

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062218\
 Data File : BF106720.D
 Acq On : 22 Jun 2018 20:36
 Operator : JU/SJ
 Sample : J3246-03 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-062018

Manual Integrations
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Quant Time: Jun 25 05:44:09 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 22 11:34:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	53076	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	202090	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	93180	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	160774	20.00	ng	0.00
75) Chrysene-d12	14.15	240	145336	20.00	ng	0.00
86) Perylene-d12	15.68	264	122421	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	144478	46.09	ng	0.00
7) Phenol-d6	6.60	99	183728	46.94	ng	-0.01
23) Nitrobenzene-d5	7.52	82	112531	30.95	ng	-0.01
41) 2,4,6-Tribromophenol	10.79	330	47049	43.56	ng	-0.01
44) 2-Fluorobiphenyl	9.31	172	226229	31.88	ng	-0.01
78) Terphenyl-d14	13.08	244	223703	37.28	ng	0.00
Target Compounds				Qvalue		
31) Naphthalene	8.26	128	77768	8.231	ng	99
37) 2-Methylnaphthalene	8.95	142	54459	8.696	ng	94
48) Acenaphthylene	9.86	152	23928	2.593	ng	# 96
49) Dimethylphthalate	9.71	163	20920	2.993	ng	# 97
51) Acenaphthene	10.03	154	74929	12.894	ng	97
54) Dibenzofuran	10.20	168	71586	8.996	ng	94
57) Fluorene	10.55	166	113512	17.976	ng	99
70) Phenanthrene	11.52	178	703009	90.659	ng	99
71) Anthracene	11.57	178	193490	24.446	ng	98
72) Carbazole	11.72	167	115215	15.548	ng	97
74) Fluoranthene	12.72	202	771941	90.318	ng	95
77) Pyrene	12.95	202	707043	73.774	ng	98
80) Benzo(a)anthracene	14.14	228	374807	42.314	ng	97
82) Chrysene	14.18	228	327262	40.159	ng	97
85) Indeno(1,2,3-cd)pyrene	17.25	276	136698	19.767	ng	# 87
87) Benzo(b)fluoranthene	15.23	252	366463m	48.189	ng	
88) Benzo(k)fluoranthene	15.26	252	133467m	18.430	ng	
89) Benzo(a)pyrene	15.62	252	254480m	37.643	ng	
90) Dibenzo(a,h)anthracene	17.26	278	33195	5.794	ng	# 91
91) Benzo(a,h,i)perylene	17.74	276	132318	23.628	ng	# 89

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

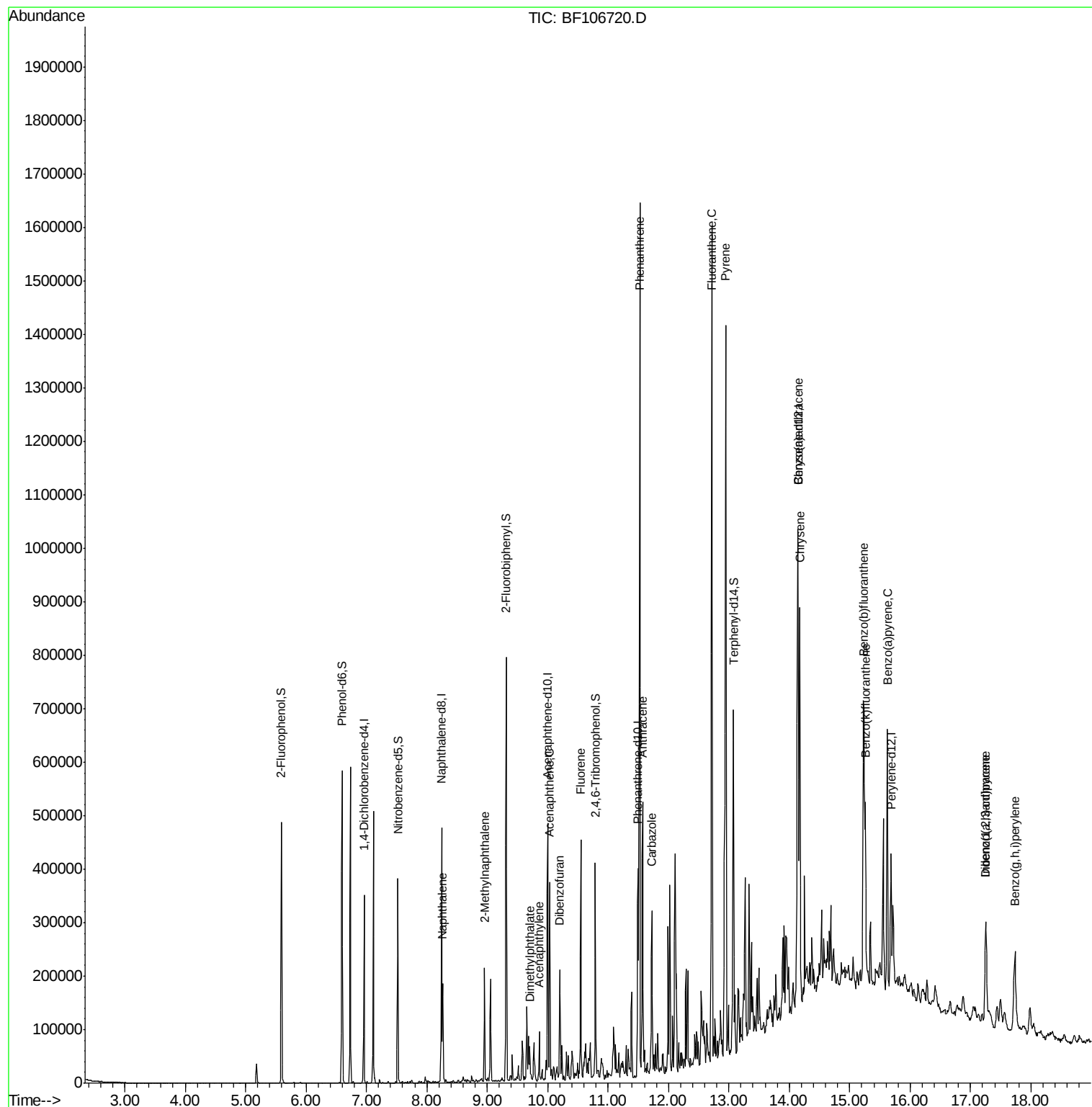
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062218\
Data File : BF106720.D
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#1

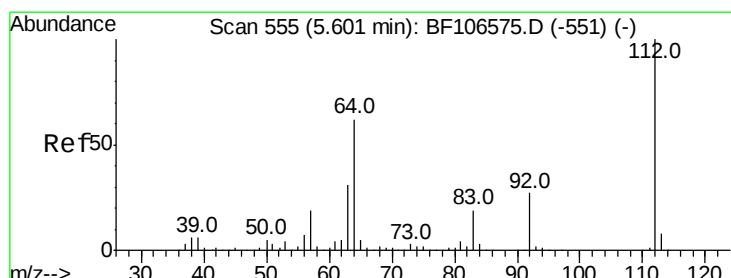
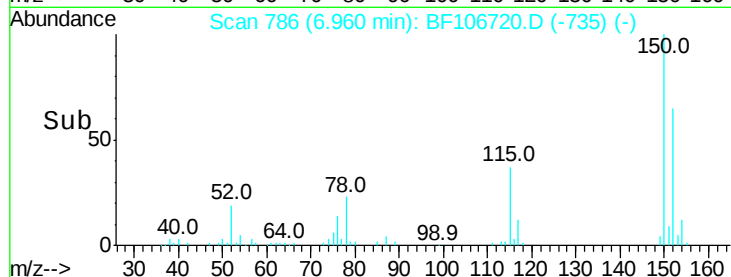
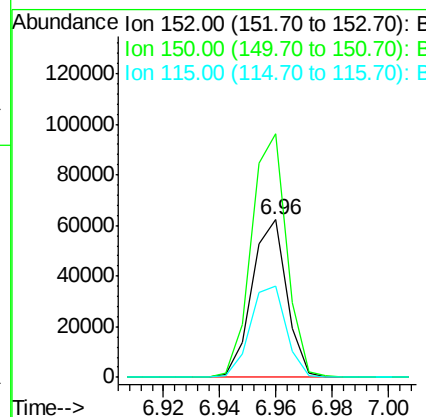
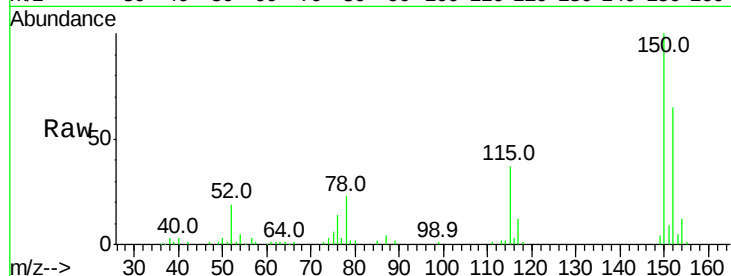
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.00 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Instrument :
BNA_F
ClientSampleId :
OK-01-062018

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.6	186.8
115	57.9	50.1	75.1

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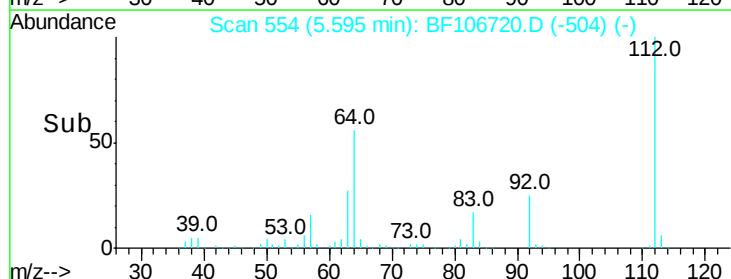
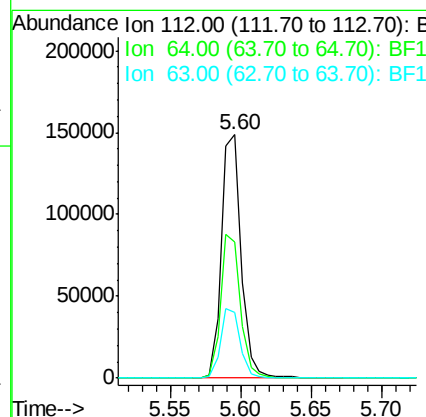
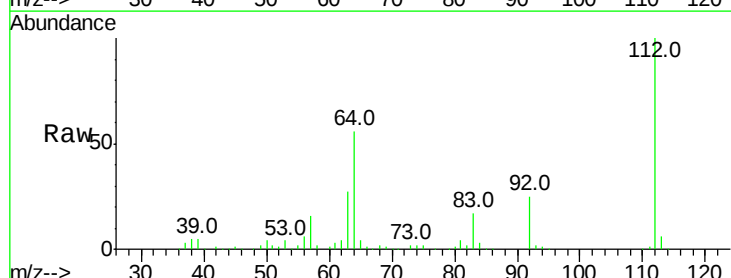
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#5

2-Fluorophenol
Concen: 46.094 ng
RT: 5.60 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	47.9	71.9
63	27.1	23.7	35.5





#7

Phenol-d6

Concen: 46.938 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Instrument :

