

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062518\
 Data File : BF106793.D
 Acq On : 26 Jun 2018 00:59
 Operator : JU/SJ
 Sample : J3241-13 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

Manual Integrations
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Quant Time: Jun 26 05:09:41 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 25 18:50:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	47712	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	170987	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	77076	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	144695	20.00	ng	0.00
75) Chrysene-d12	14.15	240	113733	20.00	ng	-0.01
86) Perylene-d12	15.69	264	85274	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	118702	42.13	ng	0.00
7) Phenol-d6	6.60	99	148136	42.10	ng	-0.02
23) Nitrobenzene-d5	7.52	82	82240	26.73	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	36333	40.67	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	163612	25.63	ng	-0.01
78) Terphenyl-d14	13.08	244	191147	40.71	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	38394	4.803	ng	99
37) 2-Methylnaphthalene	8.96	142	24962	4.711	ng	94
49) Dimethylphthalate	9.71	163	25385	4.391	ng	# 96
51) Acenaphthene	10.04	154	43900	9.133	ng	97
54) Dibenzofuran	10.21	168	46832	7.115	ng	95
57) Fluorene	10.55	166	69661	13.337	ng	99
70) Phenanthrene	11.52	178	421944	60.460	ng	99
71) Anthracene	11.57	178	156881	22.023	ng	99
72) Carbazole	11.73	167	29432	4.413	ng	98
74) Fluoranthene	12.72	202	559495	72.736	ng	94
77) Pyrene	12.95	202	479417	63.923	ng	99
80) Benzo(a)anthracene	14.14	228	237874	34.317	ng	98
82) Chrysene	14.18	228	178271	27.955	ng	97
85) Indeno(1,2,3-cd)pyrene	17.27	276	80120	14.805	ng	# 87
87) Benzo(b)fluoranthene	15.24	252	194567m	36.730	ng	
88) Benzo(k)fluoranthene	15.26	252	58431m	11.583	ng	
89) Benzo(a)pyrene	15.62	252	137700	29.241	ng	95
90) Dibenzo(a,h)anthracene	17.28	278	19798	4.961	ng	# 86
91) Benzo(a,h,i)perylene	17.75	276	74547	19.111	ng	# 89

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

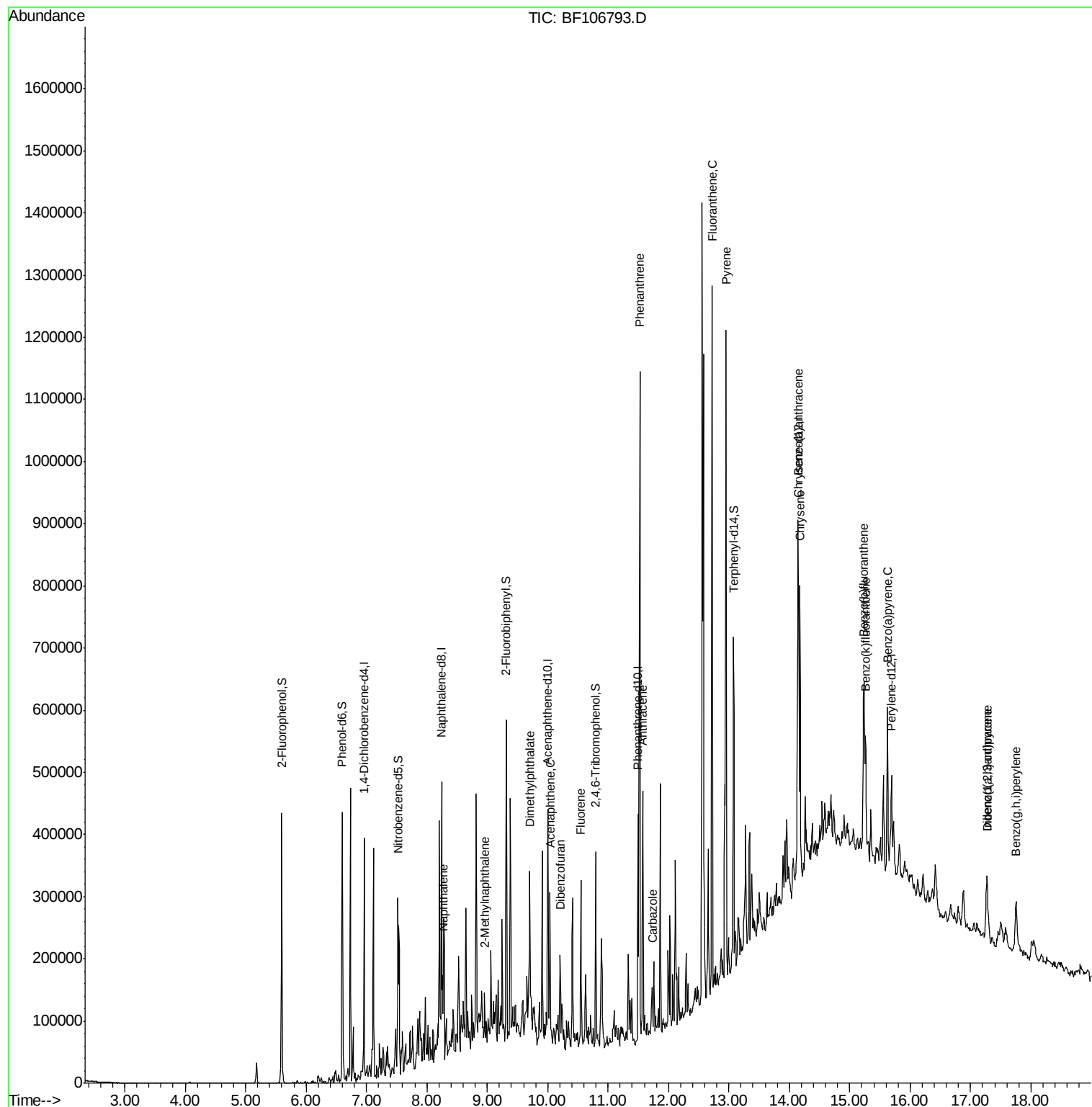
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#1

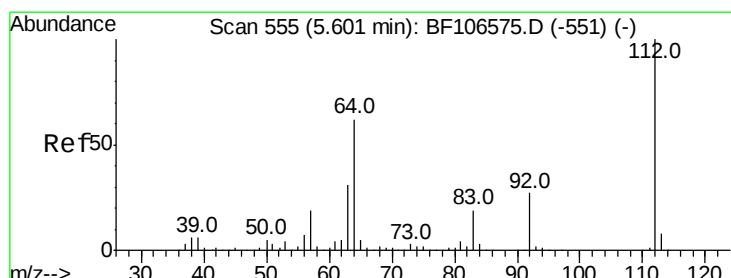
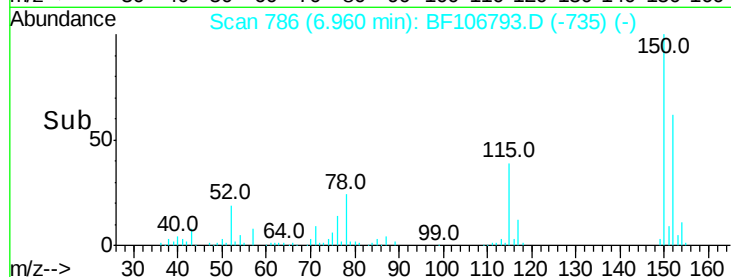
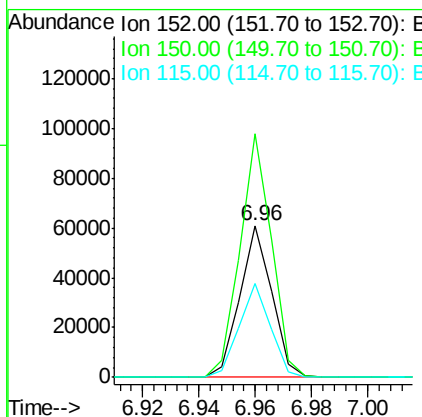
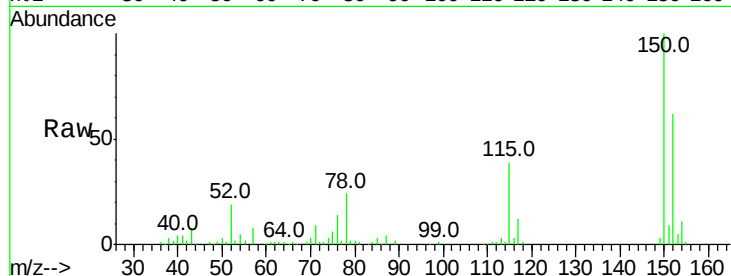
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.00 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.6	124.6	186.8
115	61.9	50.1	75.1

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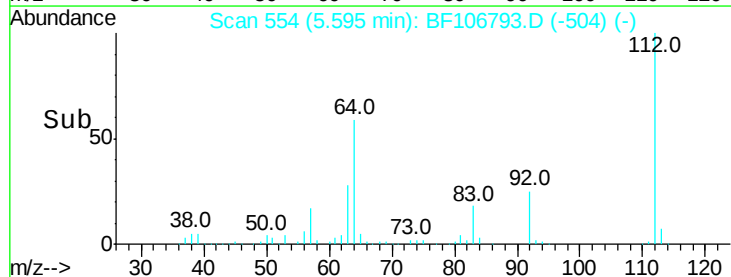
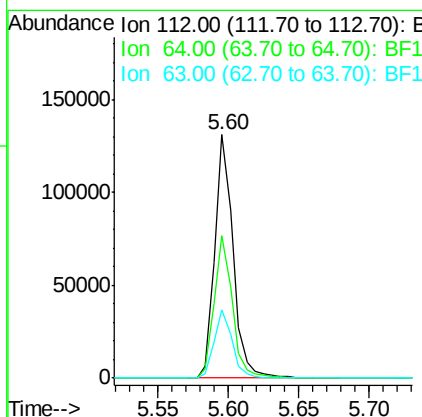
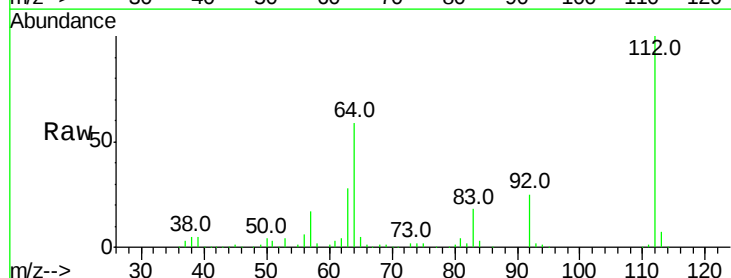
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#5

2-Fluorophenol
Concen: 42.128 ng
RT: 5.60 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	47.9	71.9
63	28.1	23.7	35.5





#7

Phenol-d6

Concen: 42.099 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Instrument :

