

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072518\
 Data File : BF107667.D
 Acq On : 25 Jul 2018 19:50
 Operator : JU/SJ
 Sample : J4031-02 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PLANTER-DOC-2

Manual Integrations
 APPROVED

Sohil
 7/26/2018 2:01:25 PM

Quant Time: Jul 26 02:31:41 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	217609	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	808289	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	262133	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	399126	20.00	ng	0.01
75) Chrysene-d12	14.18	240	329567	20.00	ng	0.02
86) Perylene-d12	15.72	264	354822	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	116209	8.59	ng	-0.02
7) Phenol-d6	6.60	99	182407	11.22	ng	-0.02
23) Nitrobenzene-d5	7.53	82	89777	7.50	ng	-0.02
41) 2,4,6-Tribromophenol	10.82	330	33906	11.37	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	207990	7.30	ng	-0.01
78) Terphenyl-d14	13.11	244	168996	13.13	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	636650	17.912	ng	98
37) 2-Methylnaphthalene	8.97	142	252214	10.240	ng	97
45) 1,1'-Biphenyl	9.43	154	89577	3.923	ng	97
48) Acenaphthylene	9.88	152	961824	36.683	ng	93
51) Acenaphthene	10.05	154	532754	32.429	ng	97
54) Dibenzofuran	10.23	168	174655	7.221	ng	# 65
57) Fluorene	10.58	166	546737	31.687	ng	# 97
70) Phenanthrene	11.55	178	1590474	81.774	ng	96
71) Anthracene	11.61	178	1046698m	53.450	ng	
72) Carbazole	11.76	167	104684	5.141	ng	# 29
74) Fluoranthene	12.77	202	4522706	216.700	ng	94
77) Pyrene	13.00	202	5336917m	236.747	ng	
80) Benzo(a)anthracene	14.18	228	3008577	155.778	ng	# 86
82) Chrysene	14.21	228	2751687	148.321	ng	# 92
85) Indeno(1,2,3-cd)pyrene	17.34	276	1472103	93.624	ng	# 87
87) Benzo(b)fluoranthene	15.28	252	3299985m	169.936	ng	
88) Benzo(k)fluoranthene	15.30	252	768122m	40.374	ng	
89) Benzo(a)pyrene	15.68	252	2722912	153.290	ng	95
90) Dibenzo(a,h)anthracene	17.33	278	380471	24.778	ng	# 92
91) Benzo(a,h,i)perylene	17.82	276	1585424	104.676	ng	92

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

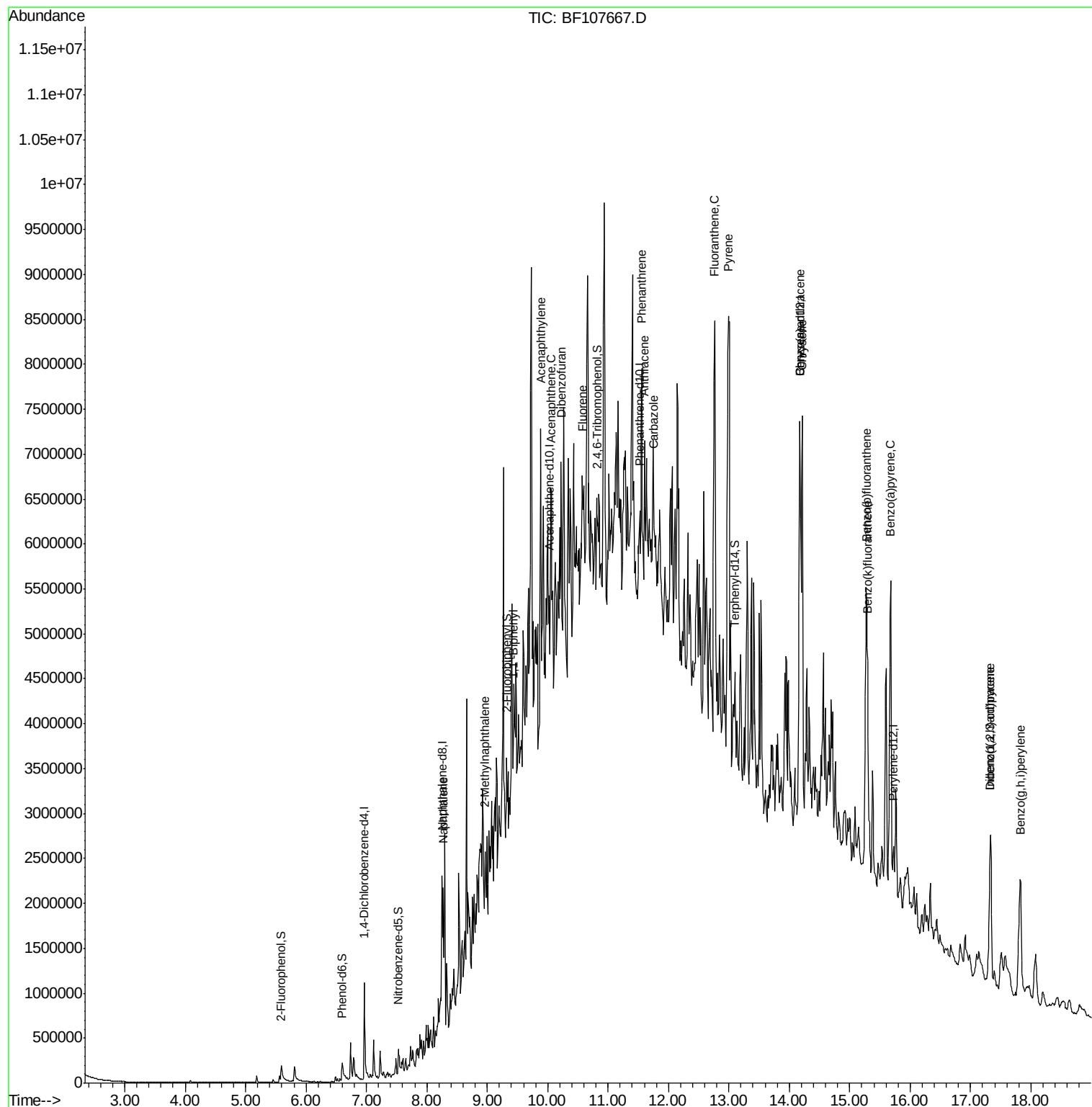
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072518\
Data File : BF107667.D
Acq On : 25 Jul 2018 19:50
Operator : JU/SJ
Sample : J4031-02 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

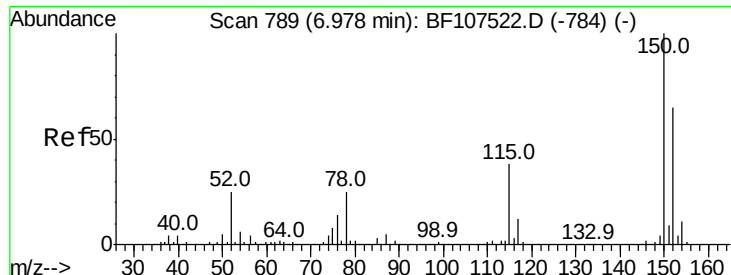
Instrument :
BNA_F
ClientSampleId :
PLANTER-DOC-2

Quant Time: Jul 26 02:31:41 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

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM





#1

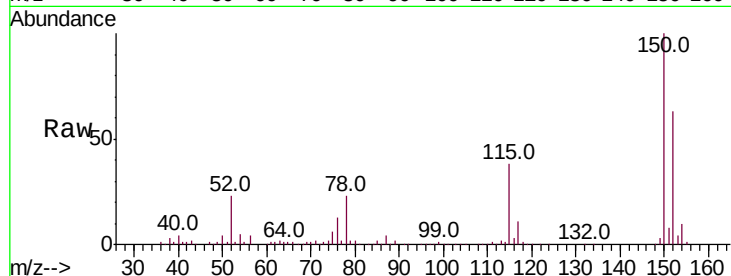
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Instrument :
BNA_F
ClientSampleId :
PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.2	124.6	186.8
115	60.2	50.1	75.1

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM

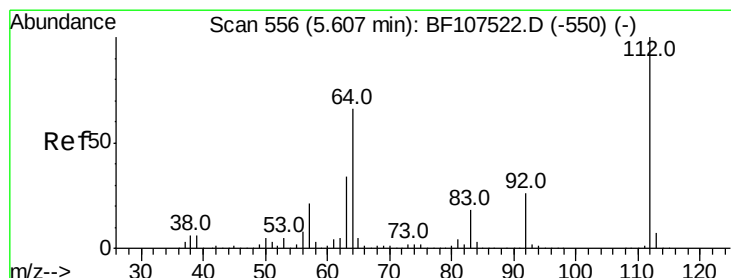
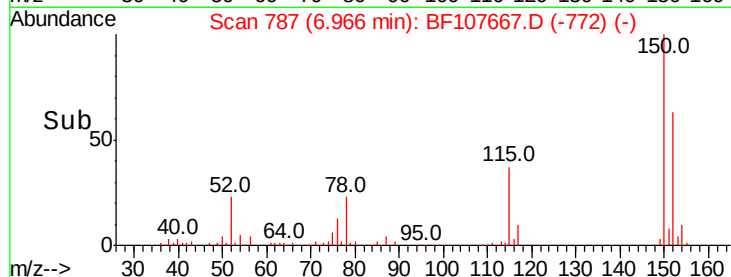
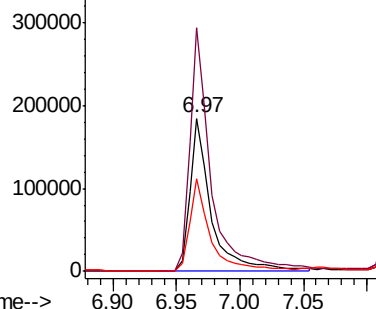


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

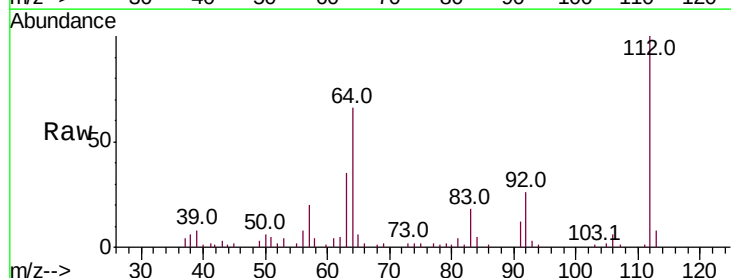
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 8.586 ng
RT: 5.59 min Scan# 553
Delta R.T. -0.02 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.8	47.9	71.9
63	34.8	23.7	35.5

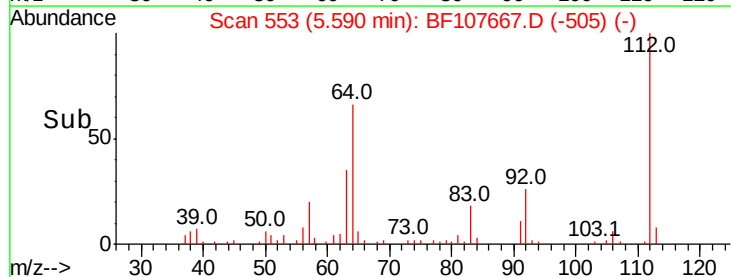
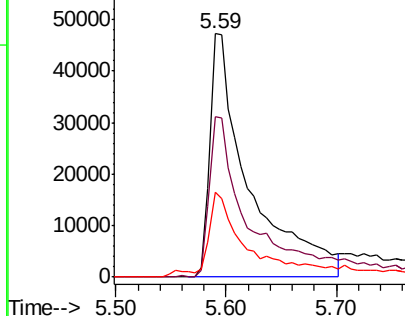