BNA_F

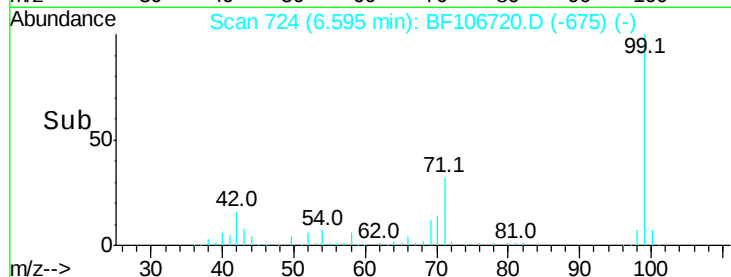
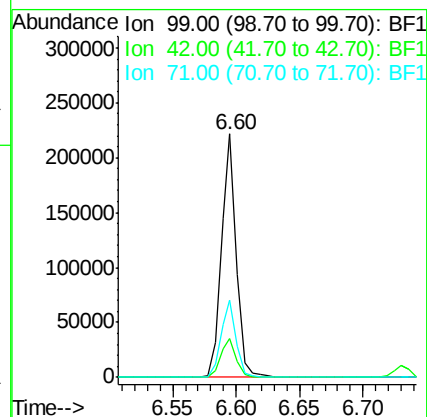
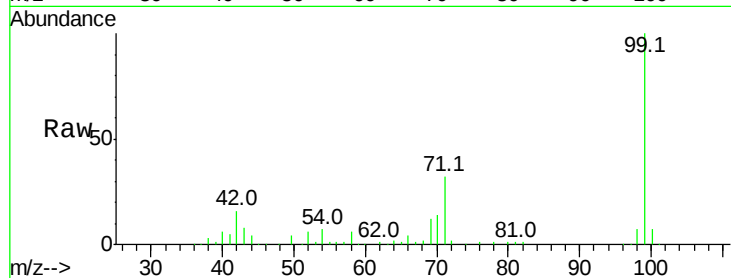
ClientSampleId :

OK-01-062018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		183728		
42	16.0	14.5	21.7		
71	31.9	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

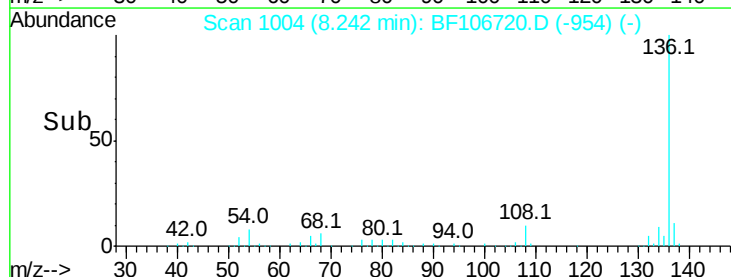
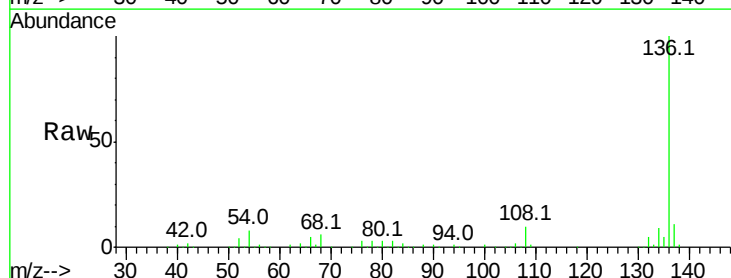
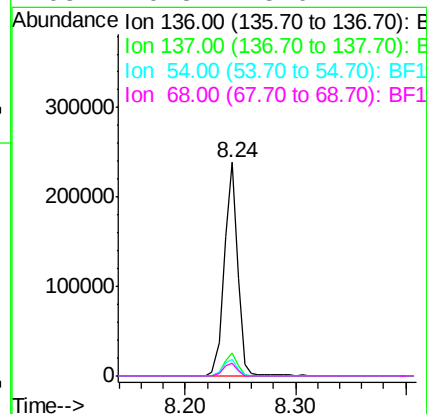
RT: 8.24 min Scan# 1004

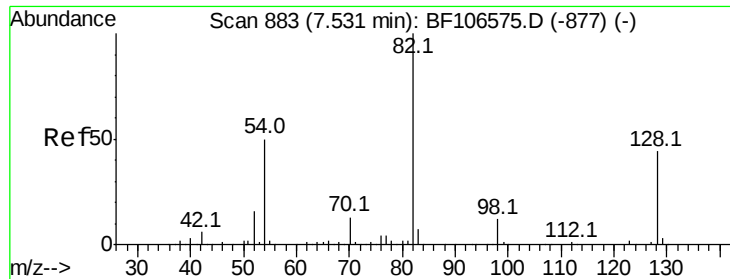
Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		202090		
137	10.9	8.9	13.3		
54	7.9	6.6	9.8		
68	6.3	5.0	7.4		





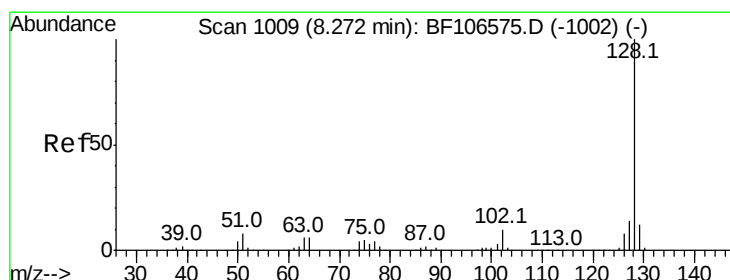
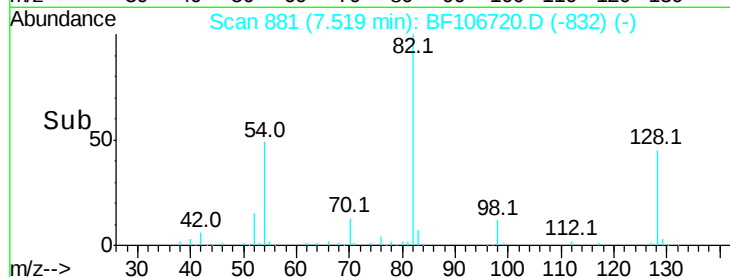
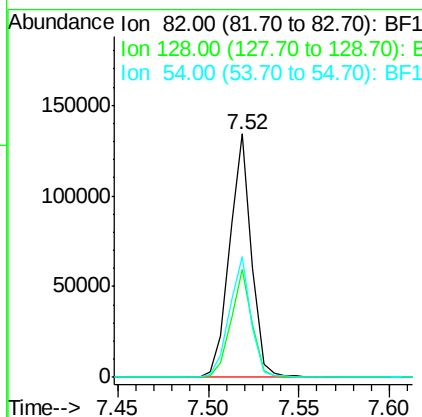
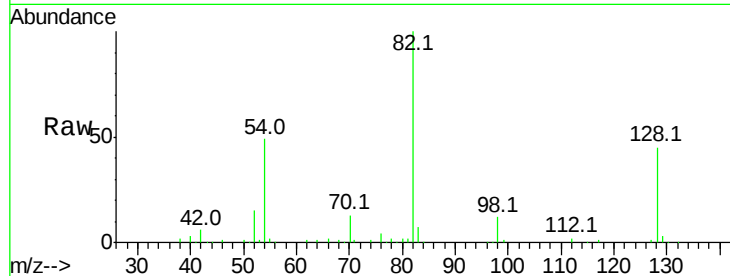
#23
Nitrobenzene-d5
Concen: 30.945 ng
RT: 7.52 min Scan# 881
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Instrument :
BNA_F
ClientSampleId :
OK-01-062018

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.6	36.1	54.1
54	49.4	41.4	62.2

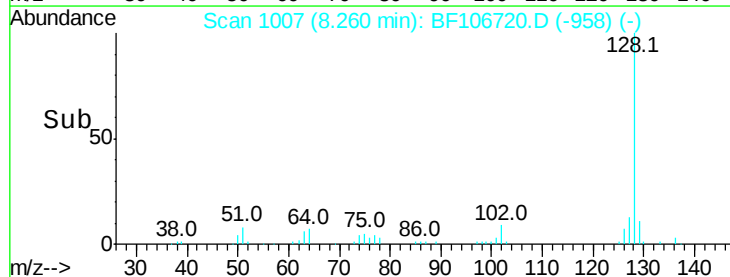
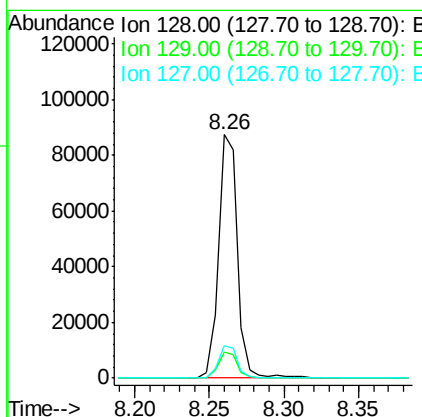
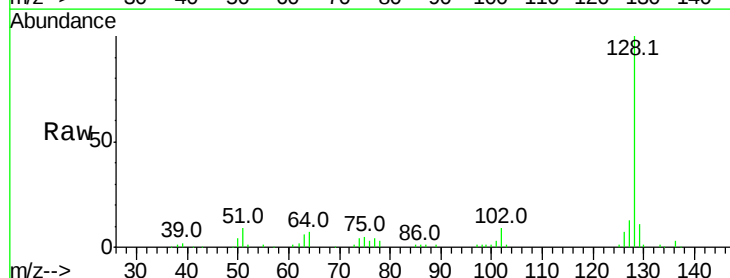
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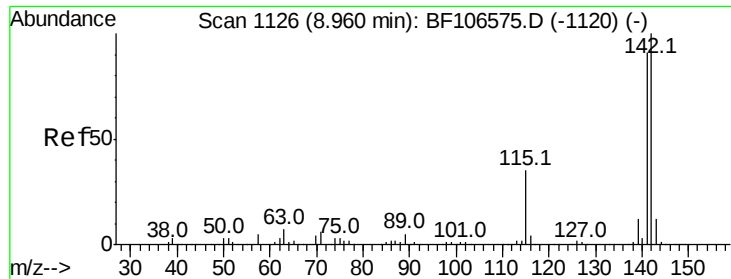
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#31
Naphthalene
Concen: 8.231 ng
RT: 8.26 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.1	10.9	16.3





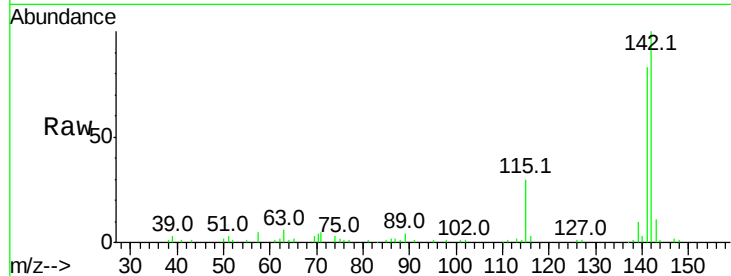
#37
2-Methylnaphthalene
Concen: 8.696 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Instrument :
BNA_F
ClientSampleId :
OK-01-062018