BNA_F

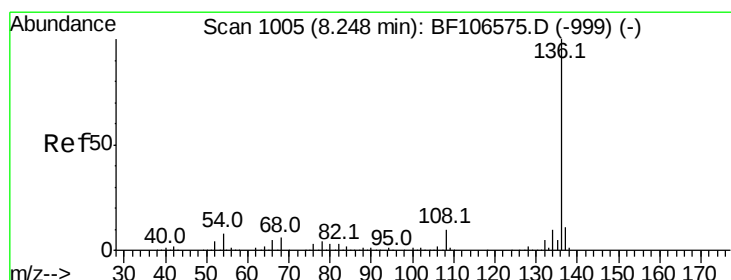
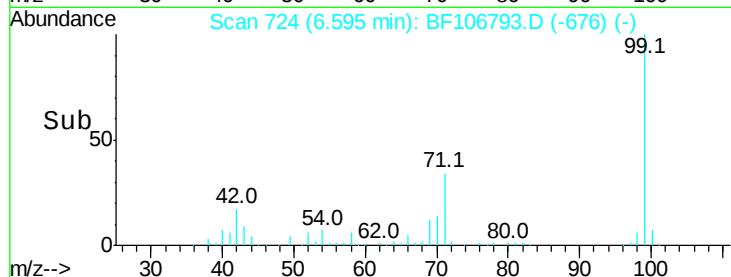
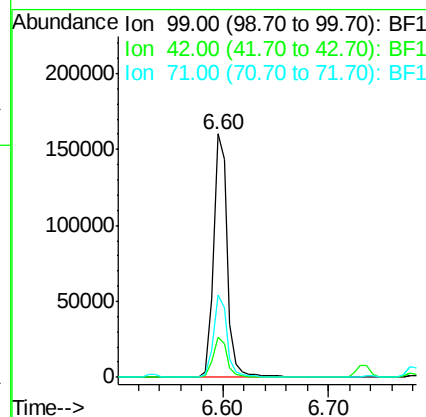
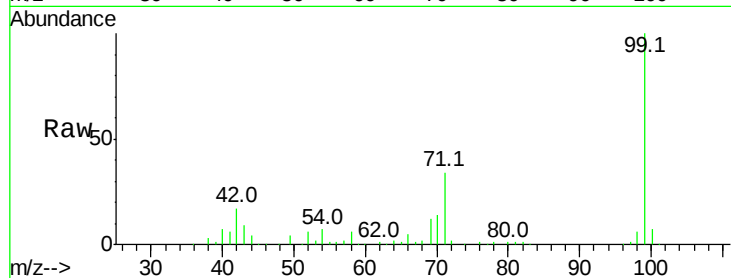
ClientSampleId :

HR-06-062218-A

Tot Ion:	99	Resp:	148136
Ion Ratio	Lower	Upper	
99	100		
42	16.7	14.5	21.7
71	34.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

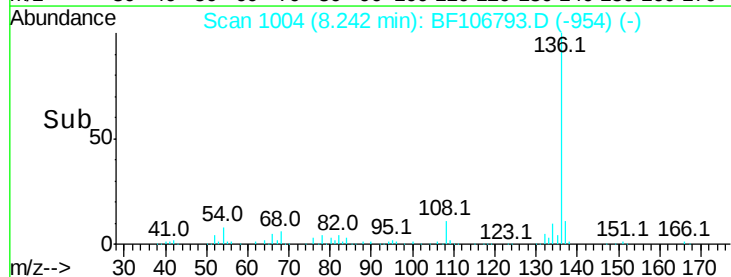
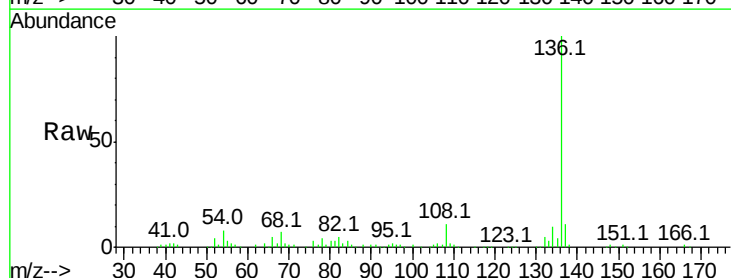
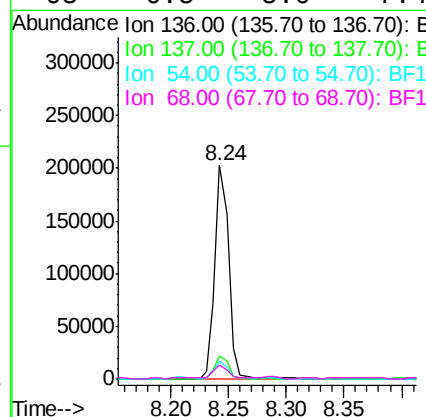
RT: 8.24 min Scan# 1004

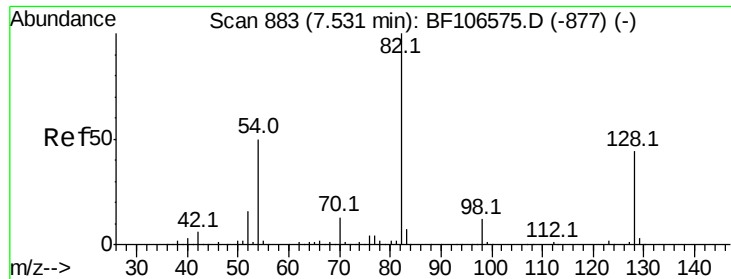
Delta R.T. -0.01 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Tgt Ion:	136	Resp:	170987
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	8.4	6.6	9.8
68	6.5	5.0	7.4





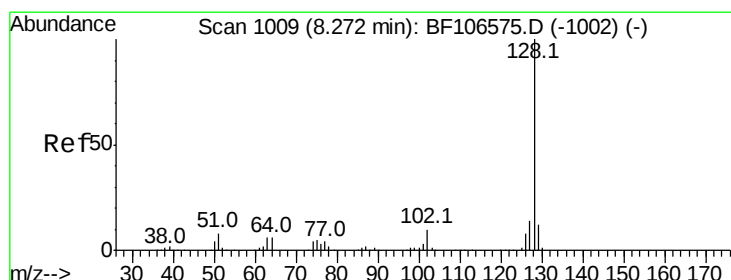
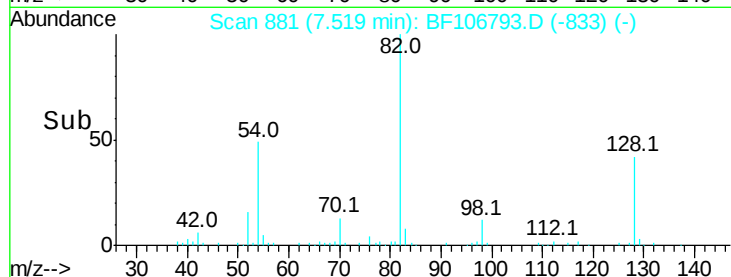
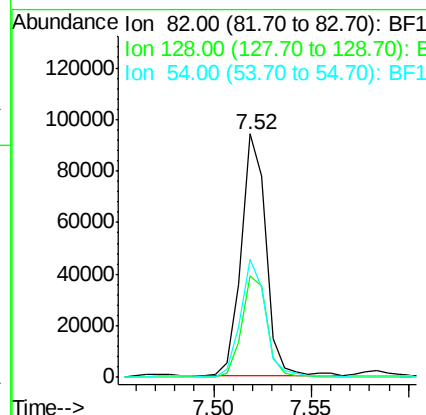
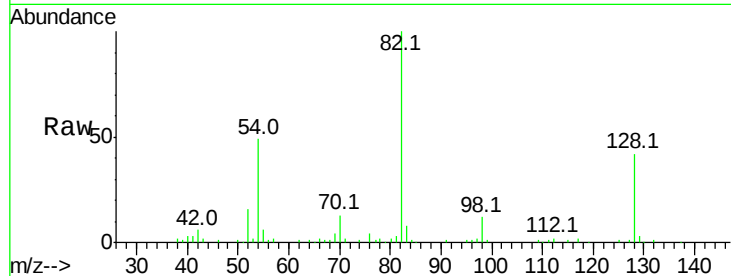
#23
 Nitrobenzene-d5
 Concen: 26.729 ng
 RT: 7.52 min Scan# 881
 Delta R.T. -0.02 min
 Lab File: BF106793.D
 Acq: 26 Jun 2018 00:59

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.5	36.1	54.1
54	48.8	41.4	62.2

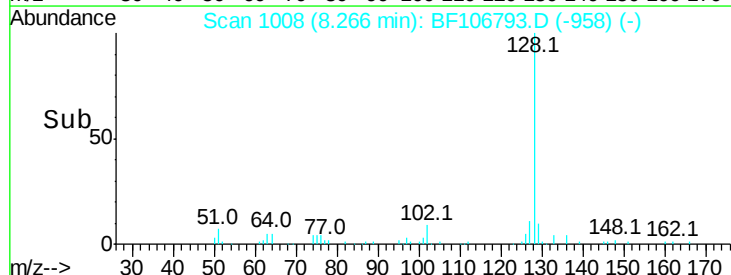
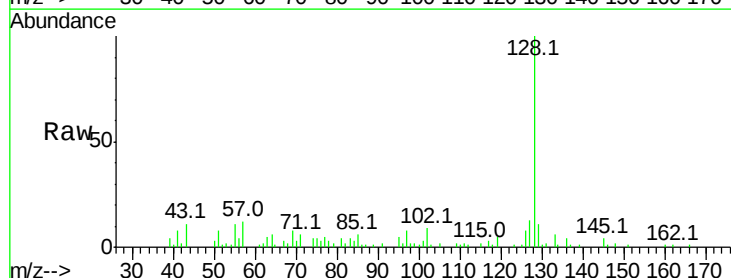
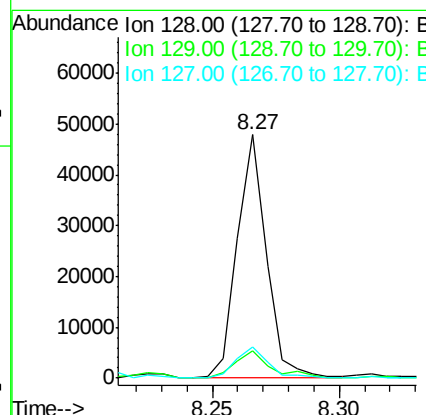
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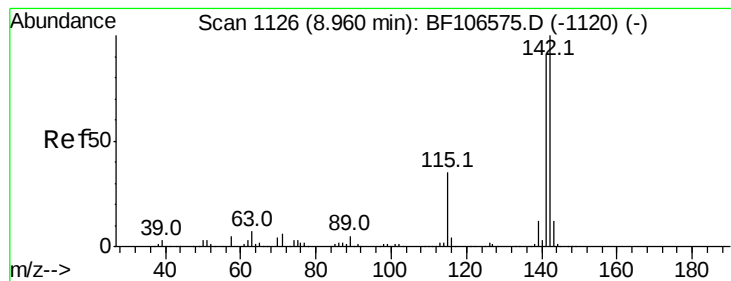
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#31
 Naphthalene
 Concen: 4.803 ng
 RT: 8.27 min Scan# 1008
 Delta R.T. -0.01 min
 Lab File: BF106793.D
 Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.9	10.9	16.3





