

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
 Data File : BF106360.D
 Acq On : 12 Jun 2018 22:17
 Operator : JU/SJ
 Sample : J3322-02 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7

Manual Integrations
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 6/14/2018 3:53:20 PM

Quant Time: Jun 13 17:46:38 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 13 10:51:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	133741	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	455574	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	200268	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	375505	20.00	ng	0.01
75) Chrysene-d12	14.20	240	172353	20.00	ng	0.04
86) Perylene-d12	15.74	264	288111	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	88739	11.23	ng	0.02
7) Phenol-d6	6.66	99	106546	10.67	ng	0.04
23) Nitrobenzene-d5	7.53	82	57082	7.37	ng	0.00
41) 2,4,6-Tribromophenol	10.82	330	19021	9.87	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	90767	7.73	ng	0.00
78) Terphenyl-d14	13.10	244	123681	17.82	ng	0.01
Target Compounds						
10) Phenol	6.67	94	41189	3.779	ng	88
20) 3+4-Methylphenols	7.42	107	26485	2.732	ng	92
31) Naphthalene	8.28	128	2203002	106.971	ng	# 91
37) 2-Methylnaphthalene	8.97	142	840896	59.949	ng	96
45) 1,1'-Biphenyl	9.43	154	333201	21.481	ng	98
48) Acenaphthylene	9.89	152	2296944	120.889	ng	# 90
51) Acenaphthene	10.05	154	833583	67.933	ng	98
54) Dibenzofuran	10.22	168	1554374	94.071	ng	# 90
57) Fluorene	10.58	166	2131040	162.781	ng	99
70) Phenanthrene	11.55	178	5784272	314.535	ng	# 88
71) Anthracene	11.61	178	2723894	147.850	ng	# 86
72) Carbazole	11.75	167	1063305	62.516	ng	97
74) Fluoranthene	12.75	202	7433795m	379.045	ng	
77) Pyrene	13.01	202	5825824	539.910	ng	# 86
80) Benzo(a)anthracene	14.19	228	5043776	491.758	ng	# 76
82) Chrysene	14.23	228	3100684	331.117	ng	# 82
85) Indeno(1,2,3-cd)pyrene	17.35	276	2665478	356.656	ng	# 88
87) Benzo(b)fluoranthene	15.29	252	5498941m	315.741	ng	
88) Benzo(k)fluoranthene	15.32	252	1618104m	93.812	ng	
89) Benzo(a)pyrene	15.69	252	4145313	264.623	ng	# 88
90) Dibenzo(a,h)anthracene	17.35	278	775607m	59.389	ng	
91) Benzo(g,h,i)perylene	17.84	276	2338457	184.247	ng	# 91

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

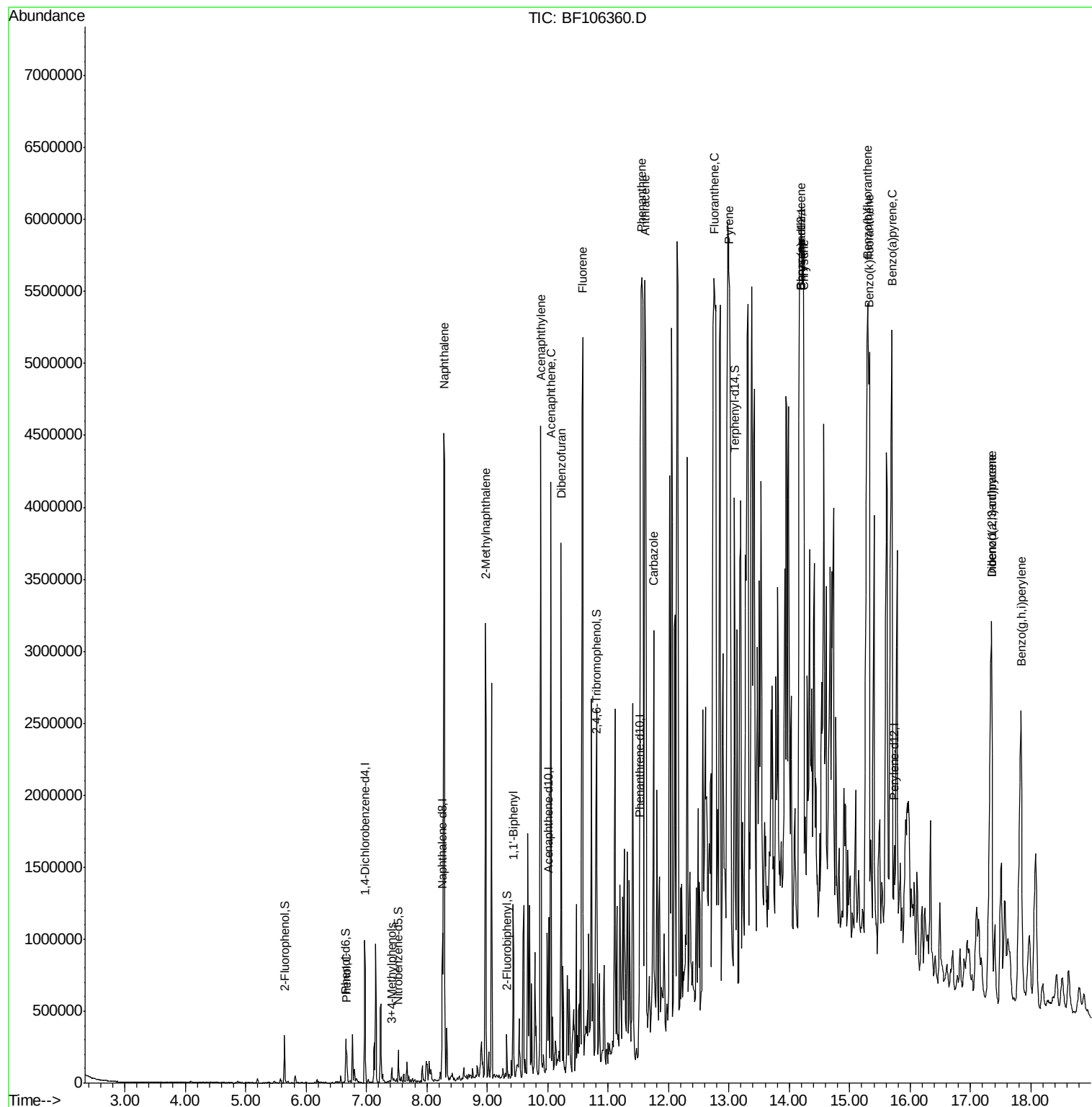
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106360.D
Acq On : 12 Jun 2018 22:17
Operator : JU/SJ
Sample : J3322-02 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

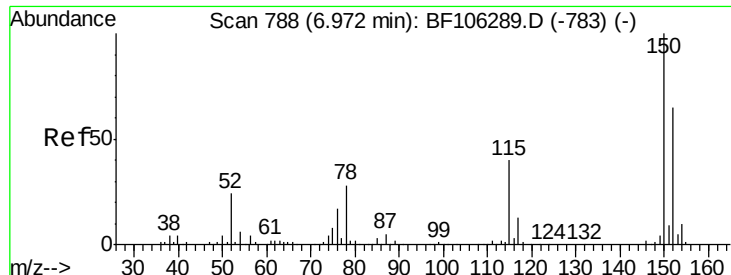
Instrument :
BNA_F
ClientSampled :
SB02-2 BOT_7

Quant Time: Jun 13 17:46:38 2018
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#1

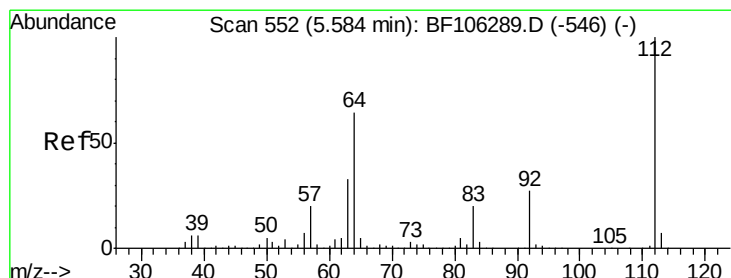
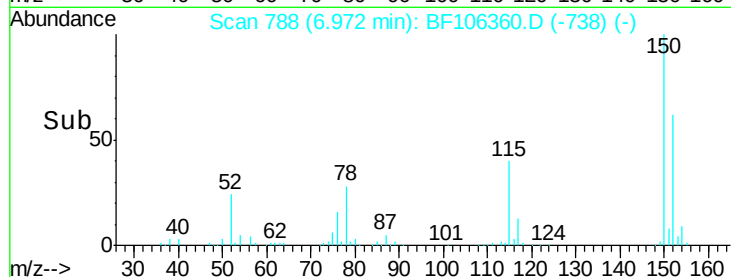
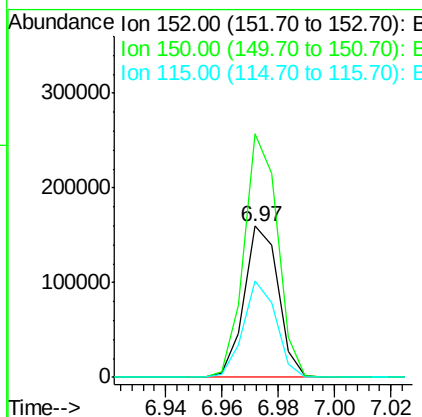
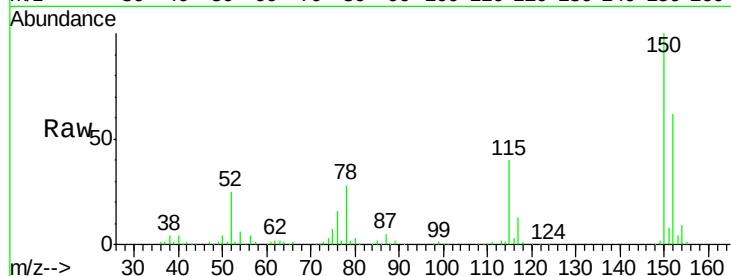
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.3	124.6	186.8
115	64.3	50.1	75.1

Manual Integrations
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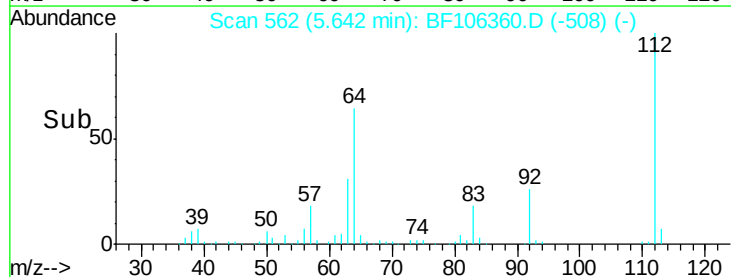
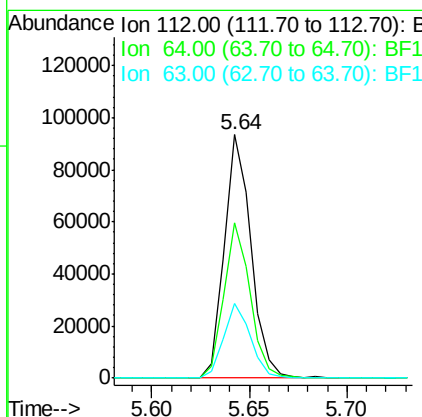
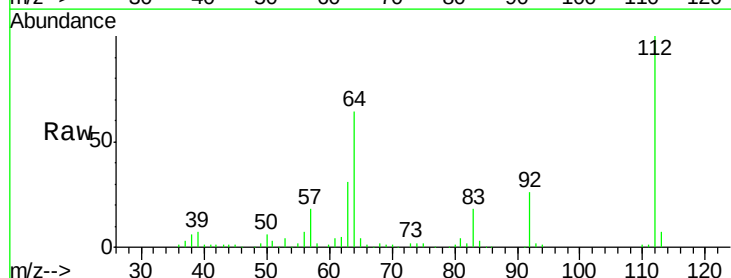
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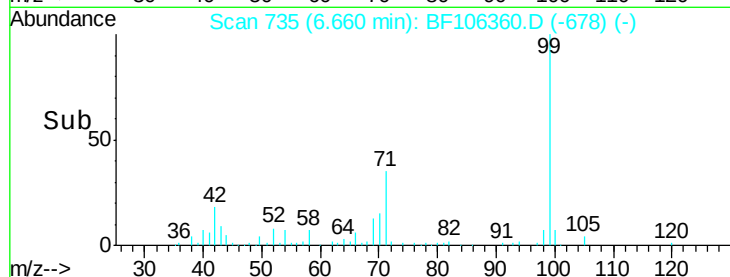
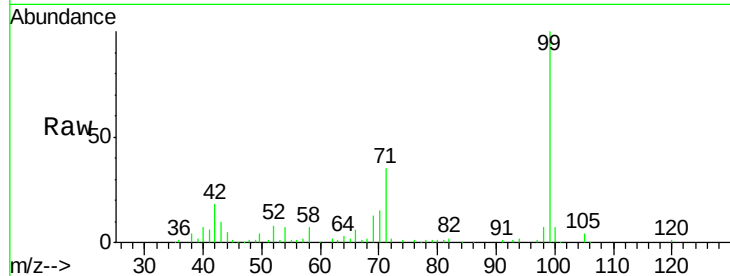
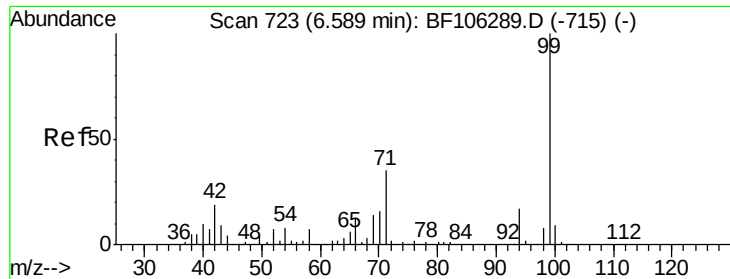


