

Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
 Data File : BF102012.D
 Acq On : 11 Jan 2018 11:50
 Operator : SJ/JU
 Sample : J1076-03 20X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

Manual Integrations
 APPROVED

Sohil
 1/12/2018 10:37:00 AM

Quant Time: Jan 11 13:38:42 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 11 12:53:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	218567	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	908758	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	399892	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	652997	20.00	ng	0.00
75) Chrysene-d12	13.87	240	346373	20.00	ng	0.00
86) Perylene-d12	15.29	264	352398	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	17656	1.14	ng	-0.01
7) Phenol-d6	6.34	99	21169	1.15	ng	-0.02
23) Nitrobenzene-d5	7.28	82	12651	0.82	ng	-0.02
41) 2,4,6-Tribromophenol	10.54	330	3507	1.00	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	24848	0.97	ng	-0.01
78) Terphenyl-d14	12.82	244	20259	1.21	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.03	128	1540986	33.936	ng	99
37) 2-Methylnaphthalene	8.72	142	386721	12.936	ng	99
45) 1,1'-Biphenyl	9.18	154	83512	2.363	ng	99
48) Acenaphthylene	9.62	152	281628	6.474	ng	99
54) Dibenzofuran	9.96	168	142114	3.922	ng	98
57) Fluorene	10.30	166	281578	11.241	ng	99
70) Phenanthrene	11.27	178	1305920	34.237	ng	99
71) Anthracene	11.32	178	442997	11.451	ng	99
72) Carbazole	11.47	167	111634	2.936	ng	99
74) Fluoranthene	12.45	202	983103	26.196	ng	99
77) Pyrene	12.68	202	951207	31.068	ng	99
80) Benzo(a)anthracene	13.86	228	357734m	16.187	ng	
82) Chrysene	13.90	228	304843	13.229	ng	98
85) Indeno(1,2,3-cd)pyrene	16.66	276	190143	11.337	ng	97
87) Benzo(b)fluoranthene	14.89	252	338756m	14.743	ng	
88) Benzo(k)fluoranthene	14.91	252	111283m	5.020	ng	
89) Benzo(a)pyrene	15.23	252	290746	14.062	ng	97
90) Dibenzo(a,h)anthracene	16.67	278	53045	3.215	ng	# 89
91) Benzo(a,h,i)perylene	17.07	276	187496	11.280	ng	94

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

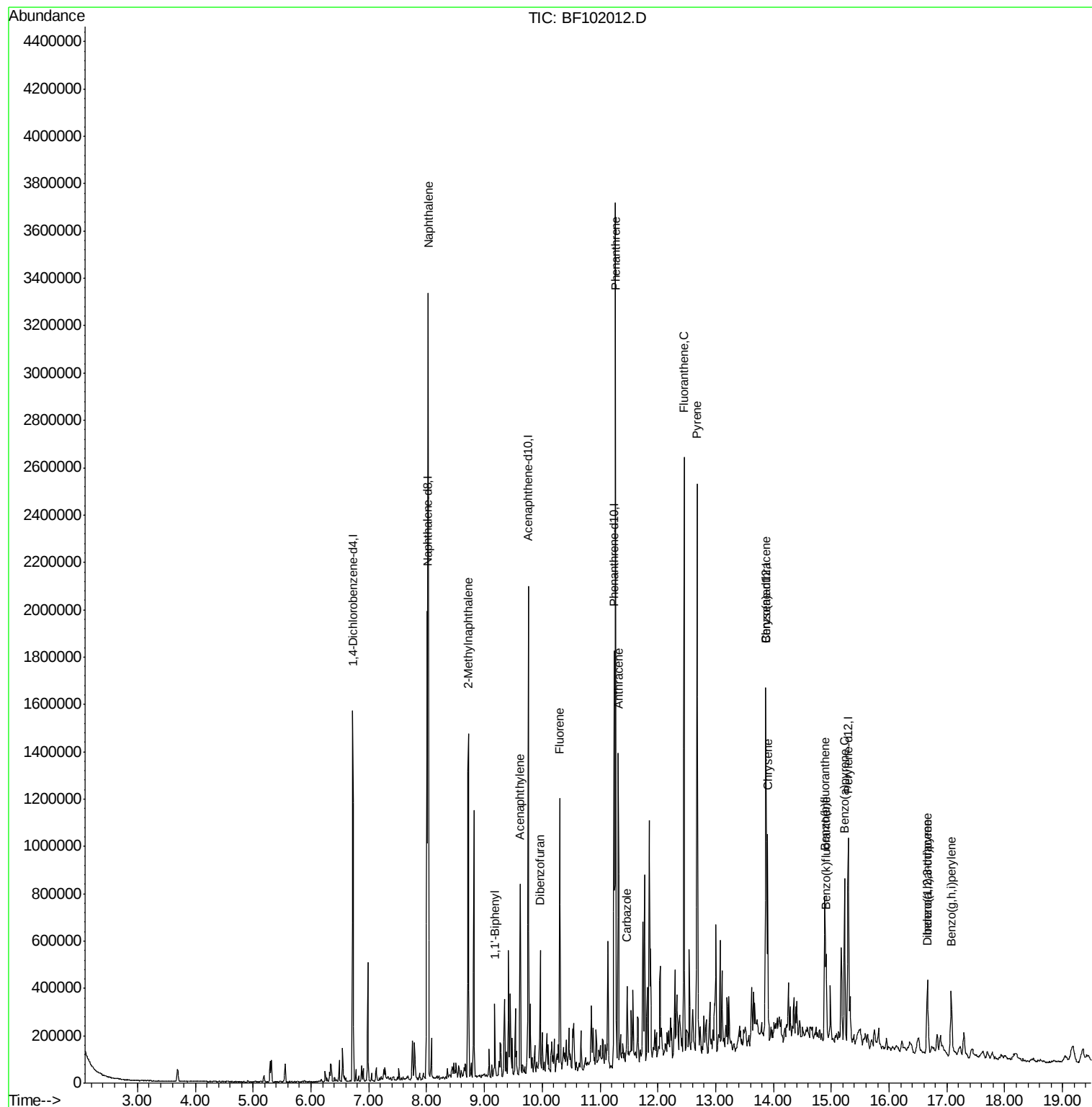
Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
Data File : BF102012.D
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ALS Vial : 7 Sample Multiplier: 1

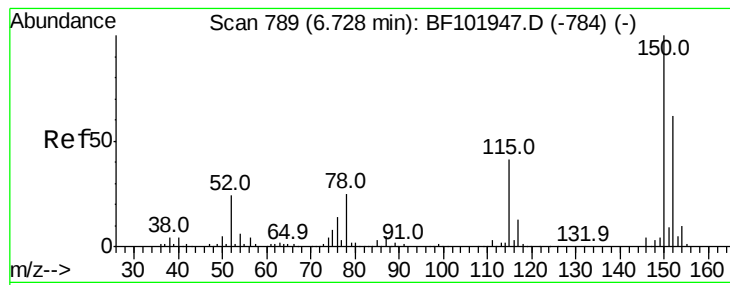
Instrument :
BNA_F
ClientSampleId :
WC-7317-02

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#1

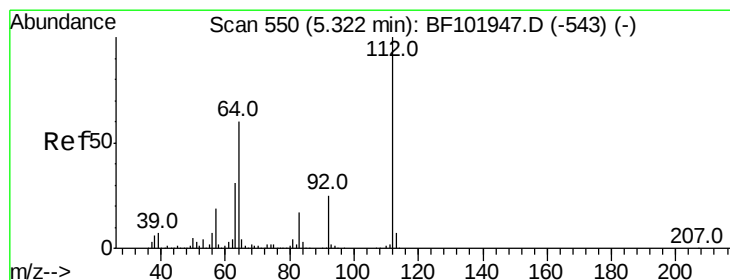
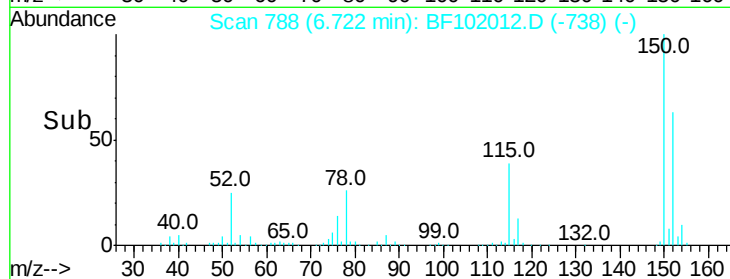
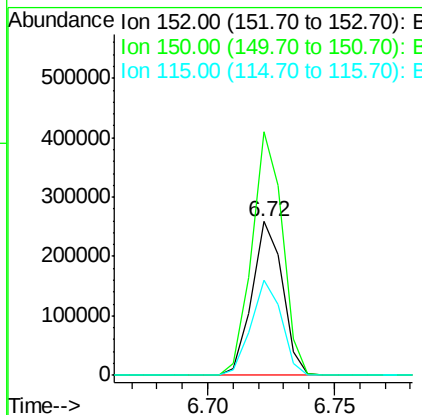
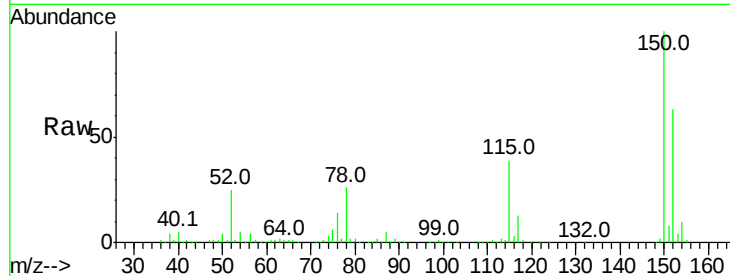
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Instrument :
BNA_F
ClientSampled :
WC-7317-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.5	124.6	186.8
115	62.2	50.1	75.1

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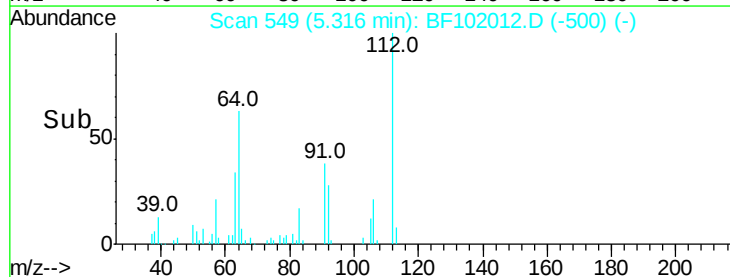
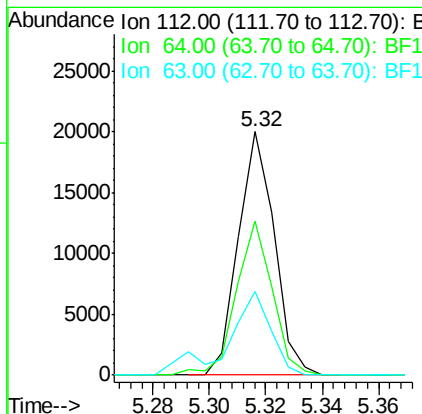
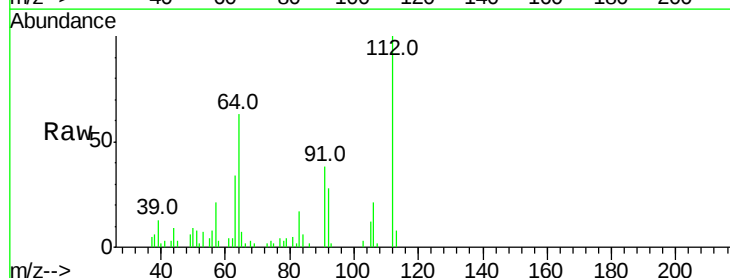
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#5

