

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101987.D
 Acq On : 10 Jan 2018 19:03
 Operator : SJ/JU
 Sample : J1076-04 50X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-01

Manual Integrations
 APPROVED

Sohil
 1/11/2018 10:52:49 AM

Quant Time: Jan 11 03:39:43 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	224296	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	920120	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	391834	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	623422	20.00	ng	0.00
75) Chrysene-d12	13.87	240	349123	20.00	ng	0.00
86) Perylene-d12	15.30	264	378720	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	7116	0.45	ng	0.00
7) Phenol-d6	6.35	99	8723	0.46	ng	0.00
23) Nitrobenzene-d5	7.28	82	5885	0.38	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	1382	0.40	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	10381	0.41	ng	-0.01
78) Terphenyl-d14	12.82	244	7784	0.46	ng	-0.01
Target Compounds						Qvalue
30) 1,2,4-Trichlorobenzene	7.95	180	41410	3.170	ng	95
31) Naphthalene	8.03	128	2492747	54.217	ng	99
37) 2-Methylnaphthalene	8.72	142	689393	22.776	ng	100
45) 1,1'-Biphenyl	9.19	154	114688	3.311	ng	96
48) Acenaphthylene	9.62	152	349963	8.211	ng	99
51) Acenaphthene	9.79	154	95117	3.677	ng	99
54) Dibenzofuran	9.96	168	128450	3.618	ng	# 97
57) Fluorene	10.31	166	274180	11.171	ng	98
70) Phenanthrene	11.27	178	1024207	28.125	ng	99
71) Anthracene	11.32	178	292493	7.920	ng	98
74) Fluoranthene	12.45	202	524659	14.644	ng	99
77) Pyrene	12.68	202	557313	18.059	ng	99
80) Benzo(a)anthracene	13.86	228	178560m	8.016	ng	
82) Chrysene	13.90	228	142066	6.116	ng	98
85) Indeno(1,2,3-cd)pyrene	16.66	276	81586	4.826	ng	98
87) Benzo(b)fluoranthene	14.89	252	155865m	6.312	ng	
88) Benzo(k)fluoranthene	14.91	252	52829m	2.218	ng	
89) Benzo(a)pyrene	15.23	252	150738	6.784	ng	97
91) Benzo(a,h,i)perylene	17.07	276	83679	4.685	ng	94

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

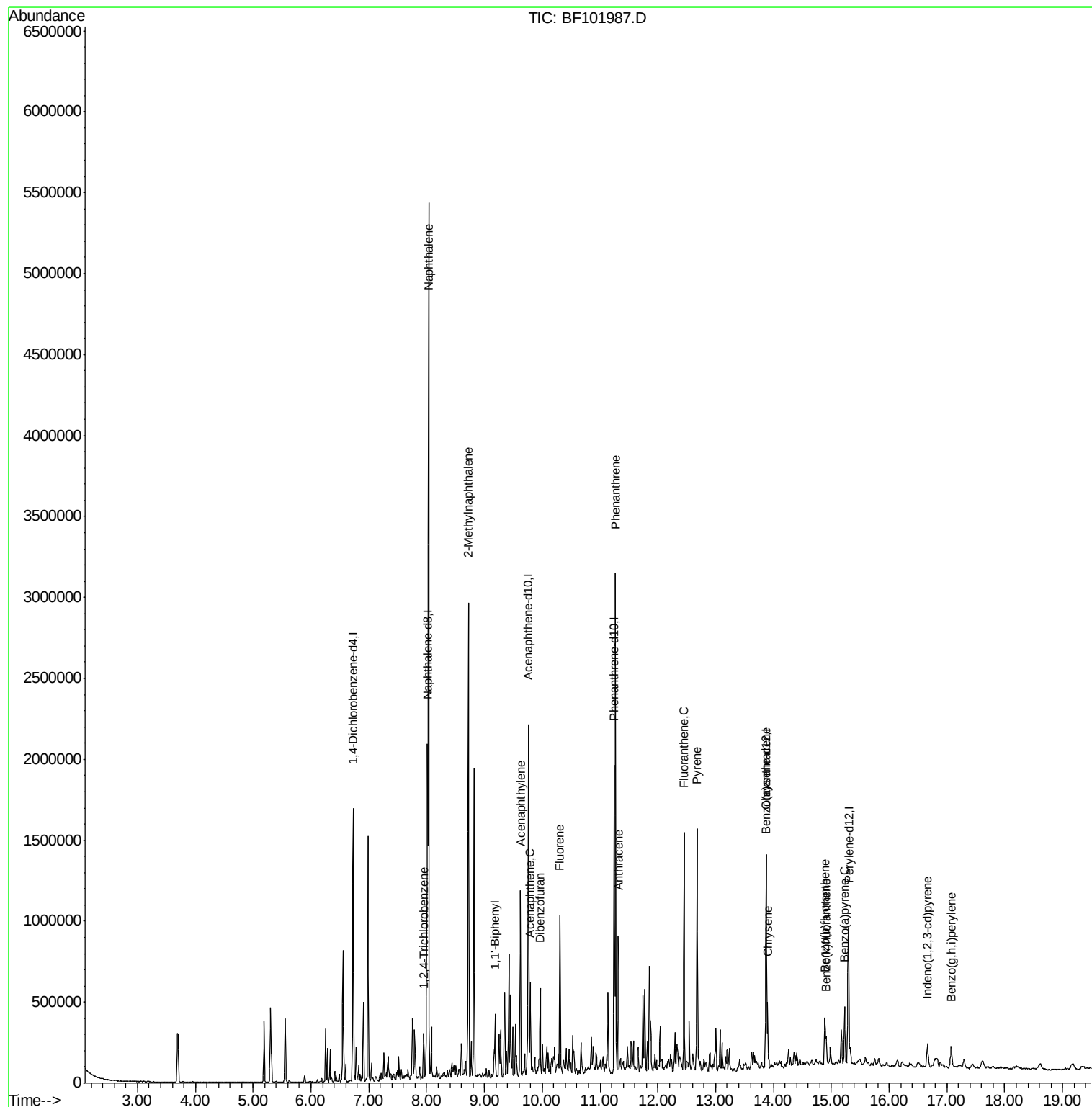
Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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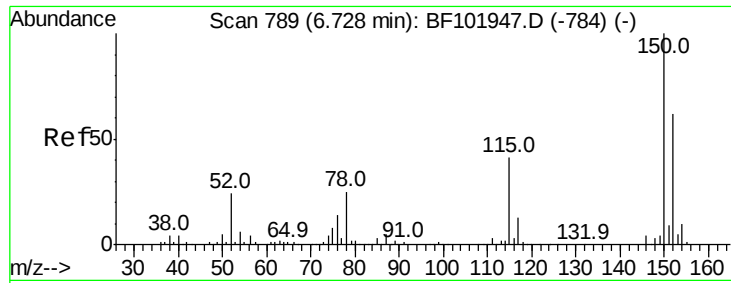
Instrument :
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#1

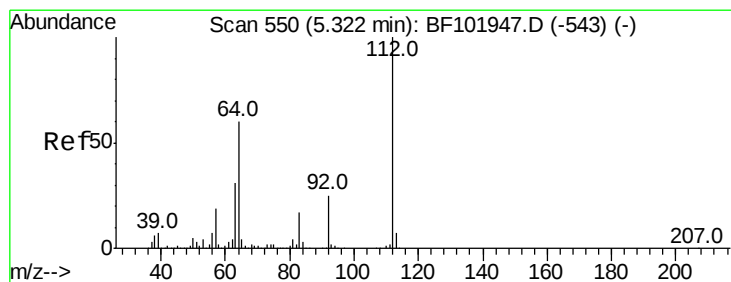
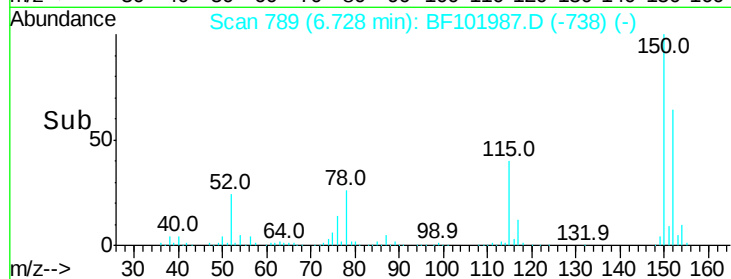
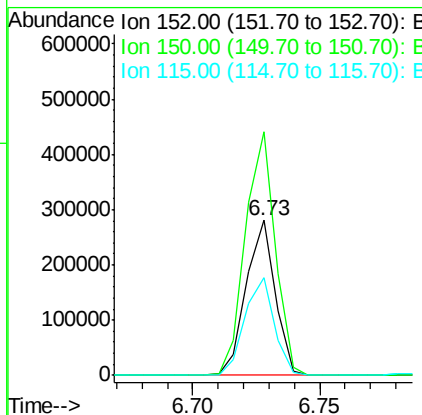
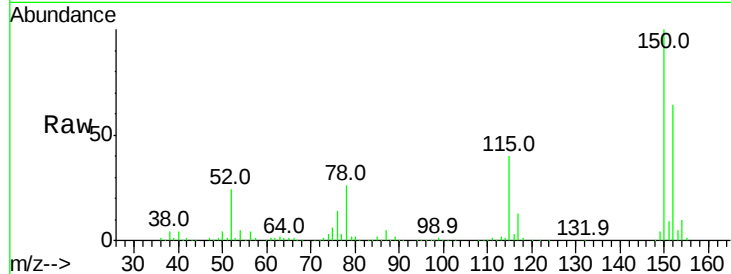
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. 0.00 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.6	186.8
115	62.9	50.1	75.1

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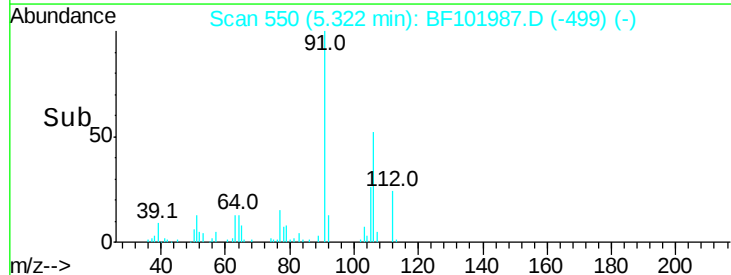
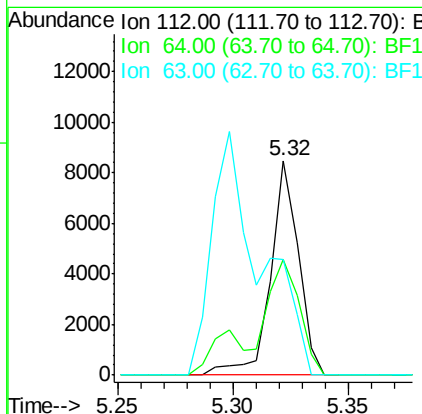
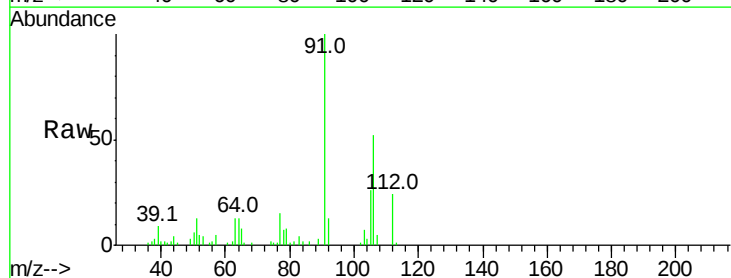
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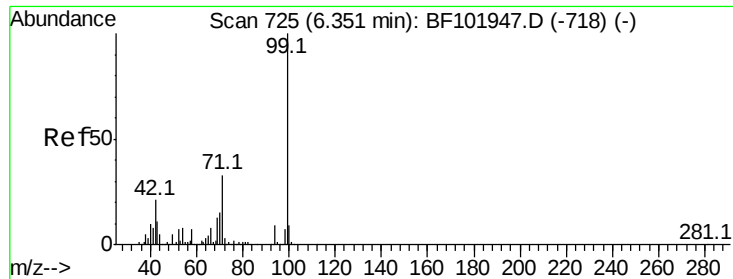


