

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF072318\
 Data File : BF107593.D
 Acq On : 23 Jul 2018 17:31
 Operator : JU/SJ
 Sample : J4030-14 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB9-12-0

Manual Integrations
 APPROVED

Sohil
 8/1/2018 10:27:00 AM

Quant Time: Aug 01 10:18:32 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	6.98	152	270246	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	960149	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	356482	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	710974	20.00	ng	0.00
75) Chrysene-d12	14.17	240	508669	20.00	ng	0.00
86) Perylene-d12	15.72	264	398038	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	605184	36.00	ng	0.00
7) Phenol-d6	6.61	99	872413	43.23	ng	0.00
23) Nitrobenzene-d5	7.54	82	498273	35.02	ng	-0.01
41) 2,4,6-Tribromophenol	10.81	330	119063	29.37	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	870449	34.33	ng	0.00
78) Terphenyl-d14	13.10	244	878486	44.21	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	9.88	152	141520	3.97	ng	99
49) Dimethylphthalate	9.72	163	162576	6.05	ng	# 98
51) Acenaphthene	10.05	154	115295	5.16	ng	98
54) Dibenzofuran	10.23	168	102039	3.10	ng	96
57) Fluorene	10.57	166	193877	8.26	ng	94
70) Phenanthrene	11.54	178	1634524	47.18	ng	98
71) Anthracene	11.59	178	508368	14.57	ng	100
72) Carbazole	11.75	167	166279	4.58	ng	98
74) Fluoranthene	12.74	202	2184235	58.75	ng	96
77) Pyrene	12.97	202	2039914	58.63	ng	98
79) Butylbenzylphthalate	13.57	149	52937	3.54	ng	92
80) Benzo(a)anthracene	14.16	228	860955	28.88	ng	96
82) Chrysene	14.20	228	817012	28.53	ng	98
83) Bis(2-ethylhexyl)phthalate	14.12	149	88776	4.20	ng	# 98
85) Indeno(1,2,3-cd)pyrene	17.31	276	324974	13.39	ng	# 90
87) Benzo(b)fluoranthene	15.25	252	760371m	34.90	ng	
88) Benzo(k)fluoranthene	15.28	252	237346m	11.12	ng	
89) Benzo(a)pyrene	15.65	252	539732	27.09	ng	95
90) Dibenzo(a,h)anthracene	17.31	278	82536	4.79	ng	# 82
91) Benzo(a,h,i)perylene	17.79	276	314730	18.52	ng	# 90

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

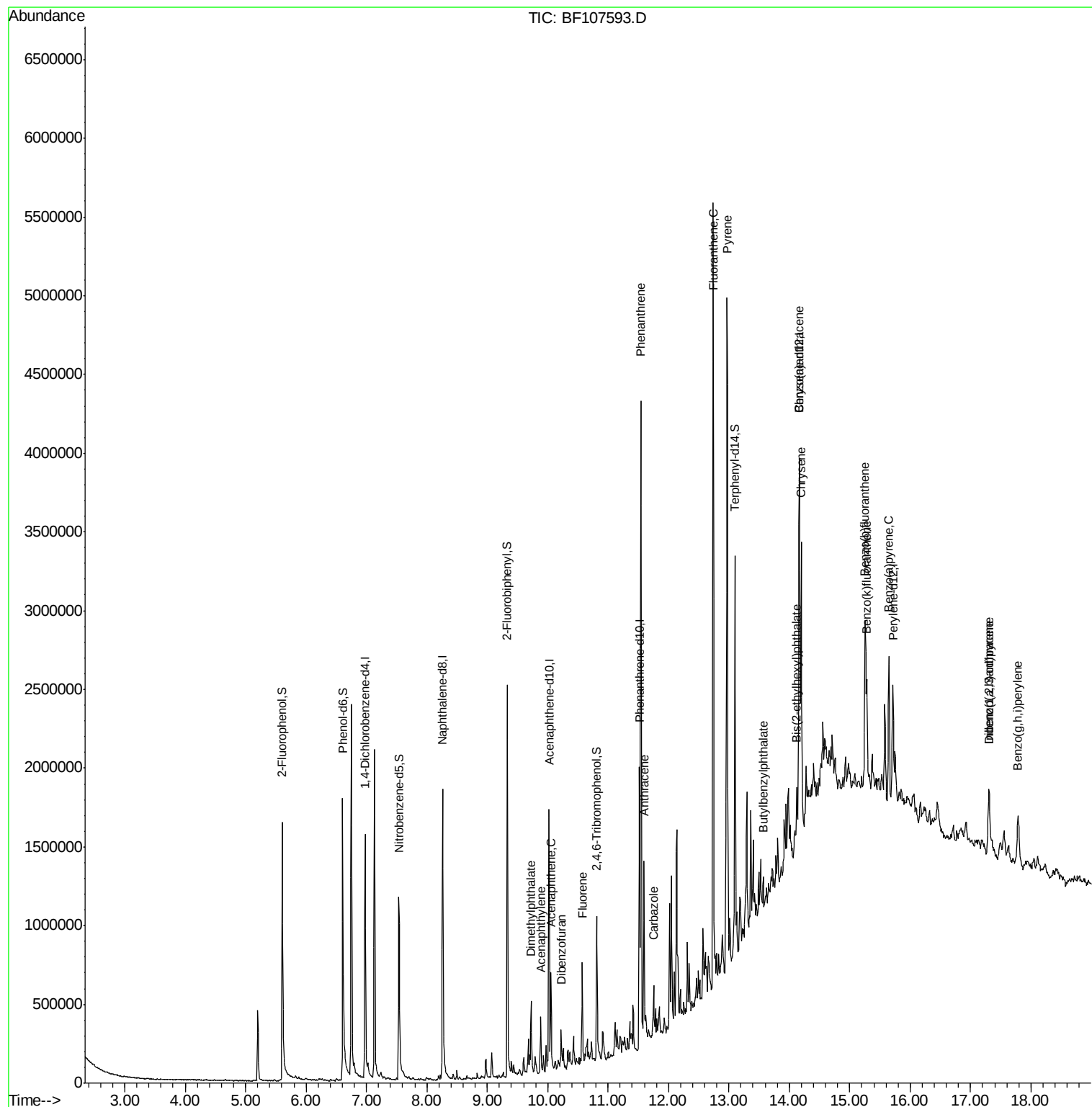
Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF072318\
Data File : BF107593.D
Acq On : 23 Jul 2018 17:31
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Sample : J4030-14 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

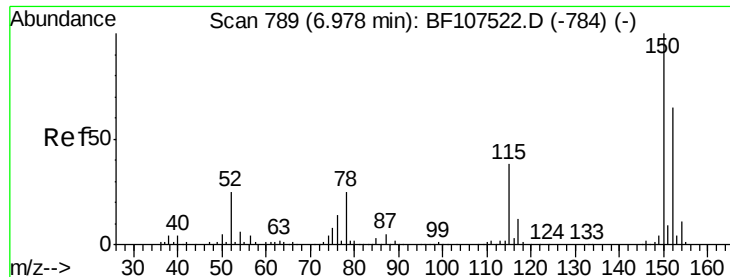
Instrument :
BNA_F
ClientSampled :
SB9-12-0

Manual Integrations
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8/1/2018 10:27:00 AM

Quant Time: Aug 01 10:18:32 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
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#1

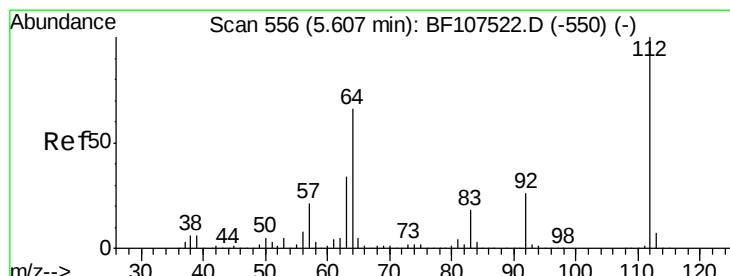
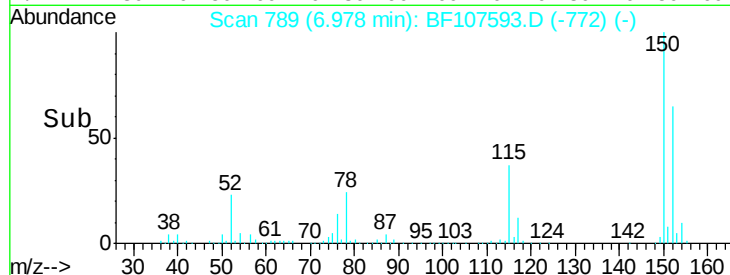
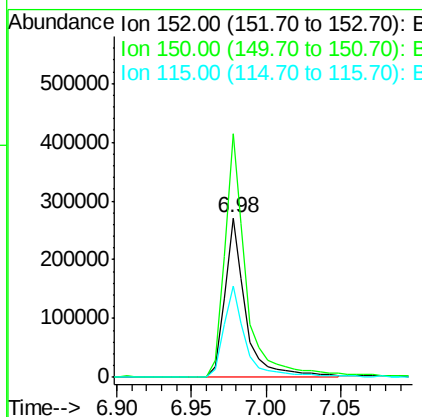
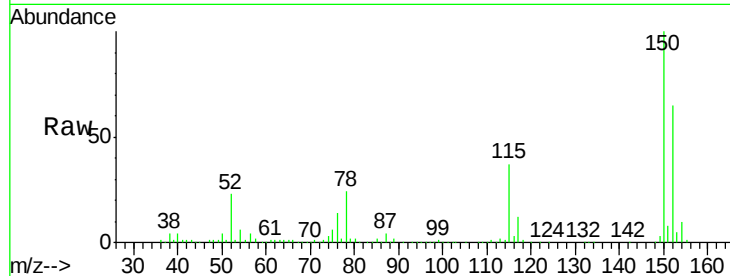
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.98 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Instrument :
BNA_F
ClientSampled :
SB9-12-0

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.6	186.8
115	57.1	50.1	75.1

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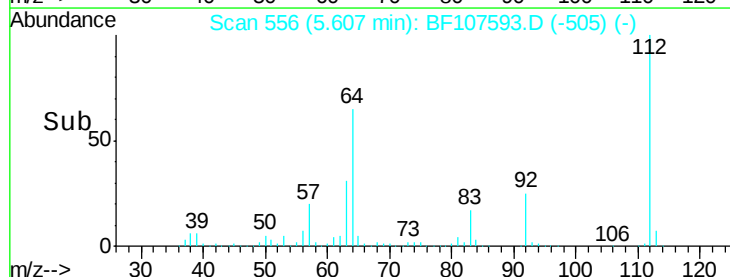
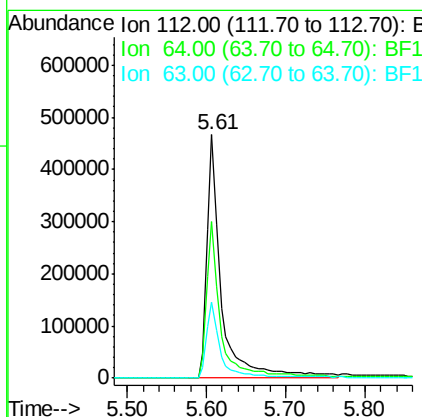
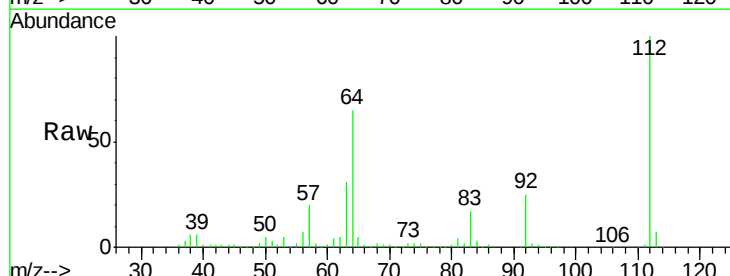
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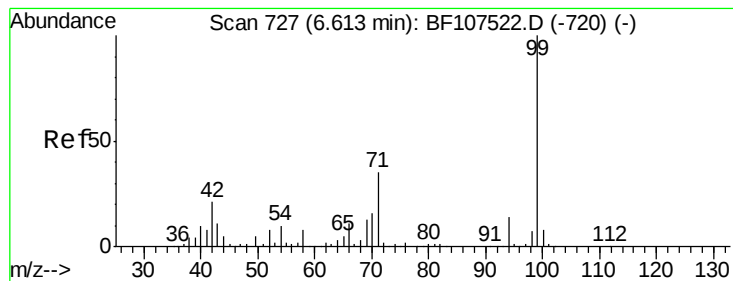