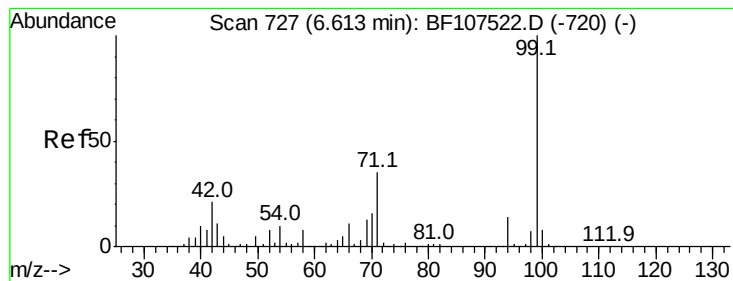
Abundance

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: 11.224 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Instrument :

BNA_F

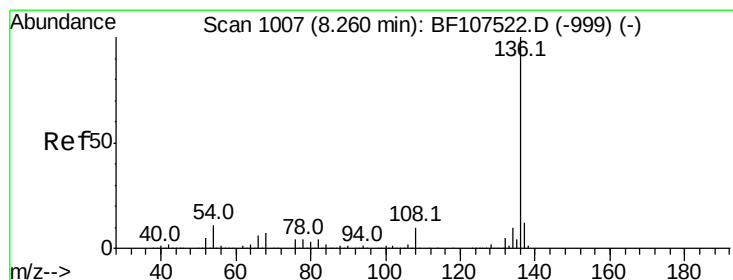
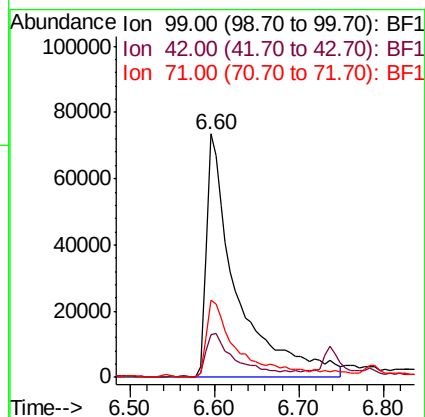
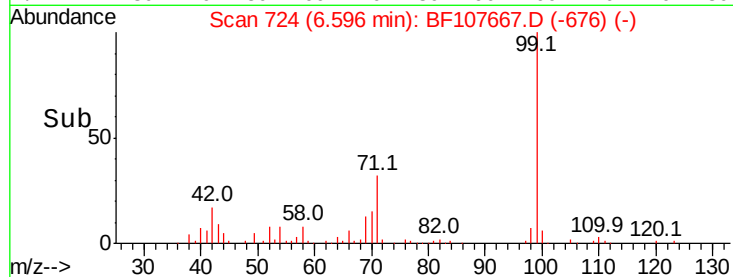
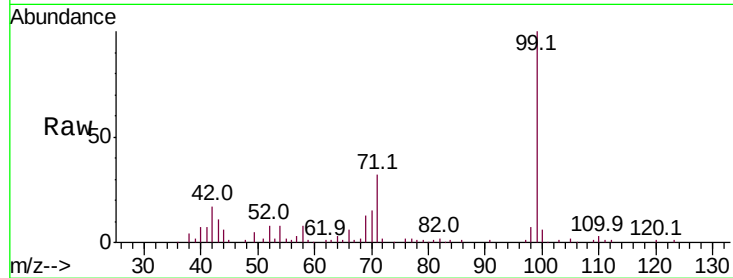
ClientSampleId :

PLANTER-DOC-2

Tot Ion:	99	Resp:	182407
Ion Ratio	Lower	Upper	
99	100		
42	17.5	14.5	21.7
71	31.9	25.4	38.0

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM



#21

Naphthalene-d8

Concen: 20.000 ng

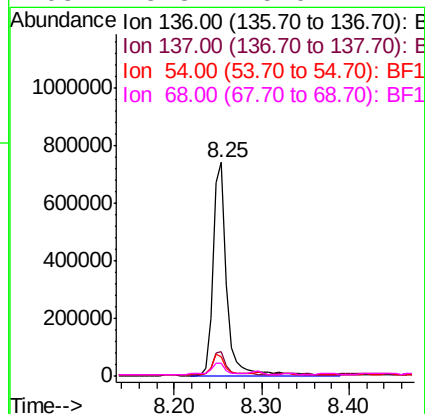
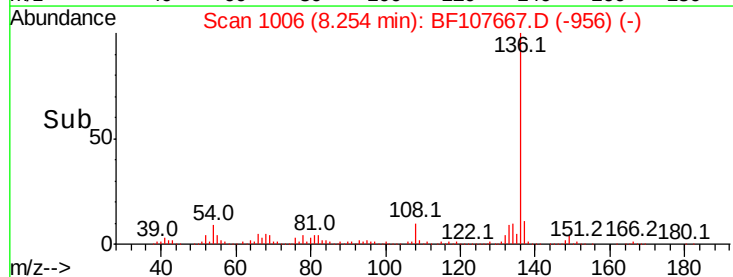
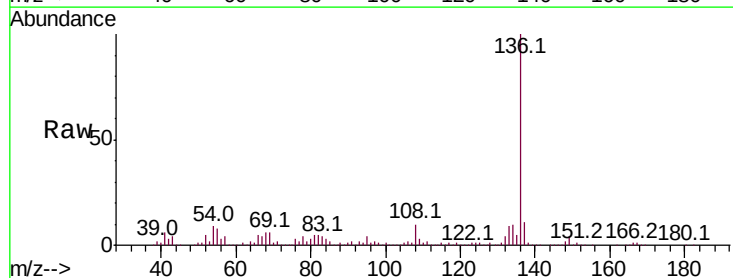
RT: 8.25 min Scan# 1006

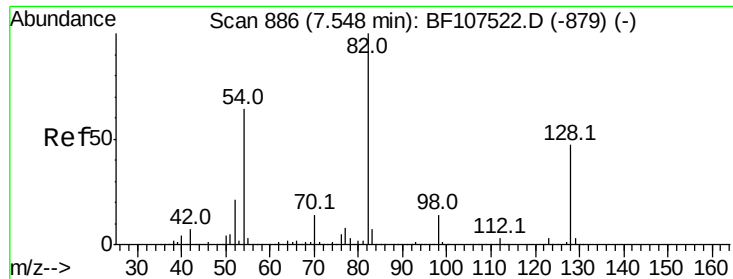
Delta R.T. -0.01 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Tgt Ion:	136	Resp:	808289
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.9	13.3
54	9.0	6.6	9.8
68	5.8	5.0	7.4





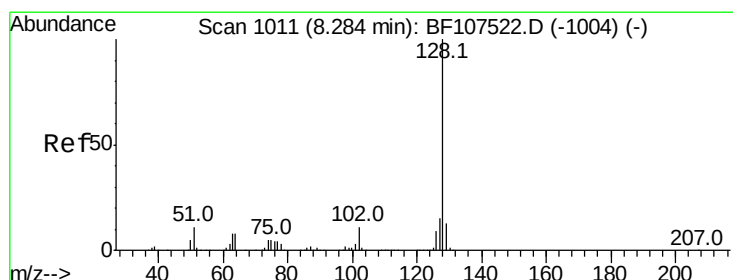
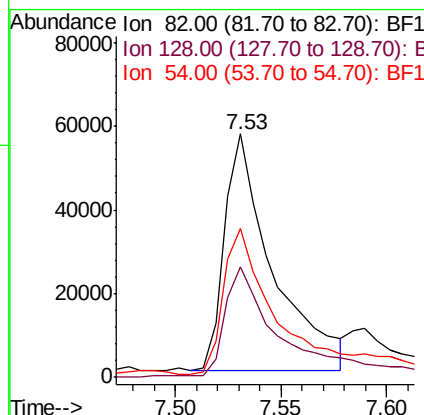
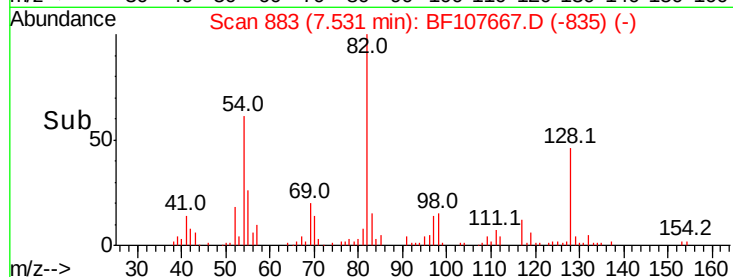
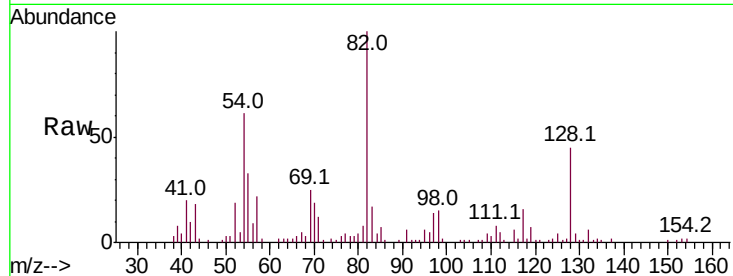
#23
Nitrobenzene-d5
Concen: 7.496 ng
RT: 7.53 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Instrument :
BNA_F
ClientSampleId :
PLANTER-DOC-2

Tot Ion	82	Resp	89777
Ion Ratio	Lower	Upper	
82	100		
128	45.2	36.1	54.1
54	61.1	41.4	62.2

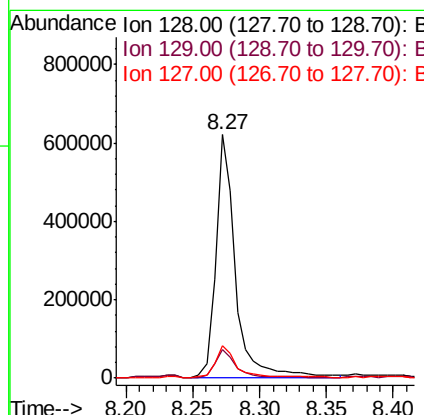
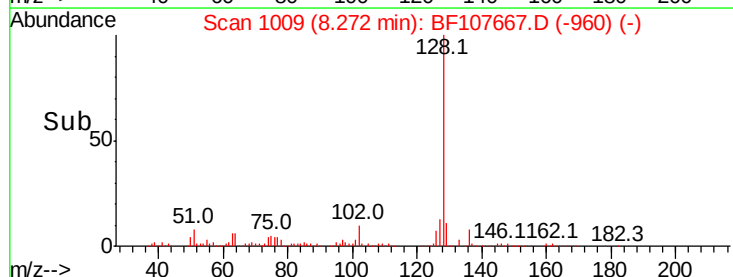
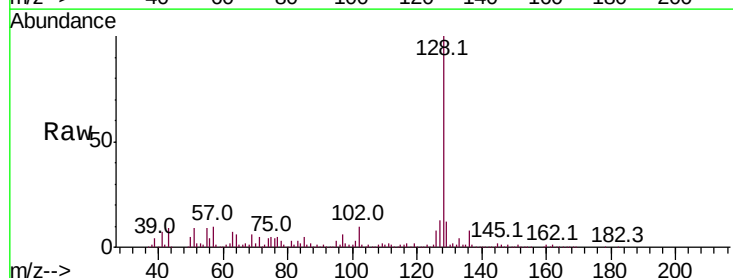
Manual Integrations
APPROVED

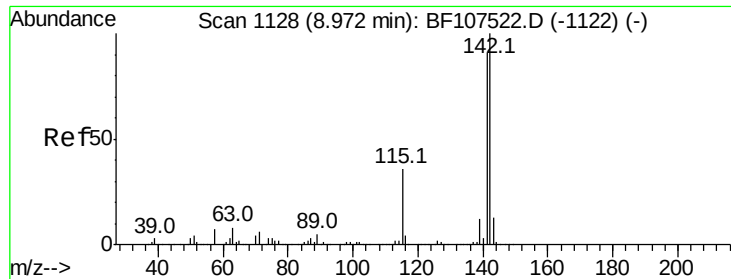
Sohil
7/26/2018 2:01:25 PM



#31
Naphthalene
Concen: 17.912 ng
RT: 8.27 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Tgt Ion	128	Resp	636650
Ion Ratio	Lower	Upper	
128	100		
129	11.9	8.8	13.2
127	13.3	10.9	16.3