#5

2-Fluorophenol
Concen: 11.230 ng
RT: 5.64 min Scan# 562
Delta R.T. 0.02 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.9	47.9	71.9
63	30.6	23.7	35.5





#7

Phenol-d6

Concen: 10.672 ng

RT: 6.66 min Scan# 735

Delta R.T. 0.04 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Tot Ion:	99	Resp:	106546
Ion Ratio	Lower	Upper	
99	100		
42	17.8	14.5	21.7
71	34.7	25.4	38.0

Instrument :

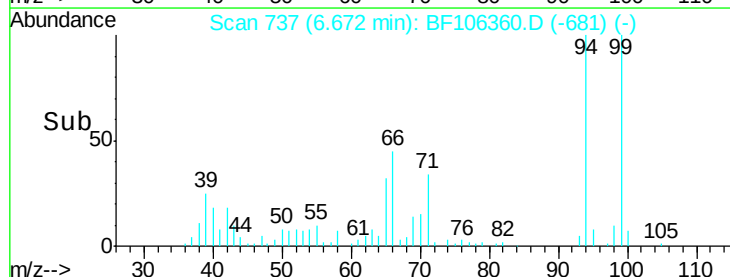
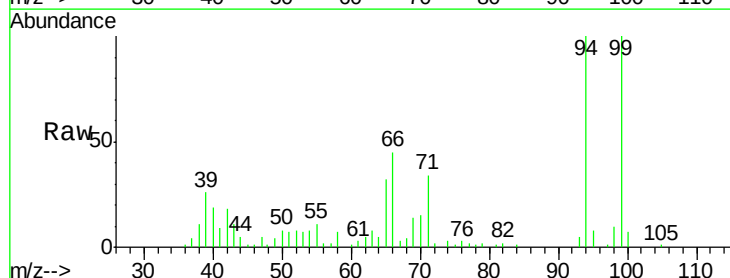
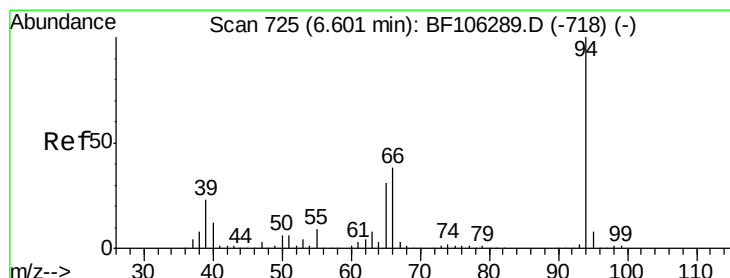
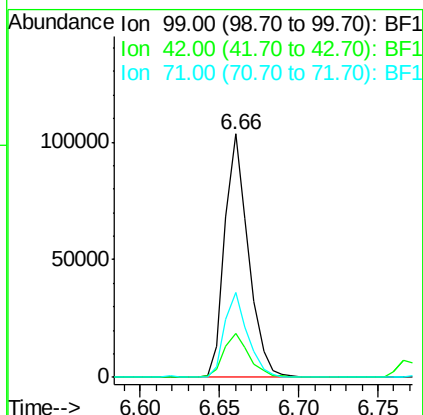
BNA_F

ClientSampled :

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#10

Phenol

Concen: 3.779 ng

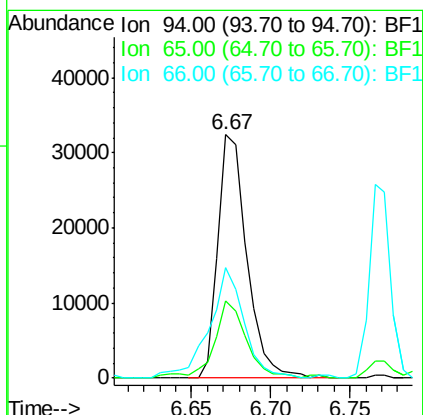
RT: 6.67 min Scan# 737

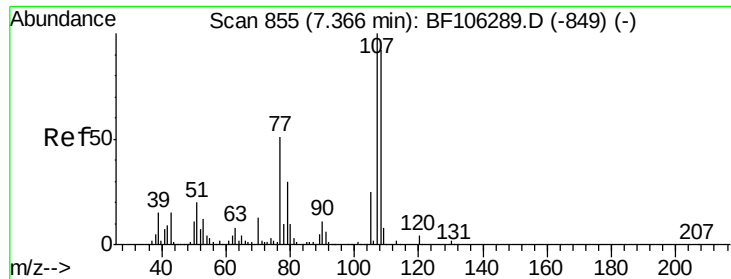
Delta R.T. 0.03 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Tgt Ion:	94	Resp:	41189
Ion Ratio	Lower	Upper	
94	100		
65	32.0	7.9	47.9
66	45.3	16.2	56.2





#20

3+4-Methylphenols

Concen: 2.732 ng

RT: 7.42 min Scan# 865

Delta R.T. 0.02 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Instrument :

BNA_F

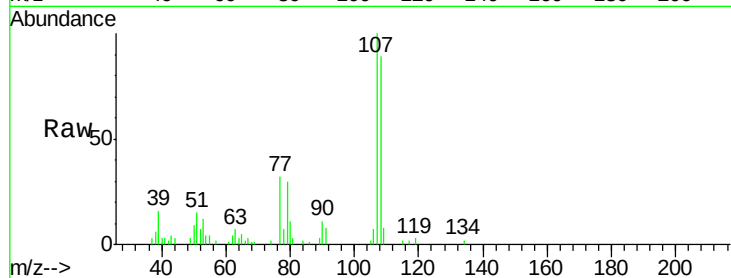
ClientSampleId :

SB02-2 BOT_7

Tot Ion	107	Resp	26485
Ion Ratio	Lower	Upper	
107	100		
108	88.5	68.2	108.2
77	31.7	26.7	66.7
79	30.0	6.3	46.3

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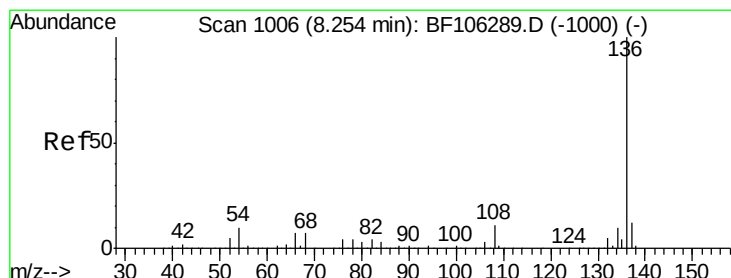
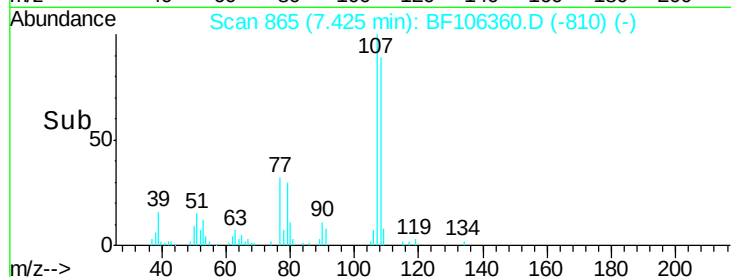
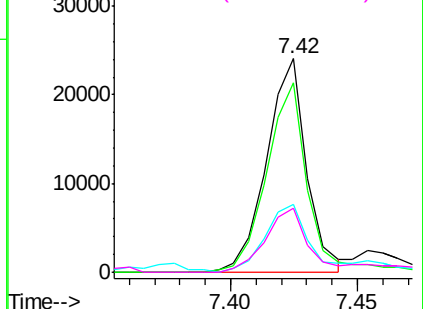


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.26 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

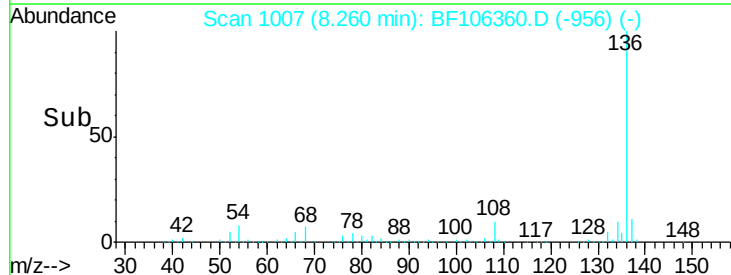
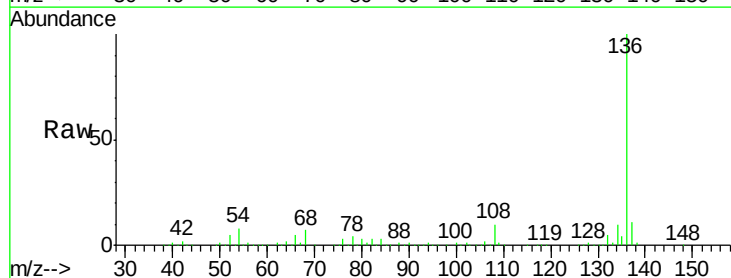
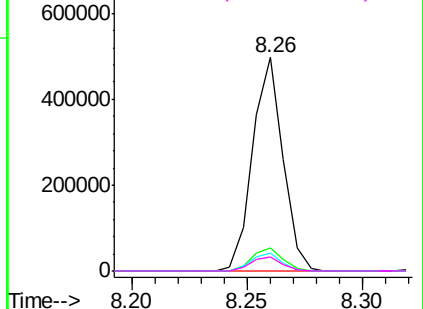
Tgt Ion	136	Resp	455574
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	8.4	6.6	9.8
68	6.8	5.0	7.4

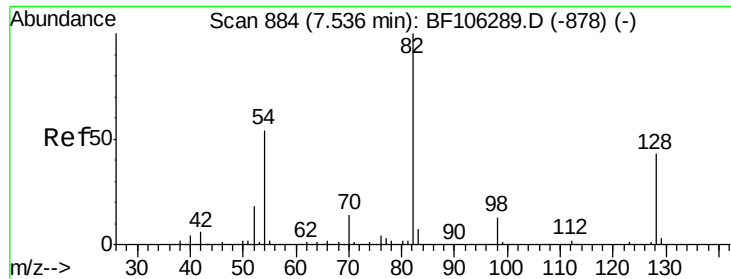
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





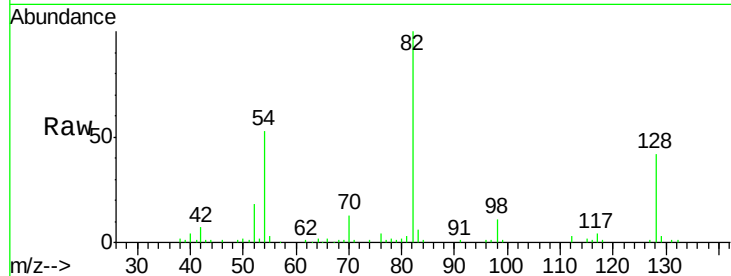
#23
Nitrobenzene-d5
Concen: 7.371 ng
RT: 7.53 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7