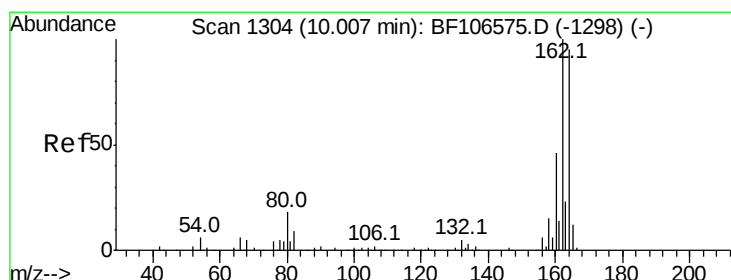
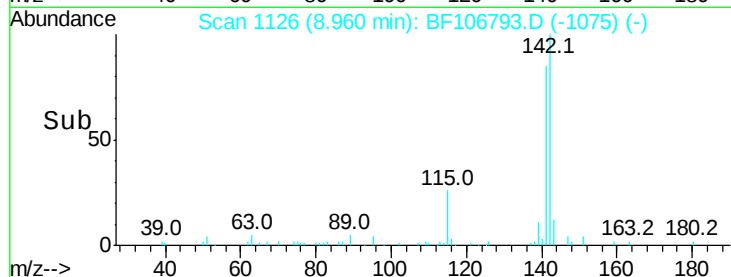
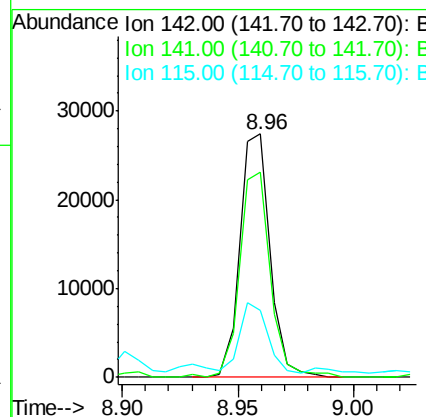
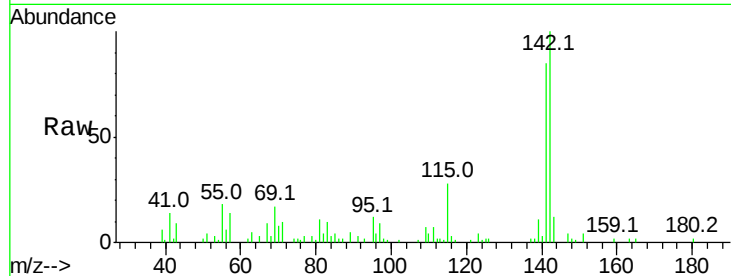
#37
2-Methylnaphthalene
Concen: 4.711 ng
RT: 8.96 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.5	70.8	106.2
115	27.5	26.1	39.1

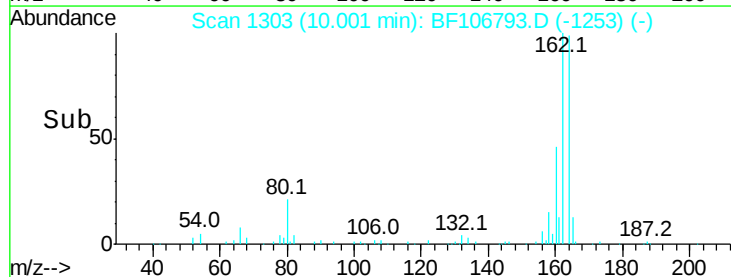
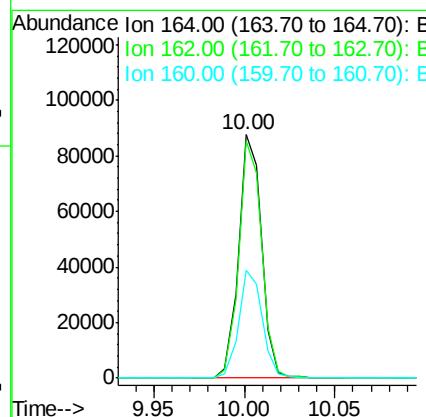
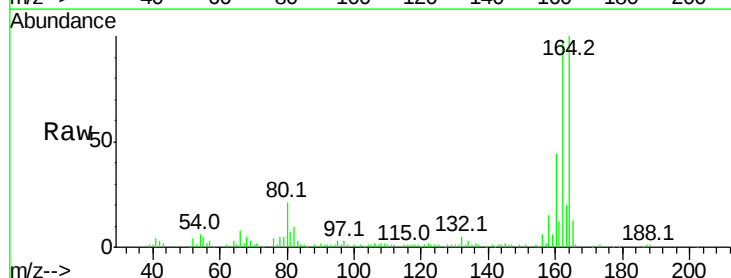
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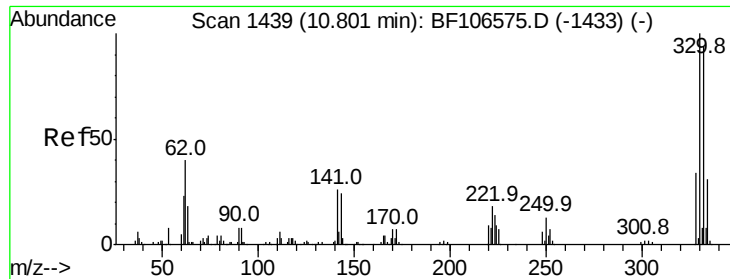
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.3	86.1	129.1
160	44.3	38.3	57.5





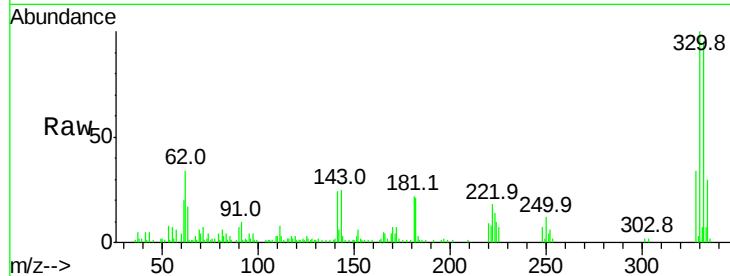
#41
 2,4,6-Tribromophenol
 Concen: 40.671 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF106793.D
 Acq: 26 Jun 2018 00:59

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

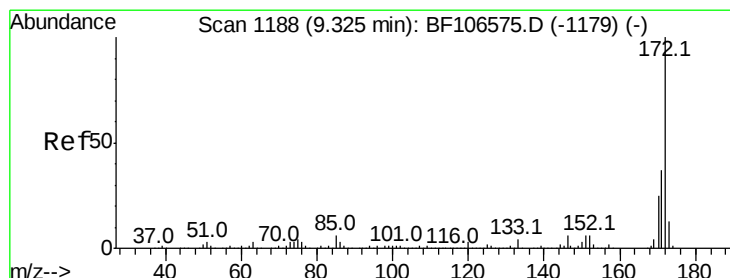
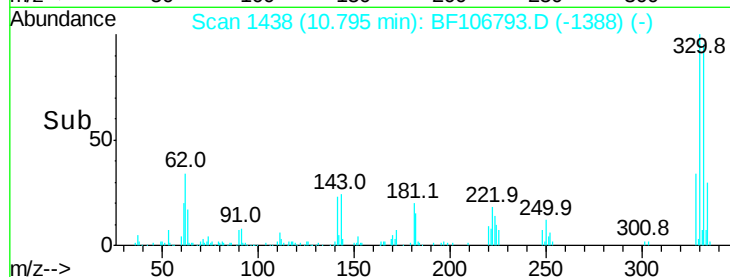
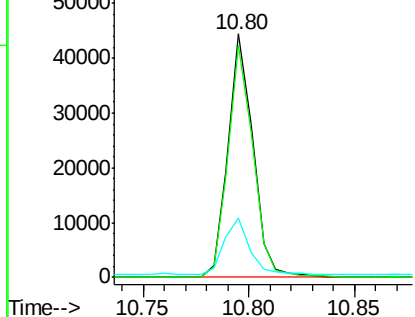
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.2	77.0	115.6	
141	24.2	29.9	44.9	

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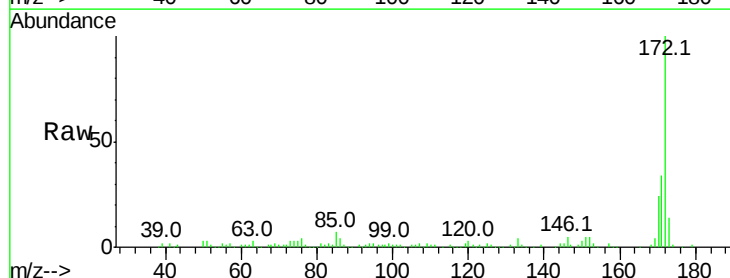


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

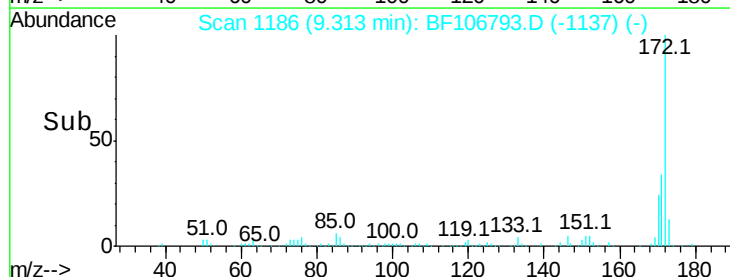
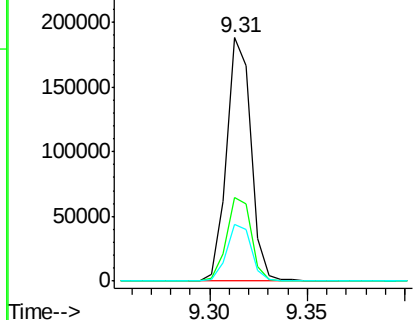


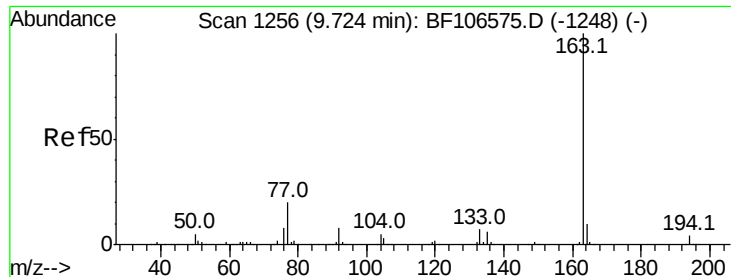
#44
 2-Fluorobiphenyl
 Concen: 25.626 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF106793.D
 Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.4	29.7	44.5	
170	23.5	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





