

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101991.D
 Acq On : 10 Jan 2018 20:50
 Operator : SJ/JU
 Sample : J1076-08 50X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-02

Manual Integrations
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 1/11/2018 10:52:59 AM

Quant Time: Jan 11 03:59:24 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	217672	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	889061	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	381765	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	602863	20.00	ng	0.00
75) Chrysene-d12	13.87	240	334411	20.00	ng	0.00
86) Perylene-d12	15.29	264	366678	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	6033	0.39	ng	0.00
7) Phenol-d6	6.35	99	8358	0.45	ng	0.00
23) Nitrobenzene-d5	7.28	82	4730	0.31	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	1234	0.37	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	8838	0.36	ng	-0.01
78) Terphenyl-d14	12.82	244	7103	0.44	ng	-0.01
Target Compounds						
31) Naphthalene	8.03	128	1579446	35.553	ng	Qvalue 100
37) 2-Methylnaphthalene	8.72	142	407800	13.944	ng	99
48) Acenaphthylene	9.62	152	135770	3.269	ng	99
51) Acenaphthene	9.79	154	148078	5.875	ng	99
54) Dibenzofuran	9.96	168	93342	2.698	ng	# 96
57) Fluorene	10.30	166	184231	7.704	ng	98
70) Phenanthrene	11.27	178	802014	22.775	ng	99
71) Anthracene	11.32	178	238414	6.675	ng	99
74) Fluoranthene	12.45	202	559168	16.139	ng	99
77) Pyrene	12.68	202	533137	18.036	ng	99
80) Benzo(a)anthracene	13.86	228	187534m	8.789	ng	
82) Chrysene	13.90	228	157401	7.075	ng	98
85) Indeno(1,2,3-cd)pyrene	16.66	276	100013	6.176	ng	99
87) Benzo(b)fluoranthene	14.89	252	189443m	7.924	ng	
88) Benzo(k)fluoranthene	14.91	252	62992m	2.731	ng	
89) Benzo(a)pyrene	15.23	252	170594	7.929	ng	97
91) Benzo(a,h,i)perylene	17.07	276	101526	5.870	ng	# 92

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

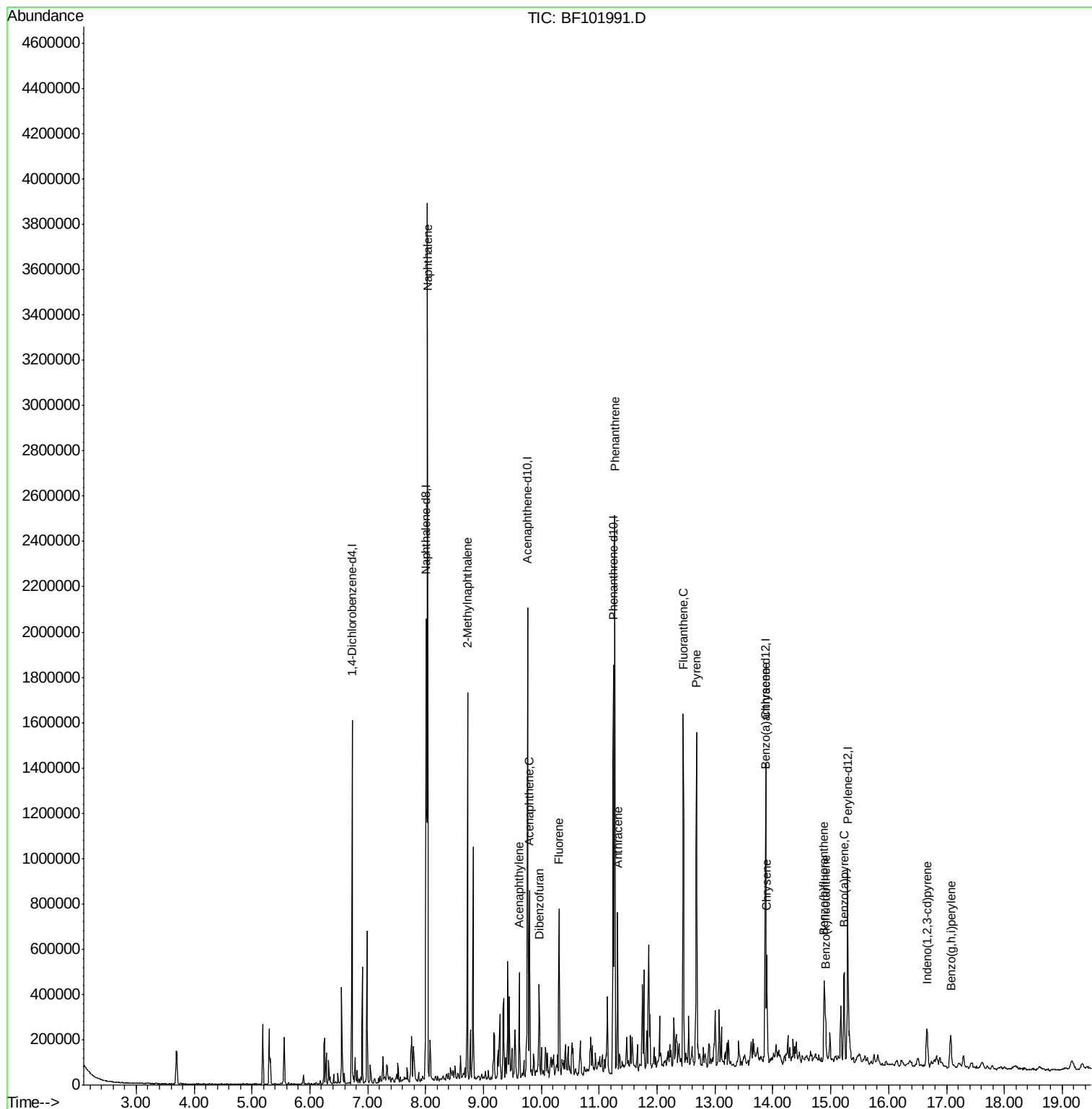
Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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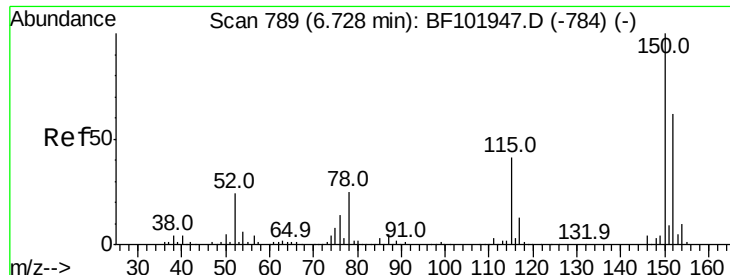
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#1

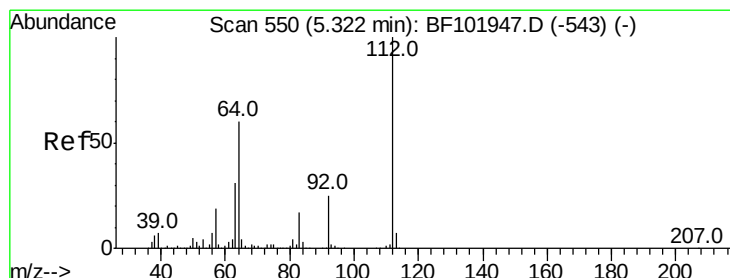
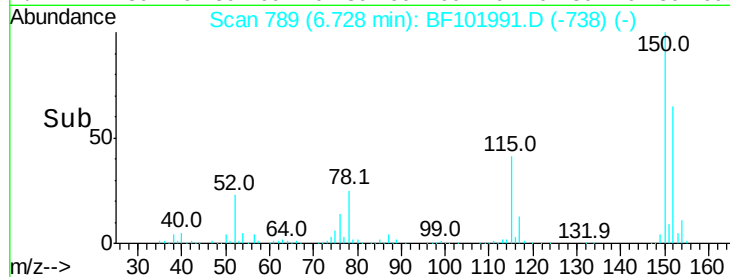
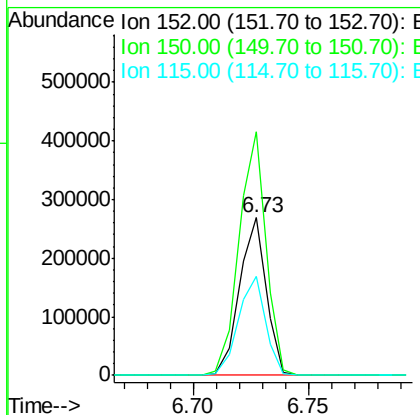
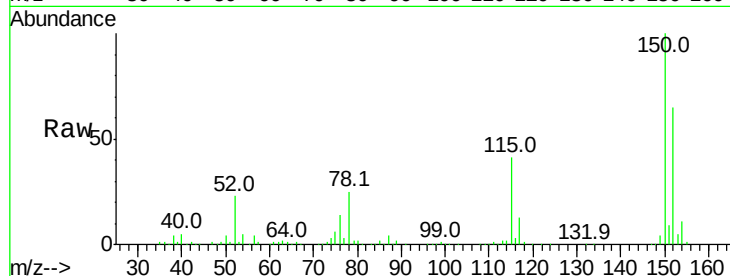
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Instrument :
BNA_F
ClientSampleId :
WC-12R12-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.6	186.8
115	62.5	50.1	75.1

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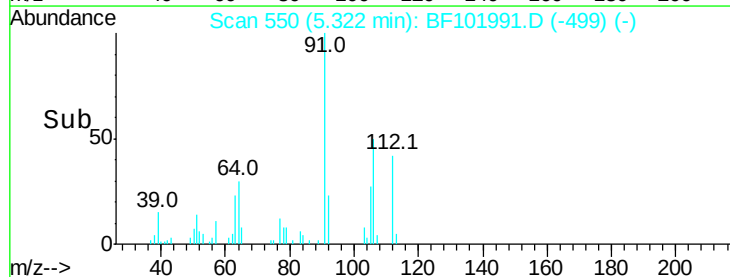
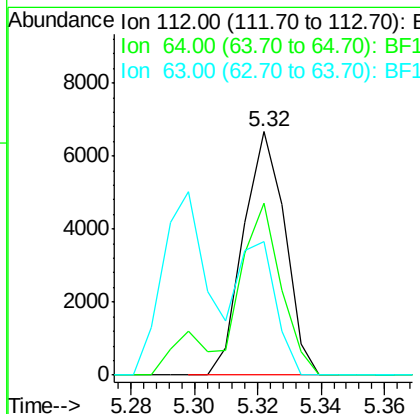
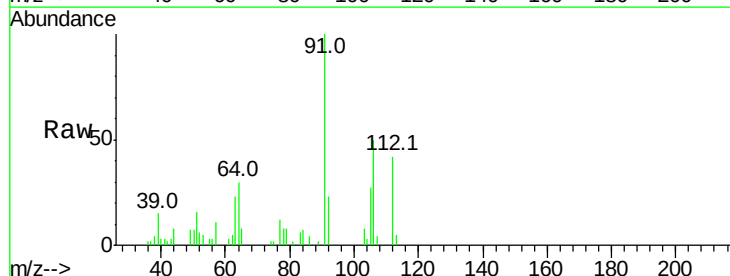
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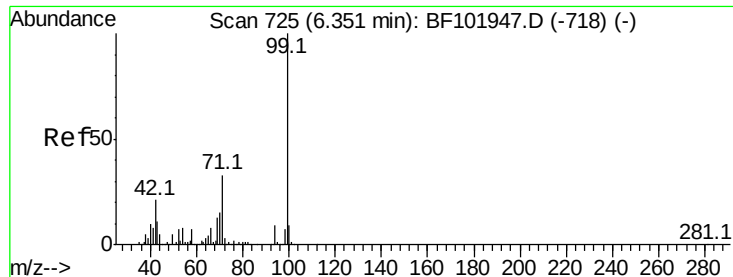


