

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
 Data File : BF107737.D
 Acq On : 27 Jul 2018 9:30
 Operator : JU/SJ
 Sample : J4109-01DL 100X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(3-5)DL

Manual Integrations
 APPROVED

Sohil
 7/27/2018 2:54:29 PM

Quant Time: Jul 27 12:28:21 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	128533	20.00	ng	-0.01
21) Naphthalene-d8	8.24	136	655922	20.00	ng	-0.02
38) Acenaphthene-d10	10.00	164	297275	20.00	ng	-0.02
63) Phenanthrene-d10	11.50	188	519694	20.00	ng	-0.02
75) Chrysene-d12	14.14	240	396509	20.00	ng	-0.02
86) Perylene-d12	15.67	264	439662	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.69	99	849	0.09	ng	0.08
23) Nitrobenzene-d5	7.58	82	2243	0.23	ng	0.04
41) 2,4,6-Tribromophenol	10.81	330	2212	0.65	ng	-0.01
44) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng	
78) Terphenyl-d14	13.08	244	10222	0.66	ng	-0.02
Target Compounds						
31) Naphthalene	8.27	128	1835796	63.647	ng	99
37) 2-Methylnaphthalene	8.95	142	348989	17.460	ng	99
45) 1,1'-Biphenyl	9.42	154	99555	3.844	ng	98
48) Acenaphthylene	9.86	152	292263	9.829	ng	97
51) Acenaphthene	10.03	154	75618	4.059	ng	97
54) Dibenzofuran	10.21	168	444019	16.189	ng	98
57) Fluorene	10.55	166	556664	28.448	ng	94
70) Phenanthrene	11.52	178	1583795	62.539	ng	99
71) Anthracene	11.57	178	521910	20.468	ng	98
72) Carbazole	11.74	167	185120	6.982	ng	97
74) Fluoranthene	12.71	202	1076790	39.624	ng	97
77) Pyrene	12.94	202	817937	30.158	ng	97
80) Benzo(a)anthracene	14.14	228	425558	18.314	ng	93
82) Chrysene	14.17	228	315614	14.140	ng	97
85) Indeno(1,2,3-cd)pyrene	17.24	276	119906	6.338	ng	# 87
87) Benzo(b)fluoranthene	15.22	252	360337m	14.975	ng	
88) Benzo(k)fluoranthene	15.24	252	173712m	7.369	ng	
89) Benzo(a)pyrene	15.61	252	300246	13.641	ng	99
91) Benzo(g,h,i)perylene	17.72	276	88098	4.694	ng	# 94

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

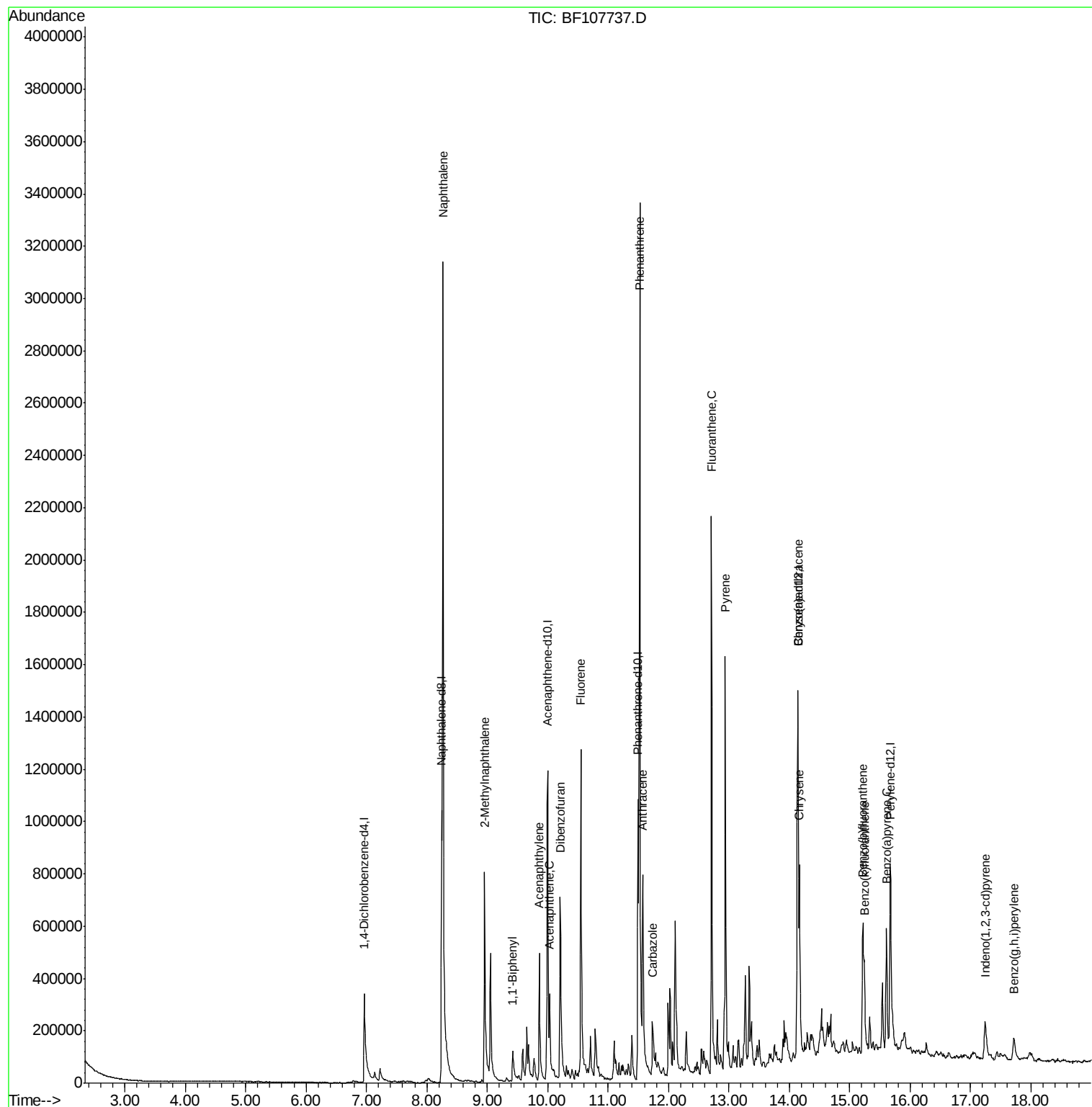
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107737.D
Acq On : 27 Jul 2018 9:30
Operator : JU/SJ
Sample : J4109-01DL 100X
Misc :
ALS Vial : 39 Sample Multiplier: 1

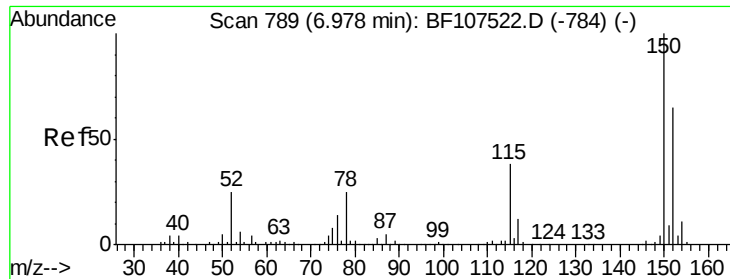
Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

Manual Integrations
APPROVED

Sohil
7/27/2018 2:54:29 PM

Quant Time: Jul 27 12:28:21 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 20 16:29:27 2018
Response via : Initial Calibration





#1

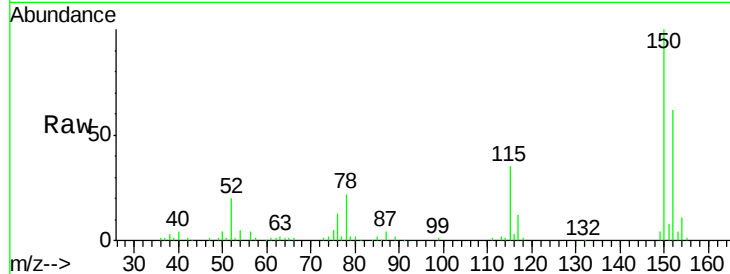
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

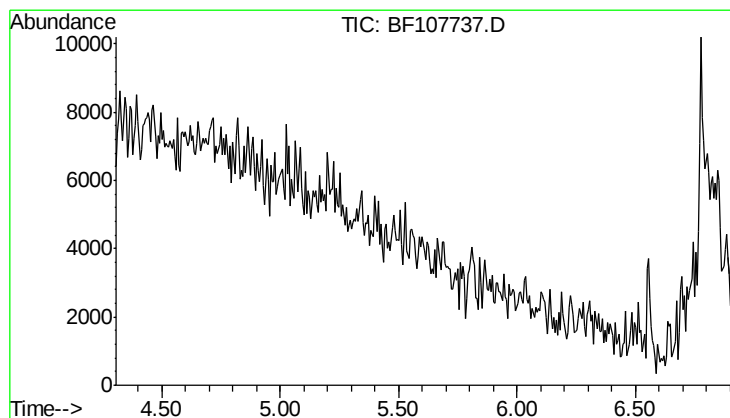
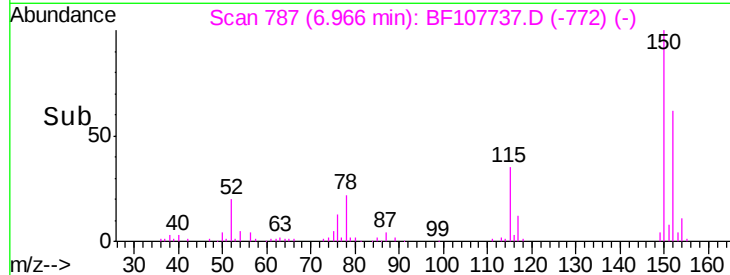
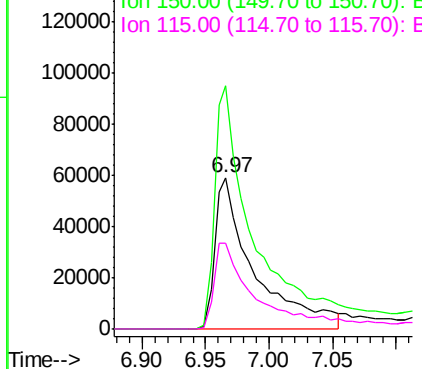
Tgt Ion	Ratio	Resp	Lower	Upper
152	100	128533		
150	160.1	124.6	186.8	
115	56.3	50.1	75.1	