#37

2-Methylnaphthalene

Concen: 10.240 ng

RT: 8.97 min Scan# 1127

Delta R.T. -0.01 min

Lab File: BF107667.D

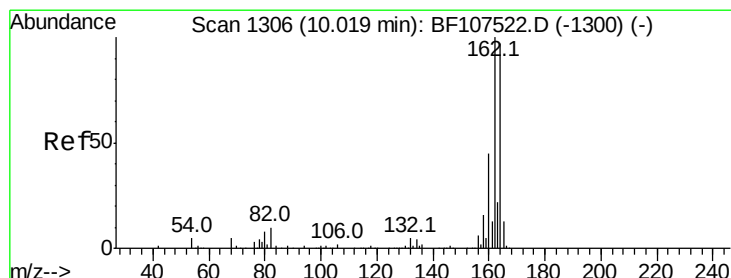
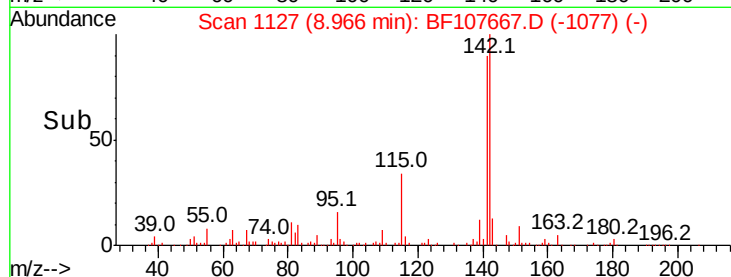
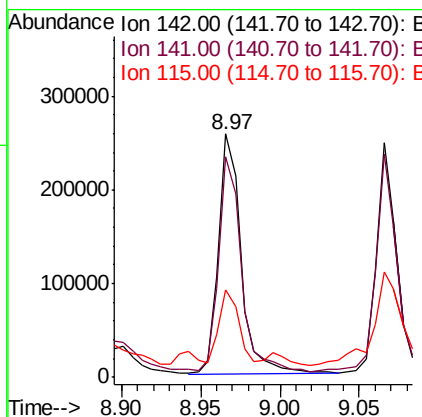
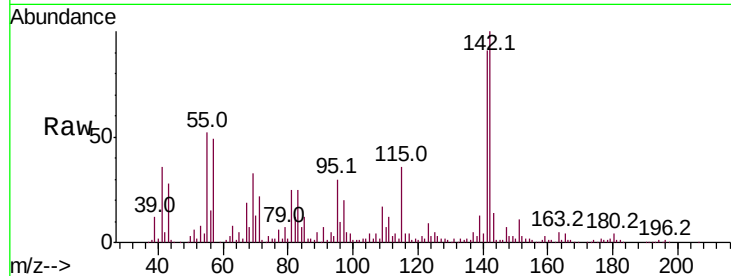
Acq: 25 Jul 2018 19:50

Instrument :
BNA_F
ClientSampled :
PLANTER-DOC-2

Tot Ion	Ratio	Resp	Lower	Upper
142	100	252214		
141	90.6	70.8	106.2	
115	36.1	26.1	39.1	

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM



#38

Acenaphthene-d10

Concen: 20.000 ng

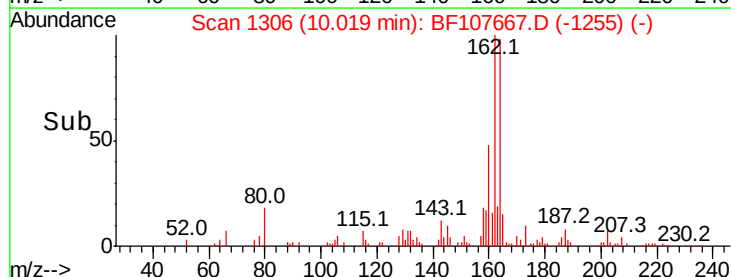
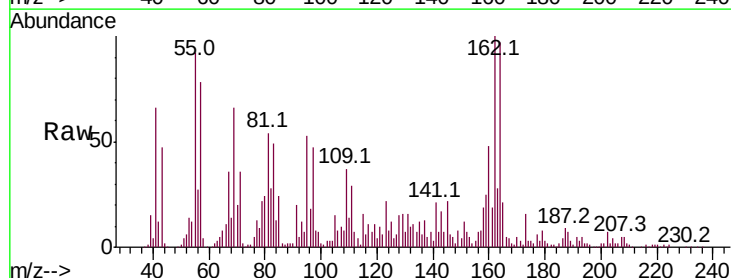
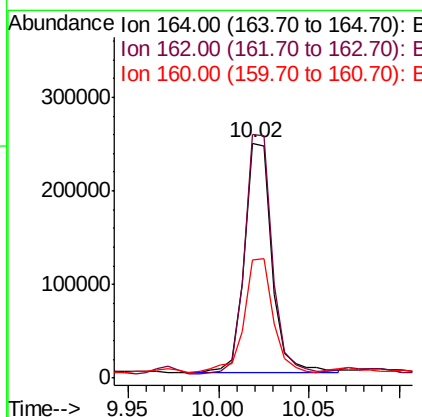
RT: 10.02 min Scan# 1306

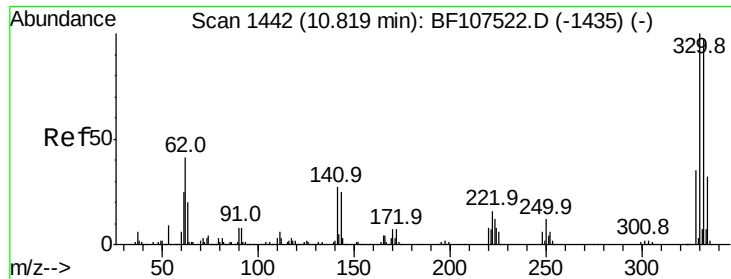
Delta R.T. 0.00 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	262133		
162	103.5	86.1	129.1	
160	50.1	38.3	57.5	





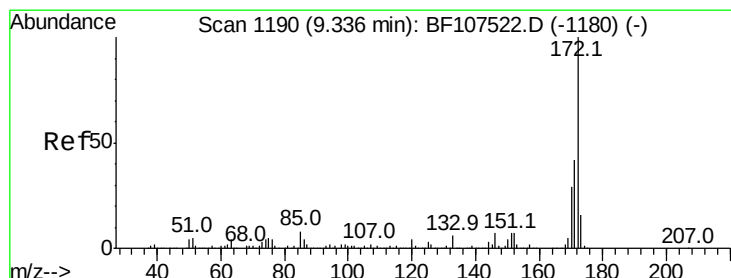
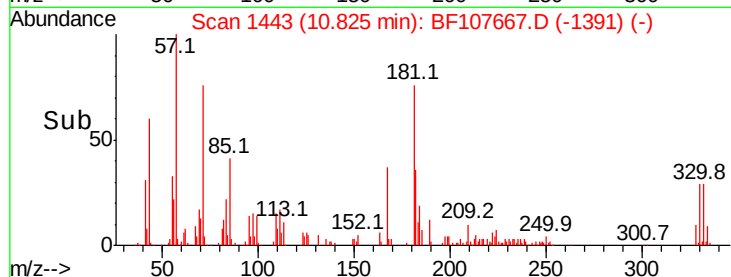
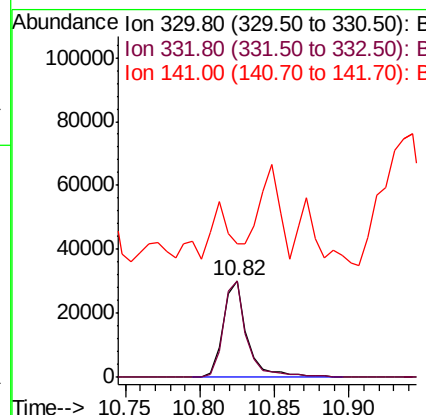
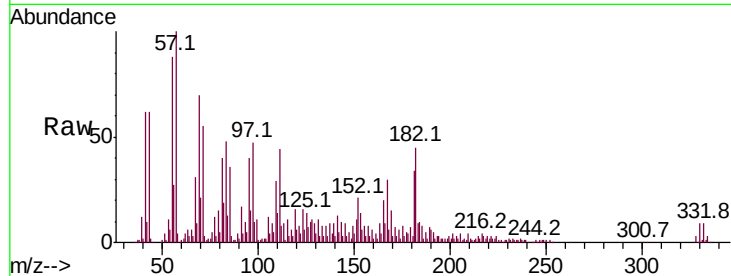
#41
 2,4,6-Tribromophenol
 Concen: 11.375 ng
 RT: 10.82 min Scan# 1443
 Delta R.T. 0.01 min
 Lab File: BF107667.D
 Acq: 25 Jul 2018 19:50

Instrument :
 BNA_F
 ClientSampled :
 PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.0	115.6
141	49.8	29.9	44.9#

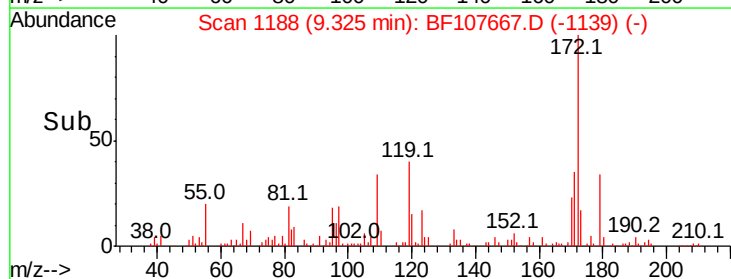
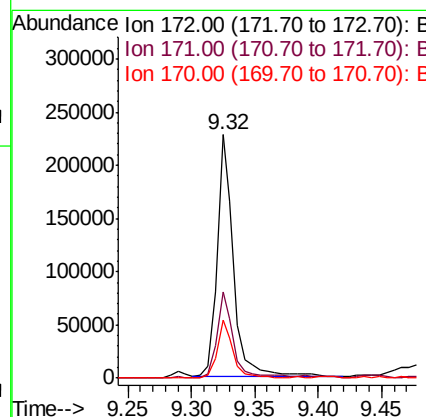
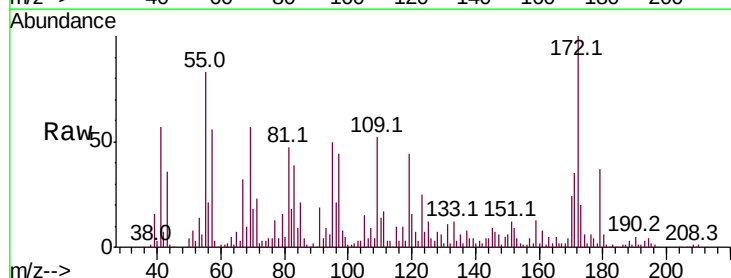
Manual Integrations
 APPROVED

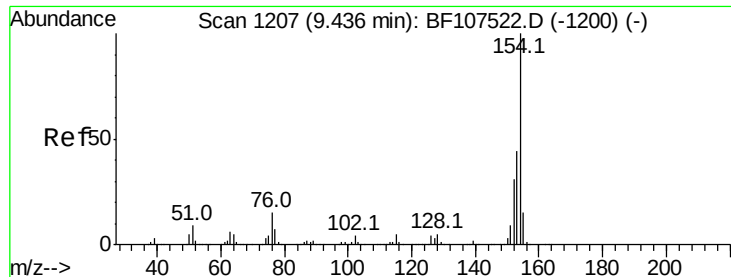
Sohil
 7/26/2018 2:01:25 PM



#44
 2-Fluorobiphenyl
 Concen: 7.300 ng
 RT: 9.32 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF107667.D
 Acq: 25 Jul 2018 19:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.7	44.5
170	23.7	19.6	29.4





#45

1,1'-Biphenyl

Concen: 3.923 ng

RT: 9.43 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Instrument :