#5

2-Fluorophenol
Concen: 0.391 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.6	47.9	71.9
63	54.8	23.7	35.5





#7

Phenol-d6

Concen: 0.454 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101991.D

Acq: 10 Jan 2018 20:50

Instrument :

BNA_F

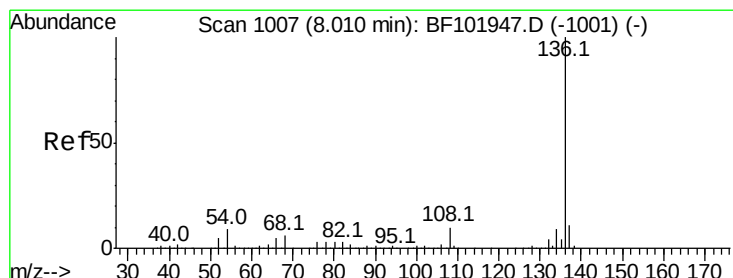
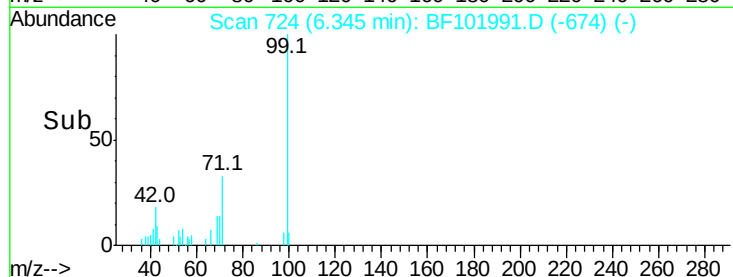
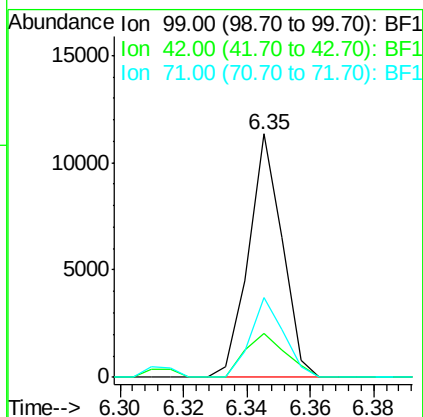
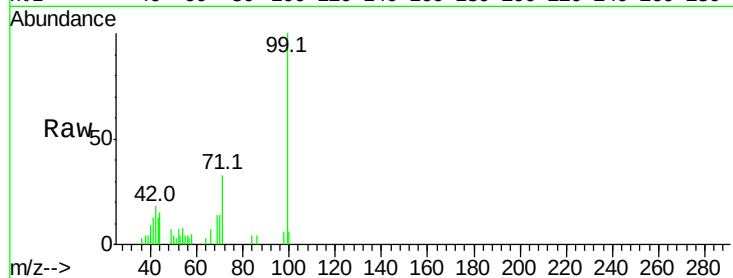
ClientSampleId :

WC-12R12-02

Tot Ion:	99	Resp:	8358
Ion	Ratio	Lower	Upper
99	100		
42	18.1	14.5	21.7
71	32.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

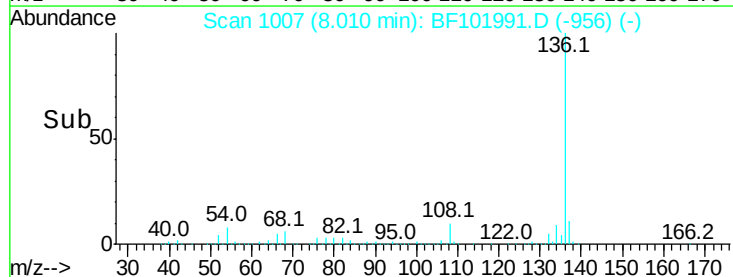
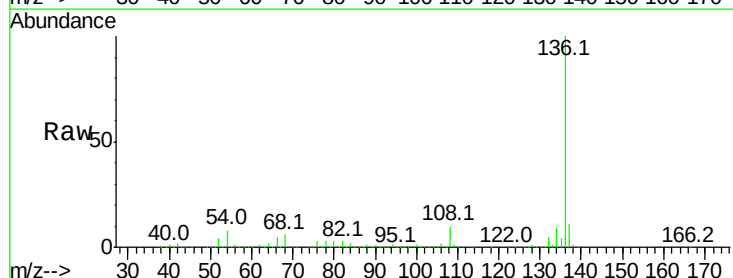
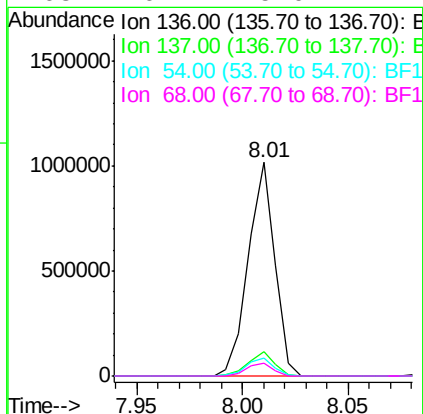
RT: 8.01 min Scan# 1007

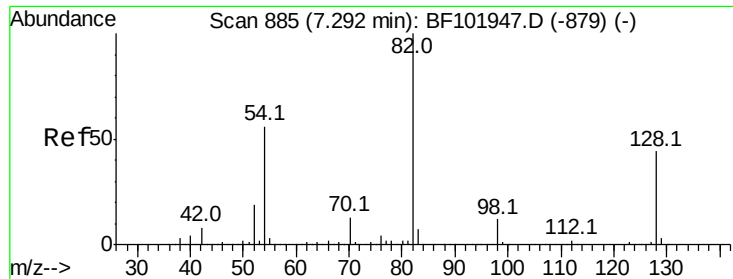
Delta R.T. -0.00 min

Lab File: BF101991.D

Acq: 10 Jan 2018 20:50

Tgt Ion:	136	Resp:	889061
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.3	6.6	9.8
68	6.1	5.0	7.4





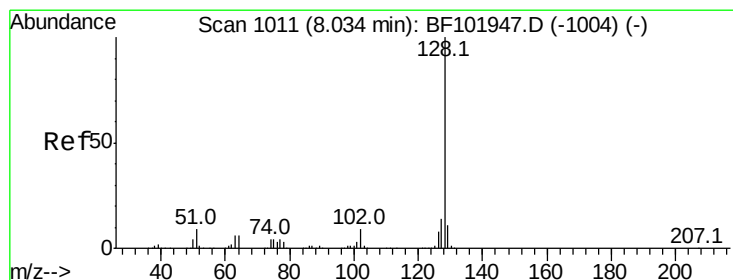
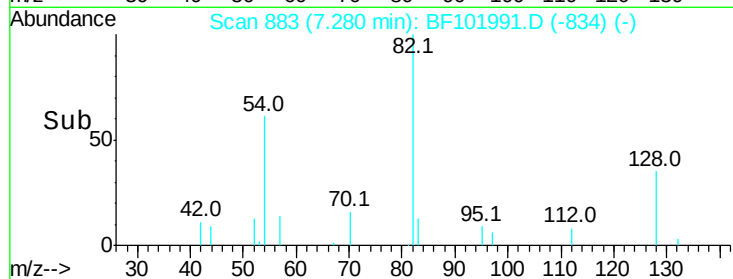
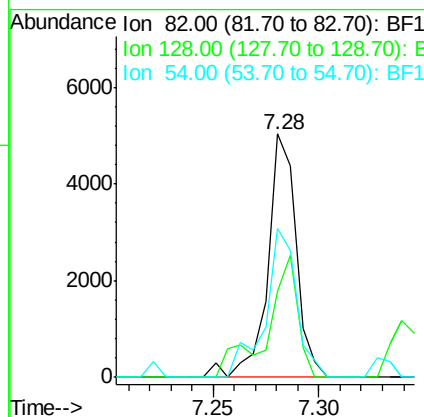
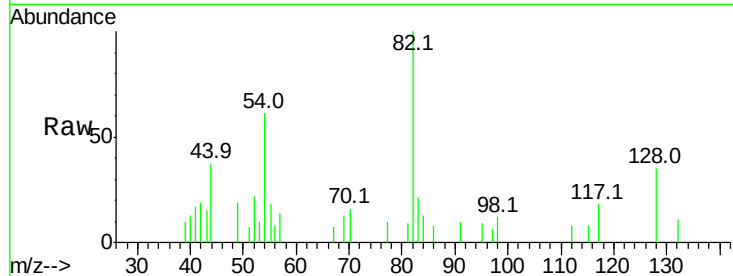
#23
 Nitrobenzene-d5
 Concen: 0.313 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF101991.D
 Acq: 10 Jan 2018 20:50

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-02

Tot Ion	82	Resp	4730
Ion Ratio	100	Lower	Upper
128	35.5	36.1	54.1#
54	61.1	41.4	62.2

