

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101989.D
 Acq On : 10 Jan 2018 19:56
 Operator : SJ/JU
 Sample : J1076-06 50X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-01

Manual Integrations
 APPROVED

Sohil
 1/11/2018 10:52:54 AM

Quant Time: Jan 11 03:51:38 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	211520	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	883901	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	368489	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	594979	20.00	ng	0.00
75) Chrysene-d12	13.87	240	337666	20.00	ng	0.00
86) Perylene-d12	15.29	264	370374	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	4141	0.28	ng	0.00
7) Phenol-d6	6.35	99	5257	0.29	ng	0.00
23) Nitrobenzene-d5	7.28	82	3179	0.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	698	0.22	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	5762	0.24	ng	-0.01
78) Terphenyl-d14	12.82	244	5505	0.34	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.03	128	2556736	57.888	ng	99
37) 2-Methylnaphthalene	8.72	142	578869	19.909	ng	100
45) 1,1'-Biphenyl	9.19	154	138842	4.263	ng	94
48) Acenaphthylene	9.62	152	407593	10.169	ng	99
51) Acenaphthene	9.79	154	166967	6.863	ng	99
54) Dibenzofuran	9.96	168	191044	5.722	ng	98
57) Fluorene	10.31	166	349497	15.142	ng	100
70) Phenanthrene	11.27	178	1273406	36.640	ng	99
71) Anthracene	11.32	178	435694	12.361	ng	99
72) Carbazole	11.47	167	91263	2.634	ng	98
74) Fluoranthene	12.45	202	623105	18.223	ng	99
77) Pyrene	12.68	202	676826	22.676	ng	98
80) Benzo(a)anthracene	13.86	228	214177m	9.941	ng	
82) Chrysene	13.90	228	180833	8.050	ng	98
85) Indeno(1,2,3-cd)pyrene	16.66	276	102055	6.242	ng	98
87) Benzo(b)fluoranthene	14.89	252	192033m	7.952	ng	
88) Benzo(k)fluoranthene	14.91	252	64296m	2.760	ng	
89) Benzo(a)pyrene	15.23	252	193951	8.925	ng	# 94
91) Benzo(a,h,i)perylene	17.07	276	106655	6.105	ng	95

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

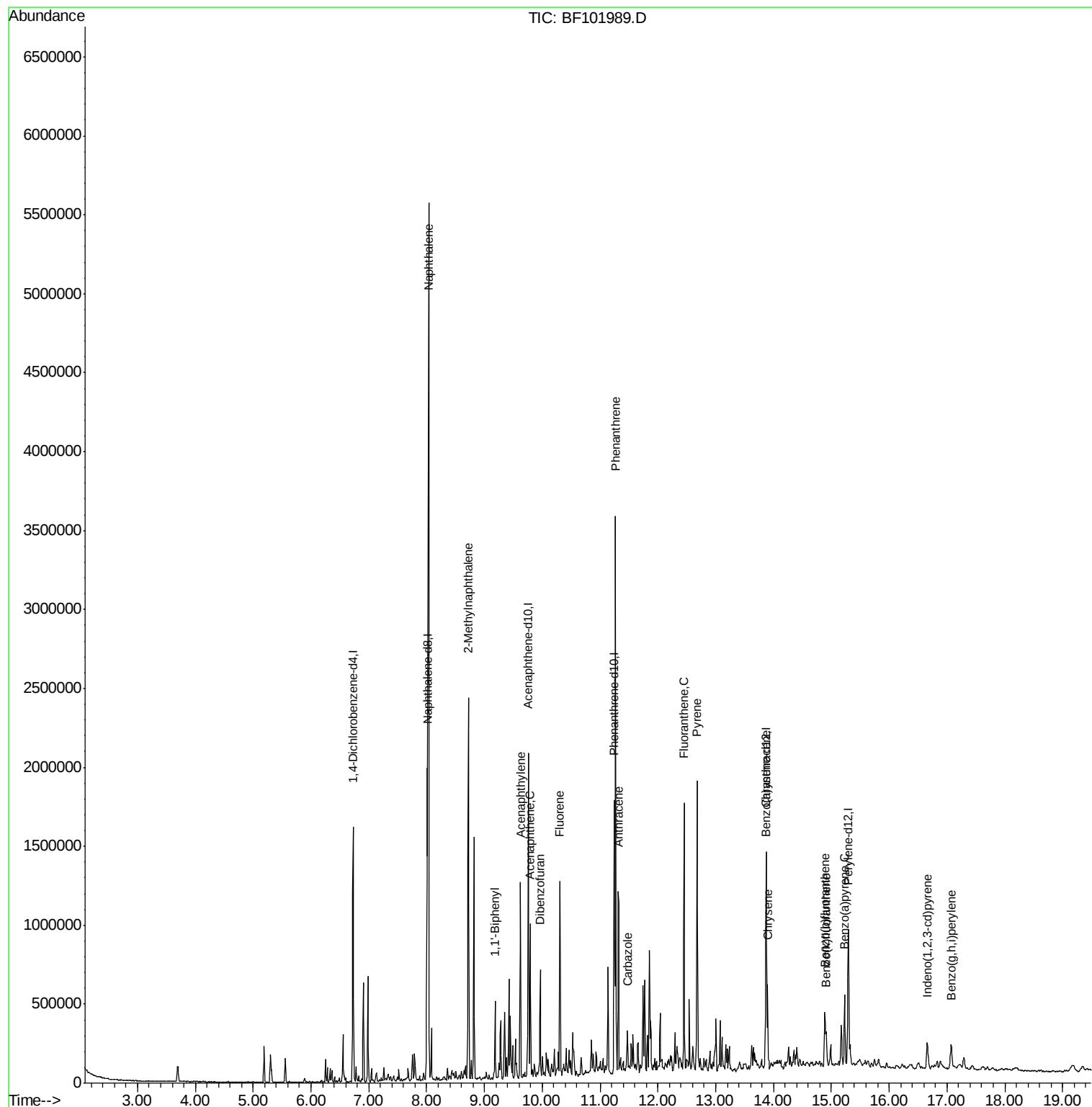
Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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ALS Vial : 10 Sample Multiplier: 1

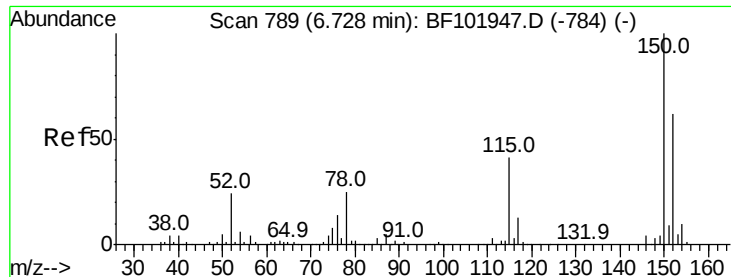
Instrument :
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ClientSampleId :
WC-14R30-01

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#1

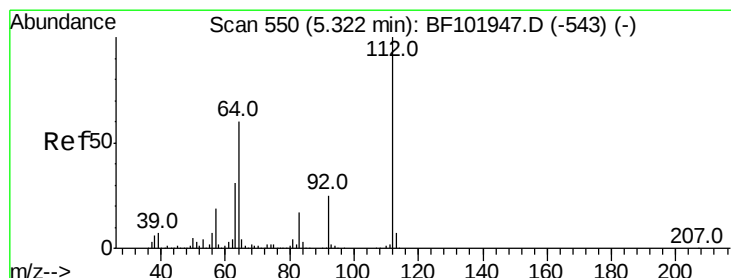
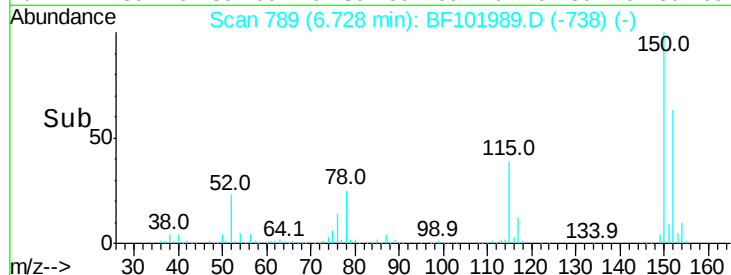
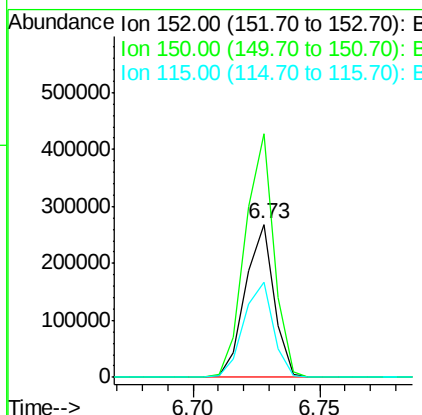
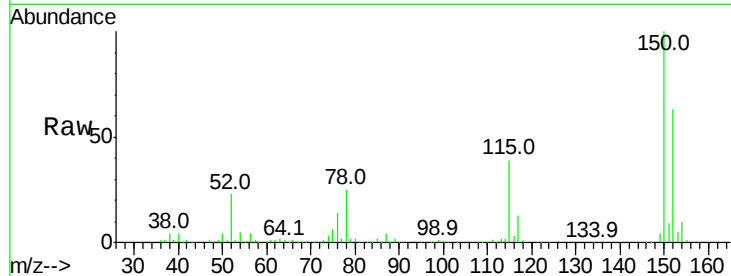
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. 0.00 min
Lab File: BF101989.D
Acq: 10 Jan 2018 19:56

Instrument :
BNA_F
ClientSampleId :
WC-14R30-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	124.6	186.8
115	62.3	50.1	75.1

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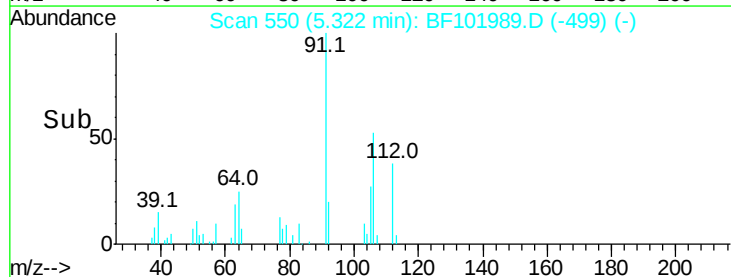
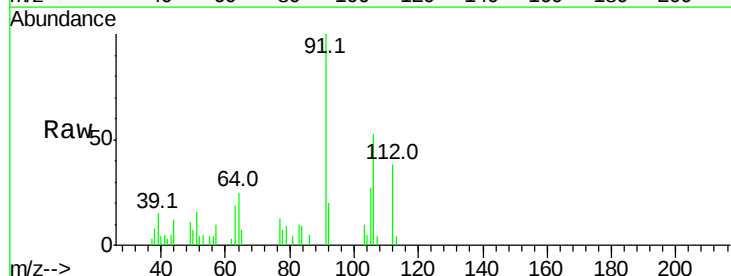
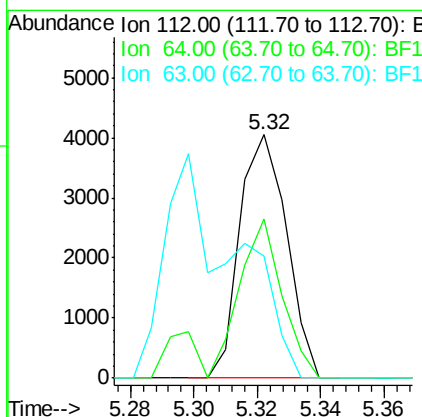
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#5