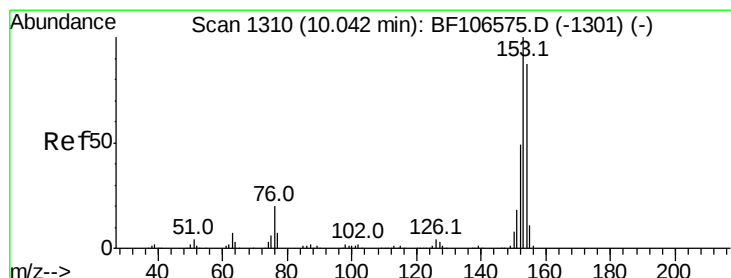
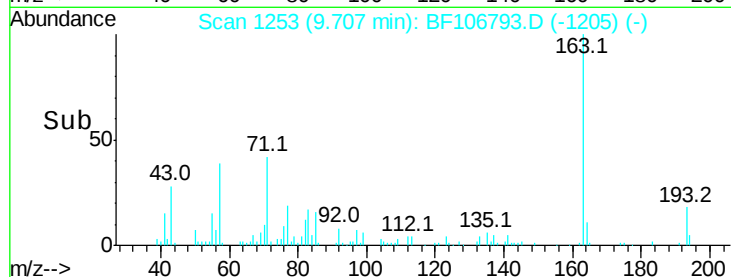
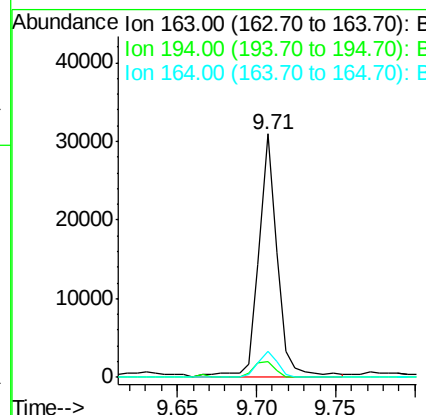
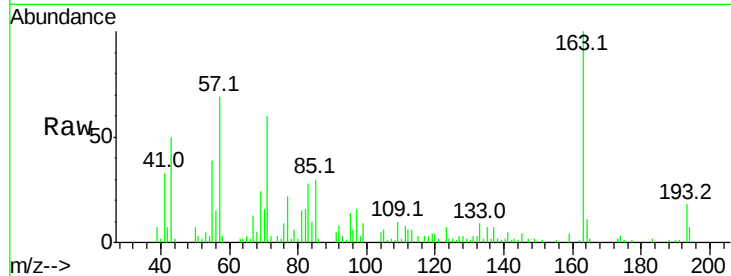
#49
Dimethylphthalate
Concen: 4.391 ng
RT: 9.71 min Scan# 1253
Delta R.T. -0.02 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Instrument :
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HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
163	100		
194	6.6	2.7	4.1#
164	10.9	8.2	12.2

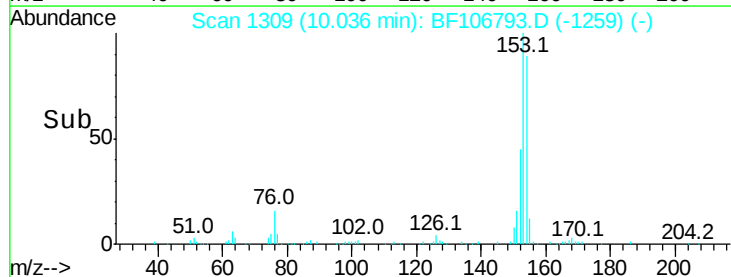
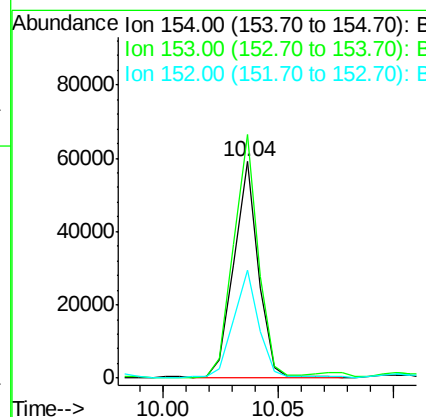
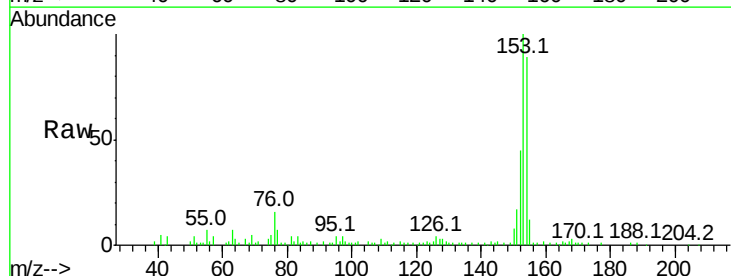
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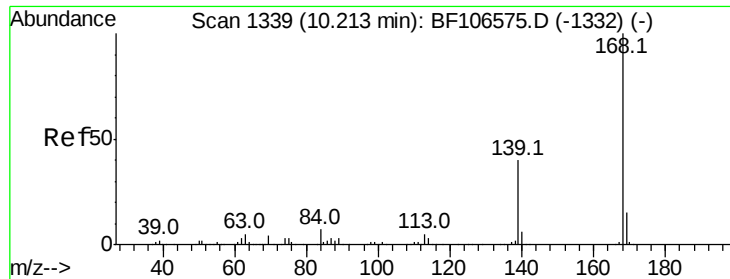
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#51
Acenaphthene
Concen: 9.133 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.6	91.2	136.8
152	50.1	43.8	65.8





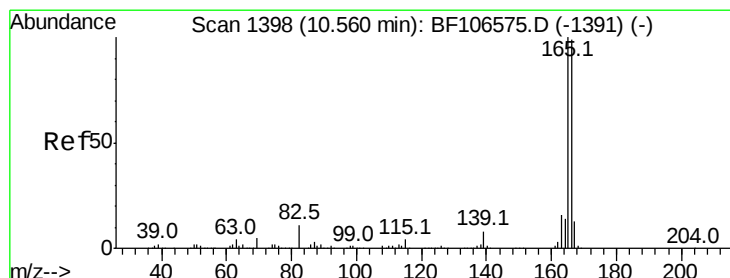
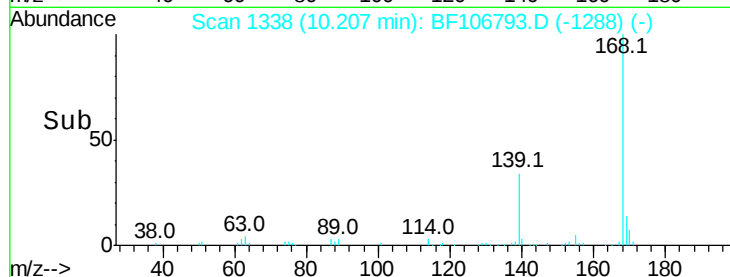
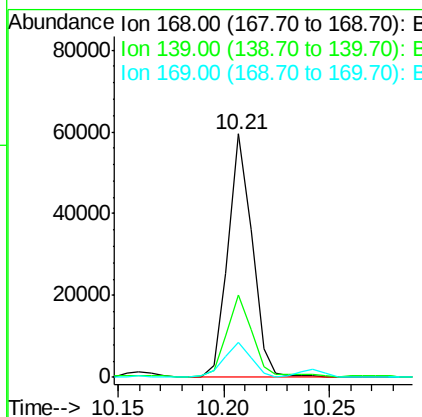
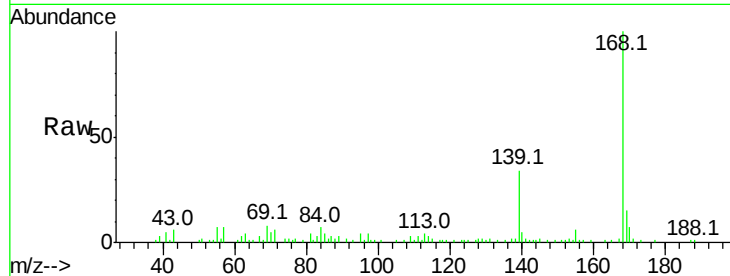
#54
Dibenzofuran
Concen: 7.115 ng
RT: 10.21 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.1	30.1	45.1
169	14.5	10.9	16.3

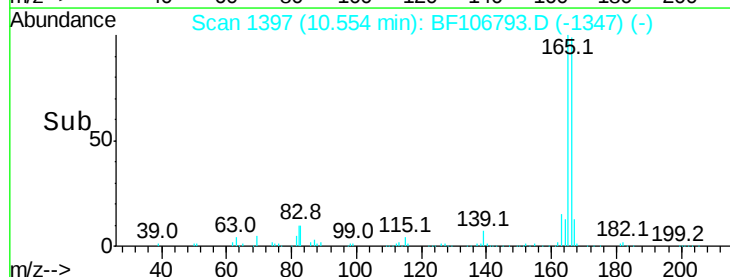
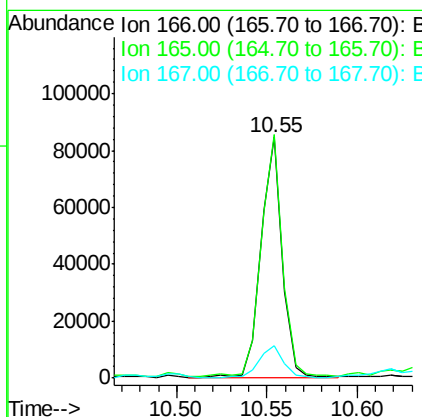
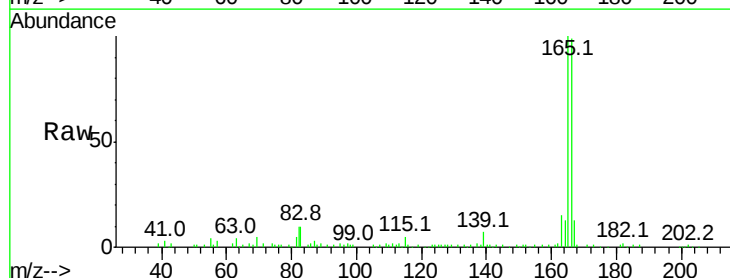
Manual Integrations
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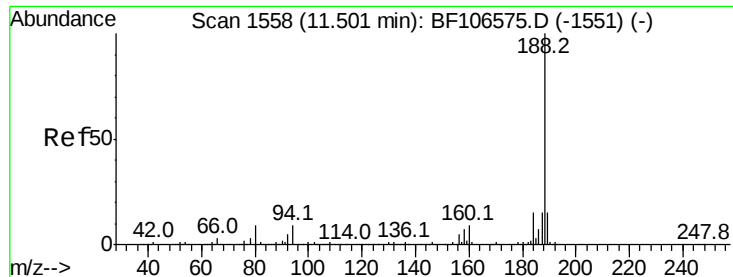
Sohil
6/27/2018 10:55:56 AM



#57
Fluorene
Concen: 13.337 ng
RT: 10.55 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.2	79.8	119.8
167	13.4	10.6	16.0