Tot Ion	Ratio	Lower	Upper
142	100		
141	82.7	70.8	106.2
115	29.7	26.1	39.1

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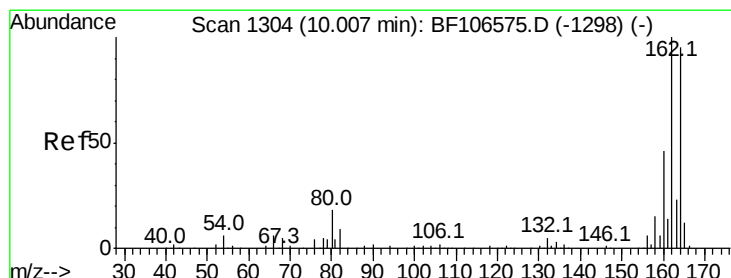
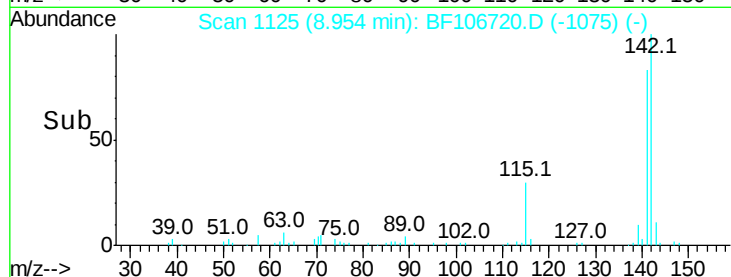
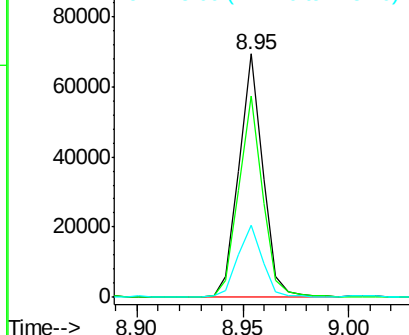


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

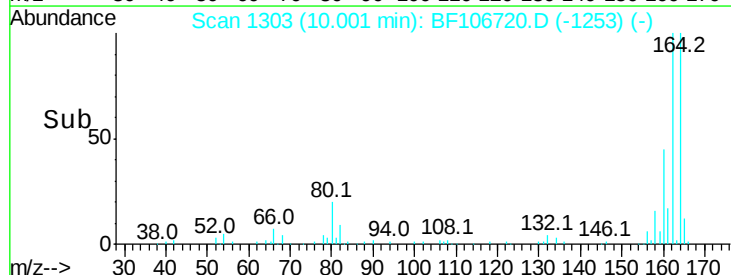
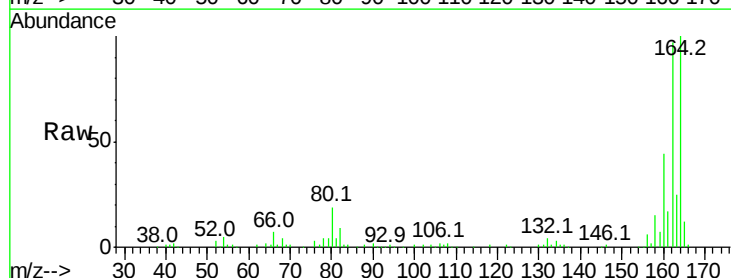
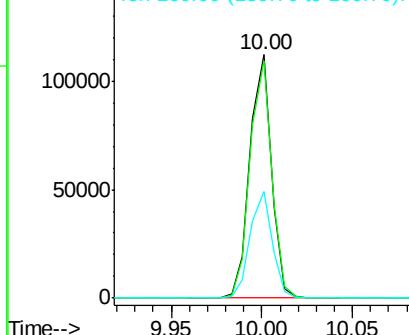
Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.3	86.1	129.1
160	44.0	38.3	57.5

Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





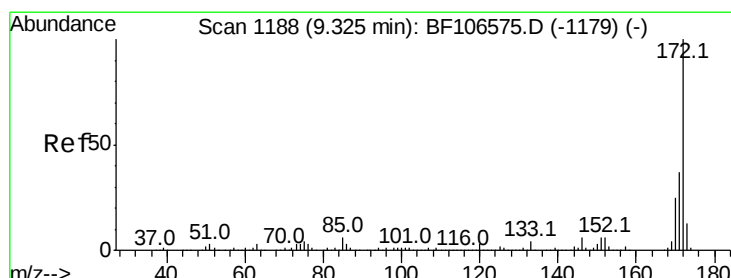
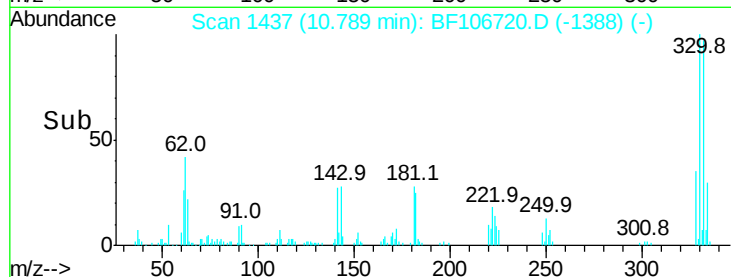
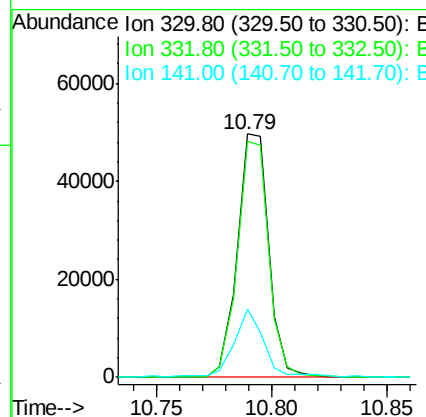
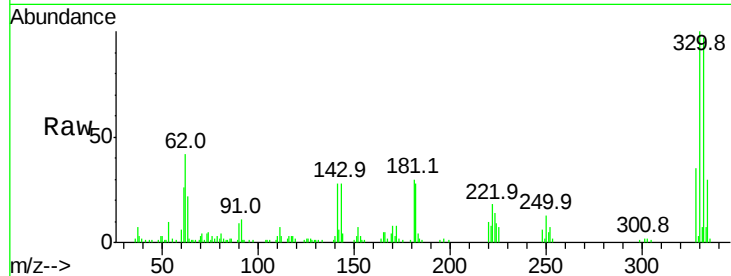
#41
 2,4,6-Tribromophenol
 Concen: 43.565 ng
 RT: 10.79 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF106720.D
 Acq: 22 Jun 2018 20:36

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-062018

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.0	115.6
141	27.3	29.9	44.9#

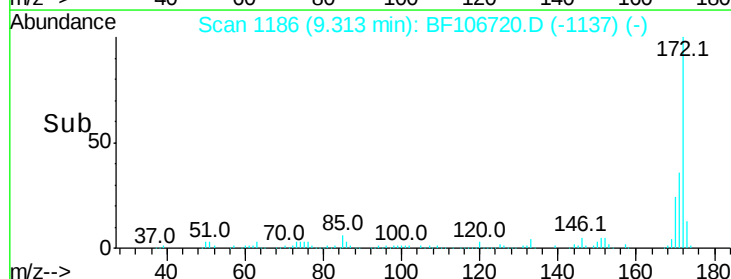
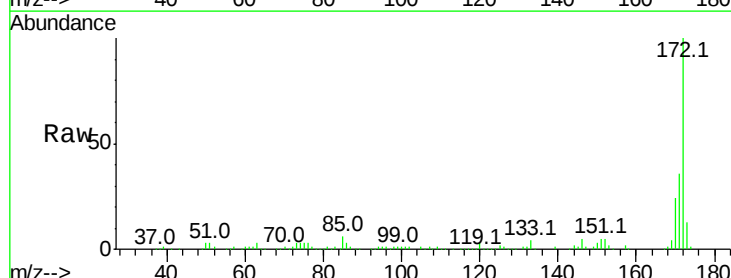
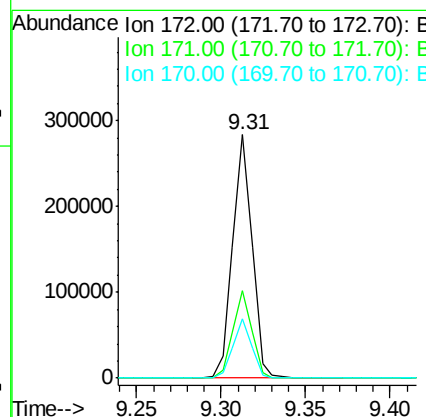
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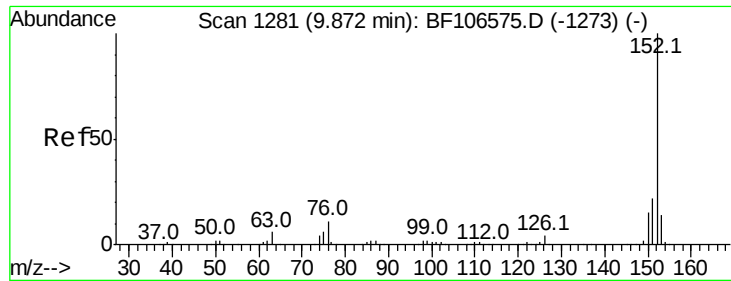
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#44
 2-Fluorobiphenyl
 Concen: 31.875 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF106720.D
 Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.7	44.5
170	24.2	19.6	29.4





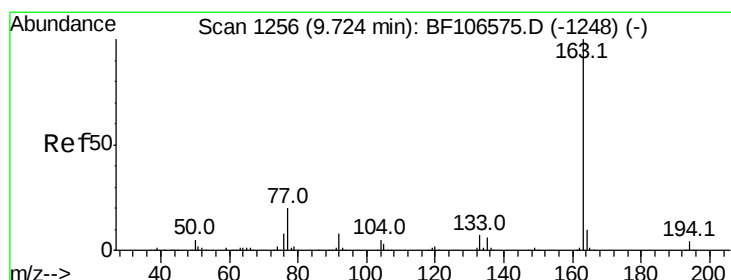
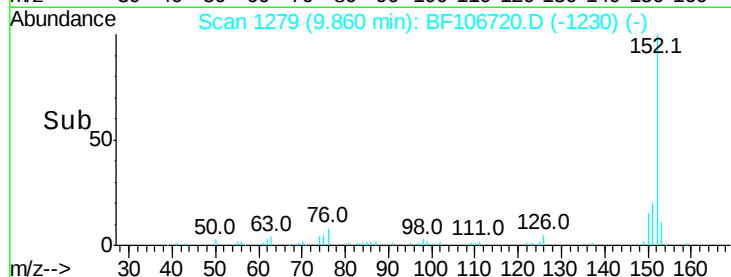
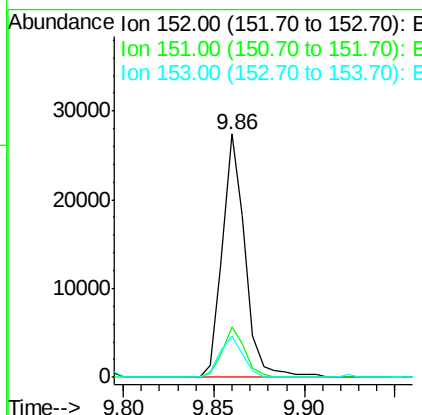
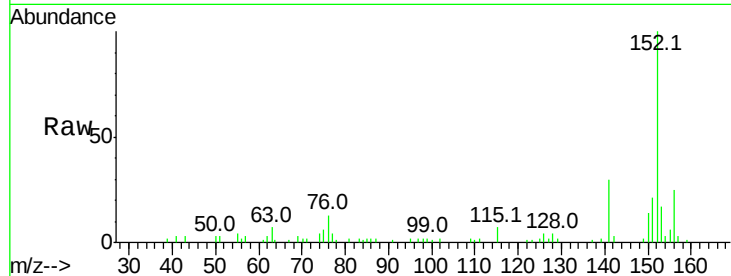
#48
Acenaphthylene
Concen: 2.593 ng
RT: 9.86 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Instrument :
BNA_F
ClientSampleId :
OK-01-062018