2-Fluorophenol
Concen: 0.276 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF101989.D
Acq: 10 Jan 2018 19:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.4	47.9	71.9
63	49.9	23.7	35.5#





#7

Phenol-d6

Concen: 0.294 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

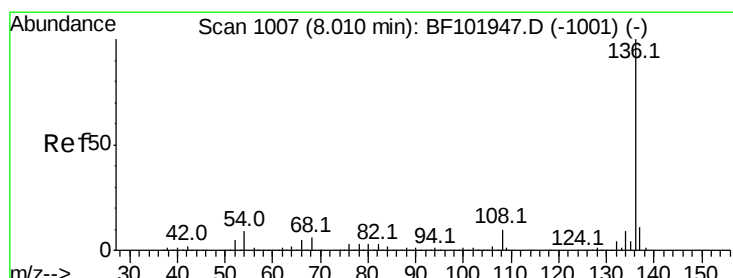
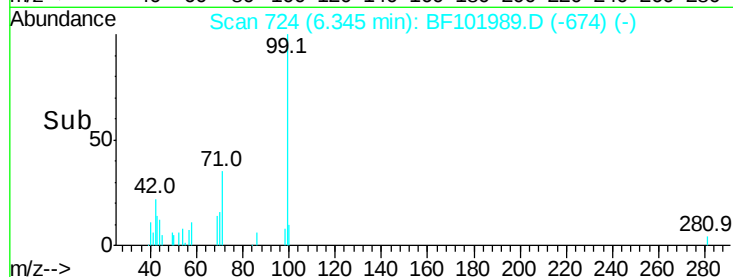
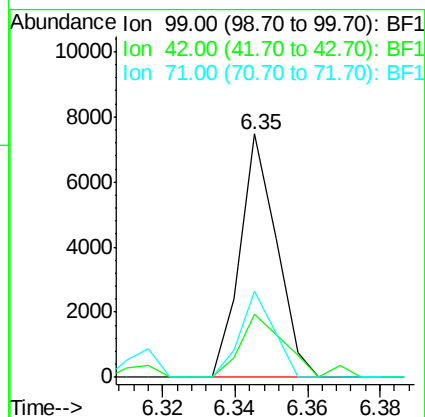
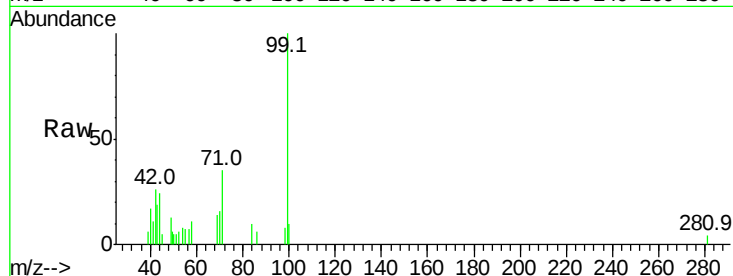
ClientSampleId :

WC-14R30-01

Tot Ion:	99	Resp:	5257
Ion	Ratio	Lower	Upper
99	100		
42	25.7	14.5	21.7#
71	35.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

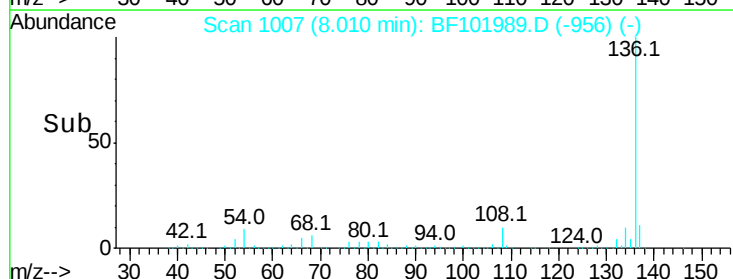
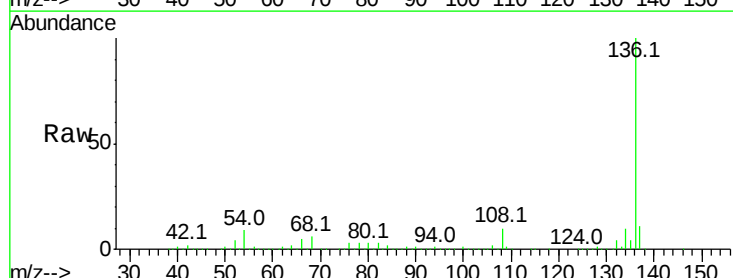
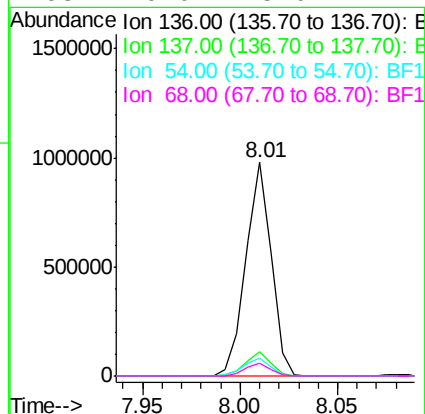
RT: 8.01 min Scan# 1007

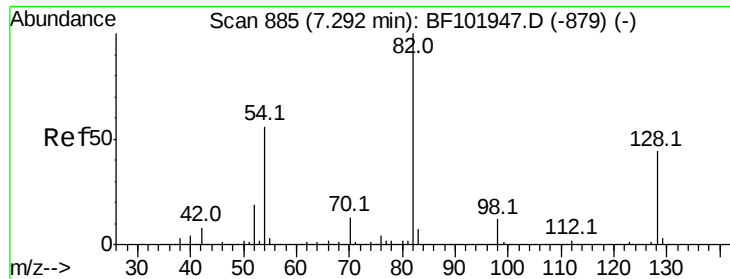
Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Tgt Ion:	136	Resp:	883901
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.6	6.6	9.8
68	6.0	5.0	7.4





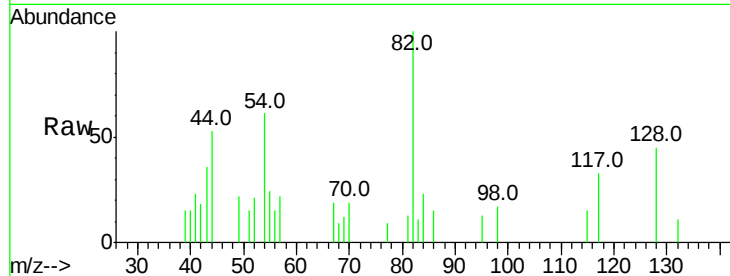
#23
Nitrobenzene-d5
Concen: 0.211 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF101989.D
Acq: 10 Jan 2018 19:56

Instrument :
BNA_F
ClientSampleId :
WC-14R30-01

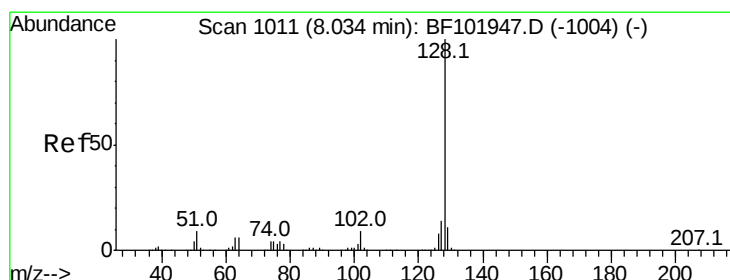
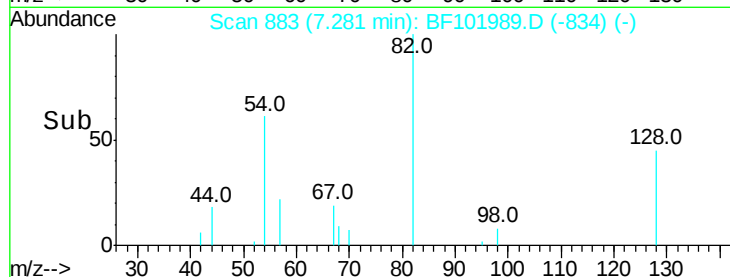
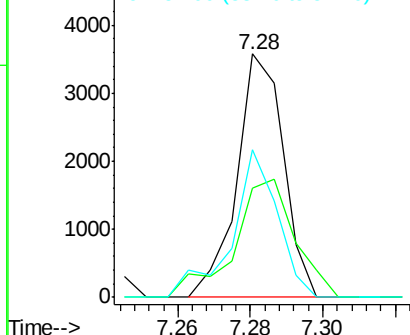
Tot Ion	Ratio	Lower	Upper
82	100		
128	44.8	36.1	54.1
54	60.7	41.4	62.2

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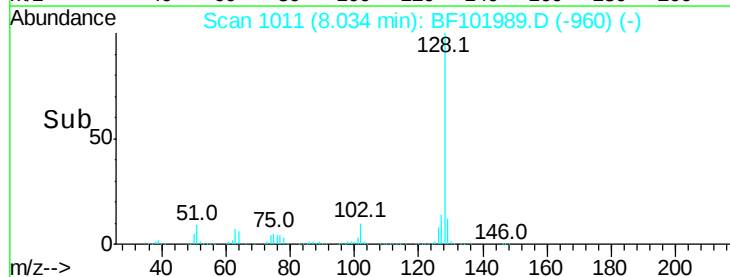
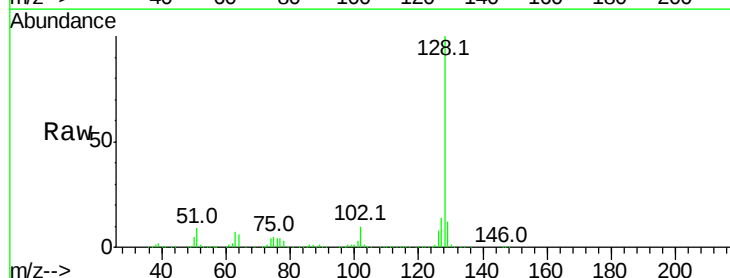
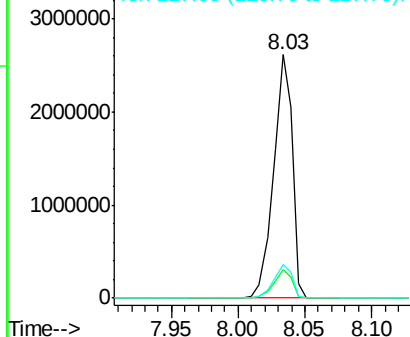
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

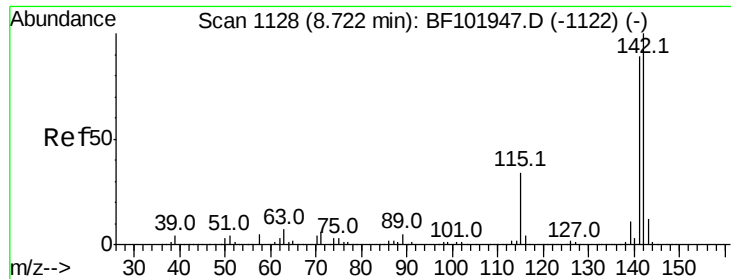


#31
Naphthalene
Concen: 57.888 ng
RT: 8.03 min Scan# 1011
Delta R.T. 0.00 min
Lab File: BF101989.D
Acq: 10 Jan 2018 19:56