BNA_F

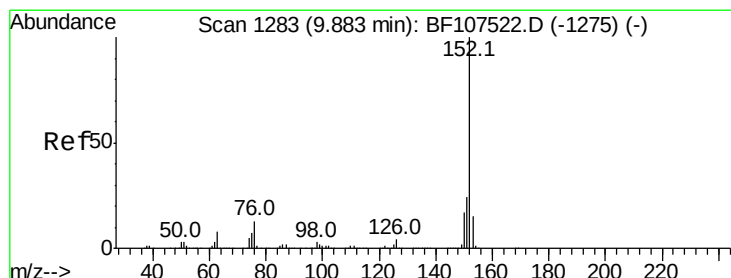
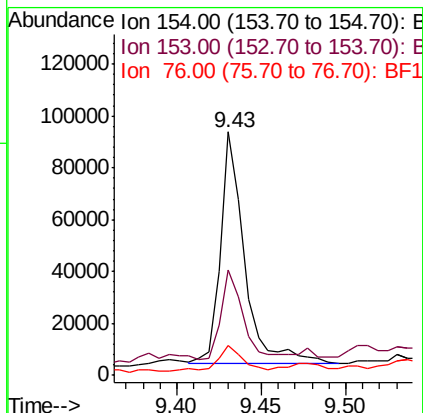
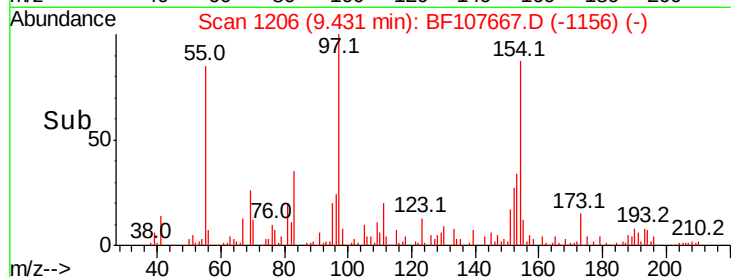
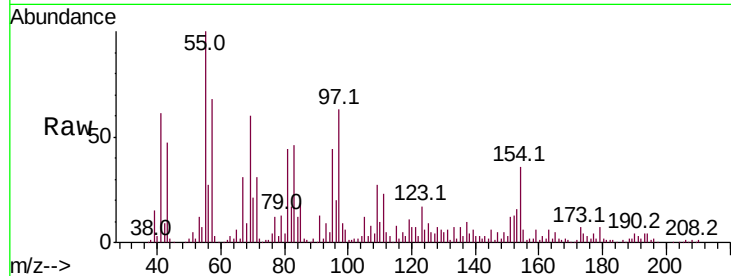
ClientSampleId :

PLANTER-DOC-2

Tot Ion:	154	Resp:	89577
Ion Ratio	Lower	Upper	
154	100		
153	43.2	21.3	61.3
76	12.5	0.0	34.0

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM



#48

Acenaphthylene

Concen: 36.683 ng

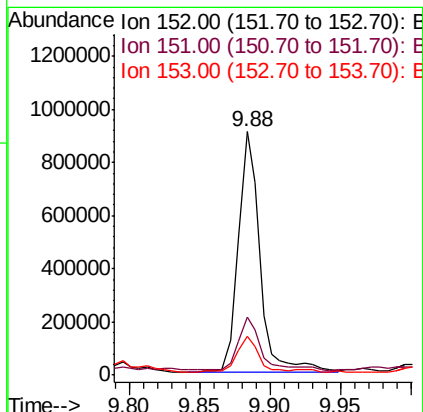
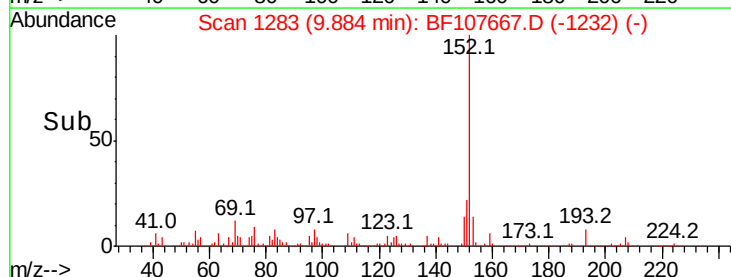
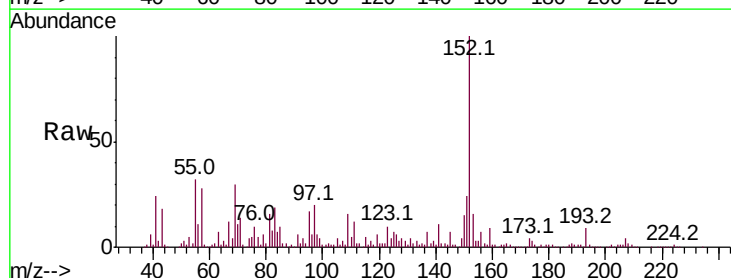
RT: 9.88 min Scan# 1283

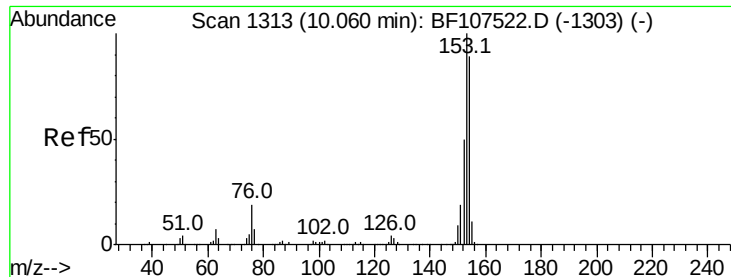
Delta R.T. 0.00 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Tgt Ion:	152	Resp:	961824
Ion Ratio	Lower	Upper	
152	100		
151	23.8	16.3	24.5
153	15.8	10.7	16.1





#51

Acenaphthene

Concen: 32.429 ng

RT: 10.05 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Instrument :

BNA_F

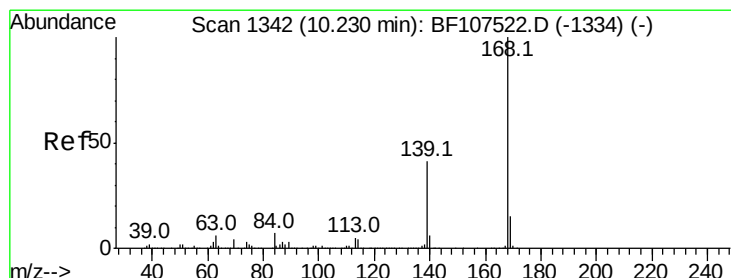
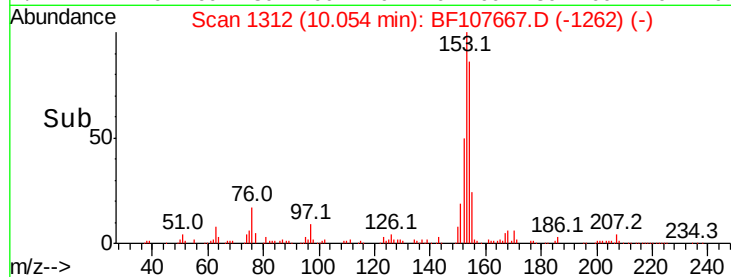
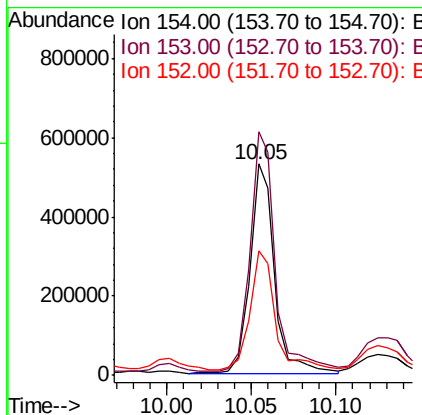
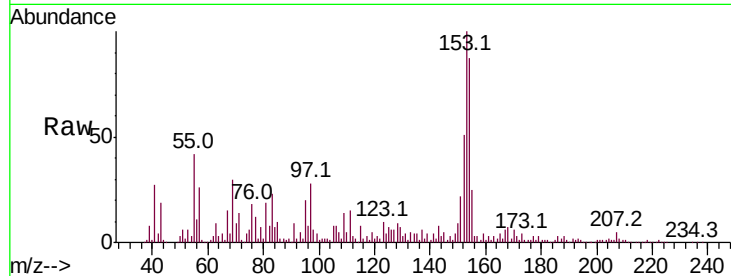
ClientSampleId :

PLANTER-DOC-2

Tot Ion:	154	Resp:	532754
Ion Ratio	Lower	Upper	
154	100		
153	115.2	91.2	136.8
152	58.8	43.8	65.8

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM



#54

Dibenzofuran

Concen: 7.221 ng

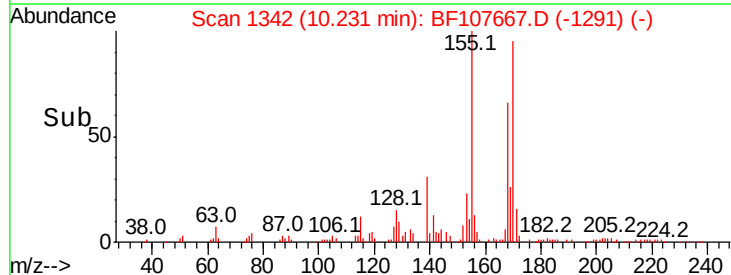
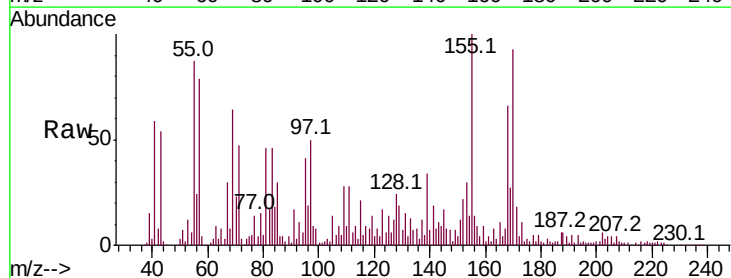
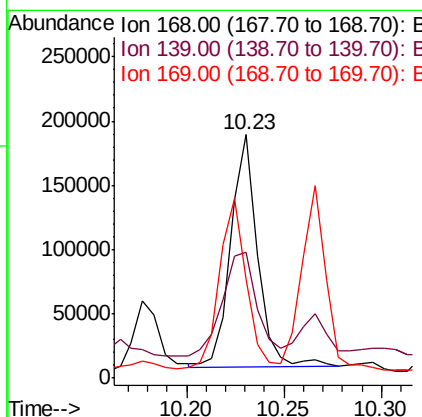
RT: 10.23 min Scan# 1342

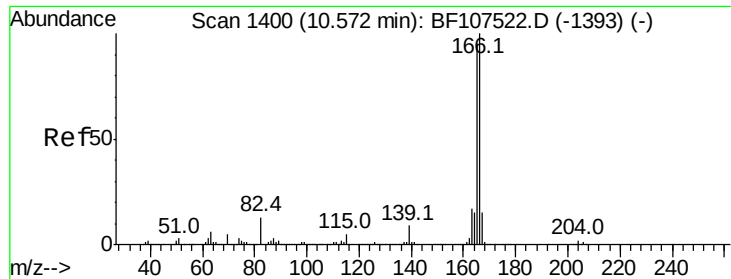
Delta R.T. 0.00 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Tgt Ion:	168	Resp:	174655
Ion Ratio	Lower	Upper	
168	100		
139	51.6	30.1	45.1#
169	40.7	10.9	16.3#