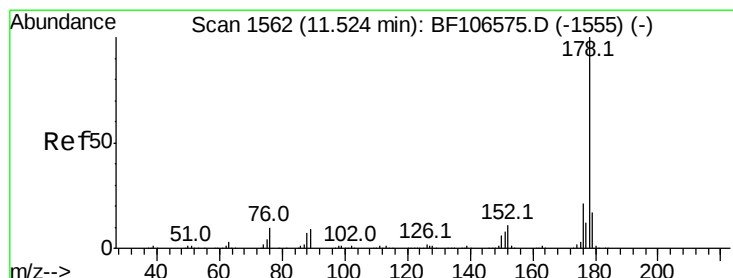
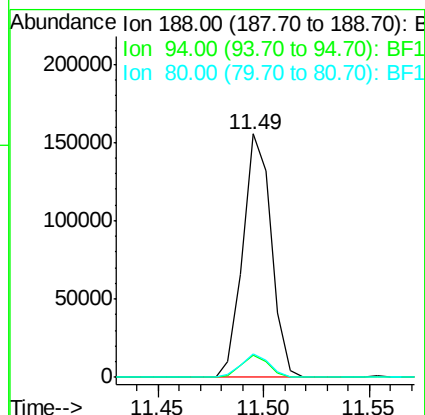
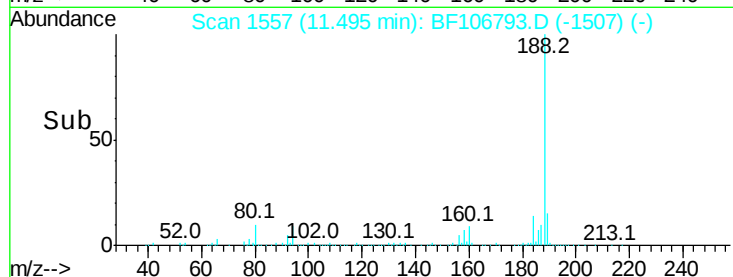
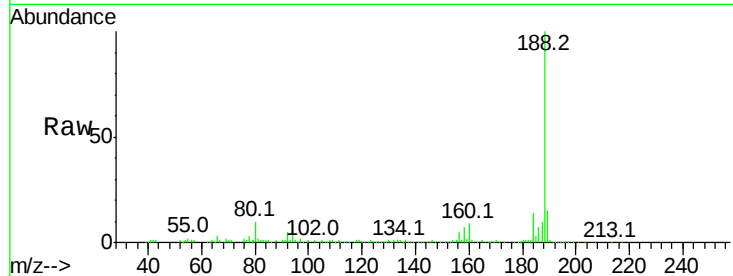
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1557
Delta R.T. -0.01 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.0	8.5	12.7
80	9.8	9.2	13.8

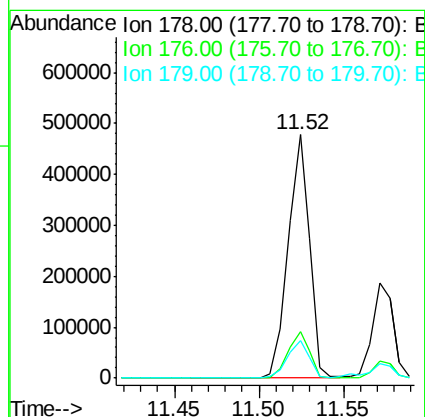
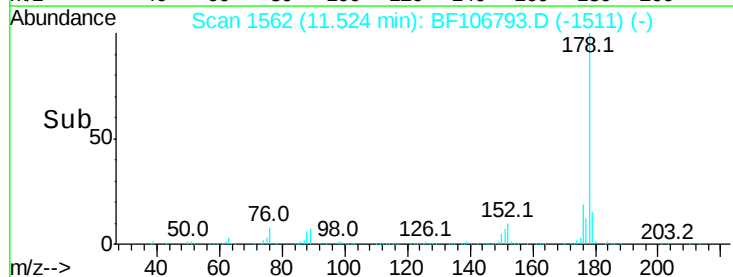
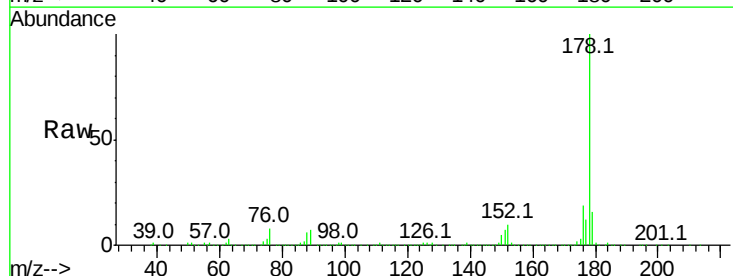
Manual Integrations
APPROVED

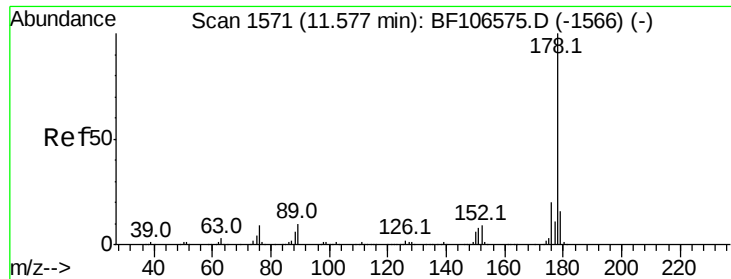
Sohil
6/27/2018 10:55:56 AM



#70
Phenanthrene
Concen: 60.460 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.6	13.0	19.6





#71

Anthracene

Concen: 22.023 ng

RT: 11.57 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Instrument :

BNA_F

ClientSampleId :

HR-06-062218-A

Tot Ion:178 Resp: 156881

Ion Ratio Lower Upper

178 100

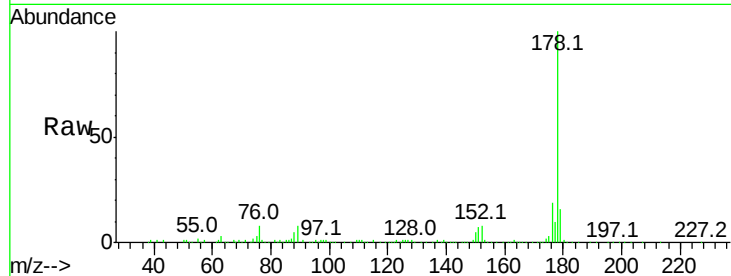
176 18.5 15.4 23.2

179 15.6 12.6 19.0

Manual Integrations
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Sohil

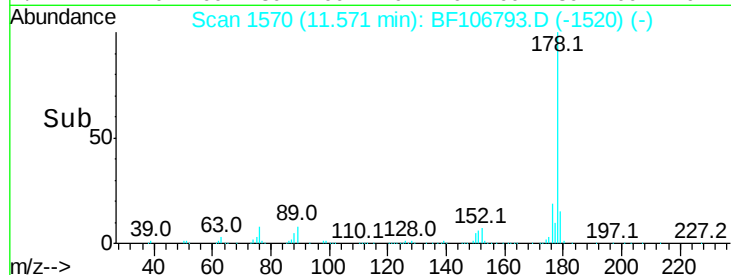
6/27/2018 10:55:56 AM



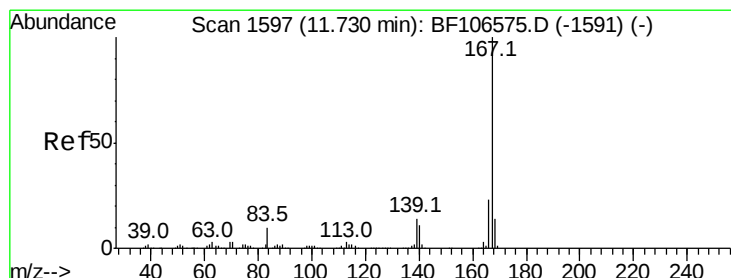
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#72

Carbazole

Concen: 4.413 ng

RT: 11.73 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

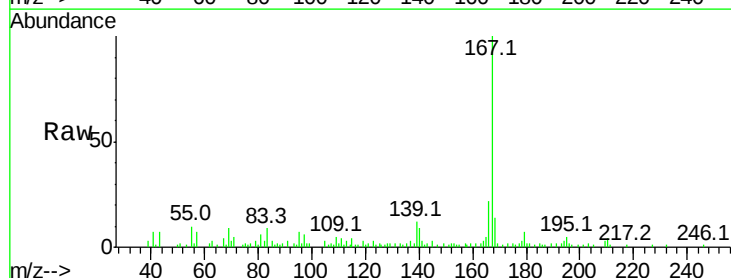
Tgt Ion:167 Resp: 29432

Ion Ratio Lower Upper

167 100

166 22.2 17.6 26.4

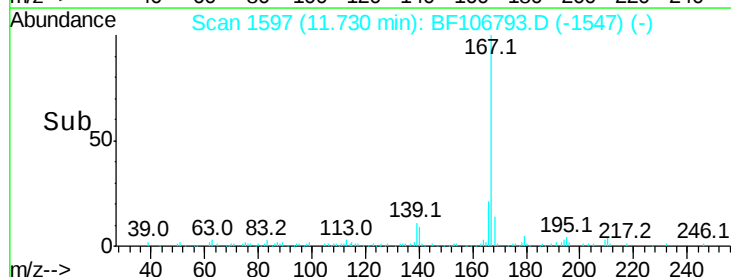
139 12.0 10.9 16.3



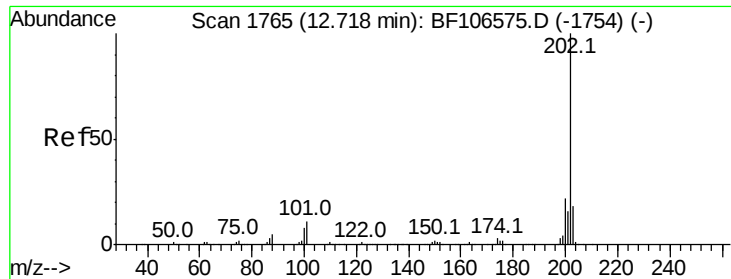
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time-->



#74

Fluoranthene

Concen: 72.736 ng

RT: 12.72 min Scan# 1766

Delta R.T. 0.01 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Instrument :

BNA_F

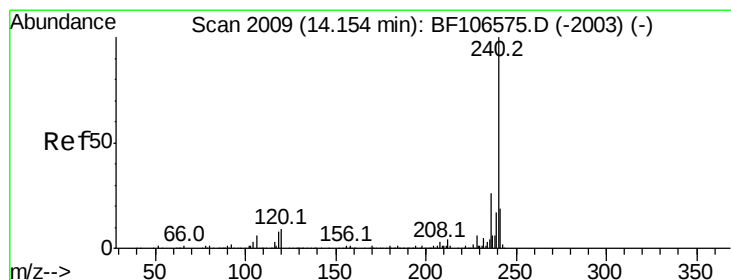
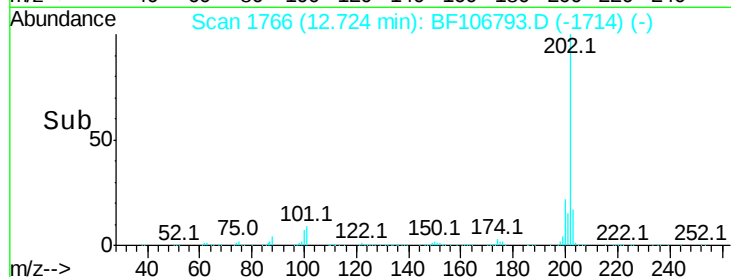
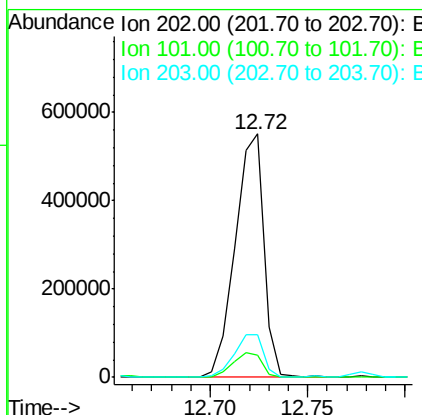
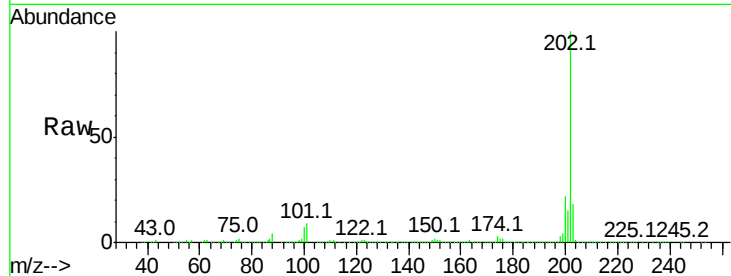
ClientSampleId :

