

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101996.D
 Acq On : 10 Jan 2018 23:03
 Operator : SJ/JU
 Sample : J1076-13 50X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 WC-50-01

Manual Integrations
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Sohil
 1/11/2018 10:53:10 AM

Quant Time: Jan 11 04:21:18 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	214739	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	867840	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	363394	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	557740	20.00	ng	0.00
75) Chrysene-d12	13.88	240	311452	20.00	ng	0.00
86) Perylene-d12	15.30	264	377804	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	6244	0.41	ng	0.00
7) Phenol-d6	6.35	99	8231	0.45	ng	0.00
23) Nitrobenzene-d5	7.28	82	4541	0.31	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	1068	0.34	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	10071	0.43	ng	-0.01
78) Terphenyl-d14	12.82	244	7706	0.51	ng	-0.01
Target Compounds						
10) Phenol	6.36	94	167138	8.151	ng	96
17) 2-Methylphenol	6.97	107	38988	2.834	ng	96
20) 3+4-Methylphenols	7.13	107	122560	7.419	ng	89
27) 2,4-Dimethylphenol	7.66	122	25572	2.061	ng	93
31) Naphthalene	8.04	128	4717710	108.792	ng	98
37) 2-Methylnaphthalene	8.72	142	959676	33.616	ng	100
45) 1,1'-Biphenyl	9.19	154	273938	8.529	ng	98
48) Acenaphthylene	9.62	152	1004127	25.403	ng	99
51) Acenaphthene	9.79	154	188665	7.864	ng	98
54) Dibenzofuran	9.97	168	821272	24.942	ng	98
57) Fluorene	10.31	166	973316	42.760	ng	98
70) Phenanthrene	11.28	178	2820950	86.587	ng	98
71) Anthracene	11.32	178	1053434	31.882	ng	99
72) Carbazole	11.47	167	356448	10.976	ng	99
74) Fluoranthene	12.46	202	1724938	53.814	ng	98
77) Pyrene	12.69	202	1428806	51.899	ng	99
80) Benzo(a)anthracene	13.87	228	627266m	31.566	ng	
82) Chrysene	13.90	228	539817	26.052	ng	97
85) Indeno(1,2,3-cd)pyrene	16.67	276	297020	19.695	ng	100
87) Benzo(b)fluoranthene	14.89	252	657985m	26.710	ng	
88) Benzo(k)fluoranthene	14.92	252	219995m	9.258	ng	
89) Benzo(a)pyrene	15.24	252	538761	24.304	ng	95
90) Dibenzo(a,h)anthracene	16.68	278	80352m	4.542	ng	
91) Benzo(g,h,i)perylene	17.09	276	269578	15.128	ng	95