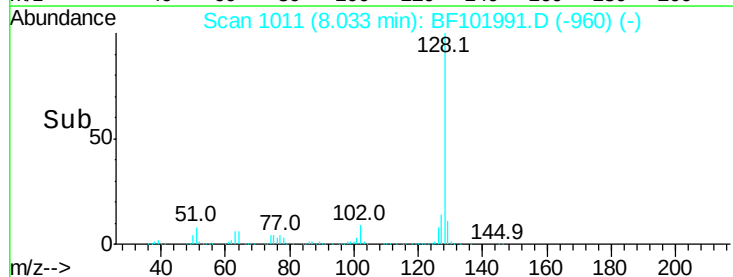
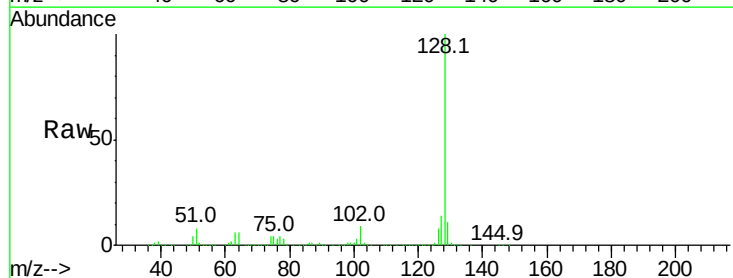
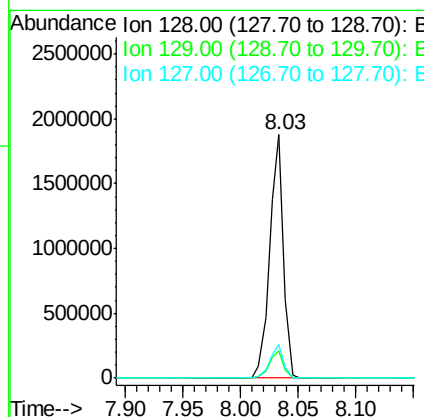
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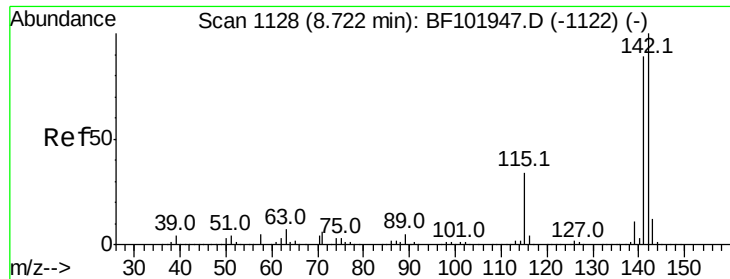
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#31
 Naphthalene
 Concen: 35.553 ng
 RT: 8.03 min Scan# 1011
 Delta R.T. -0.00 min
 Lab File: BF101991.D
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Tgt Ion	128	Resp	1579446
Ion Ratio	100	Lower	Upper
129	11.3	8.8	13.2
127	13.7	10.9	16.3





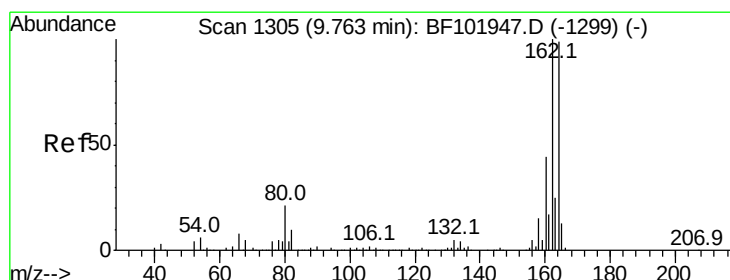
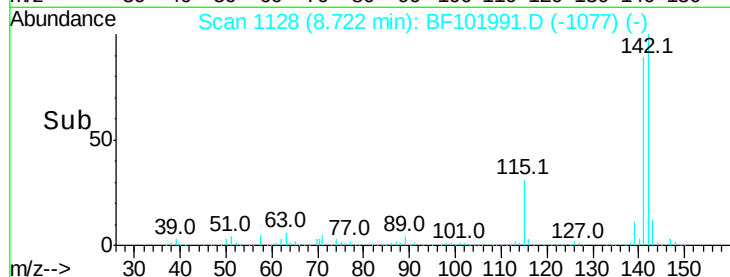
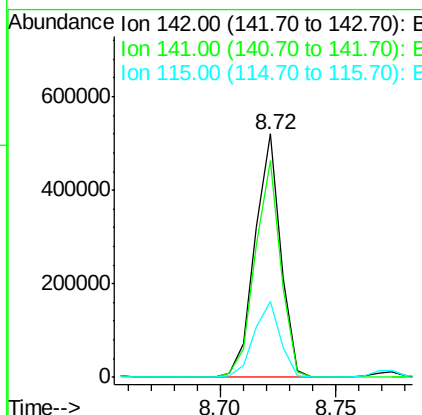
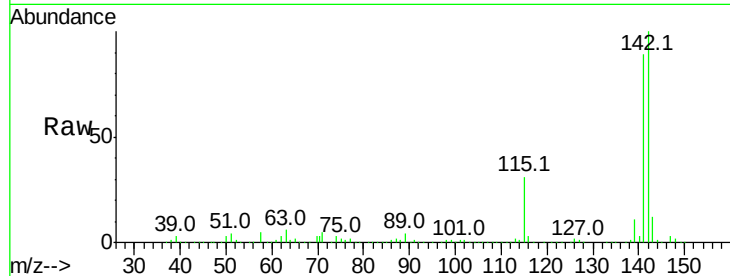
#37
2-Methylnaphthalene
Concen: 13.944 ng
RT: 8.72 min Scan# 1128
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Instrument :
BNA_F
ClientSampleId :
WC-12R12-02

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.8	106.2
115	31.2	26.1	39.1

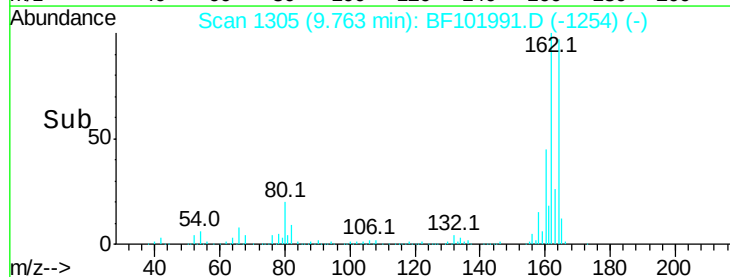
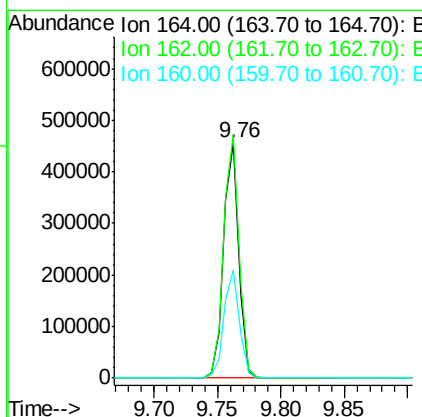
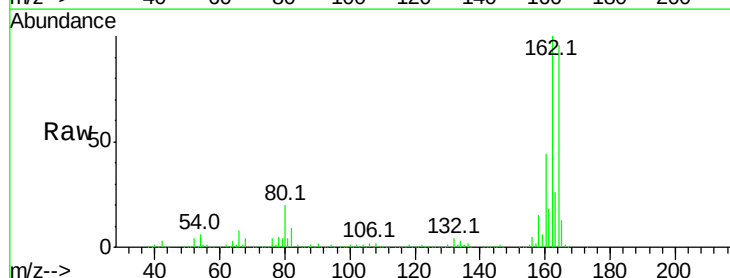
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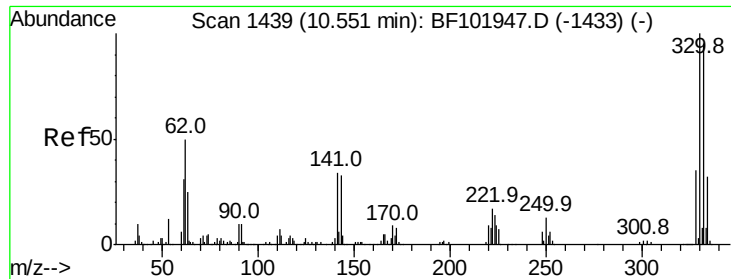
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	86.1	129.1
160	45.9	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 0.370 ng

RT: 10.54 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF101991.D

Acq: 10 Jan 2018 20:50

Instrument :

BNA_F

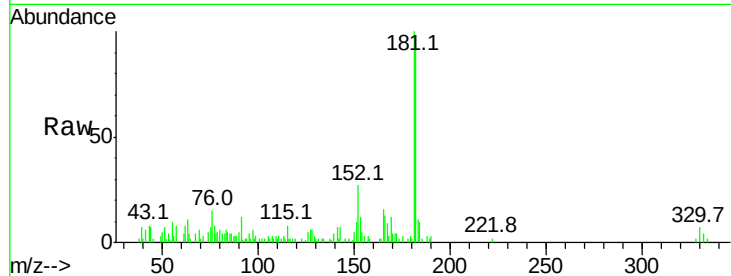
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WC-12R12-02

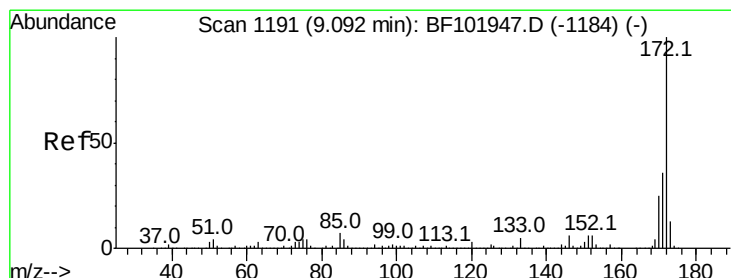
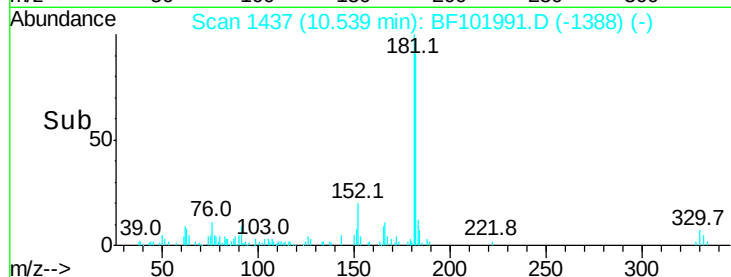
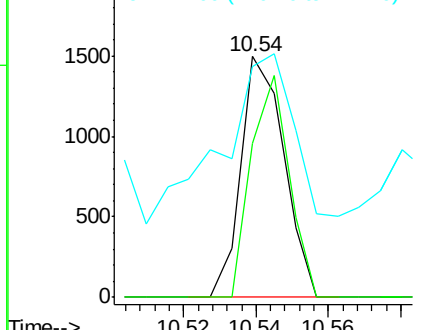
Tot Ion:	330	Resp:	1234
Ion Ratio	Lower	Upper	
330	100		
332	80.9	77.0	115.6
141	116.9	29.9	44.9#