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	14.1	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





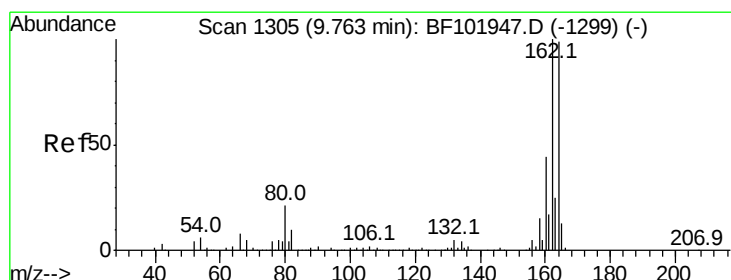
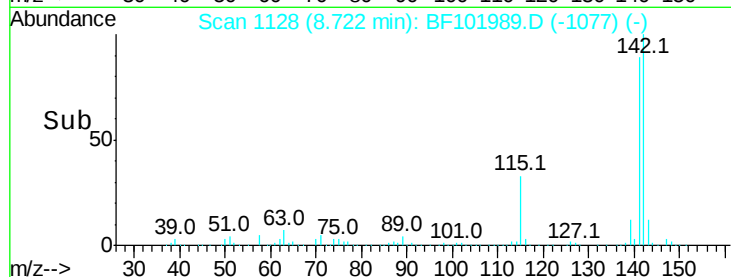
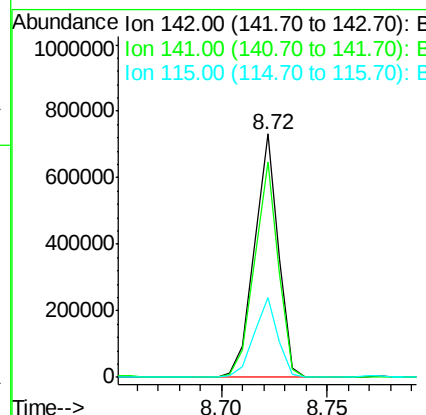
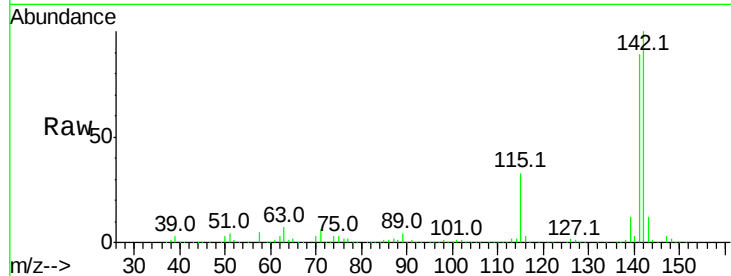
#37
2-Methylnaphthalene
Concen: 19.909 ng
RT: 8.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF101989.D
Acq: 10 Jan 2018 19:56

Instrument :
BNA_F
ClientSampleId :
WC-14R30-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2
115	32.6	26.1	39.1

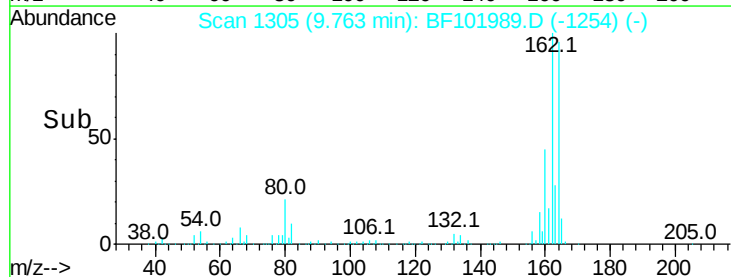
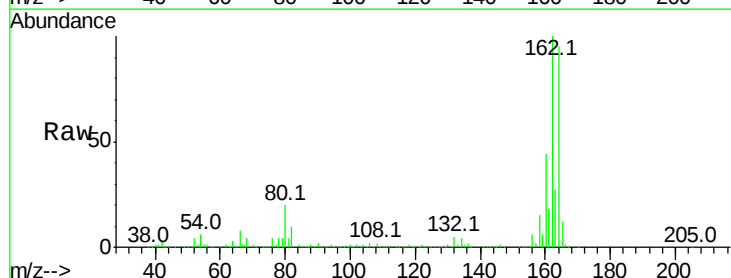
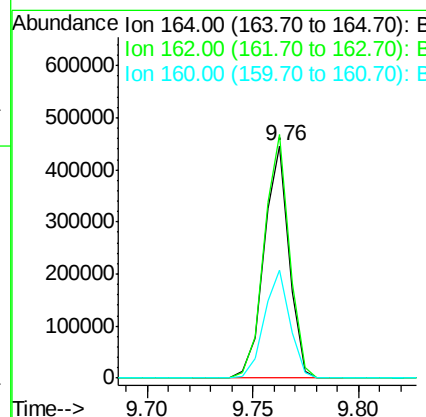
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF101989.D
Acq: 10 Jan 2018 19:56

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.9	86.1	129.1
160	46.6	38.3	57.5





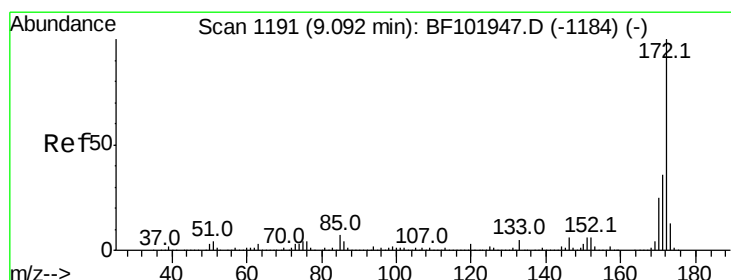
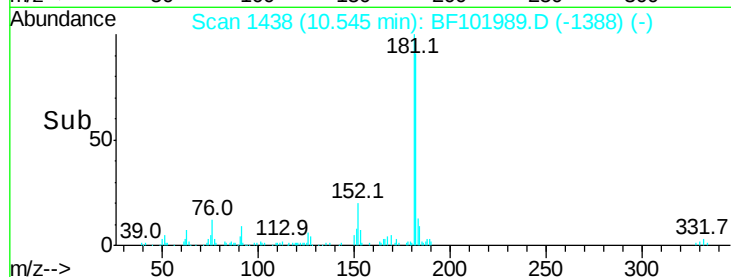
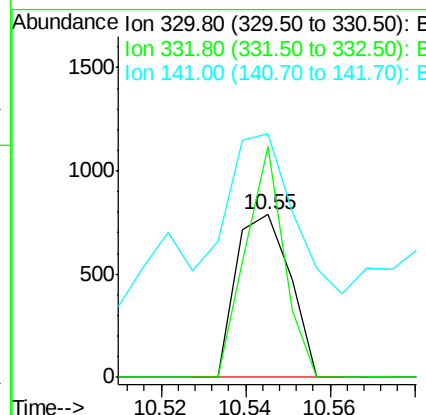
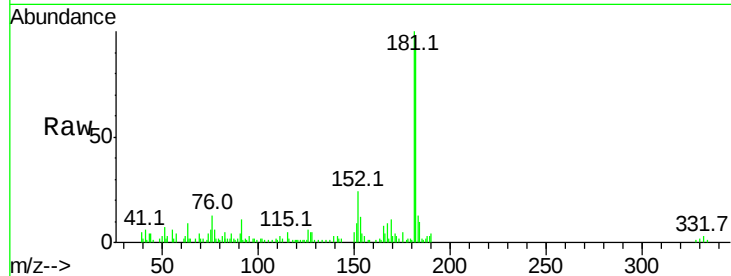
#41
 2,4,6-Tribromophenol
 Concen: 0.217 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF101989.D
 Acq: 10 Jan 2018 19:56

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.3	77.0	115.6
141	172.5	29.9	44.9#

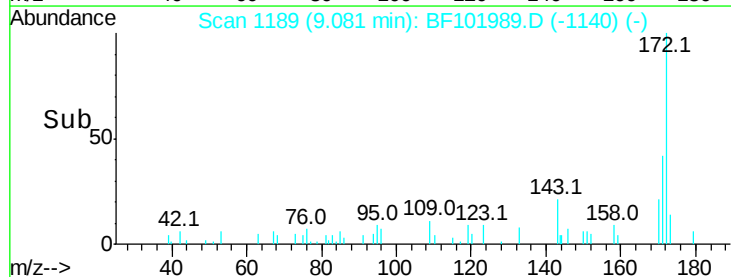
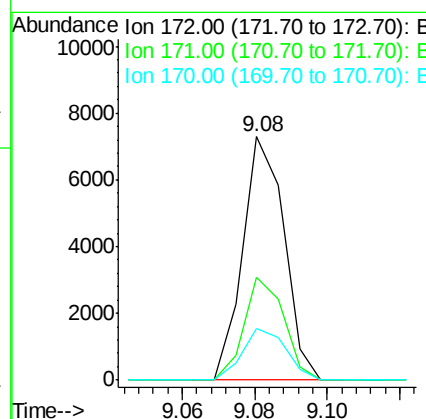
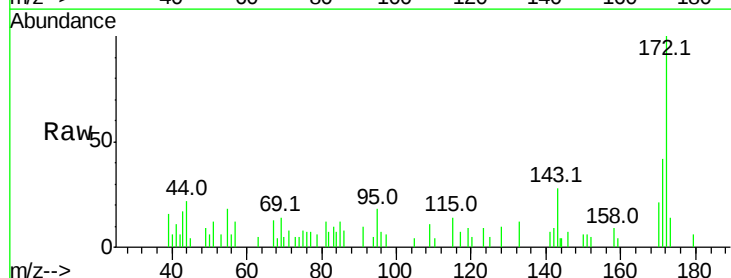
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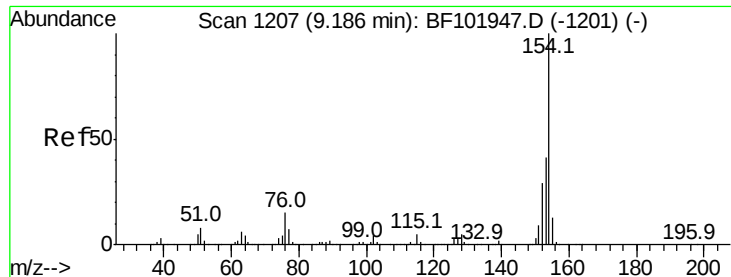
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#44
 2-Fluorobiphenyl
 Concen: 0.244 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF101989.D
 Acq: 10 Jan 2018 19:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	42.2	29.7	44.5
170	21.0	19.6	29.4