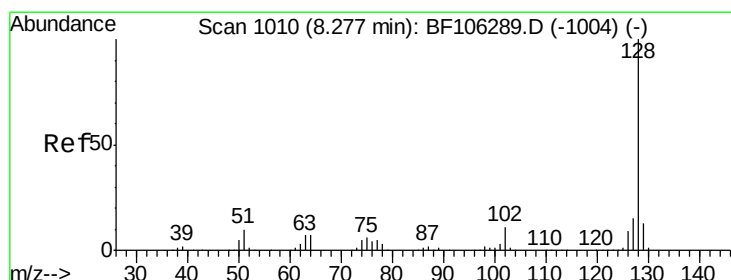
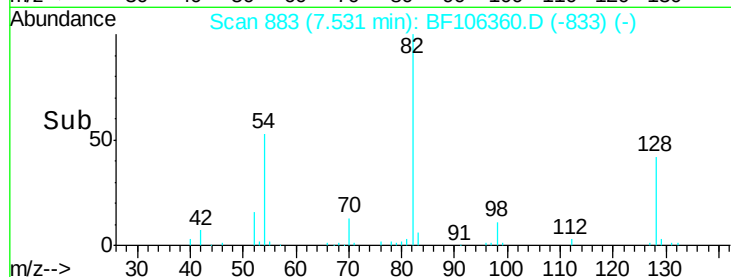
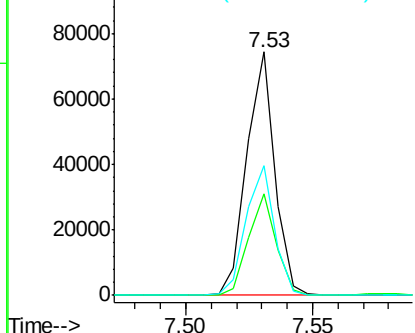
Tot Ion	Ratio	Lower	Upper
82	100		
128	41.8	36.1	54.1
54	53.2	41.4	62.2

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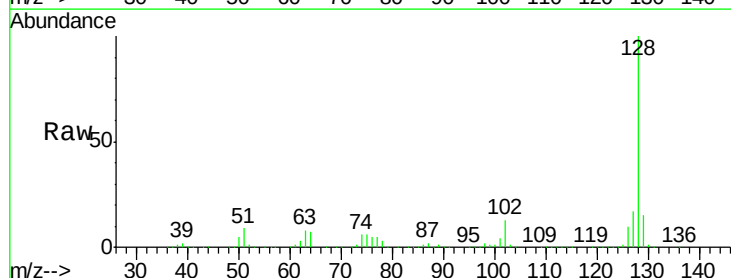


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

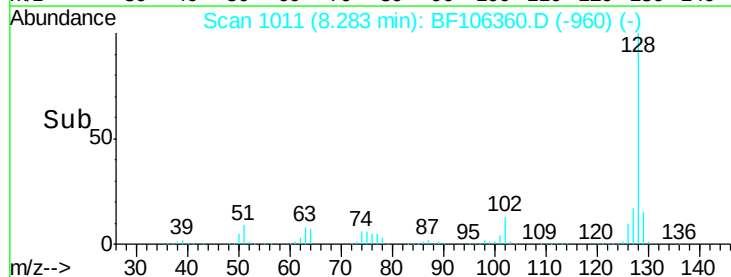
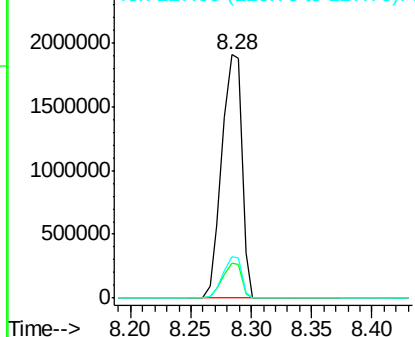


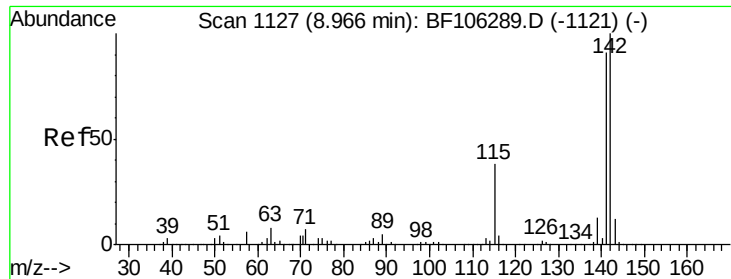
#31
Naphthalene
Concen: 106.971 ng
RT: 8.28 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.6	8.8	13.2#
127	17.0	10.9	16.3#



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





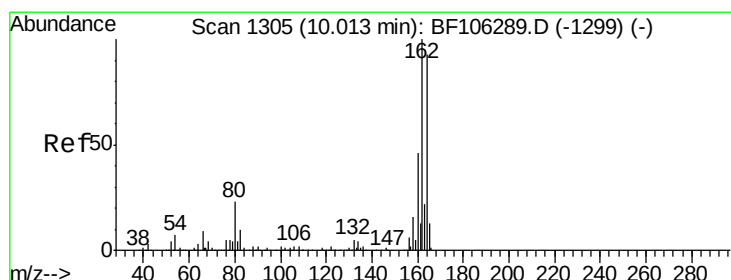
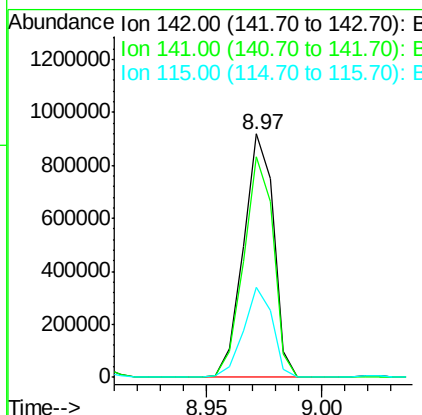
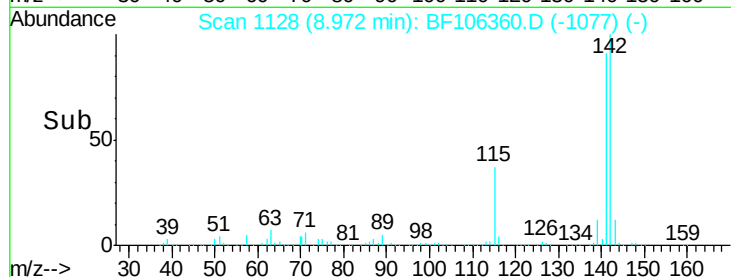
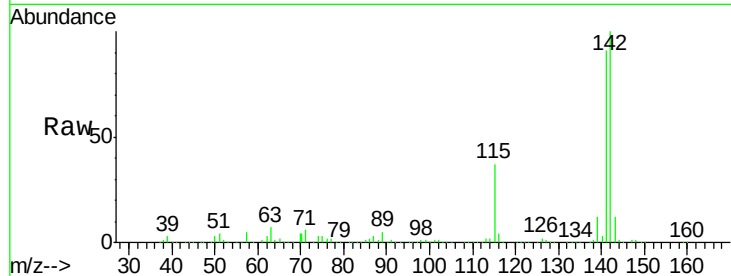
#37
2-Methylnaphthalene
Concen: 59.949 ng
RT: 8.97 min Scan# 1128
Delta R.T. -0.00 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.8	70.8	106.2
115	37.1	26.1	39.1

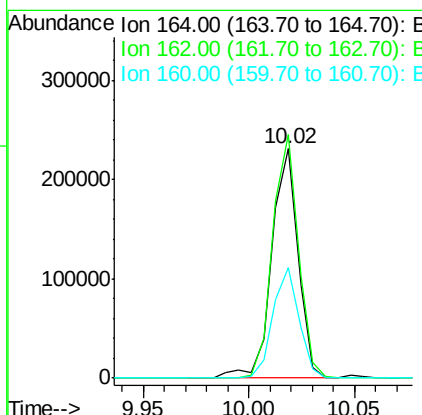
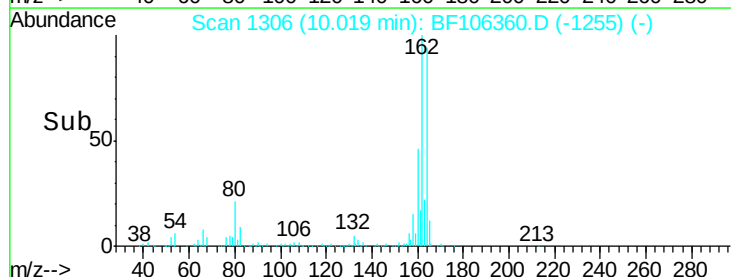
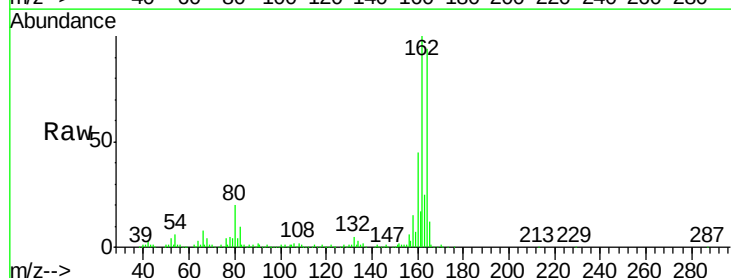
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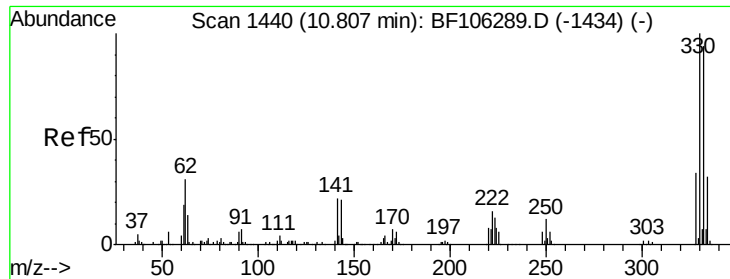
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1306
Delta R.T. -0.00 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.2	86.1	129.1
160	48.3	38.3	57.5





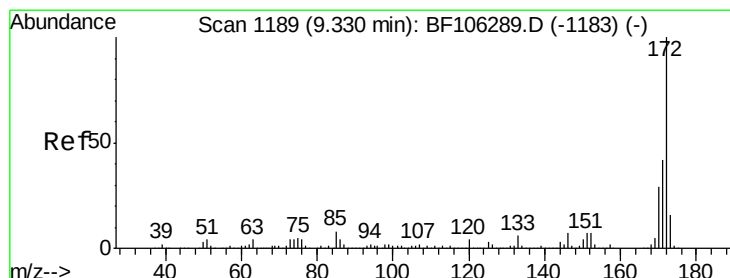
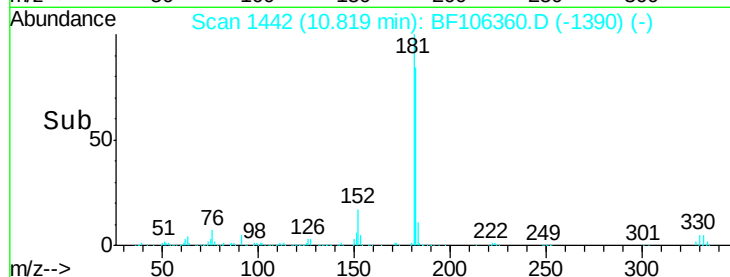
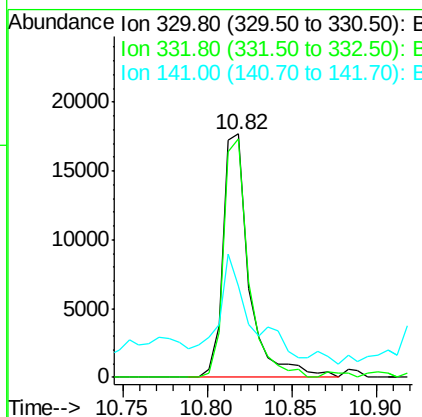
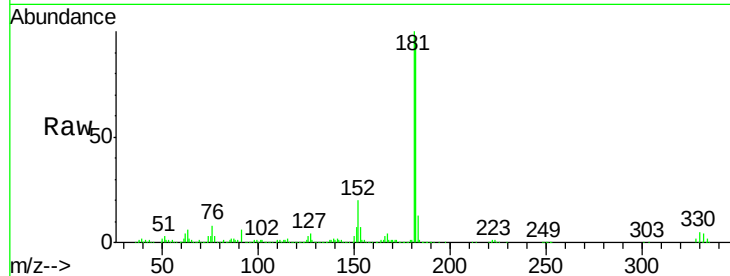
#41
 2,4,6-Tribromophenol
 Concen: 9.871 ng
 RT: 10.82 min Scan# 1442
 Delta R.T. 0.01 min
 Lab File: BF106360.D
 Acq: 12 Jun 2018 22:17

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.8	77.0	115.6
141	55.1	29.9	44.9