#5

2-Fluorophenol
Concen: 0.448 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.9	47.9	71.9
63	53.9	23.7	35.5





#7

Phenol-d6

Concen: 0.460 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Instrument :

BNA_F

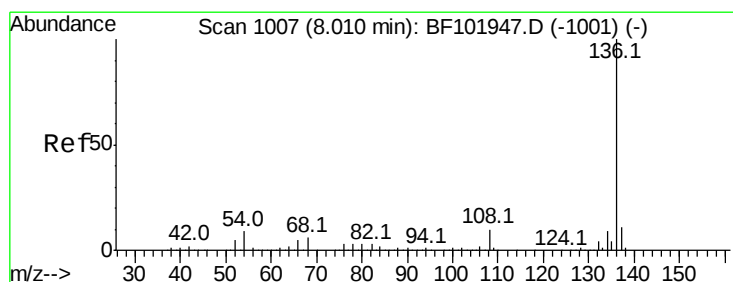
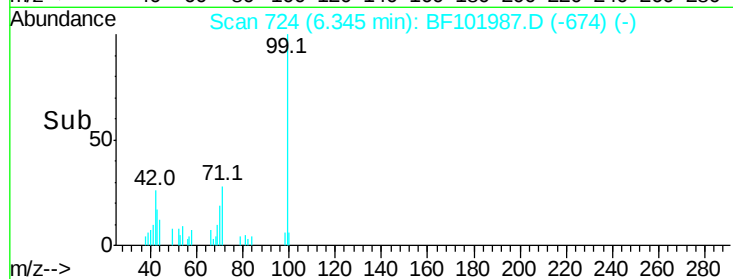
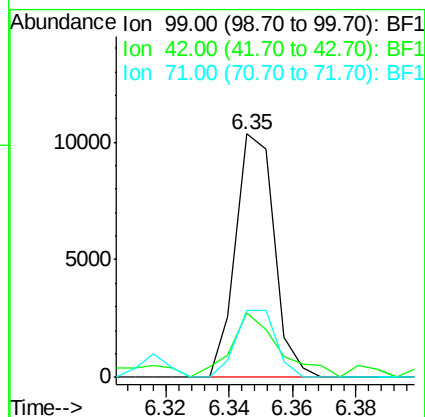
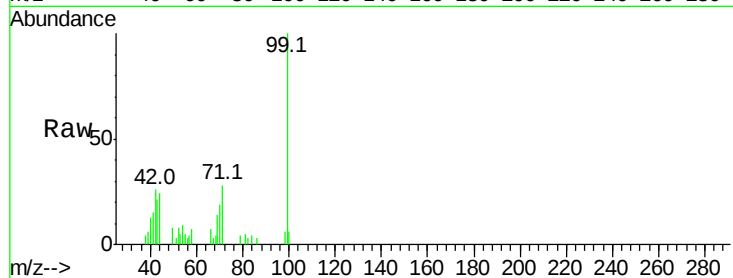
ClientSampleId :

WC-12R12-01

Tot Ion:	99	Resp:	8723
Ion	Ratio	Lower	Upper
99	100		
42	26.3	14.5	21.7#
71	27.8	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

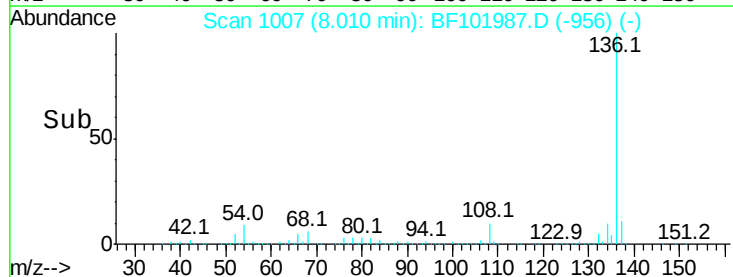
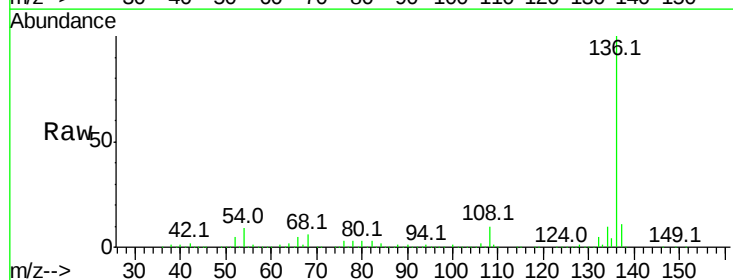
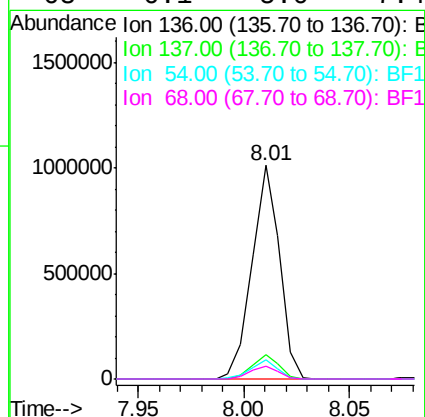
RT: 8.01 min Scan# 1007

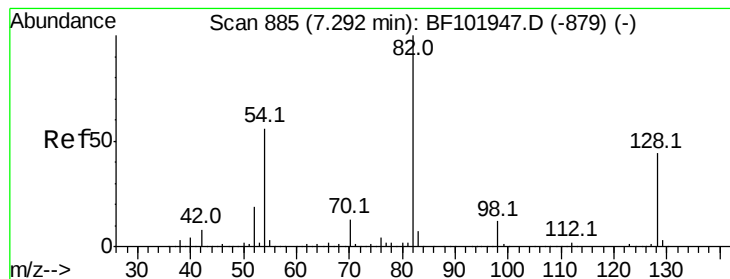
Delta R.T. 0.00 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Tgt Ion:	136	Resp:	920120
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	9.0	6.6	9.8
68	6.1	5.0	7.4





#23

Nitrobenzene-d5

Concen: 0.376 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Instrument :

BNA_F

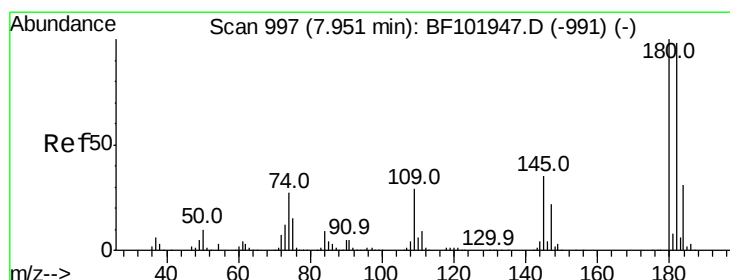
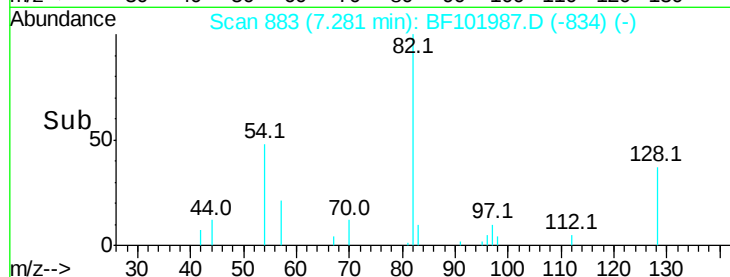
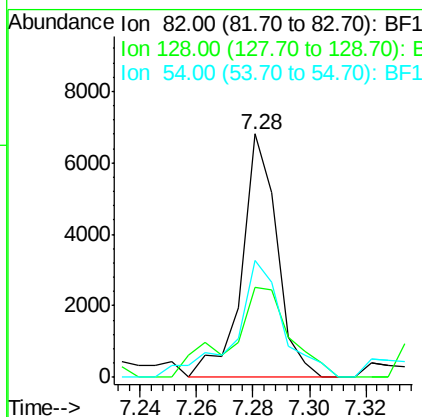
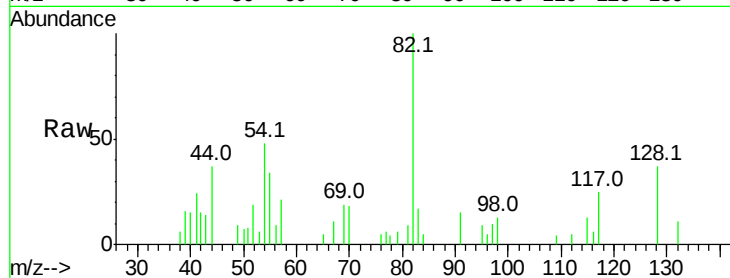
ClientSampleId :

WC-12R12-01

Tot Ion:	82	Resp:	5885
Ion Ratio	Lower	Upper	
82	100		
128	37.2	36.1	54.1
54	48.2	41.4	62.2

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#30

1,2,4-Trichlorobenzene

Concen: 3.170 ng

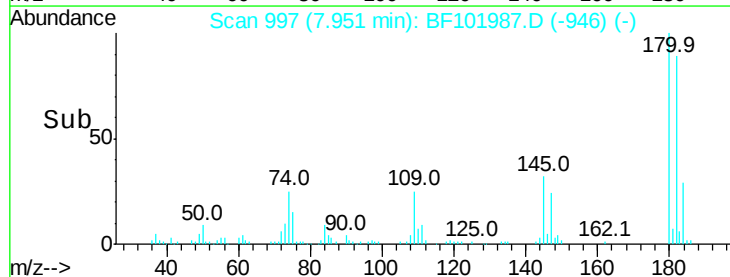
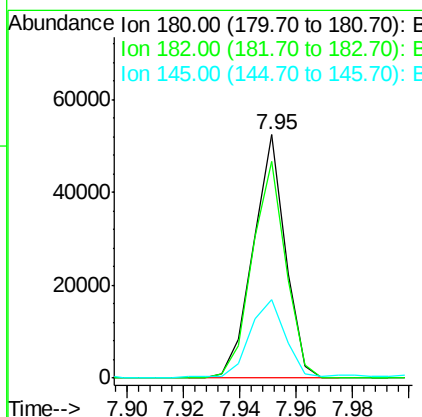
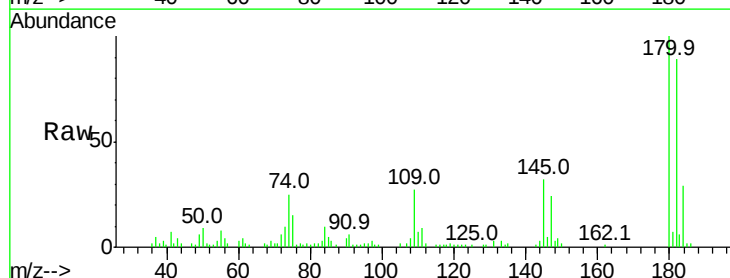
RT: 7.95 min Scan# 997