#45

1,1'-Biphenyl

Concen: 4.263 ng

RT: 9.19 min Scan# 1207

Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

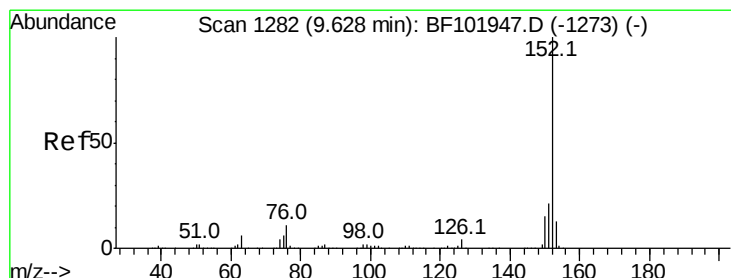
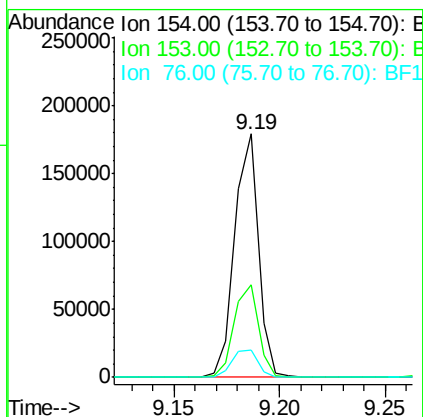
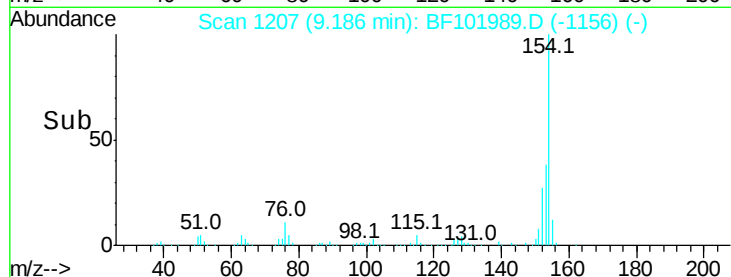
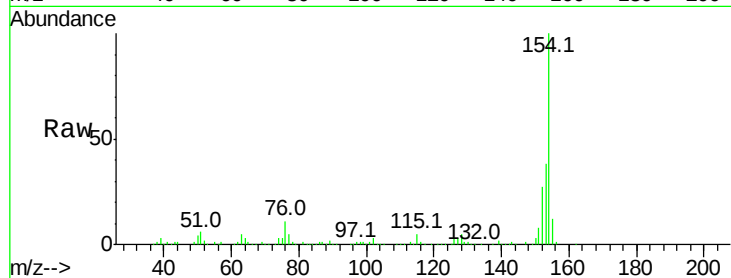
ClientSampleId :

WC-14R30-01

Tot Ion:	154	Resp:	138842
Ion Ratio	Lower	Upper	
154	100		
153	38.0	21.3	61.3
76	11.3	0.0	34.0

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#48

Acenaphthylene

Concen: 10.169 ng

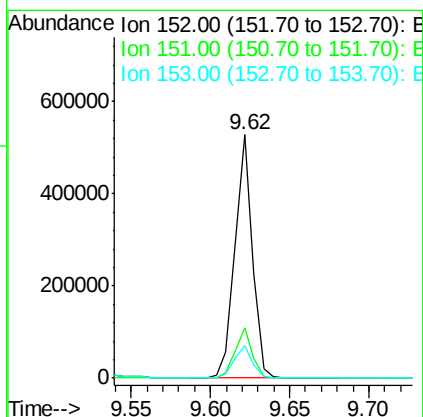
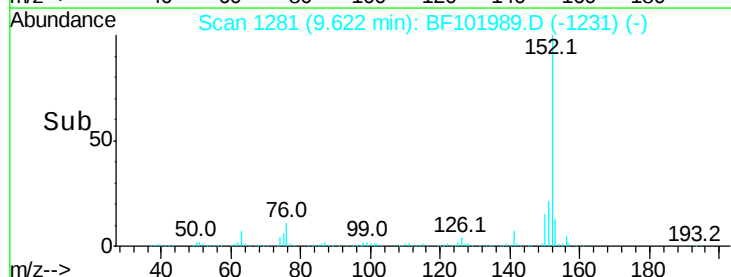
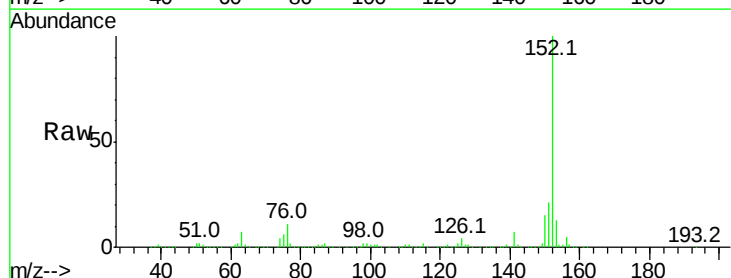
RT: 9.62 min Scan# 1281

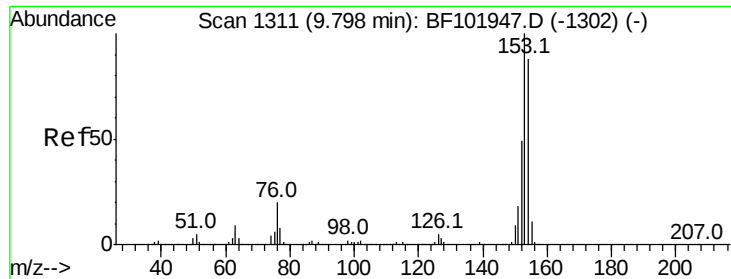
Delta R.T. -0.01 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Tgt Ion:	152	Resp:	407593
Ion Ratio	Lower	Upper	
152	100		
151	20.8	16.3	24.5
153	13.5	10.7	16.1





#51

Acenaphthene

Concen: 6.863 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

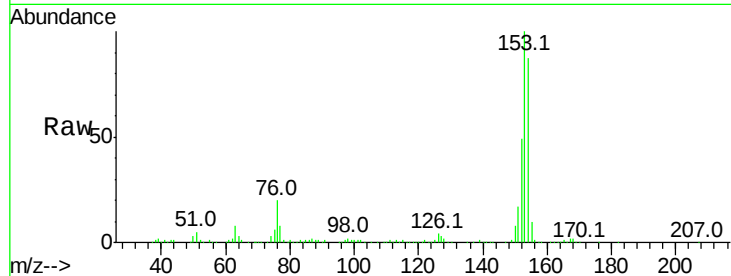
ClientSampleId :

WC-14R30-01

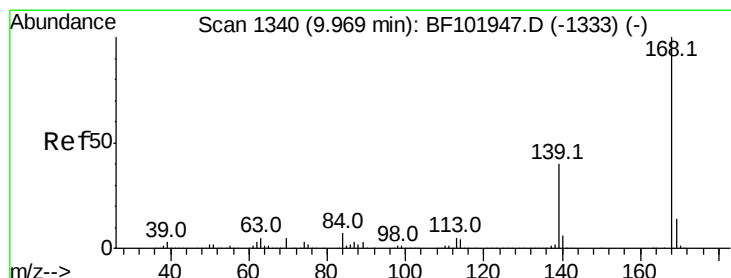
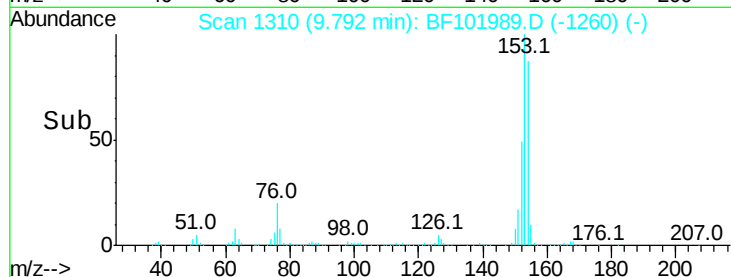
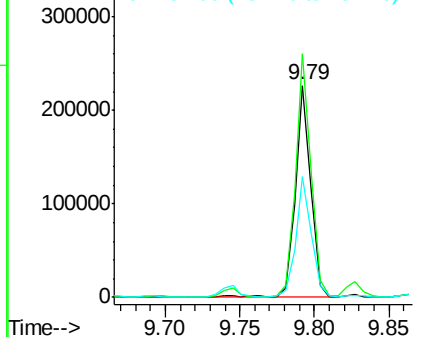
Tot Ion:	154	Resp:	166967
Ion Ratio	Lower	Upper	
154	100		
153	114.9	91.2	136.8
152	56.7	43.8	65.8

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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: 5.722 ng

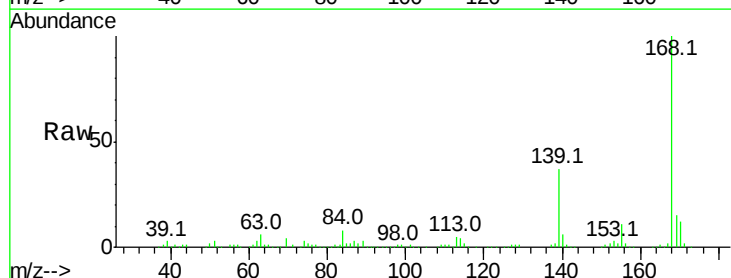
RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

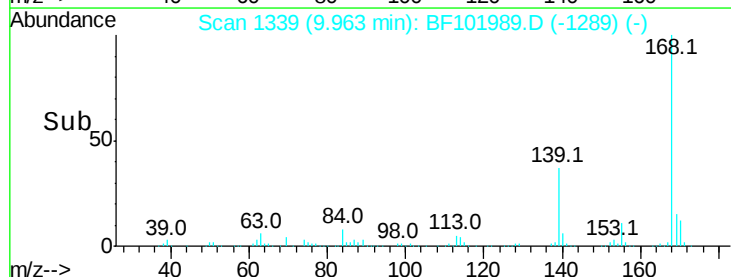
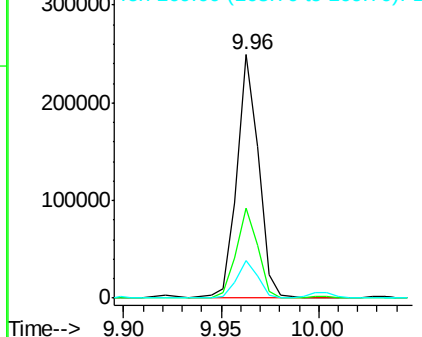
Lab File: BF101989.D

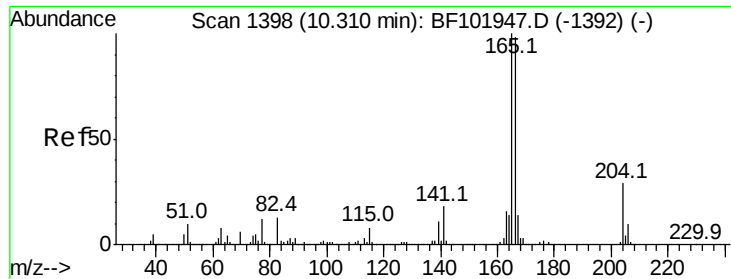
Acq: 10 Jan 2018 19:56

Tgt Ion:	168	Resp:	191044
Ion Ratio	Lower	Upper	
168	100		
139	37.2	30.1	45.1
169	15.2	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