Manual Integrations
APPROVED

Sohil
7/27/2018 2:54:29 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

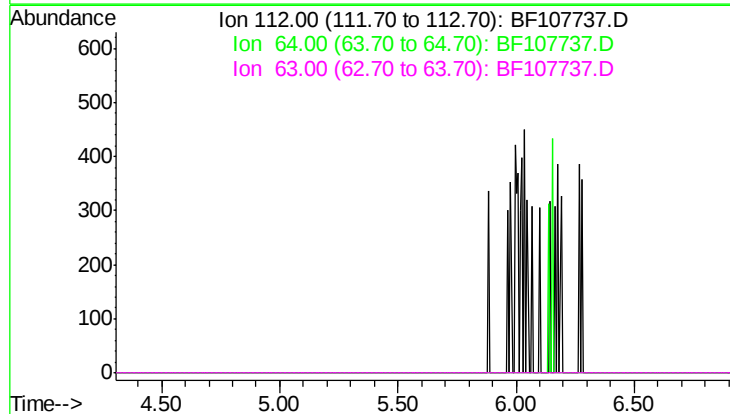


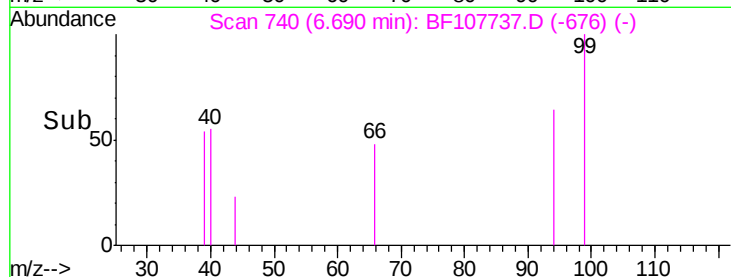
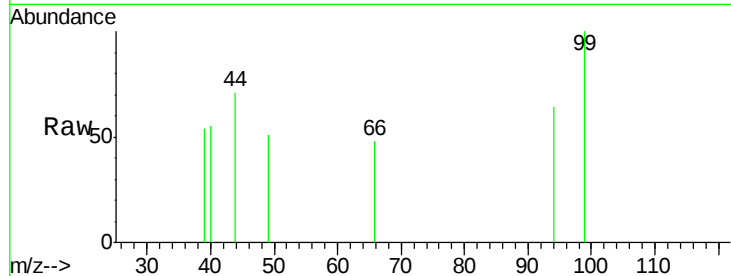
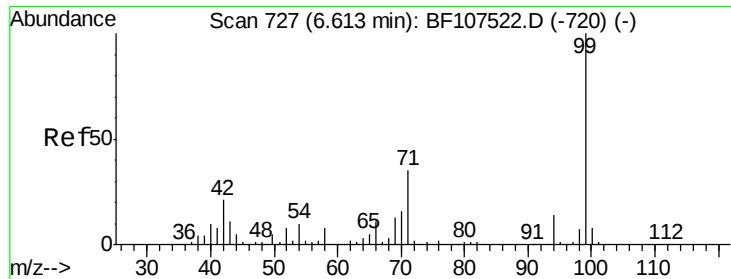
#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.61 min

Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion	Sig	Exp Ratio
112	100	
64	59.9	
63	29.6	





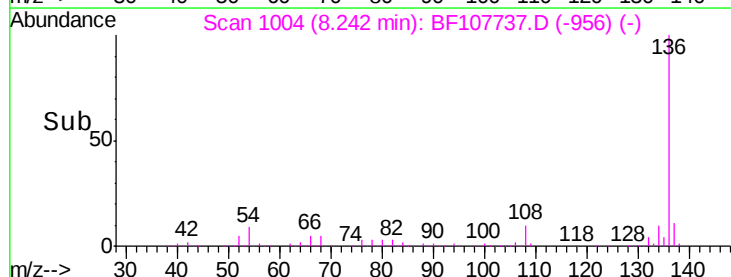
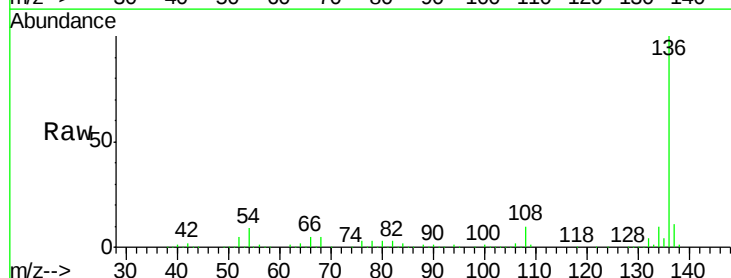
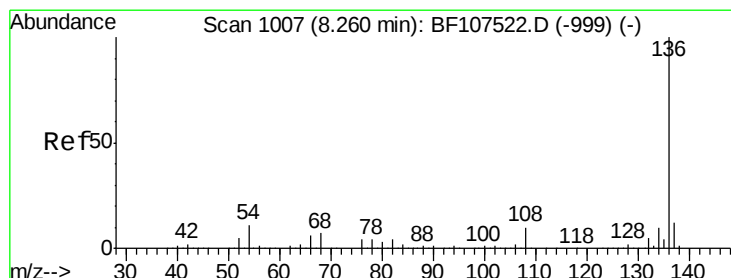
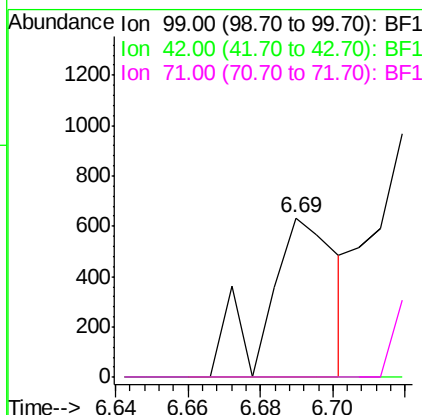
#7
Phenol-d6
Concen: 0.088 ng
RT: 6.69 min Scan# 740
Delta R.T. 0.08 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion: 99 Resp: 849
Ion Ratio Lower Upper
99 100
42 0.0 14.5 21.7#
71 0.0 25.4 38.0#

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

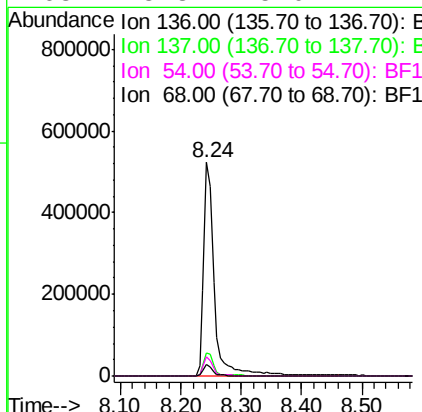
Manual Integrations
APPROVED

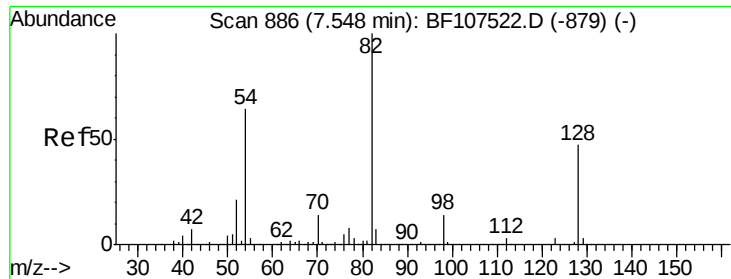
Sohil
7/27/2018 2:54:29 PM



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.24 min Scan# 1004
Delta R.T. -0.02 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion: 136 Resp: 655922
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 9.2 6.6 9.8
68 5.3 5.0 7.4





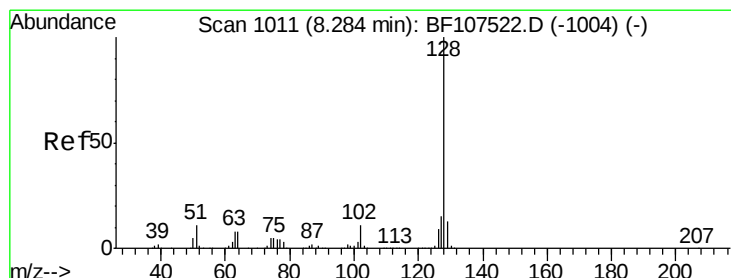
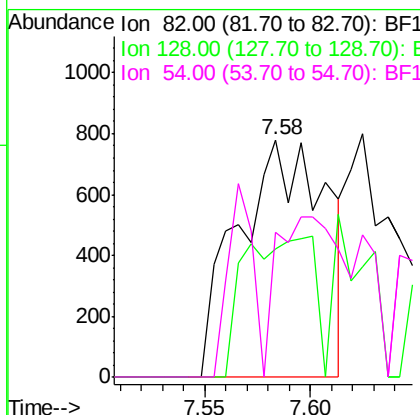
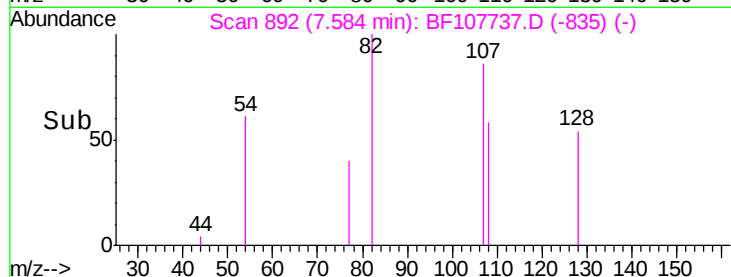
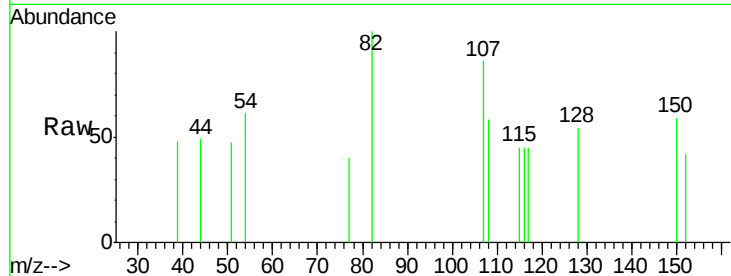
#23
 Nitrobenzene-d5
 Concen: 0.231 ng
 RT: 7.58 min Scan# 892
 Delta R.T. 0.04 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(3-5)DL

Tgt Ion: 82 Resp: 2243
 Ion Ratio Lower Upper
 82 100
 128 54.2 36.1 54.1#
 54 61.1 41.4 62.2

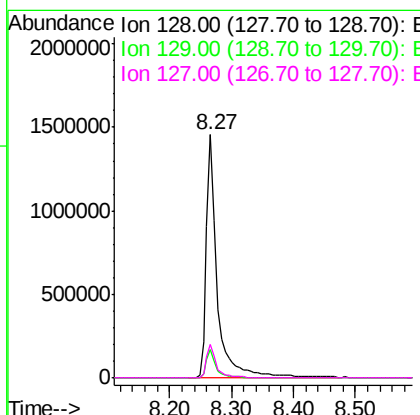
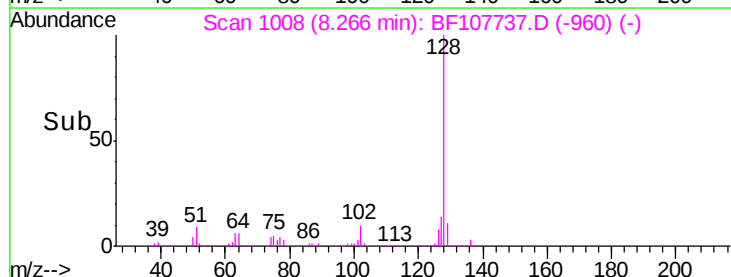
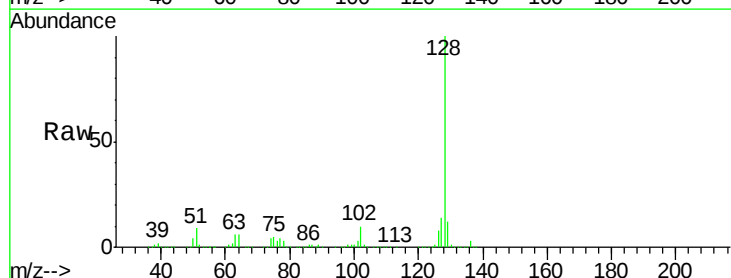
Manual Integrations
 APPROVED