2-Fluorophenol
Concen: 1.141 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.4	47.9	71.9
63	34.2	23.7	35.5





#7

Phenol-d6

Concen: 1.146 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF102012.D

Acq: 11 Jan 2018 11:50

Instrument :

BNA_F

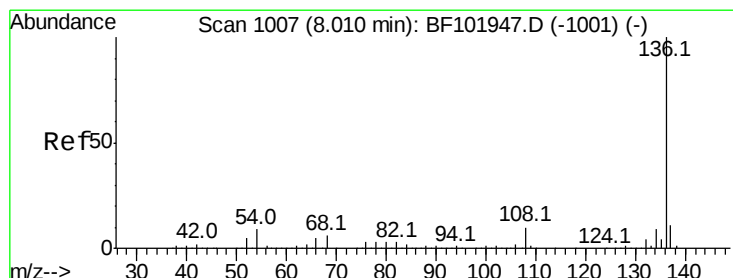
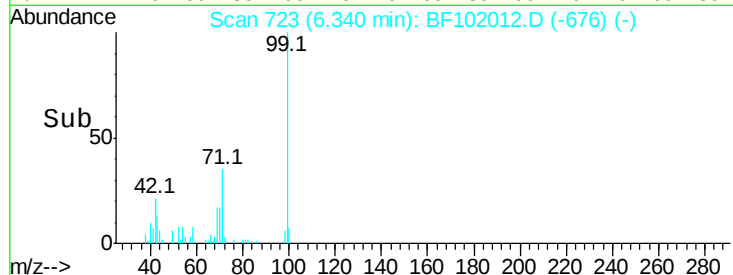
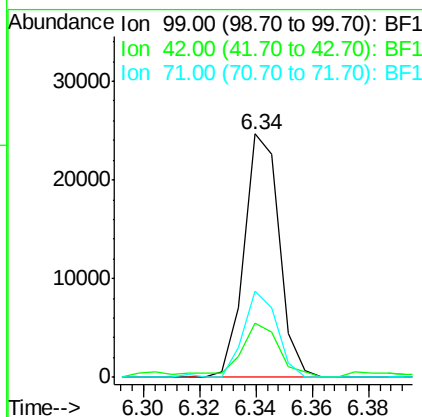
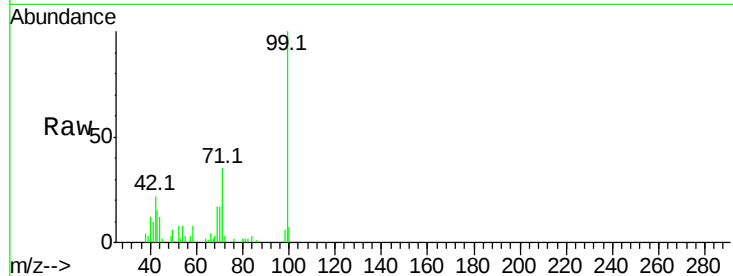
ClientSampleId :

WC-7317-02

Tot Ion:	99	Resp:	21169
Ion Ratio	Lower	Upper	
99	100		
42	22.3	14.5	21.7#
71	35.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

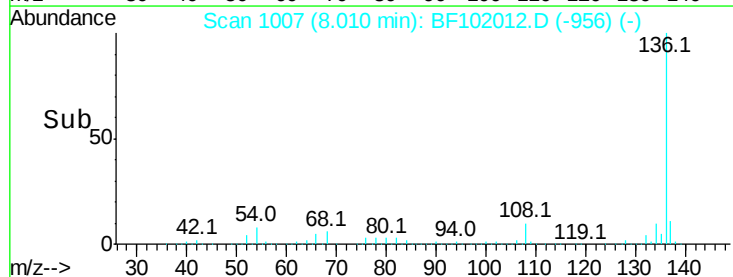
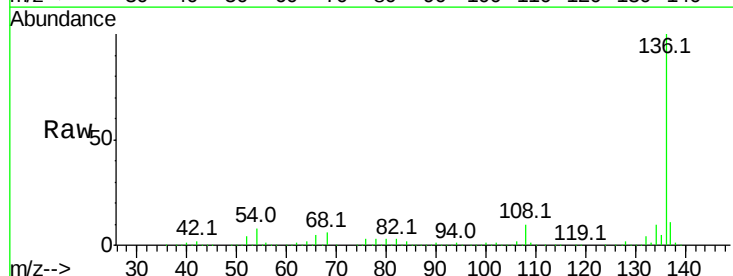
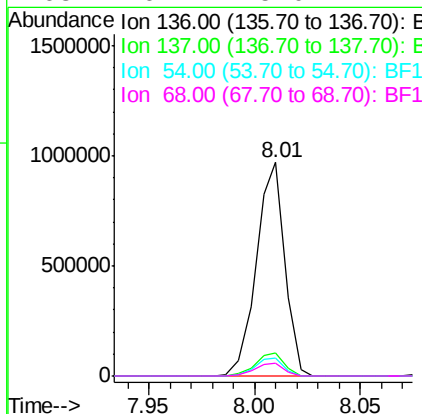
RT: 8.01 min Scan# 1007

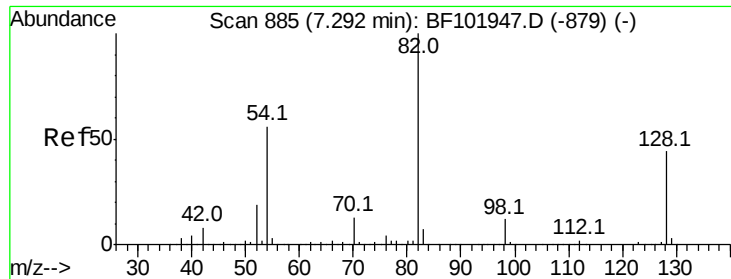
Delta R.T. 0.00 min

Lab File: BF102012.D

Acq: 11 Jan 2018 11:50

Tgt Ion:	136	Resp:	908758
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	8.2	6.6	9.8
68	6.1	5.0	7.4





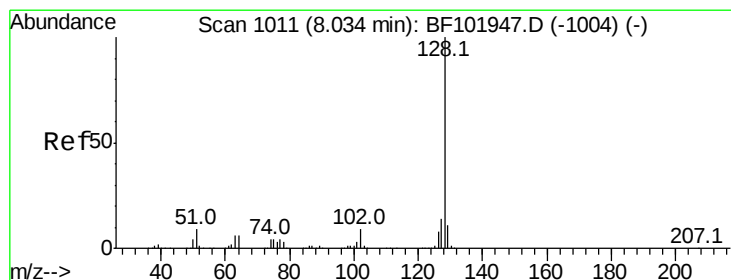
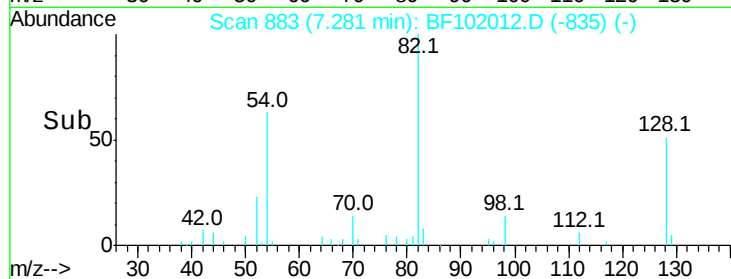
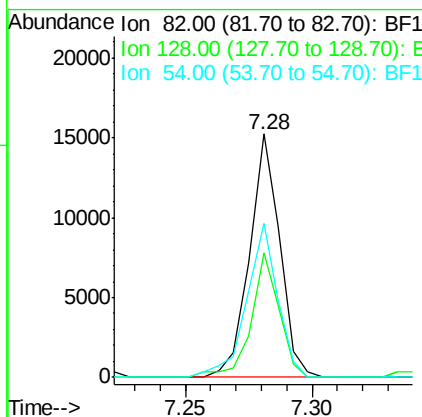
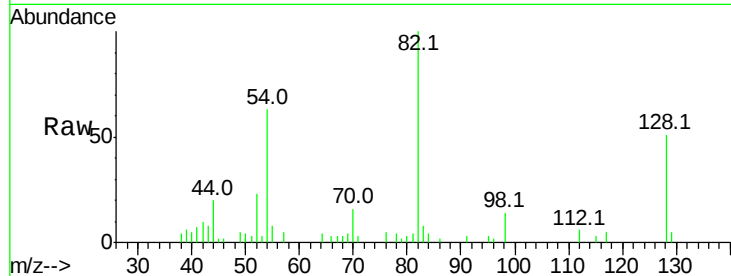
#23
Nitrobenzene-d5
Concen: 0.818 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Instrument :
BNA_F
ClientSampleId :
WC-7317-02

Tot Ion	Ratio	Lower	Upper
82	100		
128	51.0	36.1	54.1
54	63.1	41.4	62.2

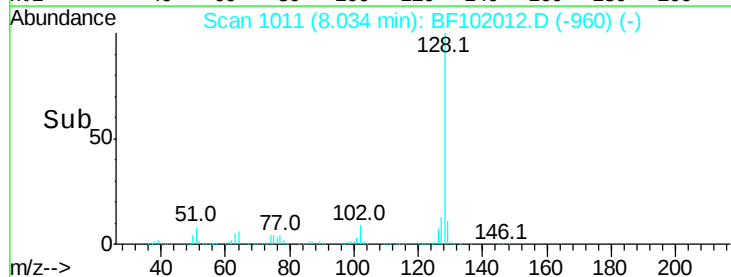
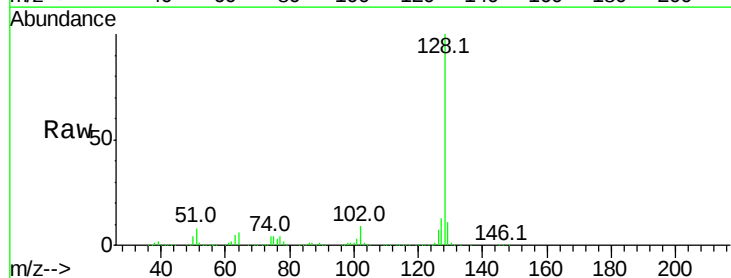
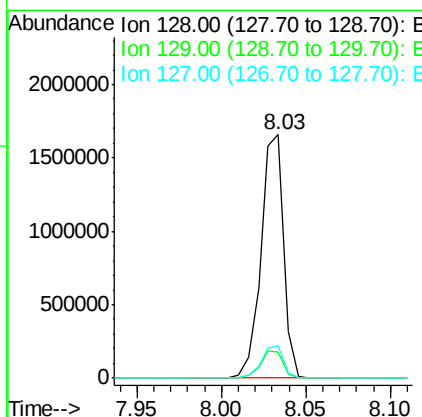
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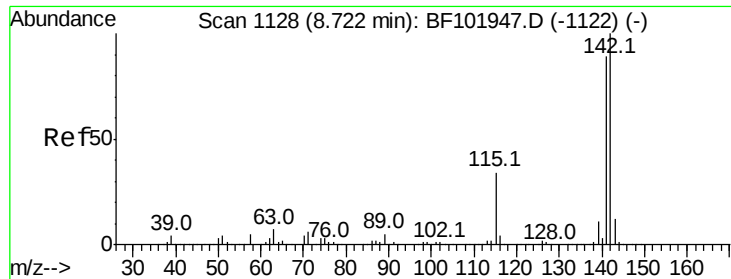
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#31
Naphthalene
Concen: 33.936 ng
RT: 8.03 min Scan# 1011
Delta R.T. 0.00 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	13.4	10.9	16.3