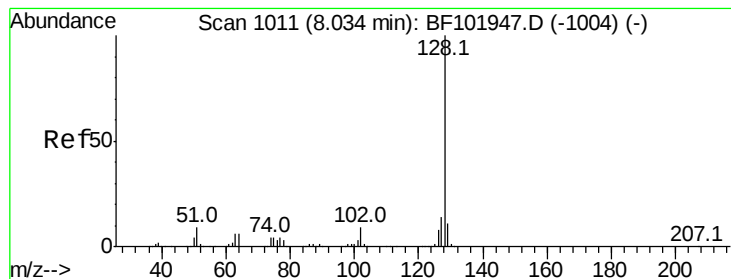
Delta R.T. 0.00 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Tgt Ion:	180	Resp:	41410
Ion Ratio	Lower	Upper	
180	100		
182	89.2	76.8	115.2
145	32.4	26.5	39.7





#31

Naphthalene

Concen: 54.217 ng

RT: 8.03 min Scan# 1011

Delta R.T. 0.00 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Instrument :

BNA_F

ClientSampleId :

WC-12R12-01

Tot Ion:128 Resp: 2492747

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

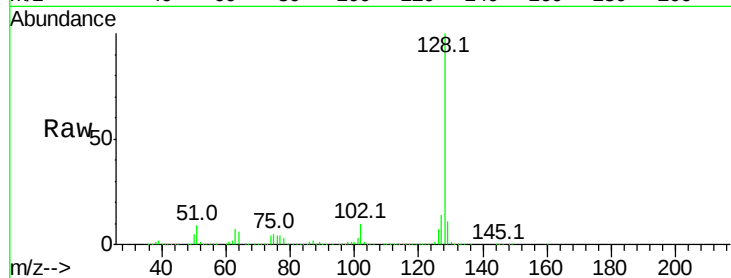
127 14.2 10.9 16.3

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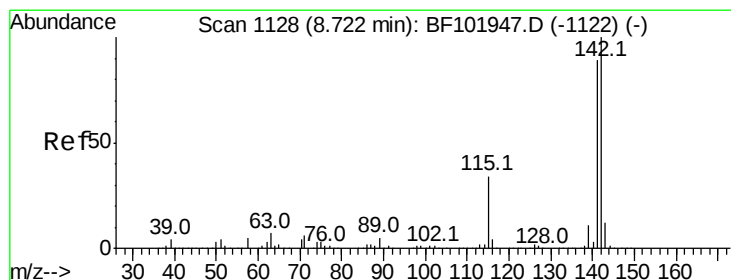
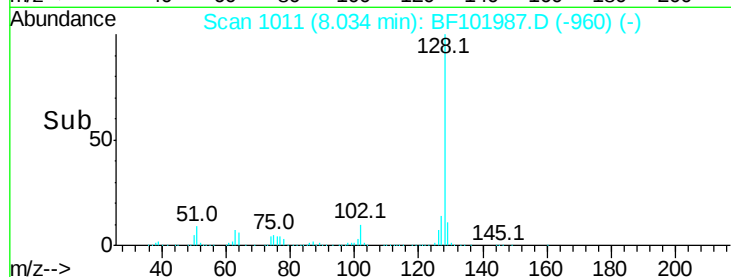
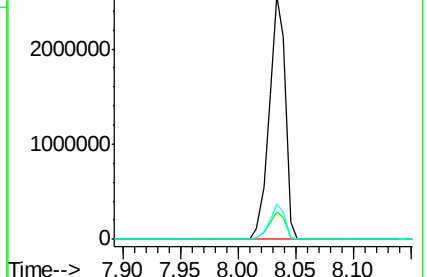
1/11/2018 10:52:49 AM



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: 22.776 ng

RT: 8.72 min Scan# 1128

Delta R.T. 0.00 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

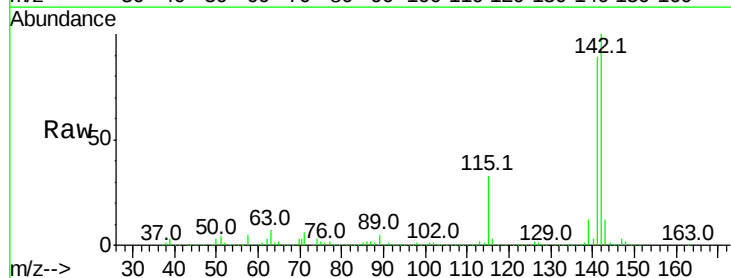
Tgt Ion:142 Resp: 689393

Ion Ratio Lower Upper

142 100

141 88.8 70.8 106.2

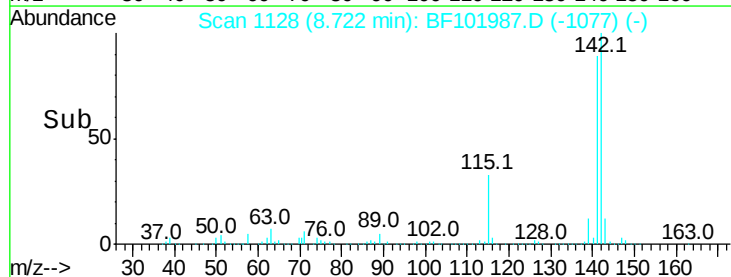
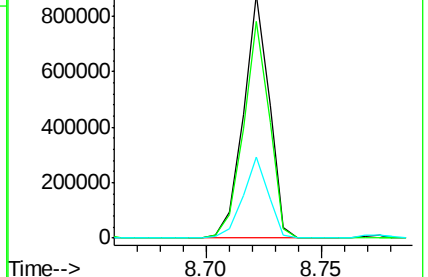
115 33.1 26.1 39.1

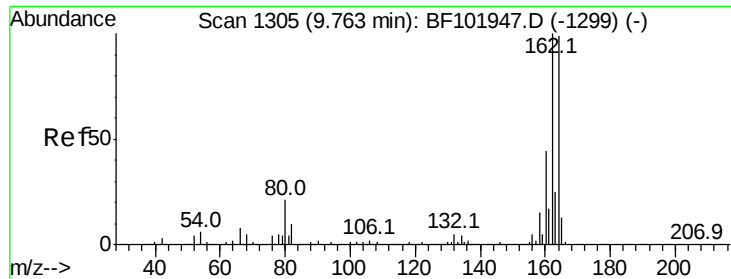


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





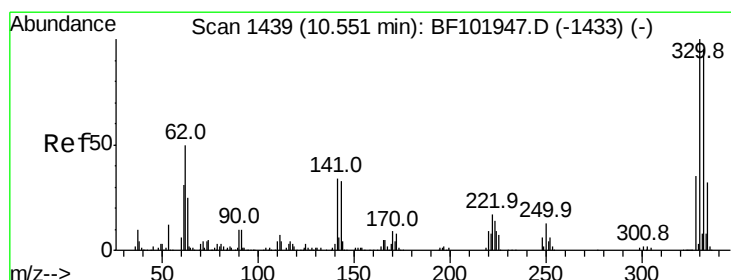
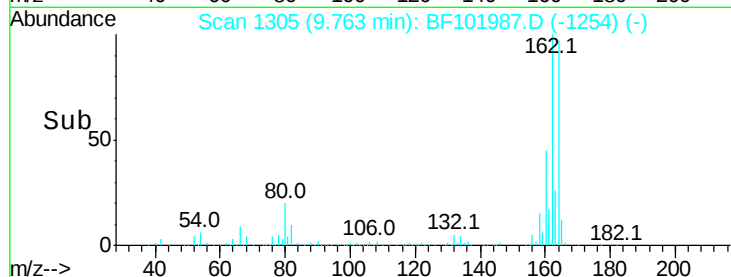
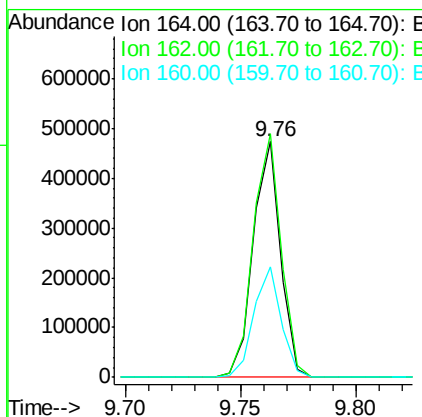
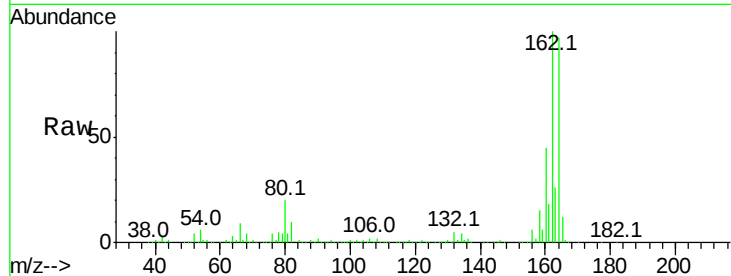
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

Tot Ion	Ratio	Resp	Lower	Upper
164	100	391834		
162	103.4	86.1	129.1	
160	46.8	38.3	57.5	

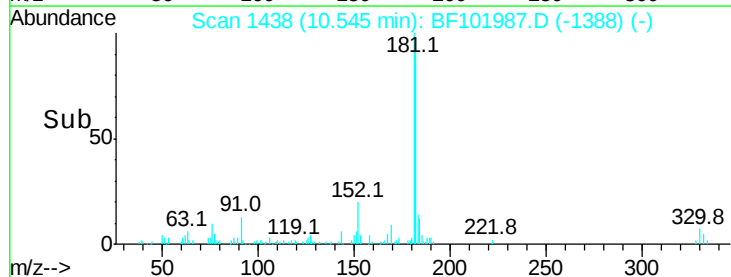
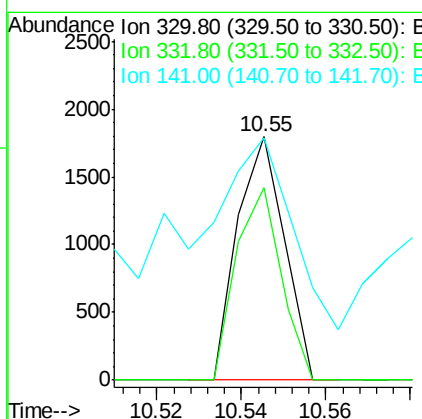
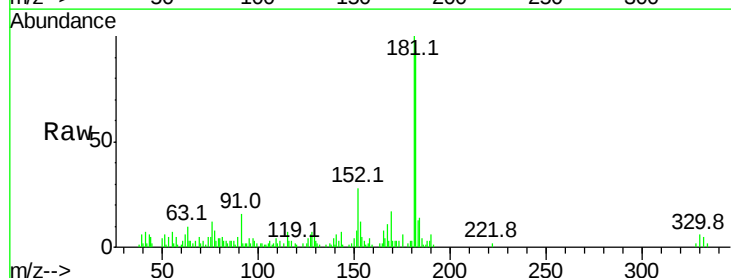
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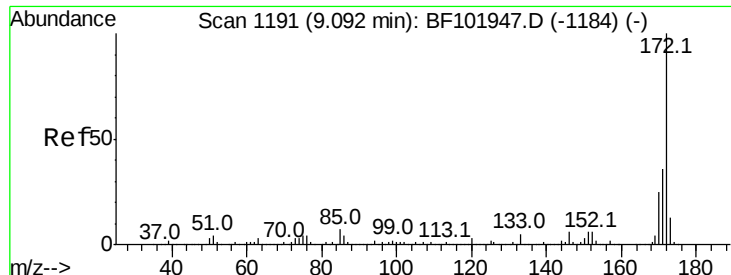
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#41
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 10.55 min Scan# 1438
Delta R.T. -0.01 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	1382		
332	75.8	77.0	115.6#	
141	153.0	29.9	44.9#	