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

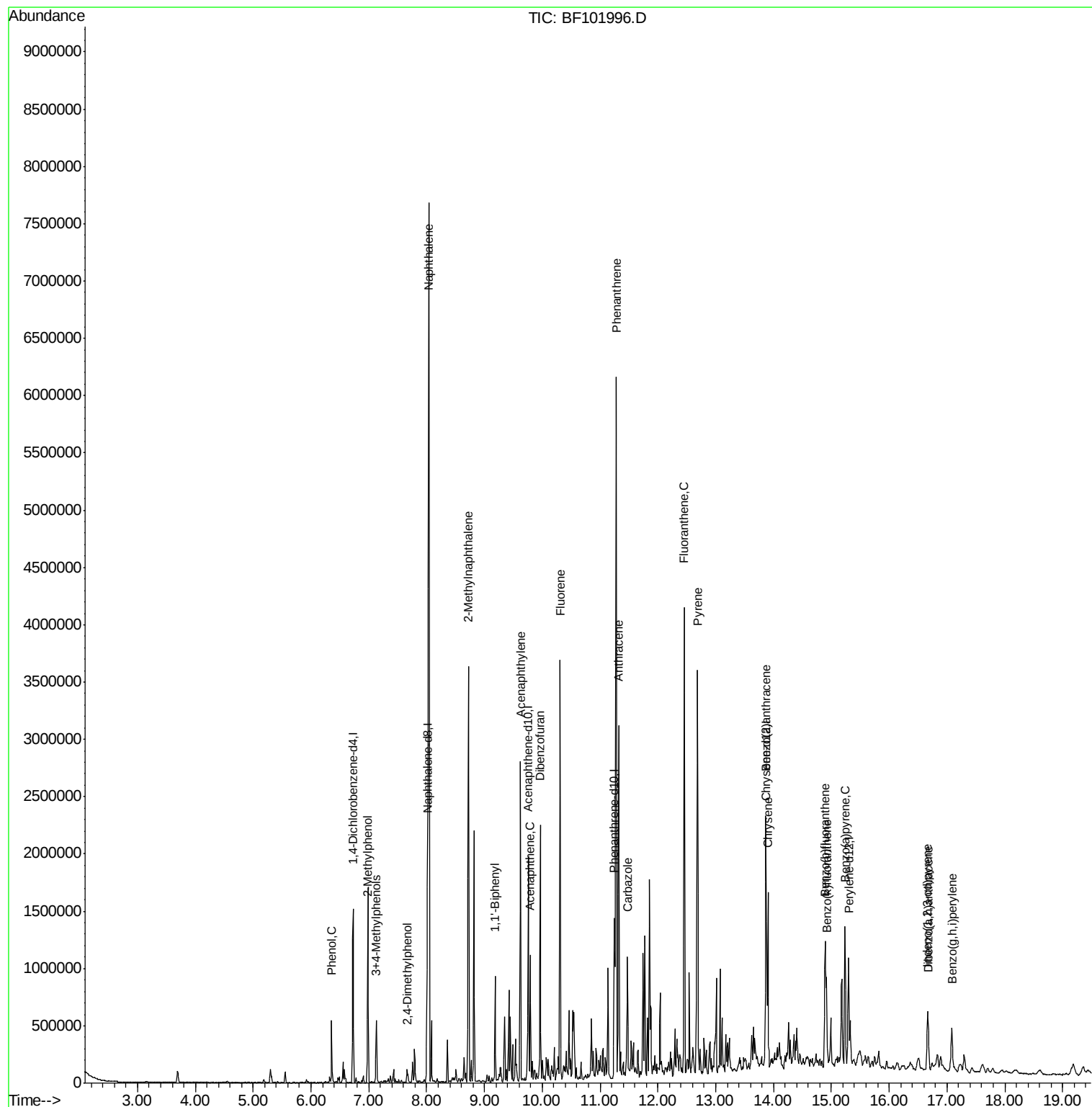
Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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Sample : J1076-13 50X
Misc :
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QLast Update : Tue Jan 09 15:20:36 2018
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.73 min Scan# 789

Delta R.T. 0.00 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Instrument :

BNA_F

ClientSampleId :

WC-50-01

Tot Ion:152 Resp: 214739

Ion Ratio Lower Upper

152 100

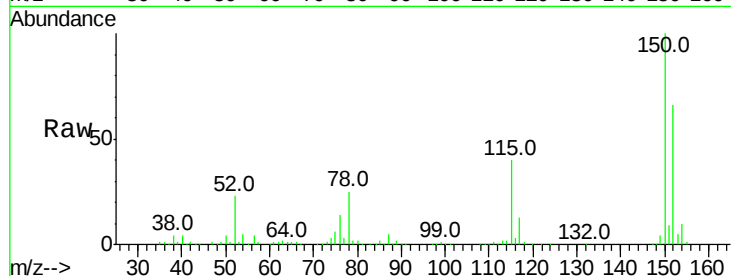
150 150.9 124.6 186.8

115 60.3 50.1 75.1

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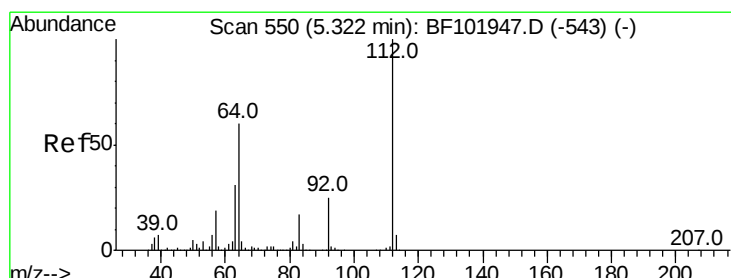
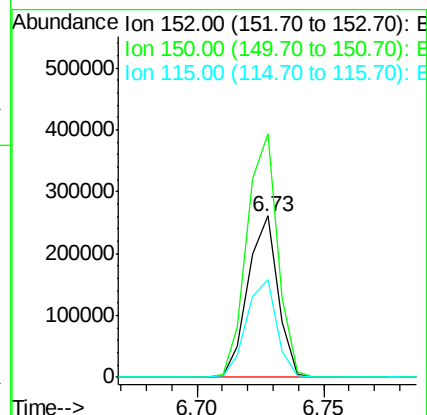
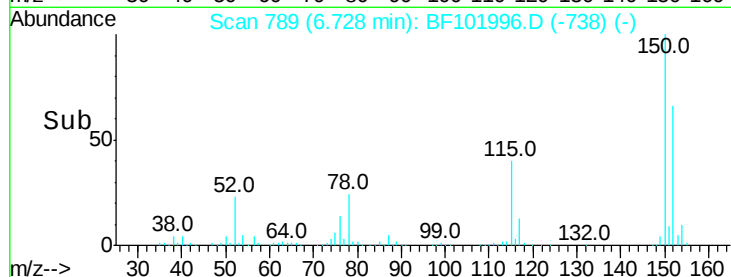
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 0.411 ng