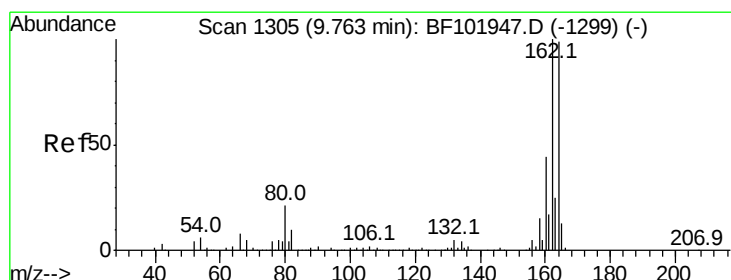
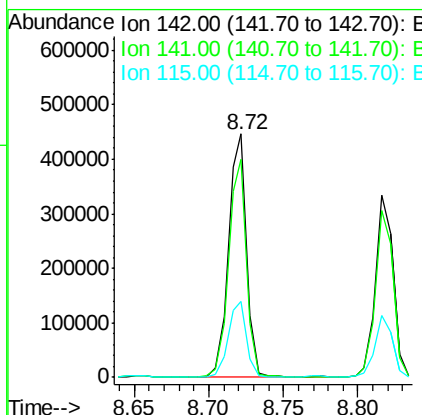
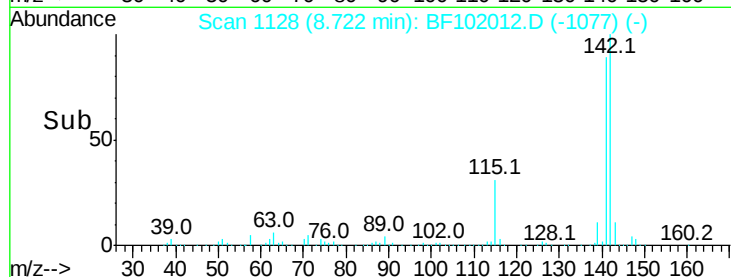
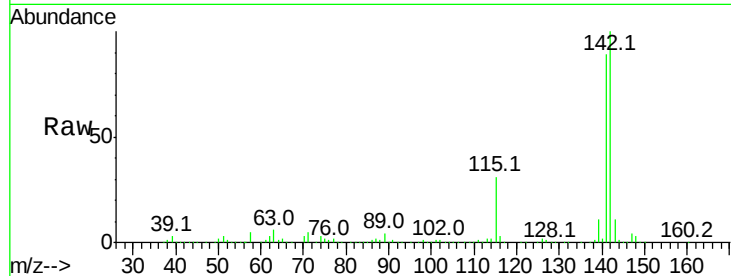
#37
2-Methylnaphthalene
Concen: 12.936 ng
RT: 8.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Instrument :
BNA_F
ClientSampleId :
WC-7317-02

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	70.8	106.2
115	31.3	26.1	39.1

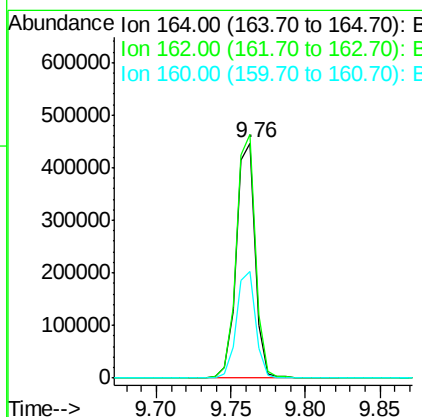
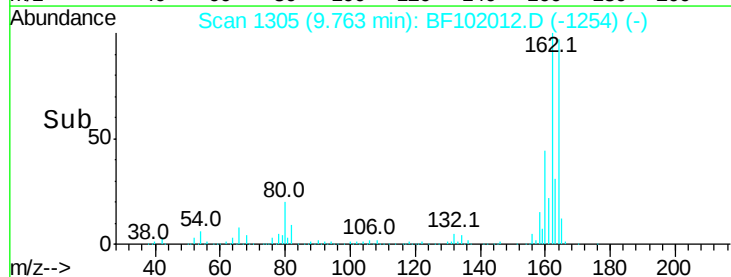
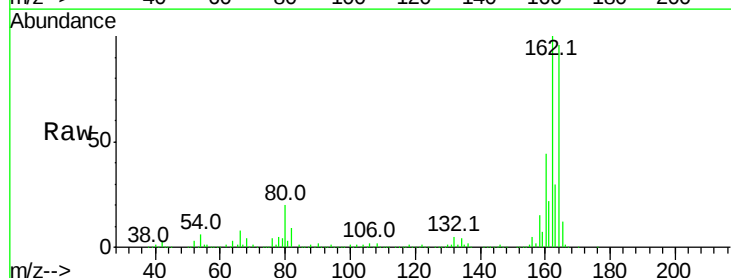
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	86.1	129.1
160	45.2	38.3	57.5





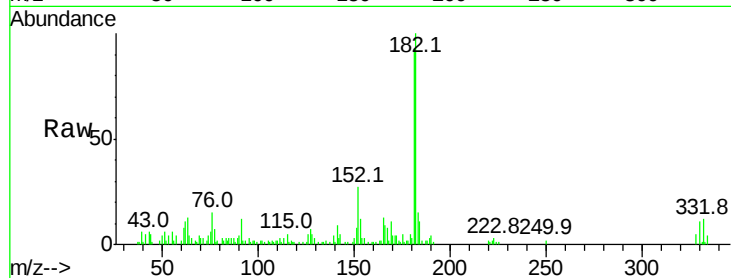
#41
 2,4,6-Tribromophenol
 Concen: 1.005 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

Tot Ion	Ratio	Lower	Upper
330	100		
332	100.8	77.0	115.6
141	92.6	29.9	44.9#

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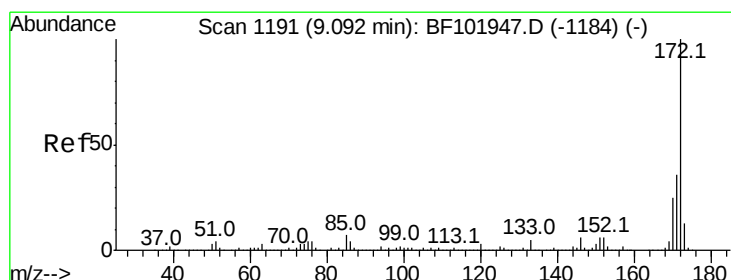
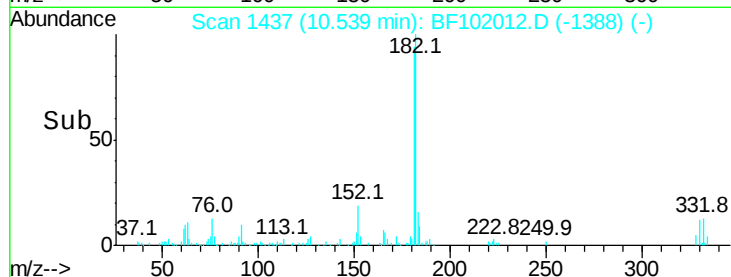
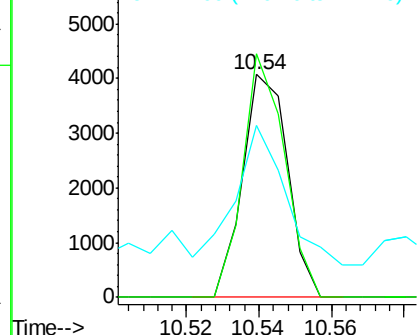


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 0.971 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

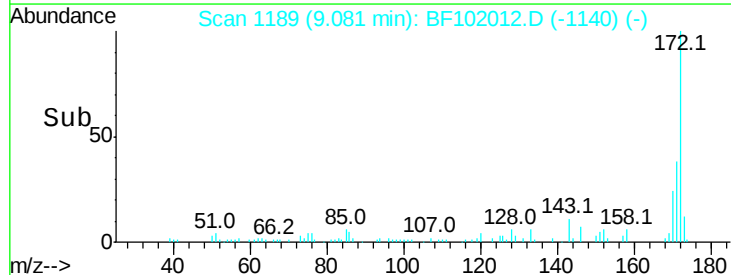
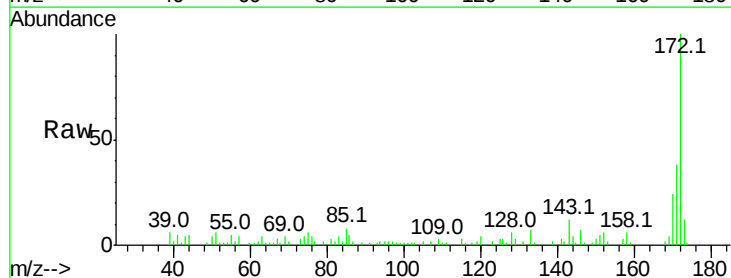
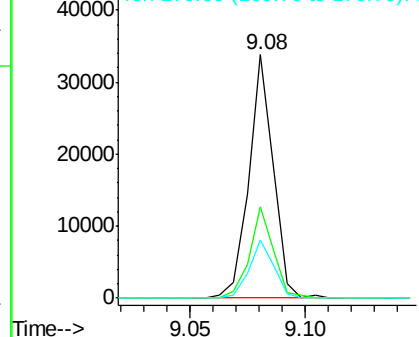
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.7	44.5
170	24.0	19.6	29.4

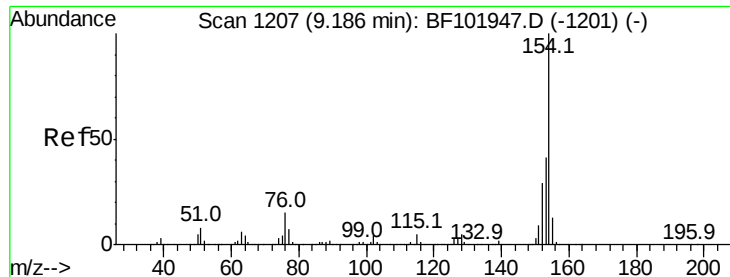
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





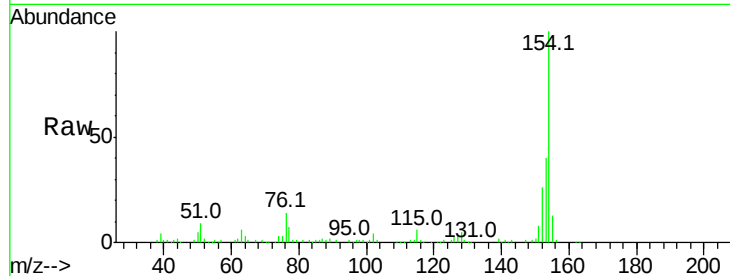
#45
 1,1'-Biphenyl
 Concen: 2.363 ng
 RT: 9.18 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