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.3	24.5
153	16.9	10.7	16.1#

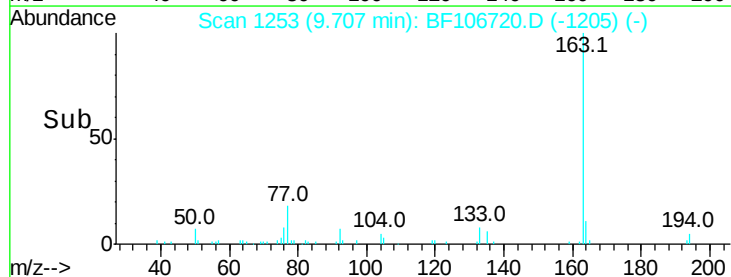
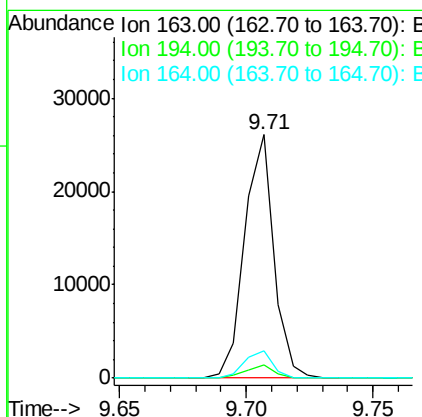
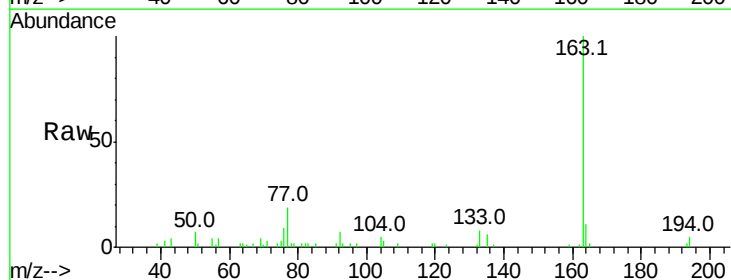
Manual Integrations
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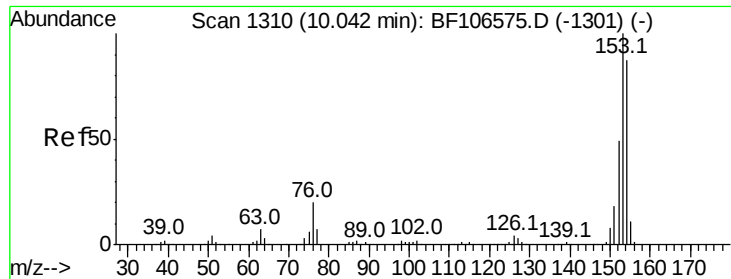
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#49
Dimethylphthalate
Concen: 2.993 ng
RT: 9.71 min Scan# 1253
Delta R.T. -0.02 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.2	2.7	4.1#
164	11.1	8.2	12.2





#51

Acenaphthene

Concen: 12.894 ng

RT: 10.03 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Instrument :

BNA_F

ClientSampleId :

OK-01-062018

Tot Ion:154 Resp: 74929

Ion Ratio Lower Upper

154 100

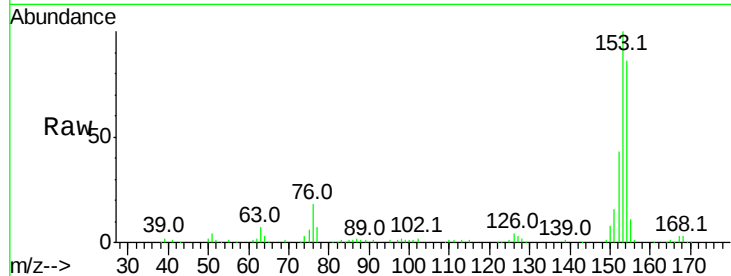
153 116.1 91.2 136.8

152 50.4 43.8 65.8

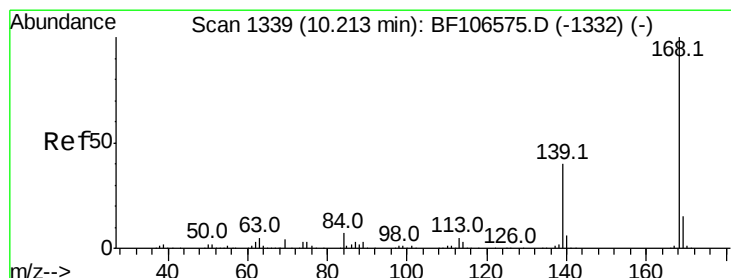
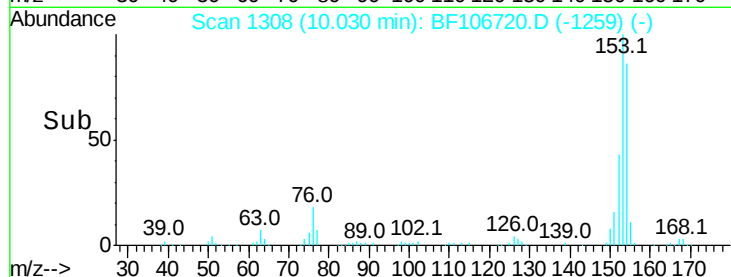
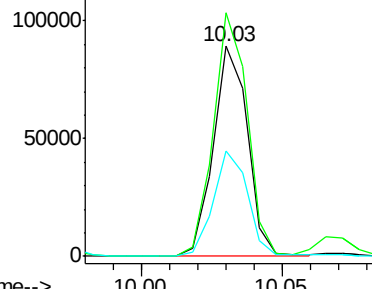
Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 8.996 ng

RT: 10.20 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

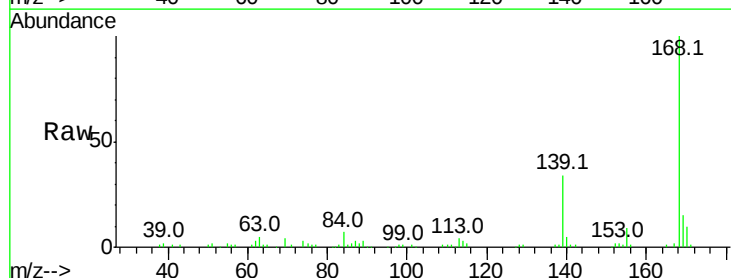
Tgt Ion:168 Resp: 71586

Ion Ratio Lower Upper

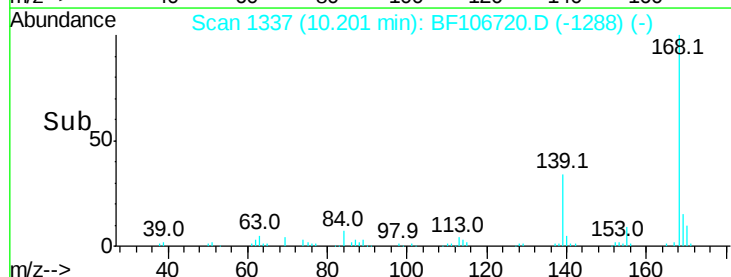
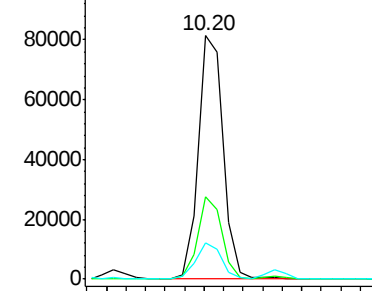
168 100

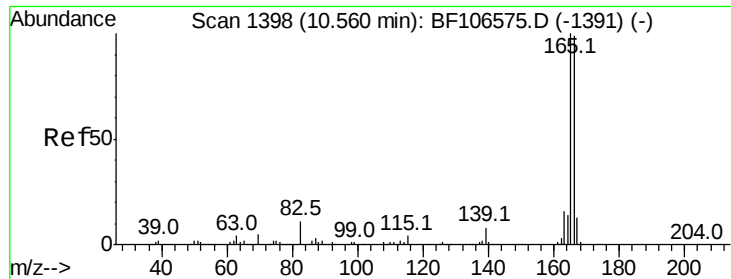
139 33.6 30.1 45.1

169 14.9 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 17.976 ng

RT: 10.55 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Instrument :

BNA_F

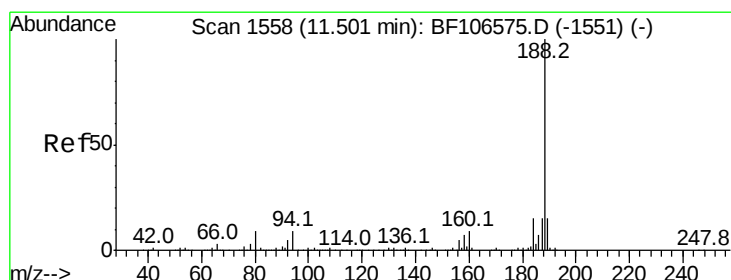
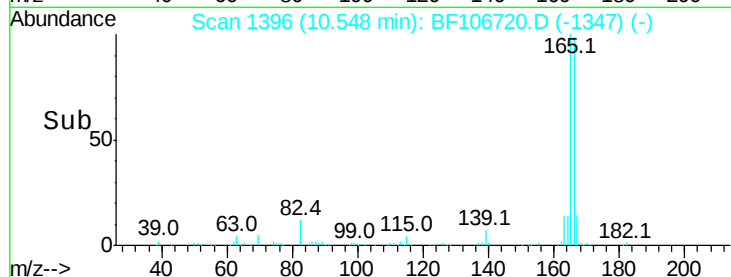
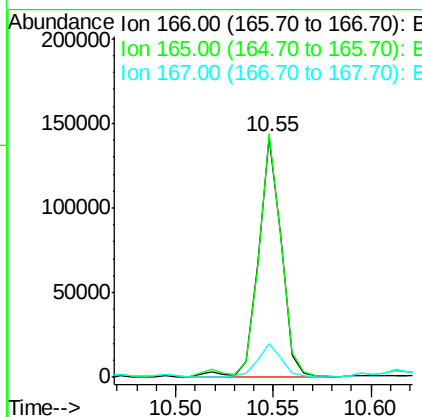
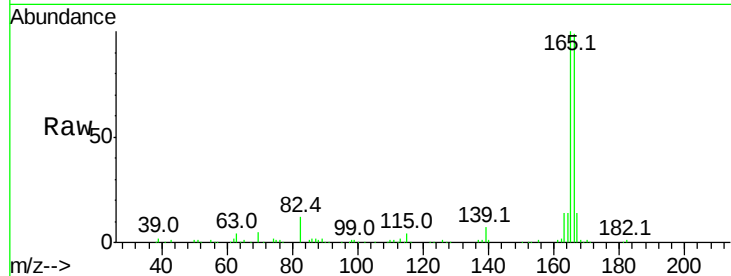
ClientSampleId :

OK-01-062018

Tot Ion:	166	Resp:	113512
Ion Ratio	Lower	Upper	
166	100		
165	101.3	79.8	119.8
167	13.8	10.6	16.0