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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: 0.362 ng

RT: 9.08 min Scan# 1189

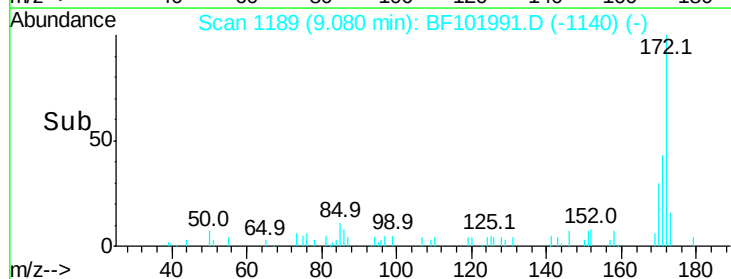
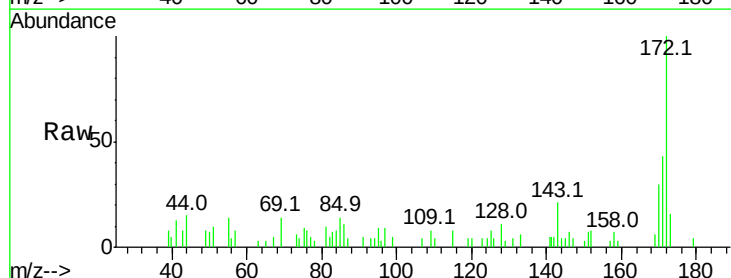
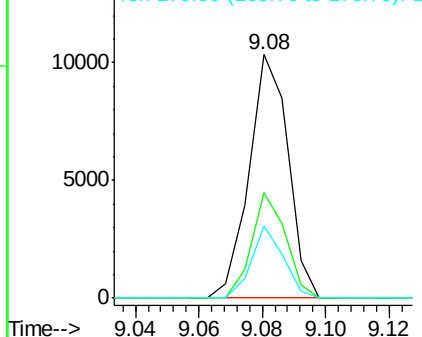
Delta R.T. -0.01 min

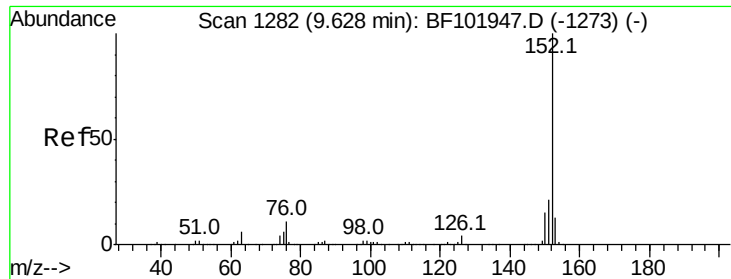
Lab File: BF101991.D

Acq: 10 Jan 2018 20:50

Tgt Ion:	172	Resp:	8838
Ion Ratio	Lower	Upper	
172	100		
171	43.3	29.7	44.5
170	29.7	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





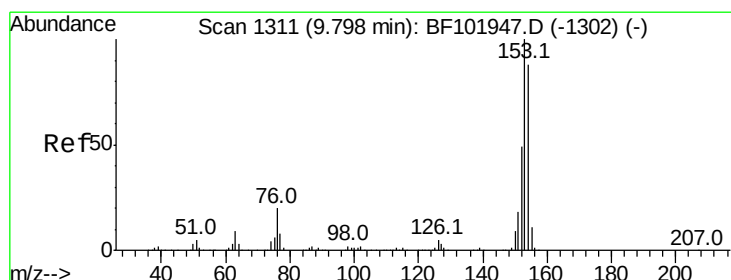
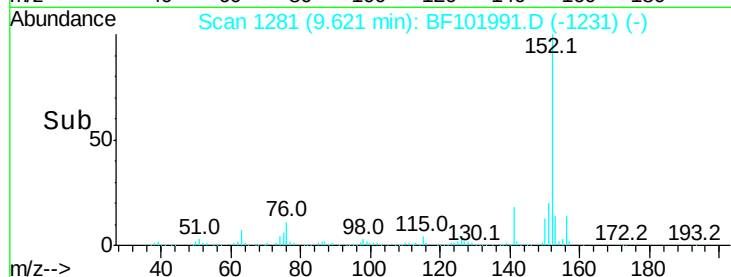
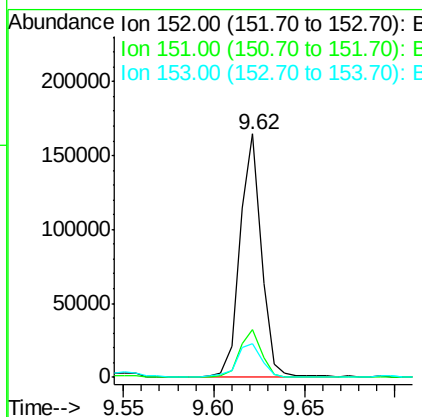
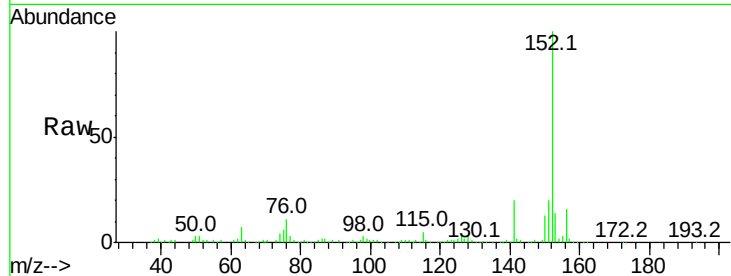
#48
Acenaphthylene
Concen: 3.269 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Instrument :
BNA_F
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WC-12R12-02

Tot Ion	Ratio	Resp	Lower	Upper
152	100	135770		
151	19.9		16.3	24.5
153	14.0		10.7	16.1

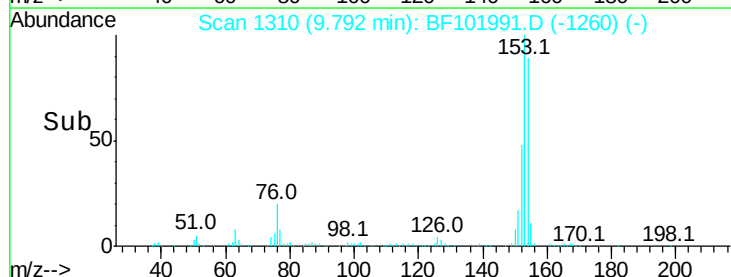
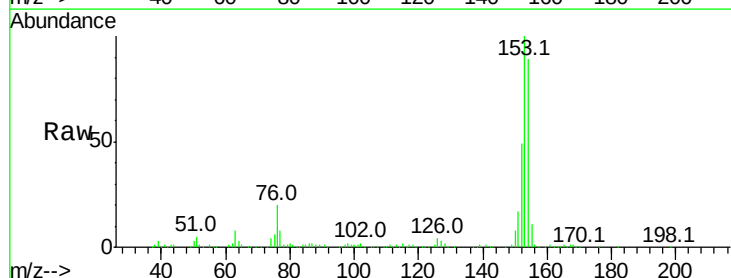
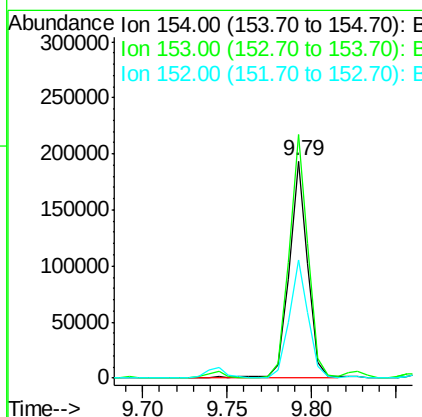
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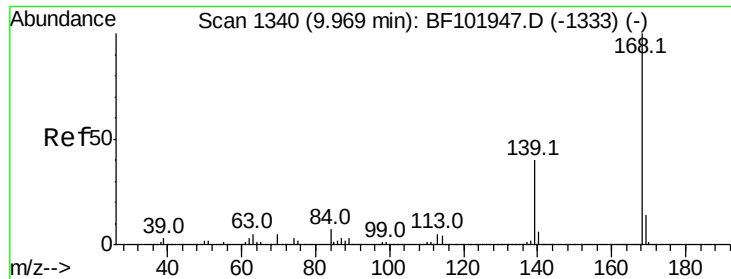
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#51
Acenaphthene
Concen: 5.875 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	148078		
153	112.1		91.2	136.8
152	54.5		43.8	65.8





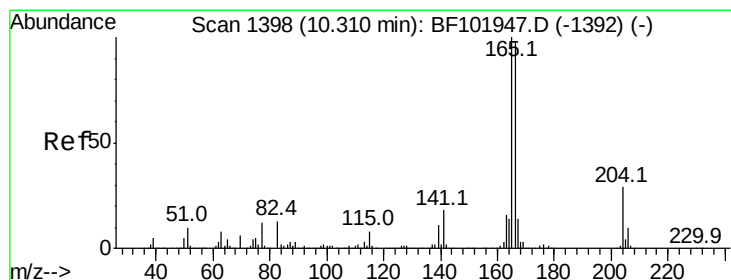
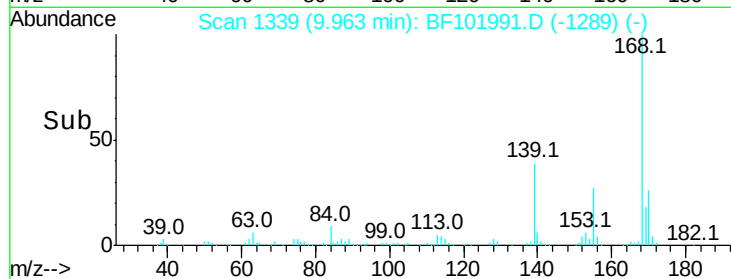
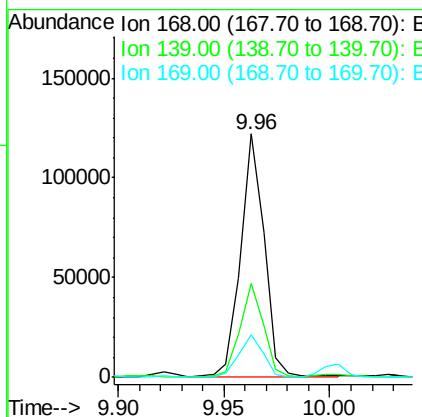
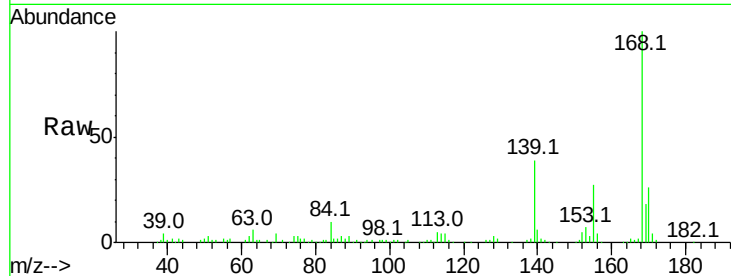
#54
Dibenzofuran
Concen: 2.698 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Instrument :
BNA_F
ClientSampleId :
WC-12R12-02