#5

2-Fluorophenol
Concen: 36.00 ng
RT: 5.61 min Scan# 556
Delta R.T. 0.00 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.6	47.9	71.9
63	31.4	23.7	35.5





#7

Phenol-d6

Concen: 43.23 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Instrument :

BNA_F

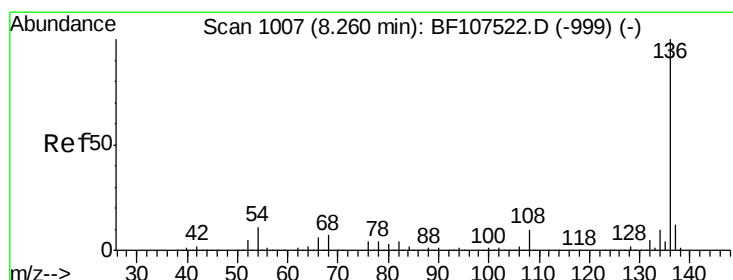
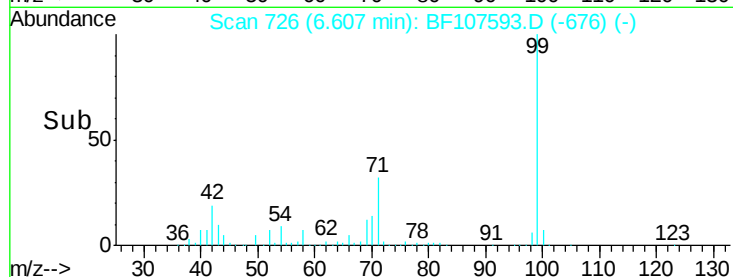
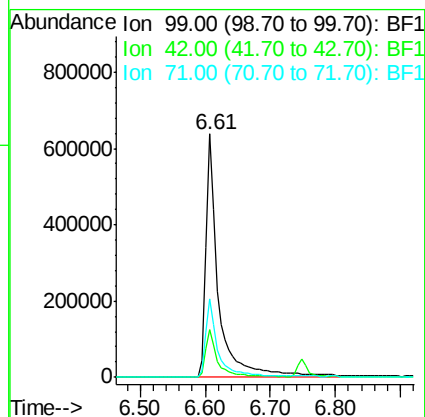
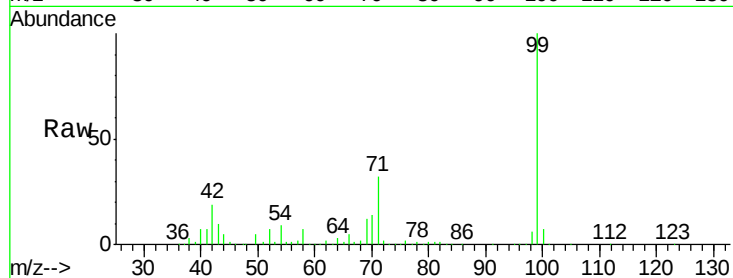
ClientSampleId :

SB9-12-0

Tot Ion:	99	Resp:	872413
Ion Ratio	Lower	Upper	
99	100		
42	19.5	14.5	21.7
71	32.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.00 ng

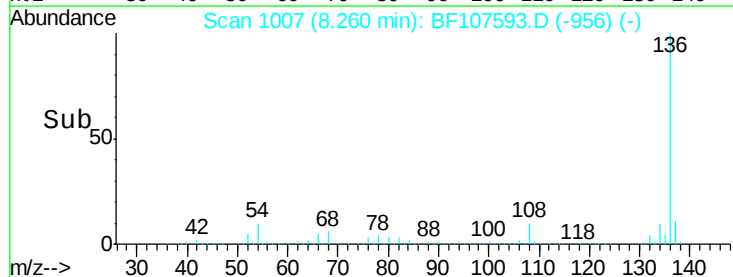
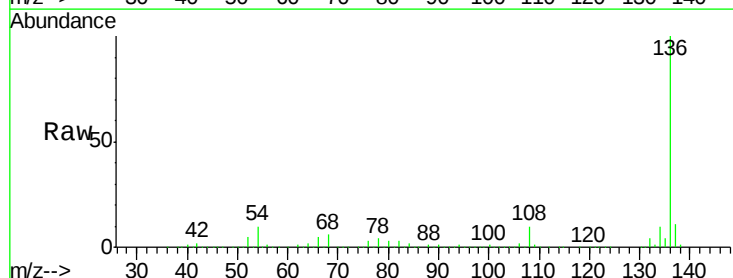
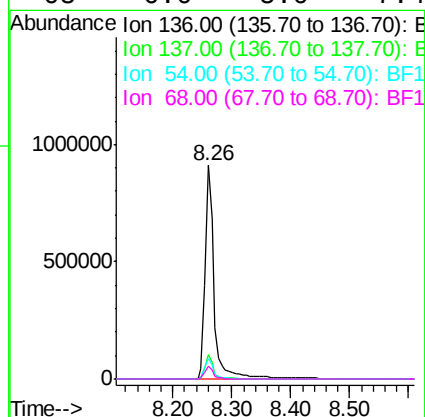
RT: 8.26 min Scan# 1007

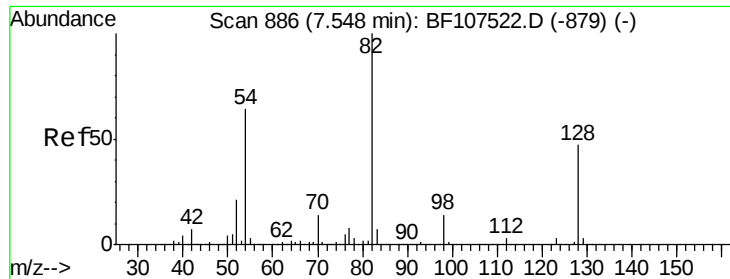
Delta R.T. -0.00 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Tgt Ion:	136	Resp:	960149
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.9	13.3
54	9.8	6.6	9.8
68	6.0	5.0	7.4





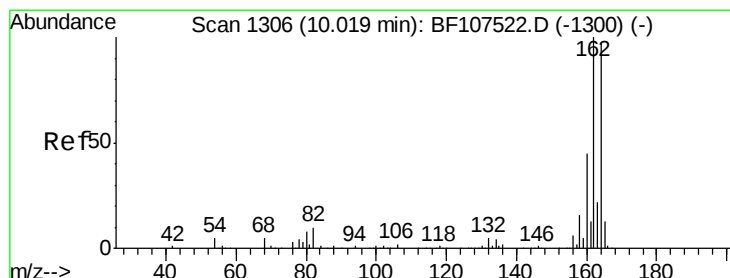
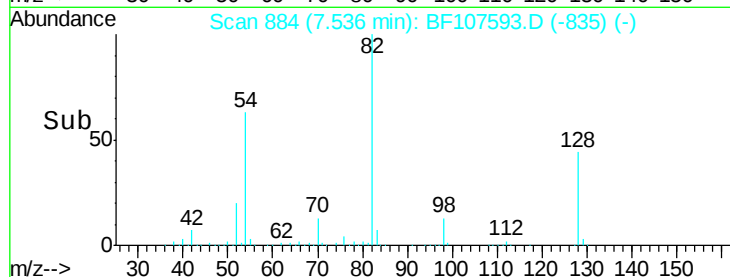
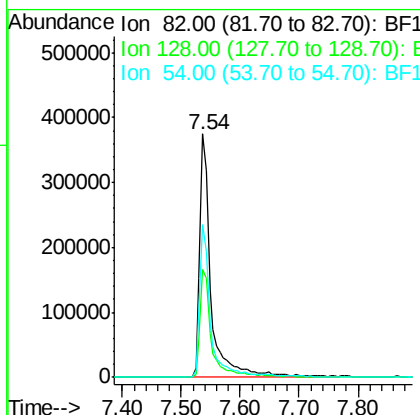
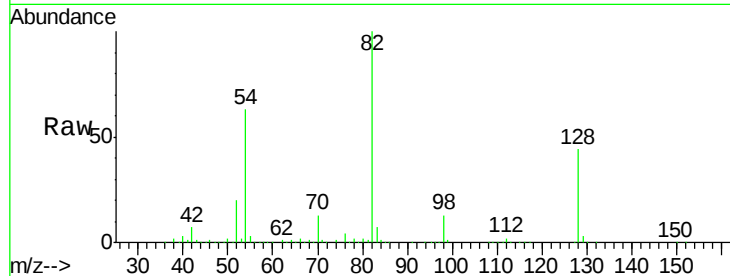
#23
Nitrobenzene-d5
Concen: 35.02 ng
RT: 7.54 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Instrument :
BNA_F
ClientSampled :
SB9-12-0

Tot Ion	82	Resp	498273
Ion Ratio	100	Lower	Upper
128	44.4	36.1	54.1
54	62.8	41.4	62.2#

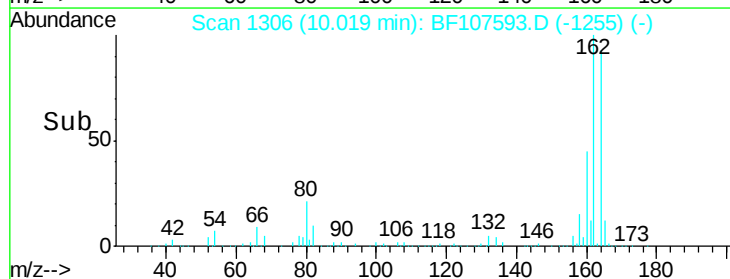
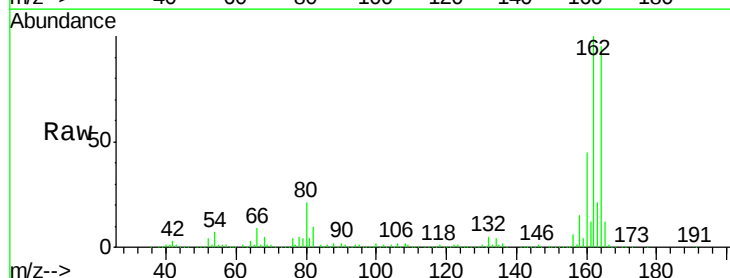
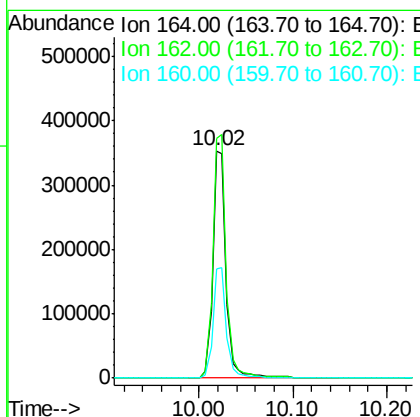
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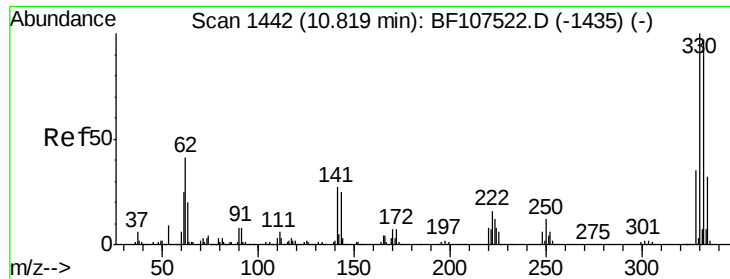
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.02 min Scan# 1306
Delta R.T. -0.00 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Tgt Ion	164	Resp	356482
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
162	105.6	86.1	129.1
160	47.8	38.3	57.5