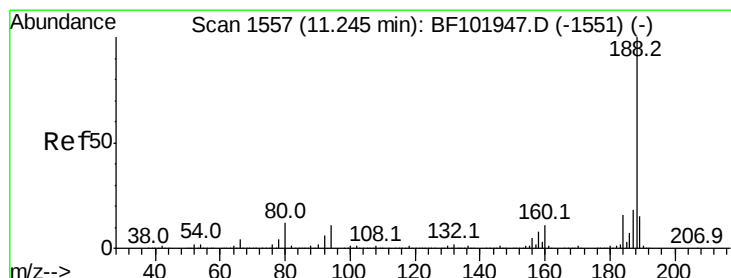
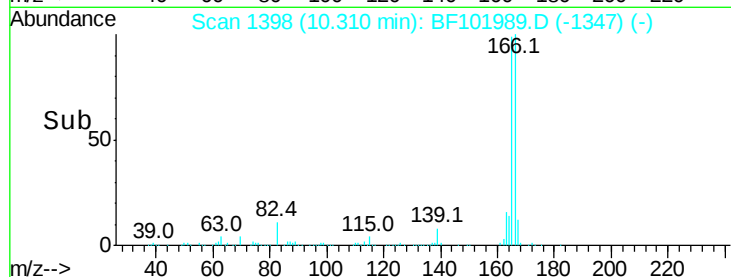
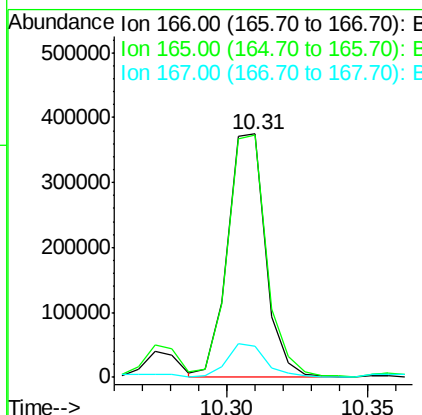
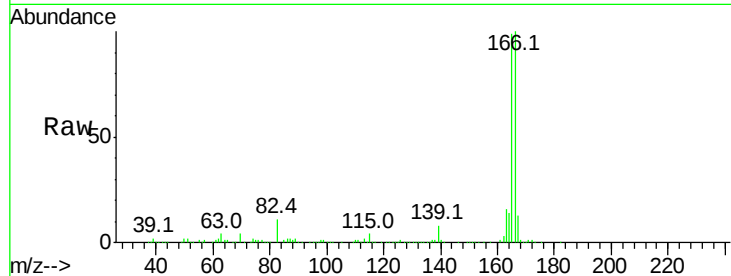
#57
Fluorene
 Concen: 15.142 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. 0.00 min
 Lab File: BF101989.D
 Acq: 10 Jan 2018 19:56

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-01

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.8
167	12.6	10.6	16.0

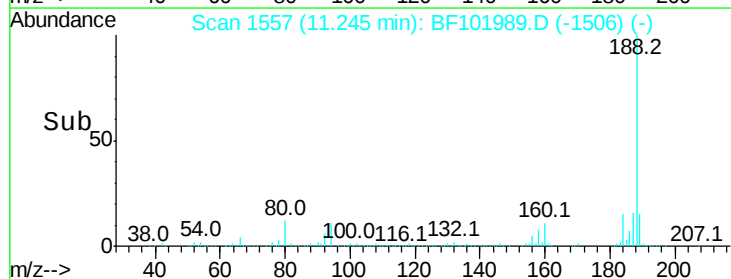
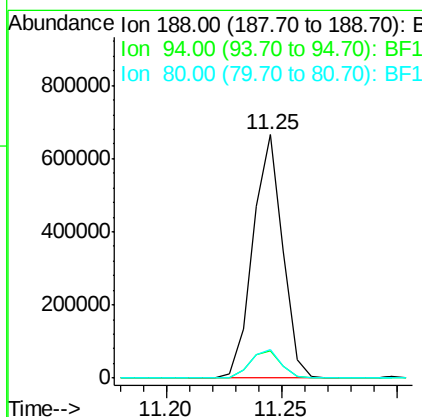
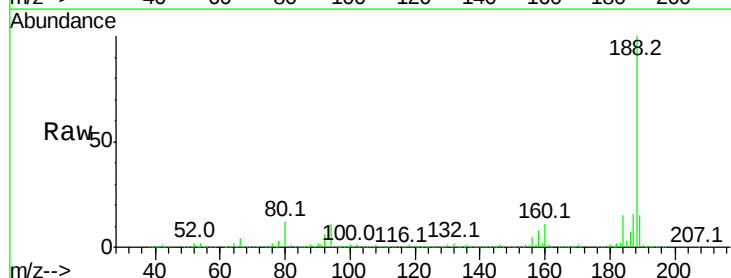
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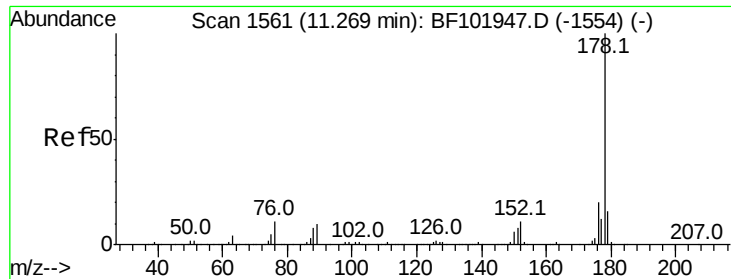
Sohil
 1/11/2018 10:52:54 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF101989.D
 Acq: 10 Jan 2018 19:56

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.4	8.5	12.7
80	11.9	9.2	13.8





#70

Phenanthrene

Concen: 36.640 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

ClientSampleId :

WC-14R30-01

Tot Ion:178 Resp: 1273406

Ion Ratio Lower Upper

178 100

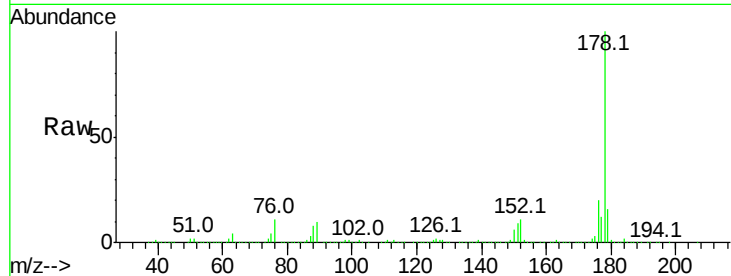
176 20.1 15.8 23.8

179 16.0 13.0 19.6

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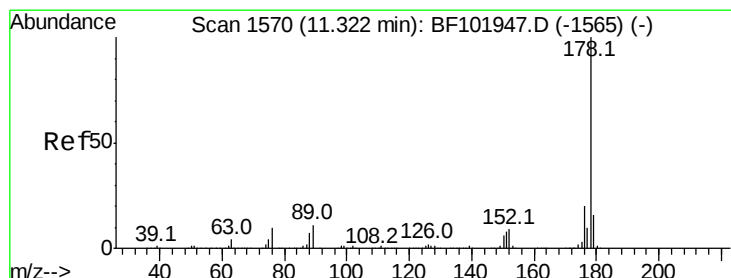
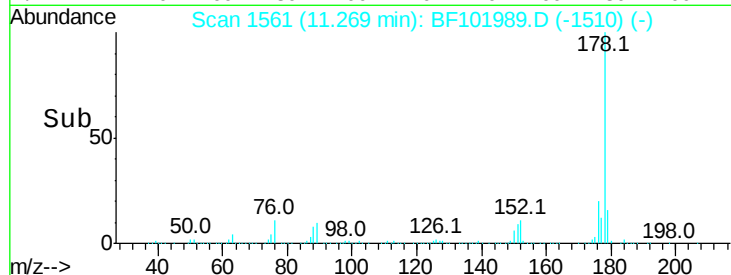
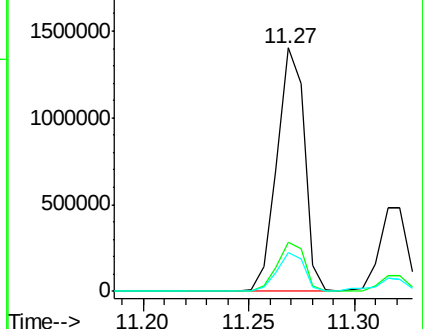
1/11/2018 10:52:54 AM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 12.361 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Tgt Ion:178 Resp: 435694

Ion Ratio Lower Upper

178 100

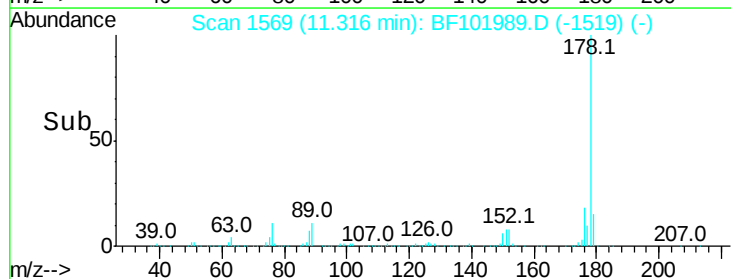
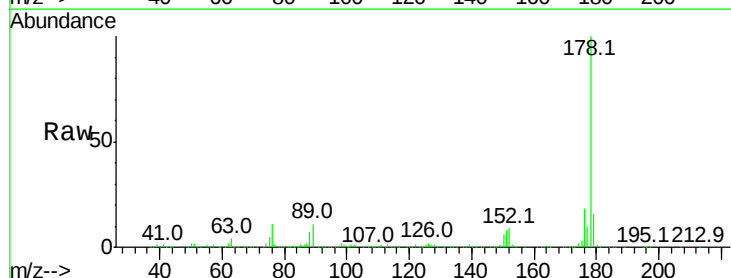
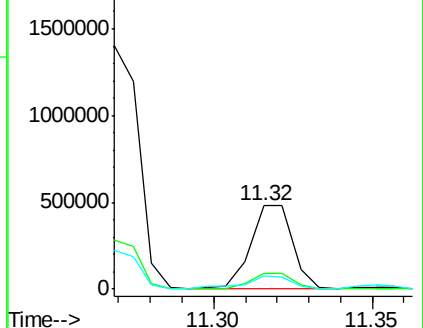
176 18.4 15.4 23.2

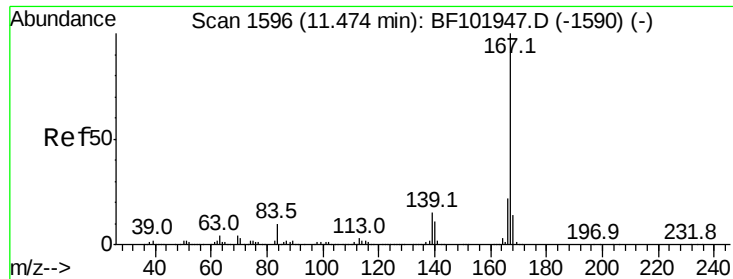
179 15.6 12.6 19.0

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: 2.634 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