RT: 5.32 min Scan# 550

Delta R.T. 0.00 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

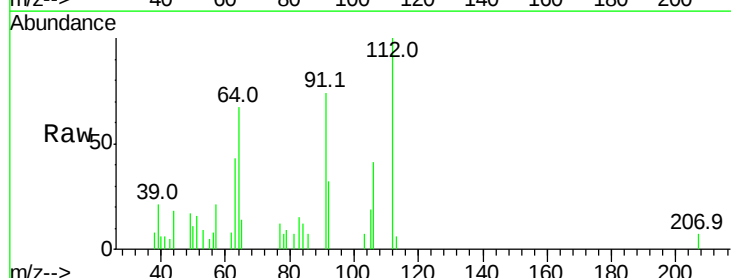
Tgt Ion:112 Resp: 6244

Ion Ratio Lower Upper

112 100

64 67.4 47.9 71.9

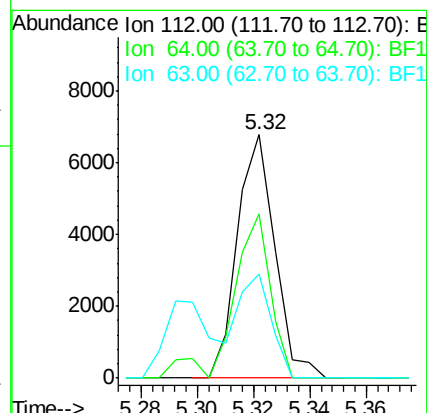
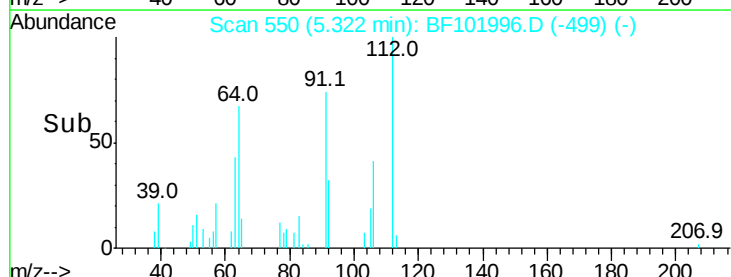
63 42.6 23.7 35.5#

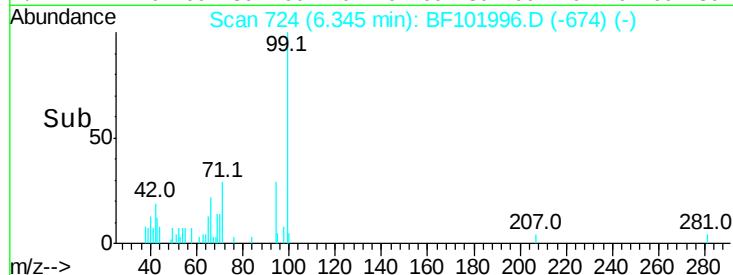
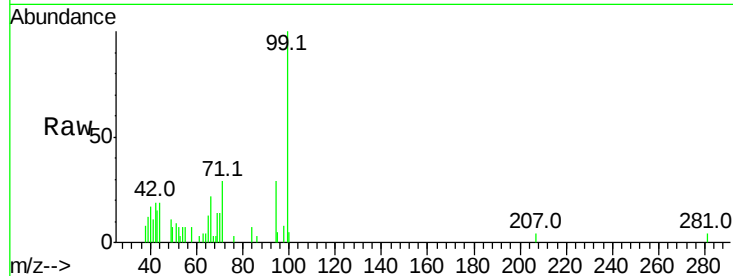


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 0.454 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Tot Ion:	99	Resp:	8231
Ion Ratio	Lower	Upper	
99	100		
42	18.9	14.5	21.7
71	29.5	25.4	38.0

Instrument :