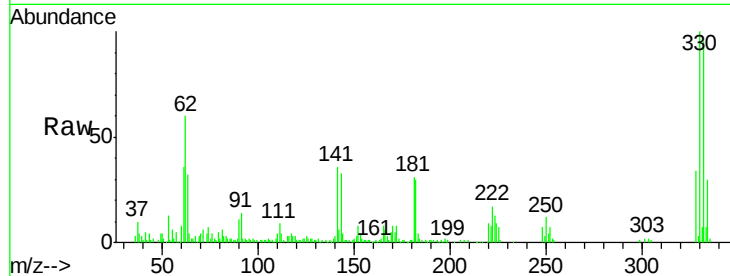
#41
 2,4,6-Tribromophenol
 Concen: 29.37 ng
 RT: 10.81 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF107593.D
 Acq: 23 Jul 2018 17:31

Instrument :
 BNA_F
 ClientSampled :
 SB9-12-0

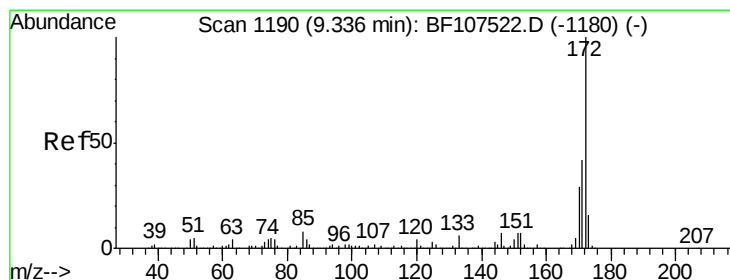
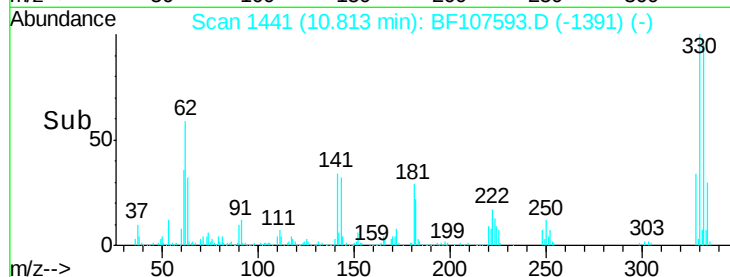
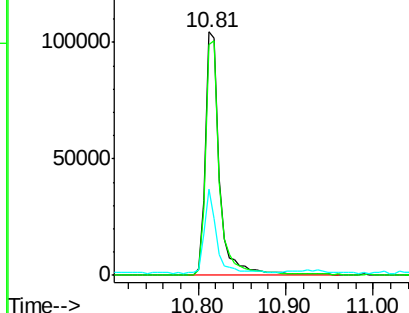
Tot Ion	Ratio	Resp	Lower	Upper
330	100	119063		
332	96.1	77.0	115.6	
141	29.3	29.9	44.9#	

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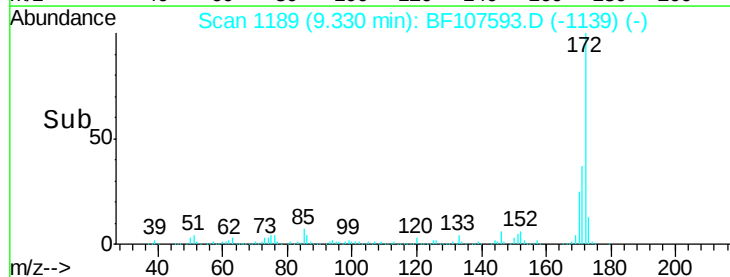
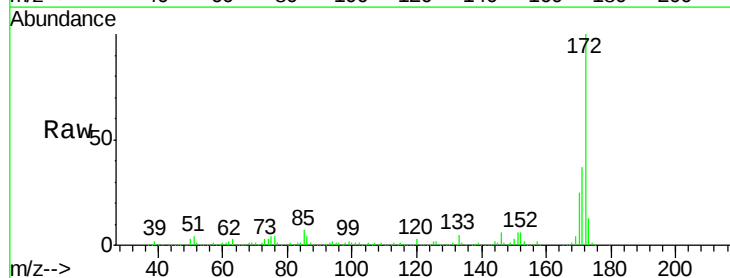
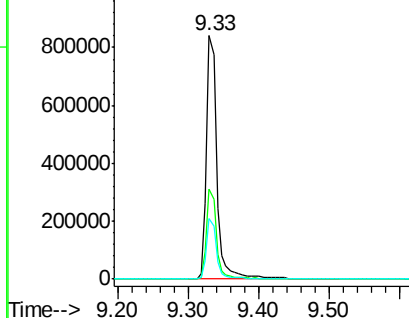
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

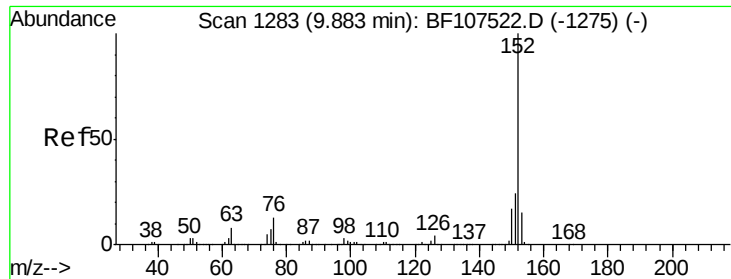


#44
 2-Fluorobiphenyl
 Concen: 34.33 ng
 RT: 9.33 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF107593.D
 Acq: 23 Jul 2018 17:31

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	870449		
171	36.8	29.7	44.5	
170	24.7	19.6	29.4	

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





#48

Acenaphthylene

Concen: 3.97 ng

RT: 9.88 min Scan# 1283

Delta R.T. -0.00 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Instrument :

BNA_F

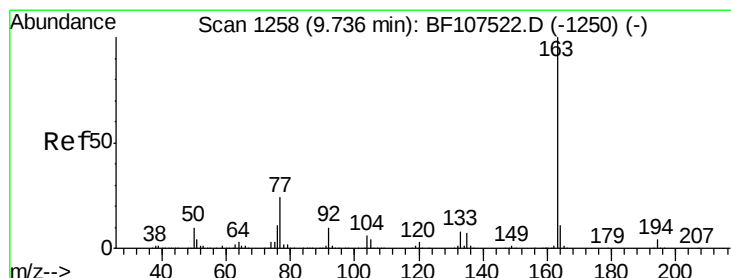
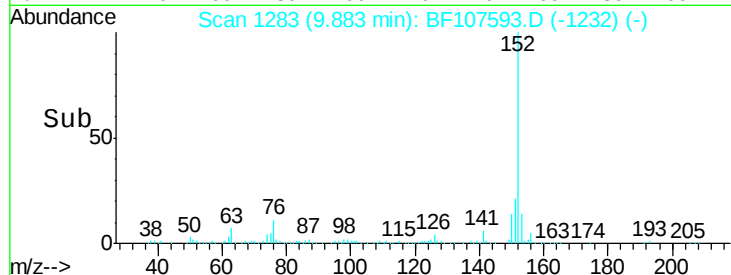
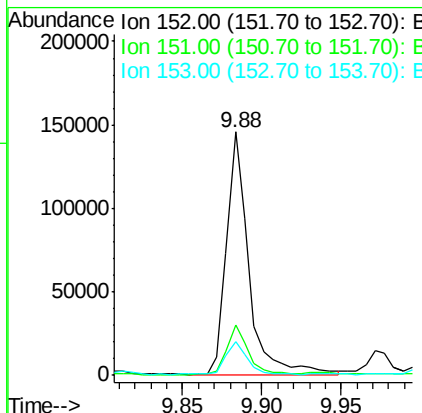
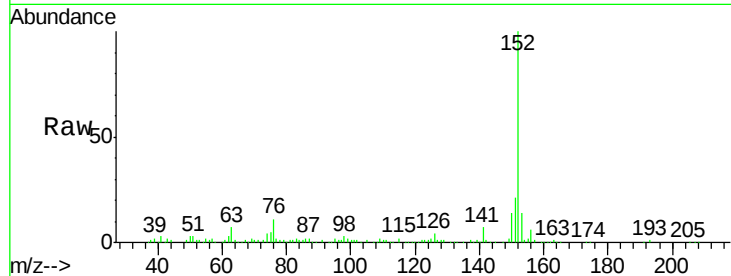
ClientSampleId :

SB9-12-0

Tot Ion:	152	Resp:	141520
Ion Ratio		Lower	Upper
152	100		
151	20.9	16.3	24.5
153	13.9	10.7	16.1

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#49

Dimethylphthalate

Concen: 6.05 ng

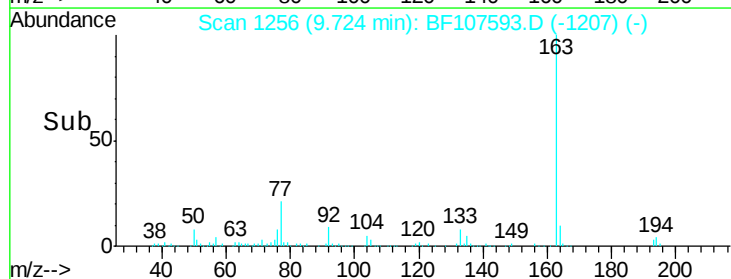
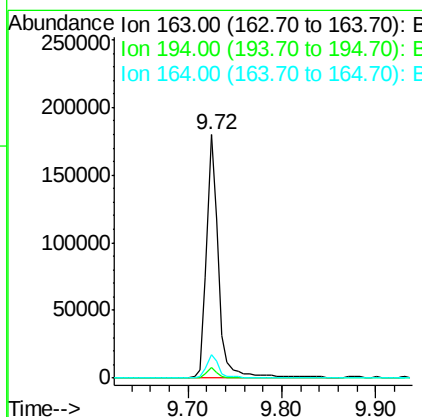
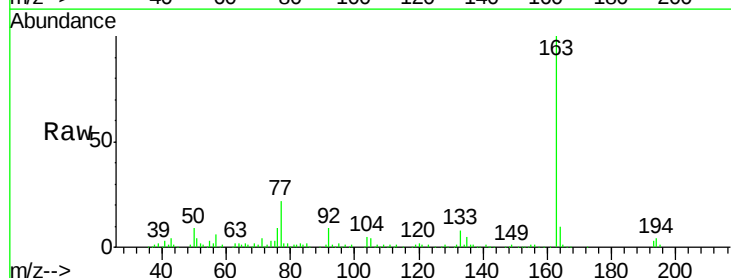
RT: 9.72 min Scan# 1256

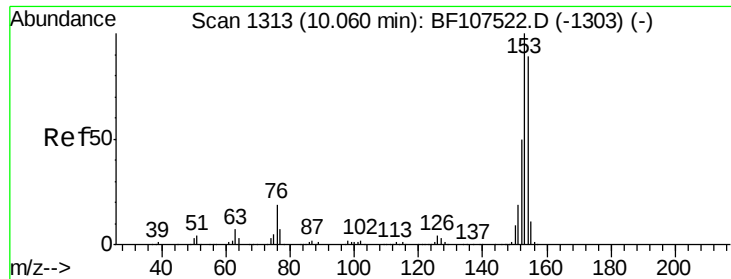
Delta R.T. -0.01 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Tgt Ion:	163	Resp:	162576
Ion Ratio		Lower	Upper
163	100		
194	4.5	2.7	4.1#
164	9.7	8.2	12.2





#51

Acenaphthene

Concen: 5.16 ng

RT: 10.05 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Instrument :