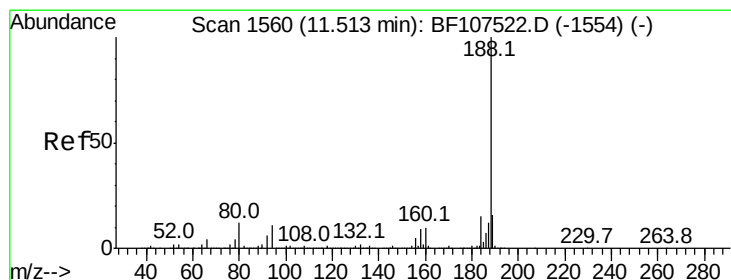
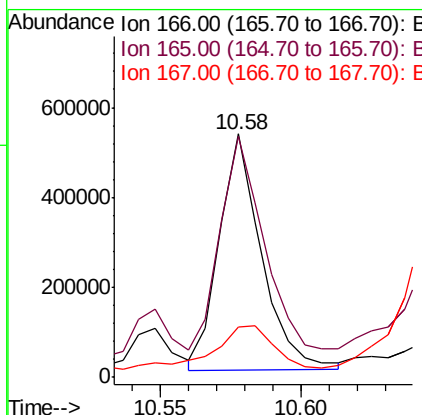
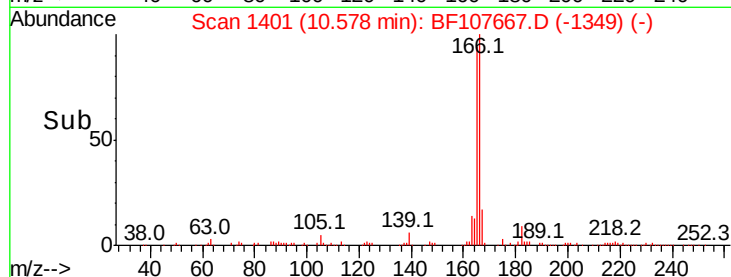
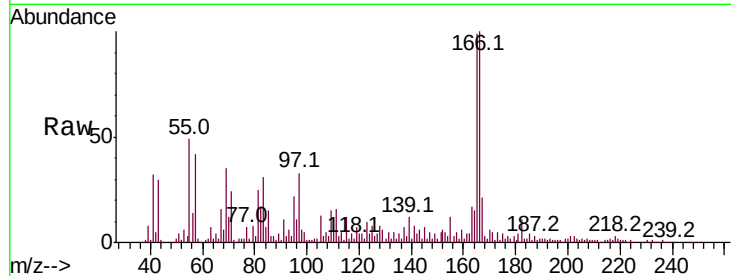
#57
 Fluorene
 Concen: 31.687 ng
 RT: 10.58 min Scan# 1401
 Delta R.T. 0.01 min
 Lab File: BF107667.D
 Acq: 25 Jul 2018 19:50

Instrument :
 BNA_F
 ClientSampleId :
 PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.8	119.8
167	20.8	10.6	16.0

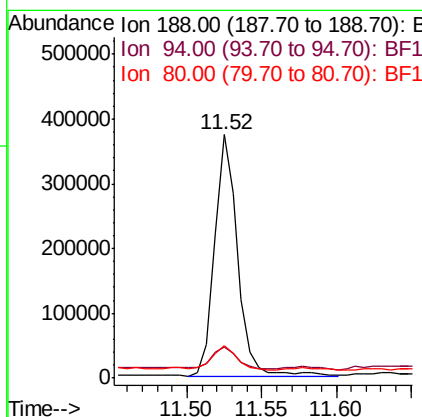
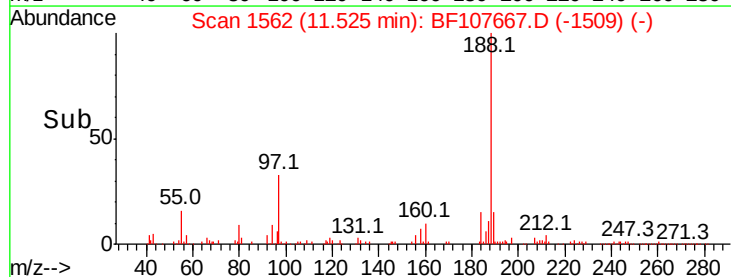
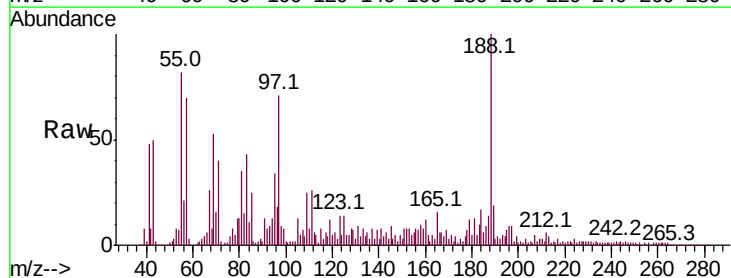
Manual Integrations
 APPROVED

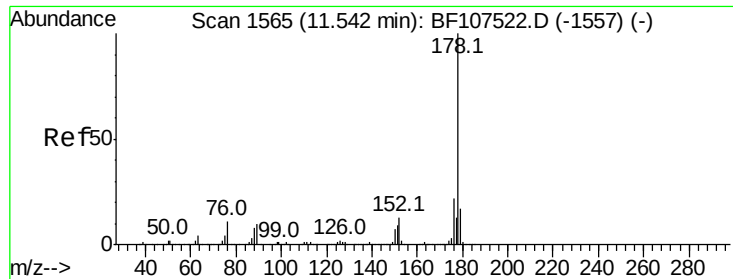
Sohil
 7/26/2018 2:01:25 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.52 min Scan# 1562
 Delta R.T. 0.01 min
 Lab File: BF107667.D
 Acq: 25 Jul 2018 19:50

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.7	8.5	12.7
80	13.3	9.2	13.8





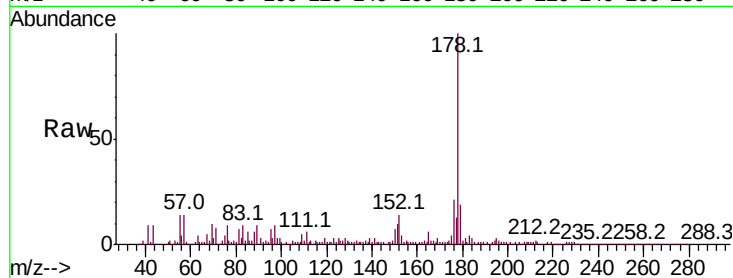
#70
Phenanthrene
Concen: 81.774 ng
RT: 11.55 min Scan# 1567
Delta R.T. 0.01 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Instrument :
BNA_F
ClientSampleId :
PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
178	100		
176	21.2	15.8	23.8
179	18.9	13.0	19.6

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM

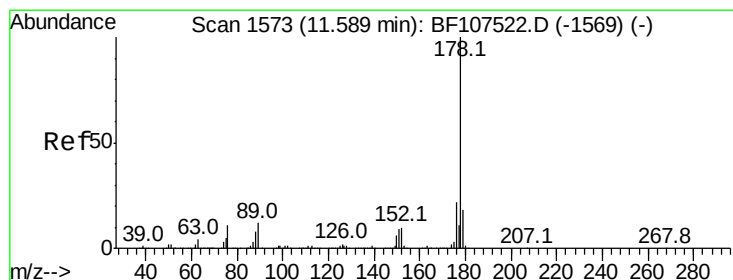
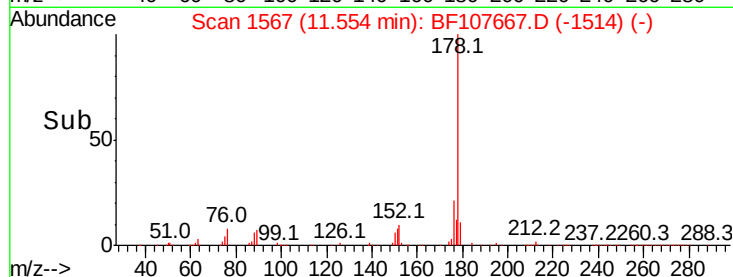
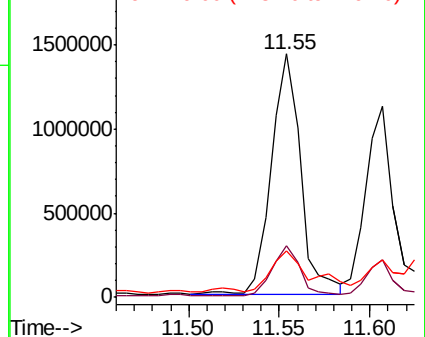


Abundance

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



#71
Anthracene
Concen: 53.450 ng m
RT: 11.61 min Scan# 1576
Delta R.T. 0.02 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

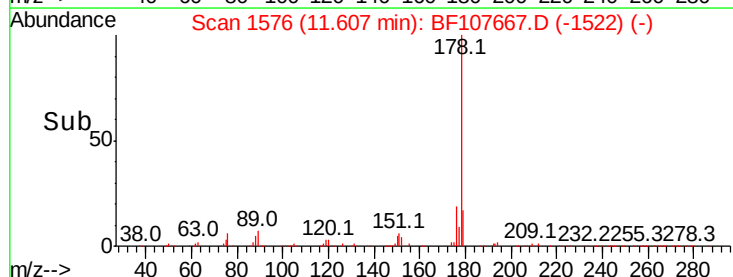
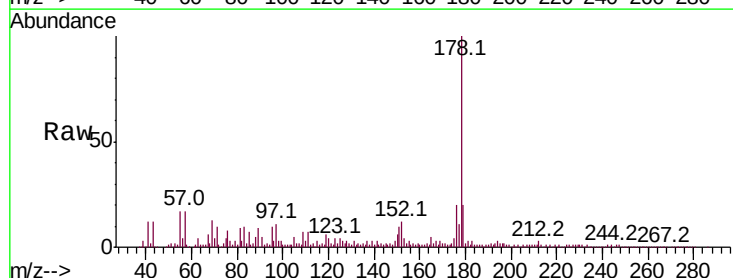
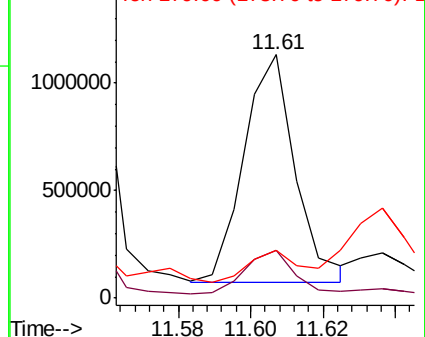
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	19.9	12.6	19.0

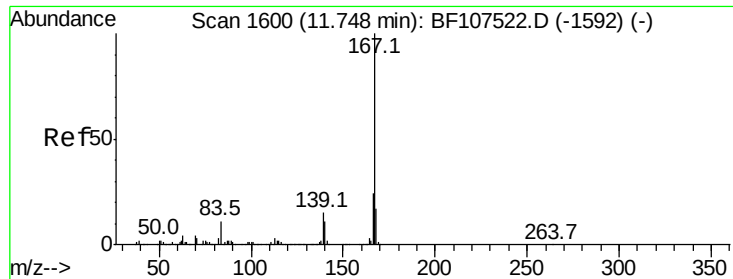
Abundance

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





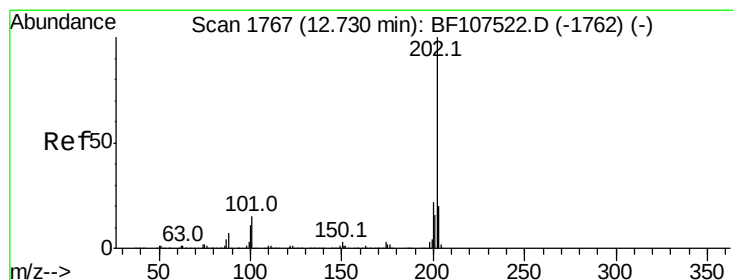
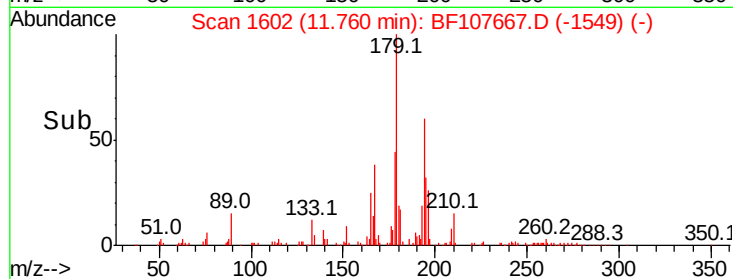
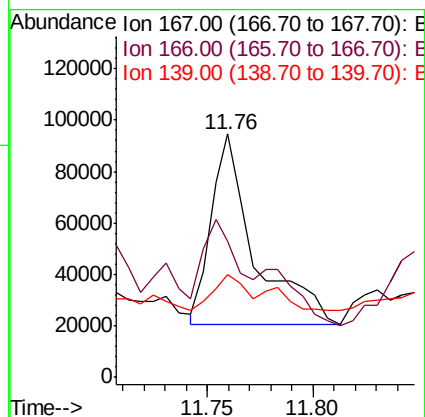
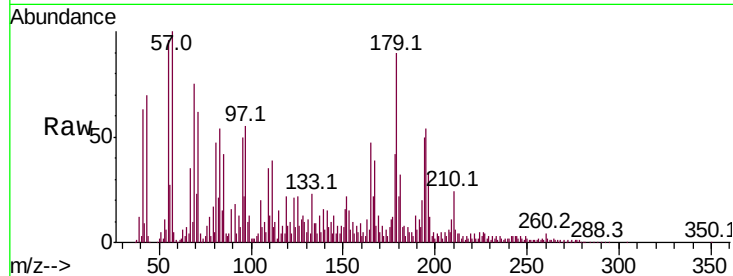
#72
 Carbazole
 Concen: 5.141 ng
 RT: 11.76 min Scan# 1602
 Delta R.T. 0.01 min
 Lab File: BF107667.D
 Acq: 25 Jul 2018 19:50