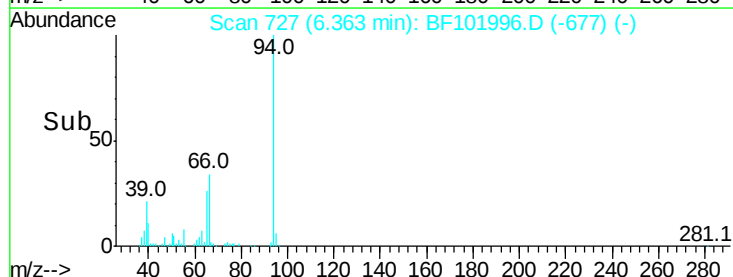
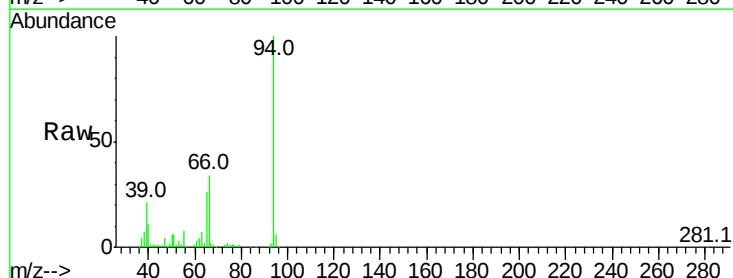
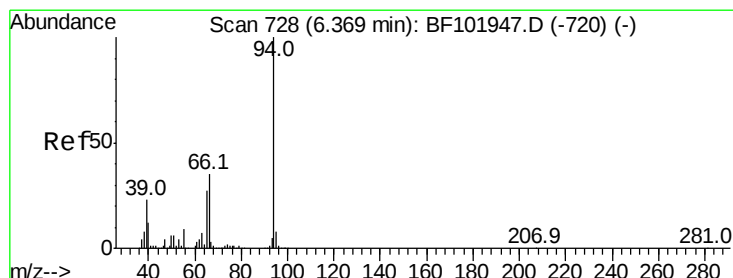
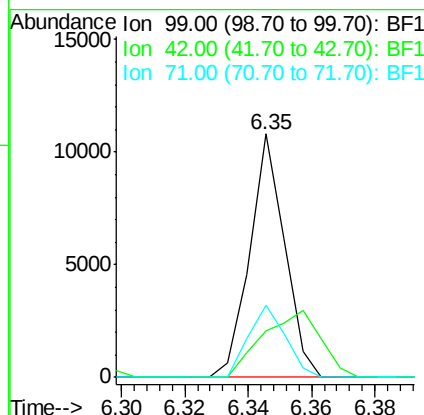
BNA_F

ClientSampled :

WC-50-01

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#10

Phenol

Concen: 8.151 ng

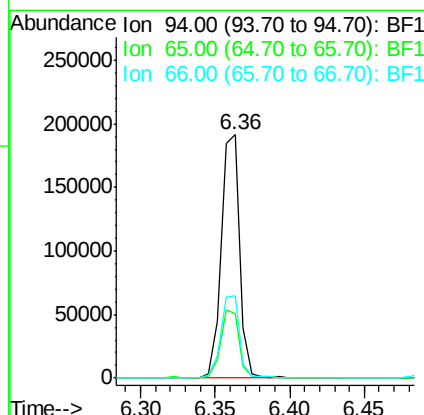
RT: 6.36 min Scan# 727

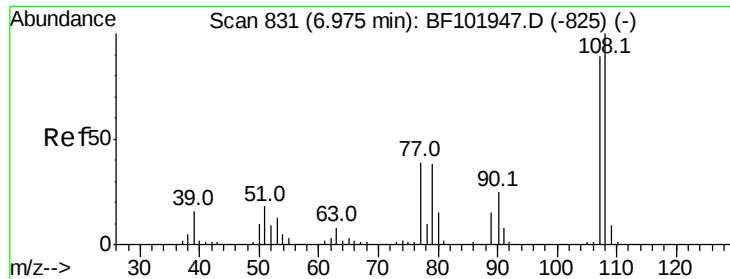
Delta R.T. -0.01 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Tgt Ion:	94	Resp:	167138
Ion Ratio	Lower	Upper	
94	100		
65	26.2	7.9	47.9
66	33.6	16.2	56.2