BNA_F

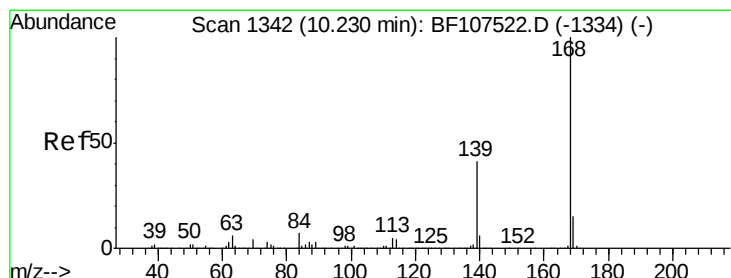
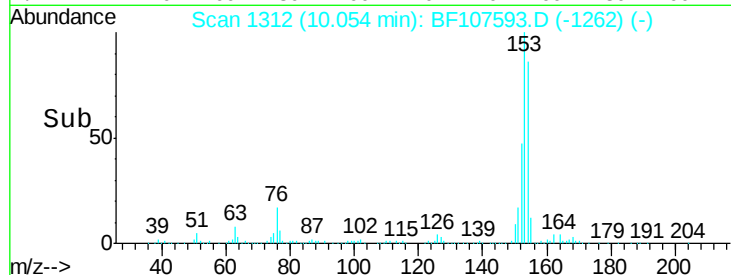
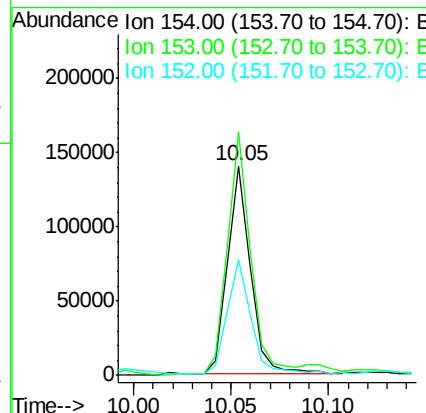
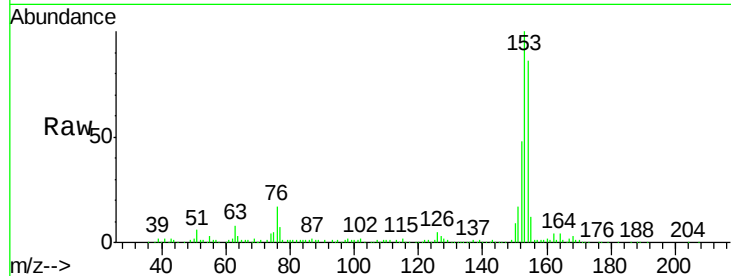
ClientSampled :

SB9-12-0

Tot Ion:	154	Resp:	115295
Ion Ratio	Lower	Upper	
154	100		
153	116.1	91.2	136.8
152	55.2	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 3.10 ng

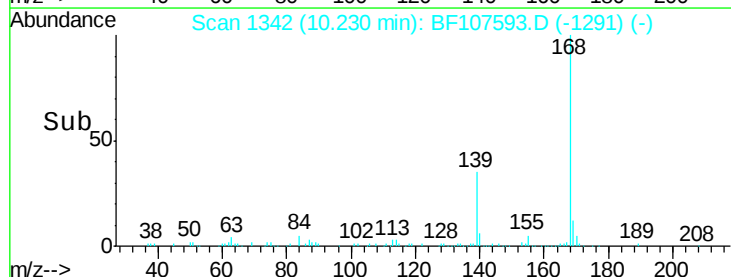
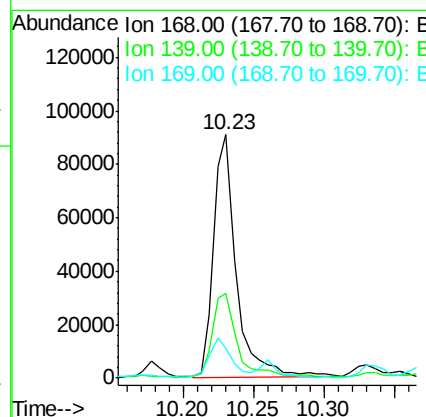
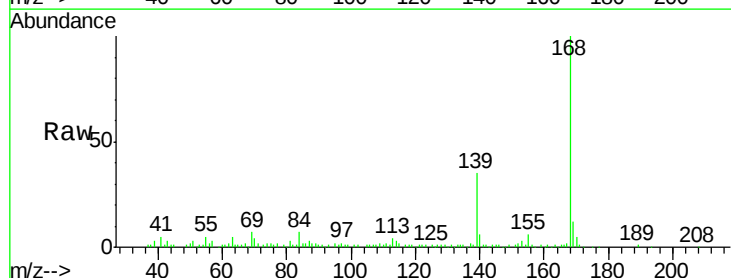
RT: 10.23 min Scan# 1342

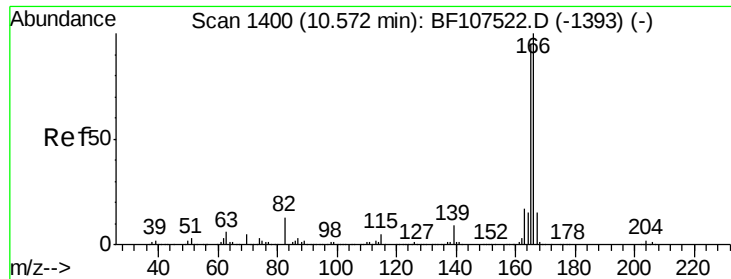
Delta R.T. 0.00 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Tgt Ion:	168	Resp:	102039
Ion Ratio	Lower	Upper	
168	100		
139	34.9	30.1	45.1
169	12.2	10.9	16.3





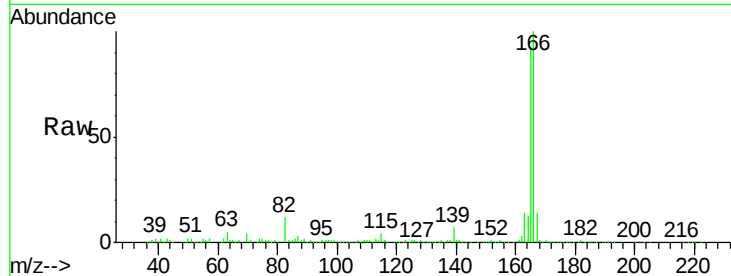
#57
Fluorene
 Concen: 8.26 ng
 RT: 10.57 min Scan# 1400
 Delta R.T. 0.00 min
 Lab File: BF107593.D
 Acq: 23 Jul 2018 17:31

Instrument :
 BNA_F
 ClientSampleId :
 SB9-12-0

Tot Ion	Ratio	Lower	Upper
166	100		
165	92.9	79.8	119.8
167	14.1	10.6	16.0

Manual Integrations
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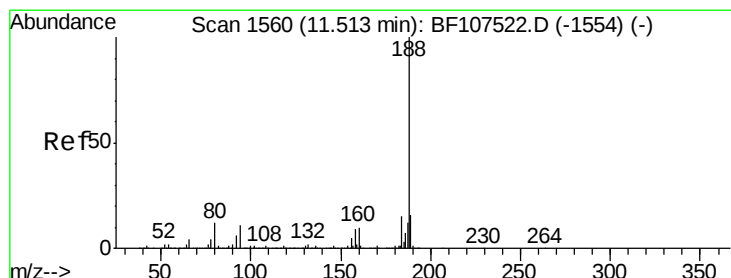
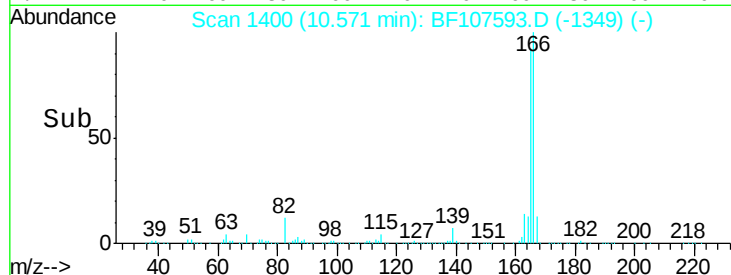
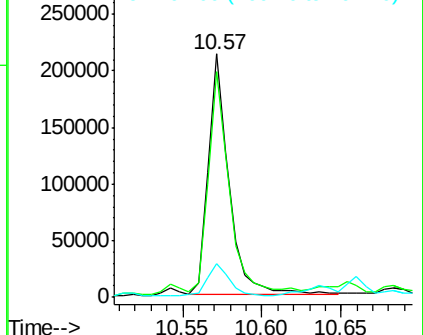


Abundance

Ion 166.00 (165.70 to 166.70): E

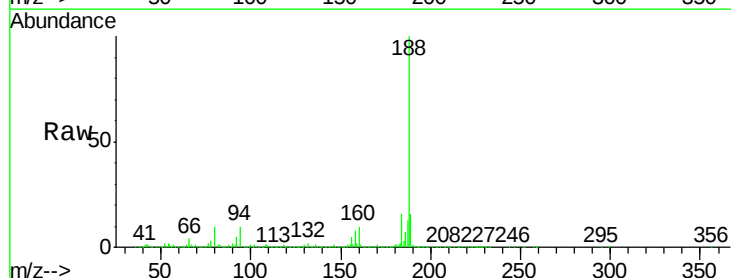
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.52 min Scan# 1561
 Delta R.T. 0.01 min
 Lab File: BF107593.D
 Acq: 23 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.5	12.7
80	10.3	9.2	13.8

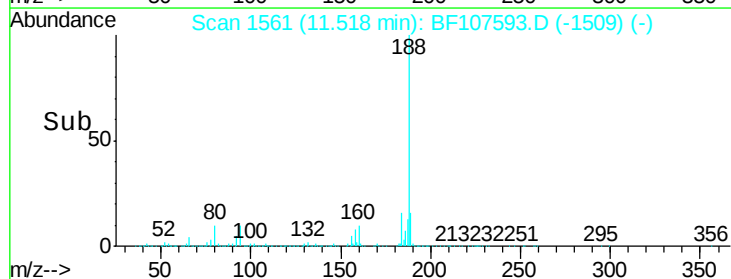
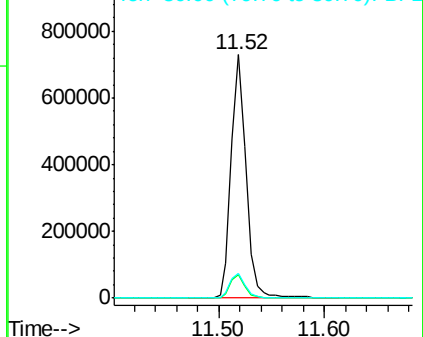


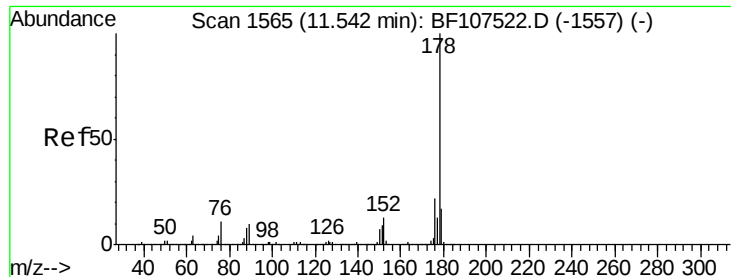
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