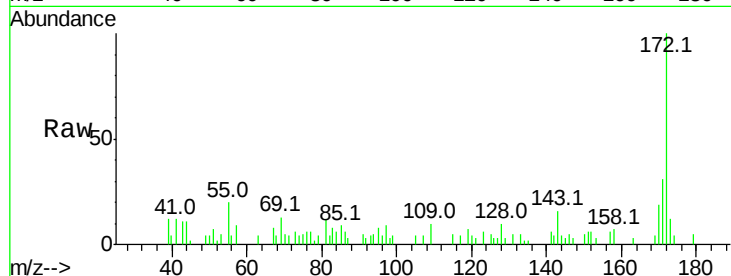
#44
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

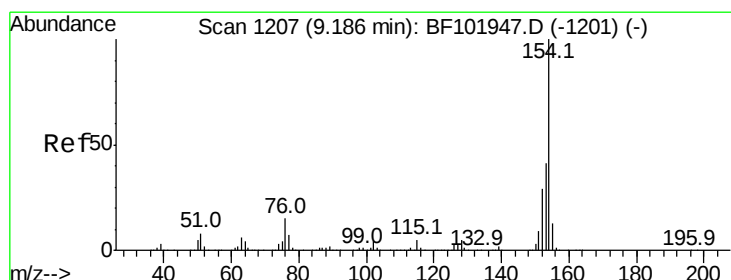
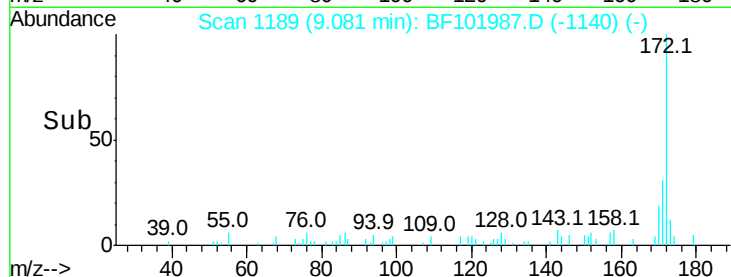
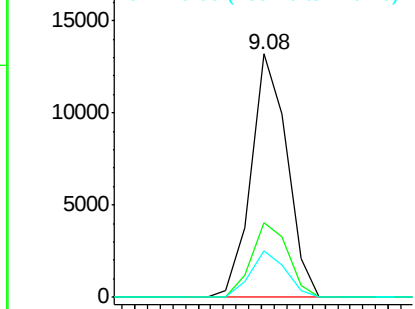
Tot Ion	Ratio	Lower	Upper
172	100		
171	30.5	29.7	44.5
170	18.8	19.6	29.4

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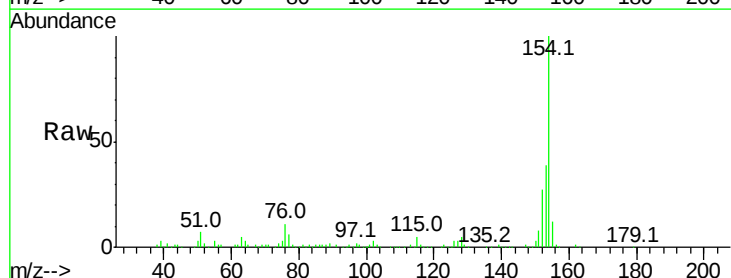


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

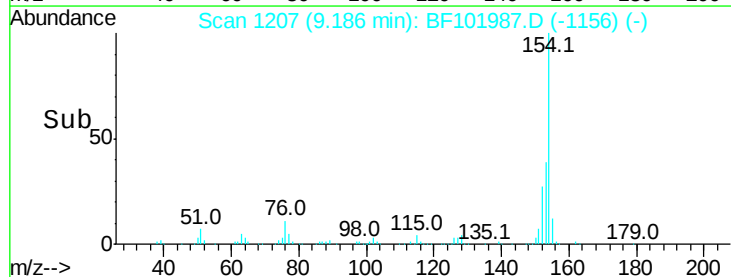
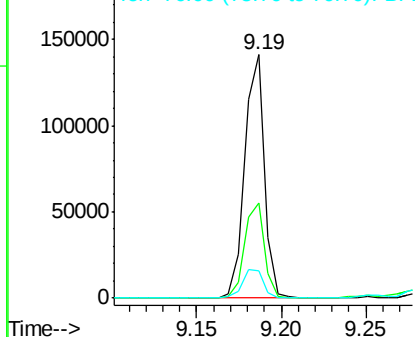


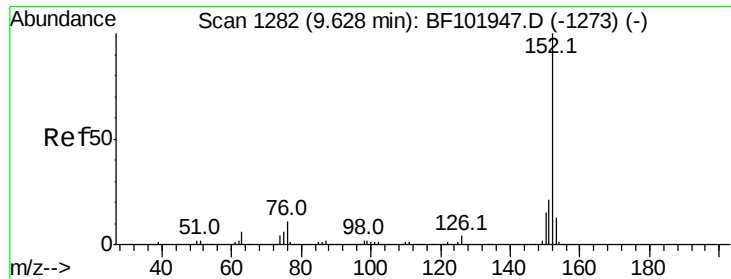
#45
1,1'-Biphenyl
Concen: 3.311 ng
RT: 9.19 min Scan# 1207
Delta R.T. 0.00 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.3	21.3	61.3
76	11.1	0.0	34.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1





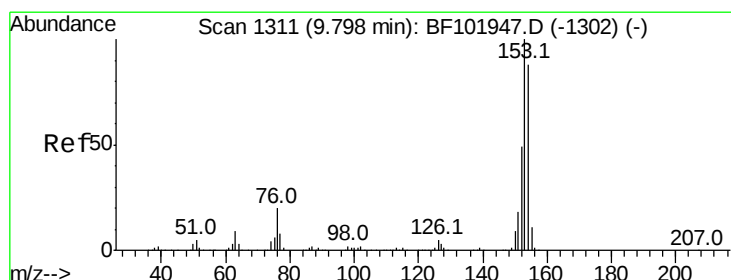
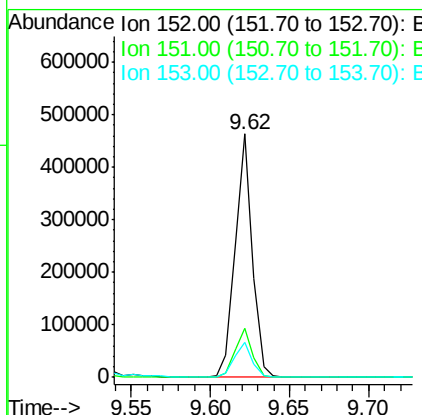
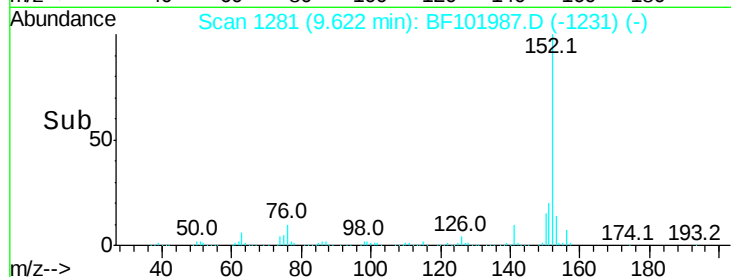
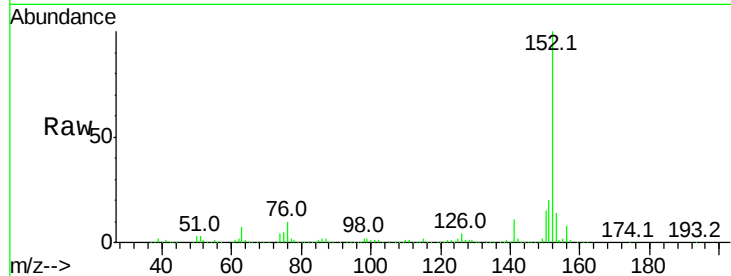
#48
Acenaphthylene
Concen: 8.211 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

Tot Ion	Ratio	Resp	Lower	Upper
152	100	349963		
151	20.1	16.3	24.5	
153	14.1	10.7	16.1	

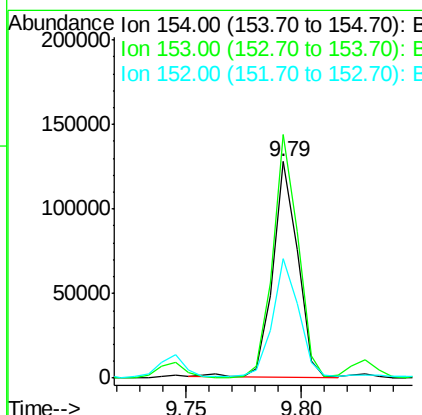
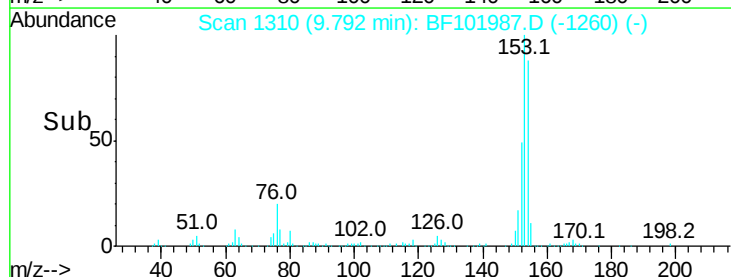
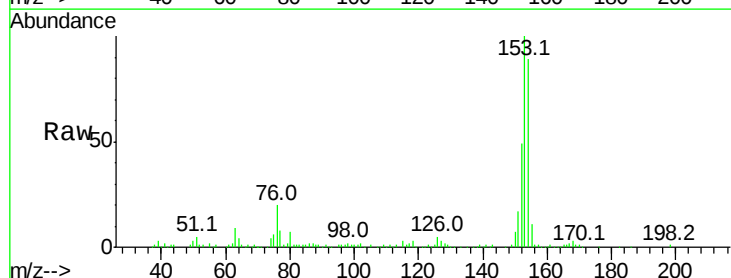
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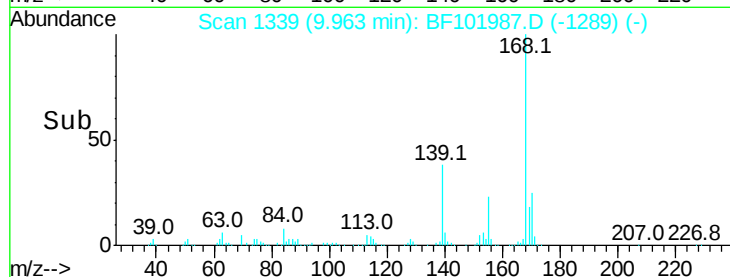
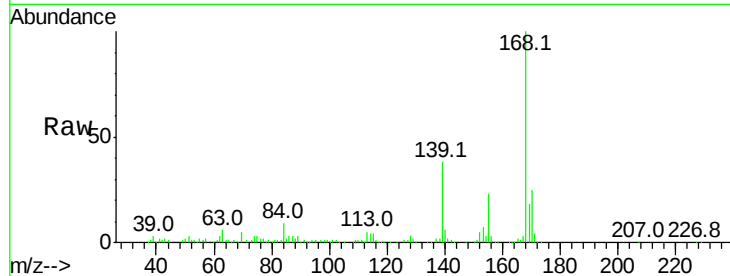
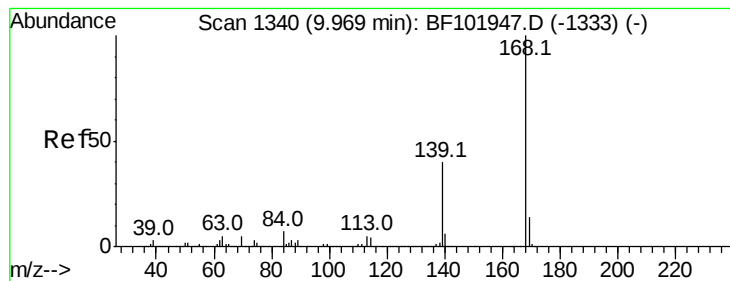
Sohil
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#51
Acenaphthene
Concen: 3.677 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	95117		
153	112.4	91.2	136.8	
152	55.4	43.8	65.8	