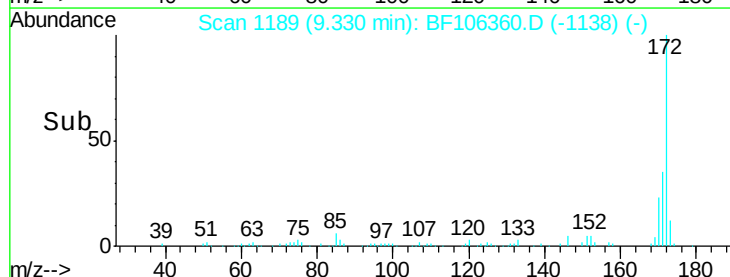
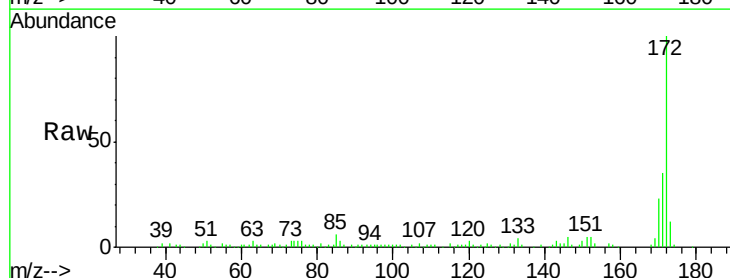
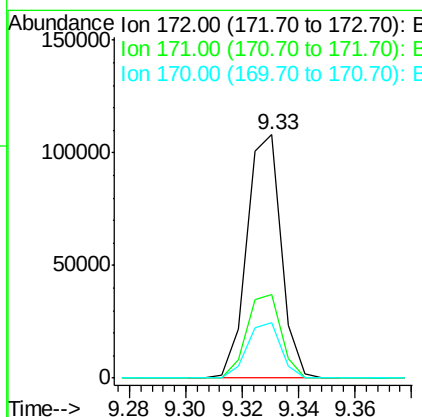
Manual Integrations
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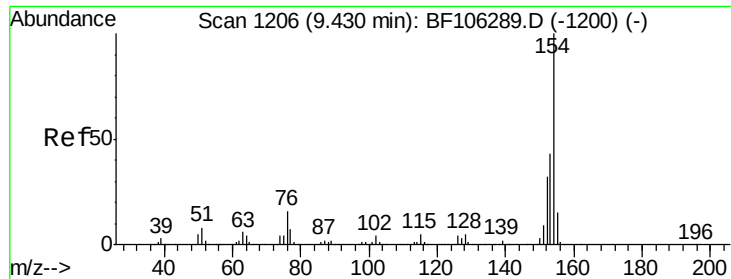
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#44
 2-Fluorobiphenyl
 Concen: 7.728 ng
 RT: 9.33 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: BF106360.D
 Acq: 12 Jun 2018 22:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.7	44.5
170	22.8	19.6	29.4





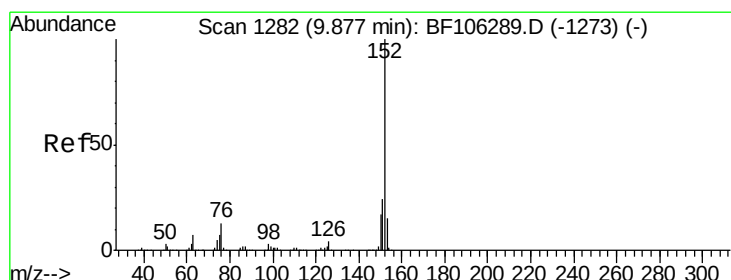
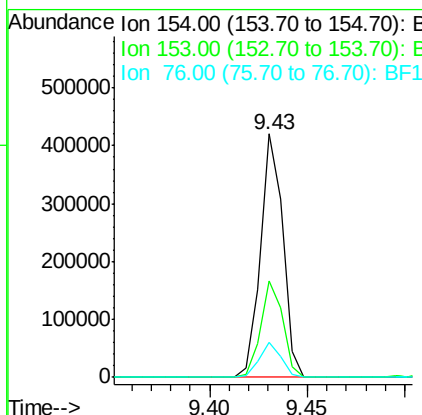
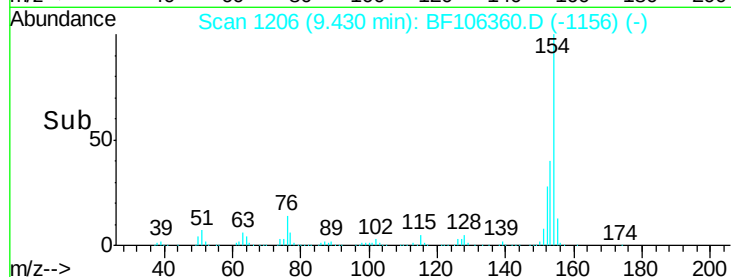
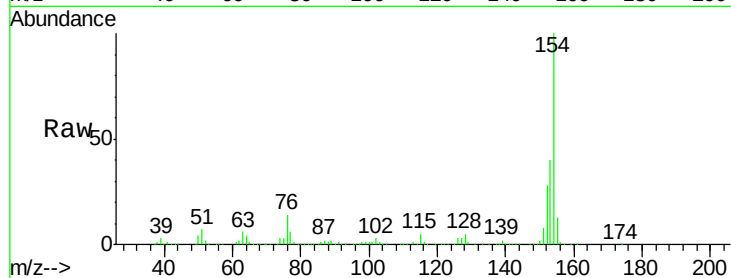
#45
 1,1'-Biphenyl
 Concen: 21.481 ng
 RT: 9.43 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: BF106360.D
 Acq: 12 Jun 2018 22:17

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7

Tot Ion:	154	Resp:	333201
Ion Ratio	Lower	Upper	
154	100		
153	39.5	21.3	61.3
76	14.3	0.0	34.0

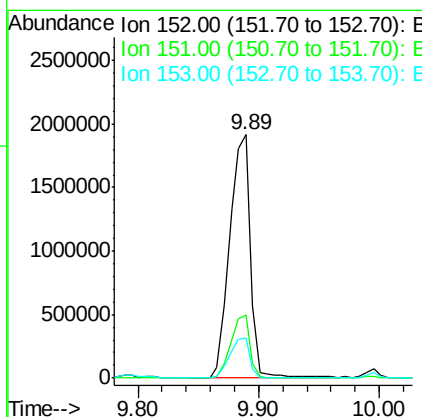
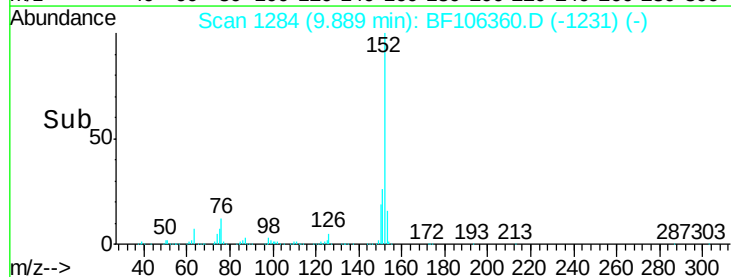
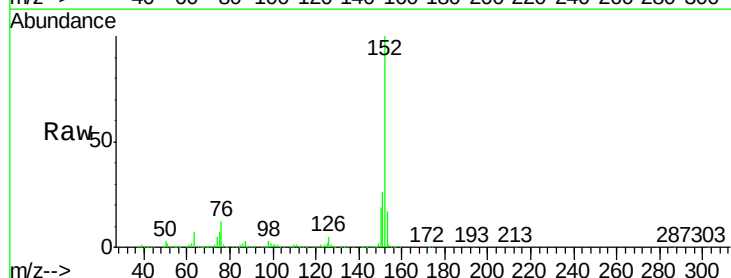
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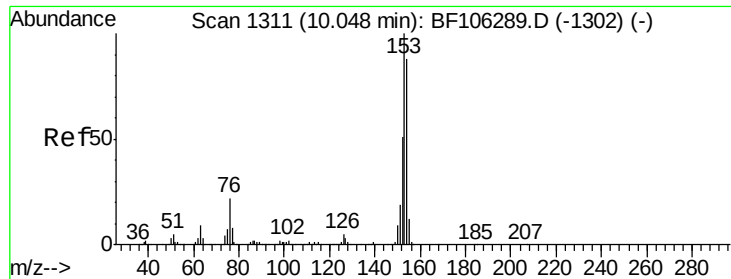
Sohil
 6/14/2018 3:53:20 PM



#48
 Acenaphthylene
 Concen: 120.889 ng
 RT: 9.89 min Scan# 1284
 Delta R.T. 0.01 min
 Lab File: BF106360.D
 Acq: 12 Jun 2018 22:17

Tgt Ion:	152	Resp:	2296944
Ion Ratio	Lower	Upper	
152	100		
151	25.9	16.3	24.5#
153	16.5	10.7	16.1#





#51

Acenaphthene

Concen: 67.933 ng

RT: 10.05 min Scan# 1312

Delta R.T. 0.01 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Instrument :

BNA_F

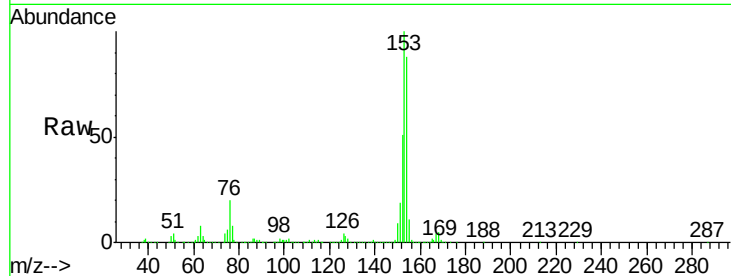
ClientSampleId :

SB02-2 BOT_7

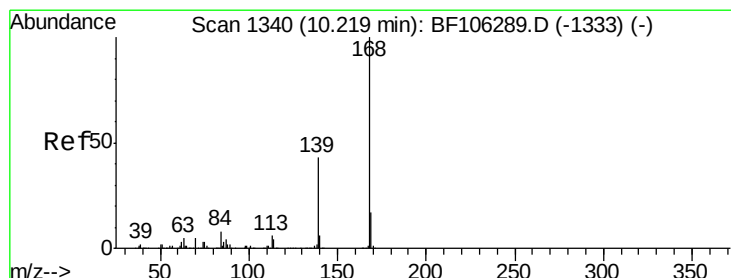
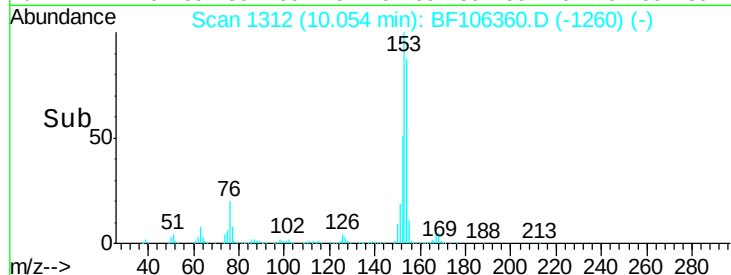
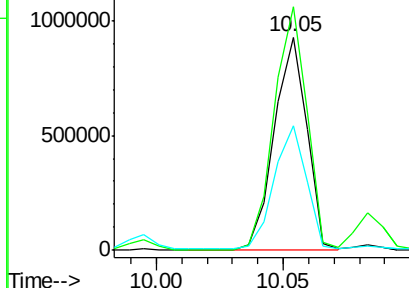
Tot Ion:	154	Resp:	833583
Ion Ratio	Lower	Upper	
154	100		
153	114.1	91.2	136.8
152	58.7	43.8	65.8

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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: 94.071 ng

RT: 10.22 min Scan# 1341

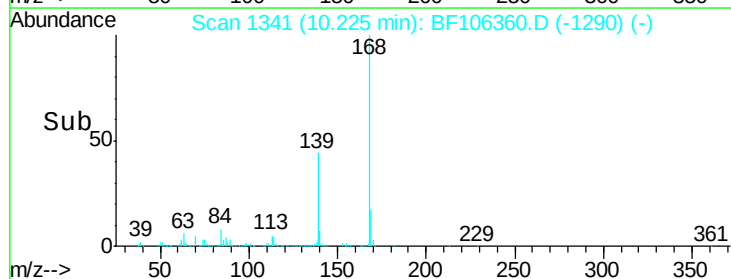
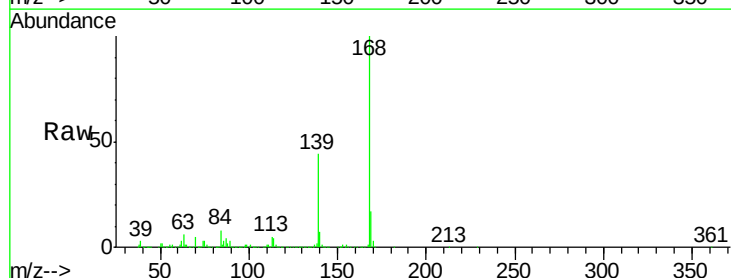
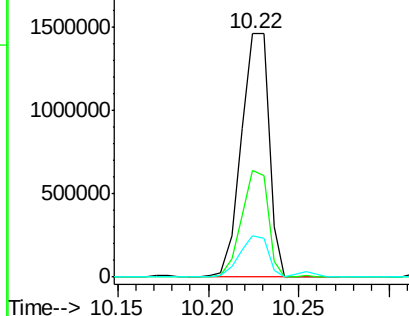
Delta R.T. -0.00 min