Instrument :
 BNA_F
 ClientSampled :
 WC-7317-02

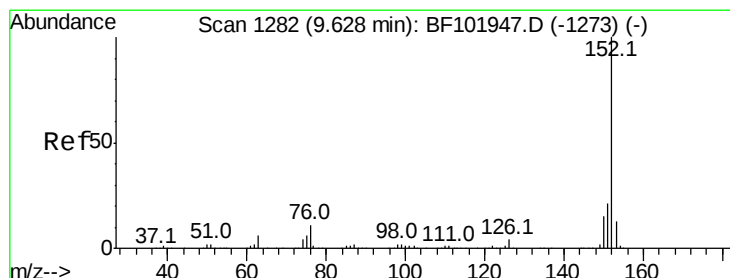
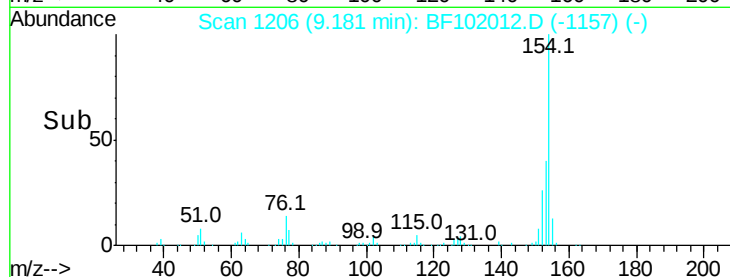
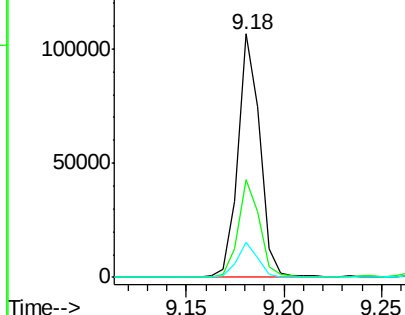
Tot Ion:	154	Resp:	83512
Ion Ratio	Lower	Upper	
154	100		
153	40.3	21.3	61.3
76	14.2	0.0	34.0

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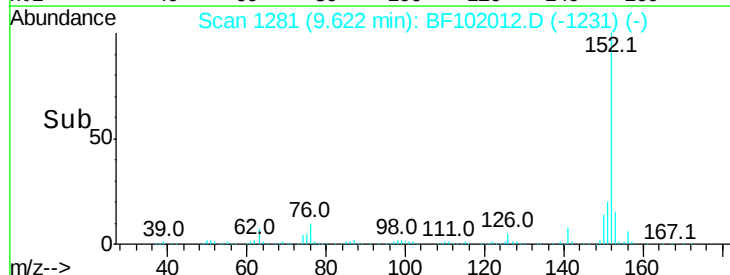
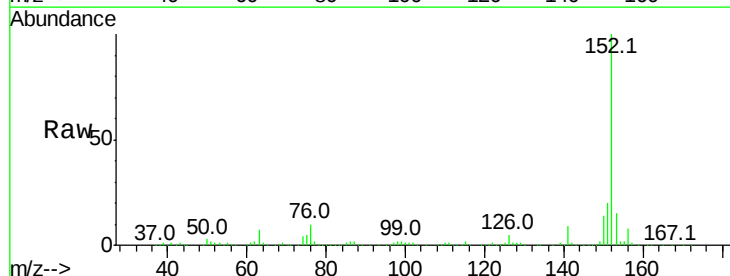
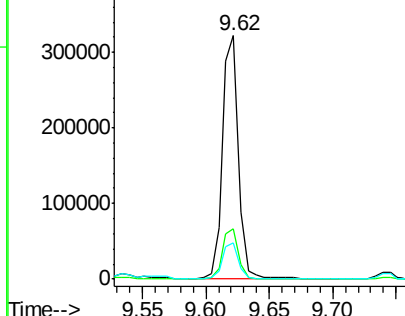
Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

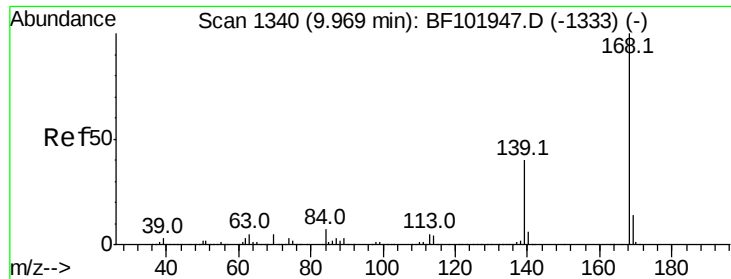


#48
 Acenaphthylene
 Concen: 6.474 ng
 RT: 9.62 min Scan# 1281
 Delta R.T. -0.01 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

Tgt Ion:	152	Resp:	281628
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.3	24.5
153	14.8	10.7	16.1

Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





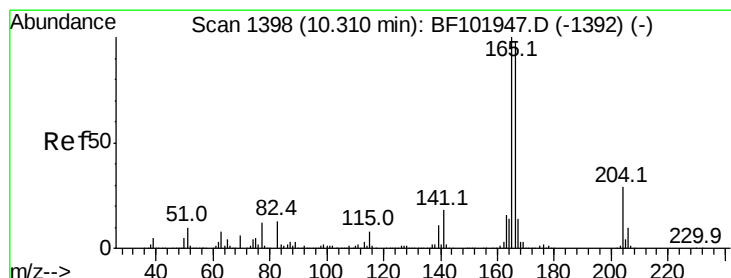
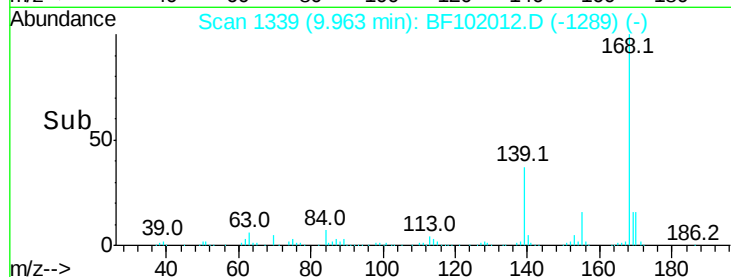
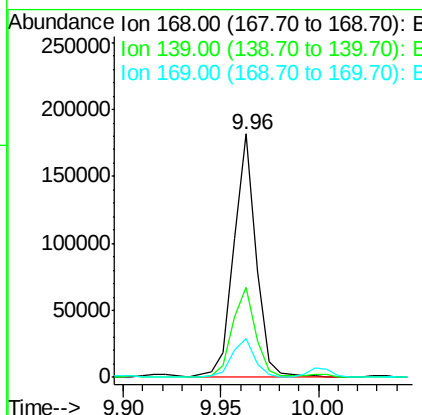
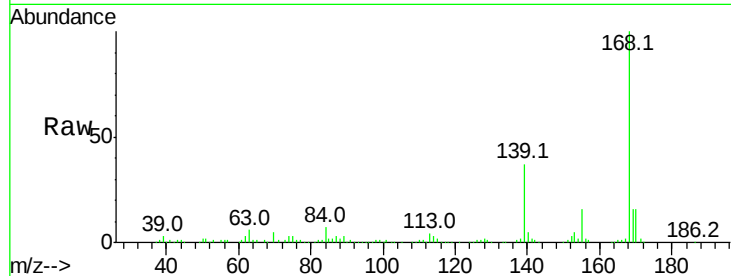
#54
Dibenzofuran
Concen: 3.922 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Instrument :
BNA_F
ClientSampled :
WC-7317-02

Tot Ion	Ratio	Resp	Lower	Upper
168	100	142114		
139	37.1	30.1	45.1	
169	16.1	10.9	16.3	

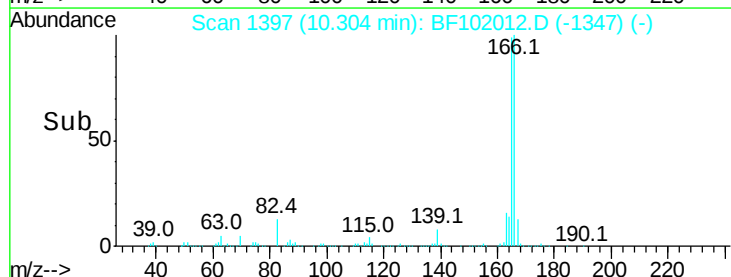
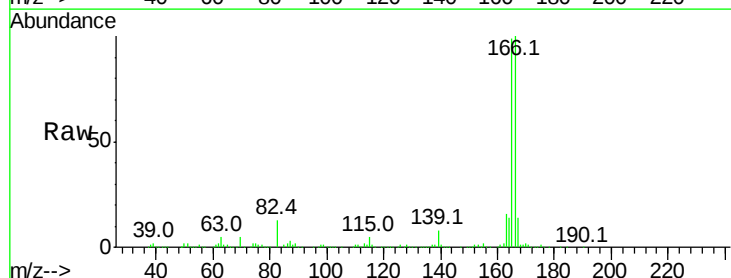
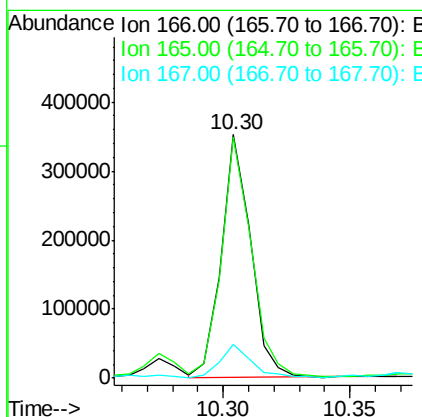
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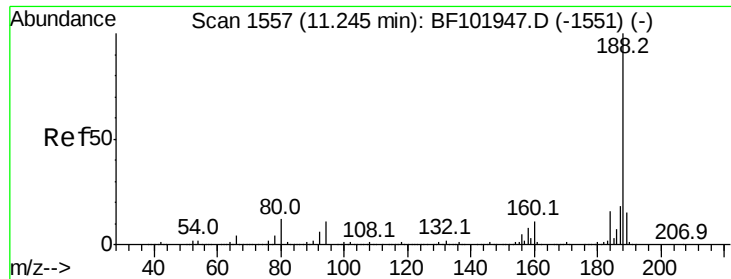
Sohil
1/12/2018 10:37:00 AM



#57
Fluorene
Concen: 11.241 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	281578		
165	98.8	79.8	119.8	
167	13.7	10.6	16.0	