Instrument :
 BNA_F
 ClientSampleId :
 PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
167	100		
166	55.8	17.6	26.4#
139	42.0	10.9	16.3#

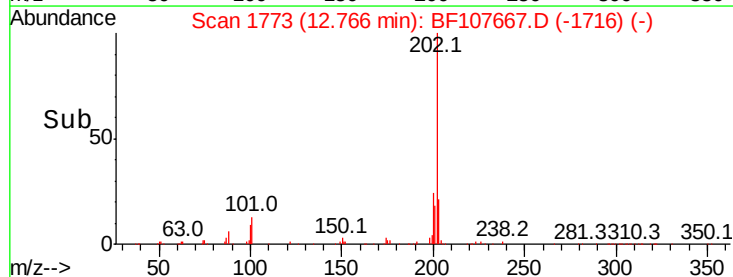
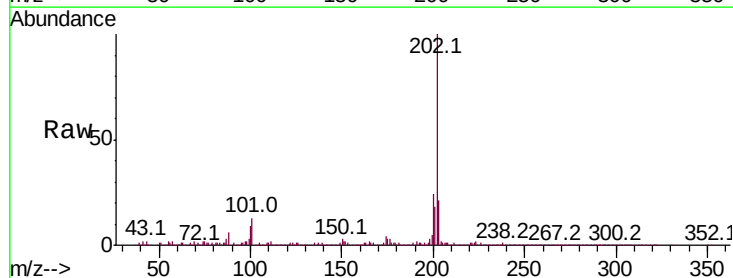
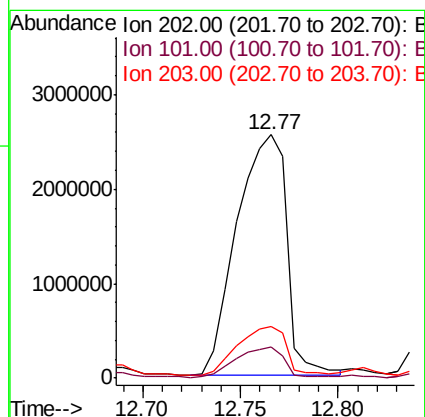
Manual Integrations
 APPROVED

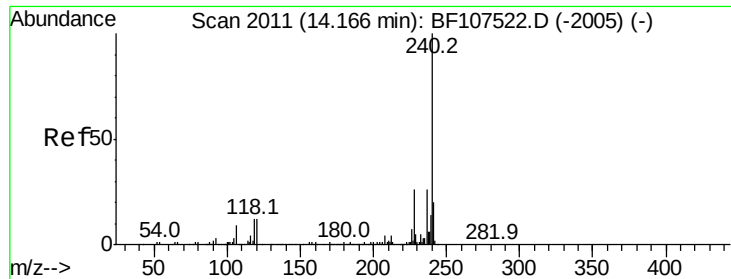
Sohil
 7/26/2018 2:01:25 PM



#74
 Fluoranthene
 Concen: 216.700 ng
 RT: 12.77 min Scan# 1773
 Delta R.T. 0.04 min
 Lab File: BF107667.D
 Acq: 25 Jul 2018 19:50

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	34.1
203	21.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.18 min Scan# 2014

Delta R.T. 0.02 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Instrument :

BNA_F

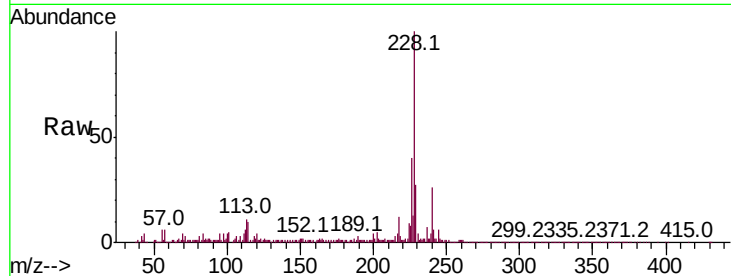
ClientSampleId :

PLANTER-DOC-2

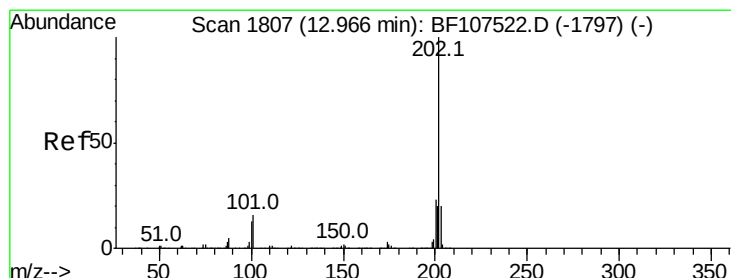
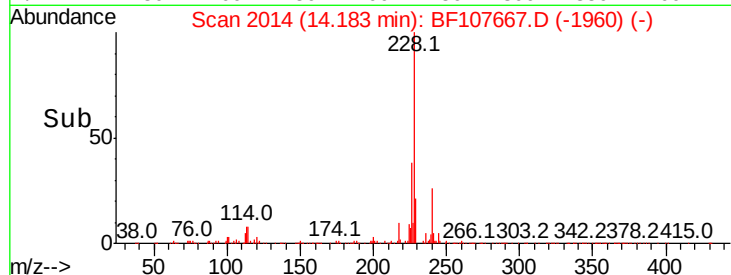
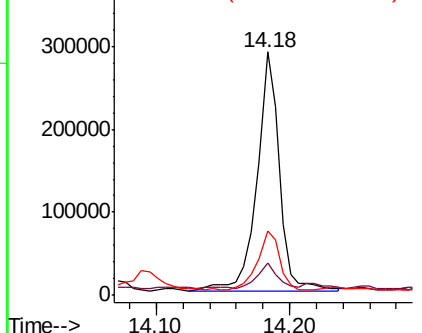
Tot Ion:	240	Resp:	329567
Ion Ratio	Lower	Upper	
240	100		
120	13.4	9.5	14.3
236	26.2	20.7	31.1

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 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: 236.747 ng m

RT: 13.00 min Scan# 1813

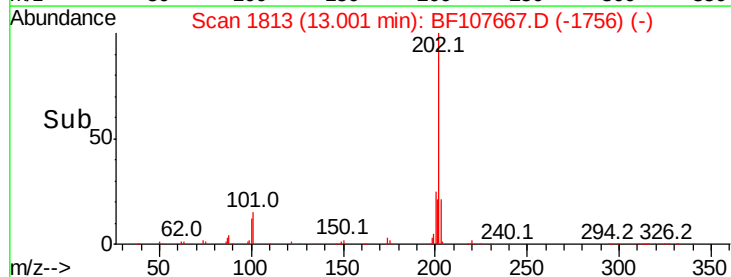
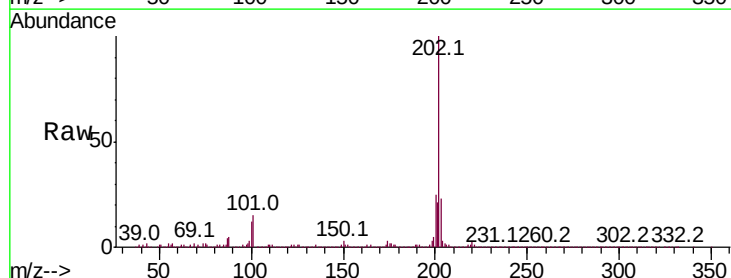
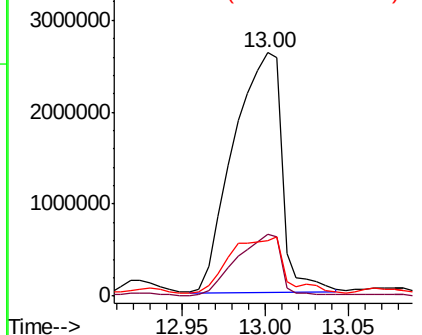
Delta R.T. 0.04 min

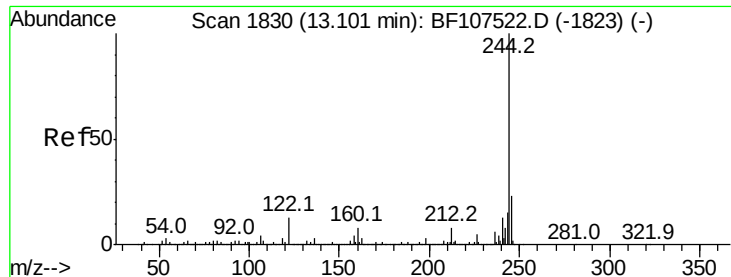
Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Tgt Ion:	202	Resp:	5336917
Ion Ratio	Lower	Upper	
202	100		
200	25.2	17.4	26.2
203	22.9	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: 13.128 ng

RT: 13.11 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Instrument :

BNA_F

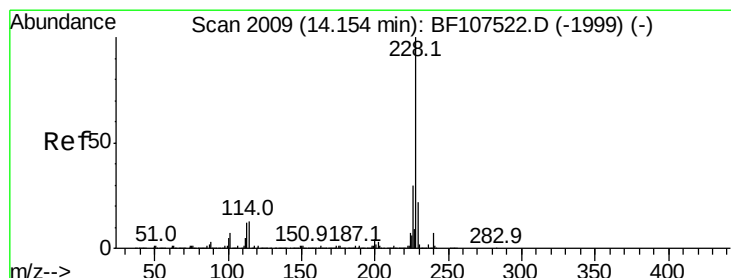
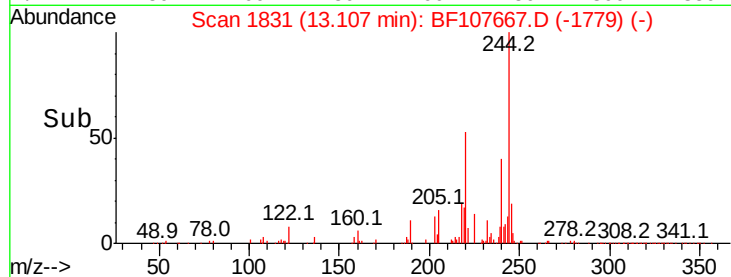
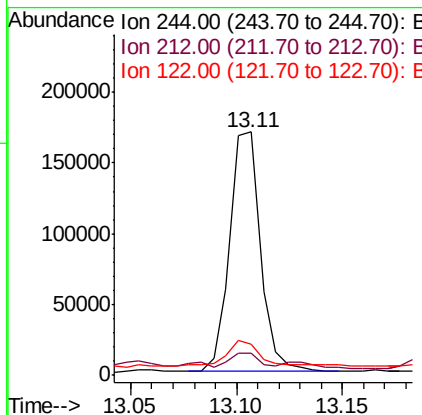
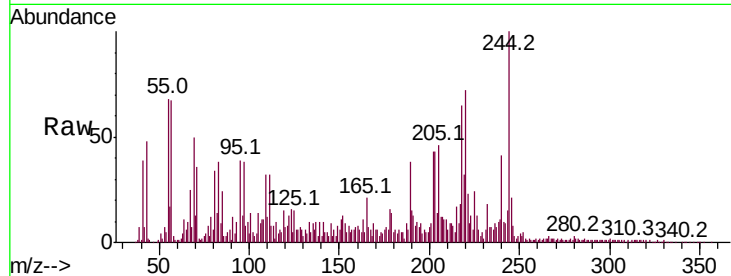
ClientSampleId :

PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.9	5.4	8.0#
122	12.8	11.0	16.4

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM



#80

Benzo(a)anthracene

Concen: 155.778 ng

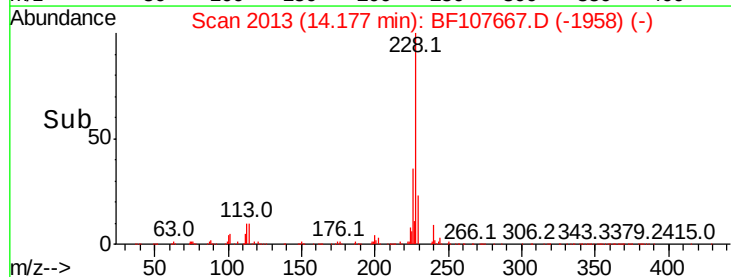
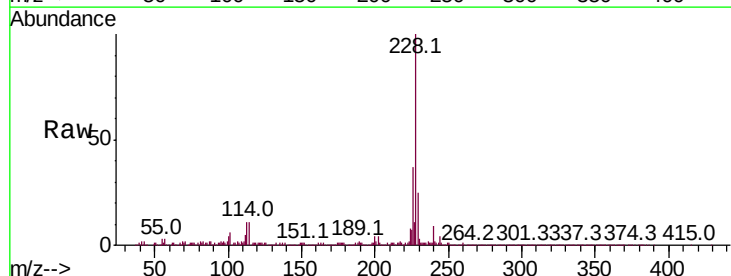
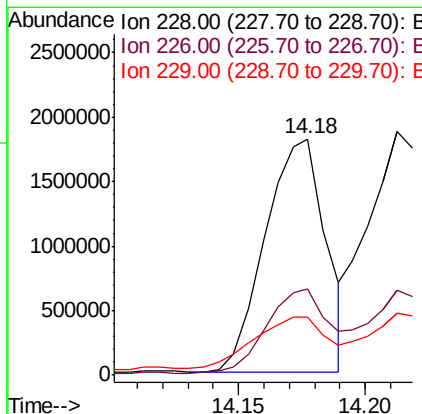
RT: 14.18 min Scan# 2013

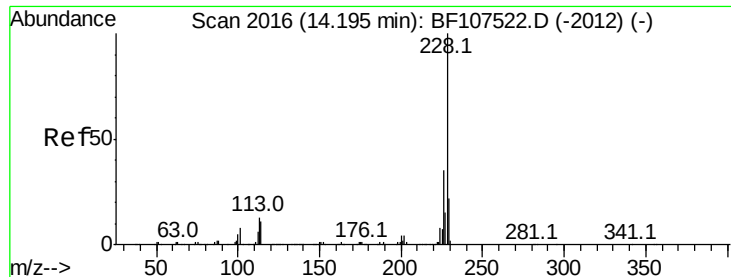
Delta R.T. 0.02 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.6	22.6	33.8#
229	24.8	15.8	23.6#





#82

Chrysene

Concen: 148.321 ng

RT: 14.21 min Scan# 2019

Delta R.T. 0.02 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Instrument :

BNA_F

ClientSampleId :

PLANTER-DOC-2

Tot Ion:228 Resp: 2751687

Ion Ratio Lower Upper

228 100

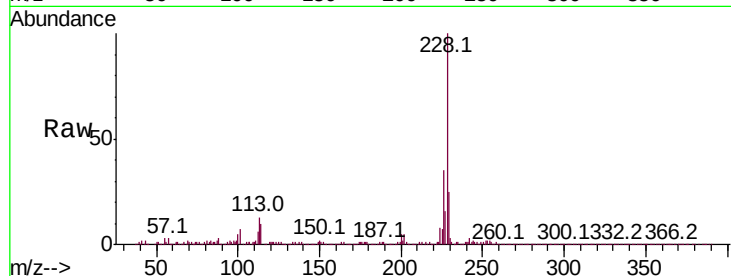
226 34.8 25.0 37.6

229 25.4 16.2 24.4#

Manual Integrations
APPROVED

Sohil

7/26/2018 2:01:25 PM

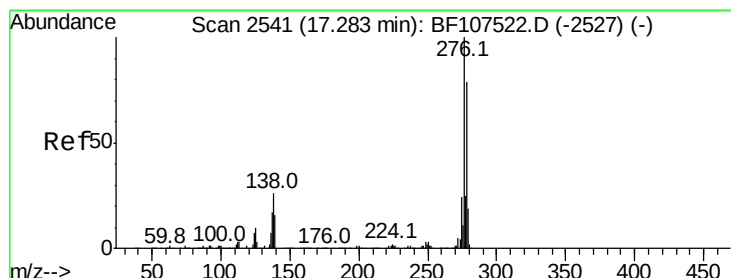
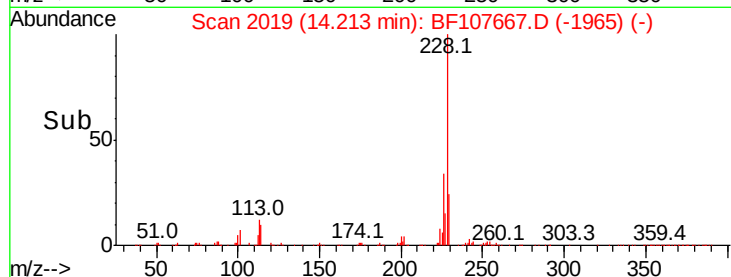
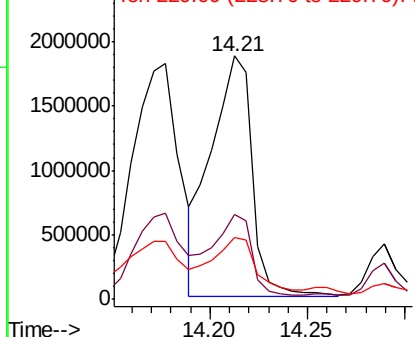


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 93.624 ng

RT: 17.34 min Scan# 2550

Delta R.T. 0.05 min

Lab File: BF107667.D

Acq: 25 Jul 2018 19:50

Tgt Ion:276 Resp: 1472103

Ion Ratio Lower Upper

276 100

138 19.5 25.0 37.6#

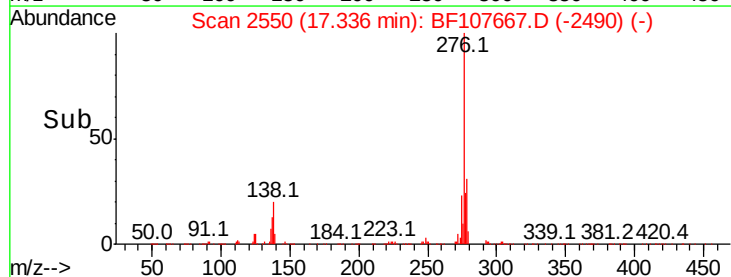
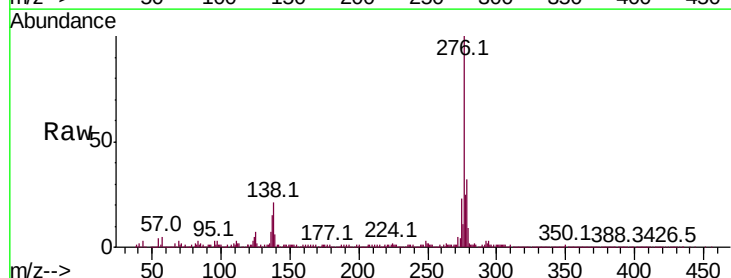
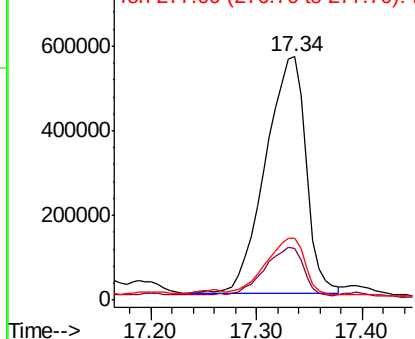
277 23.7 20.1 30.1

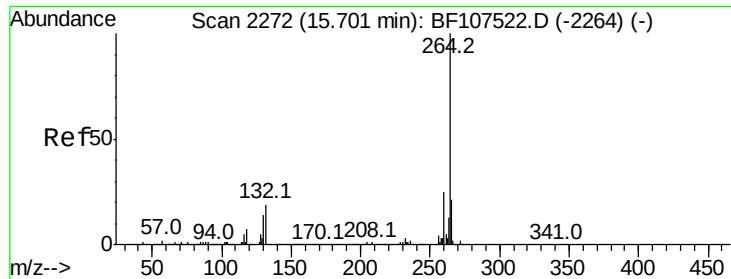
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





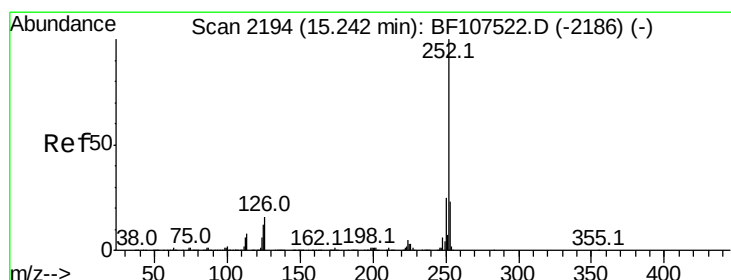
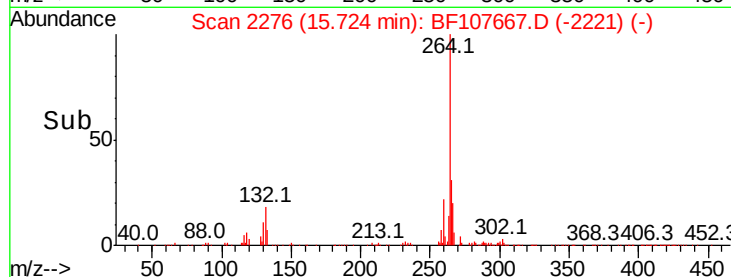
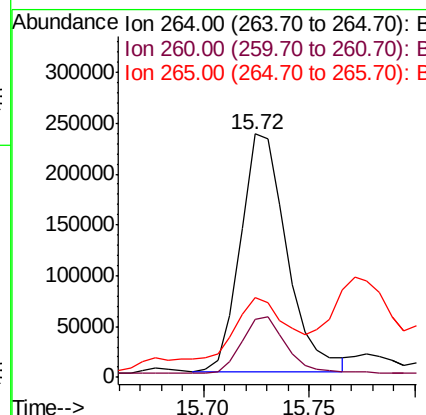
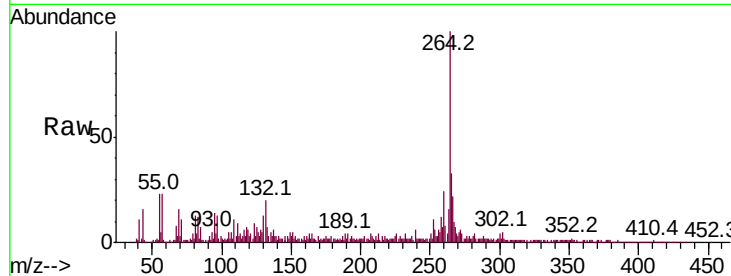
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Instrument :
BNA_F
ClientSampleId :
PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	32.8	17.5	26.3