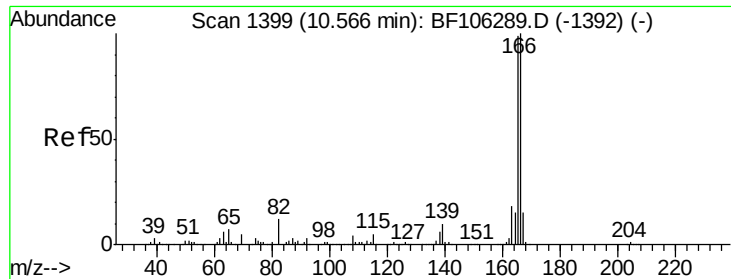
Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Tgt Ion:	168	Resp:	1554374
Ion Ratio	Lower	Upper	
168	100		
139	44.0	30.1	45.1
169	17.2	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





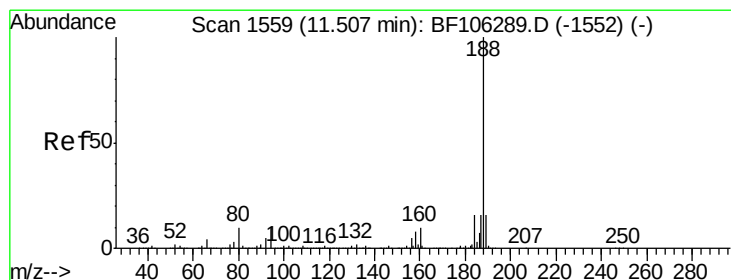
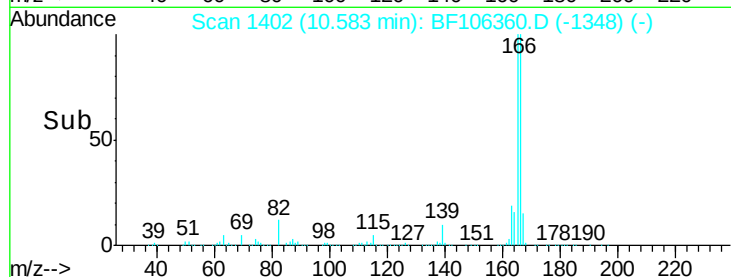
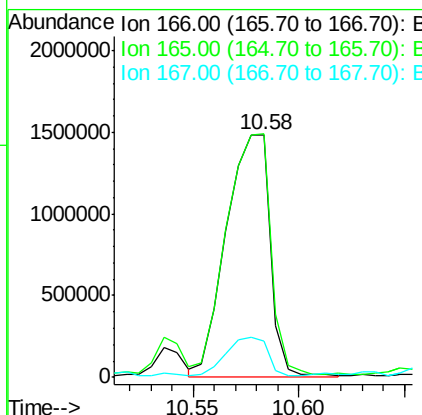
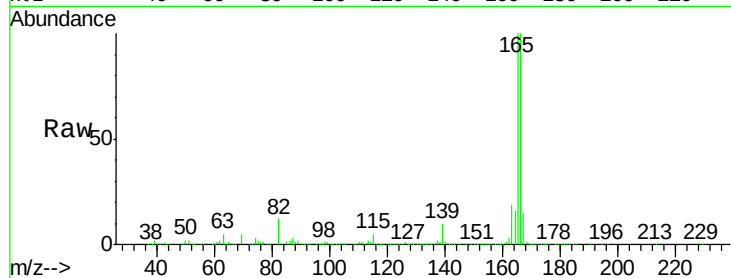
#57
 Fluorene
 Concen: 162.781 ng
 RT: 10.58 min Scan# 1402
 Delta R.T. 0.02 min
 Lab File: BF106360.D
 Acq: 12 Jun 2018 22:17

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	100.5	79.8	119.8	
167	15.1	10.6	16.0	

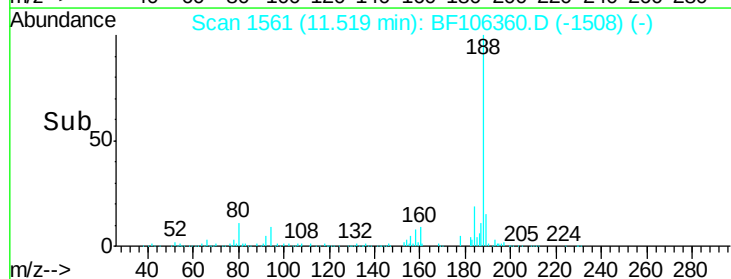
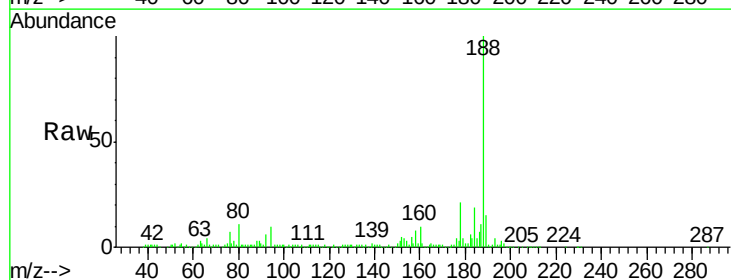
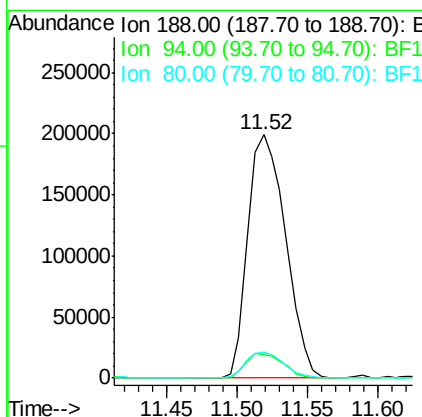
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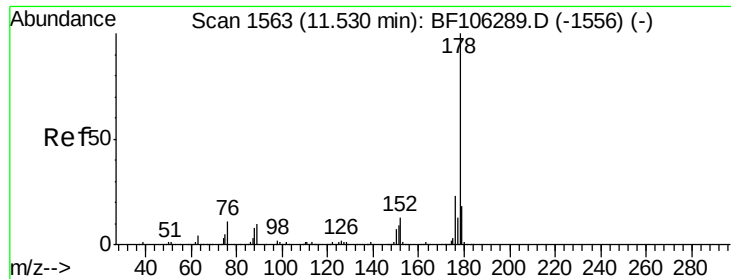
Sohil
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#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.52 min Scan# 1561
 Delta R.T. 0.01 min
 Lab File: BF106360.D
 Acq: 12 Jun 2018 22:17

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	9.5	8.5	12.7	
80	10.9	9.2	13.8	





#70

Phenanthrene

Concen: 314.535 ng

RT: 11.55 min Scan# 1567

Delta R.T. 0.02 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Instrument :

BNA_F

ClientSampleId :

SB02-2 BOT_7

Tot Ion:178 Resp: 5784272

Ion Ratio Lower Upper

178 100

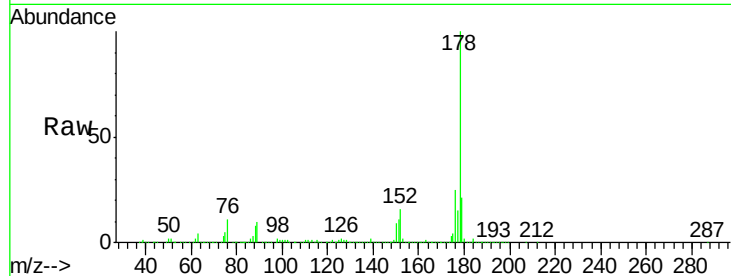
176 25.4 15.8 23.8#

179 21.3 13.0 19.6#

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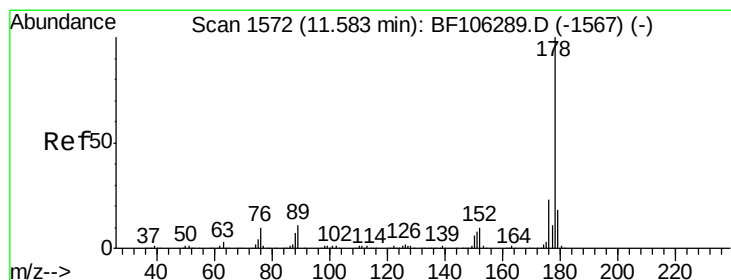
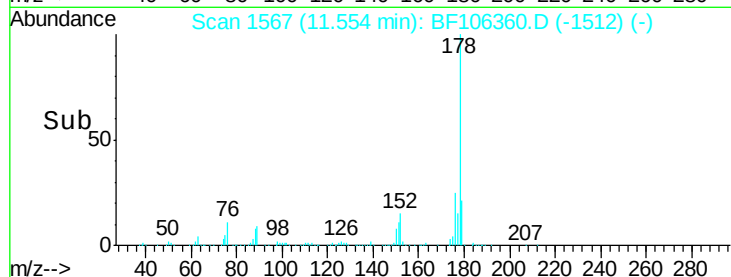
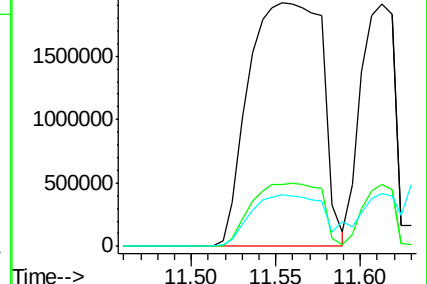
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 147.850 ng

RT: 11.61 min Scan# 1577

Delta R.T. 0.03 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Tgt Ion:178 Resp: 2723894

Ion Ratio Lower Upper

178 100

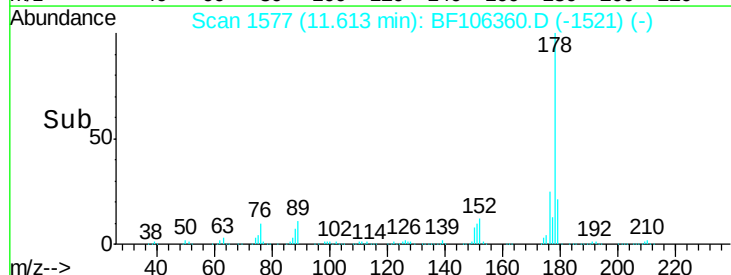
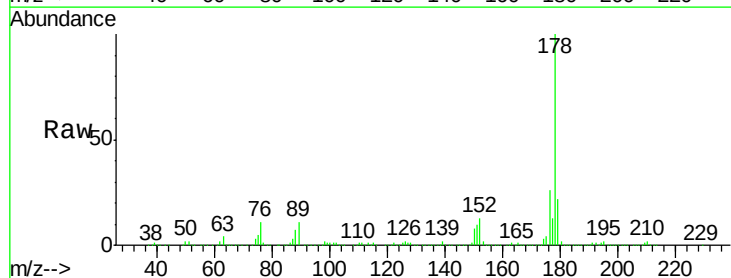
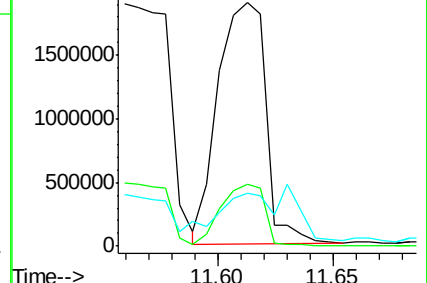
176 25.5 15.4 23.2#

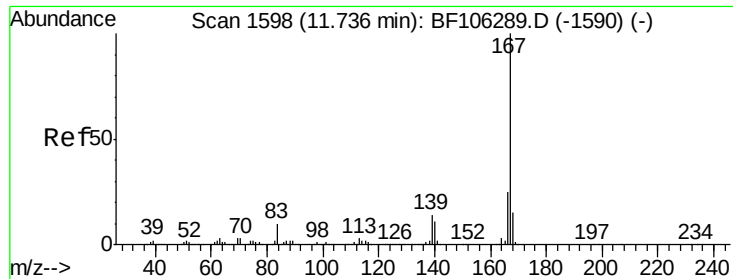
179 21.5 12.6 19.0#

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 62.516 ng

RT: 11.75 min Scan# 1601

Delta R.T. 0.01 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Instrument :