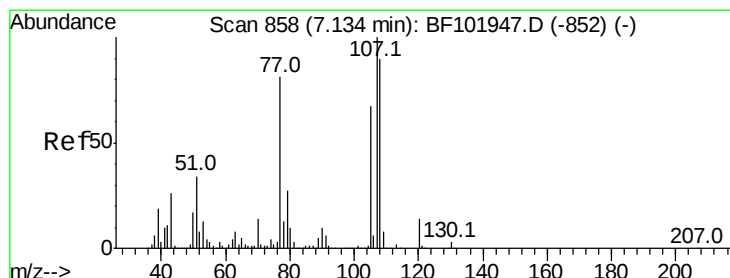
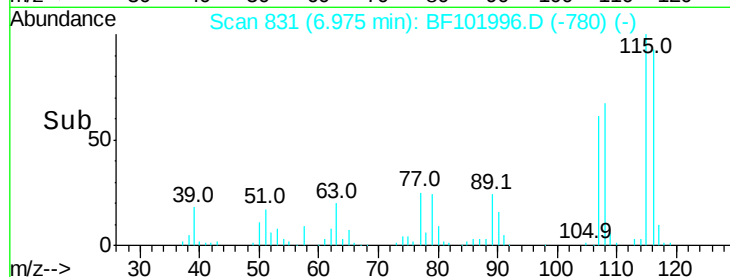
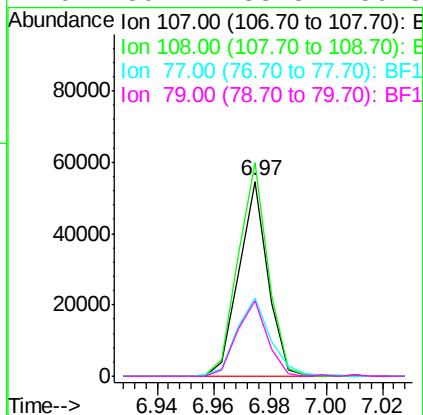
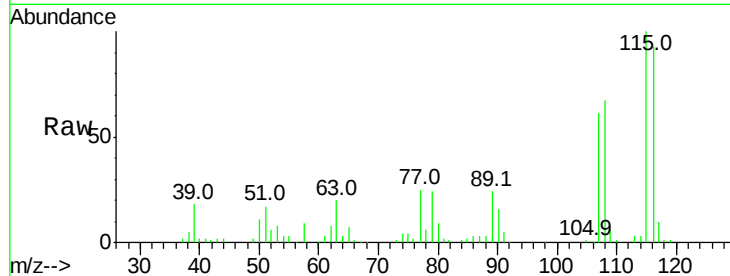
#17
2-Methylphenol
Concen: 2.834 ng
RT: 6.97 min Scan# 831
Delta R.T. 0.00 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Instrument :
BNA_F
ClientSampleId :
WC-50-01

Tot Ion	107	Resp	38988
Ion	Ratio	Lower	Upper
107	100		
108	109.8	91.7	137.5
77	40.2	33.8	50.8
79	39.1	33.8	50.8

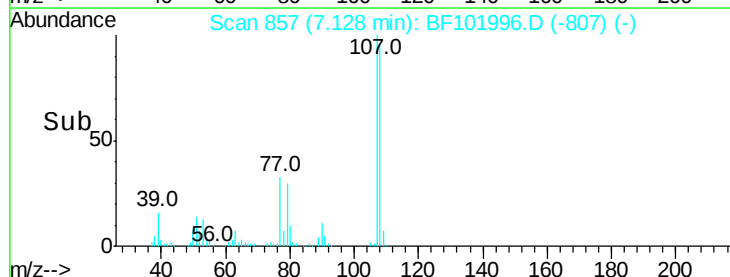
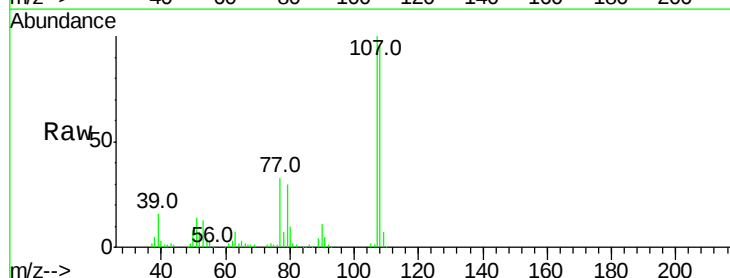
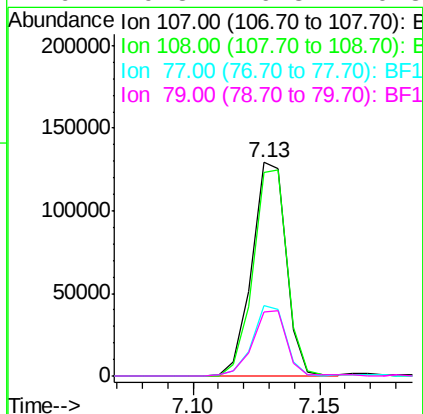
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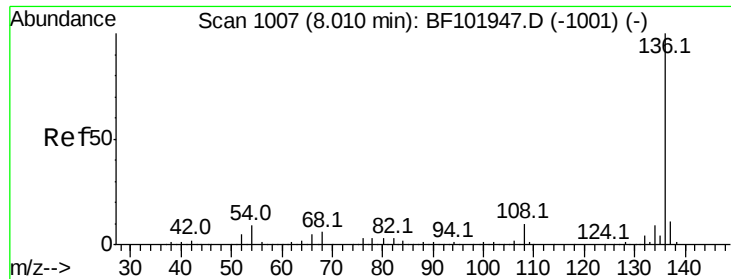
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#20
3+4-Methylphenols
Concen: 7.419 ng
RT: 7.13 min Scan# 857
Delta R.T. -0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Tgt Ion	107	Resp	122560
Ion	Ratio	Lower	Upper
107	100		
108	95.4	68.2	108.2
77	32.8	26.7	66.7
79	29.8	6.3	46.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. 0.00 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Instrument :