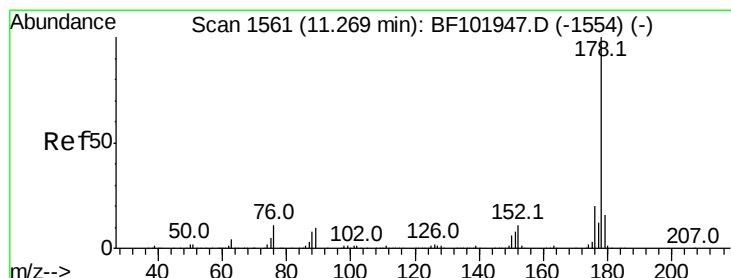
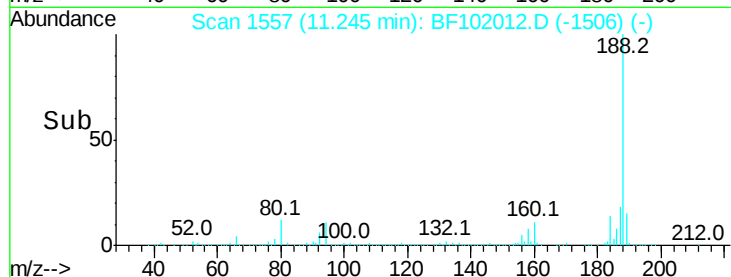
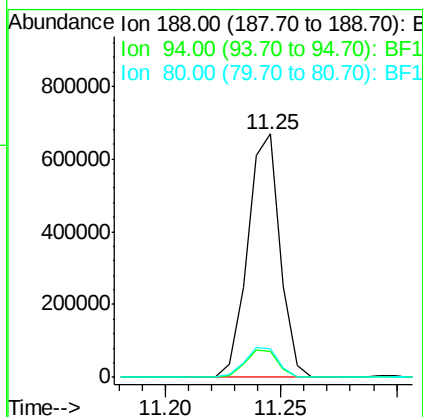
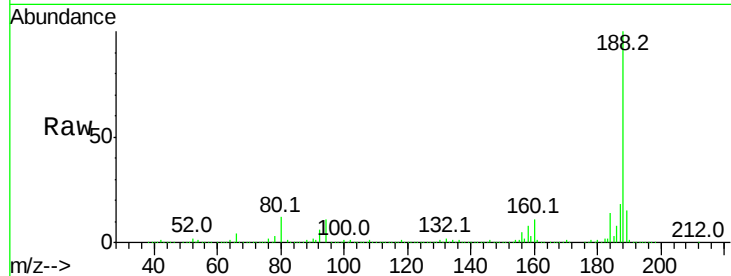
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1557
Delta R.T. 0.00 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Instrument :
BNA_F
ClientSampleId :
WC-7317-02

Tot Ion	Ratio	Resp	Lower	Upper
188	100	652997		
94	10.7		8.5	12.7
80	11.5		9.2	13.8

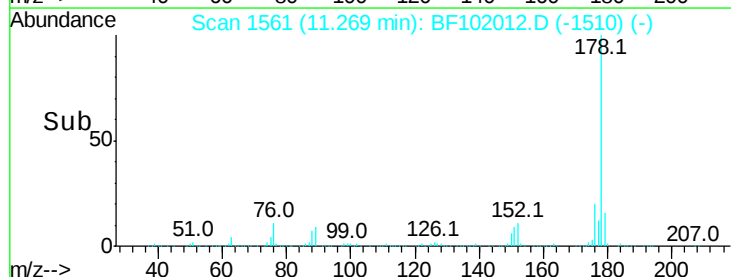
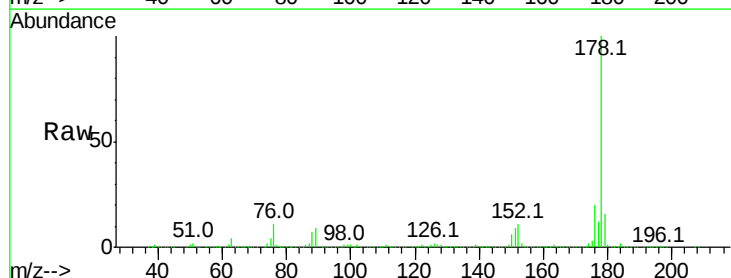
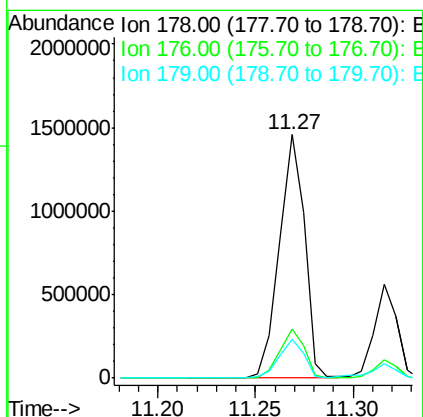
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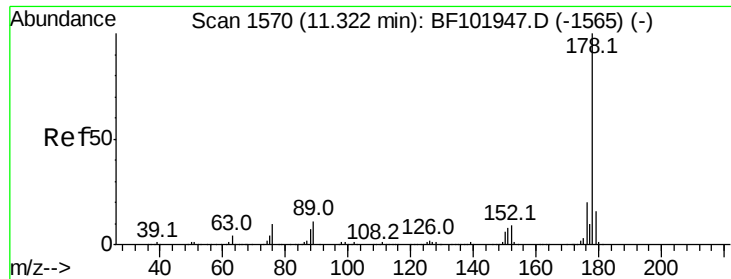
Sohil
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#70
Phenanthrene
Concen: 34.237 ng
RT: 11.27 min Scan# 1561
Delta R.T. 0.00 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1305920		
176	20.0		15.8	23.8
179	15.8		13.0	19.6





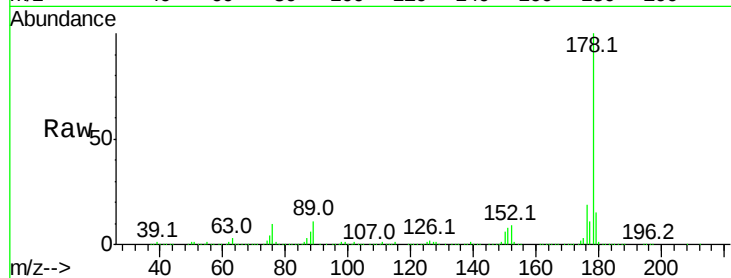
#71
 Anthracene
 Concen: 11.451 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

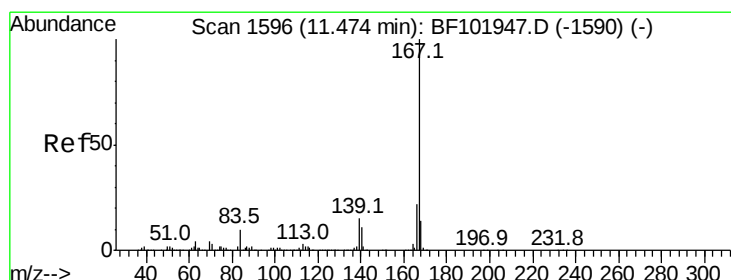
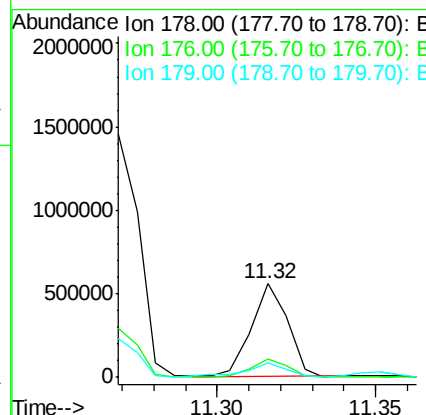
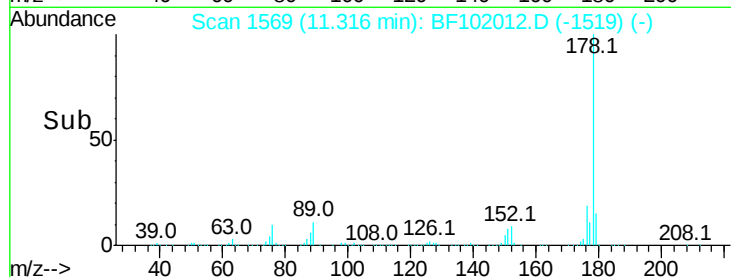
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.2	12.6	19.0

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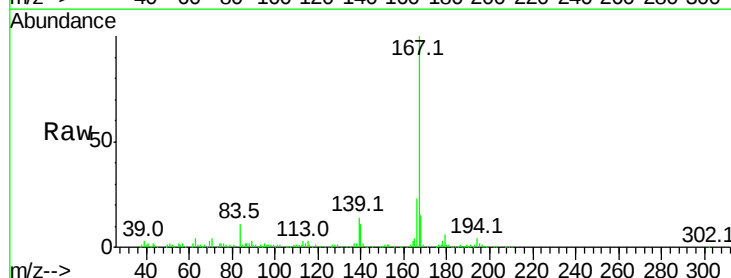


Abundance Ion 178.00 (177.70 to 178.70): E
 2000000
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

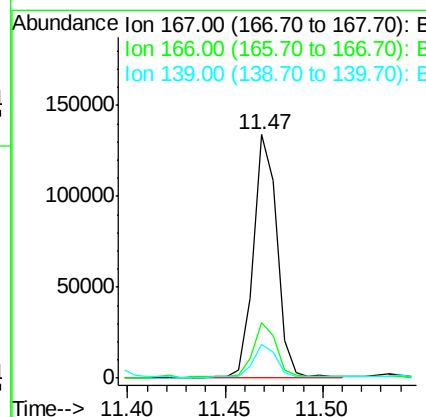
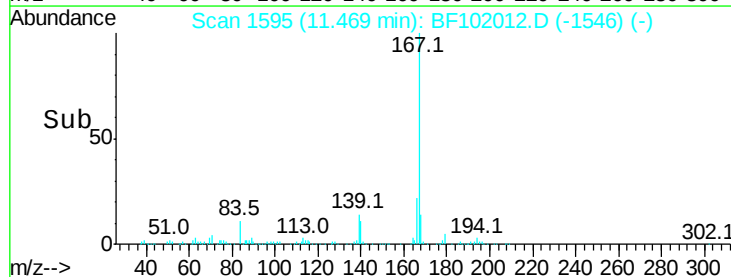


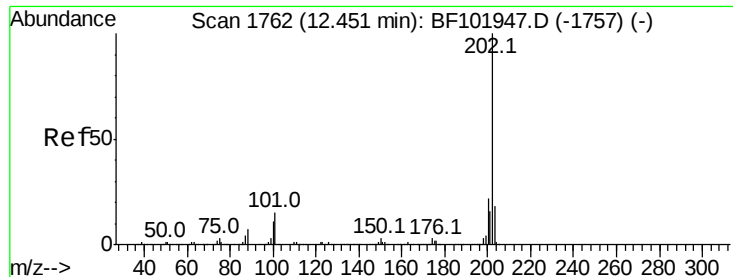
#72
 Carbazole
 Concen: 2.936 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.01 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.6	26.4
139	13.8	10.9	16.3



Abundance Ion 167.00 (166.70 to 167.70): E
 150000
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 26.196 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.01 min

Lab File: BF102012.D

Acq: 11 Jan 2018 11:50

Instrument :