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.8	30.1	45.1
169	17.7	10.9	16.3

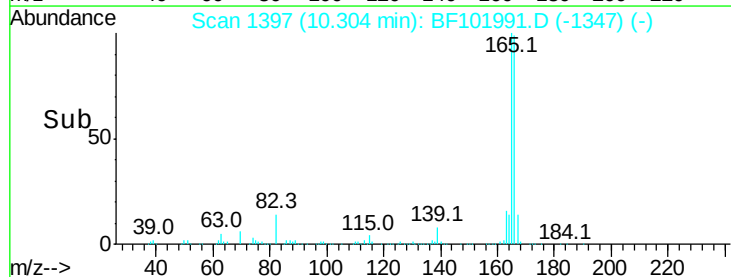
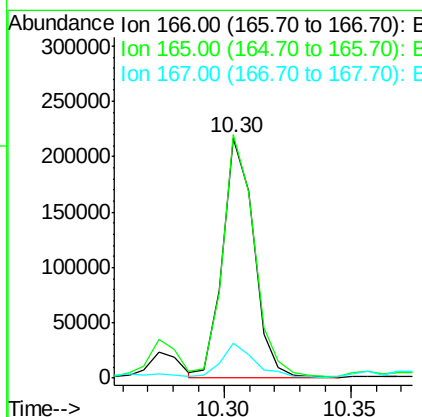
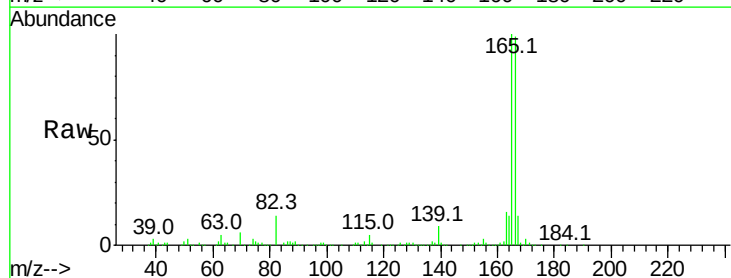
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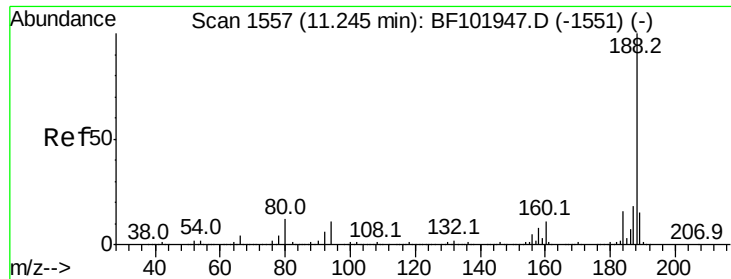
Sohil
1/11/2018 10:52:59 AM



#57
Fluorene
Concen: 7.704 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.3	79.8	119.8
167	14.4	10.6	16.0





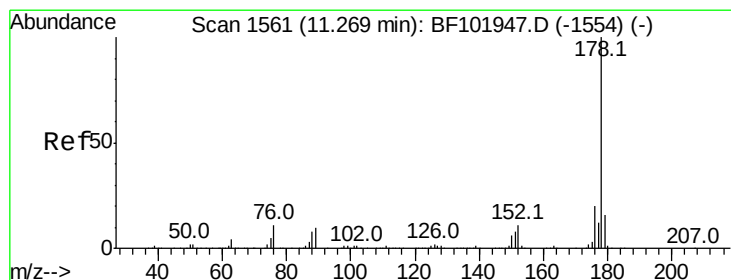
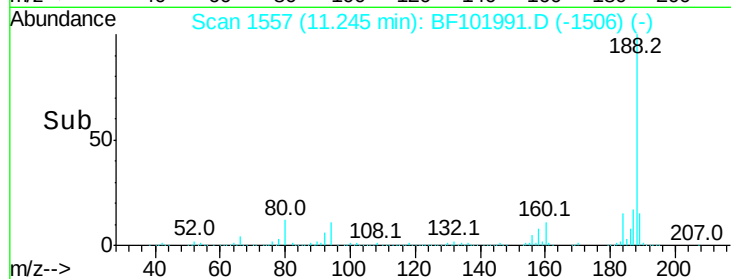
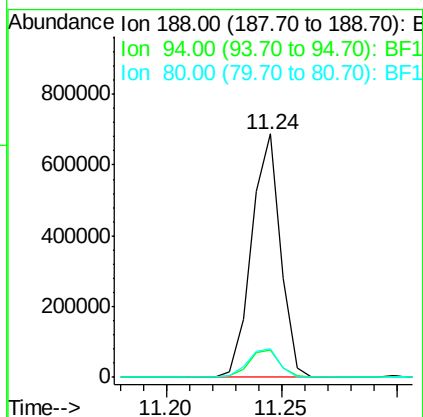
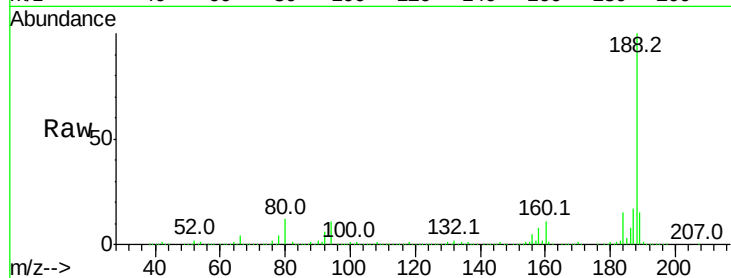
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1557
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Instrument :
BNA_F
ClientSampleId :
WC-12R12-02

Tot Ion	Ratio	Resp	Lower	Upper
188	100	602863		
94	11.2		8.5	12.7
80	11.7		9.2	13.8

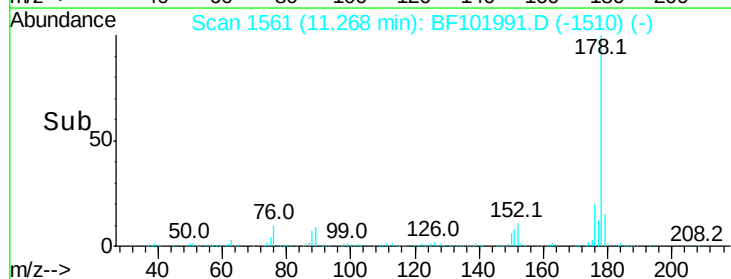
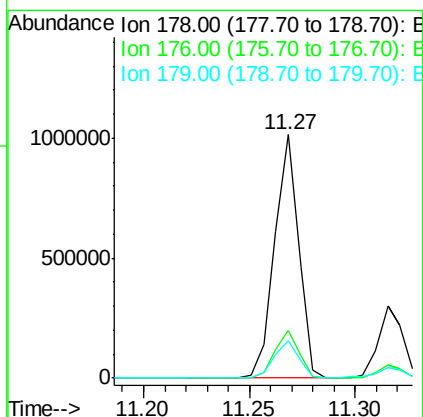
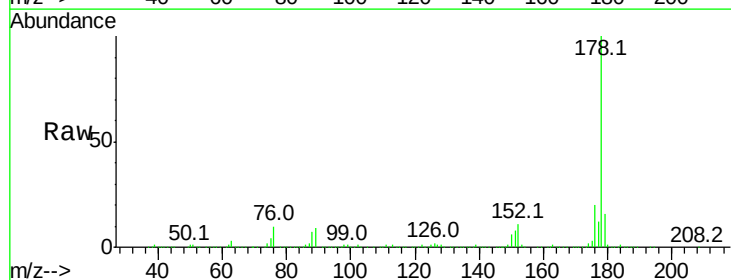
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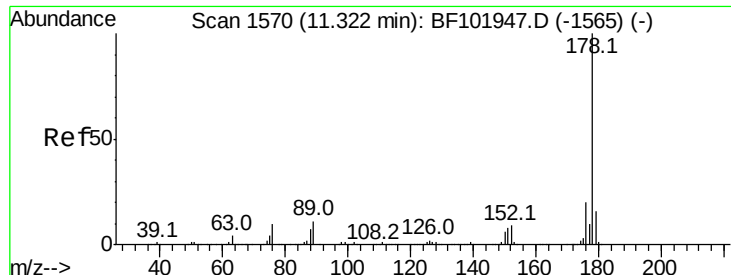
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#70
Phenanthrene
Concen: 22.775 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	802014		
176	19.7		15.8	23.8
179	15.5		13.0	19.6





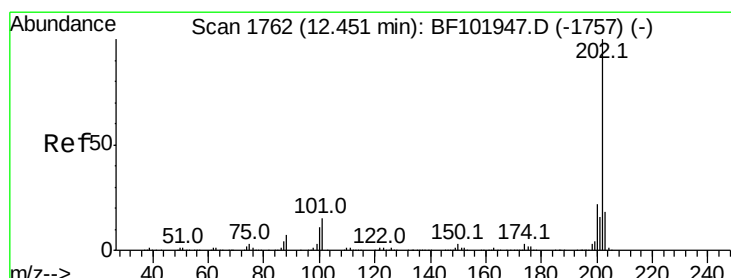
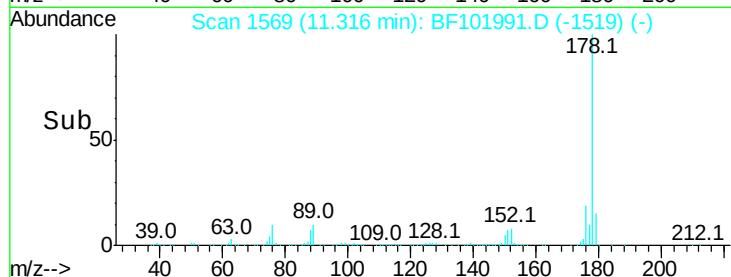
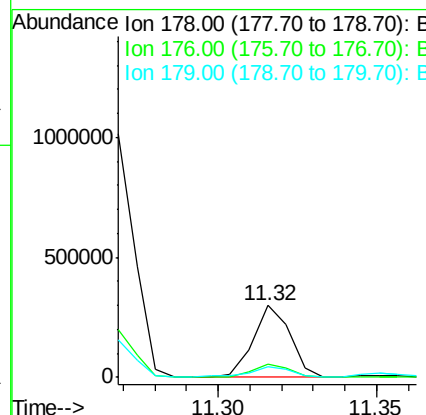
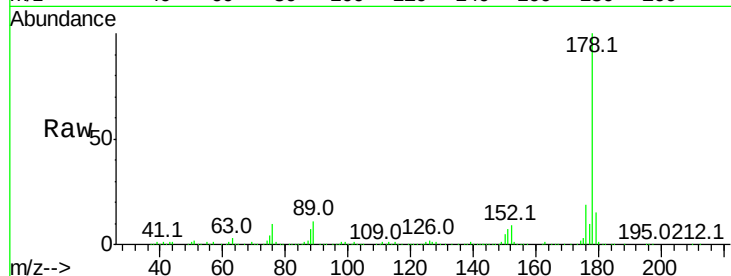
#71
 Anthracene
 Concen: 6.675 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF101991.D
 Acq: 10 Jan 2018 20:50