BNA_F

ClientSampleId :

SB02-2 BOT_7

Tot Ion:167 Resp: 1063305

Ion Ratio Lower Upper

167 100

166 23.7 17.6 26.4

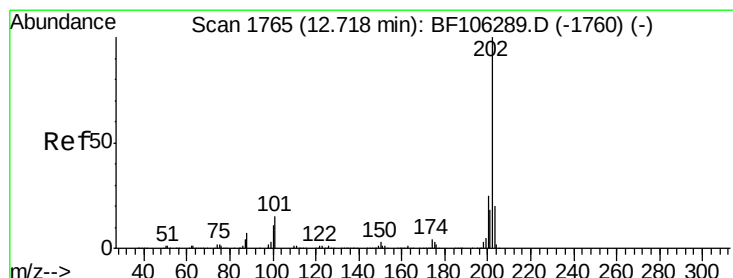
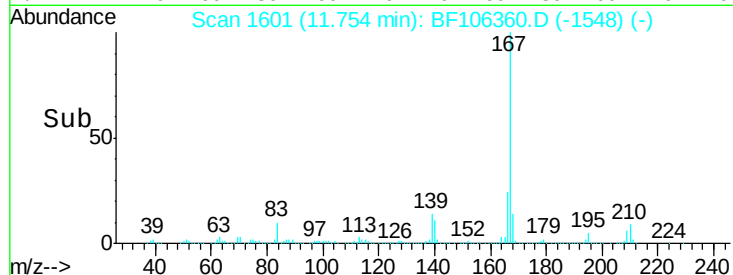
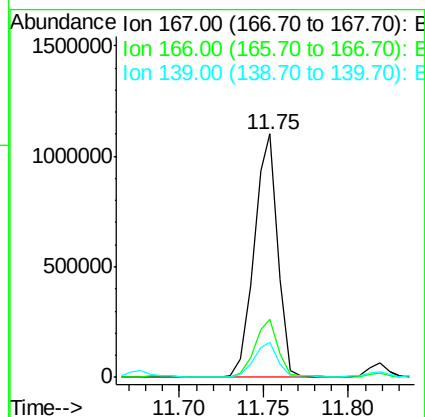
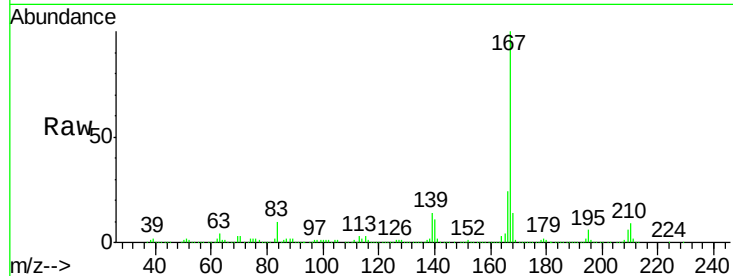
139 14.2 10.9 16.3

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#74

Fluoranthene

Concen: 379.045 ng m

RT: 12.75 min Scan# 1770

Delta R.T. 0.02 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

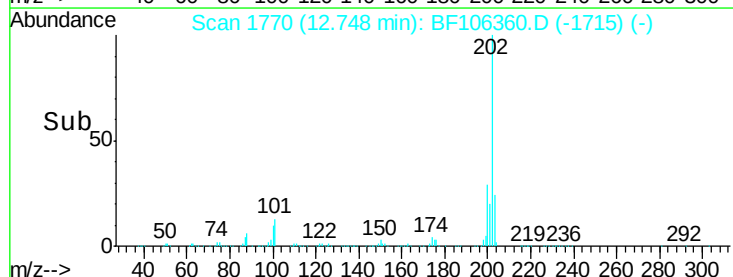
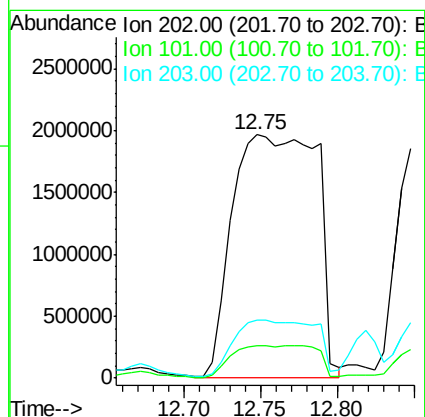
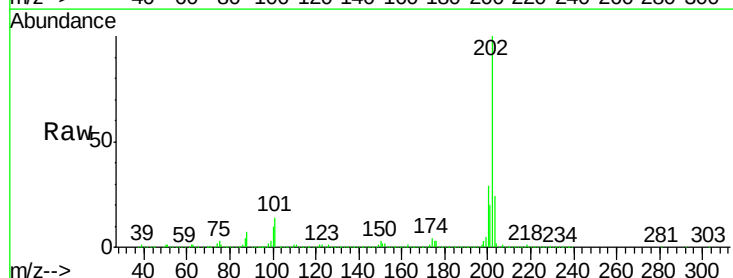
Tgt Ion:202 Resp: 7433795

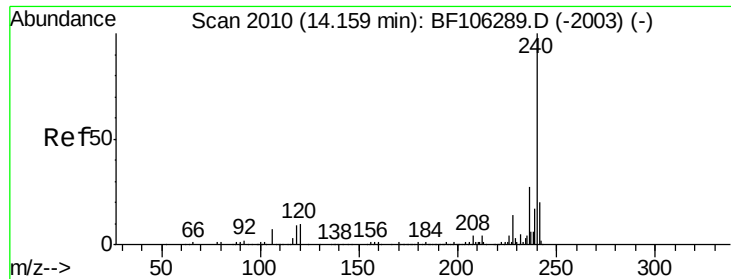
Ion Ratio Lower Upper

202 100

101 13.5 0.0 34.1

203 23.9 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.20 min Scan# 2017

Delta R.T. 0.04 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Instrument :

BNA_F

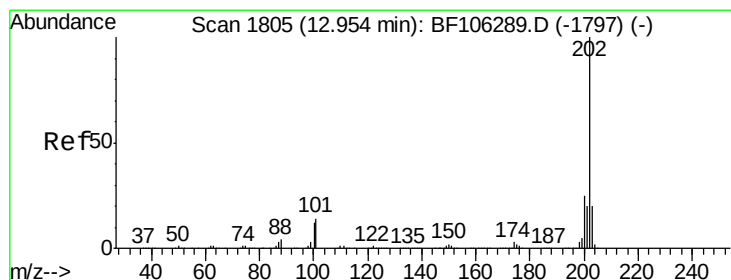
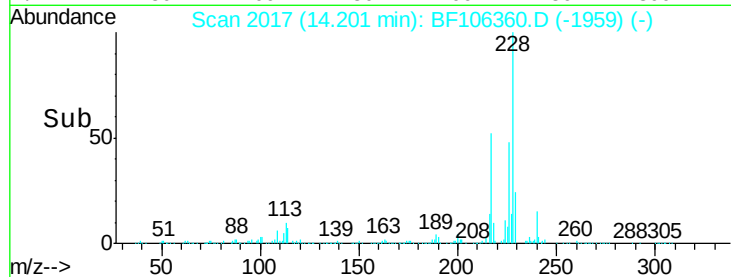
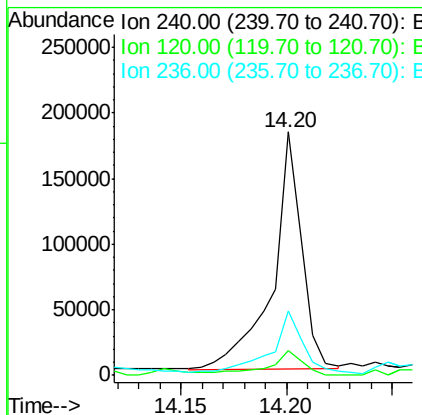
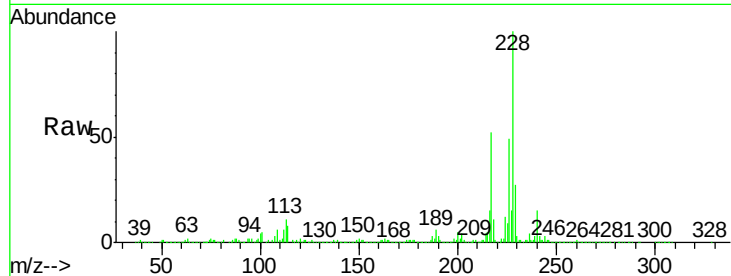
ClientSampleId :

SB02-2 BOT_7

Tot Ion:	240	Resp:	172353
Ion Ratio	Lower	Upper	
240	100		
120	10.1	9.5	14.3
236	26.3	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 539.910 ng

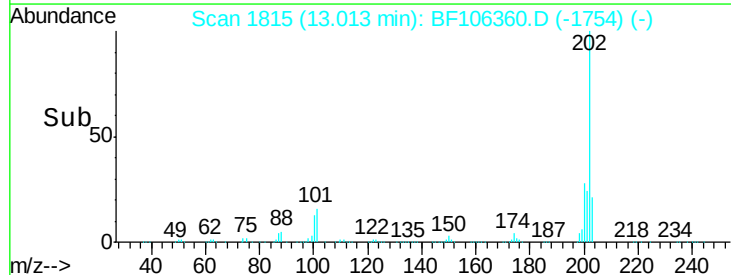
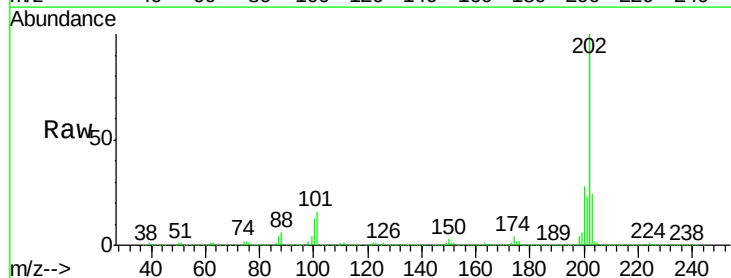
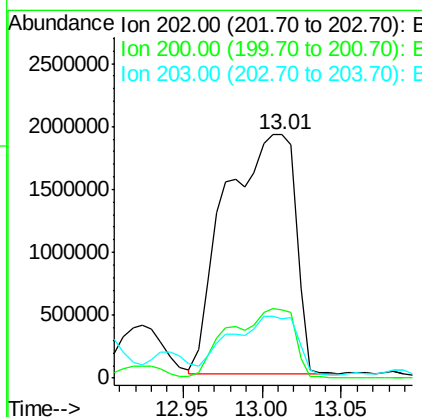
RT: 13.01 min Scan# 1815

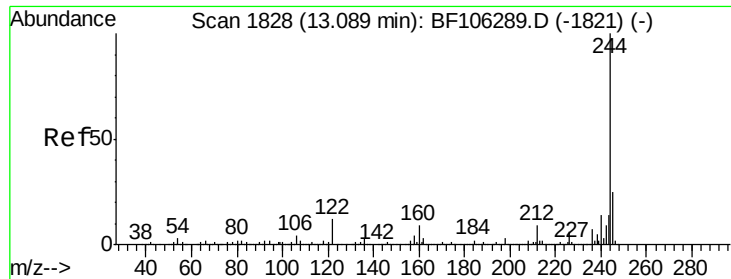
Delta R.T. 0.06 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Tgt Ion:	202	Resp:	5825824
Ion Ratio	Lower	Upper	
202	100		
200	28.3	17.4	26.2#
203	24.1	14.3	21.5#





#78

Terphenyl-d14

Concen: 17.824 ng

RT: 13.10 min Scan# 1830

Delta R.T. 0.01 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Instrument :

BNA_F

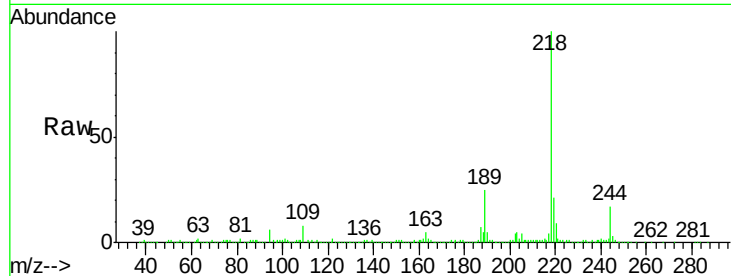
ClientSampleId :

SB02-2 BOT_7

Tot Ion:	244	Resp:	123681
Ion Ratio	Lower	Upper	
244	100		
212	7.3	5.4	8.0
122	12.6	11.0	16.4