BNA_F

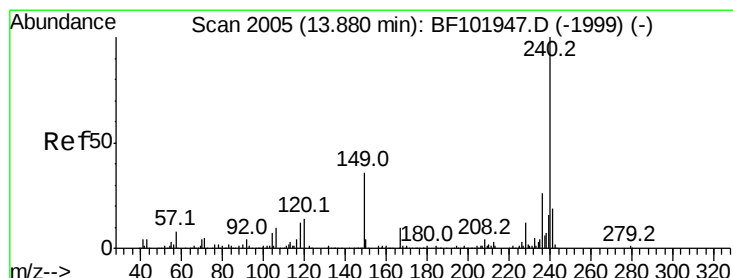
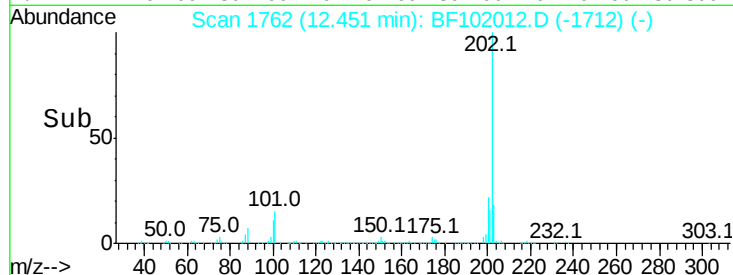
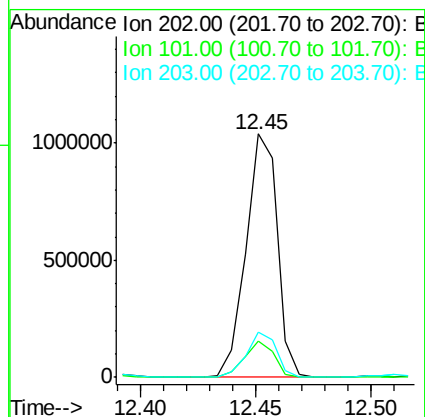
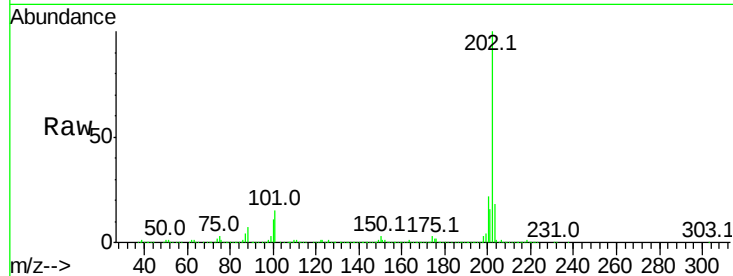
ClientSampleId :

WC-7317-02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	14.8	0.0	34.1		
203	18.4	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.000 ng

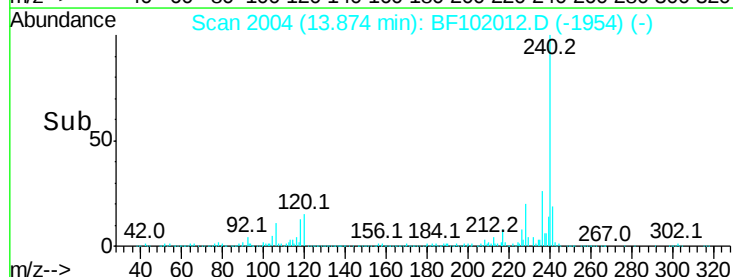
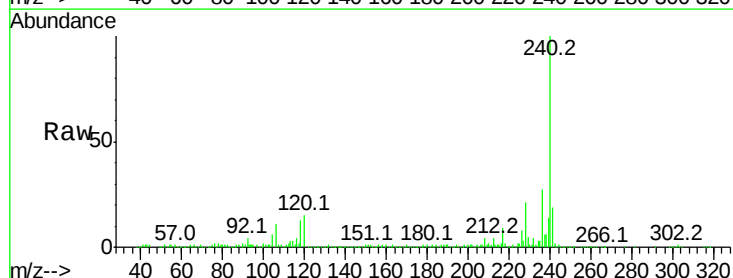
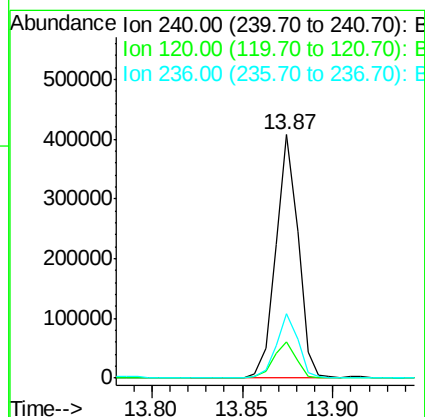
RT: 13.87 min Scan# 2004

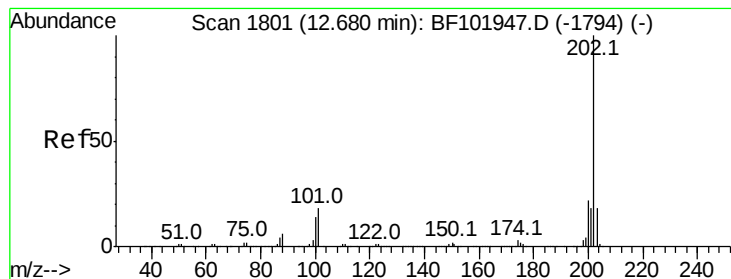
Delta R.T. -0.01 min

Lab File: BF102012.D

Acq: 11 Jan 2018 11:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	14.7	9.5	14.3#		
236	26.6	20.7	31.1		





#77

Pvrene

Concen: 31.068 ng

RT: 12.68 min Scan# 1801

Delta R.T. 0.00 min

Lab File: BF102012.D

Acq: 11 Jan 2018 11:50

Instrument :

BNA_F

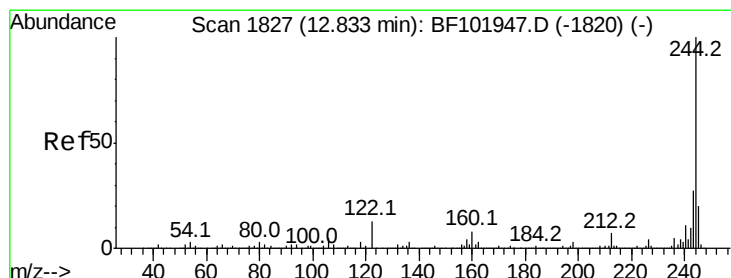
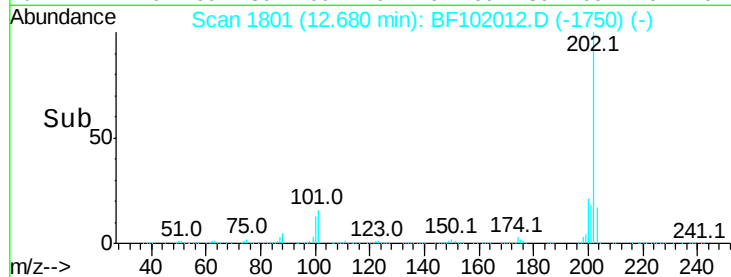
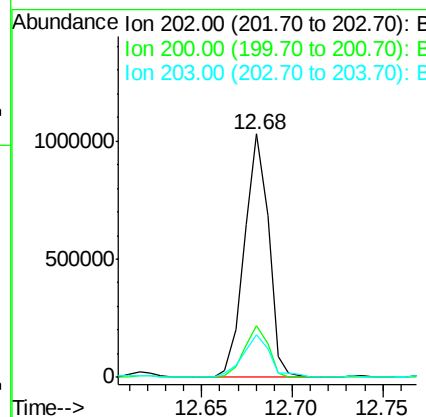
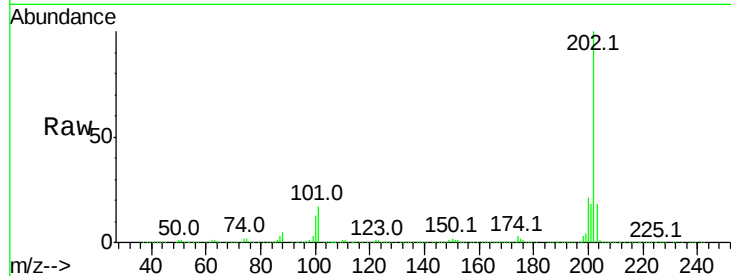
ClientSampleId :

WC-7317-02

Tot Ion:	202	Resp:	951207
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.4	26.2
203	17.8	14.3	21.5

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#78

Terphenyl-d14

Concen: 1.214 ng

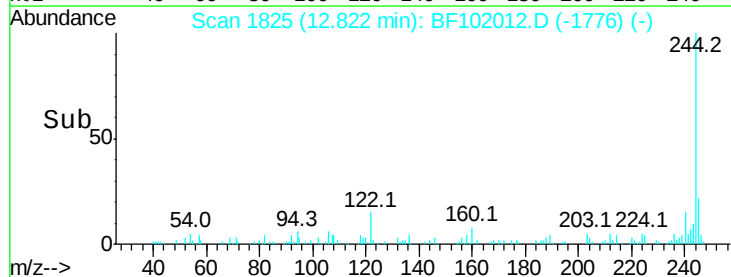
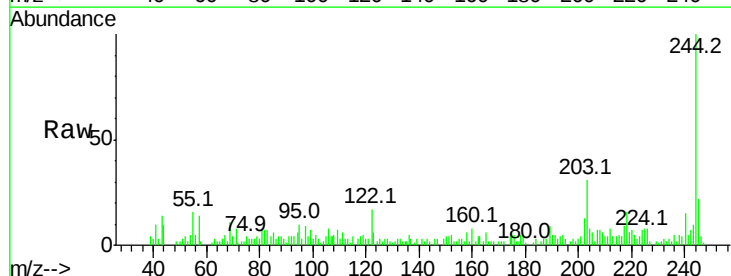
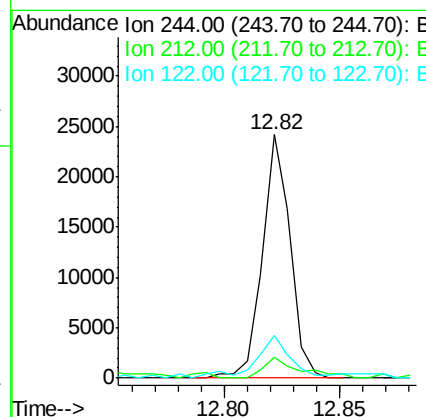
RT: 12.82 min Scan# 1825

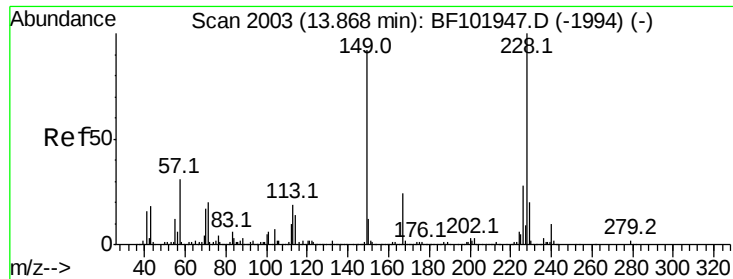
Delta R.T. -0.01 min

Lab File: BF102012.D

Acq: 11 Jan 2018 11:50

Tgt Ion:	244	Resp:	20259
Ion Ratio	Lower	Upper	
244	100		
212	8.4	5.4	8.0#
122	17.4	11.0	16.4#