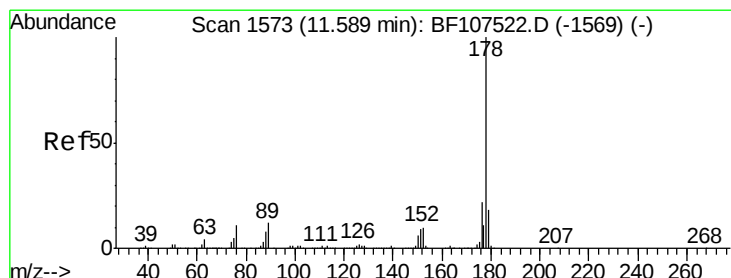
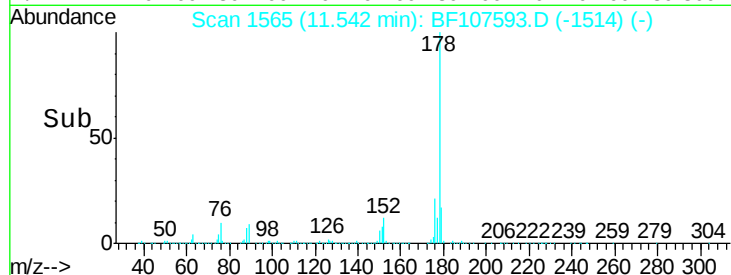
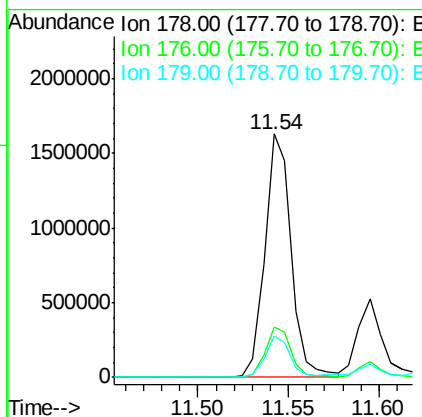
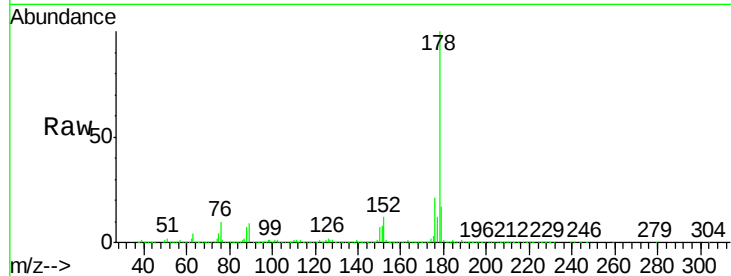
#70
Phenanthrene
Concen: 47.18 ng
RT: 11.54 min Scan# 1565
Delta R.T. 0.00 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Instrument :
BNA_F
ClientSampleId :
SB9-12-0

Tot Ion:178 Resp: 1634524
Ion Ratio Lower Upper
178 100
176 20.6 15.8 23.8
179 16.8 13.0 19.6

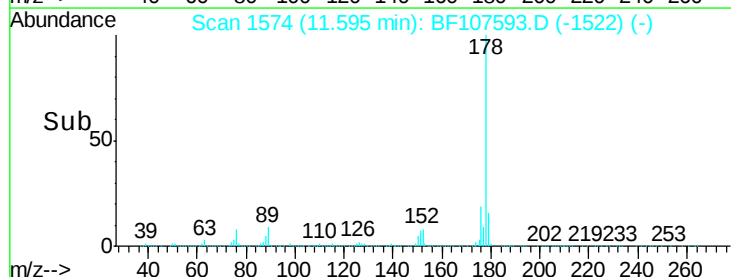
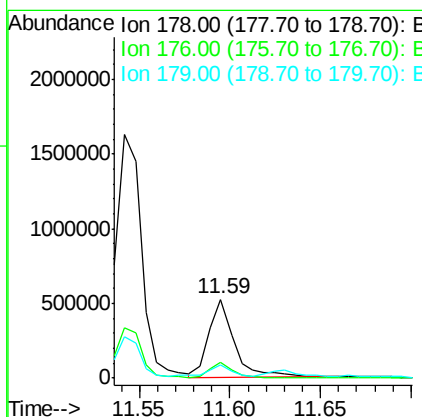
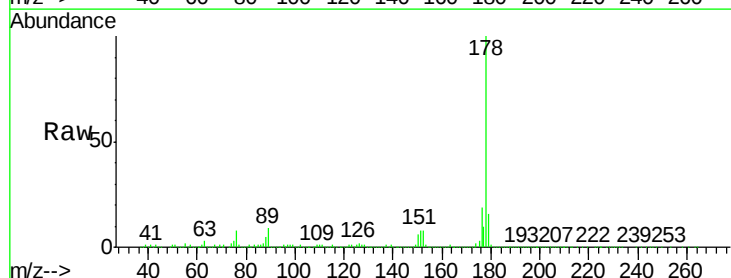
Manual Integrations
APPROVED

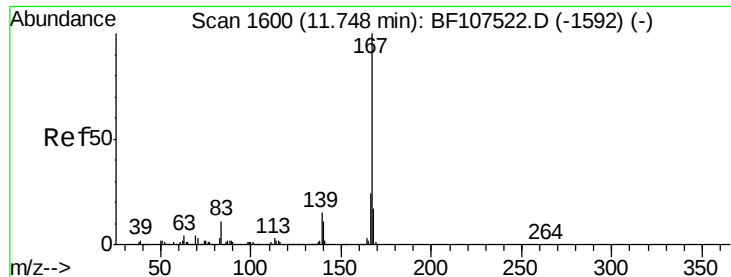
Sohil
8/1/2018 10:27:00 AM



#71
Anthracene
Concen: 14.57 ng
RT: 11.59 min Scan# 1574
Delta R.T. 0.01 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Tgt Ion:178 Resp: 508368
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 16.0 12.6 19.0





#72

Carbazole

Concen: 4.58 ng

RT: 11.75 min Scan# 1601

Delta R.T. 0.01 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Instrument :

BNA_F

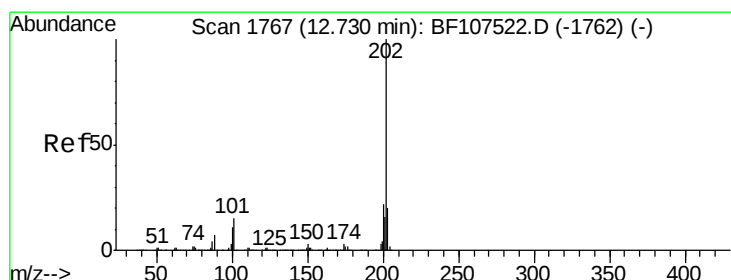
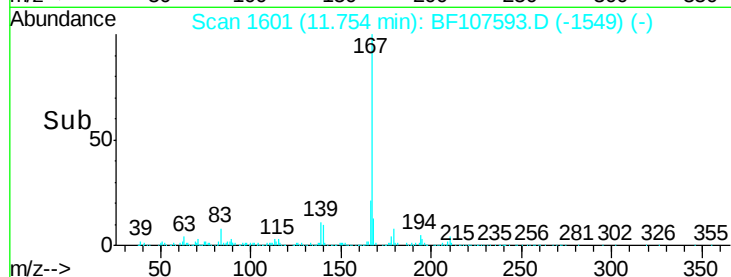
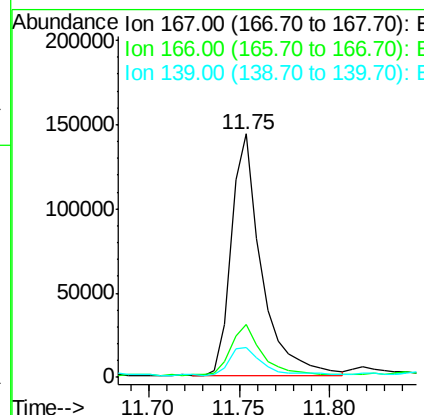
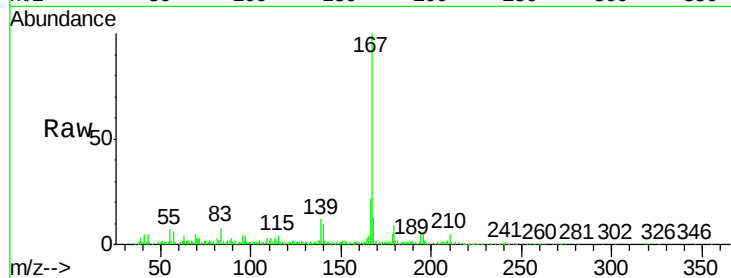
ClientSampleId :

SB9-12-0

Tot Ion:	167	Resp:	166279
Ion Ratio	Lower	Upper	
167	100		
166	21.7	17.6	26.4
139	12.0	10.9	16.3

Manual Integrations
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Sohil
8/1/2018 10:27:00 AM



#74

Fluoranthene

Concen: 58.75 ng

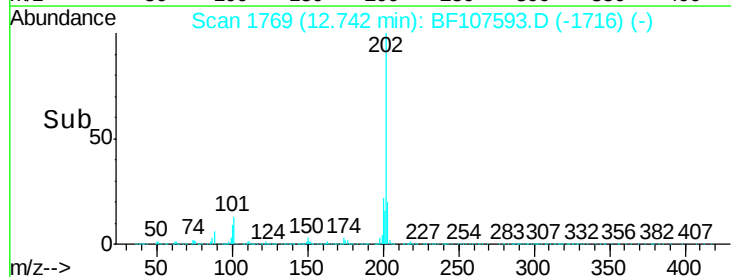
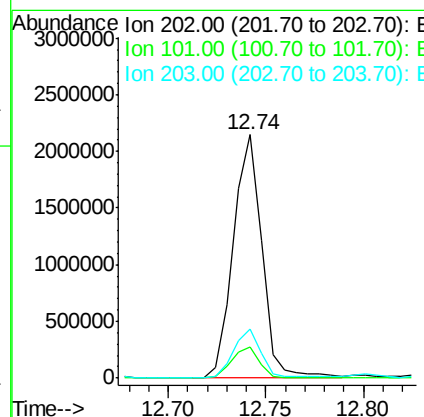
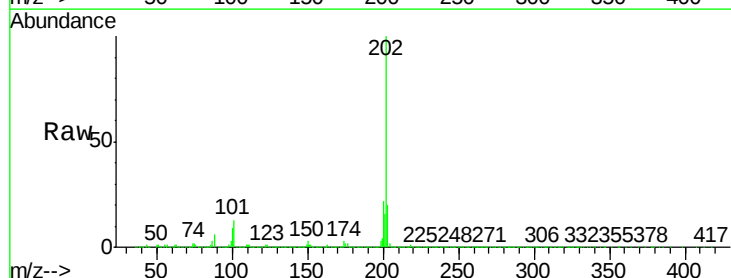
RT: 12.74 min Scan# 1769

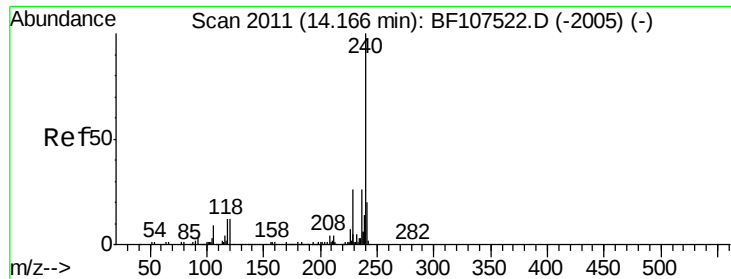
Delta R.T. 0.01 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Tgt Ion:	202	Resp:	2184235
Ion Ratio	Lower	Upper	
202	100		
101	12.8	0.0	34.1
203	20.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.17 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Instrument :

BNA_F

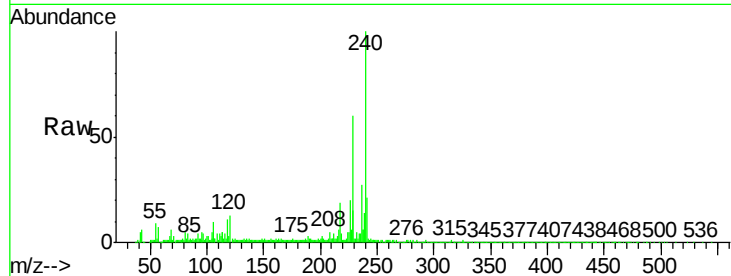
ClientSampled :