#54

Dibenzofuran

Concen: 3.618 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Tot Ion:	168	Resp:	128450
Ion Ratio	Lower	Upper	
168	100		
139	38.3	30.1	45.1
169	17.5	10.9	16.3

Instrument :

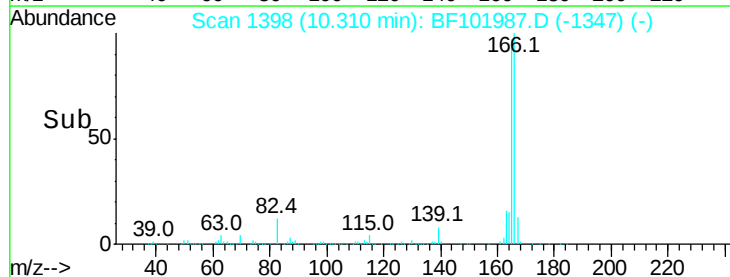
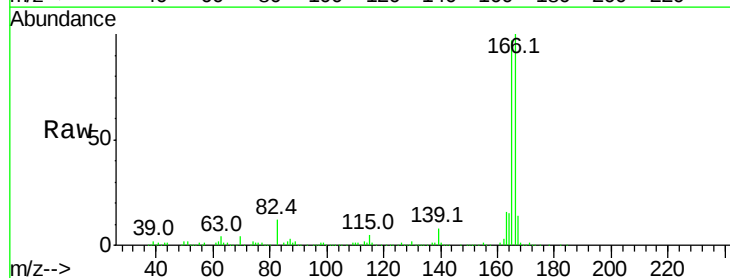
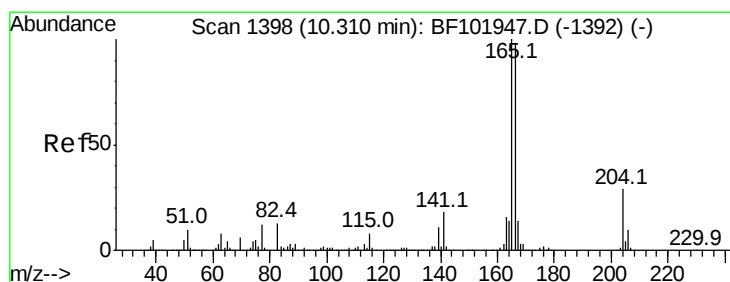
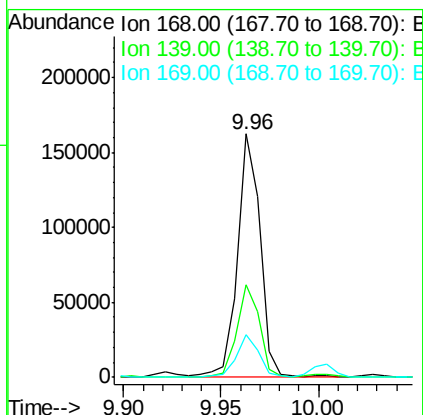
BNA_F

ClientSampleId :

WC-12R12-01

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#57

Fluorene

Concen: 11.171 ng

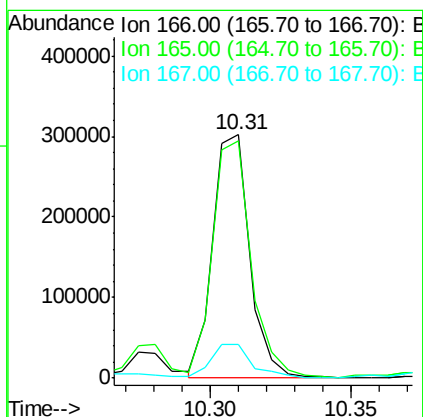
RT: 10.31 min Scan# 1398

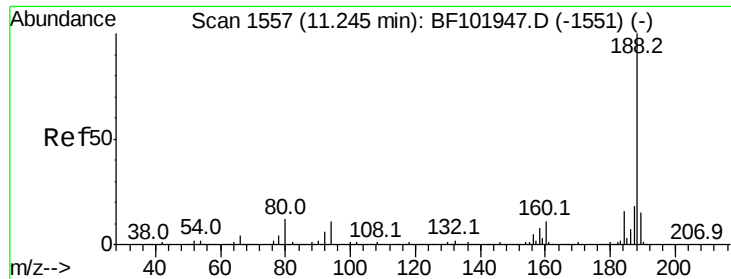
Delta R.T. 0.00 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Tgt Ion:	166	Resp:	274180
Ion Ratio	Lower	Upper	
166	100		
165	97.5	79.8	119.8
167	13.6	10.6	16.0





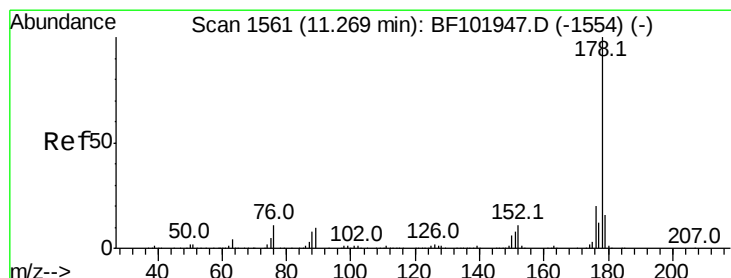
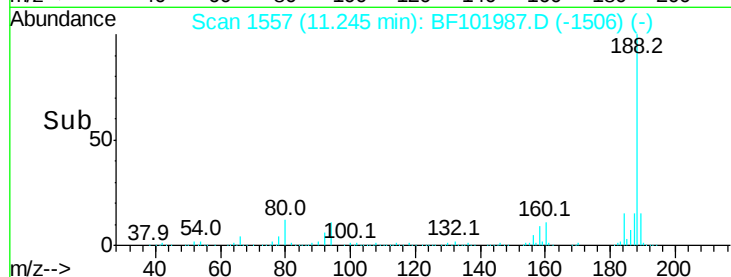
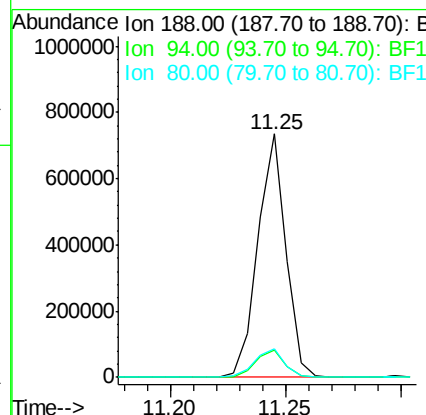
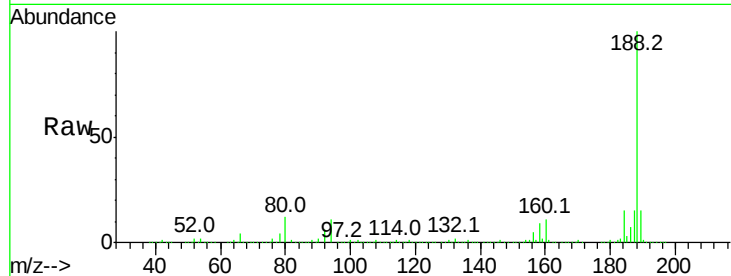
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1557
Delta R.T. 0.00 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.4	8.5	12.7
80	12.0	9.2	13.8

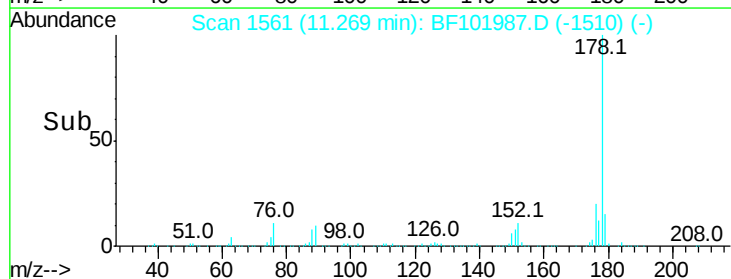
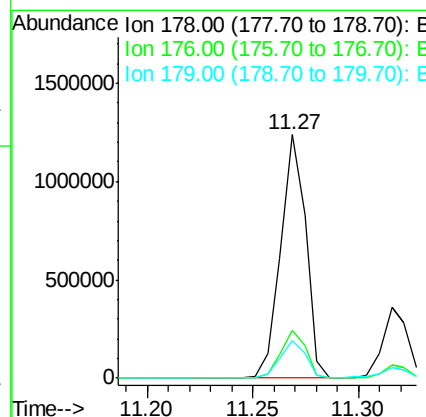
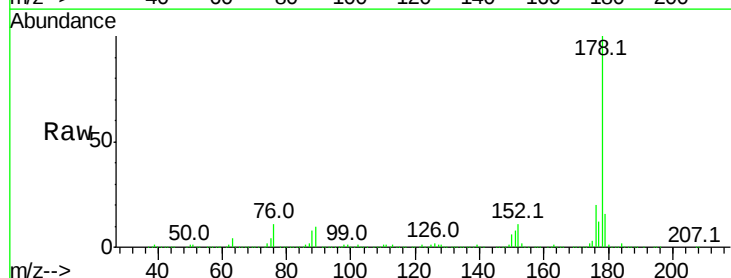
Manual Integrations
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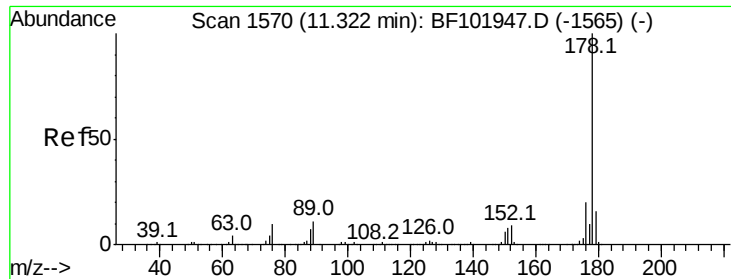
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#70
Phenanthrene
Concen: 28.125 ng
RT: 11.27 min Scan# 1561
Delta R.T. 0.00 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.7	13.0	19.6