HR-06-062218-A

Tot Ion	Ratio	Resp	Lower	Upper
202	100	559495		
101	9.3	0.0	34.1	
203	17.6	0.0	38.1	

Manual Integrations
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Sohil
6/27/2018 10:55:56 AM



#75

Chrysene-d12

Concen: 20.000 ng

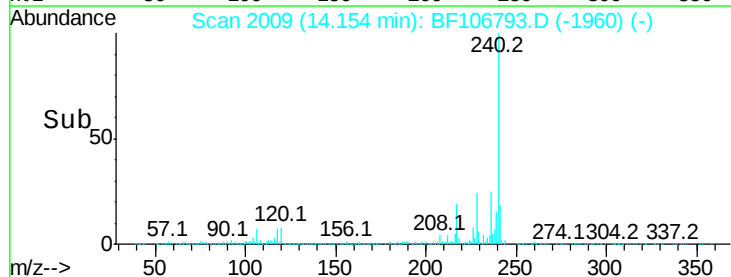
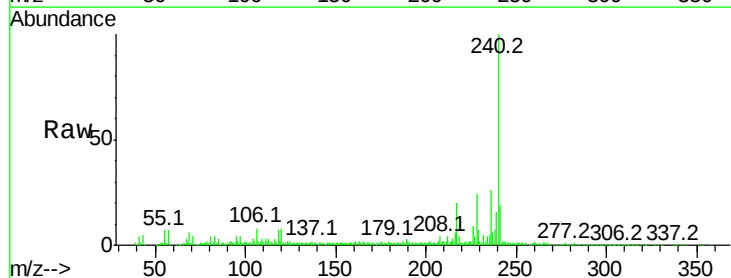
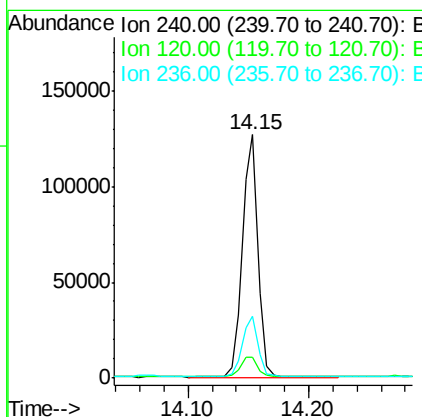
RT: 14.15 min Scan# 2009

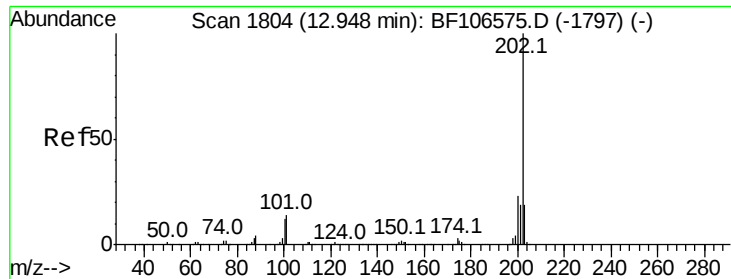
Delta R.T. -0.01 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	113733		
120	8.5	9.5	14.3#	
236	25.6	20.7	31.1	





#77

Pvrene

Concen: 63.923 ng

RT: 12.95 min Scan# 1805

Delta R.T. 0.01 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Instrument :

BNA_F

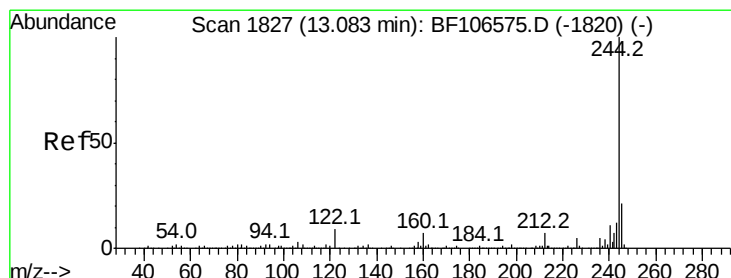
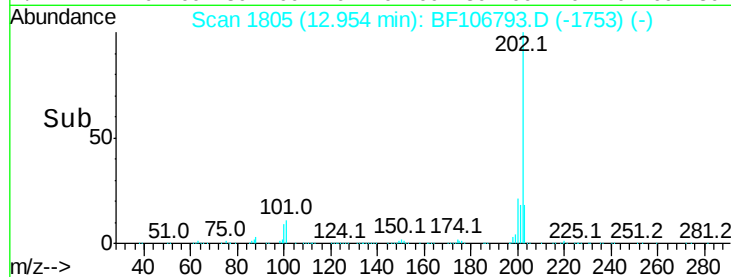
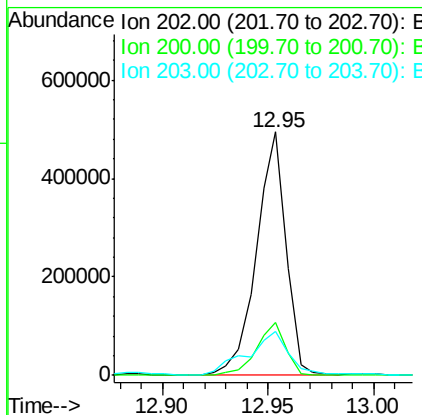
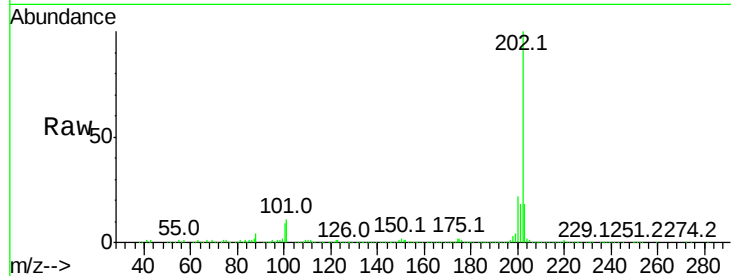
ClientSampleId :

HR-06-062218-A

Tot Ion:	202	Resp:	479417
Ion Ratio		Lower	Upper
202	100		
200	21.5	17.4	26.2
203	18.2	14.3	21.5

Manual Integrations
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#78

Terphenyl-d14

Concen: 40.711 ng

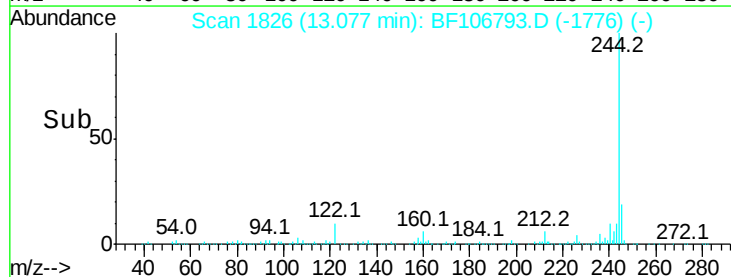
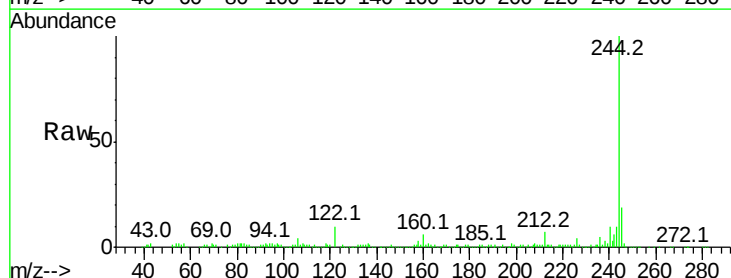
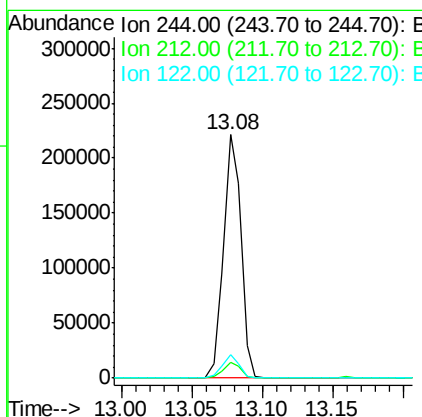
RT: 13.08 min Scan# 1826

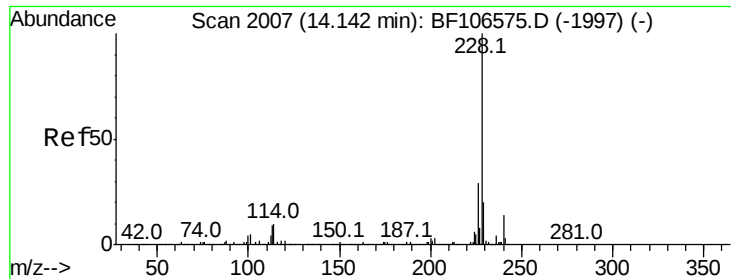
Delta R.T. -0.01 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Tgt Ion:	244	Resp:	191147
Ion Ratio		Lower	Upper
244	100		
212	6.6	5.4	8.0
122	9.7	11.0	16.4#





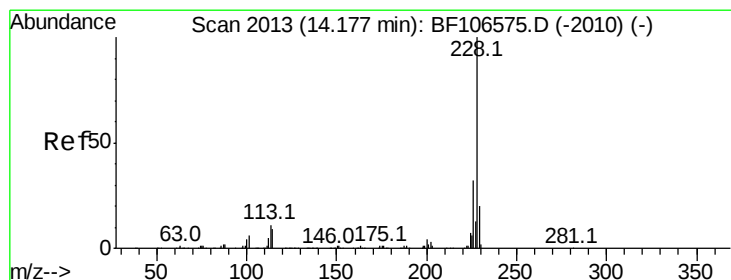
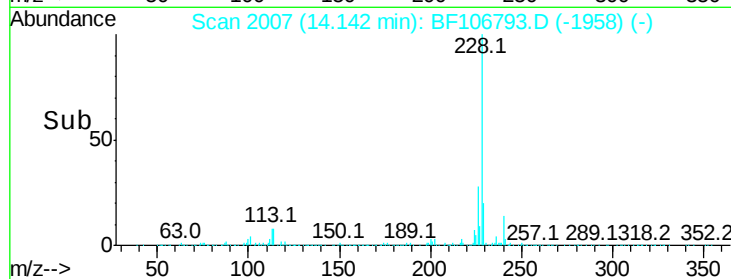
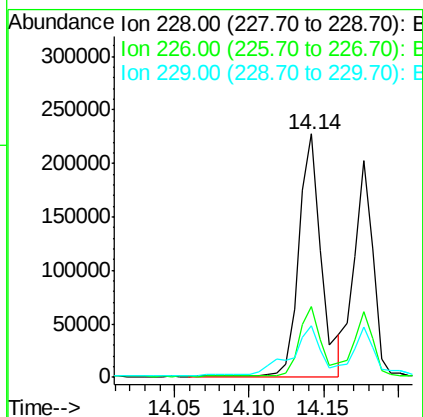
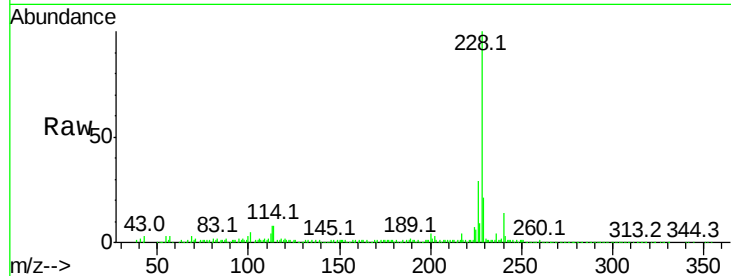
#80
Benzo(a)anthracene
Concen: 34.317 ng
RT: 14.14 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	21.0	15.8	23.6