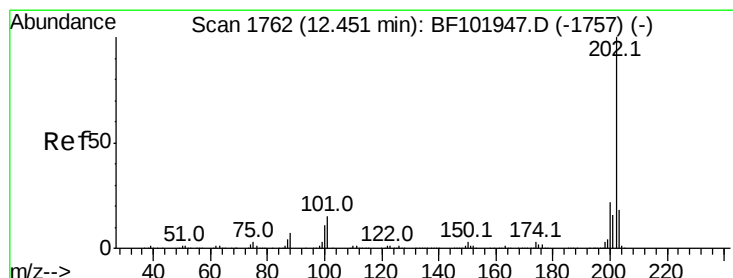
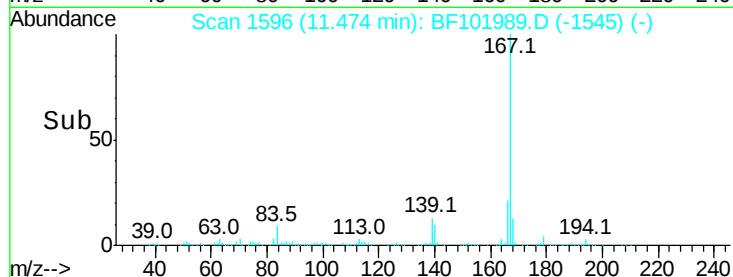
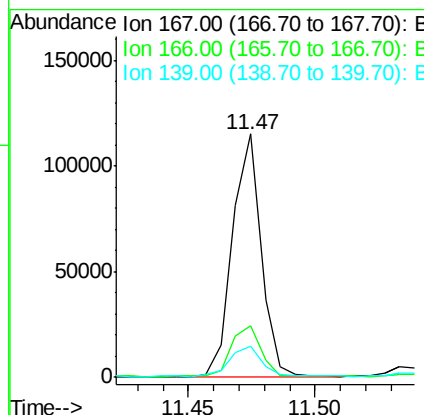
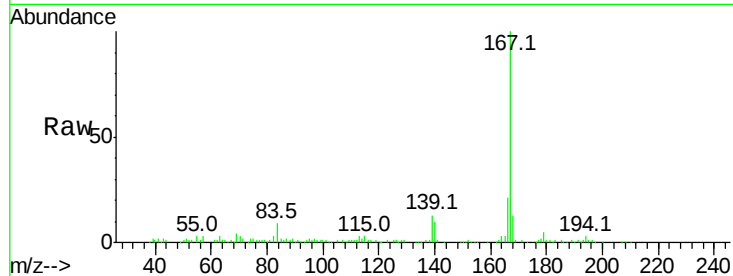
ClientSampleId :

WC-14R30-01

Tot Ion:	167	Resp:	91263
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.6	26.4
139	12.7	10.9	16.3

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#74

Fluoranthene

Concen: 18.223 ng

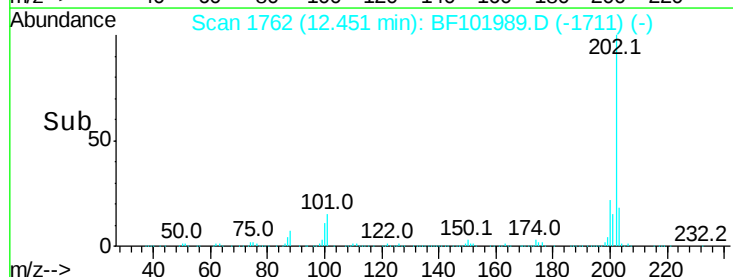
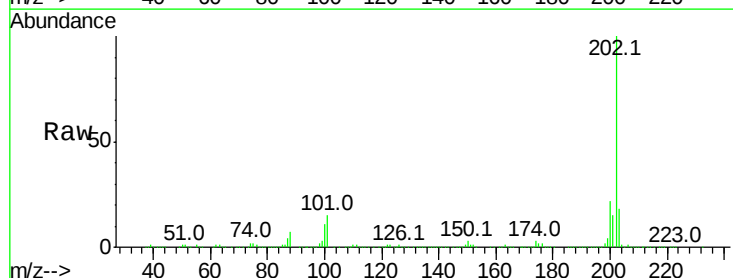
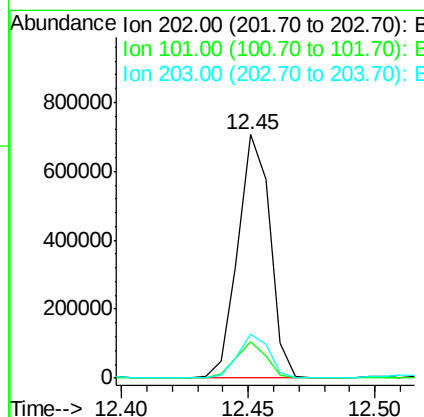
RT: 12.45 min Scan# 1762

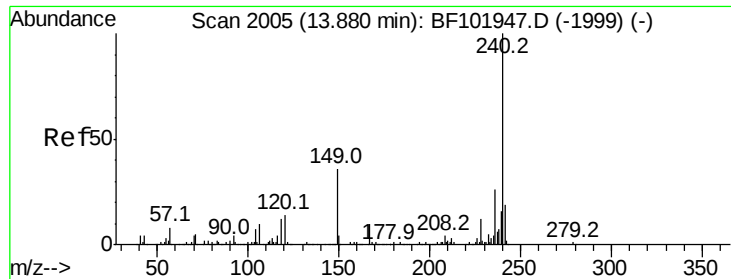
Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Tgt Ion:	202	Resp:	623105
Ion Ratio	Lower	Upper	
202	100		
101	14.9	0.0	34.1
203	18.1	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: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

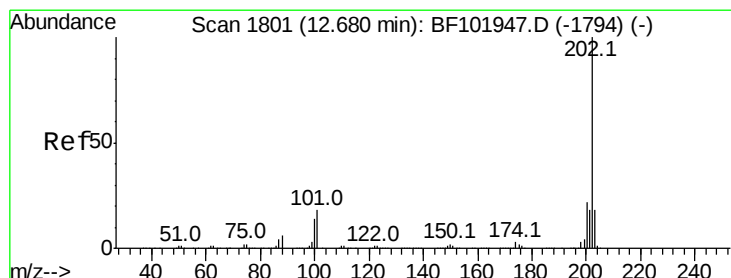
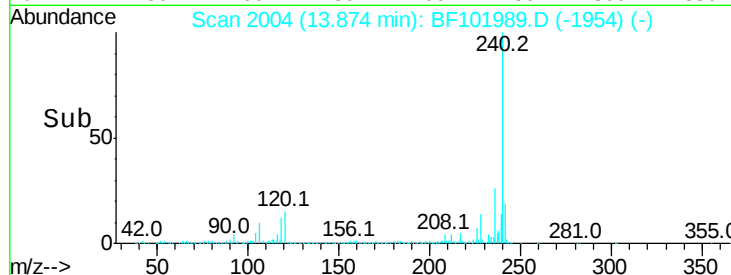
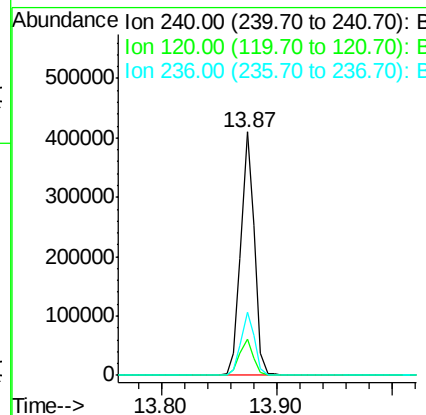
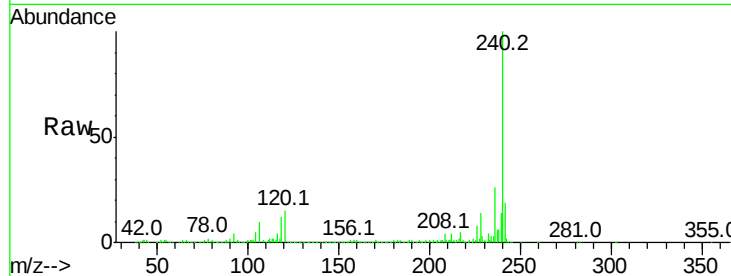
ClientSampleId :

WC-14R30-01

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.7	9.5	14.3#
236	26.0	20.7	31.1

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#77

Pyrene

Concen: 22.676 ng

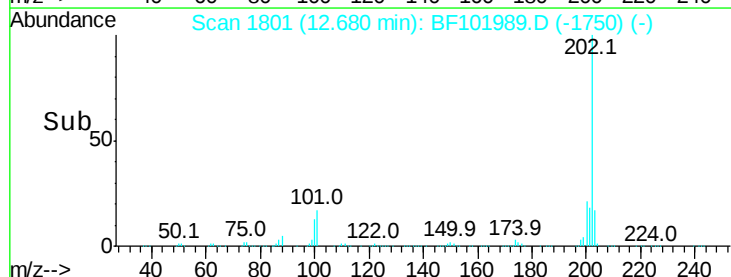
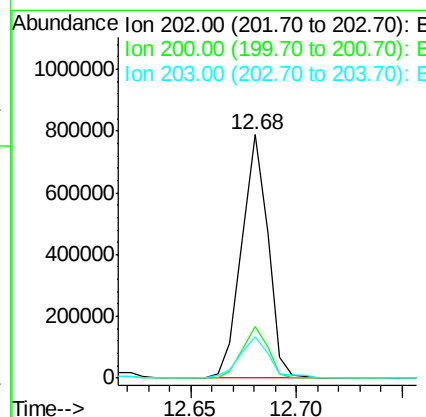
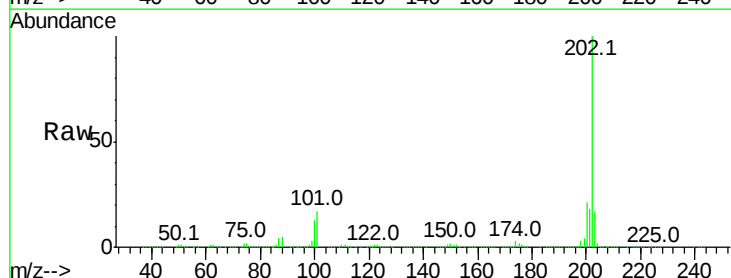
RT: 12.68 min Scan# 1801

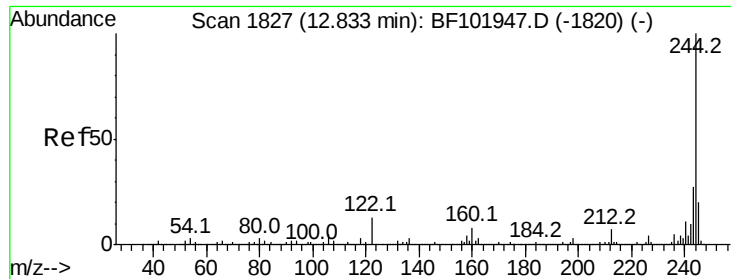
Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.4	26.2
203	17.2	14.3	21.5





#78

Terphenyl-d14

Concen: 0.338 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

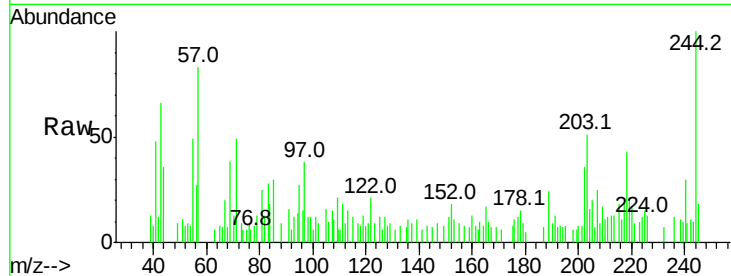
ClientSampleId :