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-02

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.5	12.6	19.0

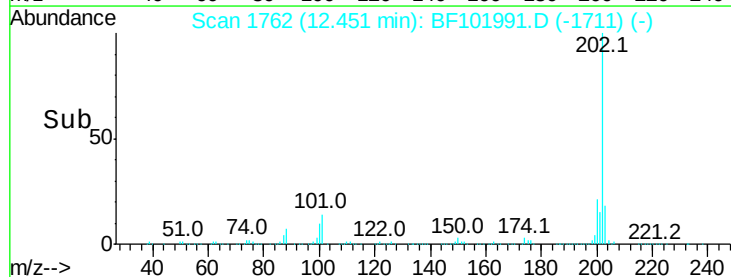
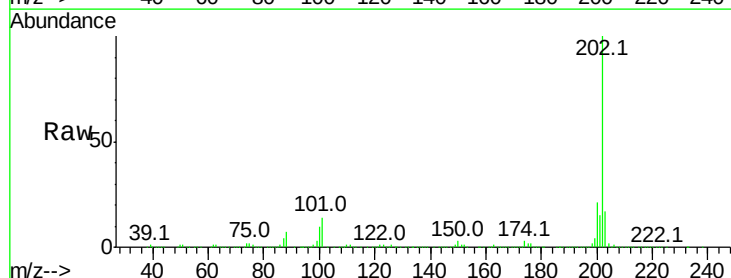
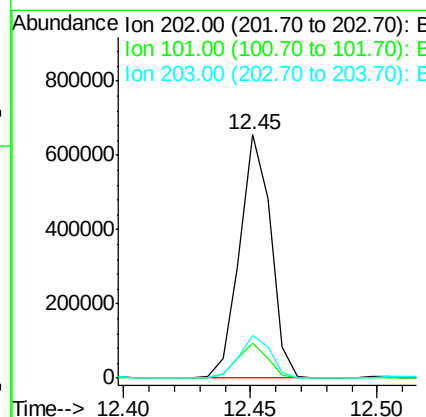
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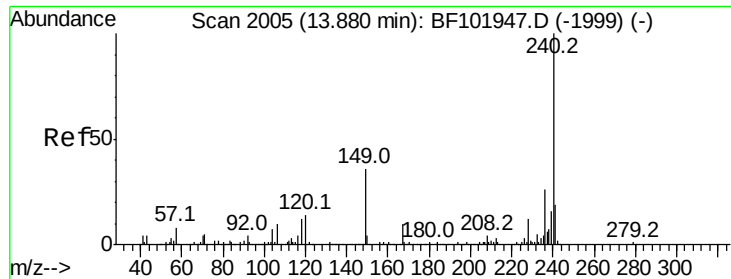
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#74
 Fluoranthene
 Concen: 16.139 ng
 RT: 12.45 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: BF101991.D
 Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	34.1
203	17.5	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: BF101991.D

Acq: 10 Jan 2018 20:50

Instrument :

BNA_F

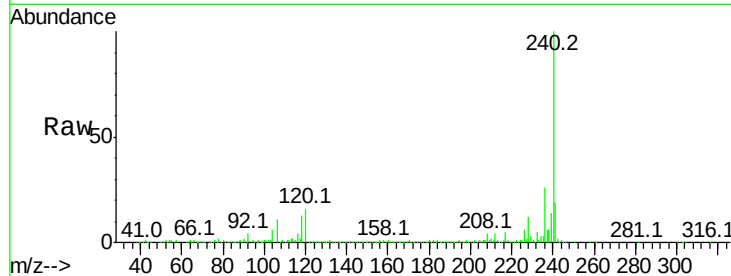
ClientSampleId :

WC-12R12-02

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.7	9.5	14.3
236	25.7	20.7	31.1

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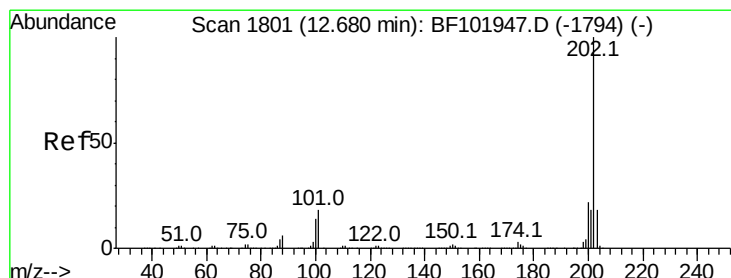
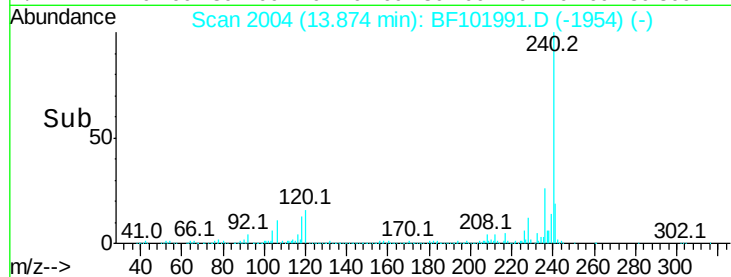
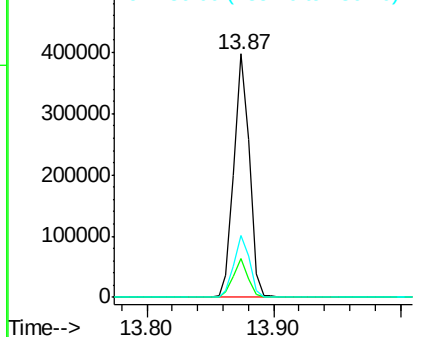
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 18.036 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.00 min

Lab File: BF101991.D

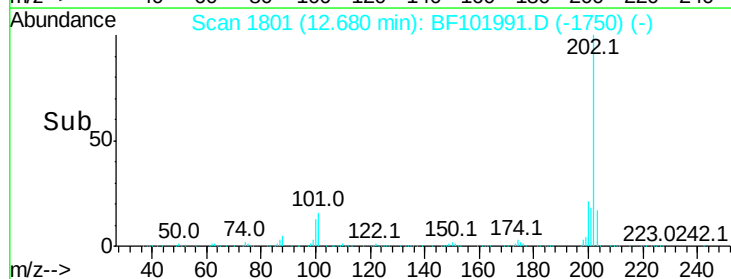
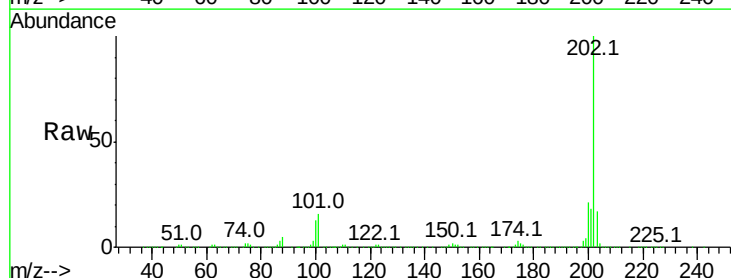
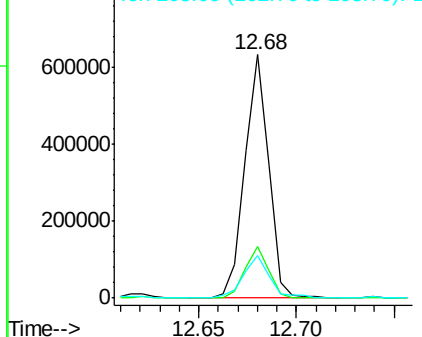
Acq: 10 Jan 2018 20:50

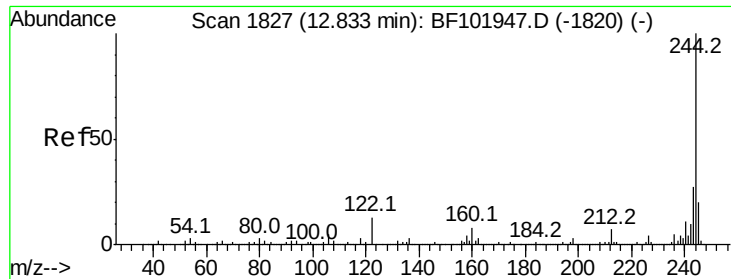
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.2
203	17.4	14.3	21.5

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





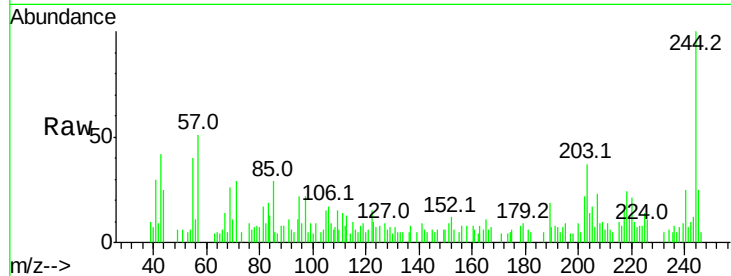
#78
 Terphenyl-d14
 Concen: 0.441 ng
 RT: 12.82 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: BF101991.D
 Acq: 10 Jan 2018 20:50