SB9-12-0

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.5	9.5	14.3
236	26.6	20.7	31.1

Manual Integrations
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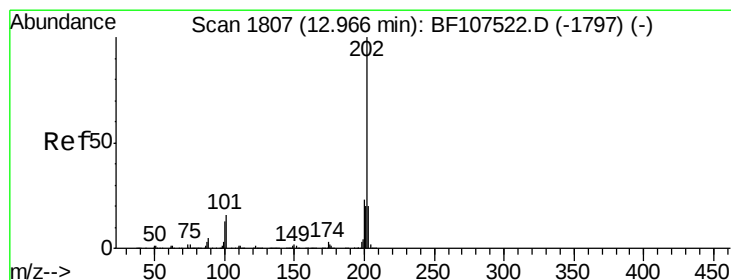
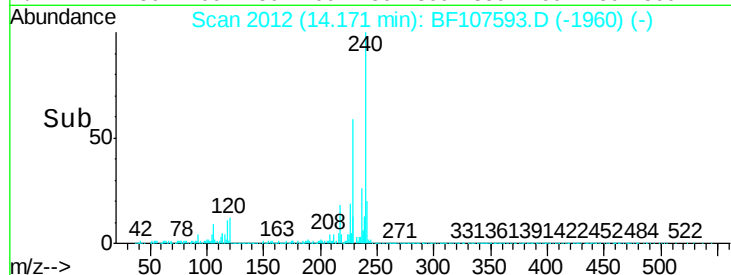
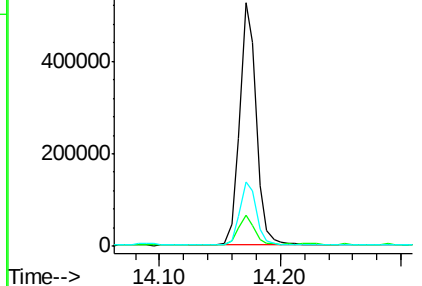
Sohil
8/1/2018 10:27:00 AM



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: 58.63 ng

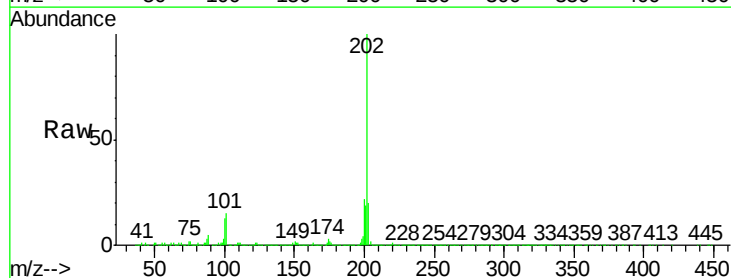
RT: 12.97 min Scan# 1808

Delta R.T. 0.01 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

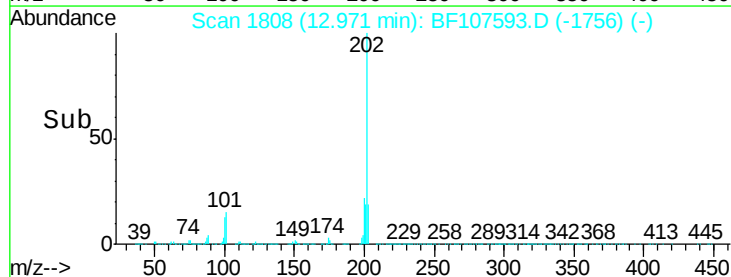
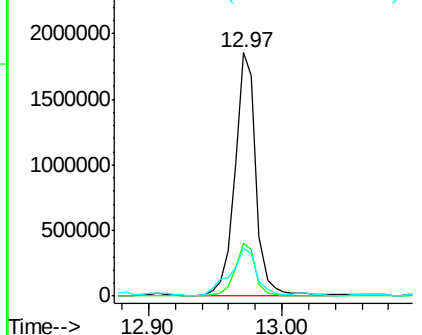
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2
203	19.6	14.3	21.5

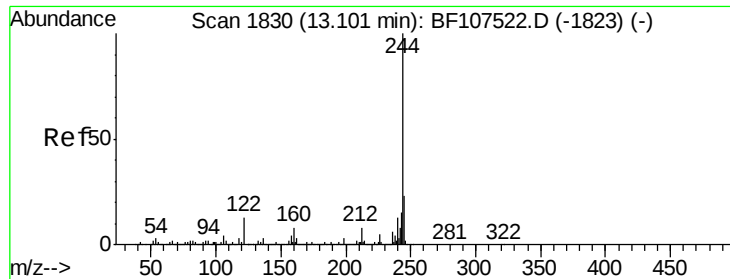


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 44.21 ng

RT: 13.10 min Scan# 1830

Delta R.T. 0.00 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

Instrument :

BNA_F

ClientSampleId :

SB9-12-0

Tot Ion:244 Resp: 878486

Ion Ratio Lower Upper

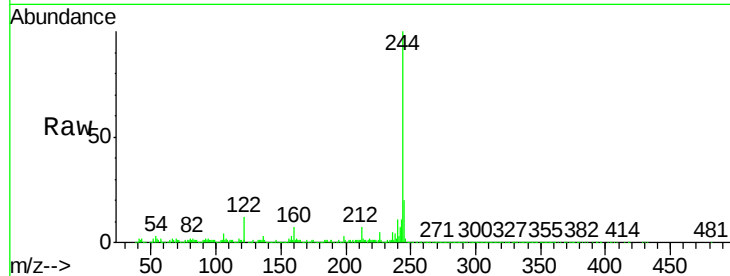
244 100

212 6.9 5.4 8.0

122 12.0 11.0 16.4

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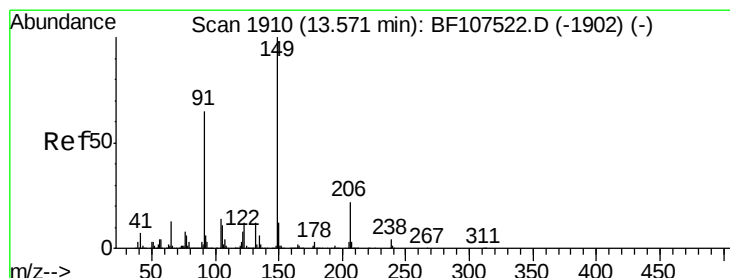
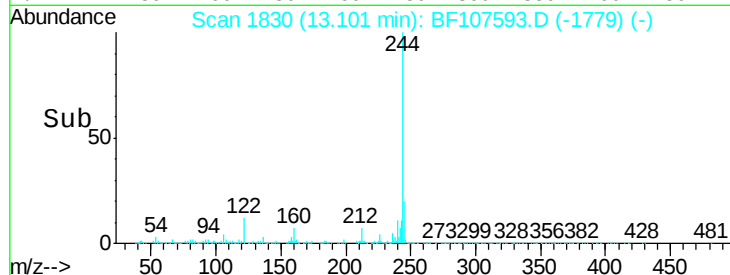
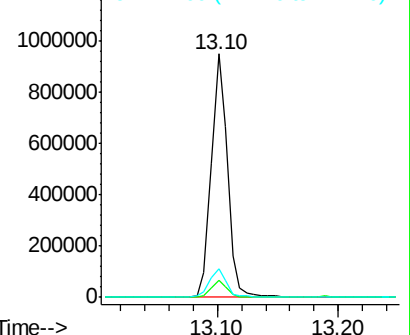
Sohil
8/1/2018 10:27:00 AM



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



#79

Butylbenzylphthalate

Concen: 3.54 ng

RT: 13.57 min Scan# 1910

Delta R.T. -0.00 min

Lab File: BF107593.D

Acq: 23 Jul 2018 17:31

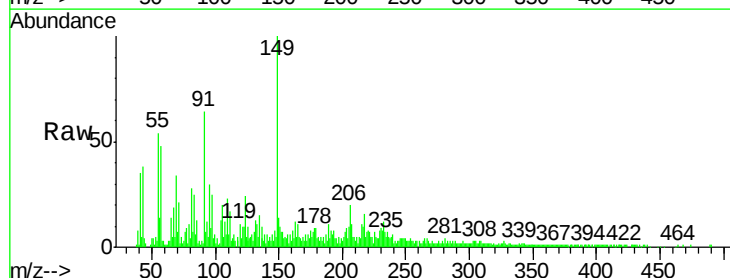
Tgt Ion:149 Resp: 52937

Ion Ratio Lower Upper

149 100

91 64.3 56.8 85.2

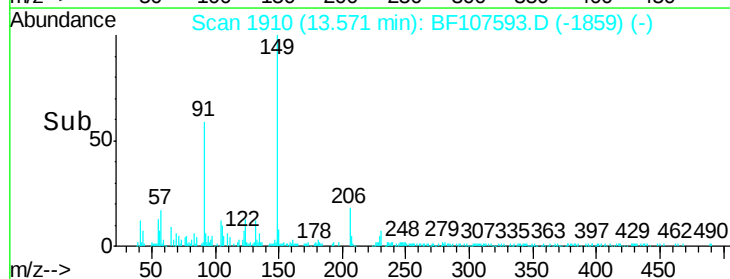
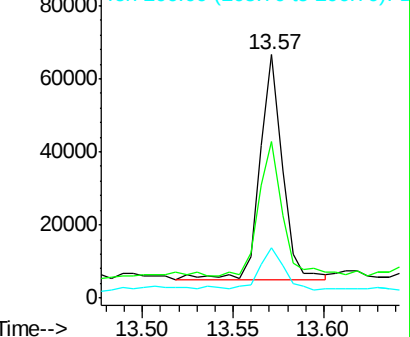
206 20.5 14.1 21.1

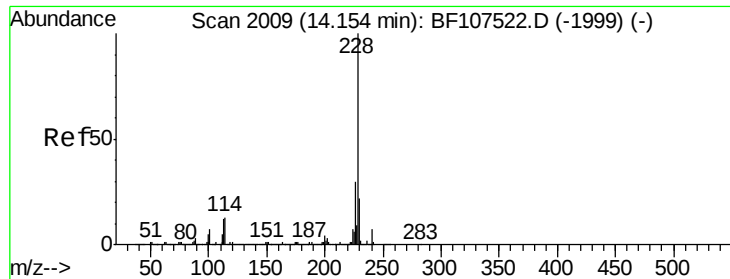


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





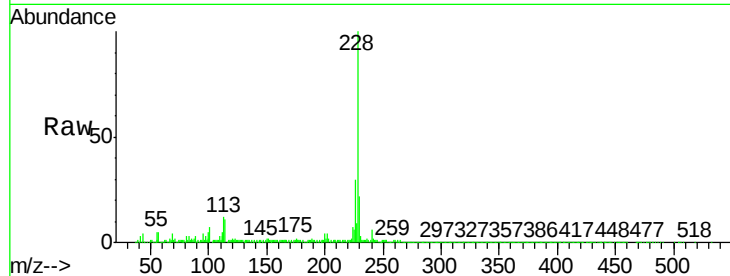
#80
Benzo(a)anthracene
Concen: 28.88 ng
RT: 14.16 min Scan# 2010
Delta R.T. 0.01 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Instrument :
BNA_F
ClientSampled :
SB9-12-0