Manual Integrations
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Sohil
6/25/2018 5:16:20 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

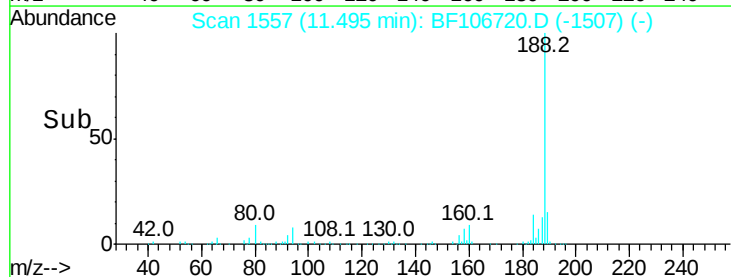
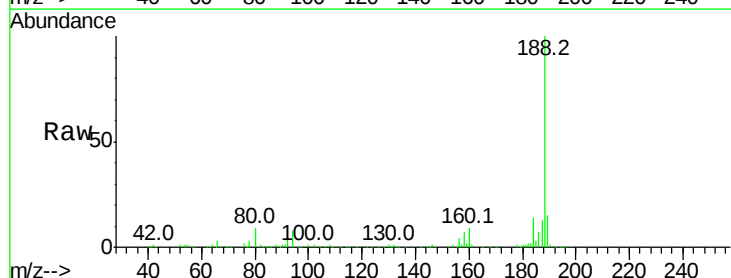
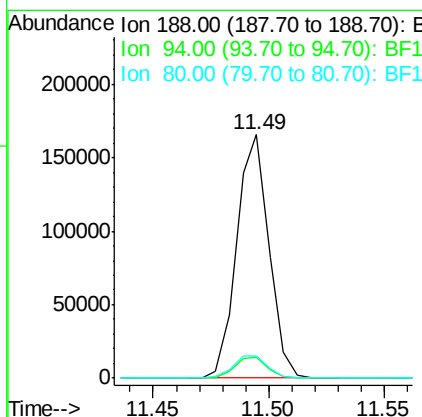
RT: 11.49 min Scan# 1557

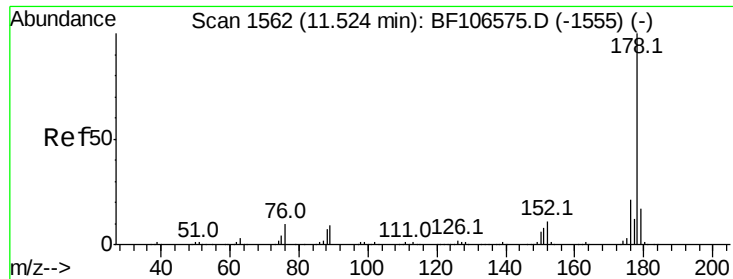
Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Tgt Ion:	188	Resp:	160774
Ion Ratio	Lower	Upper	
188	100		
94	8.4	8.5	12.7#
80	9.1	9.2	13.8#





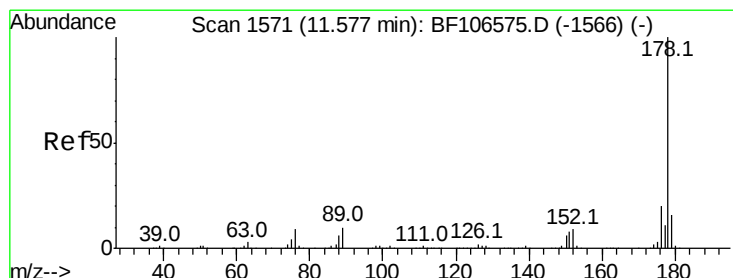
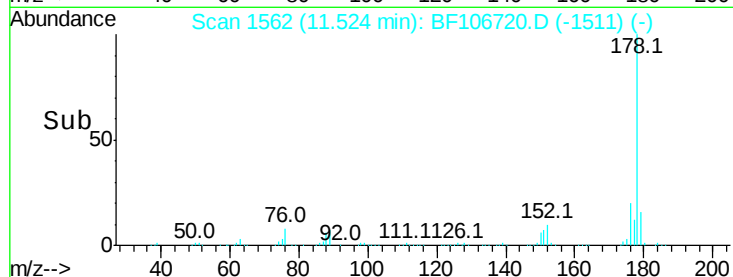
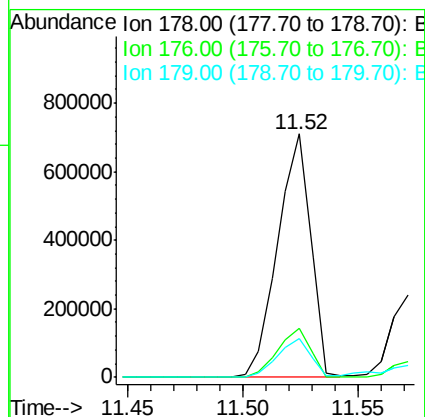
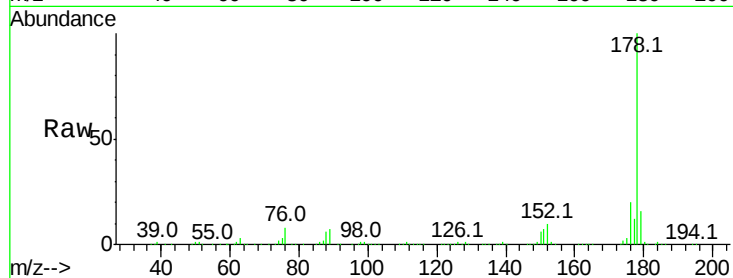
#70
Phenanthrene
Concen: 90.659 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Instrument :
BNA_F
ClientSampleId :
OK-01-062018

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.8
179	15.9	13.0	19.6

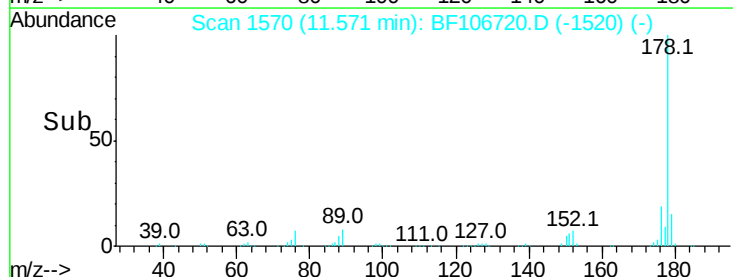
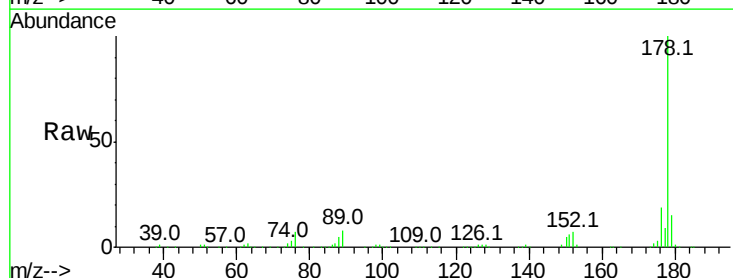
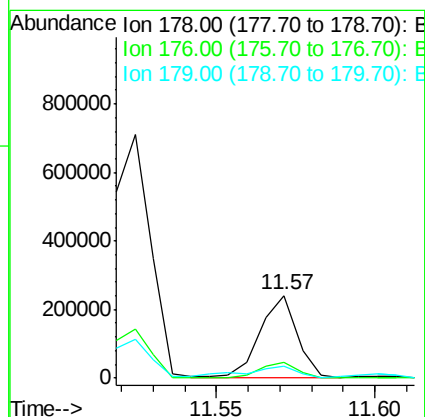
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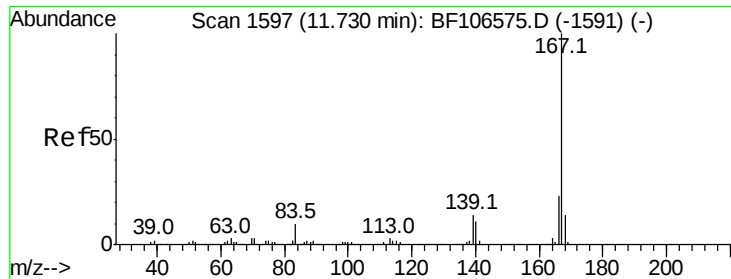
Sohil
6/25/2018 5:16:20 PM



#71
Anthracene
Concen: 24.446 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.0	12.6	19.0





#72

Carbazole

Concen: 15.548 ng

RT: 11.72 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Instrument :

BNA_F

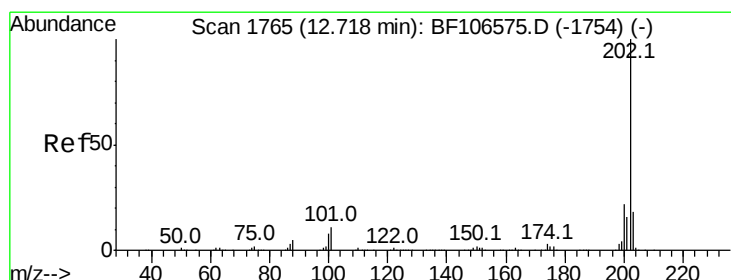
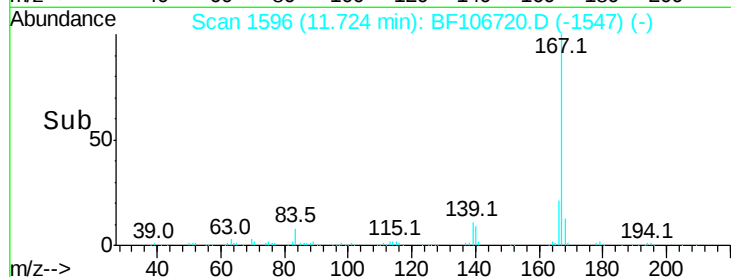
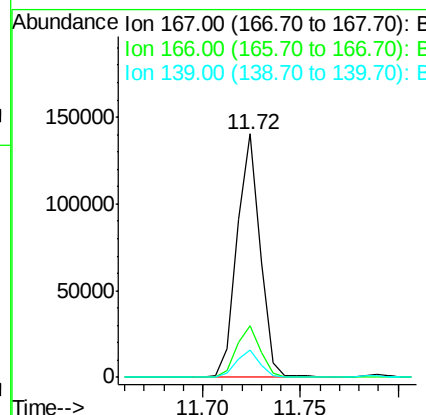
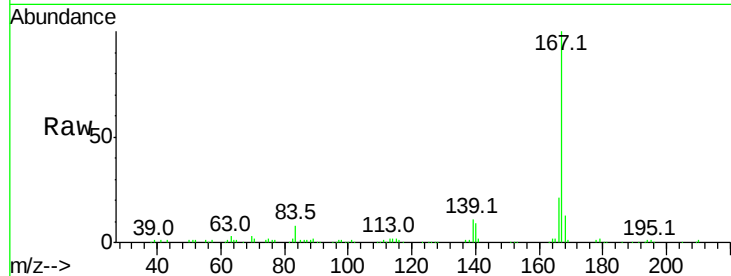
ClientSampleId :

OK-01-062018

Tot Ion:	167	Resp:	115215
Ion Ratio	Lower	Upper	
167	100		
166	21.3	17.6	26.4
139	11.1	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 90.318 ng