WC-14R30-01

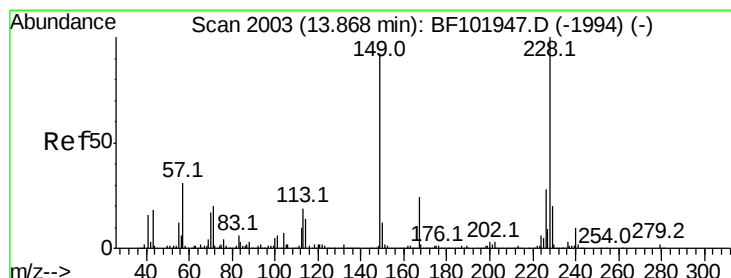
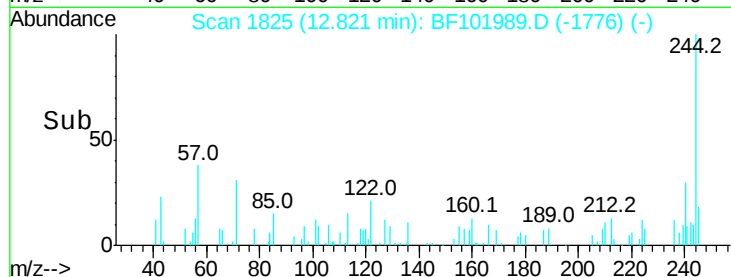
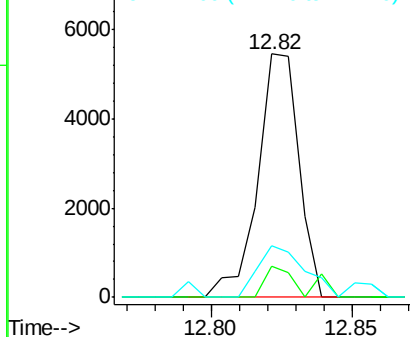
Tot Ion	Ratio	Lower	Upper
244	100		
212	12.8	5.4	8.0#
122	21.4	11.0	16.4#

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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: 9.941 ng m

RT: 13.86 min Scan# 2002

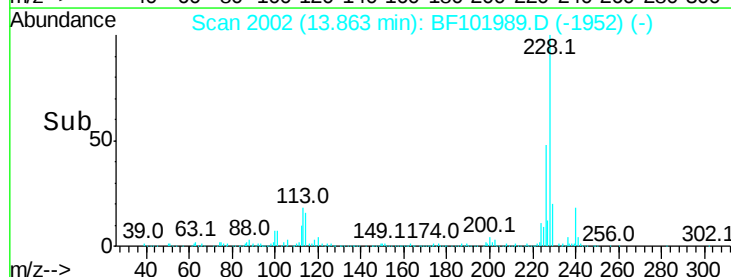
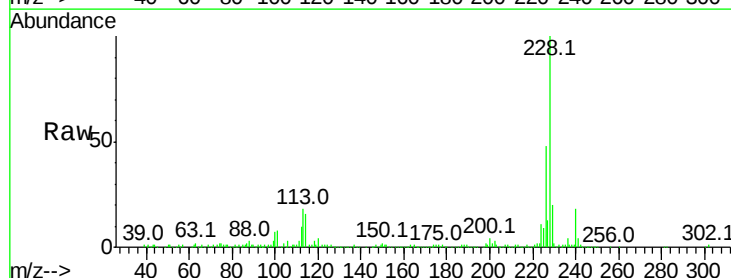
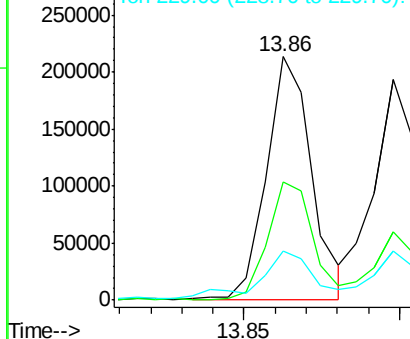
Delta R.T. -0.01 min

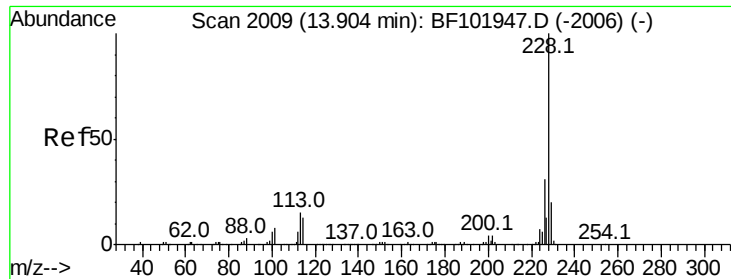
Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	48.4	22.6	33.8#
229	20.3	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: 8.050 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

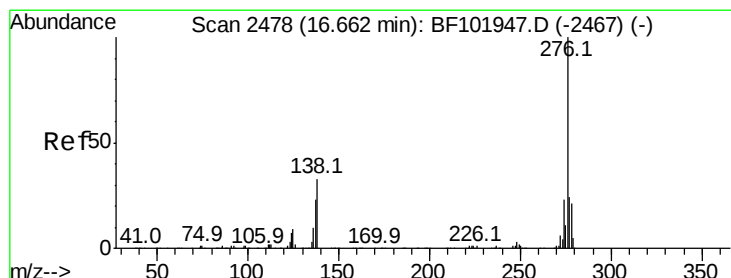
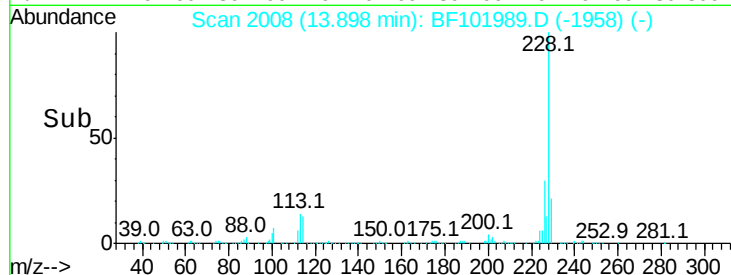
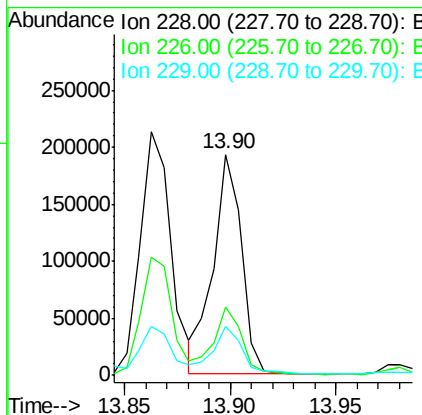
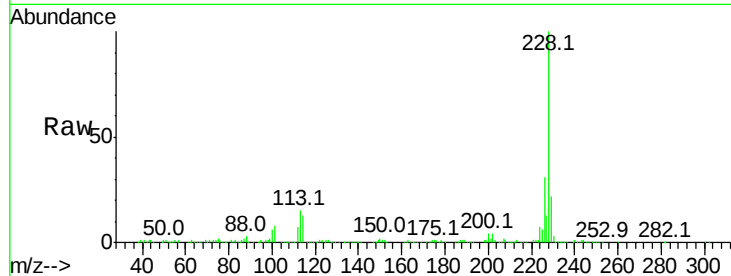
ClientSampled :

WC-14R30-01

Tot Ion:	228	Resp:	180833
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.0	37.6
229	22.4	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 6.242 ng

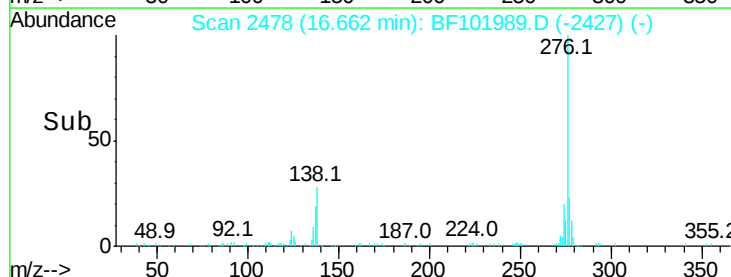
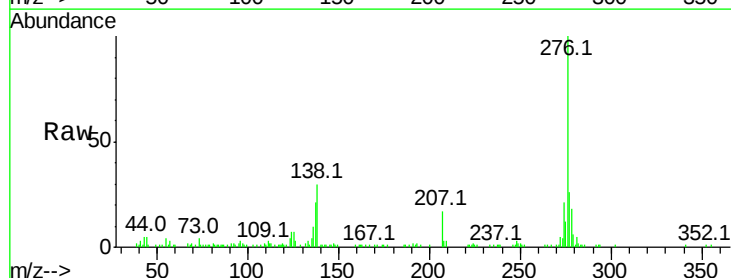
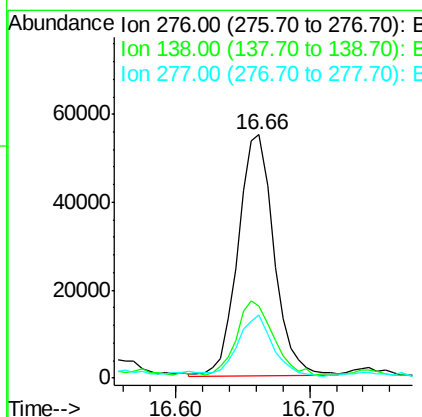
RT: 16.66 min Scan# 2478

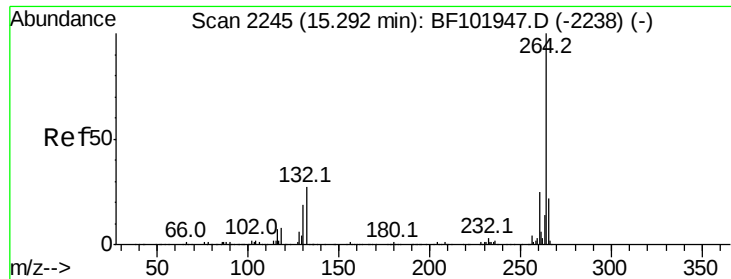
Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Tgt Ion:	276	Resp:	102055
Ion Ratio	Lower	Upper	
276	100		
138	30.8	25.0	37.6
277	23.9	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.29 min Scan# 2245

Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

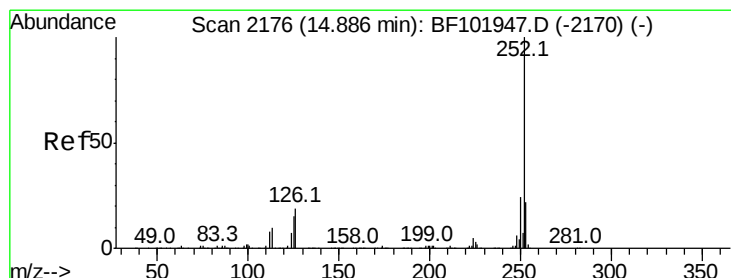
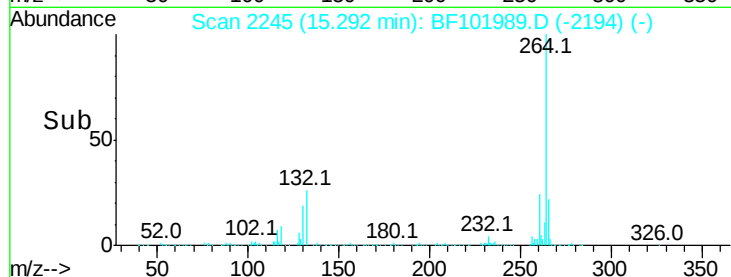
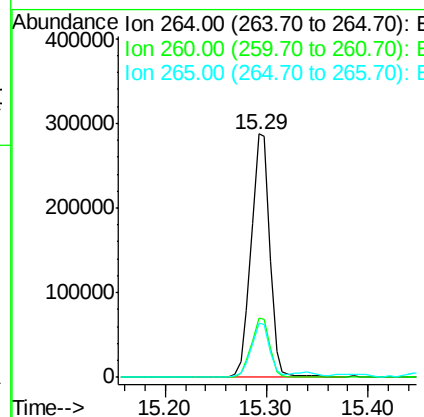
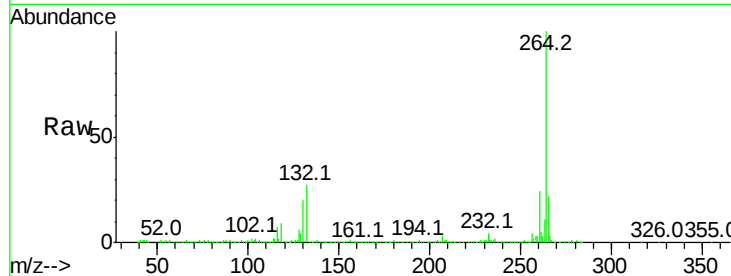
ClientSampleId :