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.6	33.8
229	22.2	15.8	23.6

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8/1/2018 10:27:00 AM

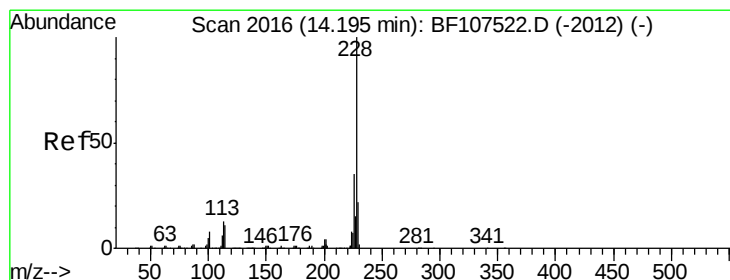
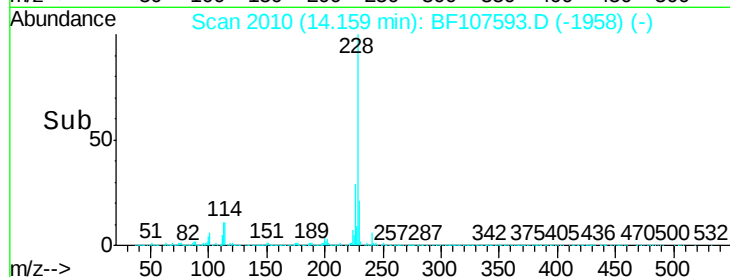
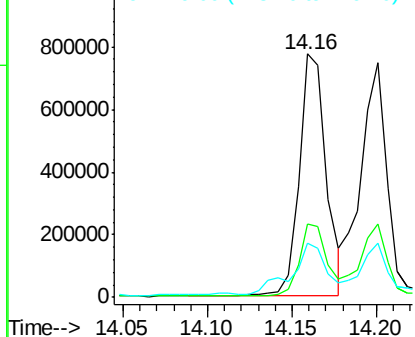


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82
Chrysene
Concen: 28.53 ng
RT: 14.20 min Scan# 2017
Delta R.T. 0.01 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

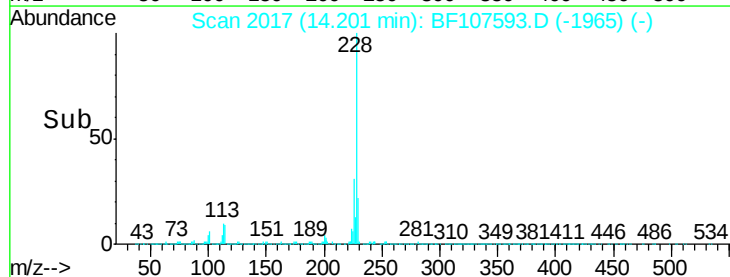
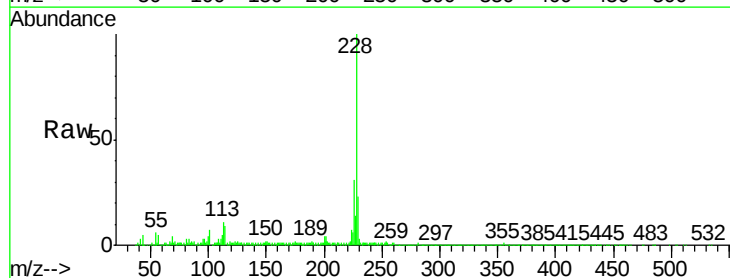
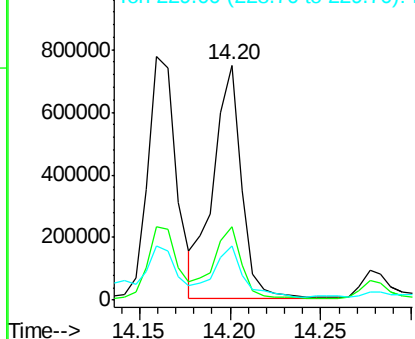
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	23.0	16.2	24.4

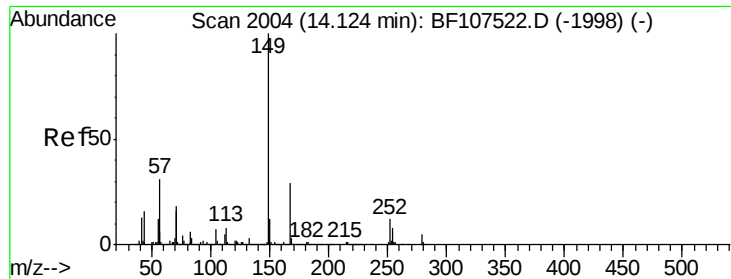
Abundance

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





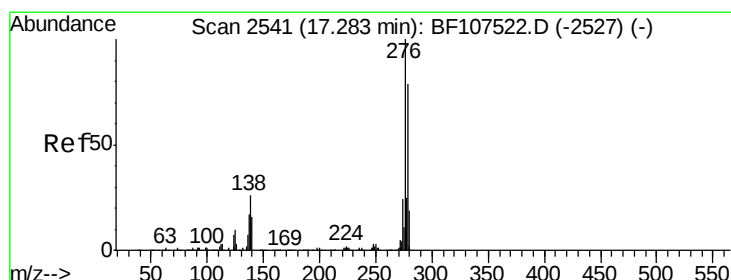
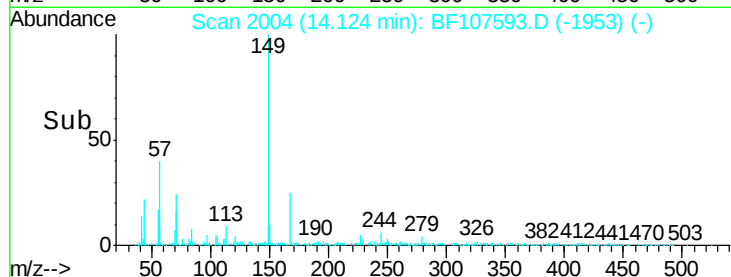
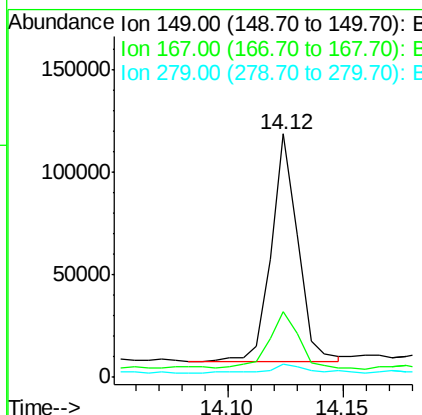
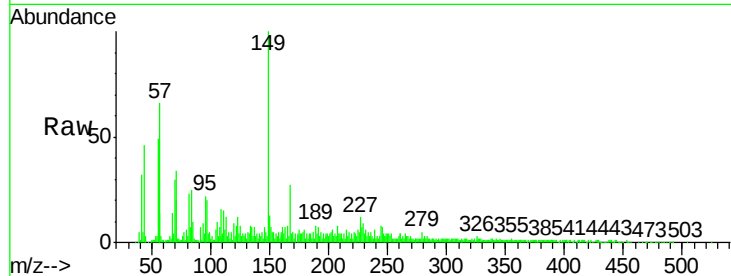
#83
Bis(2-ethylhexyl)phthalate
Concen: 4.20 ng
RT: 14.12 min Scan# 2004
Delta R.T. -0.00 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Instrument :
BNA_F
ClientSampleId :
SB9-12-0

Tot Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.3	31.9
279	5.3	3.0	4.4

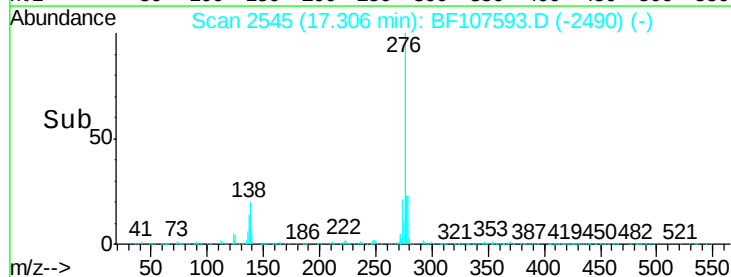
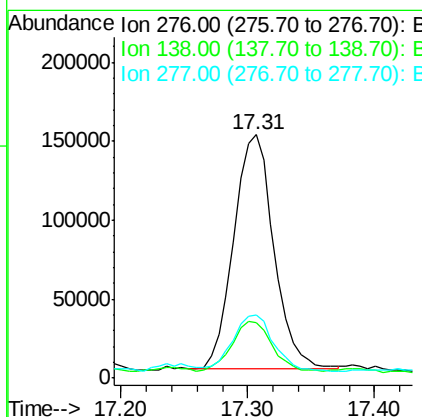
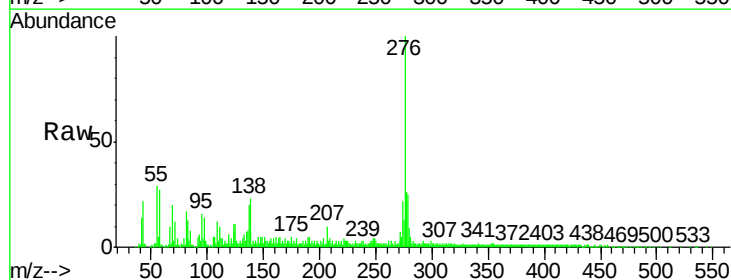
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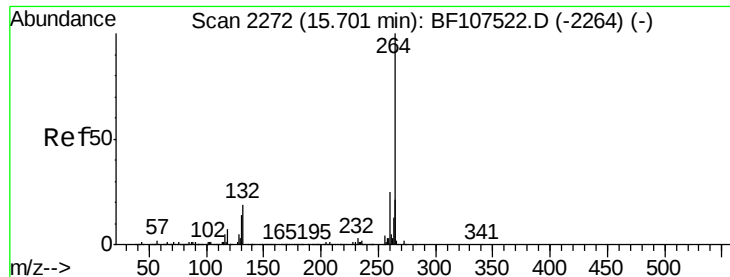
Sohil
8/1/2018 10:27:00 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 13.39 ng
RT: 17.31 min Scan# 2545
Delta R.T. 0.02 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.1	25.0	37.6
277	25.4	20.1	30.1





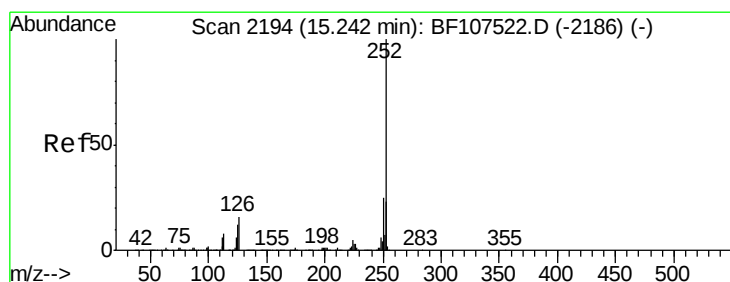
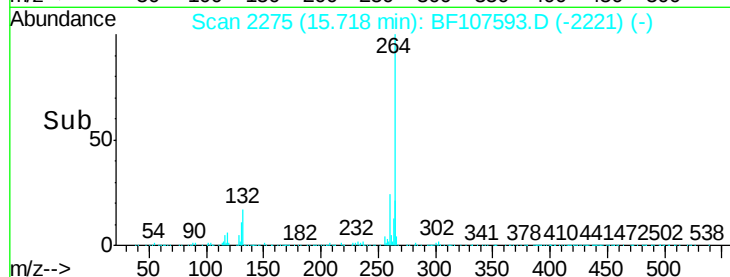
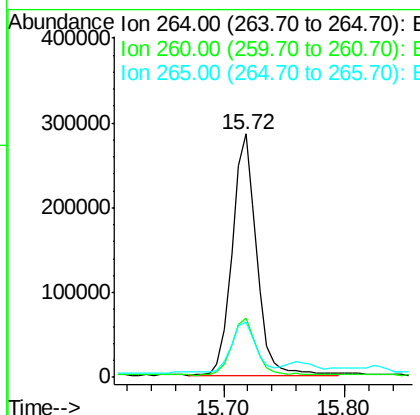
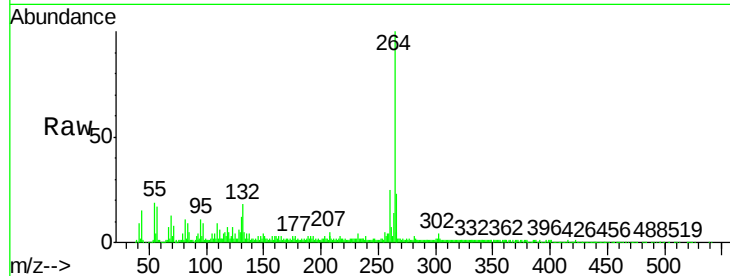
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.72 min Scan# 2275
Delta R.T. 0.02 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Instrument :
BNA_F
ClientSampleId :
SB9-12-0