BNA_F

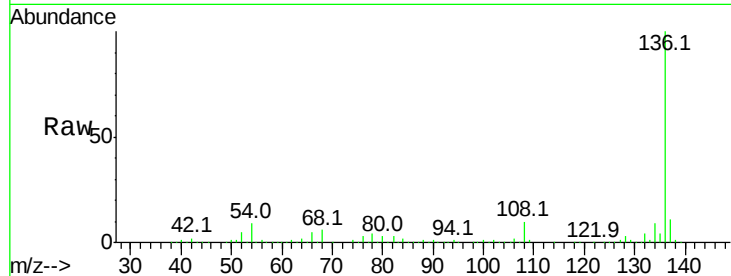
ClientSampleId :

WC-50-01

Tot Ion	136	Resp	867840
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.6	6.6	9.8
68	6.2	5.0	7.4

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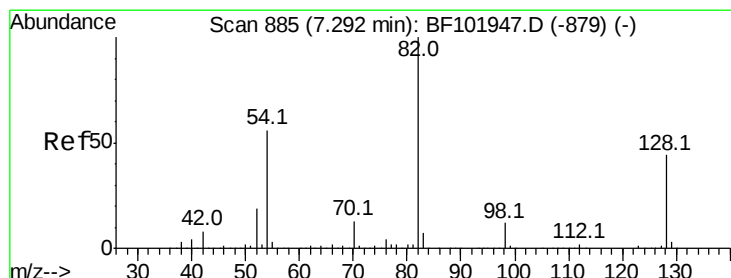
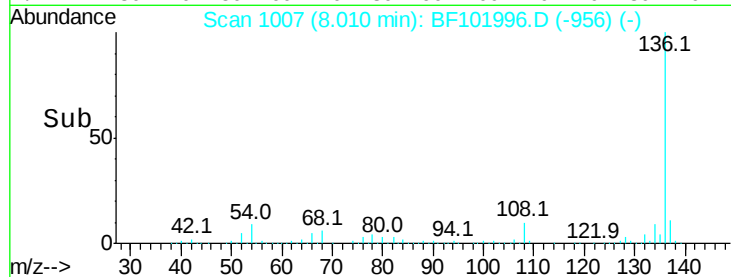
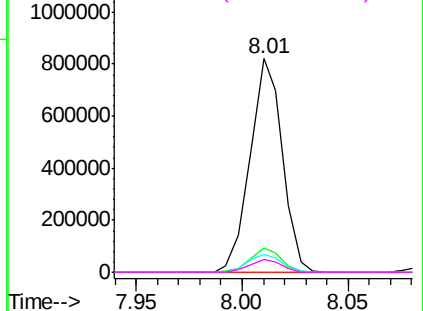


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 0.307 ng

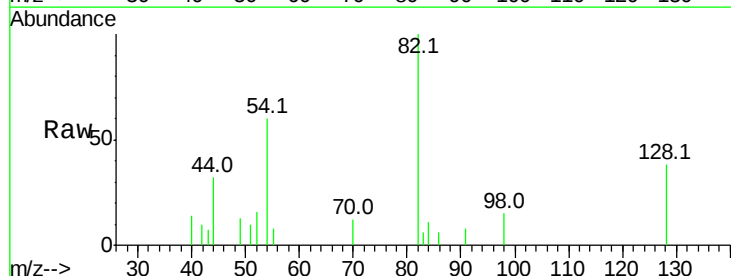
RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