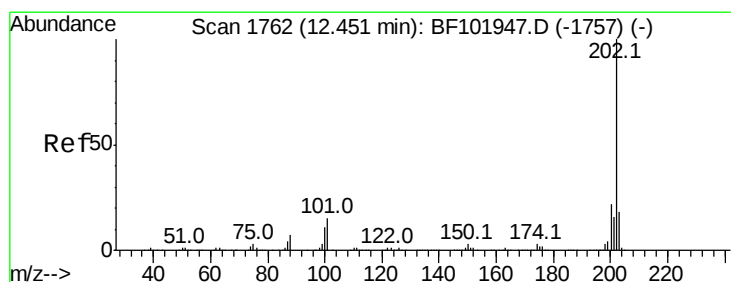
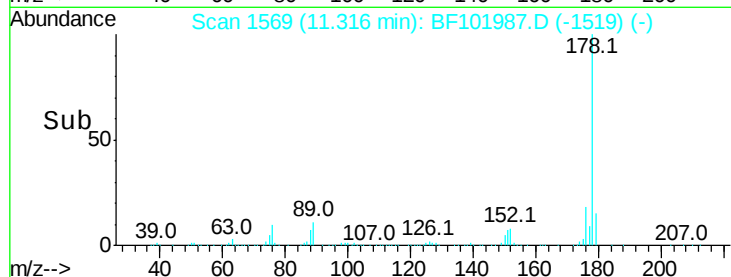
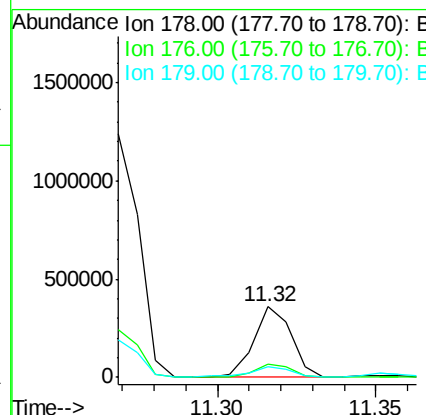
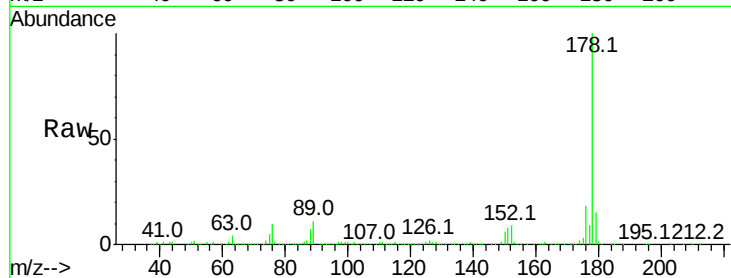
#71
 Anthracene
 Concen: 7.920 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF101987.D
 Acq: 10 Jan 2018 19:03

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.2
179	15.4	12.6	19.0

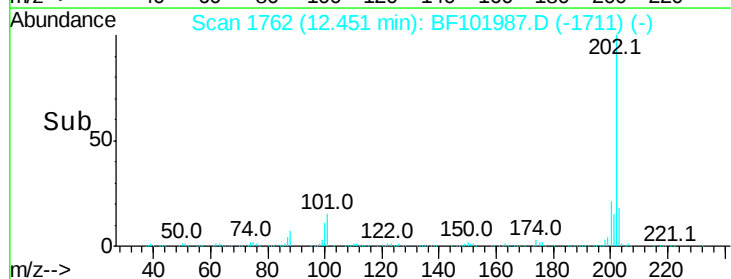
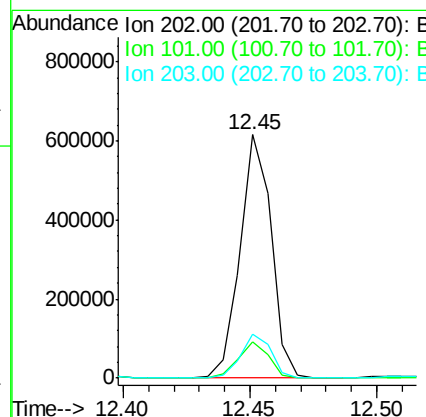
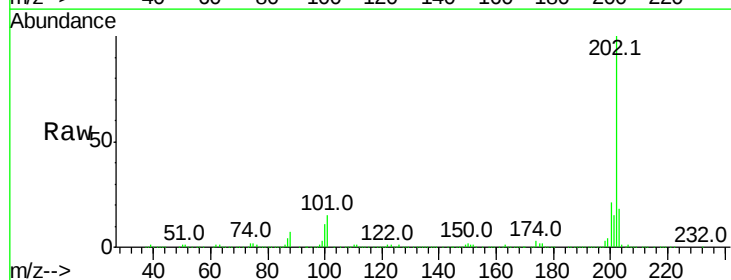
Manual Integrations
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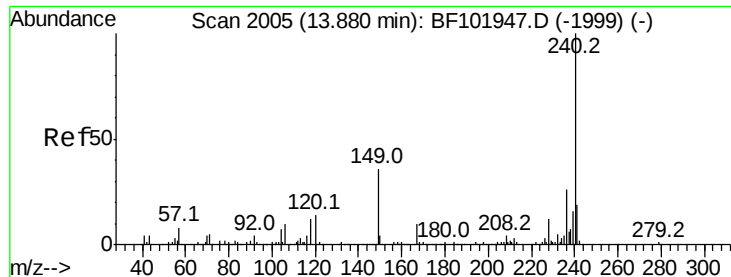
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#74
 Fluoranthene
 Concen: 14.644 ng
 RT: 12.45 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: BF101987.D
 Acq: 10 Jan 2018 19:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	34.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Instrument :

BNA_F

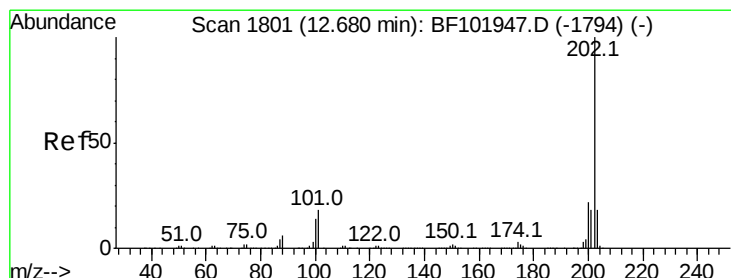
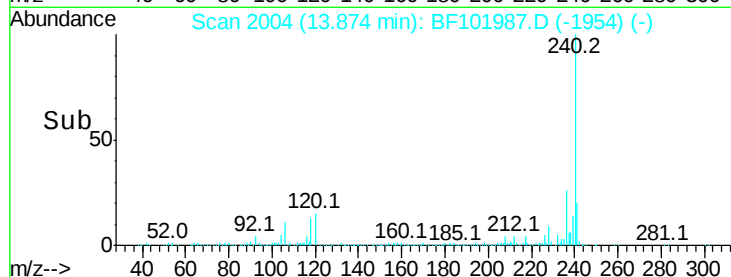
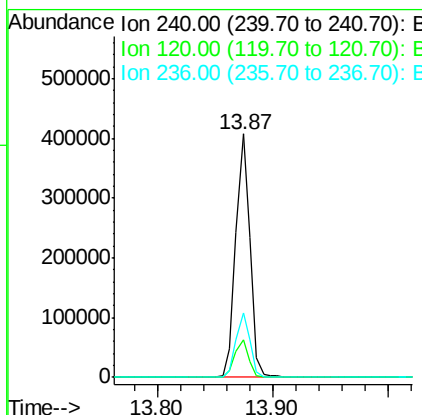
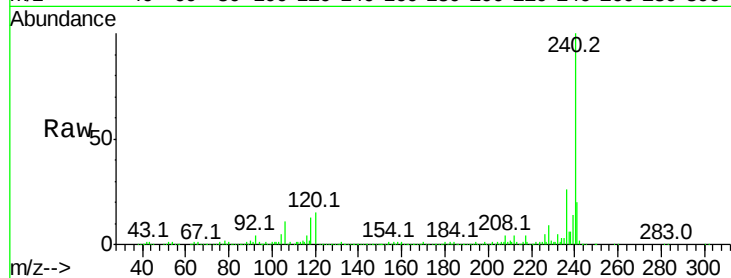
ClientSampleId :

WC-12R12-01

Tot Ion:	240	Resp:	349123
Ion Ratio	Lower	Upper	
240	100		
120	15.3	9.5	14.3#
236	26.3	20.7	31.1

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#77

Pyrene

Concen: 18.059 ng

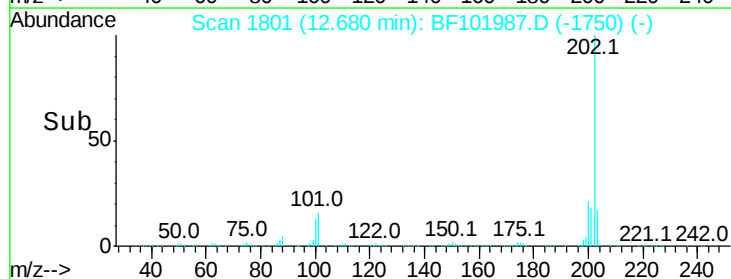
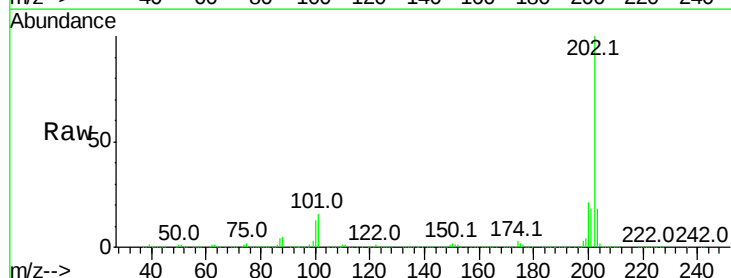
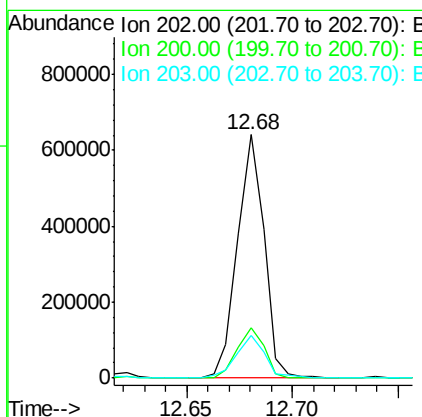
RT: 12.68 min Scan# 1801

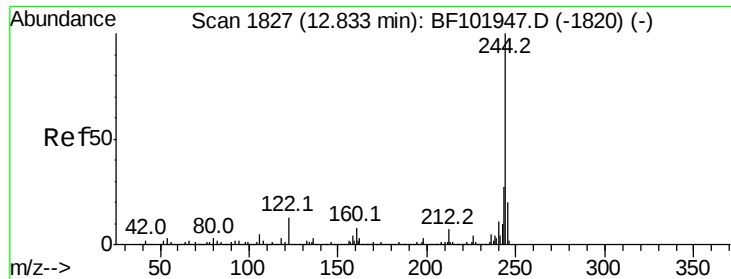
Delta R.T. 0.00 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Tgt Ion:	202	Resp:	557313
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.4	26.2
203	17.7	14.3	21.5





#78

Terphenyl-d14

Concen: 0.463 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Instrument :