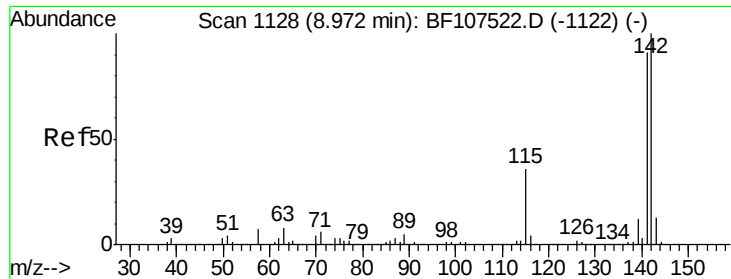
Sohil
 7/27/2018 2:54:29 PM



#31
 Naphthalene
 Concen: 63.647 ng
 RT: 8.27 min Scan# 1008
 Delta R.T. -0.02 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Tgt Ion: 128 Resp: 1835796
 Ion Ratio Lower Upper
 128 100
 129 11.6 8.8 13.2
 127 14.0 10.9 16.3





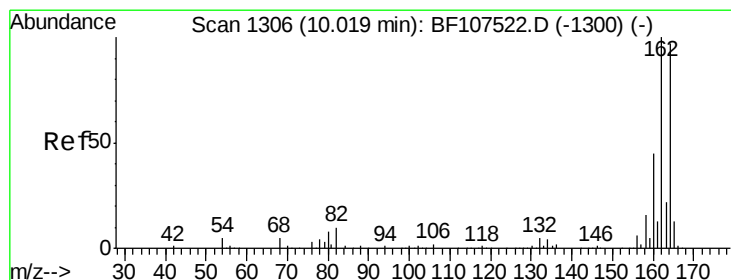
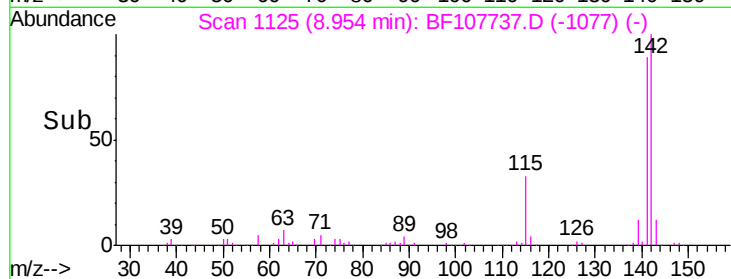
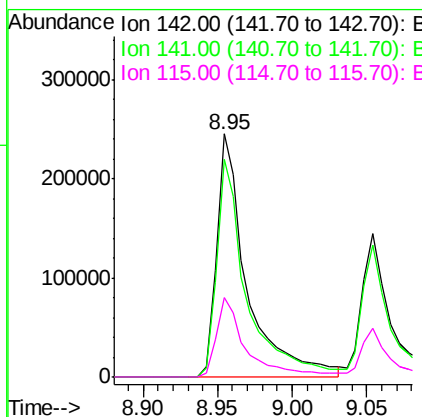
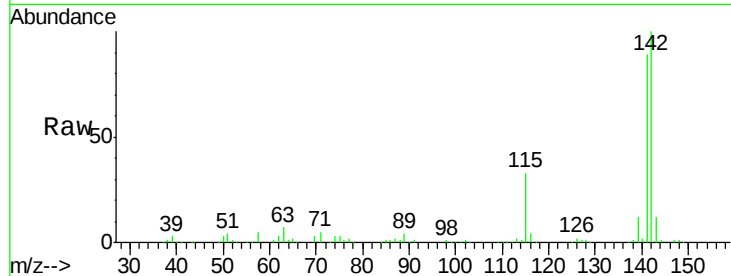
#37
2-Methylnaphthalene
Concen: 17.460 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	348989		
141	89.3	70.8	106.2	
115	32.9	26.1	39.1	

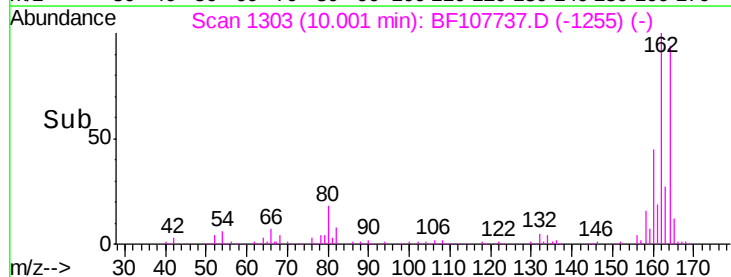
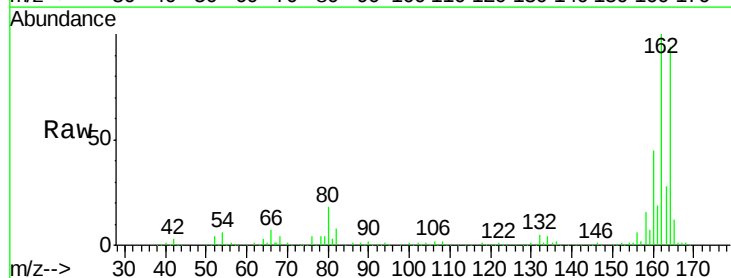
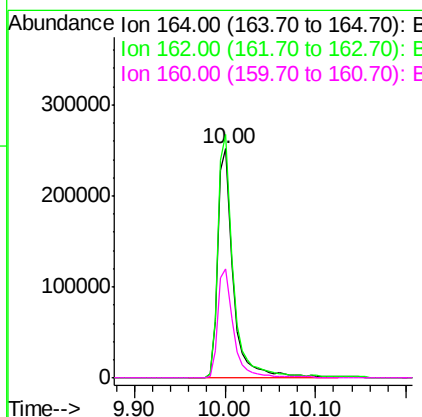
Manual Integrations
APPROVED

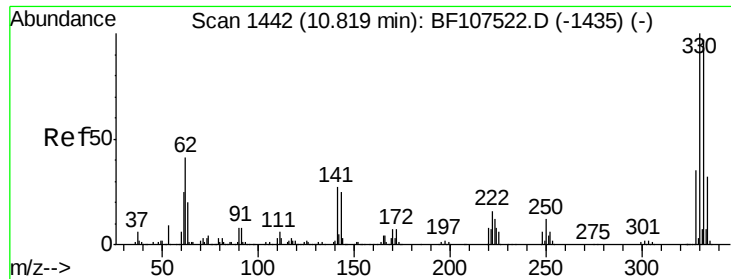
Sohil
7/27/2018 2:54:29 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	297275		
162	106.4	86.1	129.1	
160	47.6	38.3	57.5	





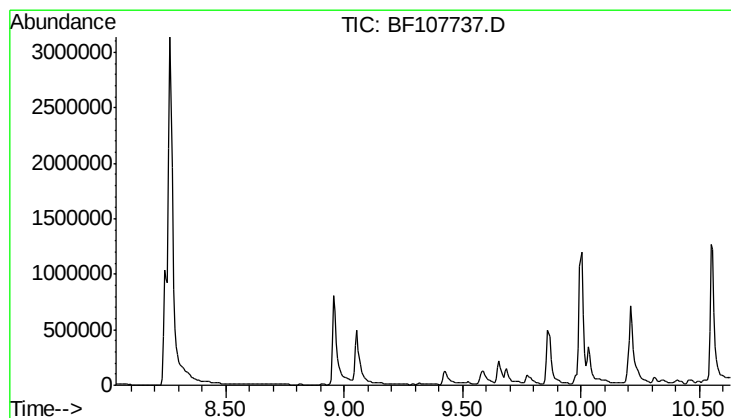
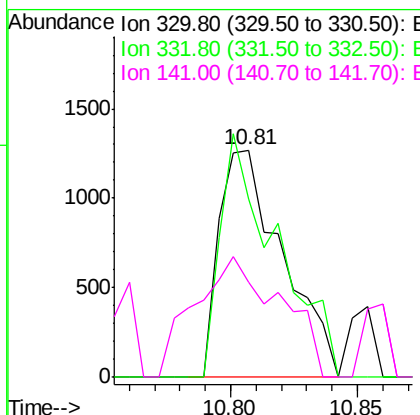
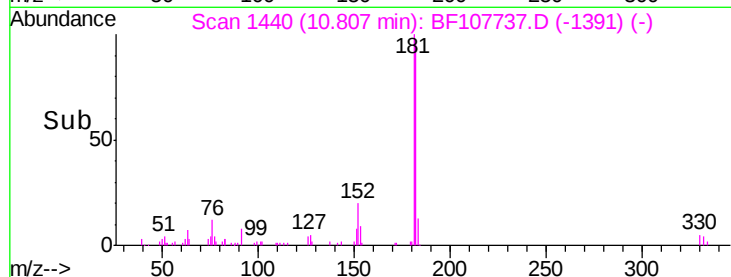
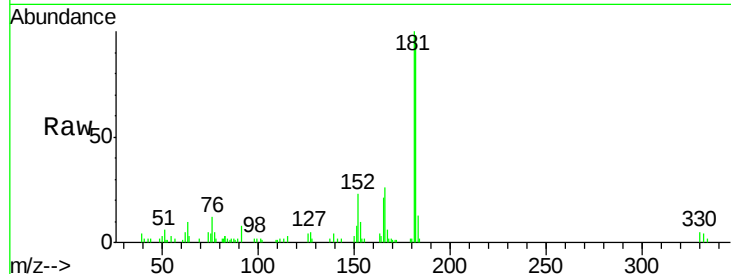
#41
 2,4,6-Tribromophenol
 Concen: 0.654 ng
 RT: 10.81 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(3-5)DL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.0	115.6
141	72.2	29.9	44.9#

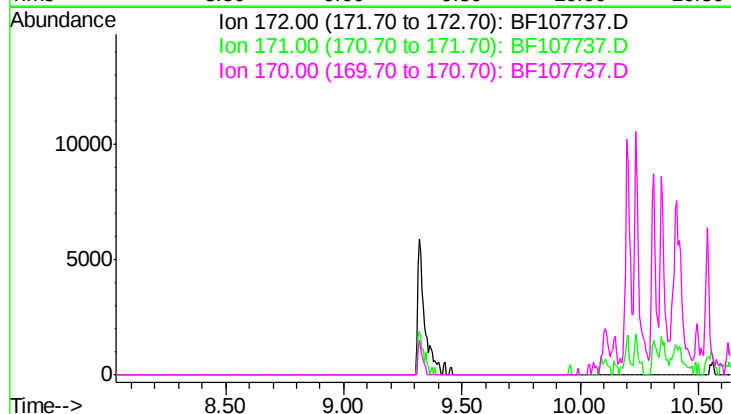
Manual Integrations
 APPROVED

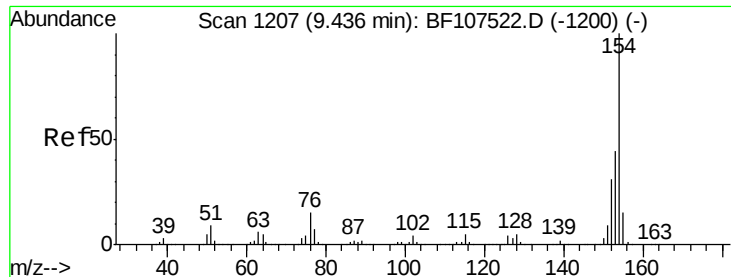
Sohil
 7/27/2018 2:54:29 PM



#44
 2-Fluorobiphenyl
 Concen: 0.000 ng
 Expected RT: 9.34 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Tgt Ion	Exp Ratio
172	100
171	37.1
170	24.5