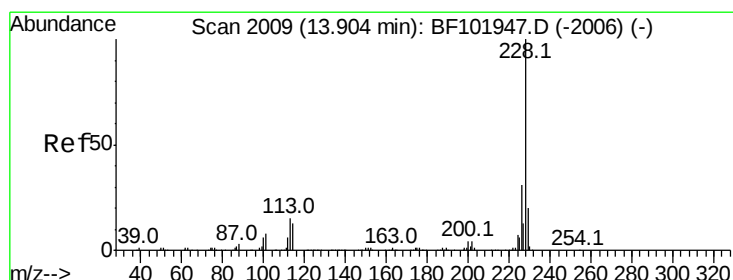
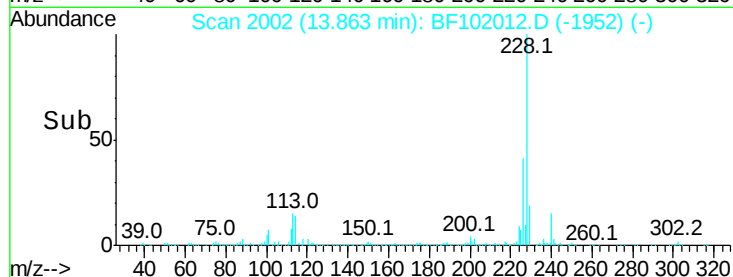
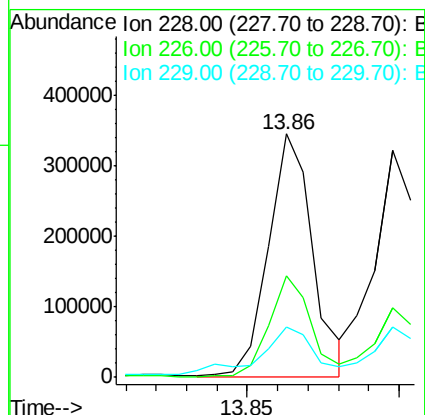
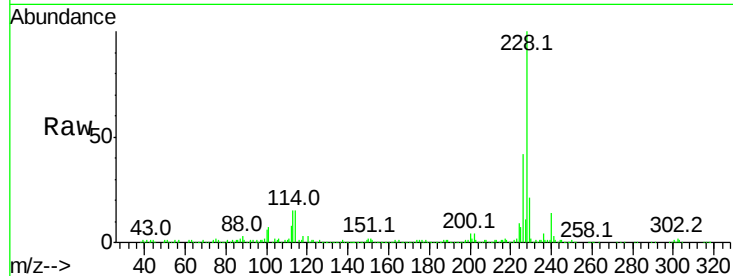
#80
Benzo(a)anthracene
Concen: 16.187 ng
RT: 13.86 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Instrument :
BNA_F
ClientSampleId :
WC-7317-02

Tot Ion	Ratio	Lower	Upper
228	100		
226	41.7	22.6	33.8#
229	20.5	15.8	23.6

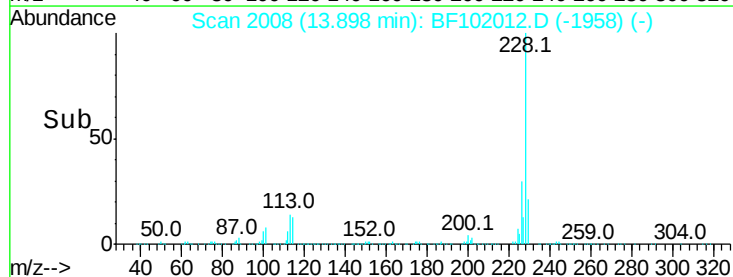
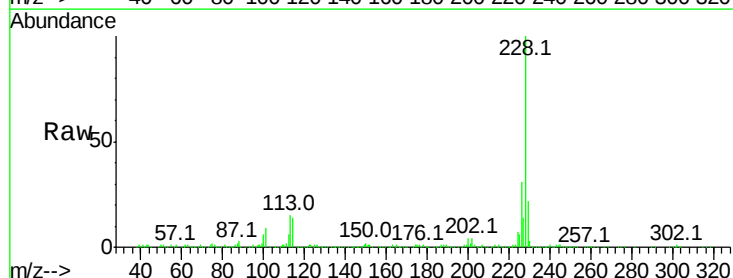
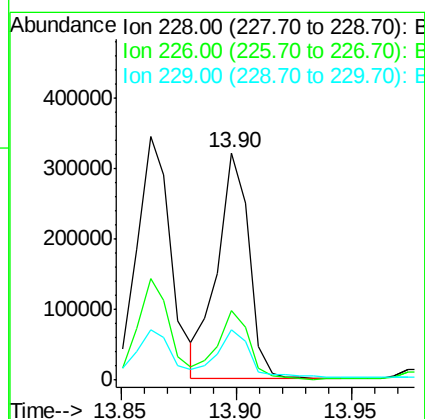
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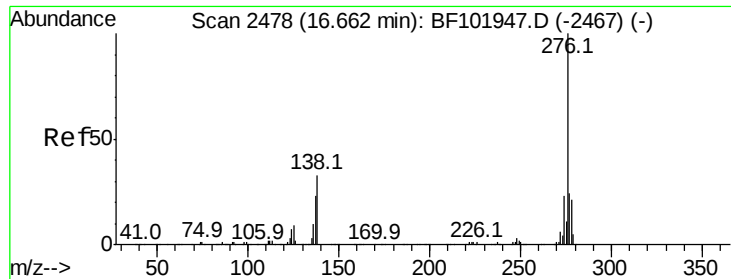
Sohil
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#82
Chrysene
Concen: 13.229 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	22.3	16.2	24.4





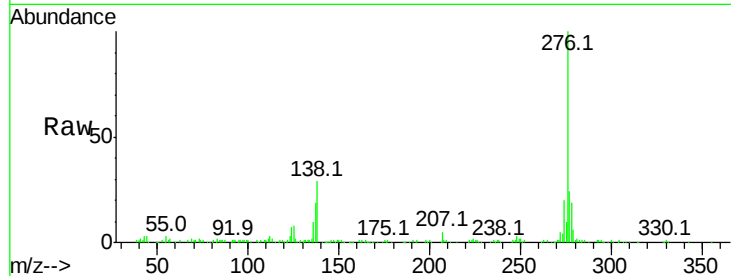
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.337 ng
 RT: 16.66 min Scan# 2478
 Delta R.T. -0.01 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.8	25.0	37.6
277	23.5	20.1	30.1

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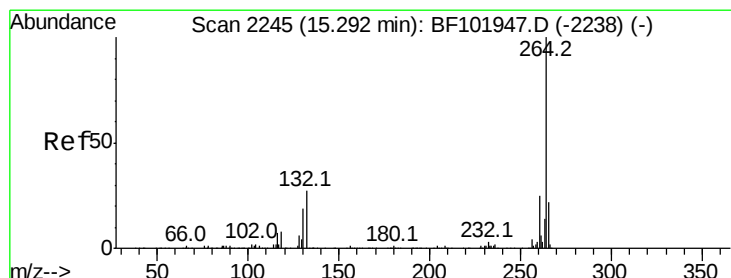
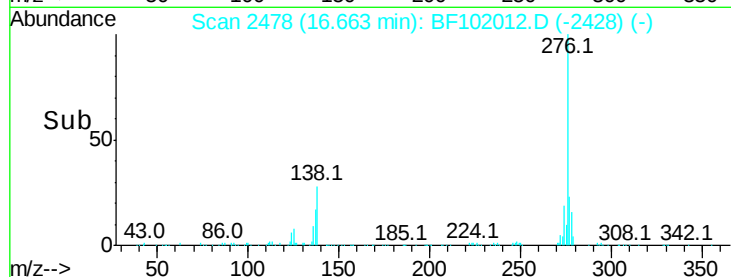
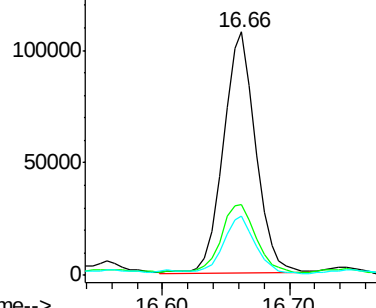


Abundance

Ion 276.00 (275.70 to 276.70): E

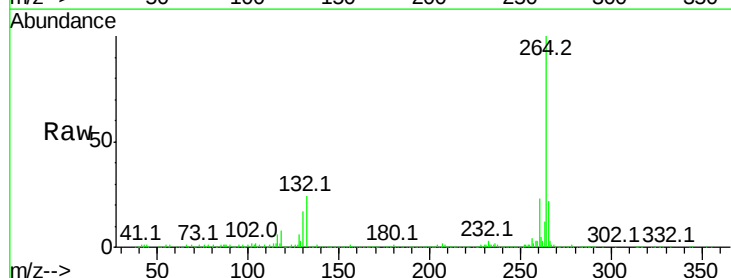
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.29 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	22.3	17.5	26.3

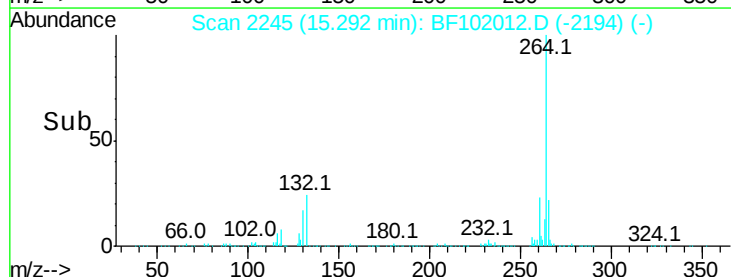
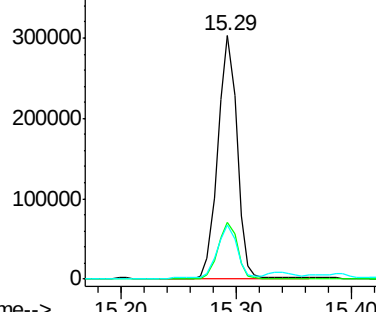


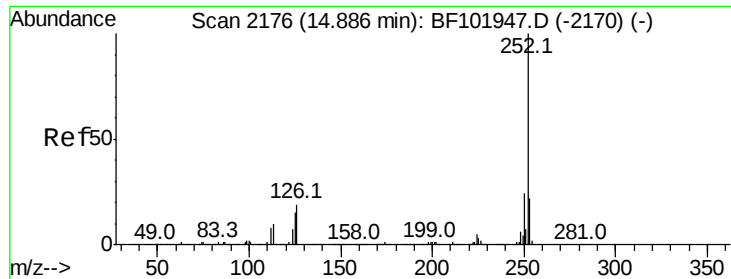
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 14.743 ng m

RT: 14.89 min Scan# 2176

Delta R.T. 0.00 min

Lab File: BF102012.D

Acq: 11 Jan 2018 11:50

Instrument :