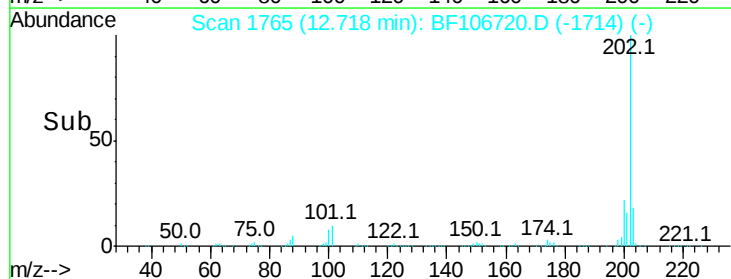
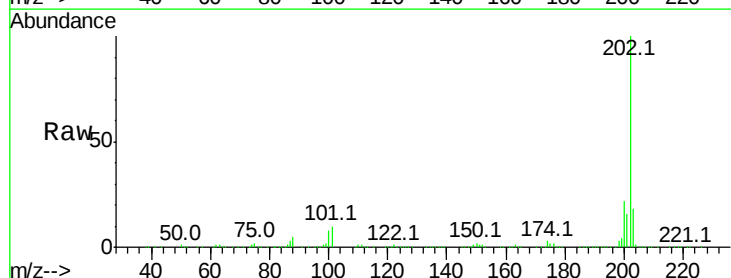
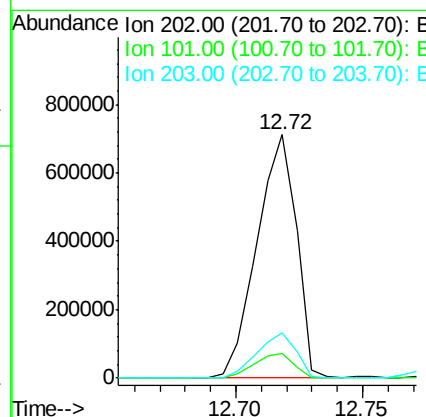
RT: 12.72 min Scan# 1765

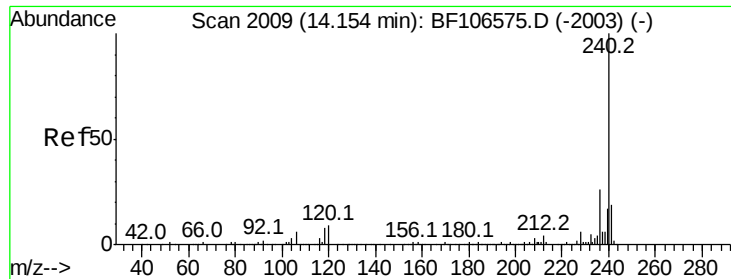
Delta R.T. -0.00 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Tgt Ion:	202	Resp:	771941
Ion Ratio	Lower	Upper	
202	100		
101	10.2	0.0	34.1
203	18.3	0.0	38.1





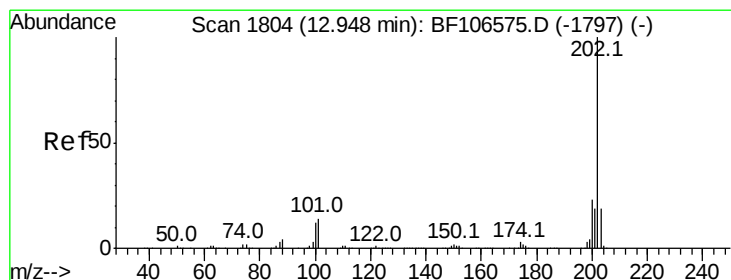
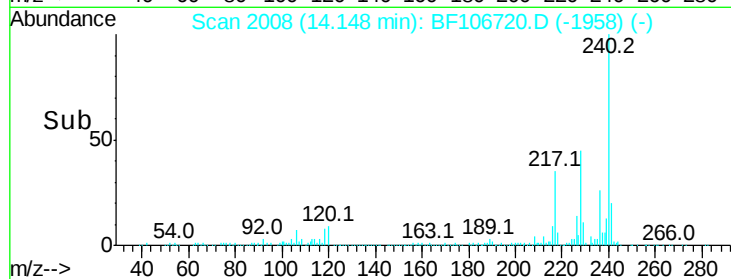
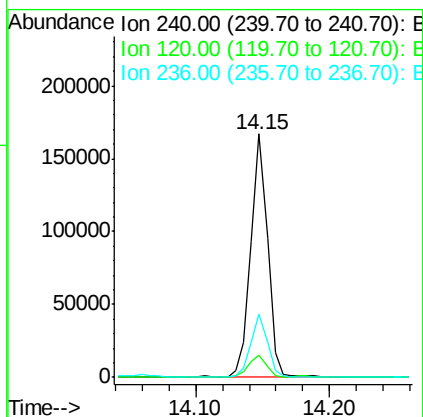
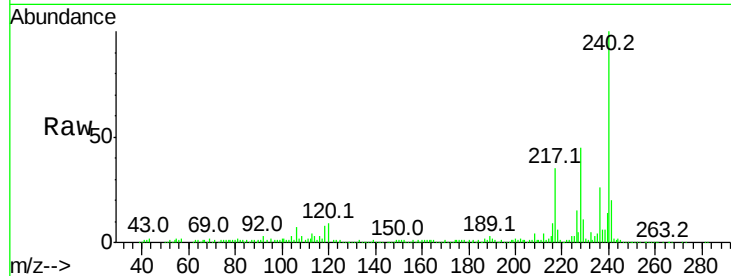
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.15 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Instrument :
BNA_F
ClientSampleId :
OK-01-062018

Tot Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	9.0	9.5	14.3#
236	25.9	20.7	31.1

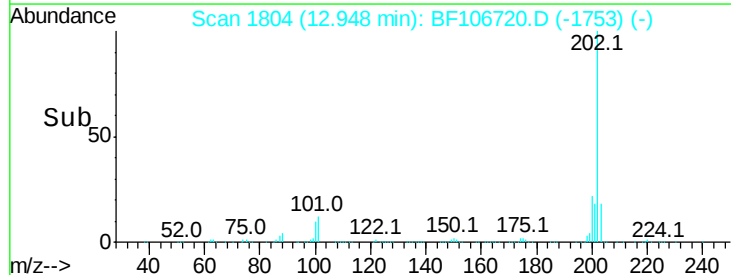
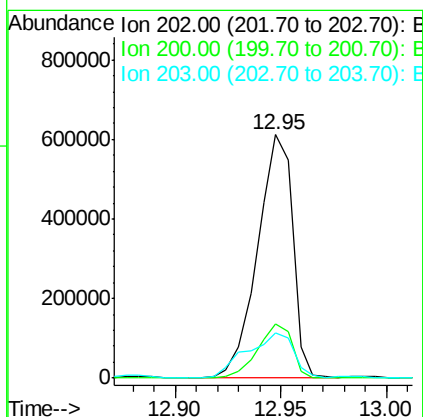
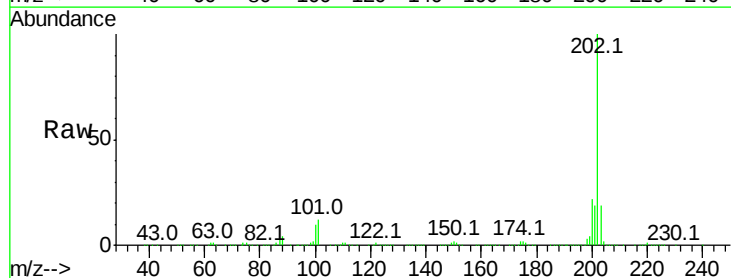
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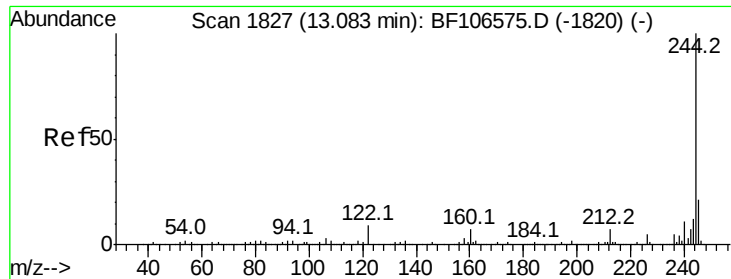
Sohil
6/25/2018 5:16:20 PM



#77
Pyrene
Concen: 73.774 ng
RT: 12.95 min Scan# 1804
Delta R.T. -0.00 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	22.5	17.4	26.2
203	18.8	14.3	21.5





#78

Terphenyl-d14

Concen: 37.284 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Instrument :

BNA_F

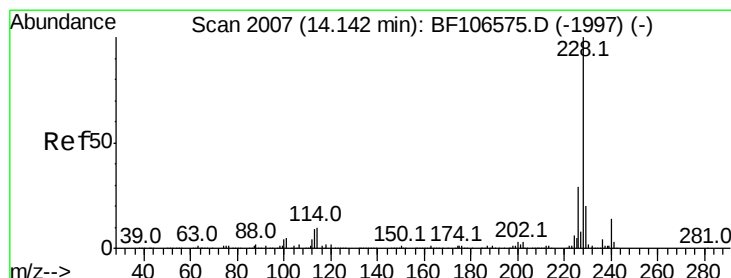
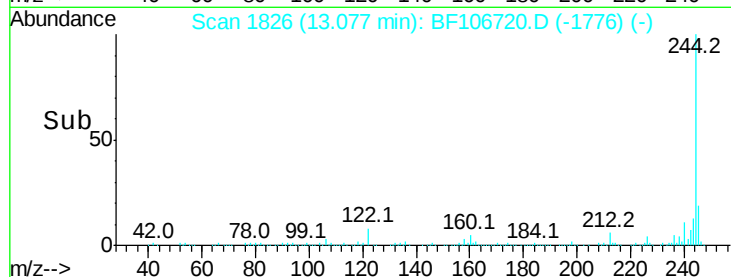
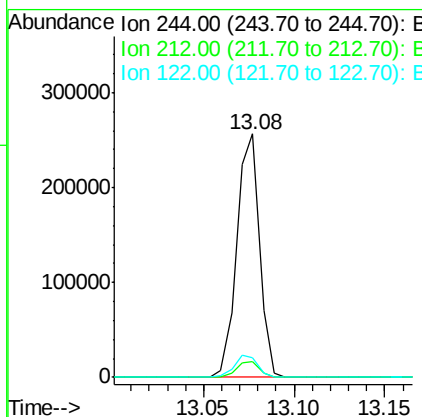
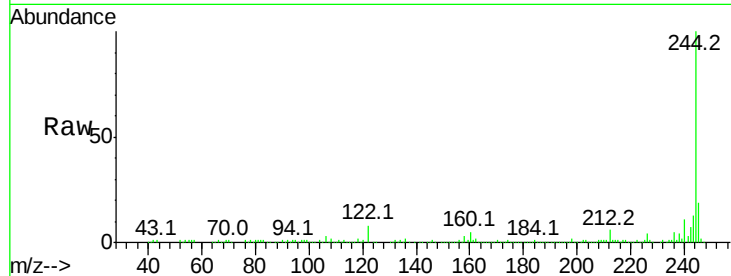
ClientSampleId :

OK-01-062018

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	7.9	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 42.314 ng