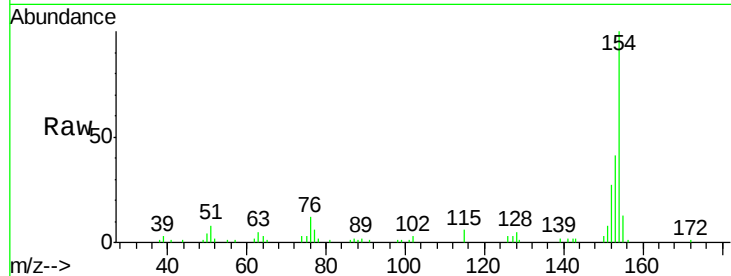
#45
1,1'-Biphenyl
Concen: 3.844 ng
RT: 9.42 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	99555		
153	40.7	21.3	61.3	
76	11.7	0.0	34.0	

Manual Integrations
APPROVED

Sohil
7/27/2018 2:54:29 PM

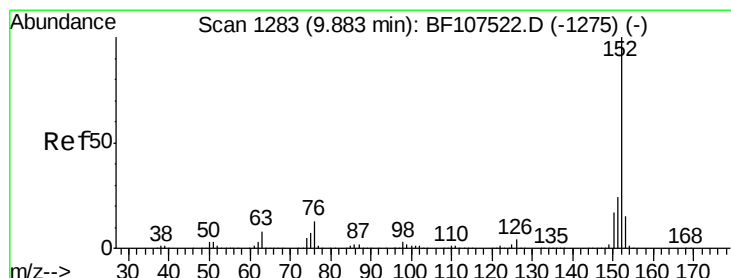
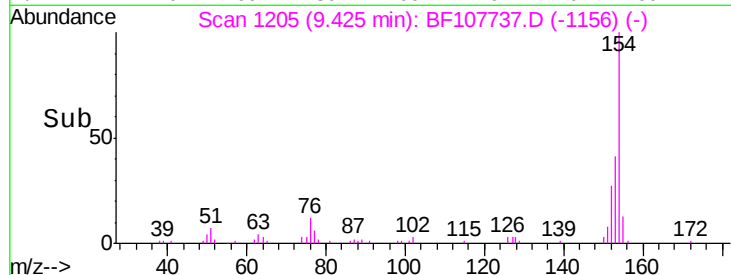
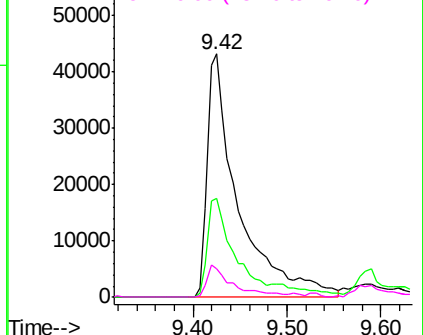


Abundance

Ion 154.00 (153.70 to 154.70): E

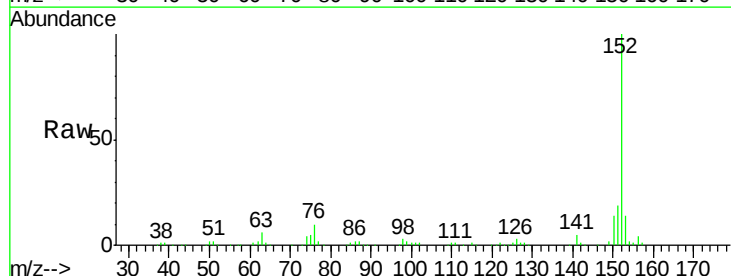
Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#48
Acenaphthylene
Concen: 9.829 ng
RT: 9.86 min Scan# 1279
Delta R.T. -0.02 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	292263		
151	18.8	16.3	24.5	
153	13.8	10.7	16.1	

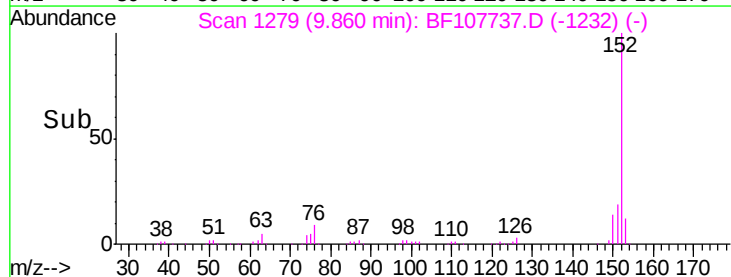
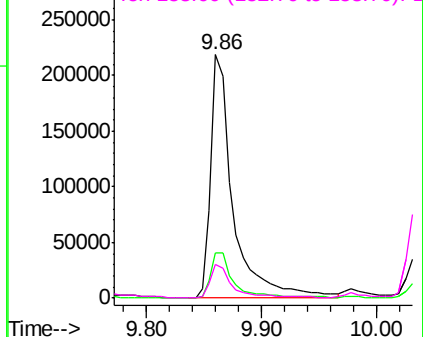


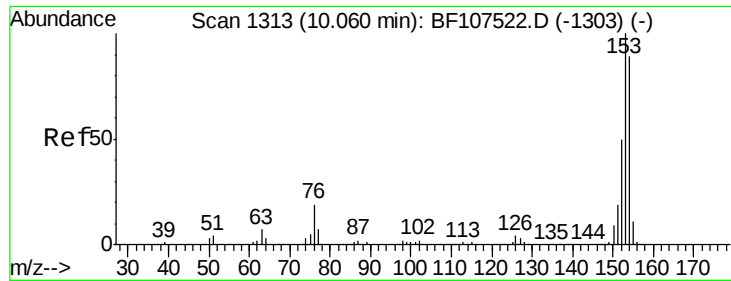
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 4.059 ng

RT: 10.03 min Scan# 1308

Delta R.T. -0.03 min

Lab File: BF107737.D

Acq: 27 Jul 2018 9:30

Instrument :

BNA_F

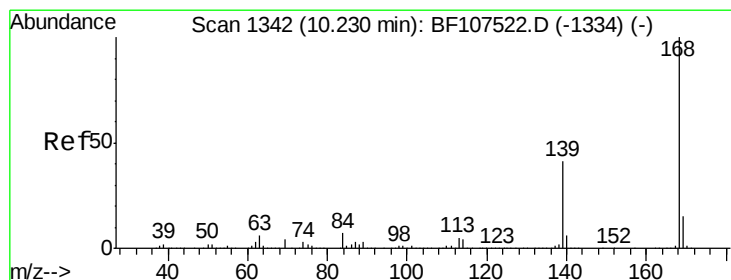
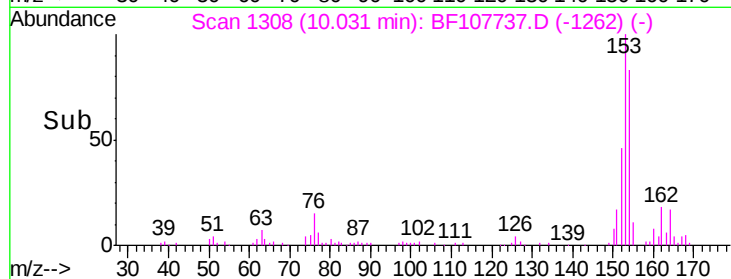
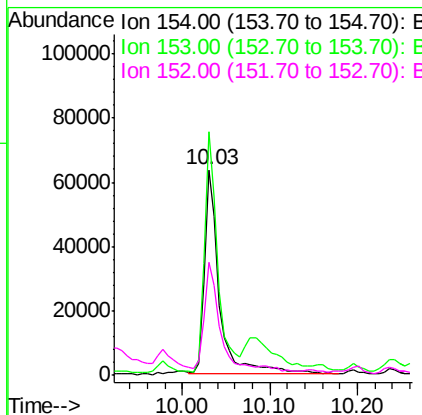
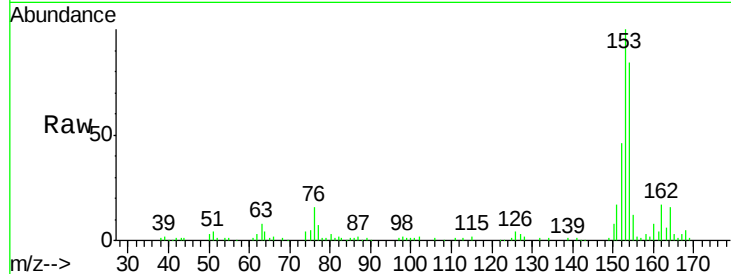
ClientSampleID :

GW-04(3-5)DL

Tgt Ion:	154	Resp:	75618
Ion Ratio	Lower	Upper	
154	100		
153	118.5	91.2	136.8
152	54.9	43.8	65.8

Manual Integrations
APPROVED

Sohil
7/27/2018 2:54:29 PM



#54

Dibenzofuran

Concen: 16.189 ng

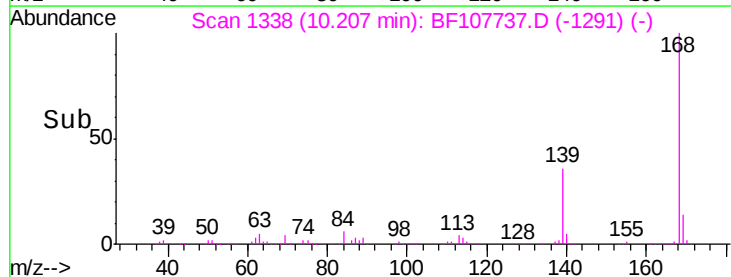
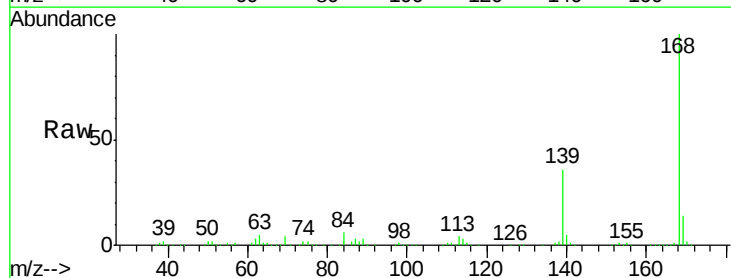
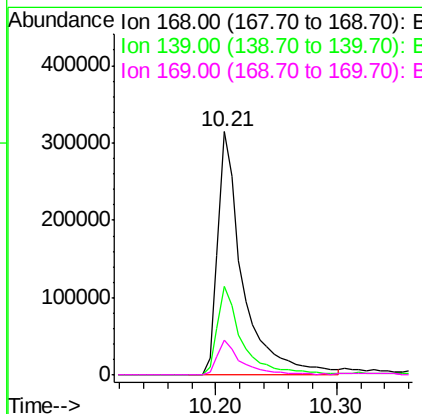
RT: 10.21 min Scan# 1338

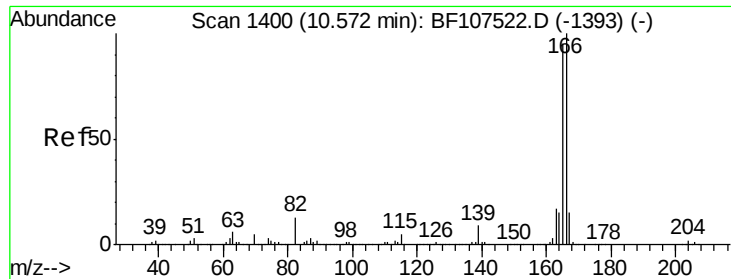
Delta R.T. -0.02 min

Lab File: BF107737.D

Acq: 27 Jul 2018 9:30

Tgt Ion:	168	Resp:	444019
Ion Ratio	Lower	Upper	
168	100		
139	36.3	30.1	45.1
169	14.2	10.9	16.3