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	22.8	17.5	26.3

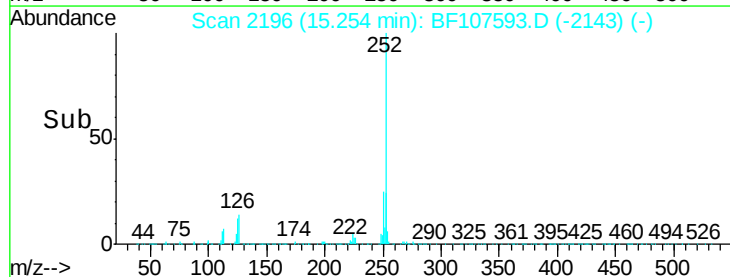
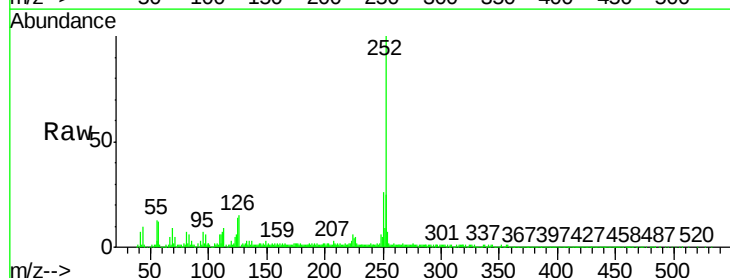
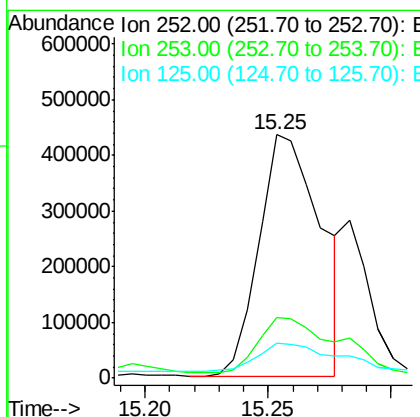
Manual Integrations
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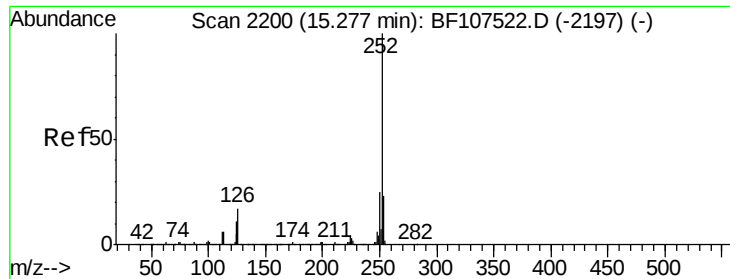
Sohil
8/1/2018 10:27:00 AM



#87
Benzo(b)fluoranthene
Concen: 34.90 ng m
RT: 15.25 min Scan# 2196
Delta R.T. 0.01 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.0	25.6
125	14.2	9.0	13.6





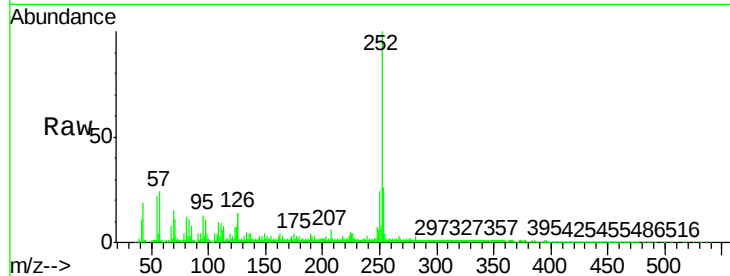
#88
Benzo(k)fluoranthene
Concen: 11.12 ng m
RT: 15.28 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Instrument :
BNA_F
ClientSampled :
SB9-12-0

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.9	26.9
125	14.2	10.2	15.2

Manual Integrations
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Sohil
8/1/2018 10:27:00 AM

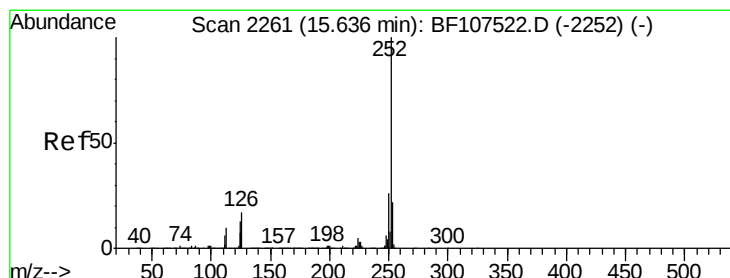
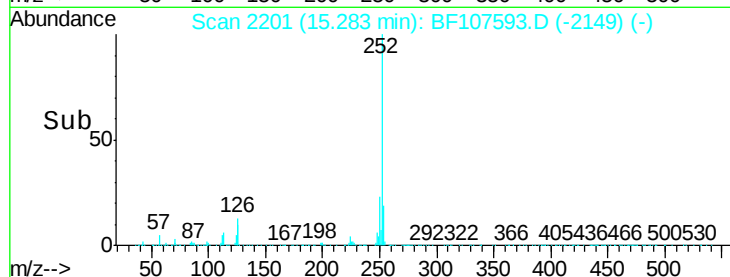
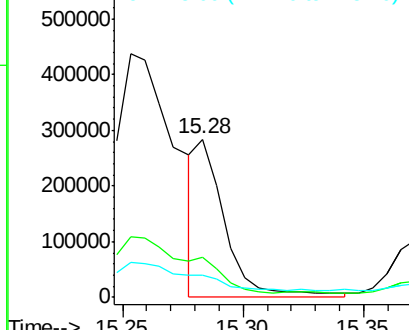


Abundance

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: 27.09 ng
RT: 15.65 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

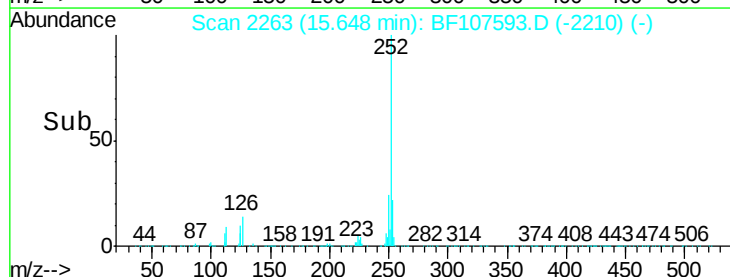
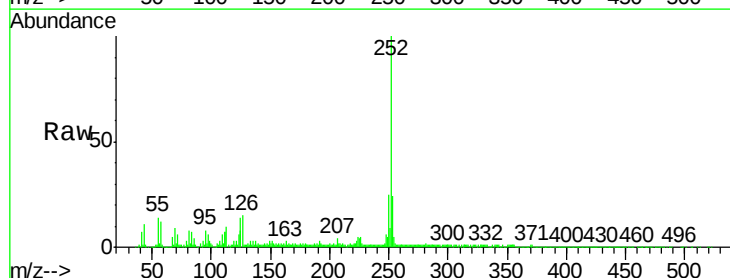
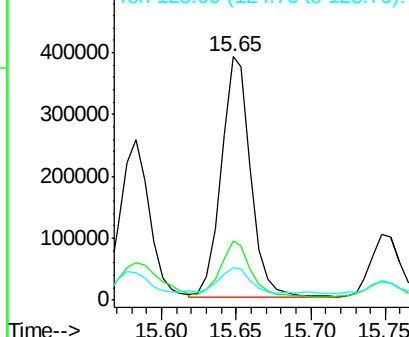
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.1	25.7
125	13.5	9.8	14.6

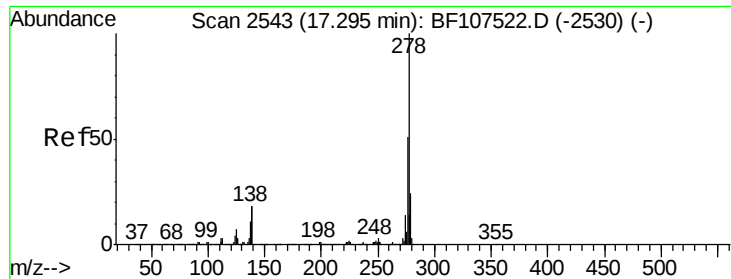
Abundance

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





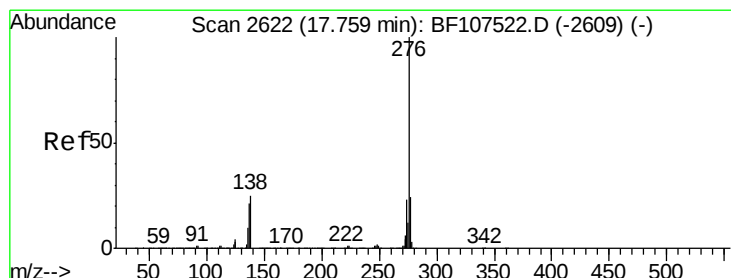
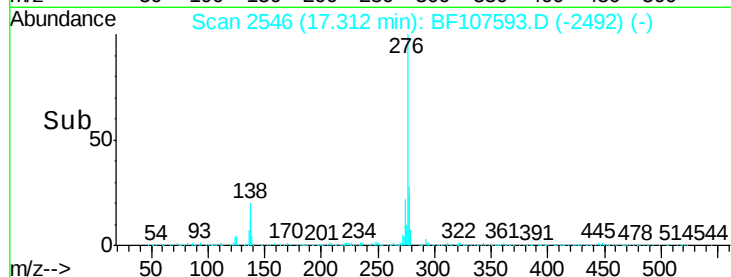
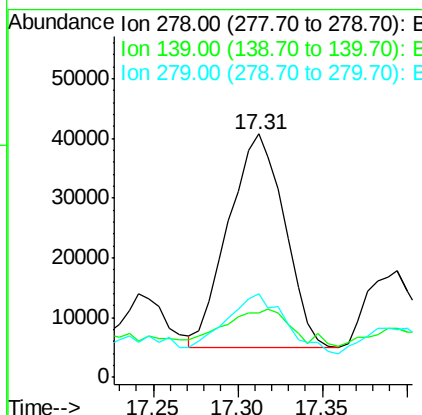
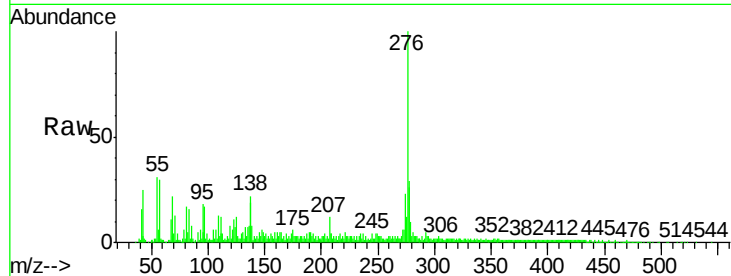
#90
Dibenzo(a,h)anthracene
Concen: 4.79 ng
RT: 17.31 min Scan# 2546
Delta R.T. 0.02 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Instrument :
BNA_F
ClientSampled :
SB9-12-0

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.2	15.9	23.9#
279	34.6	19.0	28.4#

Manual Integrations
APPROVED

Sohil
8/1/2018 10:27:00 AM



#91
Benzo(g,h,i)perylene
Concen: 18.52 ng
RT: 17.79 min Scan# 2627
Delta R.T. 0.03 min
Lab File: BF107593.D
Acq: 23 Jul 2018 17:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.8	17.9	26.9#
138	23.1	21.8	32.8