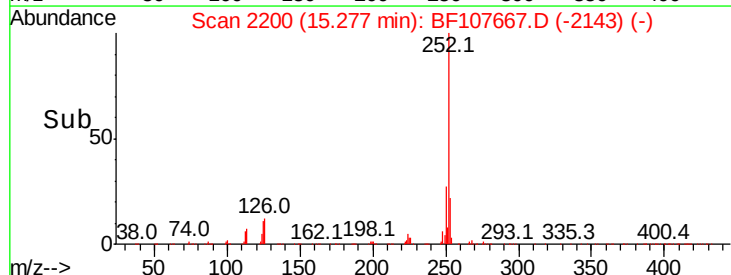
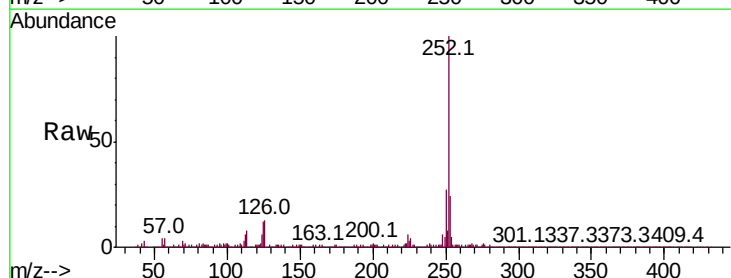
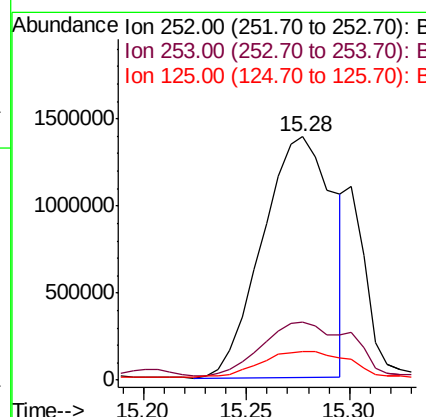
Manual Integrations
APPROVED

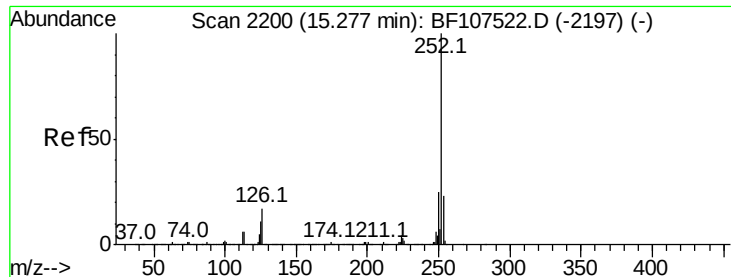
Sohil
7/26/2018 2:01:25 PM



#87
Benzo(b)fluoranthene
Concen: 169.936 ng m
RT: 15.28 min Scan# 2200
Delta R.T. 0.04 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	11.9	9.0	13.6





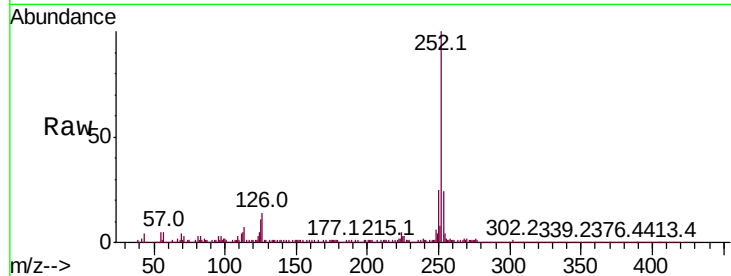
#88
Benzo(k)fluoranthene
Concen: 40.374 ng m
RT: 15.30 min Scan# 2204
Delta R.T. 0.02 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Instrument :
BNA_F
ClientSampleId :
PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	10.6	10.2	15.2

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM

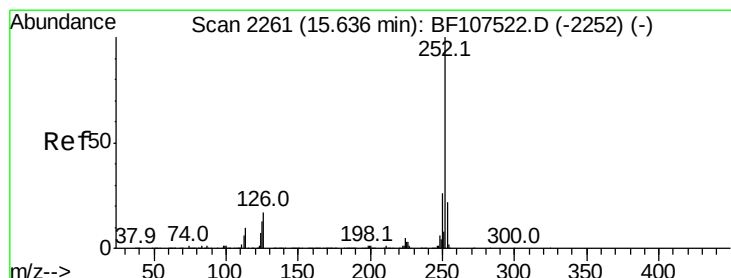
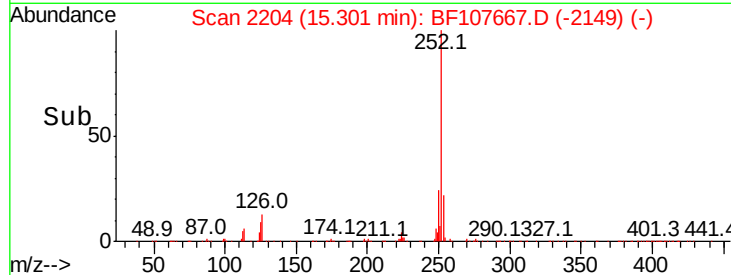
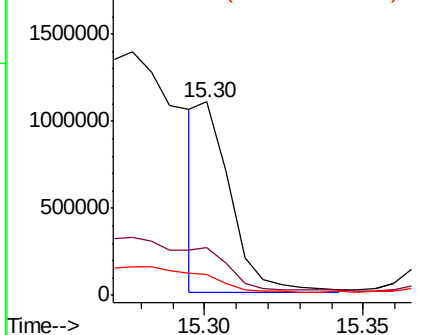


Abundance

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



#89
Benzo(a)pyrene
Concen: 153.290 ng
RT: 15.68 min Scan# 2268
Delta R.T. 0.04 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

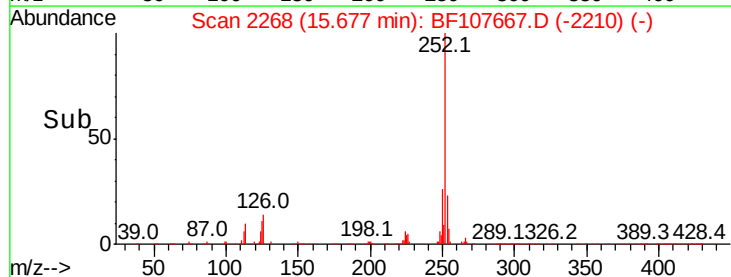
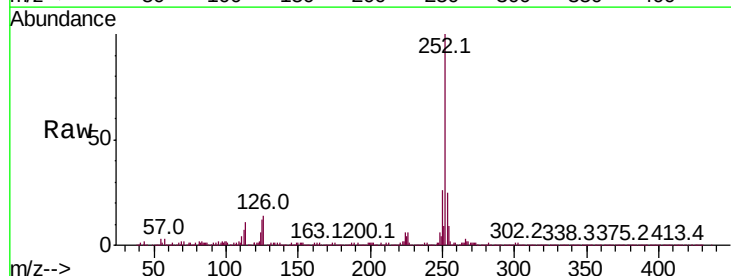
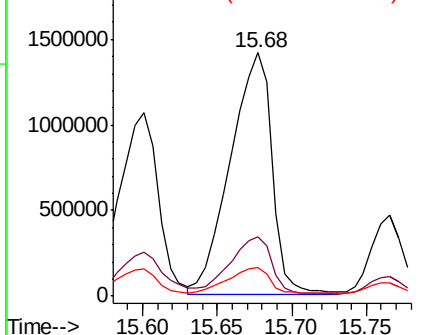
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.1	25.7
125	11.8	9.8	14.6

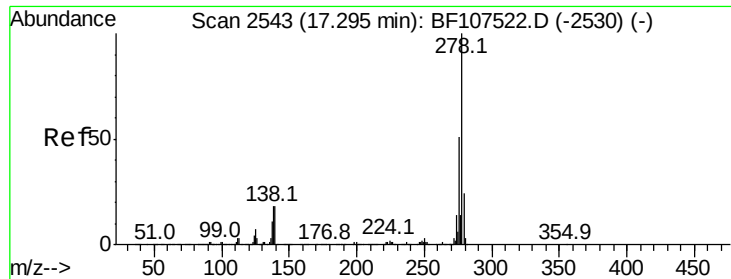
Abundance

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





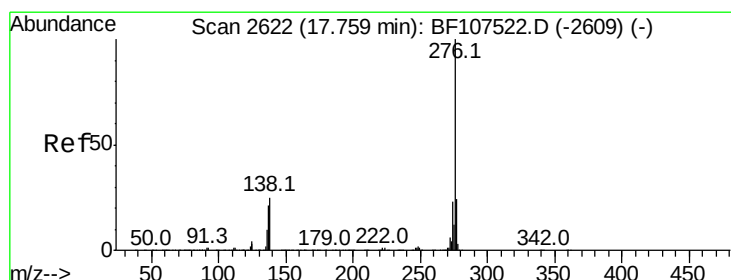
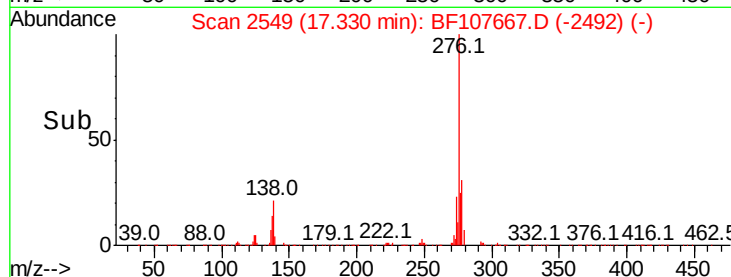
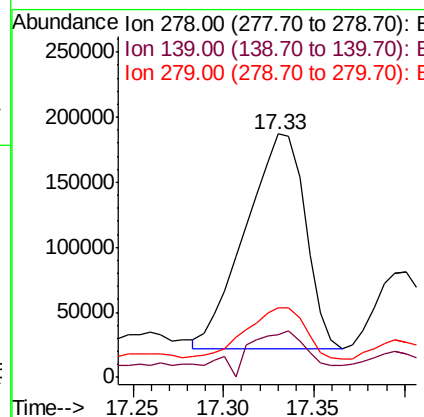
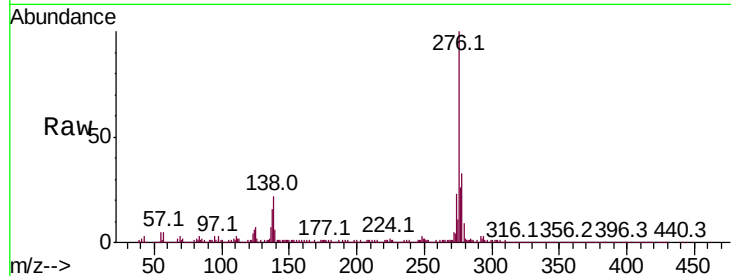
#90
Dibenzo(a,h)anthracene
Concen: 24.778 ng
RT: 17.33 min Scan# 2549
Delta R.T. 0.04 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Instrument :
BNA_F
ClientSampleId :
PLANTER-DOC-2

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.3	15.9	23.9
279	28.8	19.0	28.4

Manual Integrations
APPROVED

Sohil
7/26/2018 2:01:25 PM



#91
Benzo(g,h,i)perylene
Concen: 104.676 ng
RT: 17.82 min Scan# 2633
Delta R.T. 0.06 min
Lab File: BF107667.D
Acq: 25 Jul 2018 19:50

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	17.9	26.9
138	21.9	21.8	32.8