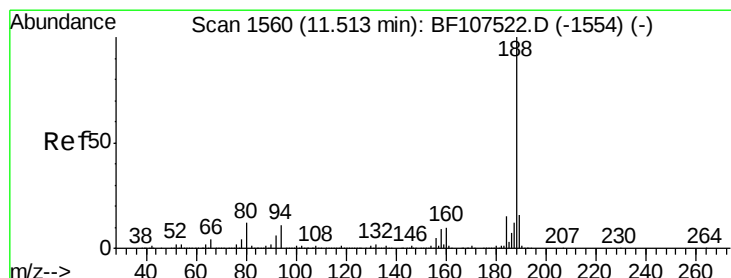
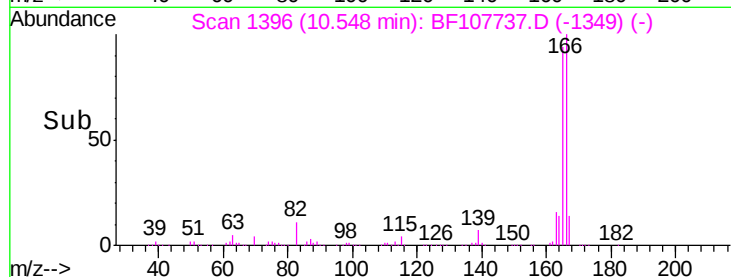
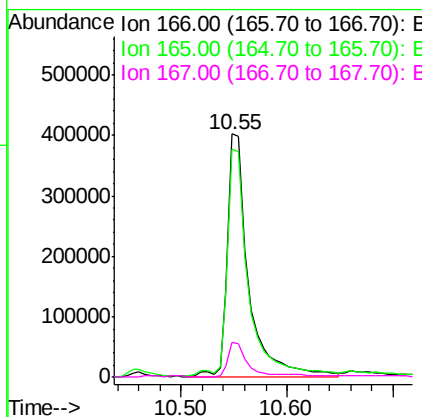
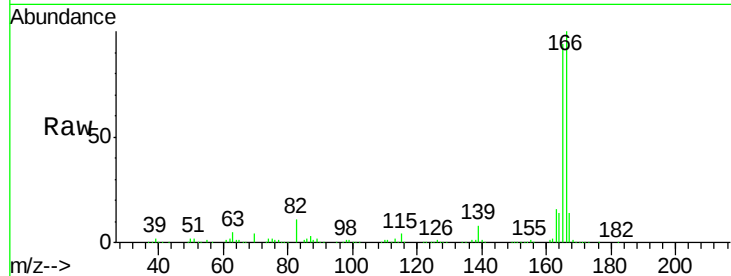
#57
 Fluorene
 Concen: 28.448 ng
 RT: 10.55 min Scan# 1396
 Delta R.T. -0.02 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Instrument :
 BNA_F
 ClientSampleID :
 GW-04(3-5)DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	556664		
165	93.7	79.8	119.8	
167	14.5	10.6	16.0	

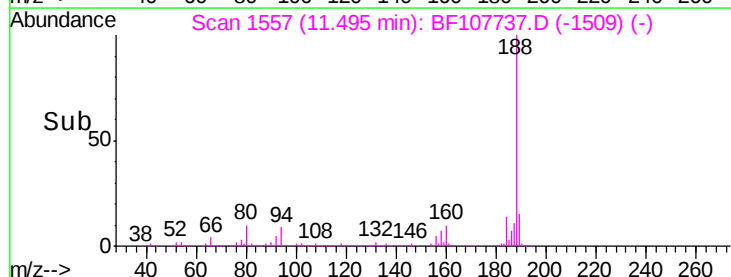
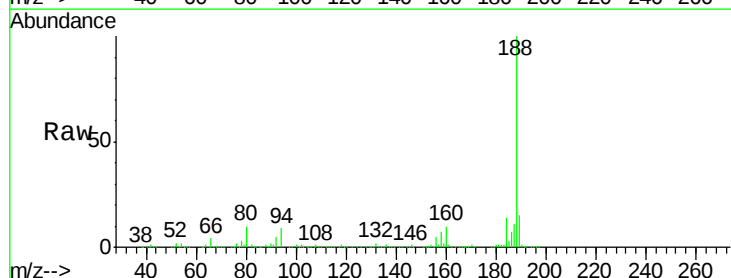
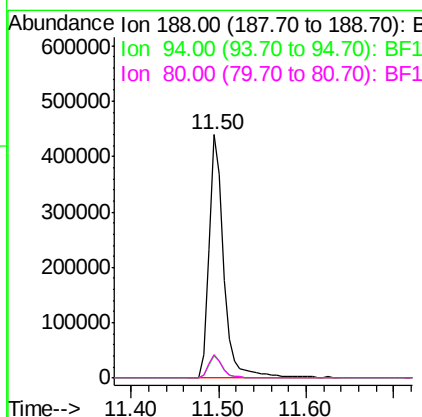
Manual Integrations
 APPROVED

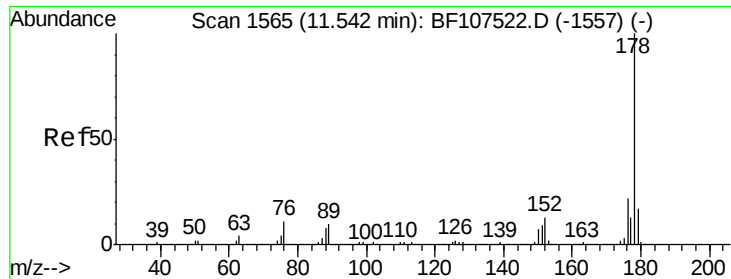
Sohil
 7/27/2018 2:54:29 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	519694		
94	9.1	8.5	12.7	
80	9.8	9.2	13.8	





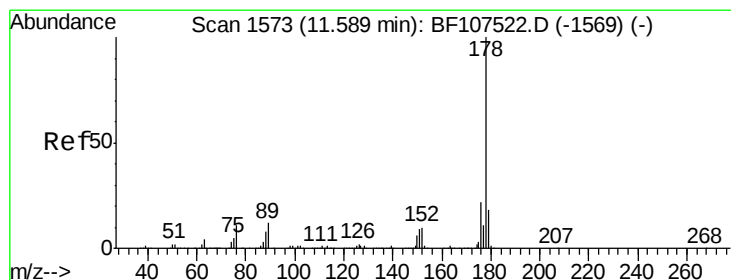
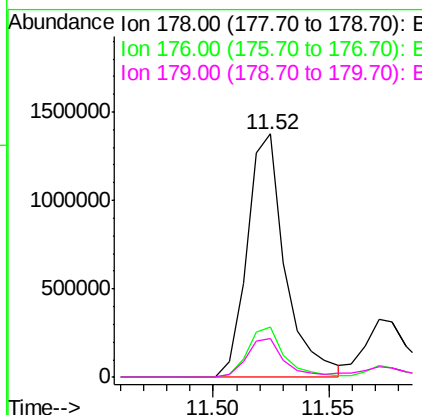
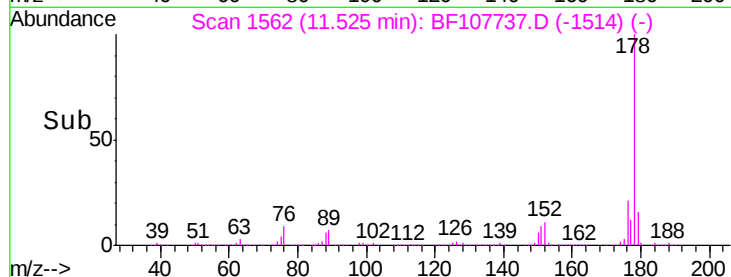
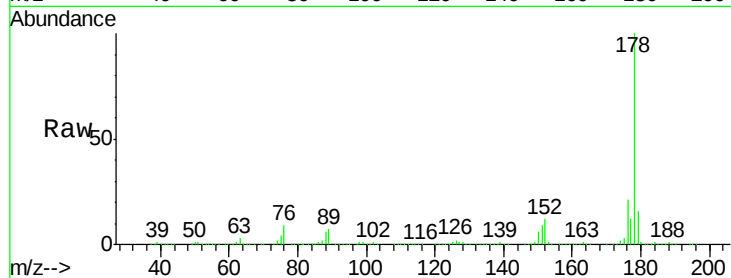
#70
Phenanthrene
Concen: 62.539 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.02 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

Tgt Ion:178 Resp: 1583795
Ion Ratio Lower Upper
178 100
176 20.6 15.8 23.8
179 16.1 13.0 19.6

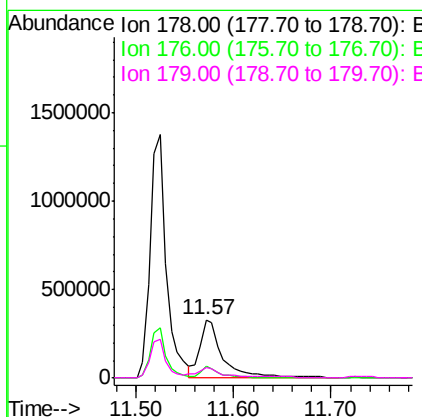
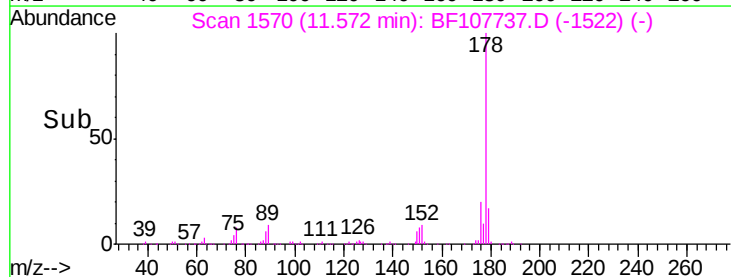
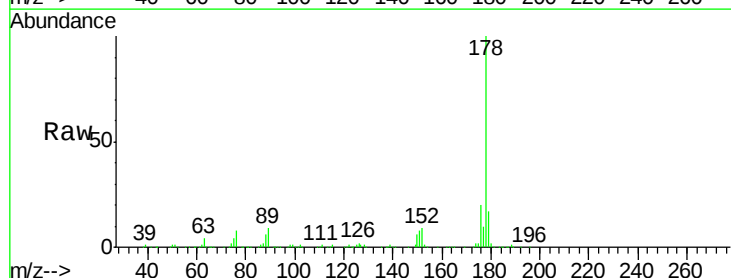
Manual Integrations
APPROVED

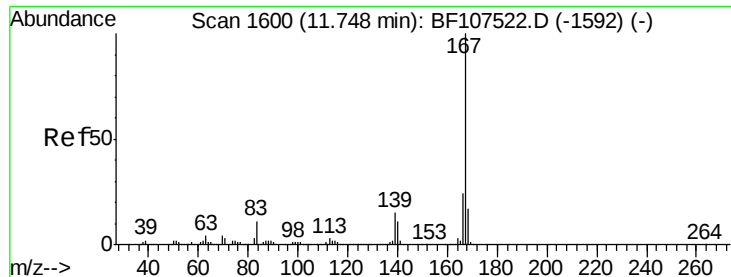
Sohil
7/27/2018 2:54:29 PM



#71
Anthracene
Concen: 20.468 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion:178 Resp: 521910
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 17.4 12.6 19.0