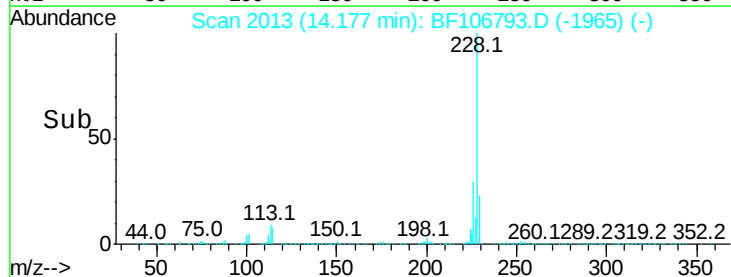
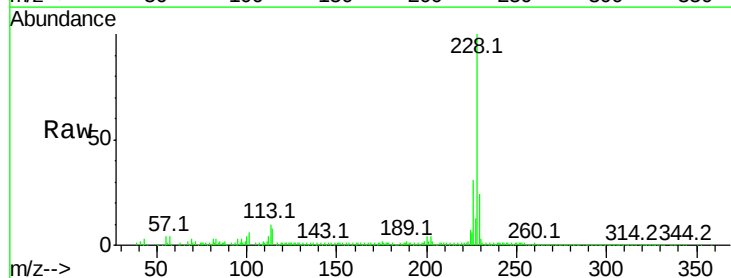
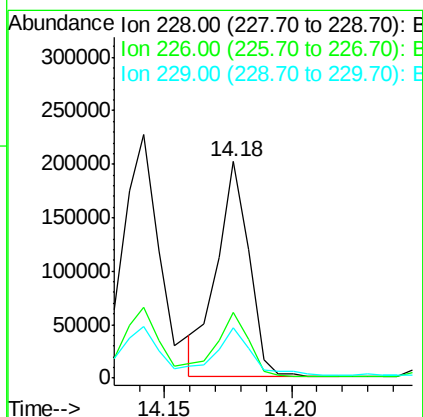
Manual Integrations
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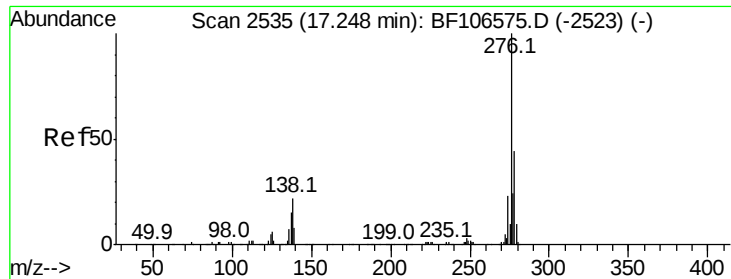
Sohil
6/27/2018 10:55:56 AM



#82
Chrysene
Concen: 27.955 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.02 min
Lab File: BF106793.D
Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	23.5	16.2	24.4





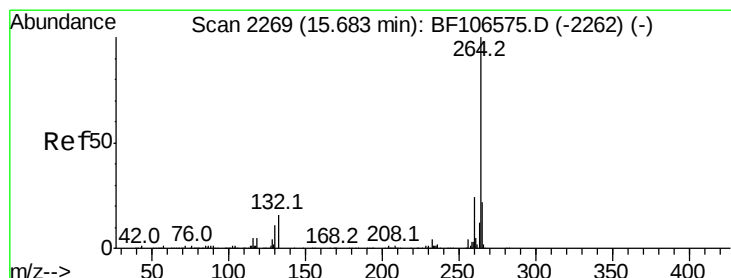
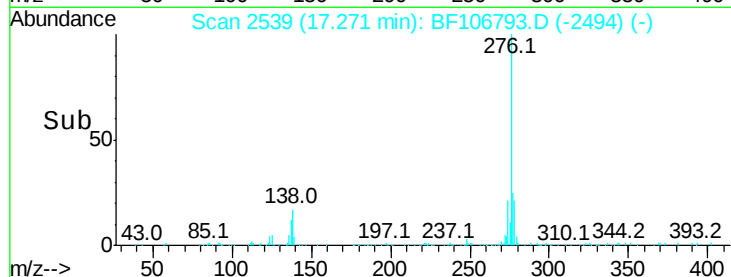
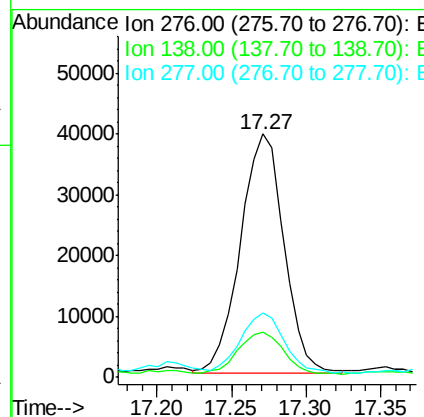
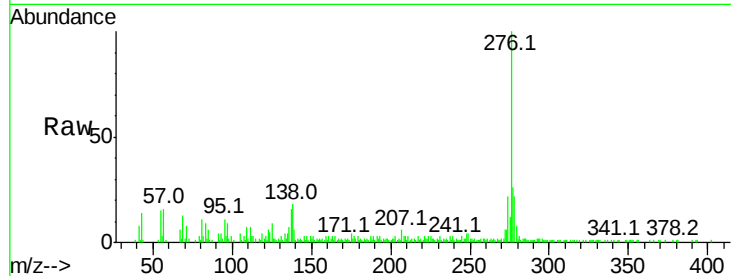
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.805 ng
 RT: 17.27 min Scan# 2539
 Delta R.T. -0.04 min
 Lab File: BF106793.D
 Acq: 26 Jun 2018 00:59

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.1	25.0	37.6#
277	25.4	20.1	30.1

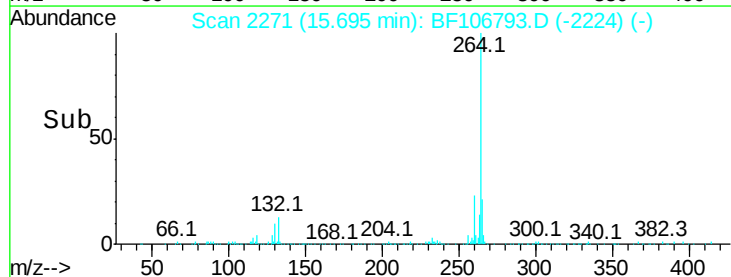
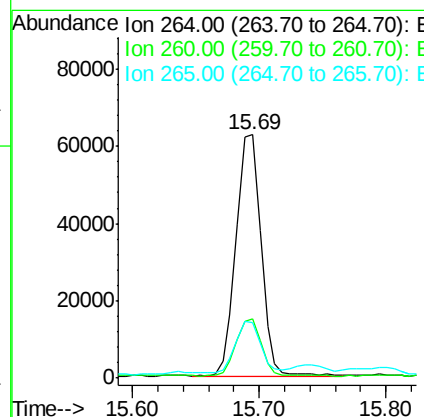
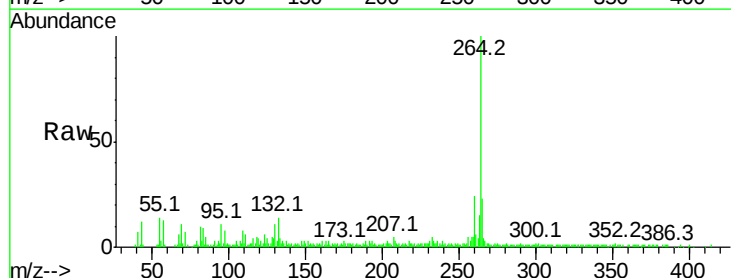
Manual Integrations
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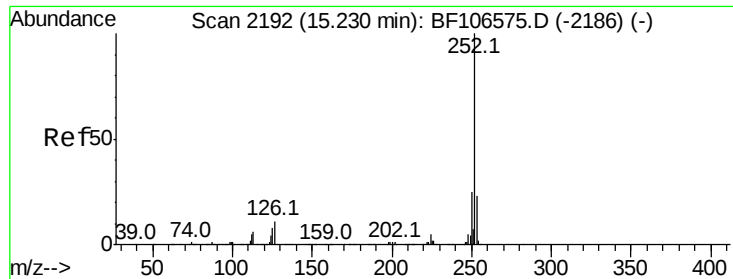
Sohil
 6/27/2018 10:55:56 AM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2271
 Delta R.T. -0.02 min
 Lab File: BF106793.D
 Acq: 26 Jun 2018 00:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.0	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 36.730 ng m

RT: 15.24 min Scan# 2193

Delta R.T. -0.02 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Instrument :

BNA_F

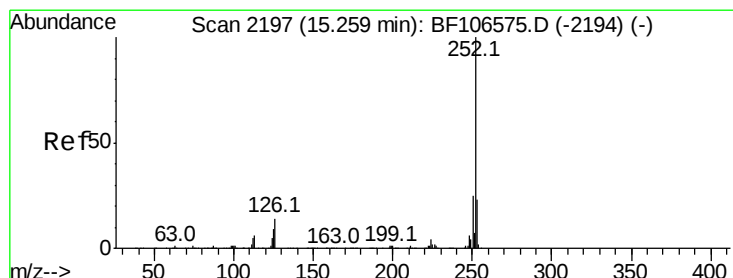
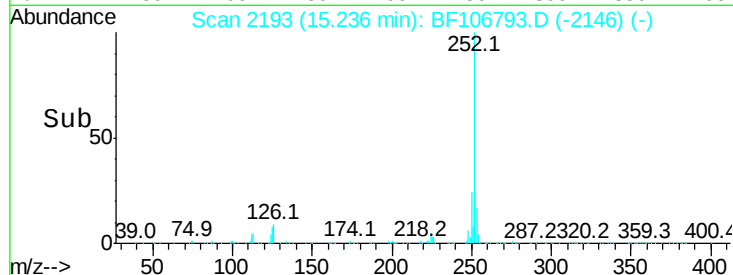
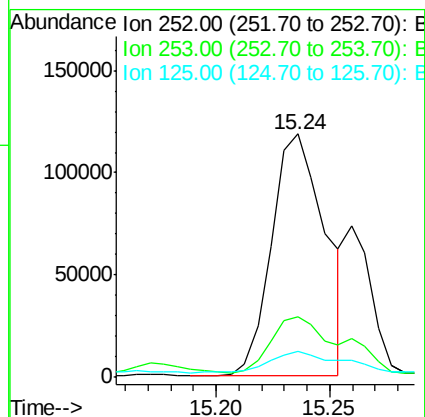
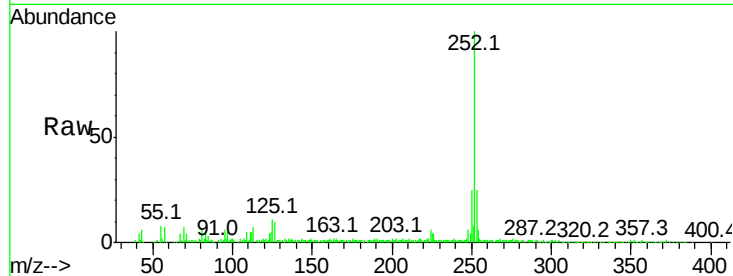
ClientSampleId :