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-02

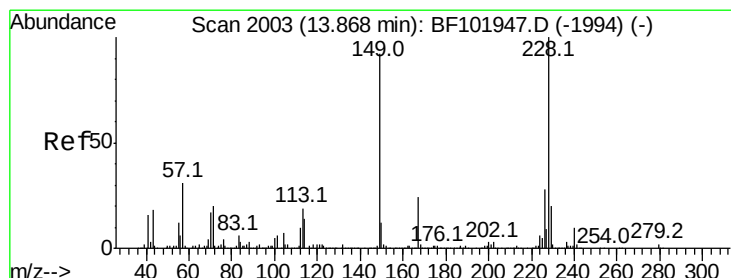
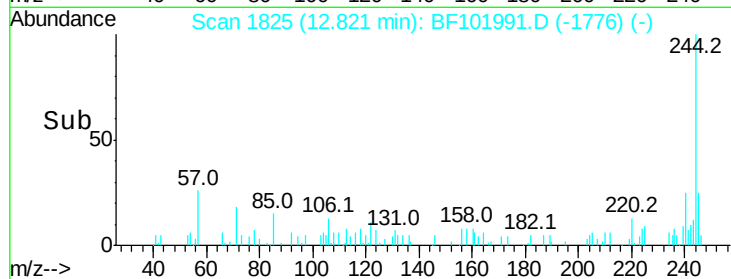
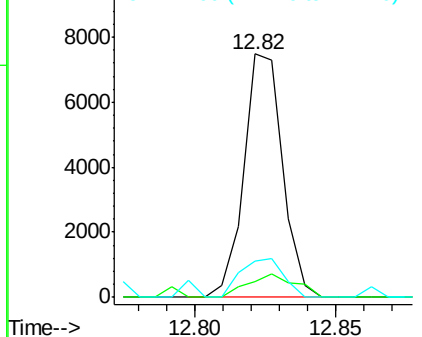
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	14.8	11.0	16.4

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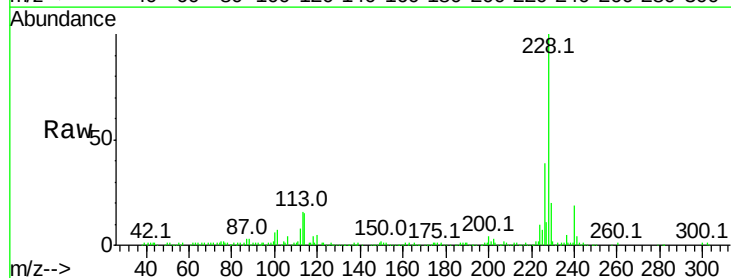


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

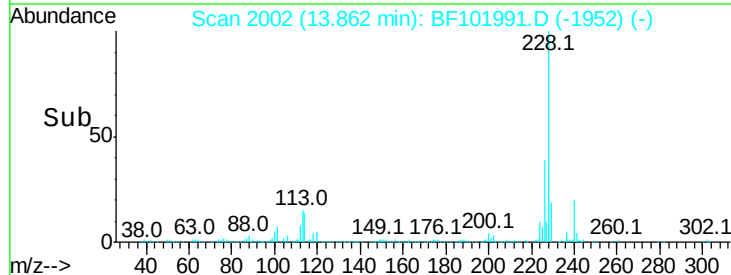
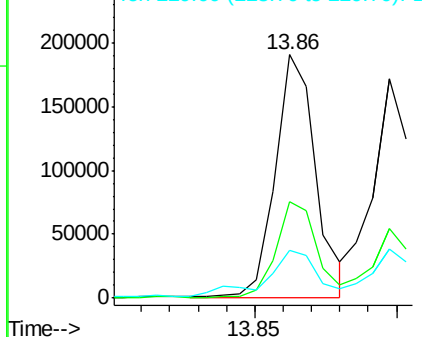


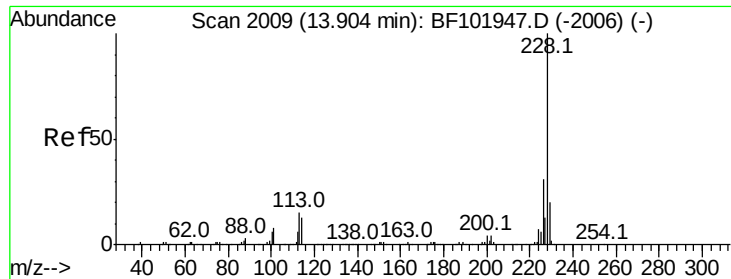
#80
 Benzo(a)anthracene
 Concen: 8.789 ng m
 RT: 13.86 min Scan# 2002
 Delta R.T. -0.01 min
 Lab File: BF101991.D
 Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.4	22.6	33.8#
229	19.8	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





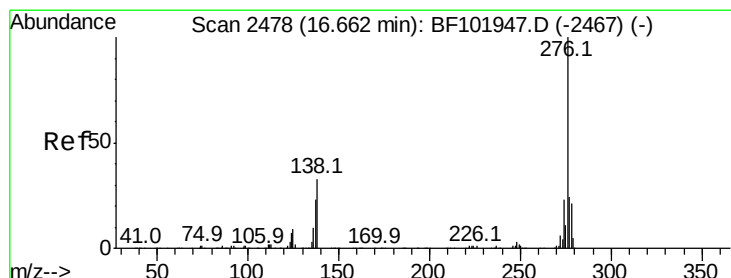
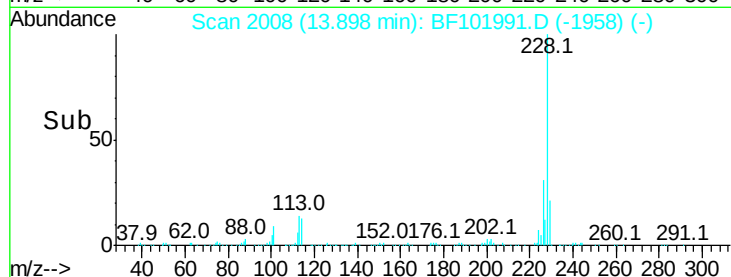
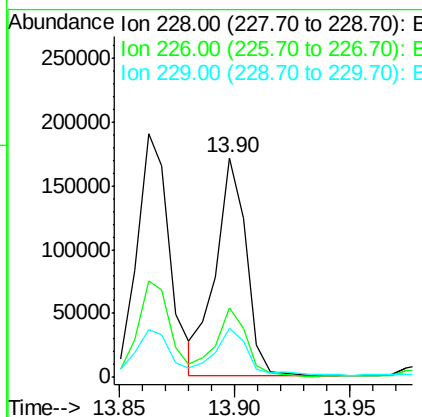
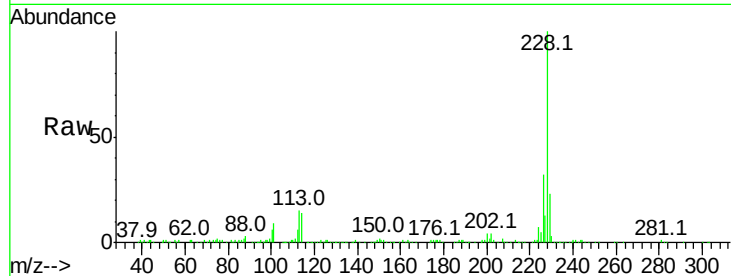
#82
Chrysene
Concen: 7.075 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Instrument :
BNA_F
ClientSampleId :
WC-12R12-02

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.0	37.6
229	22.6	16.2	24.4

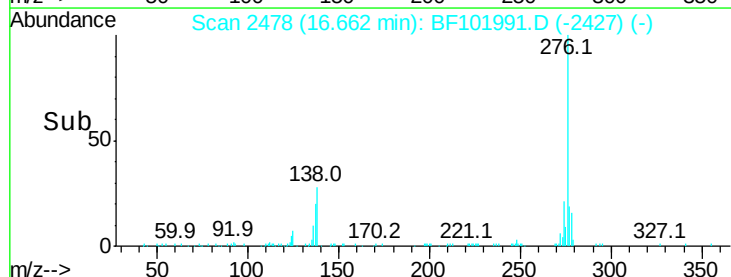
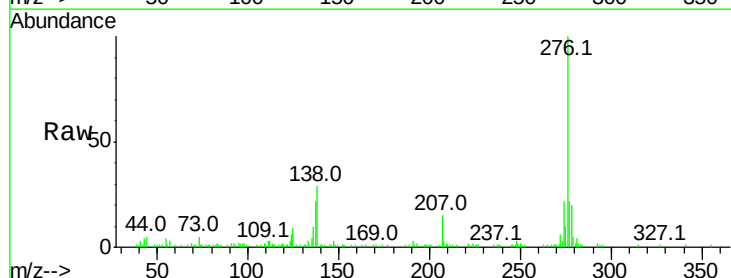
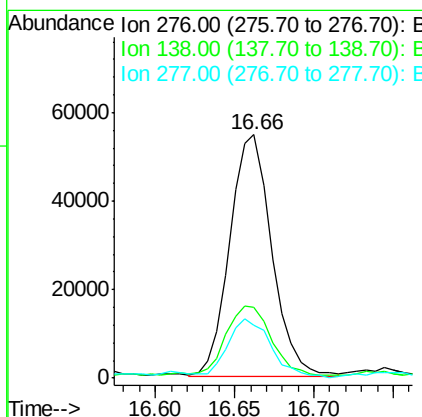
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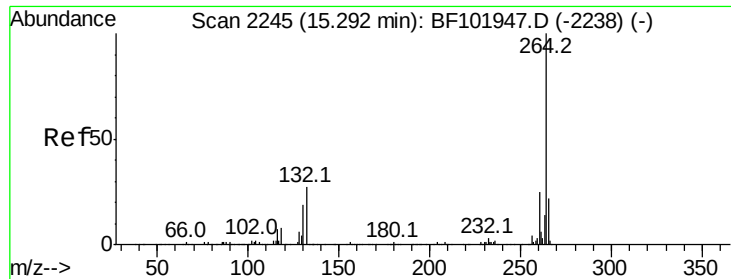
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#85
Indeno(1,2,3-cd)pyrene
Concen: 6.176 ng
RT: 16.66 min Scan# 2478
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.1	25.0	37.6
277	25.8	20.1	30.1





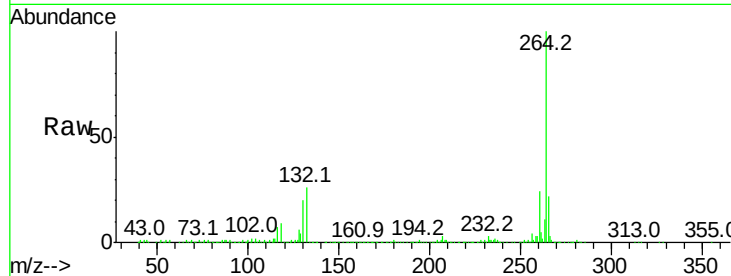
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Instrument :
BNA_F
ClientSampleId :
WC-12R12-02