#72

Carbazole

Concen: 6.982 ng

RT: 11.74 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BF107737.D

Acq: 27 Jul 2018 9:30

Instrument :

BNA_F

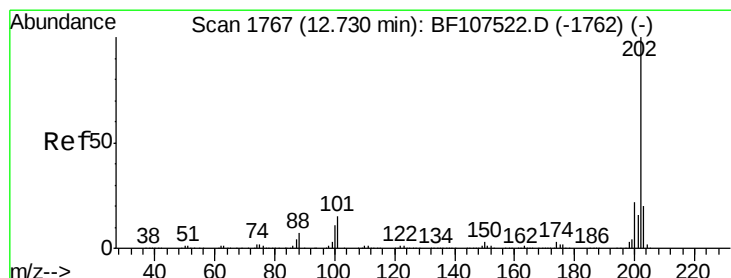
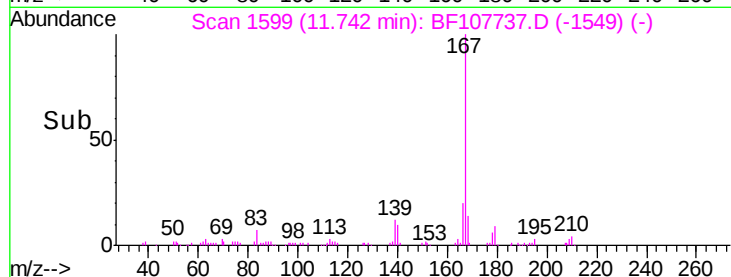
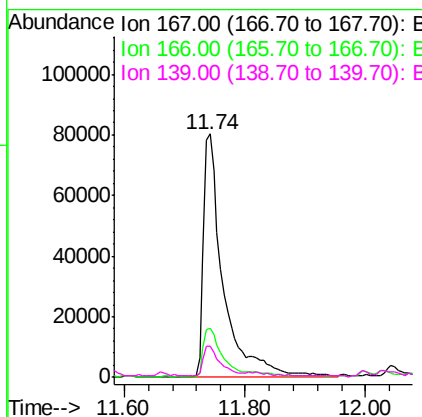
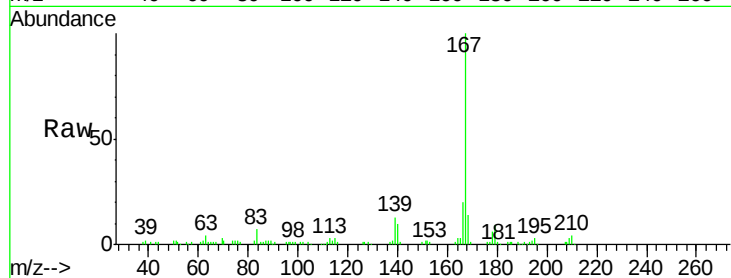
ClientSampleId :

GW-04(3-5)DL

Tgt Ion:	167	Resp:	185120
Ion Ratio		Lower	Upper
167	100		
166	20.4	17.6	26.4
139	12.8	10.9	16.3

Manual Integrations
APPROVED

Sohil
7/27/2018 2:54:29 PM



#74

Fluoranthene

Concen: 39.624 ng

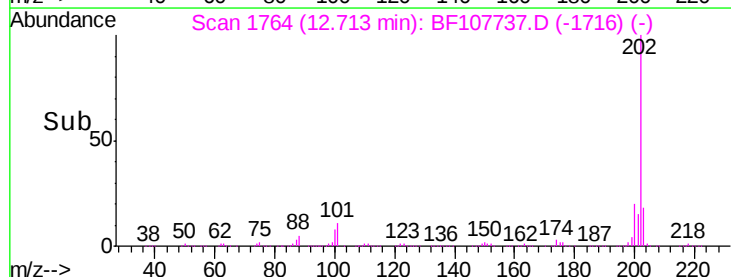
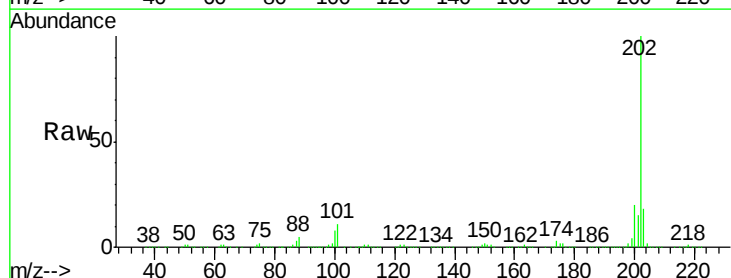
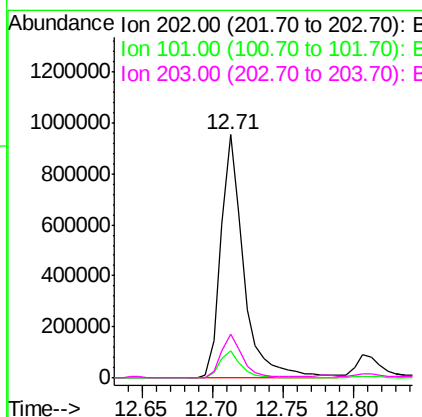
RT: 12.71 min Scan# 1764

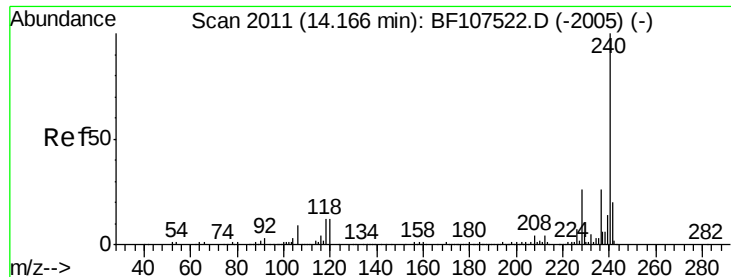
Delta R.T. -0.02 min

Lab File: BF107737.D

Acq: 27 Jul 2018 9:30

Tgt Ion:	202	Resp:	1076790
Ion Ratio		Lower	Upper
202	100		
101	11.1	0.0	34.1
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.02 min

Lab File: BF107737.D

Acq: 27 Jul 2018 9:30

Instrument :

BNA_F

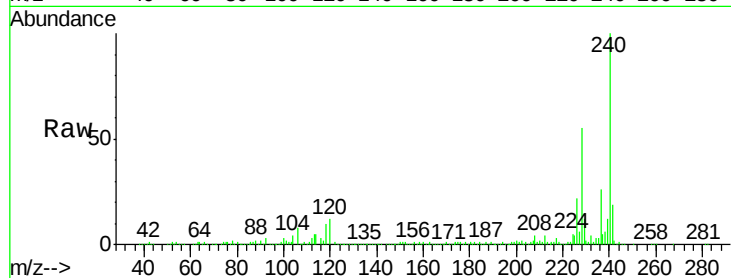
ClientSampleID :

GW-04(3-5)DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	396509		
120	11.8	9.5	14.3	
236	25.7	20.7	31.1	

Manual Integrations
APPROVED

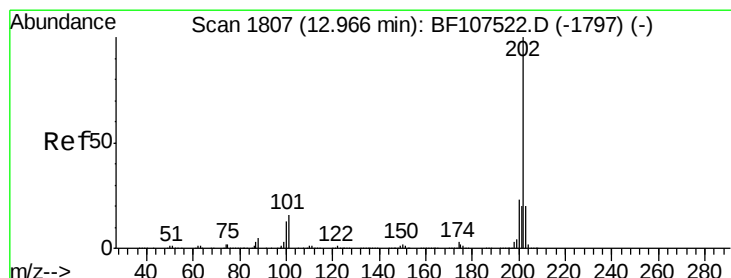
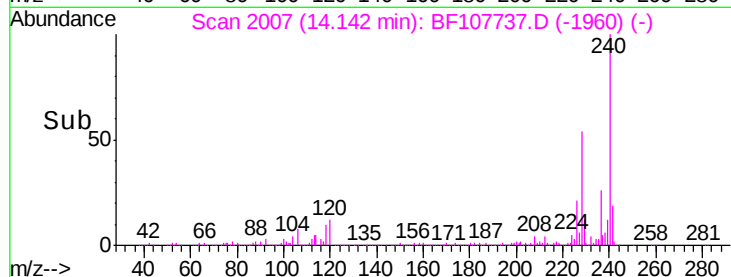
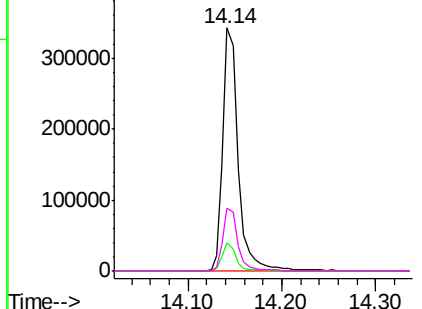
Sohil
7/27/2018 2:54:29 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 30.158 ng

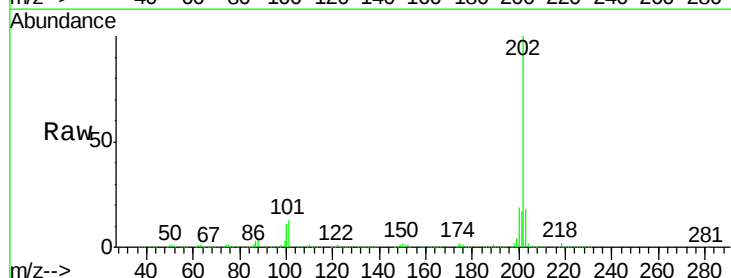
RT: 12.94 min Scan# 1803

Delta R.T. -0.02 min

Lab File: BF107737.D

Acq: 27 Jul 2018 9:30

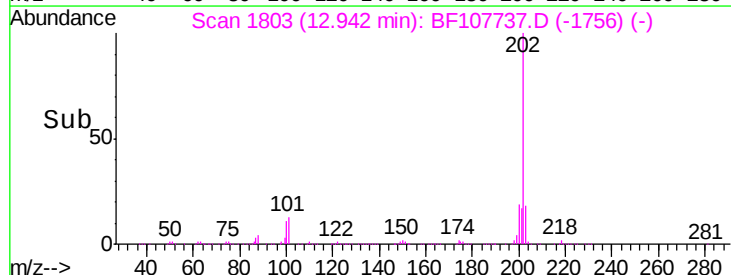
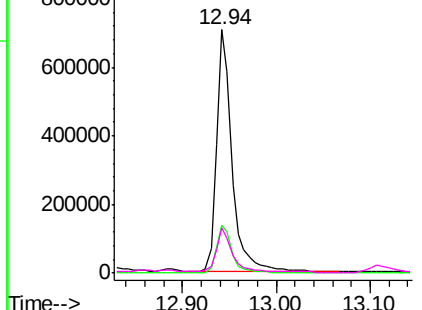
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	817937		
200	19.5	17.4	26.2	
203	18.3	14.3	21.5	