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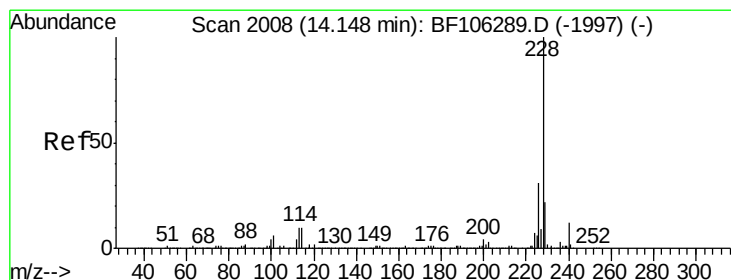
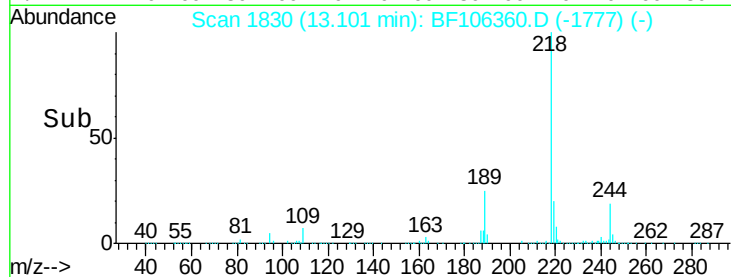
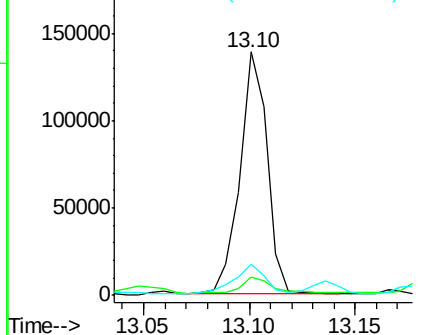
Sohil
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 491.758 ng

RT: 14.19 min Scan# 2015

Delta R.T. 0.04 min

Lab File: BF106360.D

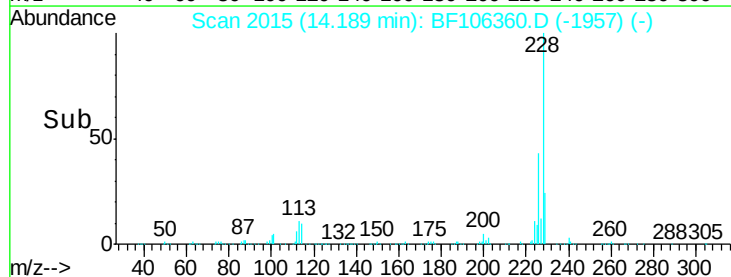
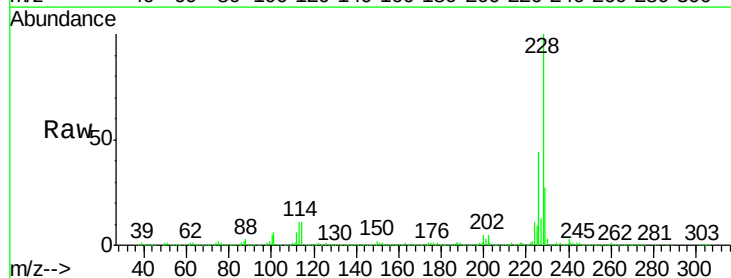
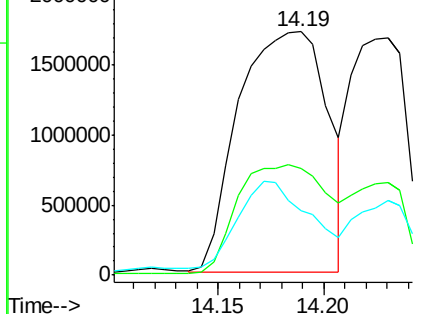
Acq: 12 Jun 2018 22:17

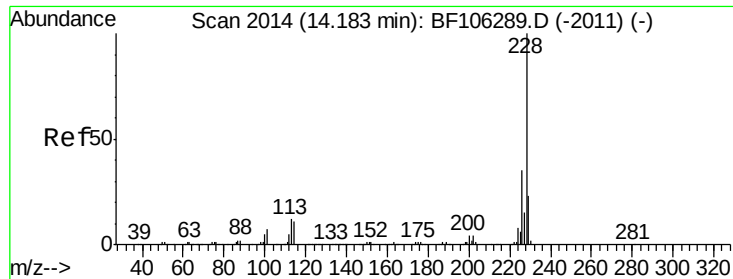
Tgt Ion:	228	Resp:	5043776
Ion Ratio	Lower	Upper	
228	100		
226	43.7	22.6	33.8#
229	26.6	15.8	23.6#

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





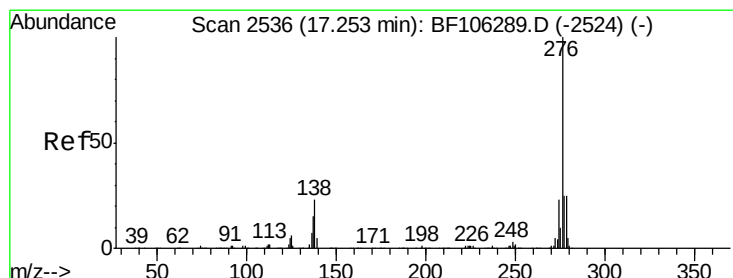
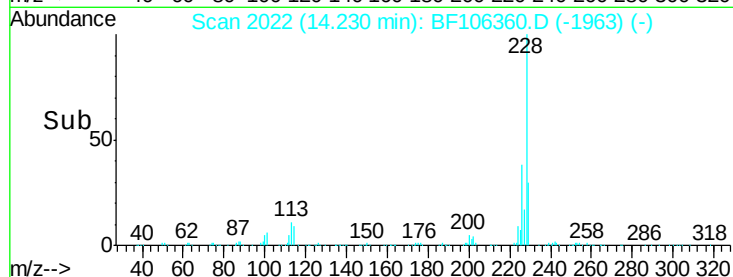
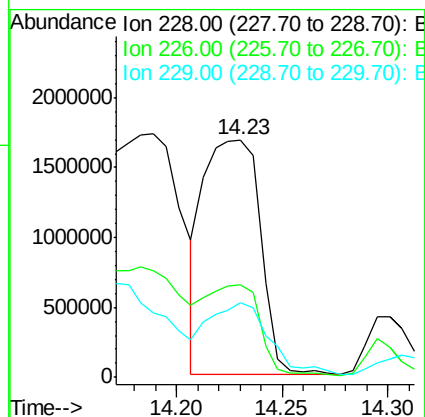
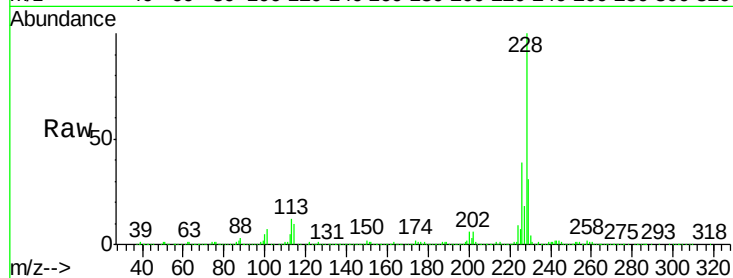
#82
Chrysene
Concen: 331.117 ng
RT: 14.23 min Scan# 2022
Delta R.T. 0.05 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Instrument :
BNA_F
ClientSampled :
SB02-2 BOT_7

Tot Ion:228 Resp: 3100684
Ion Ratio Lower Upper
228 100
226 38.8 25.0 37.6#
229 31.2 16.2 24.4#

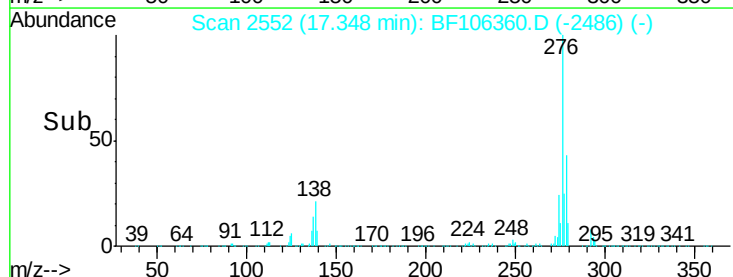
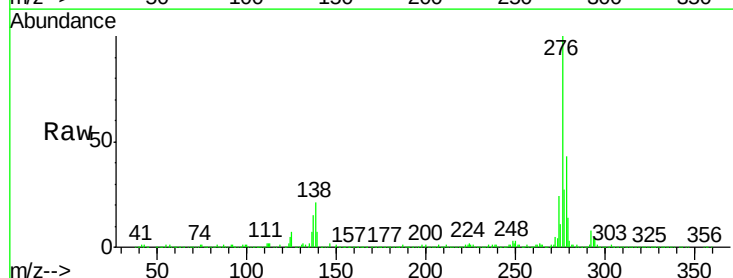
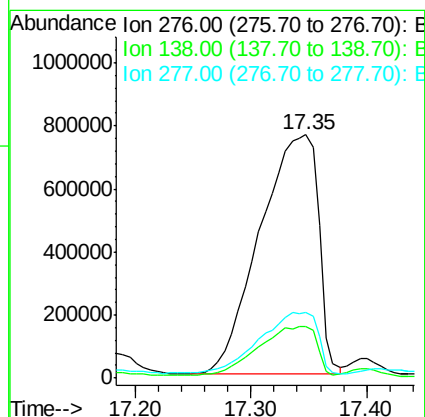
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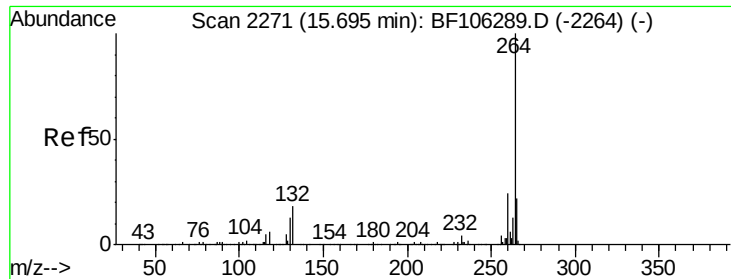
Sohil
6/14/2018 3:53:20 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 356.656 ng
RT: 17.35 min Scan# 2552
Delta R.T. 0.09 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Tgt Ion:276 Resp: 2665478
Ion Ratio Lower Upper
276 100
138 20.2 25.0 37.6#
277 25.9 20.1 30.1





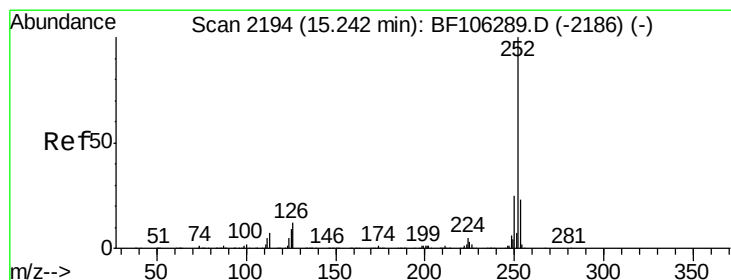
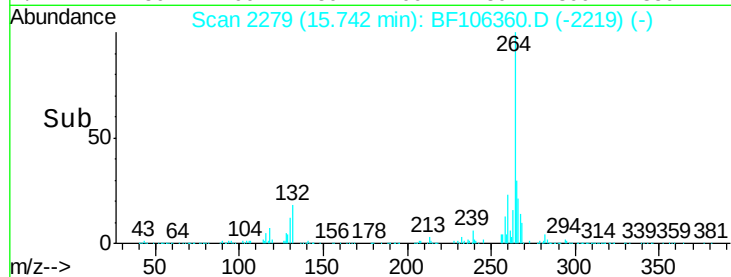
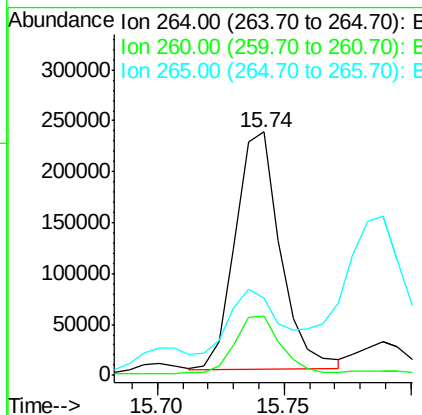
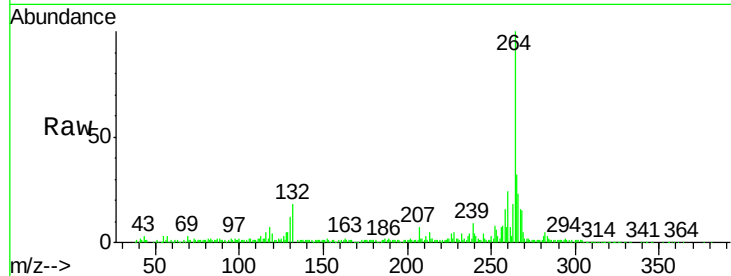
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.74 min Scan# 2279
Delta R.T. 0.05 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	32.0	17.5	26.3