WC-14R30-01

Tot Ion:	264	Resp:	370374
Ion Ratio	Lower	Upper	
264	100		
260	24.4	19.2	28.8
265	22.4	17.5	26.3

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#87

Benzo(b)fluoranthene

Concen: 7.952 ng m

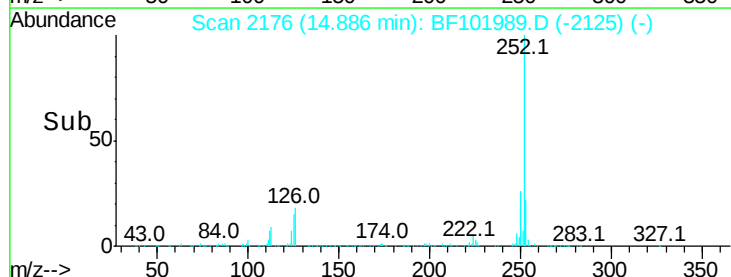
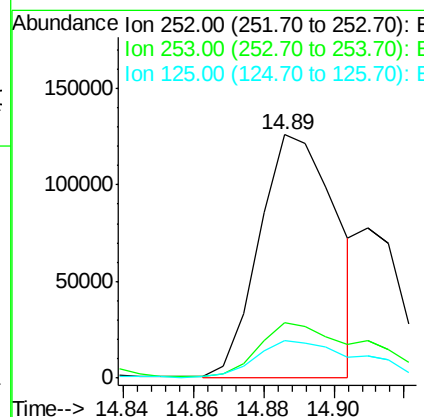
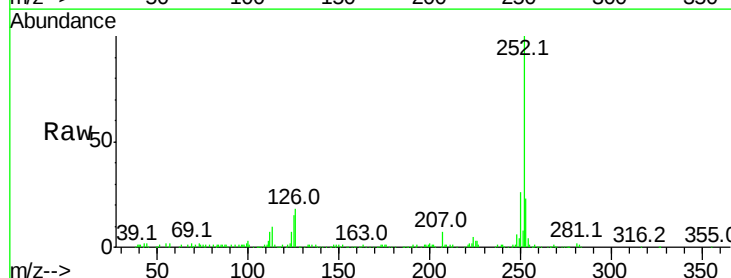
RT: 14.89 min Scan# 2176

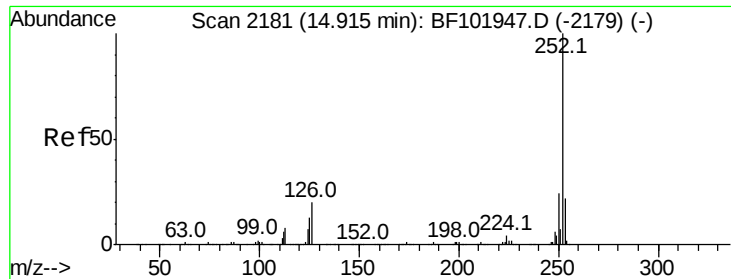
Delta R.T. 0.00 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Tgt Ion:	252	Resp:	192033
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.0	25.6
125	15.3	9.0	13.6#





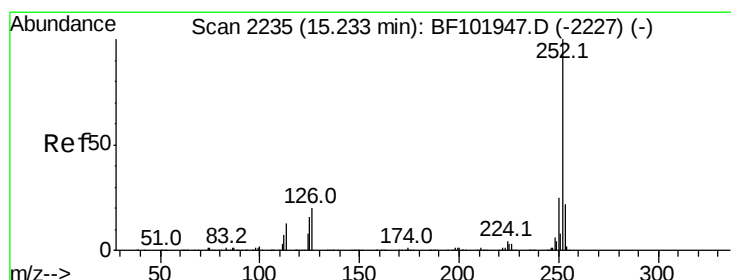
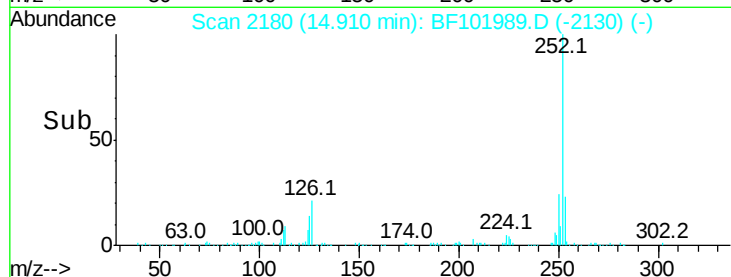
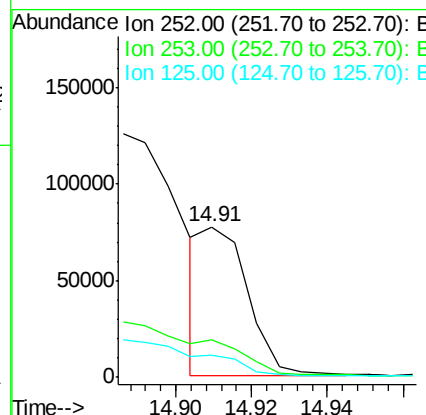
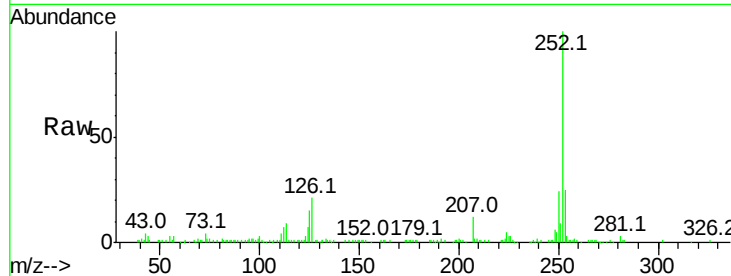
#88
Benzo(k)fluoranthene
Concen: 2.760 ng/mL
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF101989.D
Acq: 10 Jan 2018 19:56

Instrument :
BNA_F
ClientSampleId :
WC-14R30-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	14.8	10.2	15.2

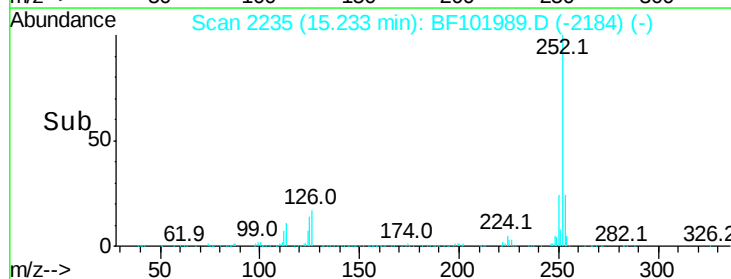
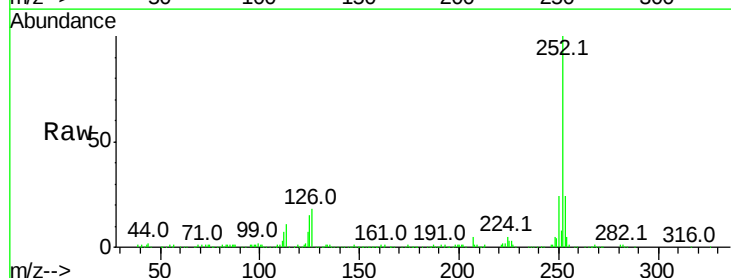
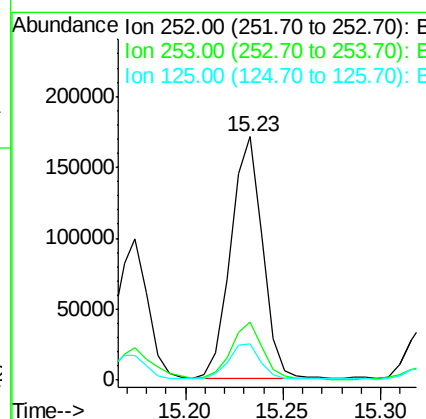
Manual Integrations
APPROVED

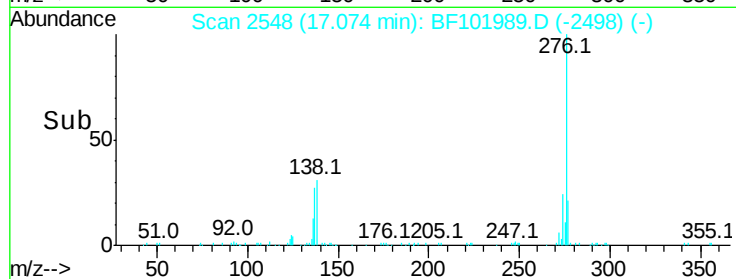
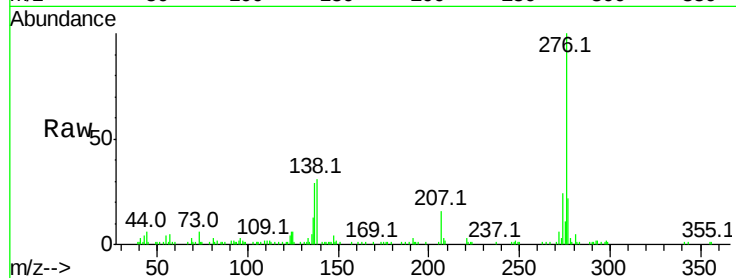
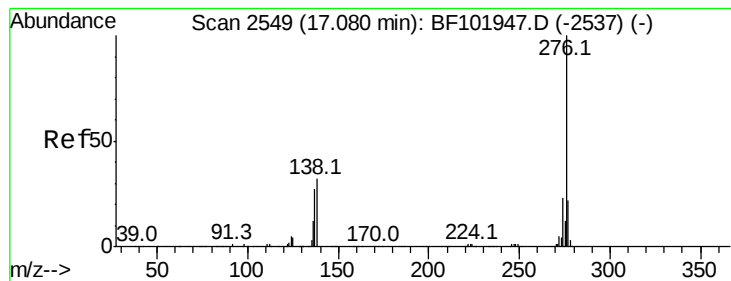
Sohil
1/11/2018 10:52:54 AM



#89
Benzo(a)pyrene
Concen: 8.925 ng/mL
RT: 15.23 min Scan# 2235
Delta R.T. 0.00 min
Lab File: BF101989.D
Acq: 10 Jan 2018 19:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.1	25.7
125	14.7	9.8	14.6





#91

Benzo(a,h,i)perylene

Concen: 6.105 ng

RT: 17.07 min Scan# 2548

Delta R.T. -0.01 min

Lab File: BF101989.D

Acq: 10 Jan 2018 19:56

Instrument :

BNA_F

ClientSampleId :

WC-14R30-01

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
277	21.8	17.9	26.9	
138	31.4	21.8	32.8	

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Sohil
1/11/2018 10:52:54 AM