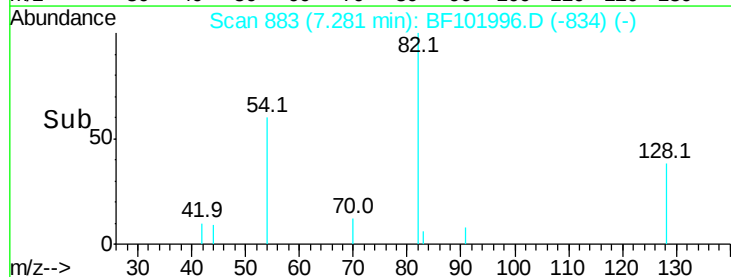
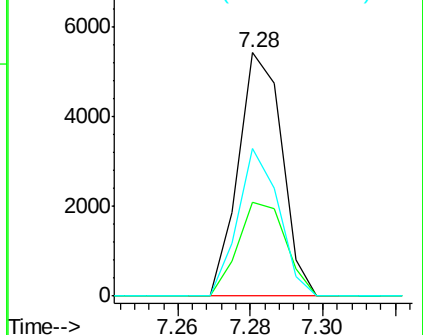
Tgt Ion	82	Resp	4541
Ion Ratio	Lower	Upper	
82	100		
128	38.4	36.1	54.1
54	60.4	41.4	62.2

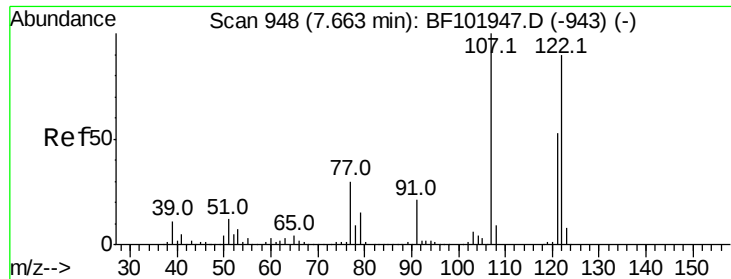


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





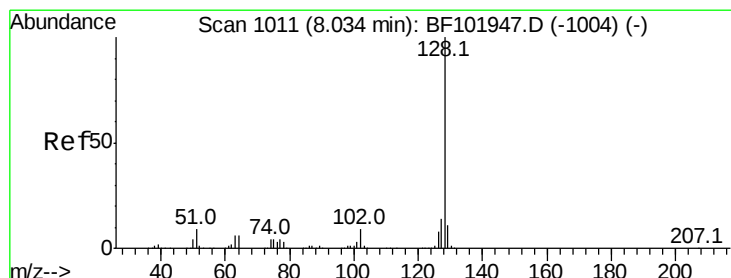
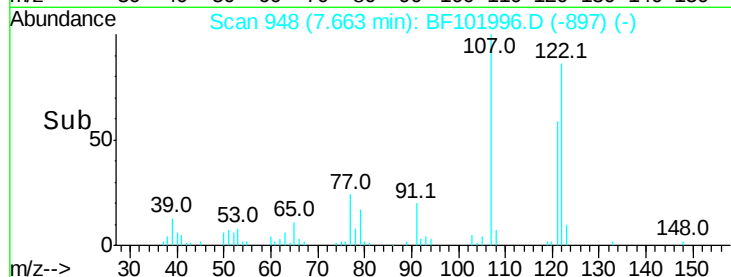
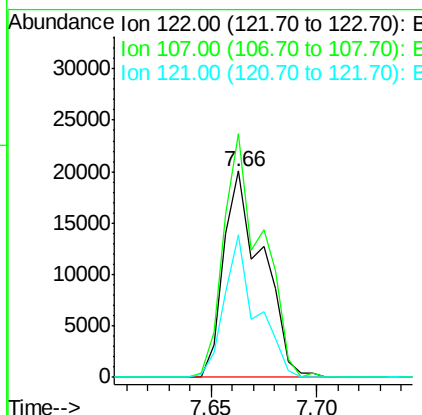
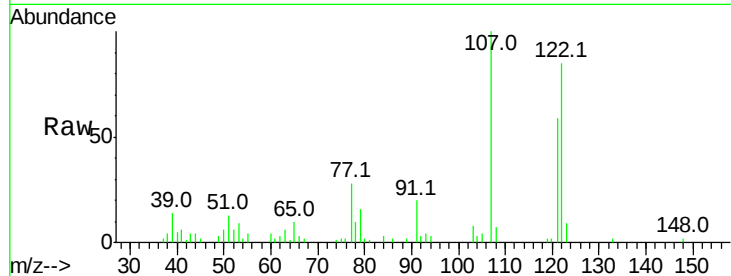
#27
2,4-Dimethylphenol
Concen: 2.061 ng
RT: 7.66 min Scan# 948
Delta R.T. 0.00 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Instrument :
BNA_F
ClientSampleId :
WC-50-01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
122	100		25572		
107	117.9	91.2		136.8	
121	69.1	47.2		70.8	