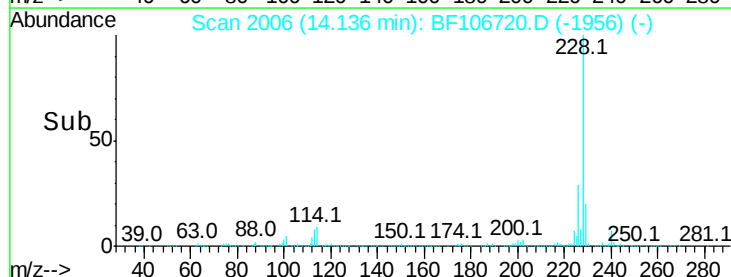
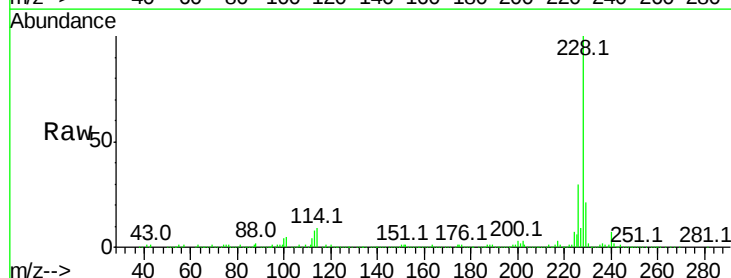
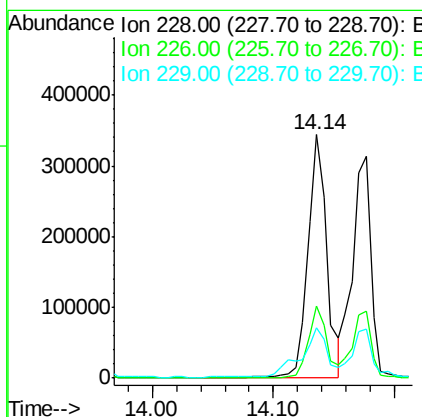
RT: 14.14 min Scan# 2006

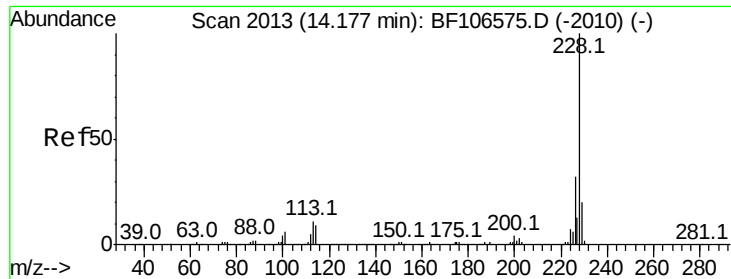
Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.6	33.8
229	20.9	15.8	23.6





#82

Chrysene

Concen: 40.159 ng

RT: 14.18 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Instrument :

BNA_F

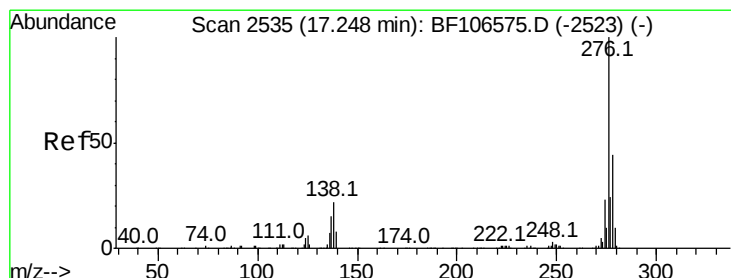
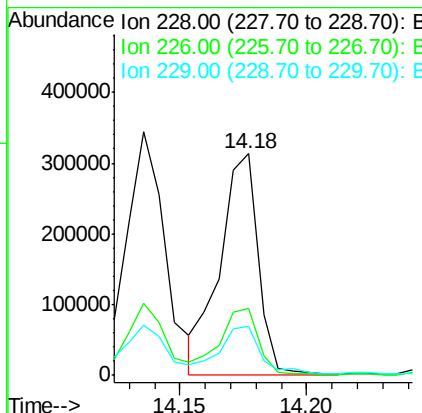
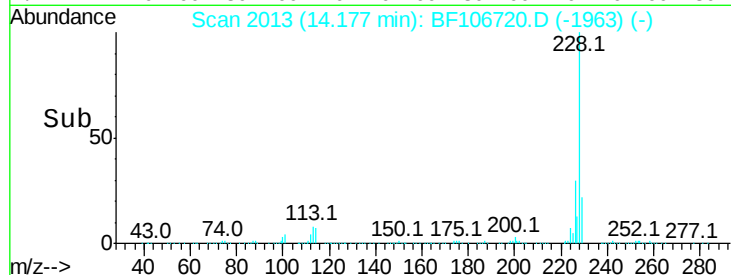
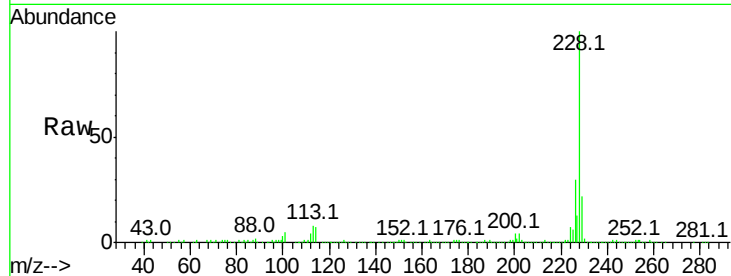
ClientSampleId :

OK-01-062018

Tot Ion:	228	Resp:	327262
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.0	37.6
229	22.3	16.2	24.4

Manual Integrations
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Sohil
6/25/2018 5:16:20 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 19.767 ng

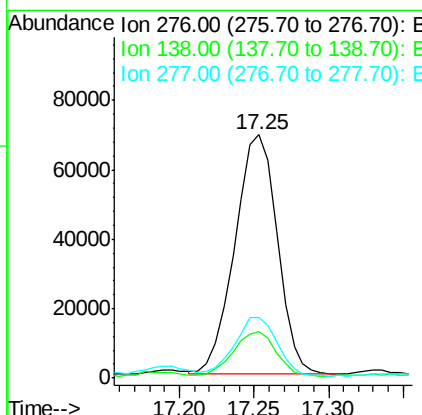
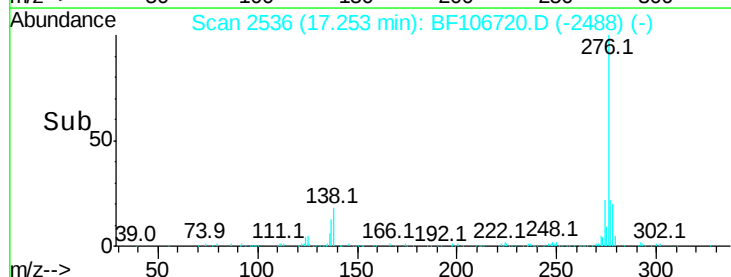
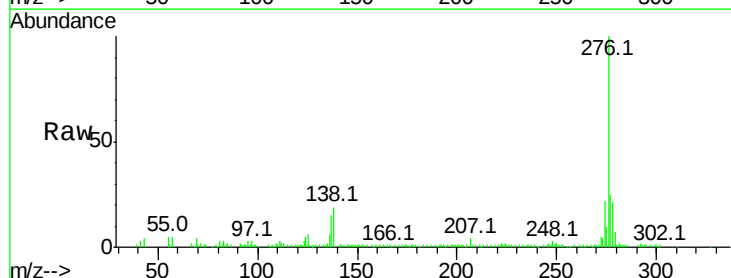
RT: 17.25 min Scan# 2536

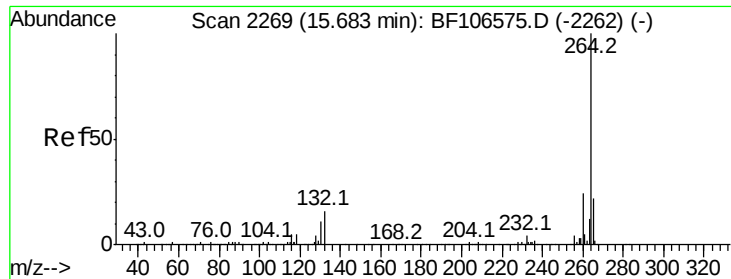
Delta R.T. -0.02 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Tgt Ion:	276	Resp:	136698
Ion Ratio	Lower	Upper	
276	100		
138	18.9	25.0	37.6#
277	24.9	20.1	30.1





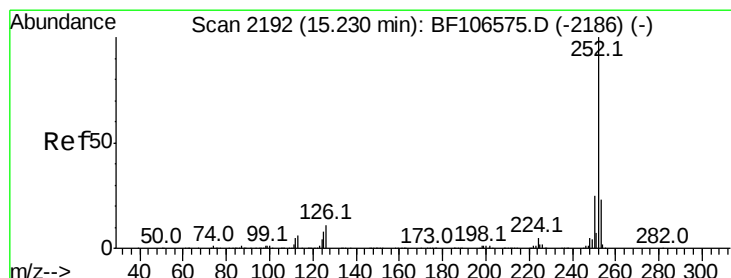
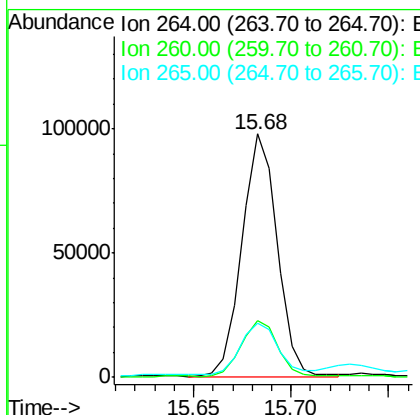
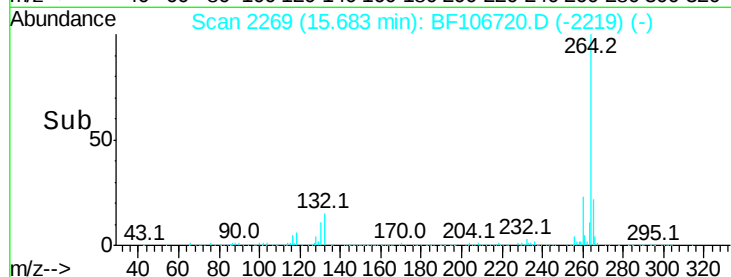
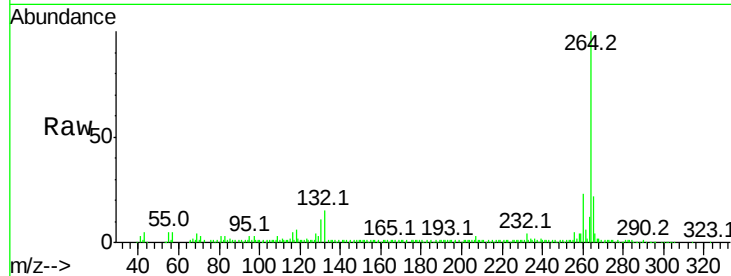
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Instrument :
BNA_F
ClientSampled :
OK-01-062018