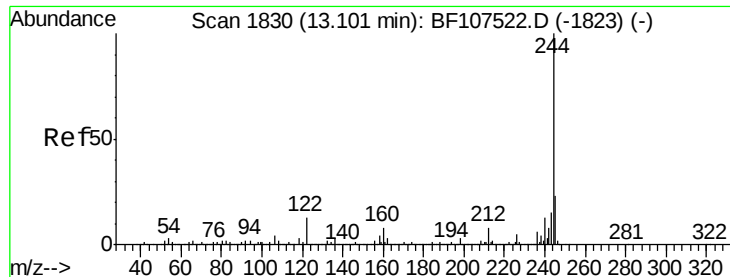


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





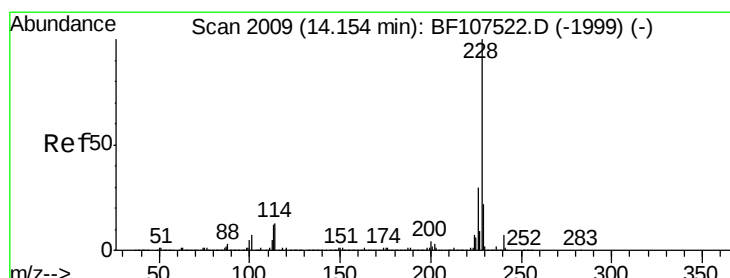
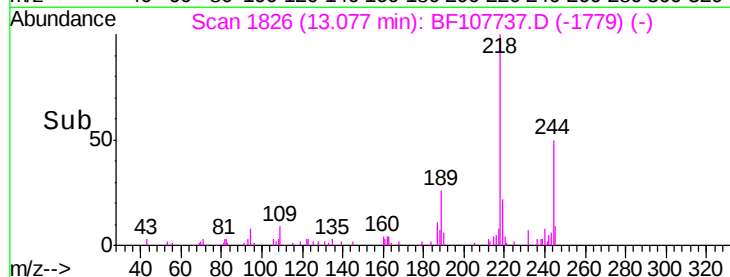
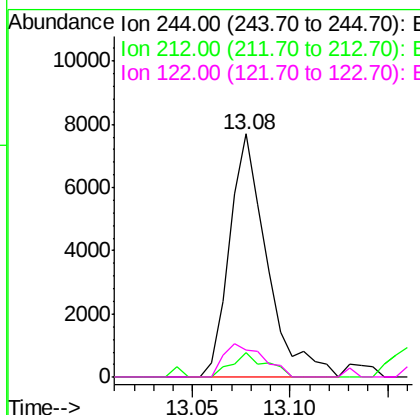
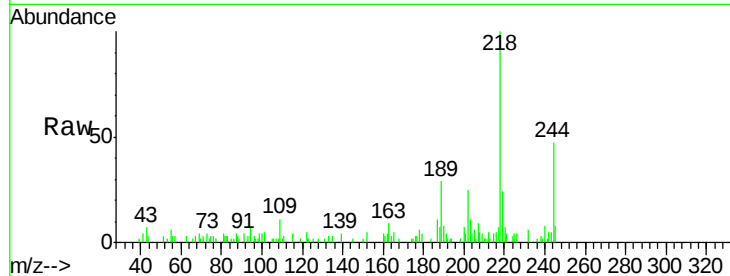
#78
 Terphenyl-d14
 Concen: 0.660 ng
 RT: 13.08 min Scan# 1826
 Delta R.T. -0.02 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Instrument :
 BNA_F
 ClientSampleID :
 GW-04(3-5)DL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	5.4	8.0#
122	16.1	11.0	16.4

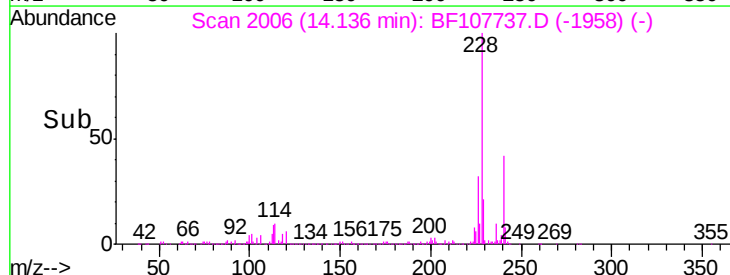
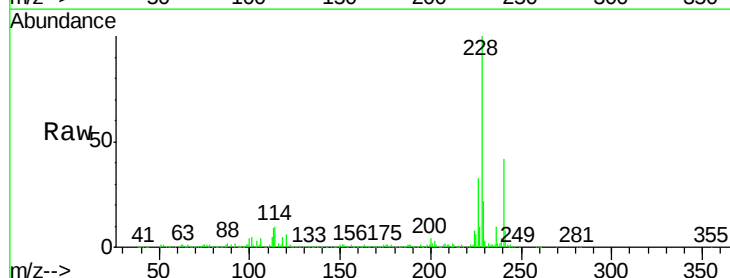
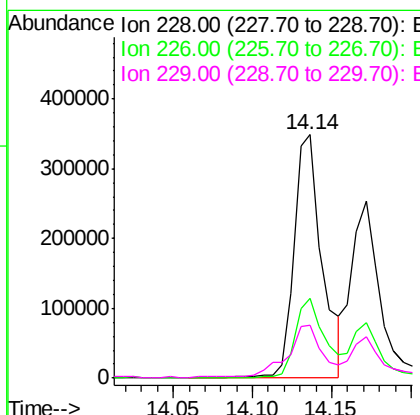
Manual Integrations
 APPROVED

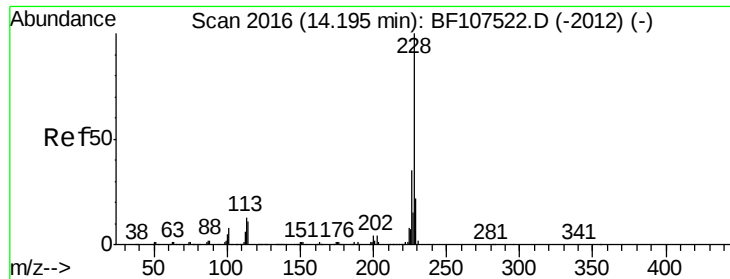
Sohil
 7/27/2018 2:54:29 PM



#80
 Benzo(a)anthracene
 Concen: 18.314 ng
 RT: 14.14 min Scan# 2006
 Delta R.T. -0.02 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.6	22.6	33.8
229	21.5	15.8	23.6





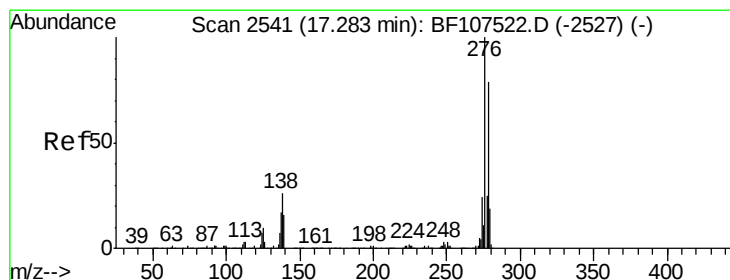
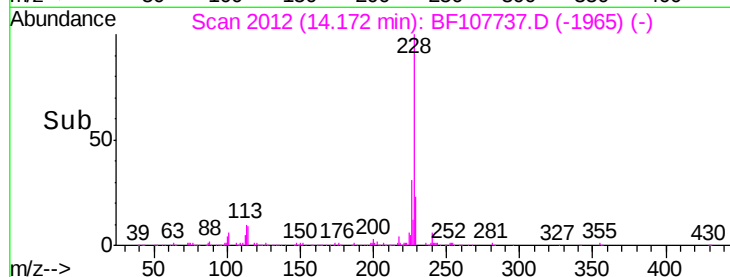
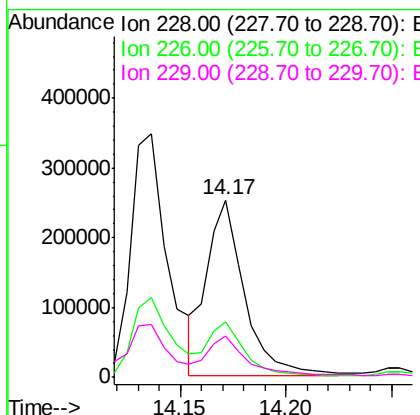
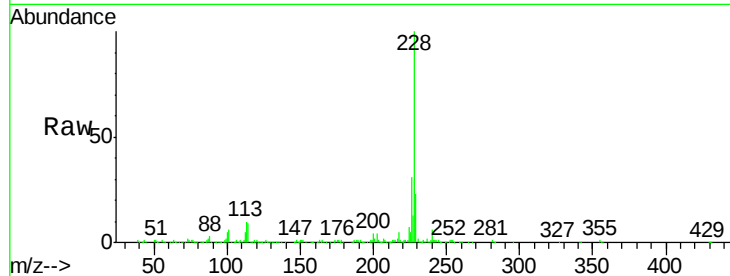
#82
Chrysene
Concen: 14.140 ng
RT: 14.17 min Scan# 2012
Delta R.T. -0.02 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.0	37.6
229	23.5	16.2	24.4

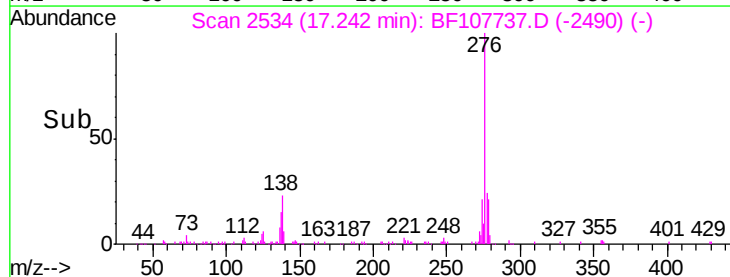
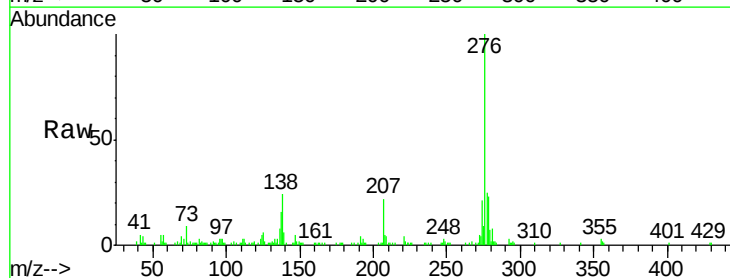
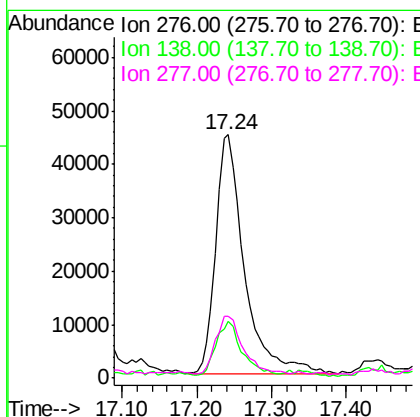
Manual Integrations
APPROVED

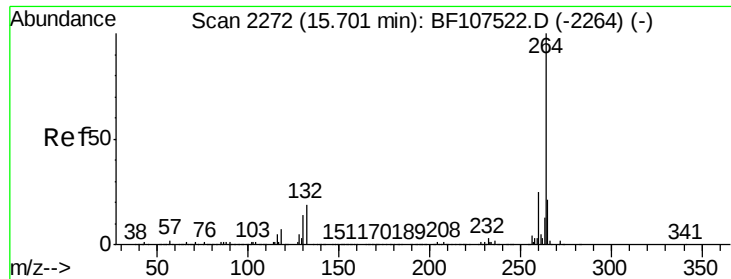
Sohil
7/27/2018 2:54:29 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 6.338 ng
RT: 17.24 min Scan# 2534
Delta R.T. -0.04 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.4	25.0	37.6#
277	22.5	20.1	30.1