BNA_F

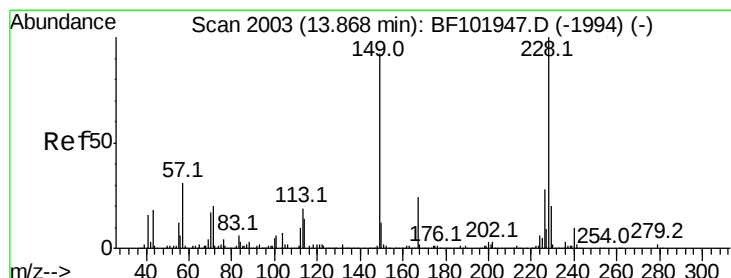
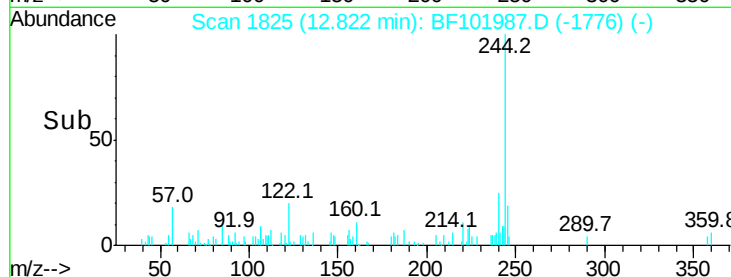
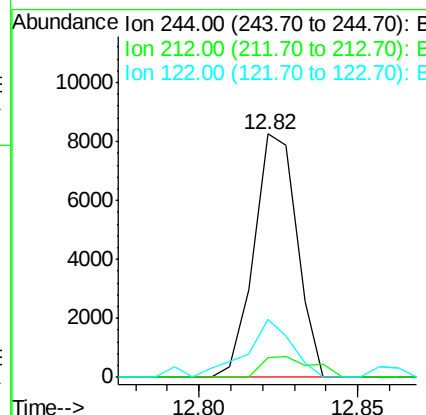
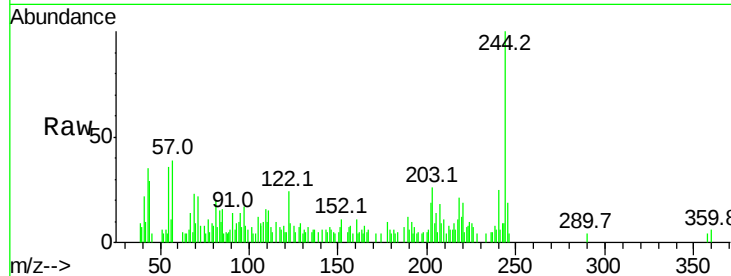
ClientSampleId :

WC-12R12-01

Tot Ion:	244	Resp:	7784
Ion Ratio	Lower	Upper	
244	100		
212	7.9	5.4	8.0
122	23.9	11.0	16.4#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 8.016 ng m

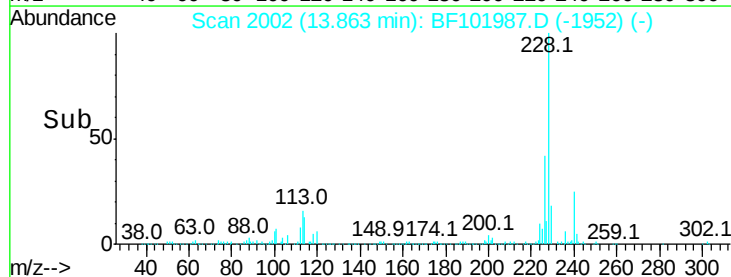
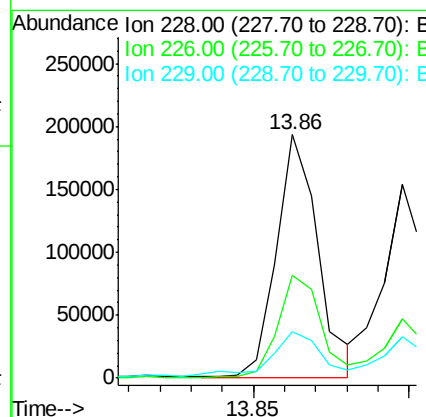
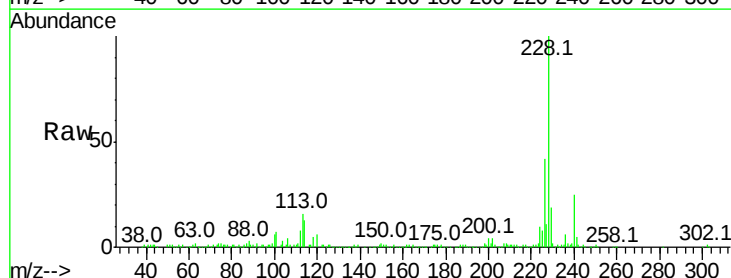
RT: 13.86 min Scan# 2002

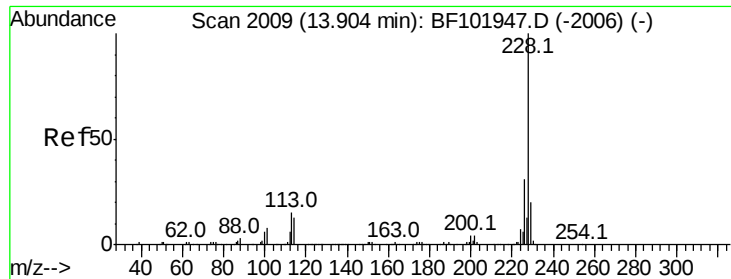
Delta R.T. -0.01 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Tgt Ion:	228	Resp:	178560
Ion Ratio	Lower	Upper	
228	100		
226	42.0	22.6	33.8#
229	19.0	15.8	23.6





#82

Chrysene

Concen: 6.116 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Instrument :

BNA_F

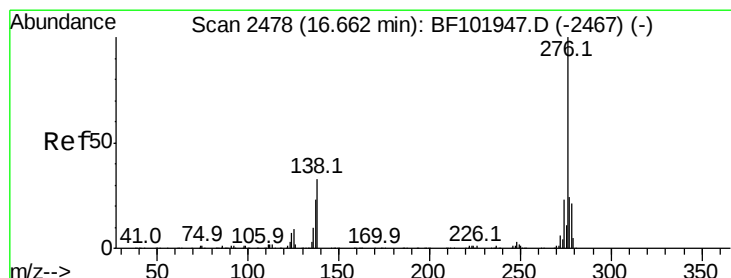
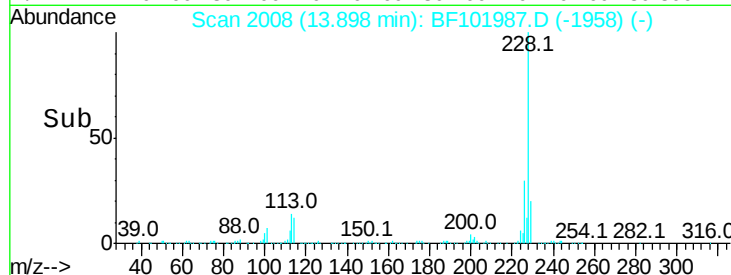
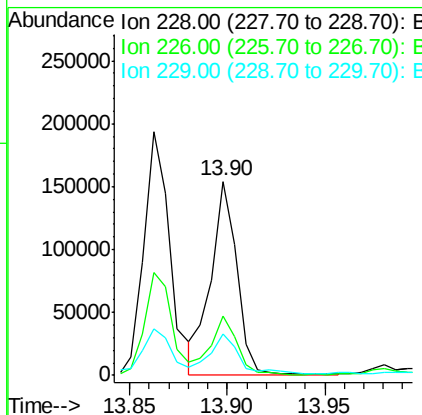
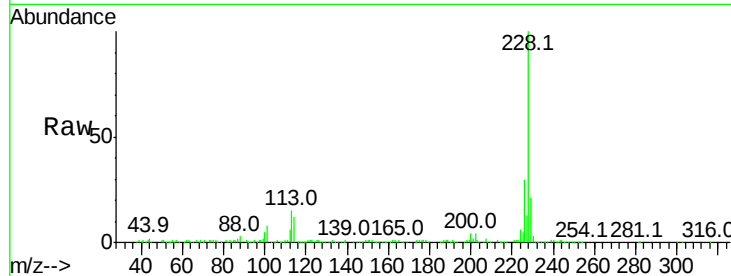
ClientSampled :

WC-12R12-01

Tot Ion:	228	Resp:	142066
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.0	37.6
229	21.5	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 4.826 ng

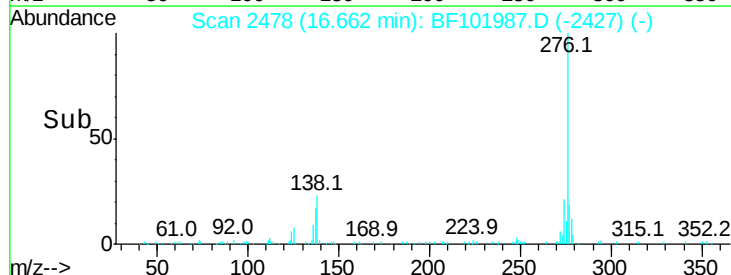
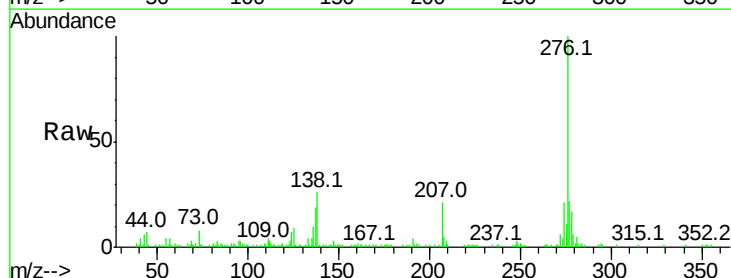
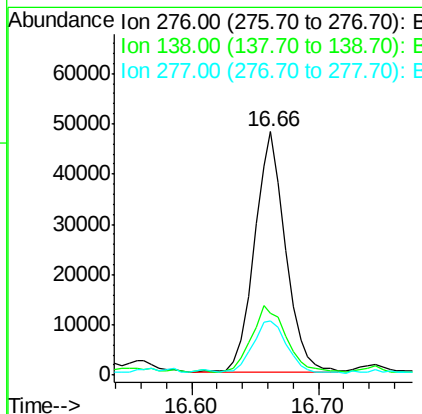
RT: 16.66 min Scan# 2478

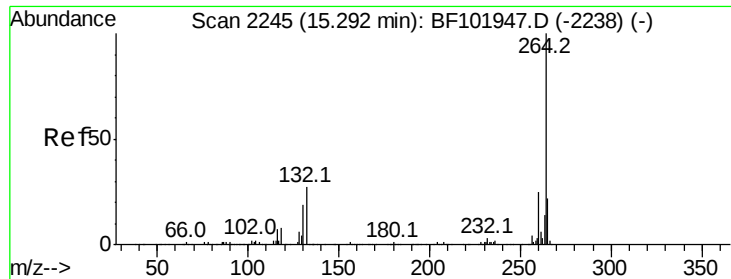
Delta R.T. 0.00 min

Lab File: BF101987.D

Acq: 10 Jan 2018 19:03

Tgt Ion:	276	Resp:	81586
Ion Ratio	Lower	Upper	
276	100		
138	30.7	25.0	37.6
277	23.3	20.1	30.1