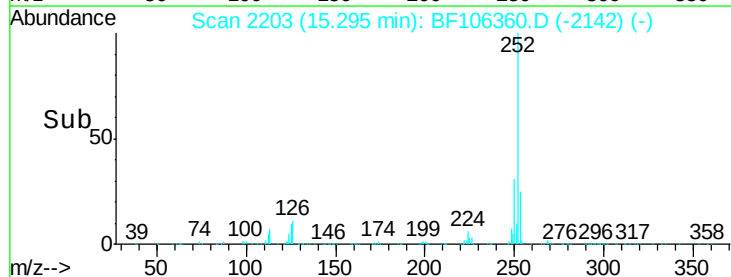
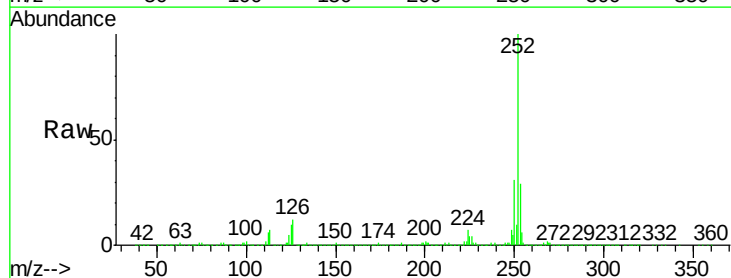
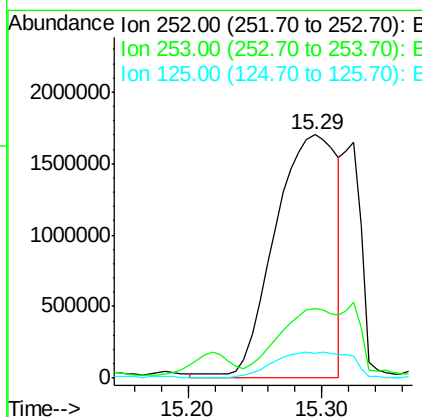
Manual Integrations
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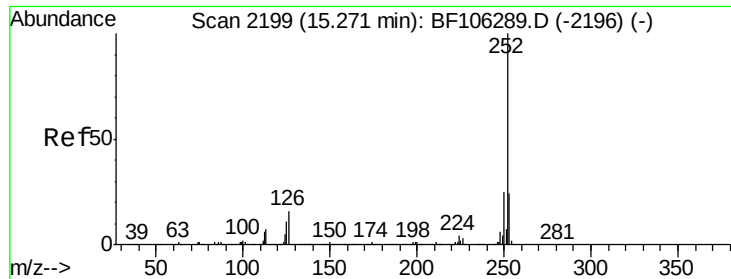
Sohil
6/14/2018 3:53:20 PM



#87
Benzo(b)fluoranthene
Concen: 315.741 ng m
RT: 15.29 min Scan# 2203
Delta R.T. 0.06 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.7	17.0	25.6
125	10.4	9.0	13.6





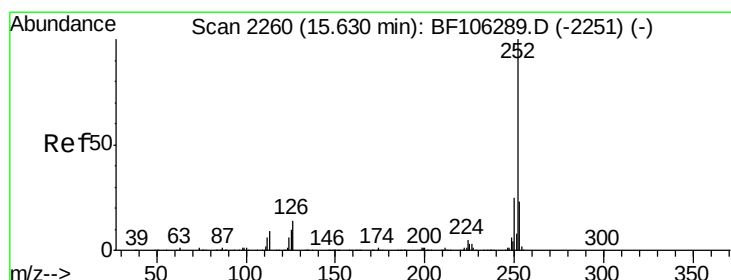
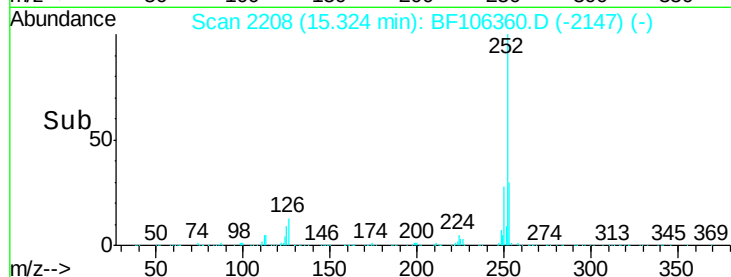
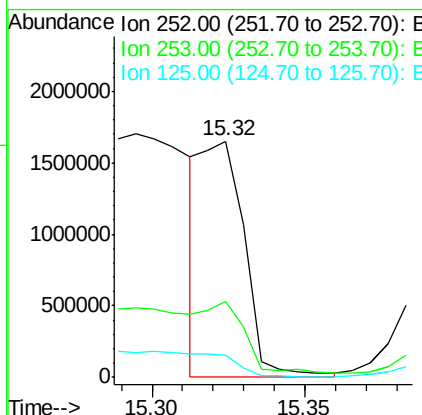
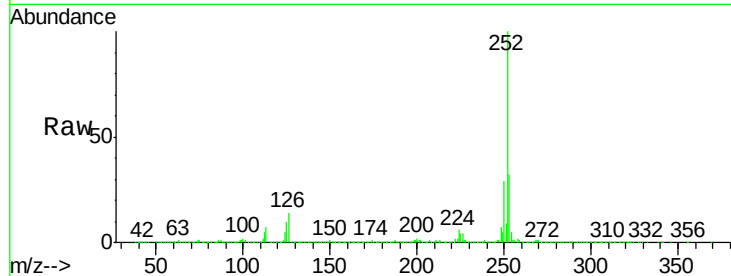
#88
Benzo(k)fluoranthene
Concen: 93.812 ng m
RT: 15.32 min Scan# 2208
Delta R.T. 0.06 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7

Tot Ion:252 Resp: 1618104
Ion Ratio Lower Upper
252 100
253 32.0 17.9 26.9#
125 9.6 10.2 15.2#

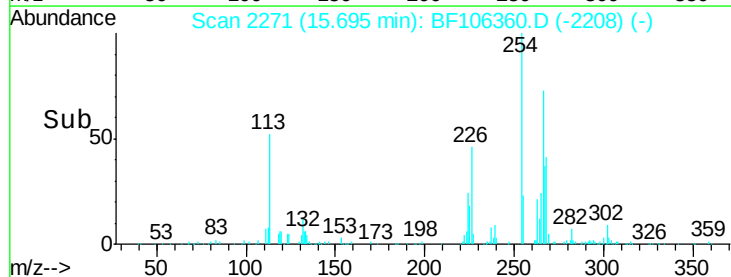
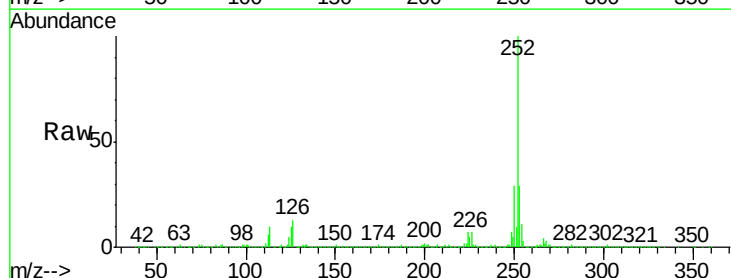
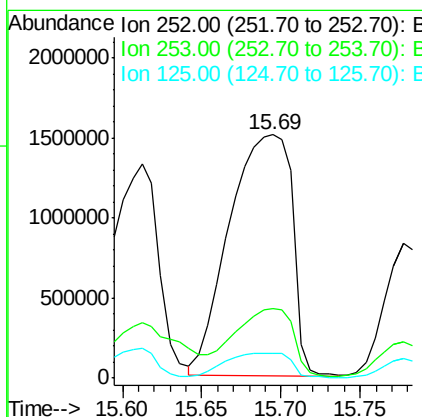
Manual Integrations
APPROVED

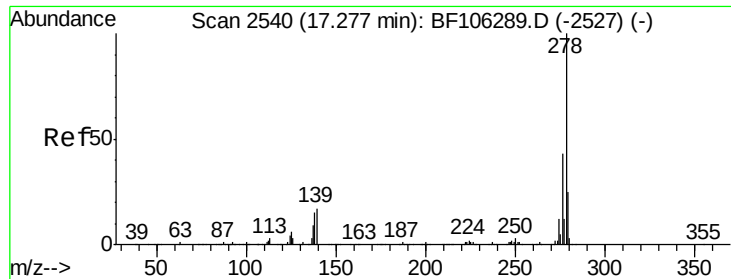
Sohil
6/14/2018 3:53:20 PM



#89
Benzo(a)pyrene
Concen: 264.623 ng
RT: 15.69 min Scan# 2271
Delta R.T. 0.07 min
Lab File: BF106360.D
Acq: 12 Jun 2018 22:17

Tgt Ion:252 Resp: 4145313
Ion Ratio Lower Upper
252 100
253 28.6 17.1 25.7#
125 10.1 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 59.389 ng/mL

RT: 17.35 min Scan# 2552

Delta R.T. 0.07 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Instrument :

BNA_F

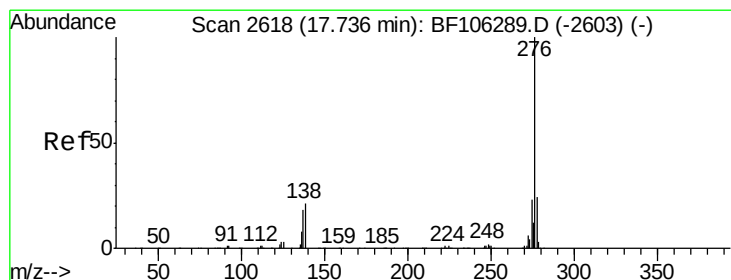
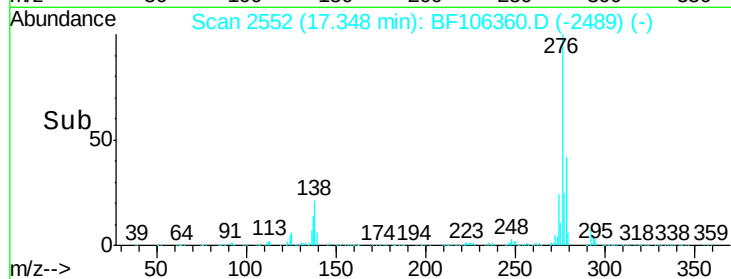
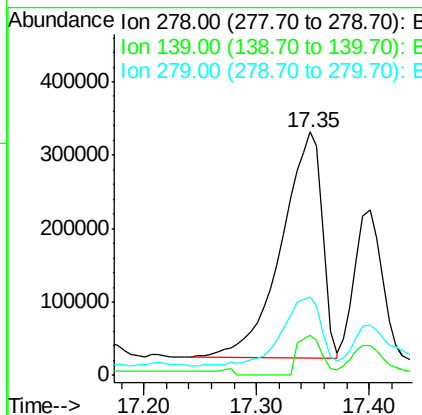
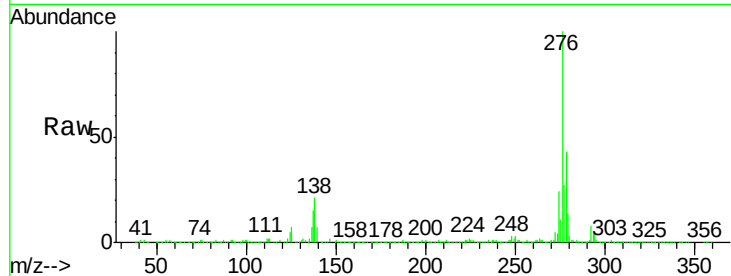
ClientSampleId :

SB02-2 BOT_7

Tot Ion:	278	Resp:	775607
Ion Ratio	Lower	Upper	
278	100		
139	16.4	15.9	23.9
279	32.3	19.0	28.4#

Manual Integrations
APPROVED

Sohil
6/14/2018 3:53:20 PM



#91

Benzo(g,h,i)perylene

Concen: 184.247 ng/mL

RT: 17.84 min Scan# 2635

Delta R.T. 0.10 min

Lab File: BF106360.D

Acq: 12 Jun 2018 22:17

Tgt Ion:	276	Resp:	2338457
Ion Ratio	Lower	Upper	
276	100		
277	25.4	17.9	26.9
138	21.6	21.8	32.8#