HR-06-062218-A

Tot Ion:	252	Resp:	194567
Ion Ratio	Lower	Upper	
252	100		
253	24.9	17.0	25.6
125	10.6	9.0	13.6

Manual Integrations
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Sohil
6/27/2018 10:55:56 AM



#88

Benzo(k)fluoranthene

Concen: 11.583 ng m

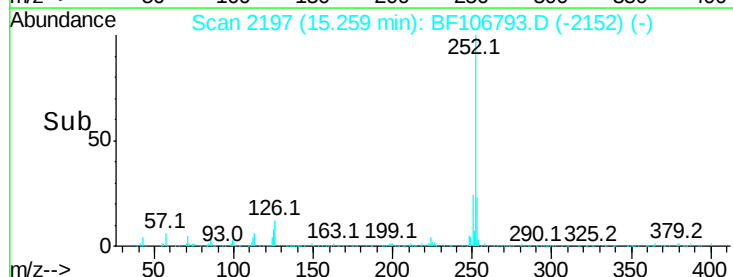
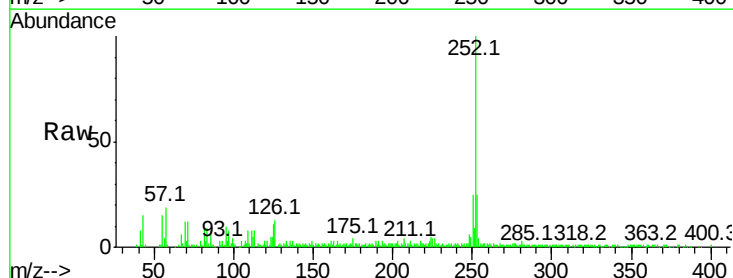
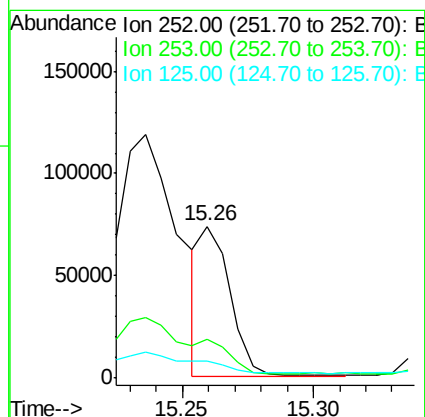
RT: 15.26 min Scan# 2197

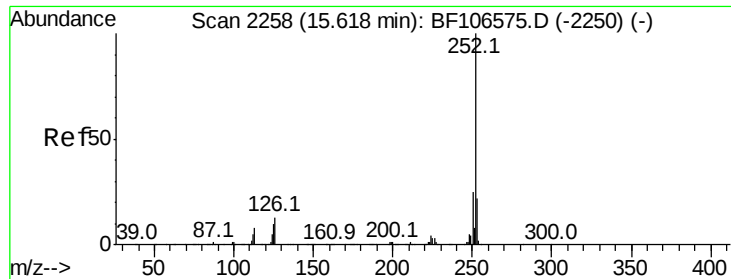
Delta R.T. -0.04 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Tgt Ion:	252	Resp:	58431
Ion Ratio	Lower	Upper	
252	100		
253	25.2	17.9	26.9
125	11.3	10.2	15.2





#89

Benzo(a)pyrene

Concen: 29.241 ng

RT: 15.62 min Scan# 2259

Delta R.T. -0.03 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Instrument :

BNA_F

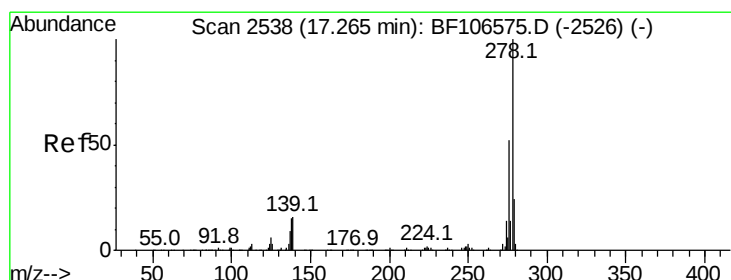
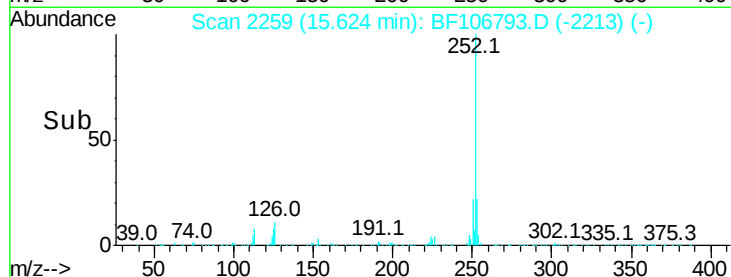
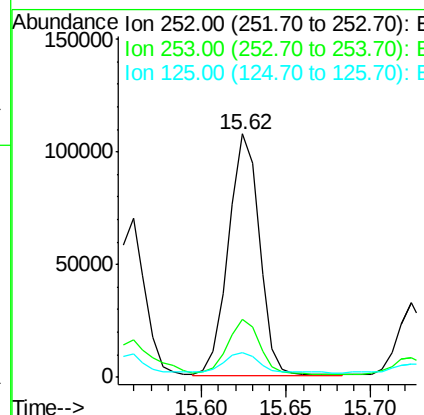
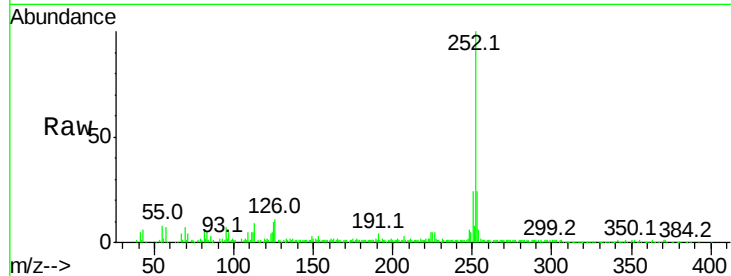
ClientSampleId :

HR-06-062218-A

Tot Ion:	252	Resp:	137700
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.1	25.7
125	10.4	9.8	14.6

Manual Integrations
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Sohil
6/27/2018 10:55:56 AM



#90

Dibenzo(a,h)anthracene

Concen: 4.961 ng

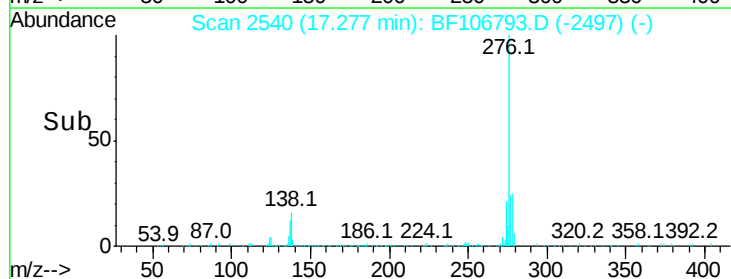
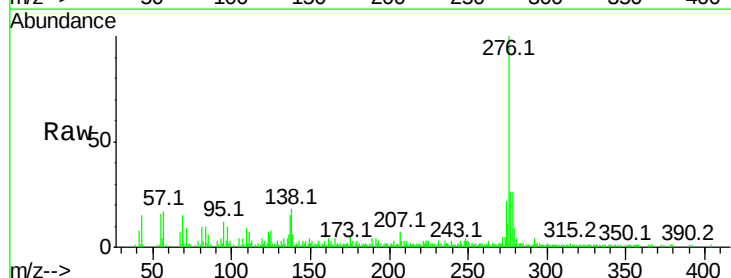
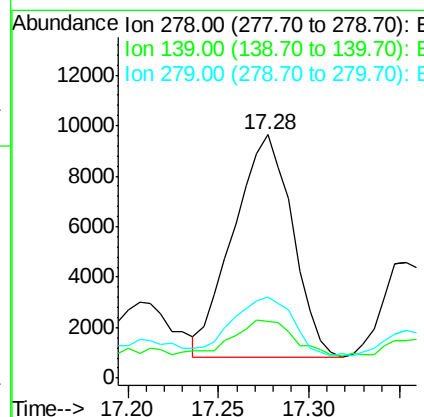
RT: 17.28 min Scan# 2540

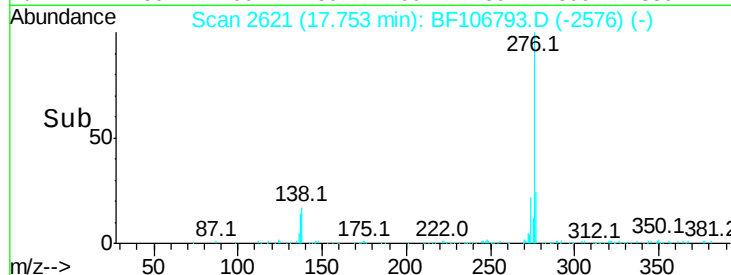
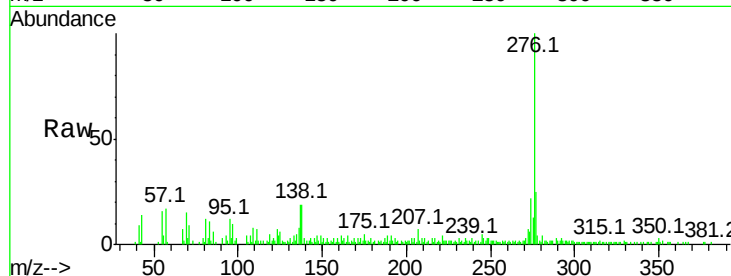
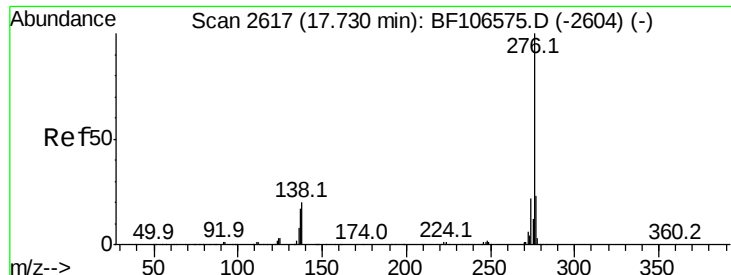
Delta R.T. -0.05 min

Lab File: BF106793.D

Acq: 26 Jun 2018 00:59

Tgt Ion:	278	Resp:	19798
Ion Ratio	Lower	Upper	
278	100		
139	23.3	15.9	23.9
279	33.5	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 19.111 ng
 RT: 17.75 min Scan# 2621
 Delta R.T. -0.04 min
 Lab File: BF106793.D
 Acq: 26 Jun 2018 00:59

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.9	26.9
138	19.5	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 6/27/2018 10:55:56 AM