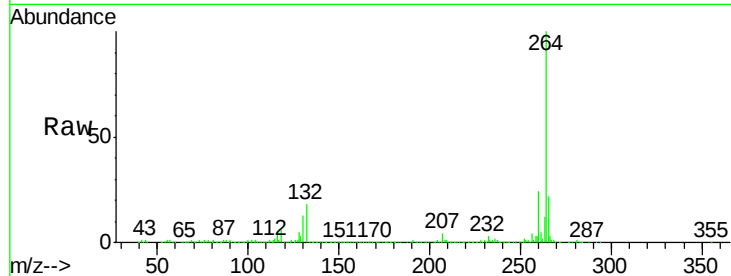
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.67 min Scan# 2267
Delta R.T. -0.03 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

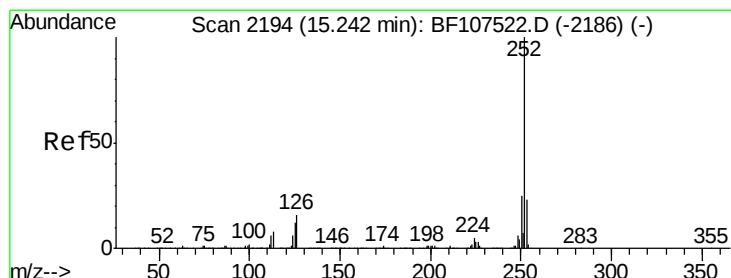
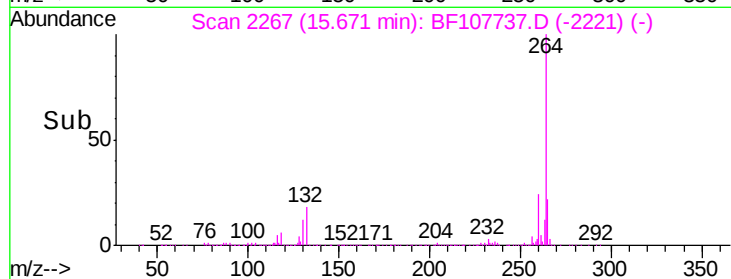
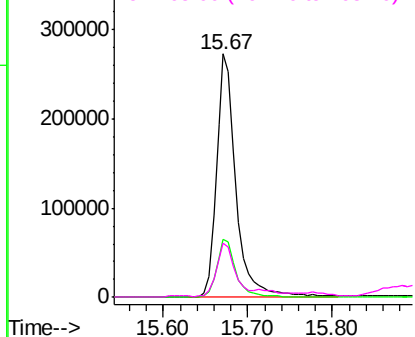
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	22.4	17.5	26.3

Manual Integrations
APPROVED

Sohil
7/27/2018 2:54:29 PM



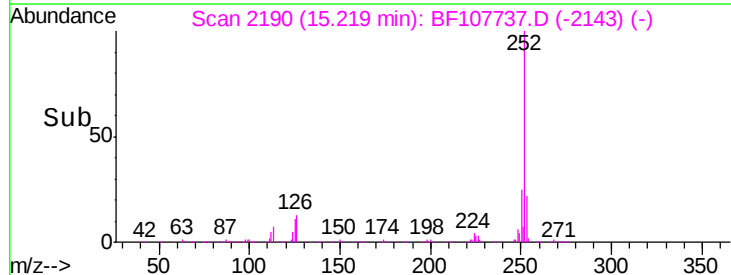
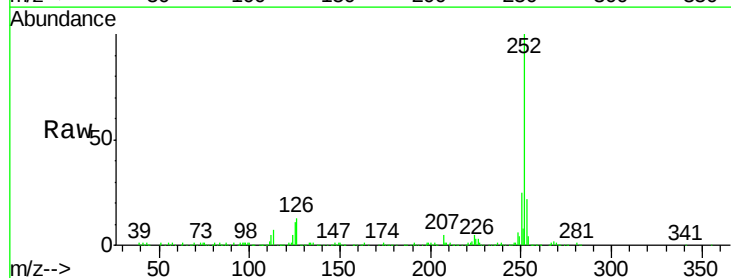
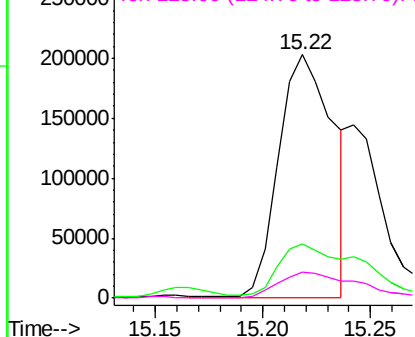
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

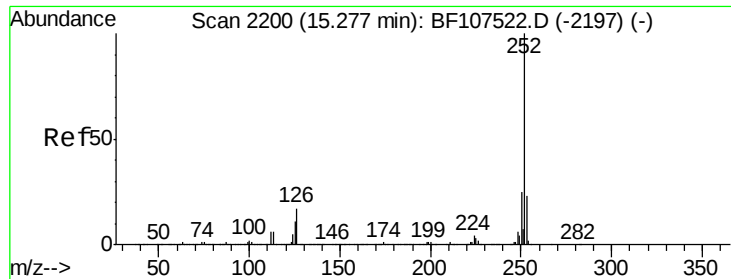


#87
Benzo(b)fluoranthene
Concen: 14.975 ng m
RT: 15.22 min Scan# 2190
Delta R.T. -0.02 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.6
125	10.8	9.0	13.6

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





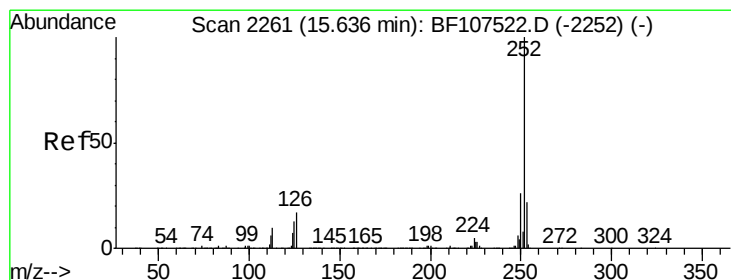
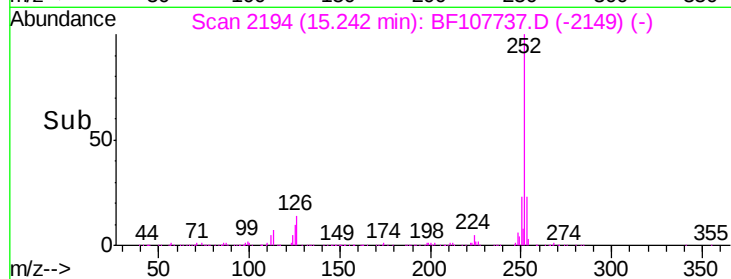
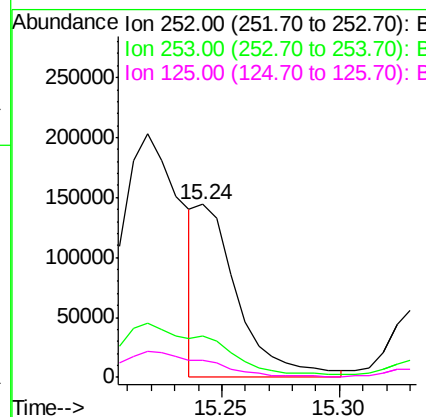
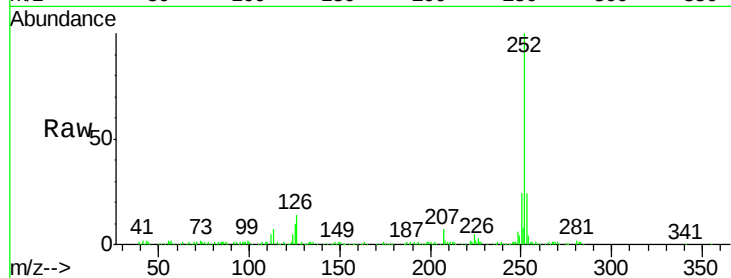
#88
Benzo(k)fluoranthene
Concen: 7.369 ng m
RT: 15.24 min Scan# 2194
Delta R.T. -0.04 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	10.2	10.2	15.2

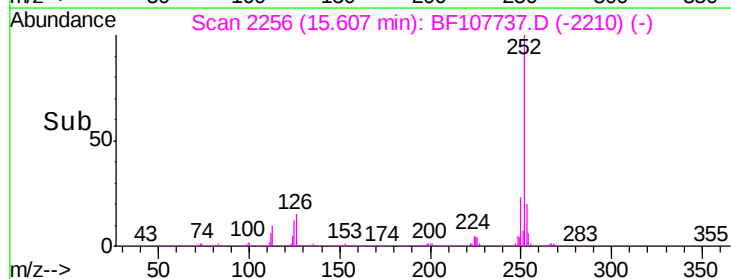
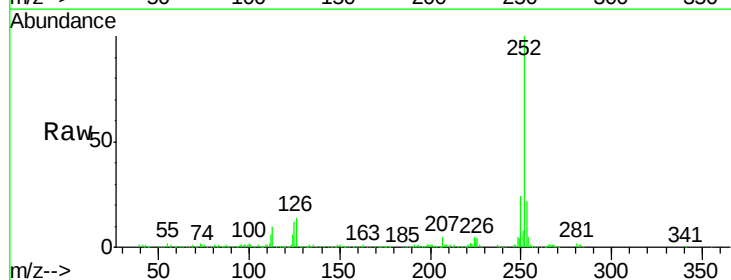
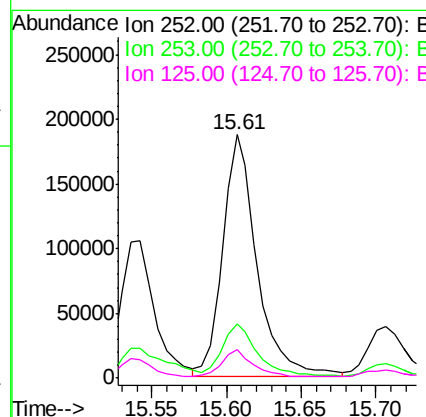
Manual Integrations
APPROVED

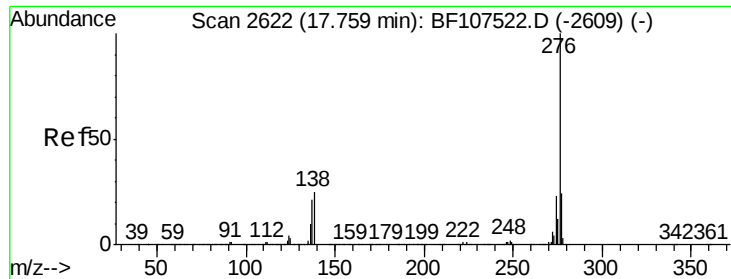
Sohil
7/27/2018 2:54:29 PM



#89
Benzo(a)pyrene
Concen: 13.641 ng
RT: 15.61 min Scan# 2256
Delta R.T. -0.03 min
Lab File: BF107737.D
Acq: 27 Jul 2018 9:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	11.6	9.8	14.6





#91
 Benzo(g,h,i)perylene
 Concen: 4.694 ng
 RT: 17.72 min Scan# 2615
 Delta R.T. -0.04 min
 Lab File: BF107737.D
 Acq: 27 Jul 2018 9:30

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(3-5)DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	27.1	17.9	26.9#
138	25.4	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 7/27/2018 2:54:29 PM