BNA_F

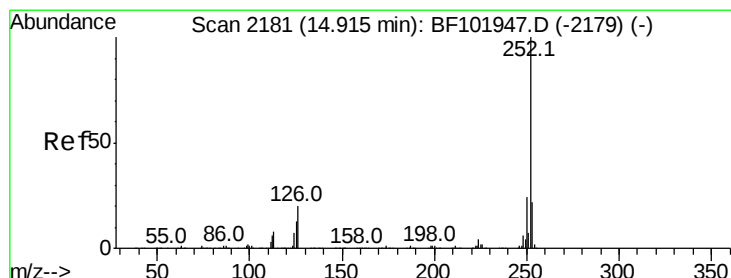
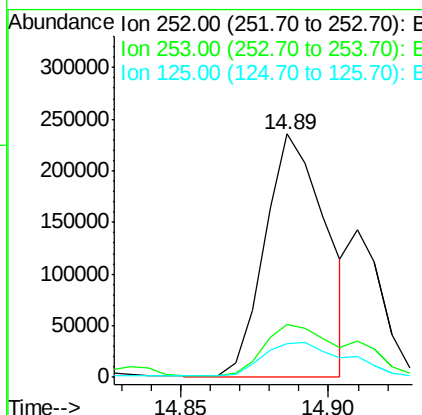
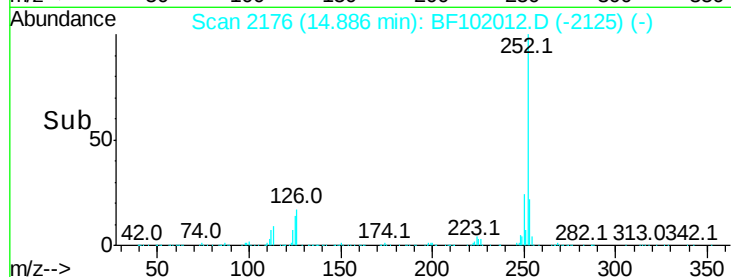
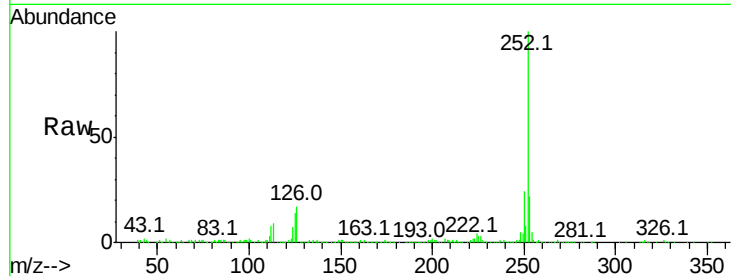
ClientSampleId :

WC-7317-02

Tot Ion:	252	Resp:	338756
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.0	25.6
125	14.1	9.0	13.6#

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#88

Benzo(k)fluoranthene

Concen: 5.020 ng m

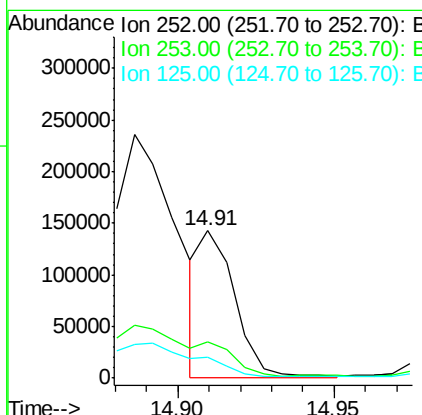
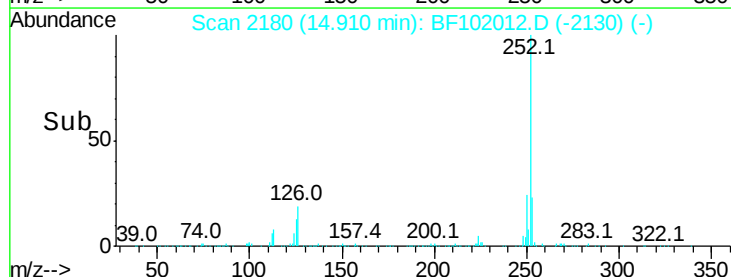
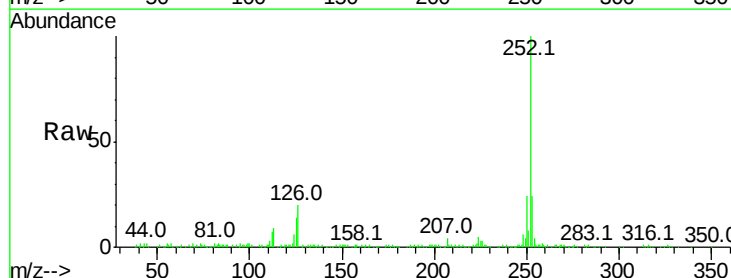
RT: 14.91 min Scan# 2180

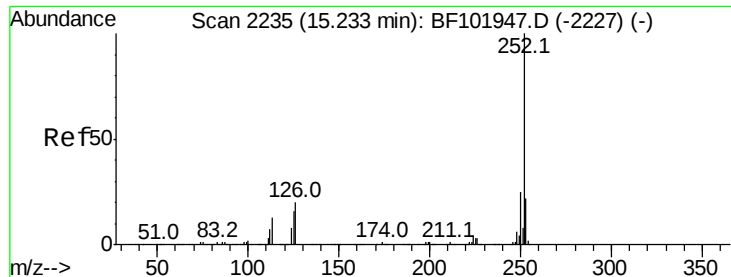
Delta R.T. -0.01 min

Lab File: BF102012.D

Acq: 11 Jan 2018 11:50

Tgt Ion:	252	Resp:	111283
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.9	26.9
125	14.3	10.2	15.2





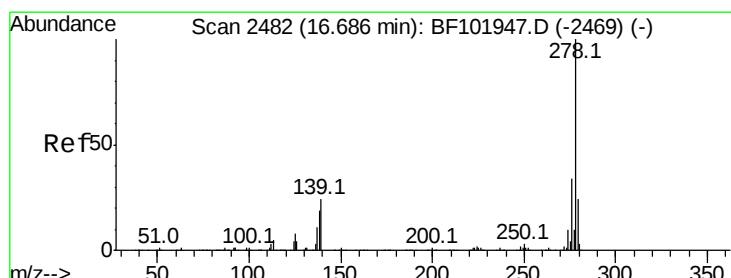
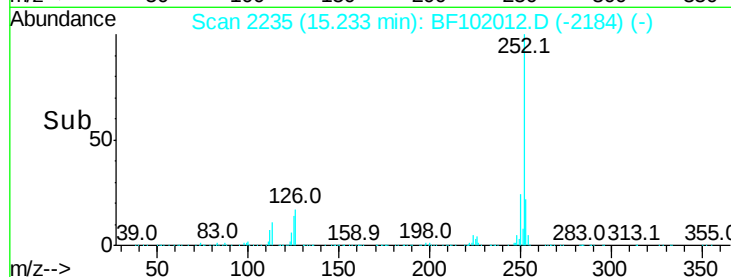
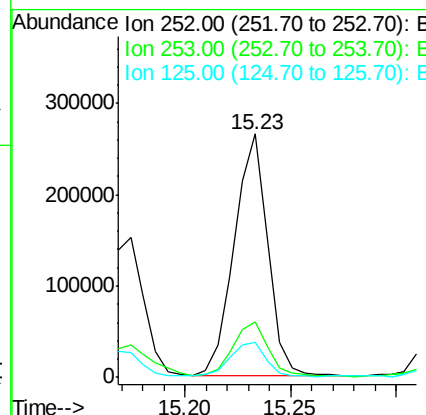
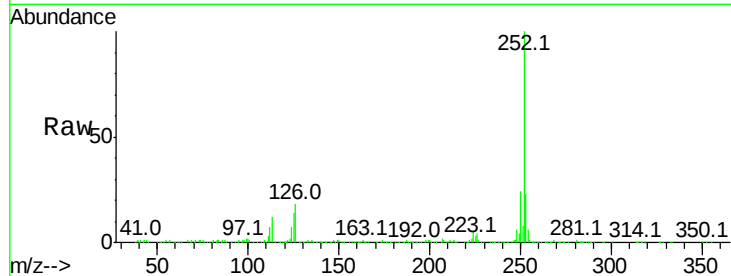
#89
Benzo(a)pyrene
Concen: 14.062 ng
RT: 15.23 min Scan# 2235
Delta R.T. 0.00 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Instrument :
BNA_F
ClientSampleId :
WC-7317-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.1	25.7
125	14.2	9.8	14.6

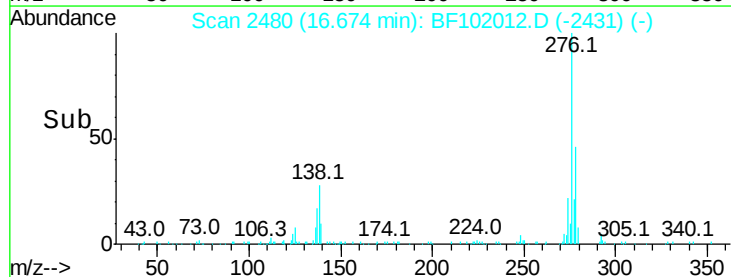
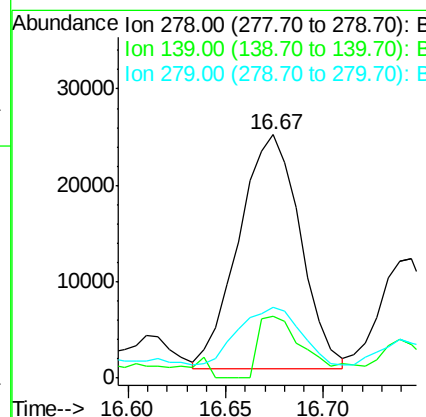
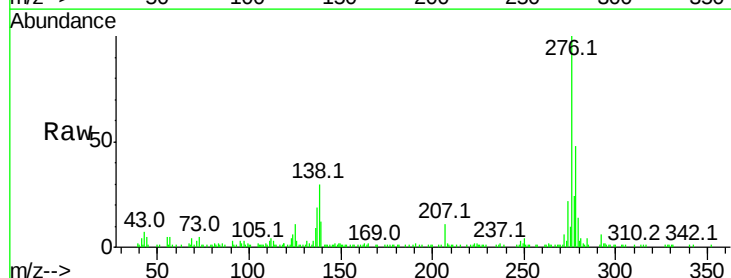
Manual Integrations
APPROVED

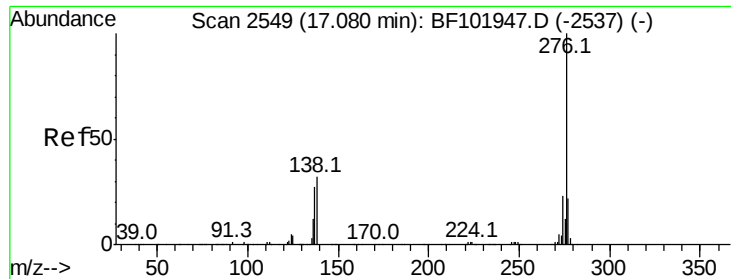
Sohil
1/12/2018 10:37:00 AM



#90
Dibenzo(a,h)anthracene
Concen: 3.215 ng
RT: 16.67 min Scan# 2480
Delta R.T. -0.01 min
Lab File: BF102012.D
Acq: 11 Jan 2018 11:50

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.2	15.9	23.9#
279	29.1	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 11.280 ng
 RT: 17.07 min Scan# 2548
 Delta R.T. -0.01 min
 Lab File: BF102012.D
 Acq: 11 Jan 2018 11:50

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.4	17.9	26.9
138	32.1	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 1/12/2018 10:37:00 AM