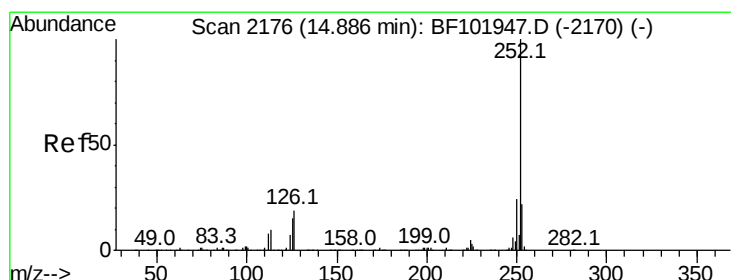
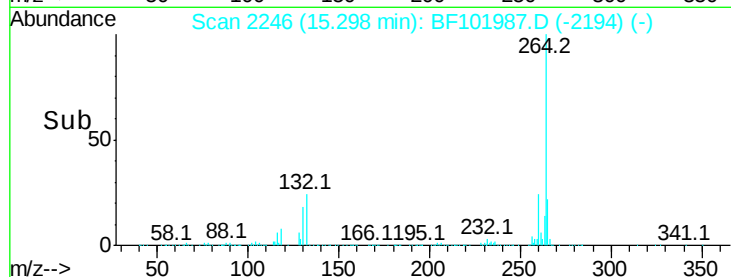
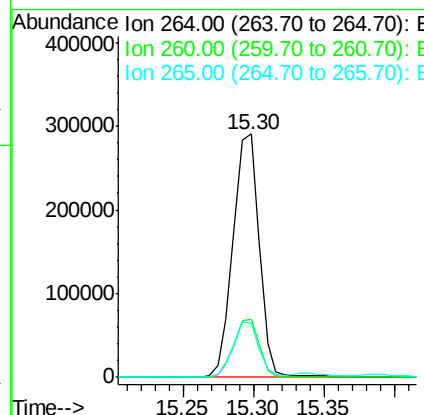
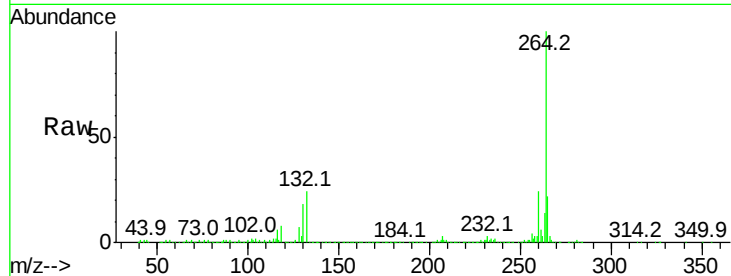
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. 0.01 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	22.3	17.5	26.3

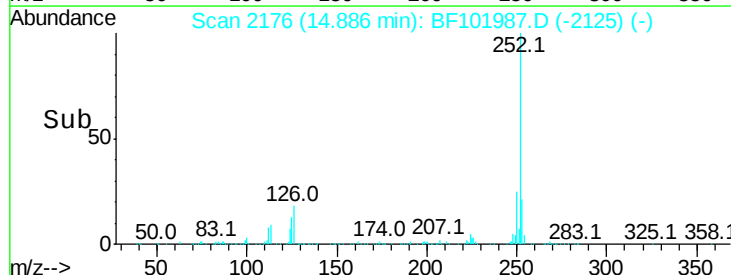
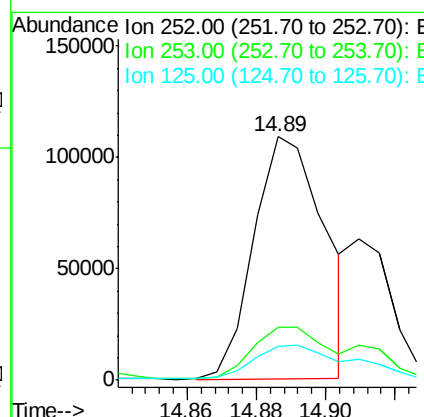
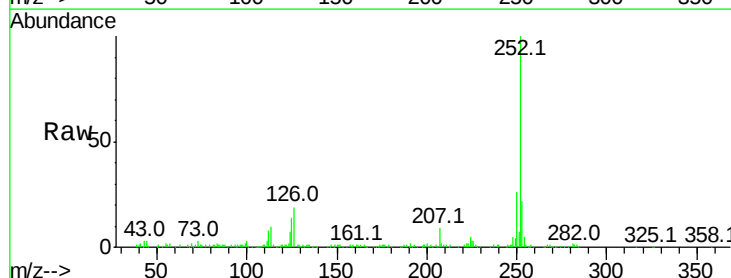
Manual Integrations
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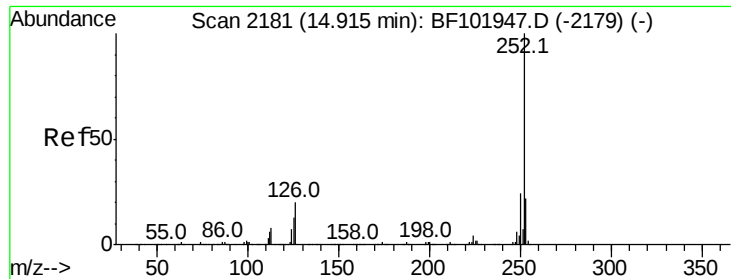
Sohil
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#87
Benzo(b)fluoranthene
Concen: 6.312 ng m
RT: 14.89 min Scan# 2176
Delta R.T. 0.00 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.0	25.6
125	13.7	9.0	13.6#





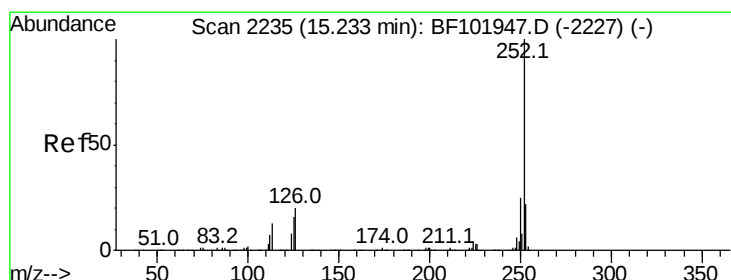
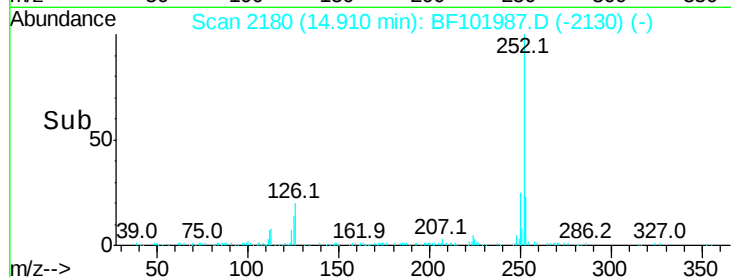
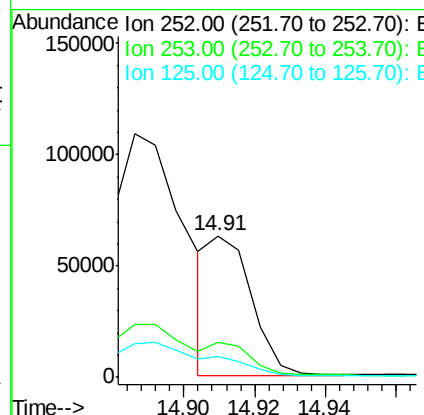
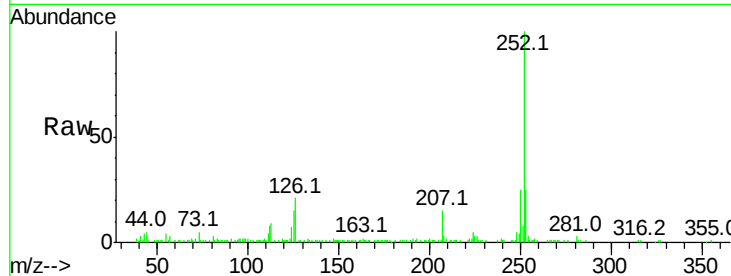
#88
Benzo(k)fluoranthene
Concen: 2.218 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.9	26.9
125	14.9	10.2	15.2

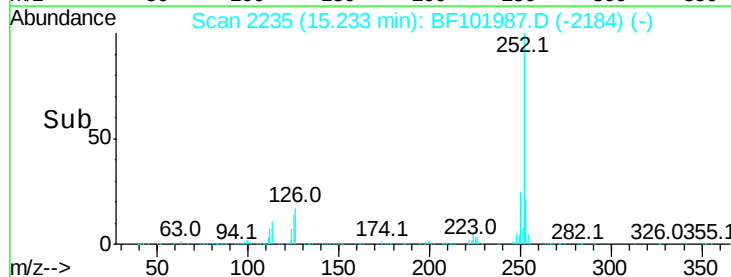
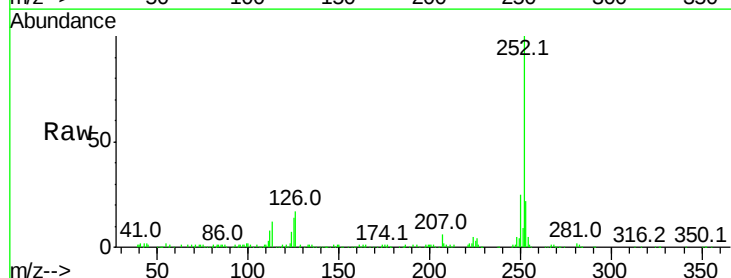
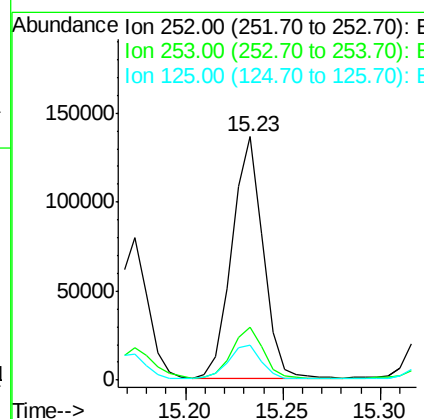
Manual Integrations
APPROVED

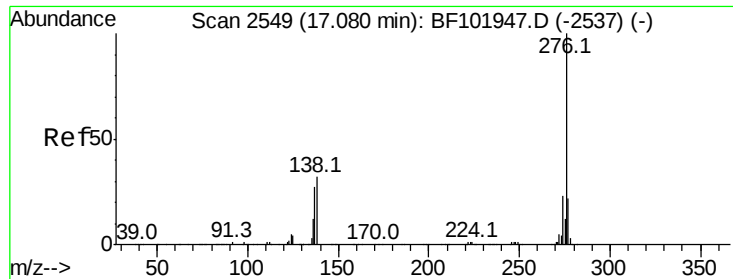
Sohil
1/11/2018 10:52:49 AM



#89
Benzo(a)pyrene
Concen: 6.784 ng
RT: 15.23 min Scan# 2235
Delta R.T. 0.00 min
Lab File: BF101987.D
Acq: 10 Jan 2018 19:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	14.4	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 4.685 ng
 RT: 17.07 min Scan# 2548
 Delta R.T. -0.01 min
 Lab File: BF101987.D
 Acq: 10 Jan 2018 19:03

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-01

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.4	17.9	26.9
138	30.8	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 1/11/2018 10:52:49 AM