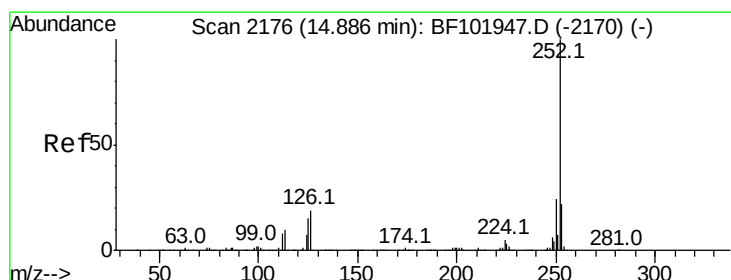
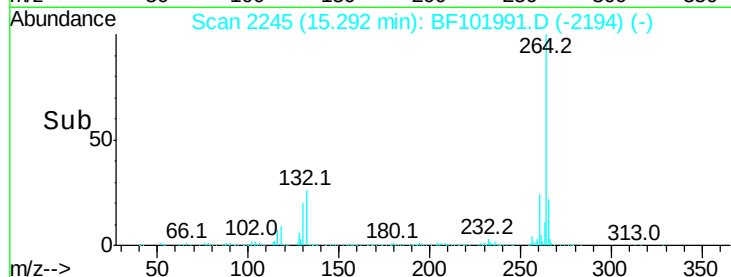
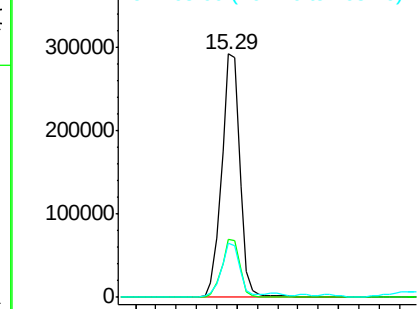
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	22.5	17.5	26.3

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1/11/2018 10:52:59 AM



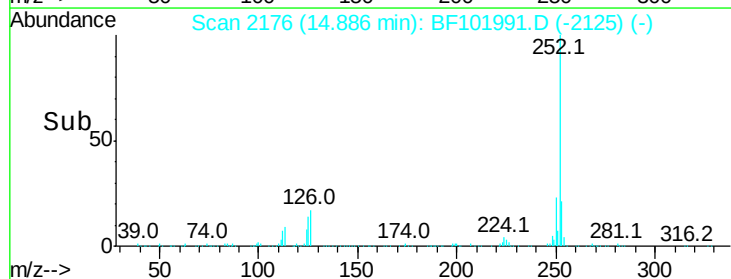
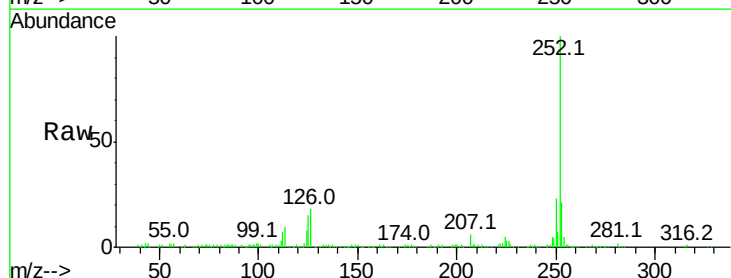
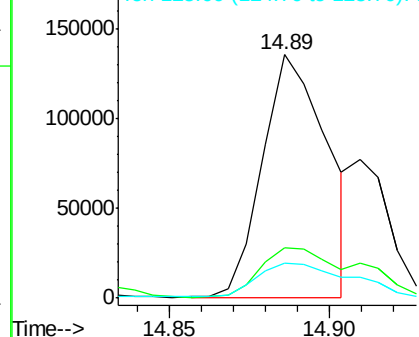
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

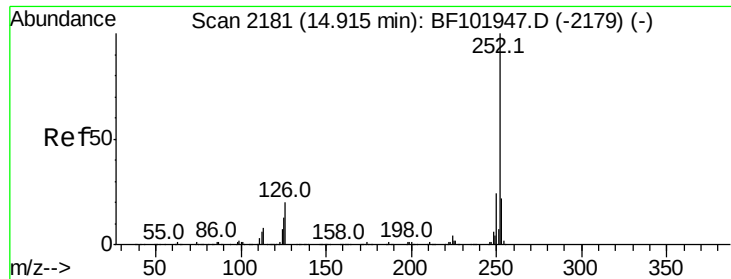


#87
Benzo(b)fluoranthene
Concen: 7.924 ng m
RT: 14.89 min Scan# 2176
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.0	25.6
125	14.6	9.0	13.6

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





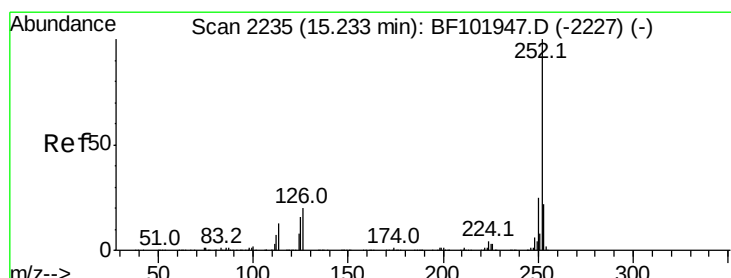
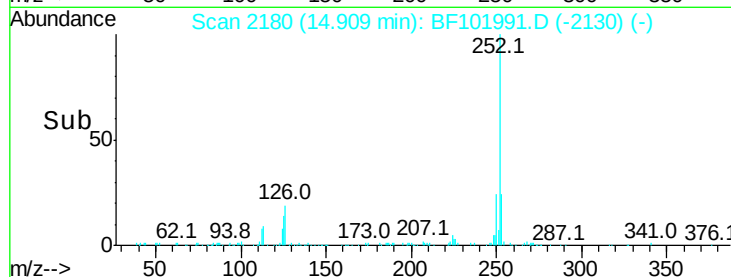
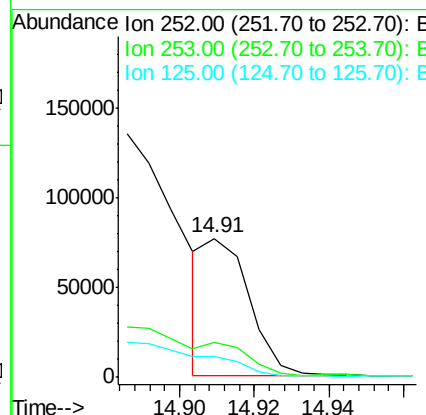
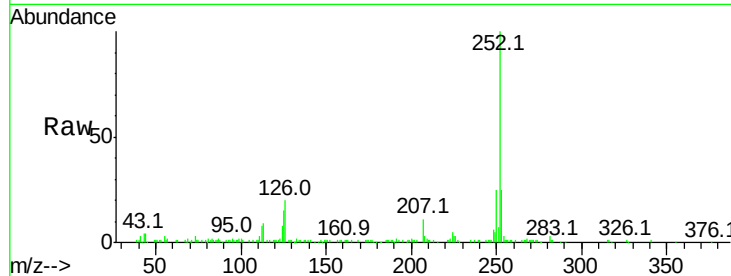
#88
Benzo(k)fluoranthene
Concen: 2.731 ng/mL
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Instrument :
BNA_F
ClientSampleId :
WC-12R12-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.9	26.9
125	14.8	10.2	15.2

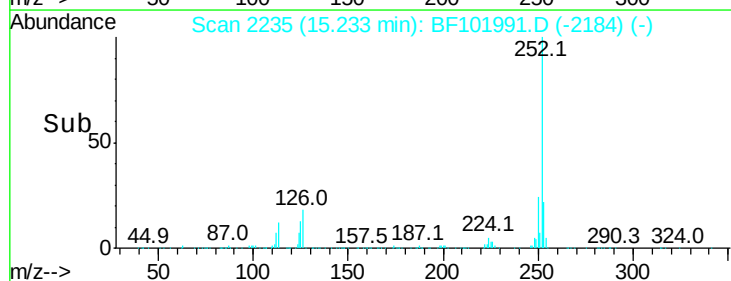
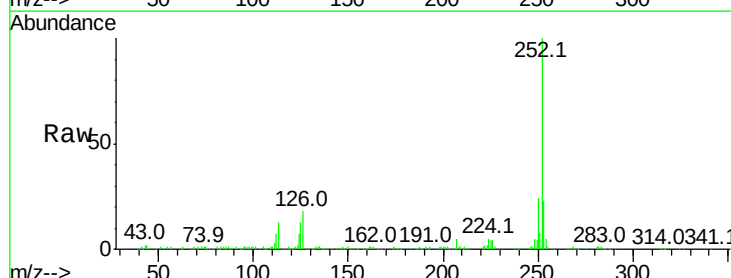
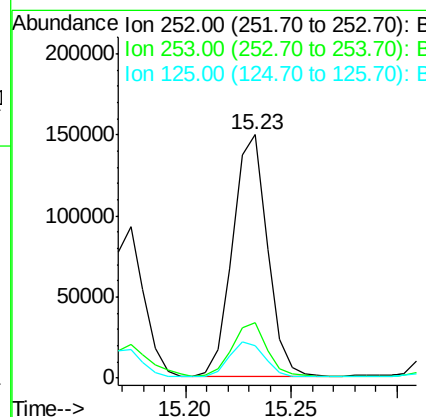
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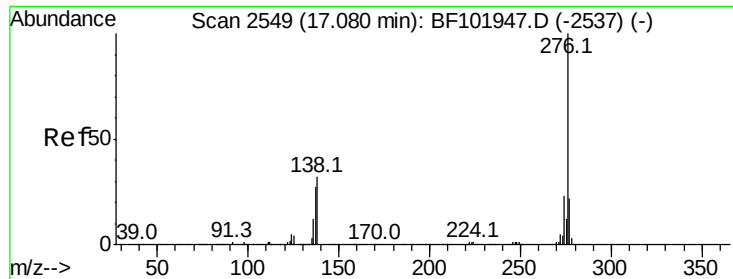
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#89
Benzo(a)pyrene
Concen: 7.929 ng/mL
RT: 15.23 min Scan# 2235
Delta R.T. -0.00 min
Lab File: BF101991.D
Acq: 10 Jan 2018 20:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	13.2	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 5.870 ng
 RT: 17.07 min Scan# 2548
 Delta R.T. -0.01 min
 Lab File: BF101991.D
 Acq: 10 Jan 2018 20:50

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-02

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	17.9	26.9
138	34.4	21.8	32.8

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