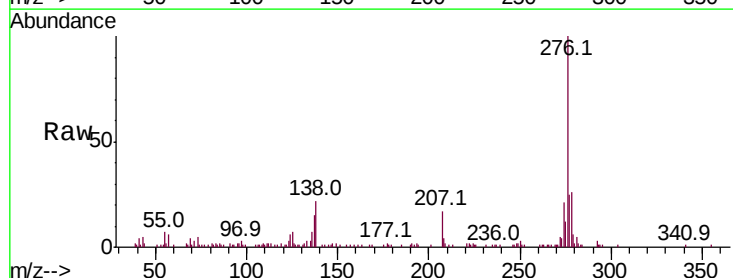
Manual Integrations
APPROVED

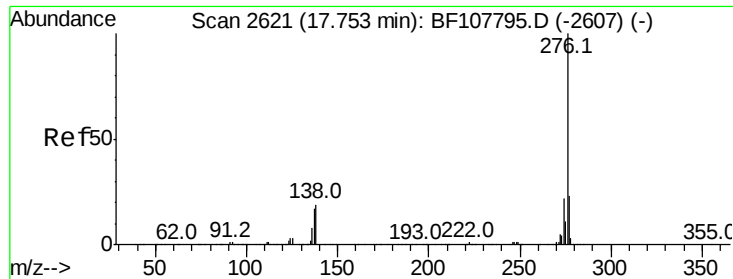
Sohil
8/3/2018 12:53:44 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.356 ng m
RT: 17.25 min Scan# 2536
Delta R.T. -0.03 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	23.7	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 9.865 ng
 RT: 17.72 min Scan# 2616
 Delta R.T. -0.03 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

Instrument :
 BNA_F
 ClientSampleId :
 KG-PIT-4DL

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	23.5	17.9	26.9
138	22.2	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 8/3/2018 12:53:44 PM