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.4	17.5	26.3

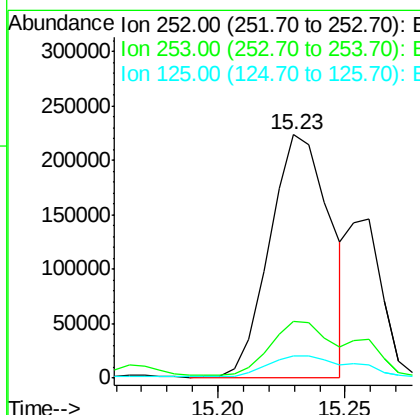
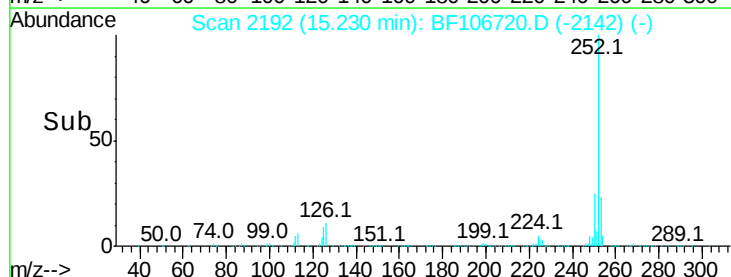
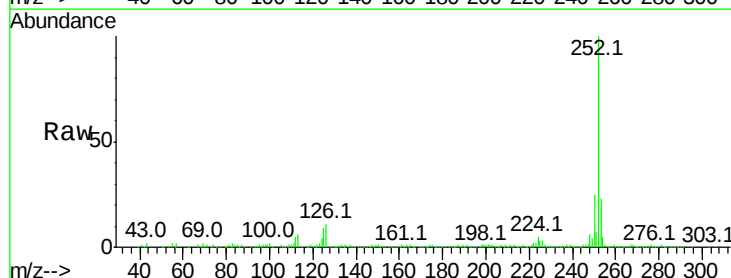
Manual Integrations
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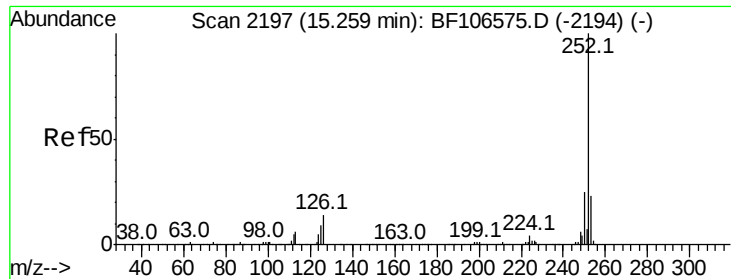
Sohil
6/25/2018 5:16:20 PM



#87
Benzo(b)fluoranthene
Concen: 48.189 ng m
RT: 15.23 min Scan# 2192
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	9.2	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 18.430 ng m

RT: 15.26 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Instrument :

BNA_F

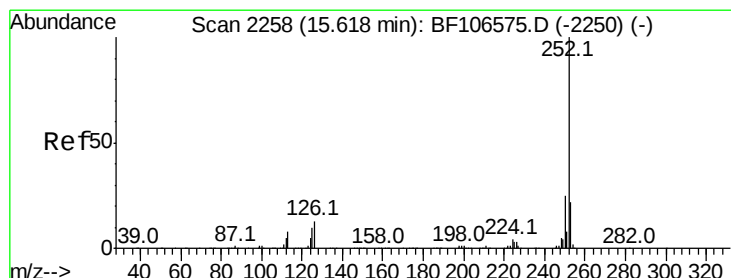
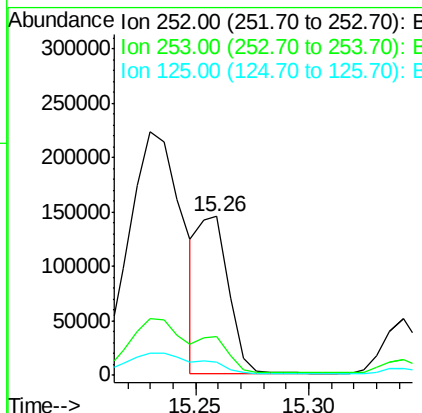
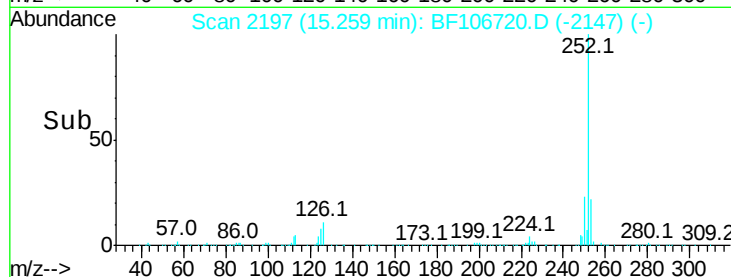
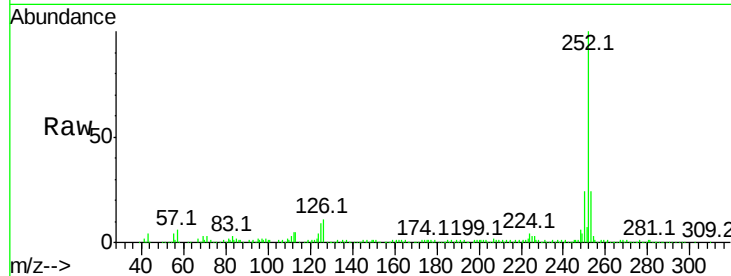
ClientSampleId :

OK-01-062018

Tot Ion:	252	Resp:	133467
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.9	26.9
125	8.6	10.2	15.2#

Manual Integrations
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Sohil
6/25/2018 5:16:20 PM



#89

Benzo(a)pyrene

Concen: 37.643 ng m

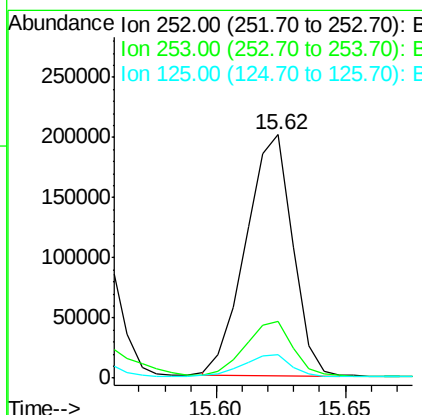
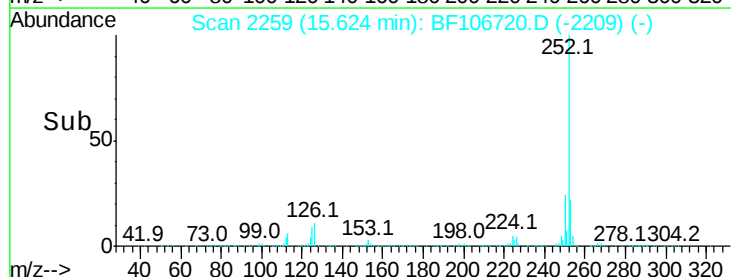
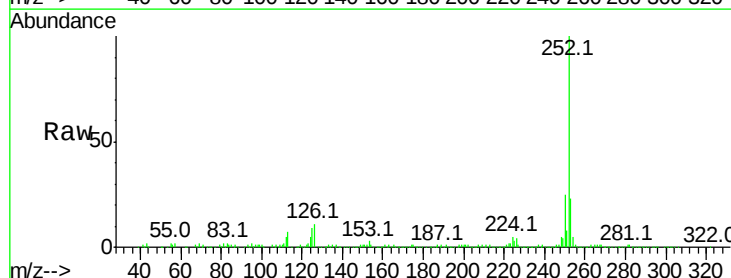
RT: 15.62 min Scan# 2259

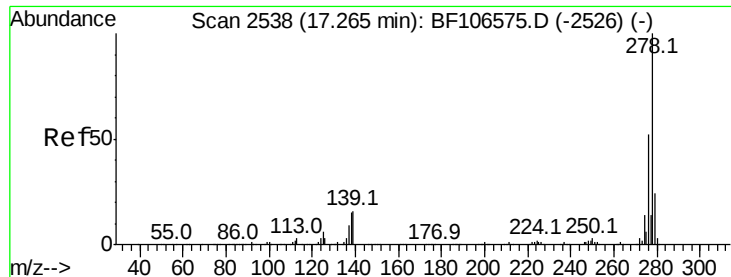
Delta R.T. -0.01 min

Lab File: BF106720.D

Acq: 22 Jun 2018 20:36

Tgt Ion:	252	Resp:	254480
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.1	25.7
125	9.4	9.8	14.6#





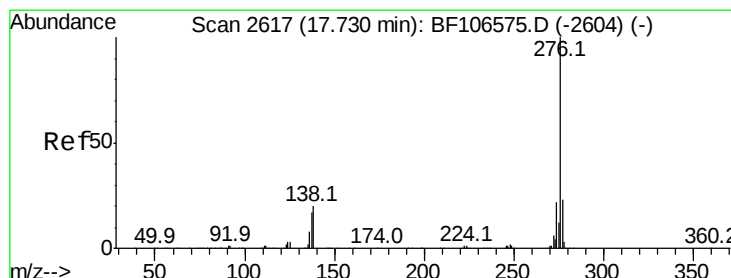
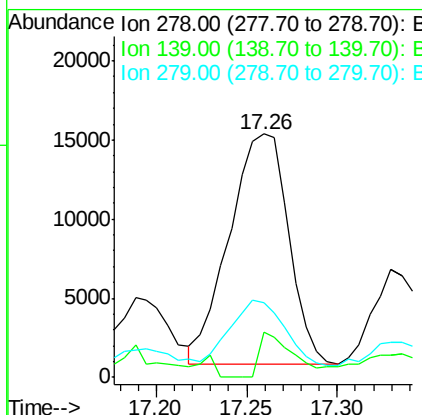
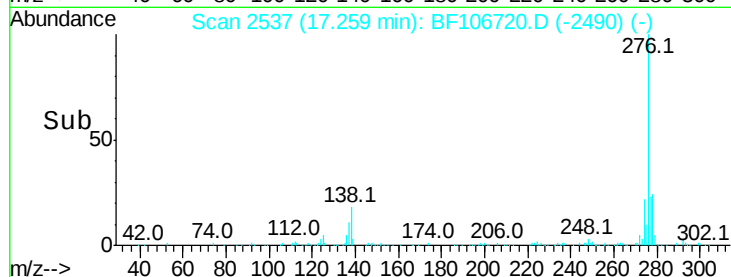
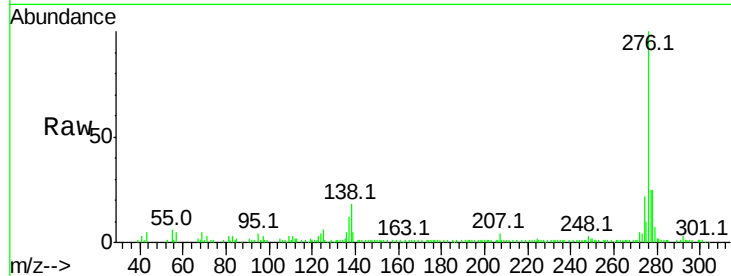
#90
Dibenzo(a,h)anthracene
Concen: 5.794 ng
RT: 17.26 min Scan# 2537
Delta R.T. -0.02 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Instrument :
BNA_F
ClientSampleId :
OK-01-062018

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.8	15.9	23.9
279	30.4	19.0	28.4

Manual Integrations
APPROVED

Sohil
6/25/2018 5:16:20 PM



#91
Benzo(g,h,i)perylene
Concen: 23.628 ng
RT: 17.74 min Scan# 2618
Delta R.T. -0.01 min
Lab File: BF106720.D
Acq: 22 Jun 2018 20:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.9	26.9
138	18.8	21.8	32.8