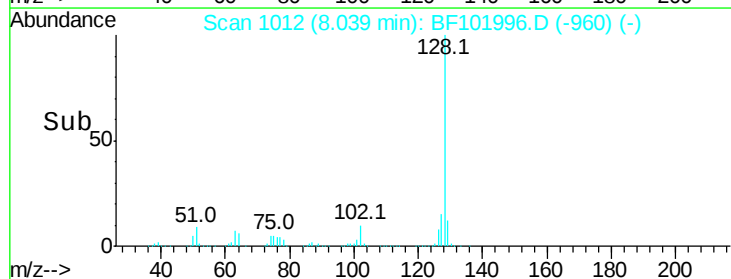
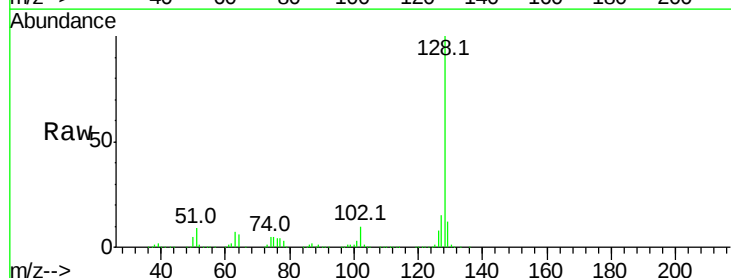
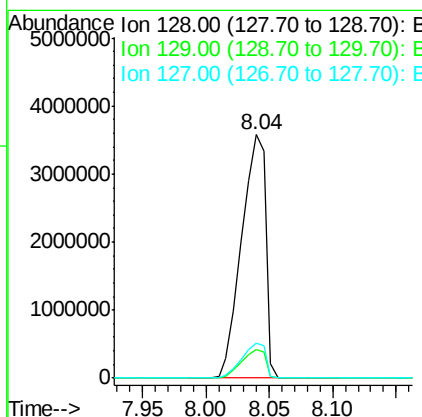
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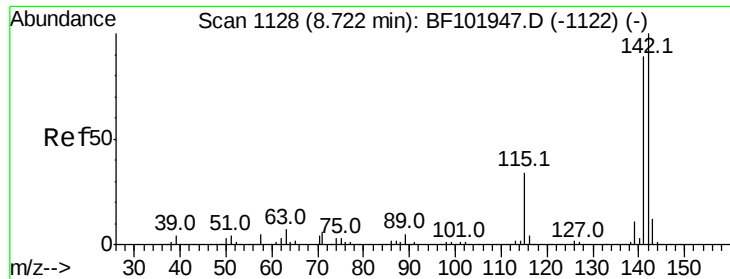
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#31
Naphthalene
Concen: 108.792 ng
RT: 8.04 min Scan# 1012
Delta R.T. 0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
128	100		4717710		
129	11.8	8.8		13.2	
127	14.5	10.9		16.3	





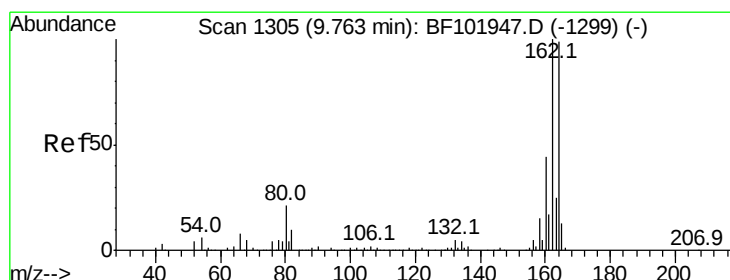
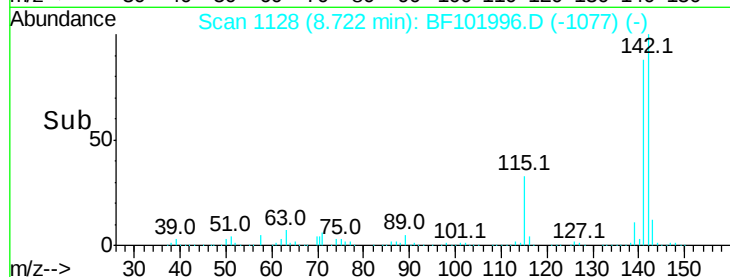
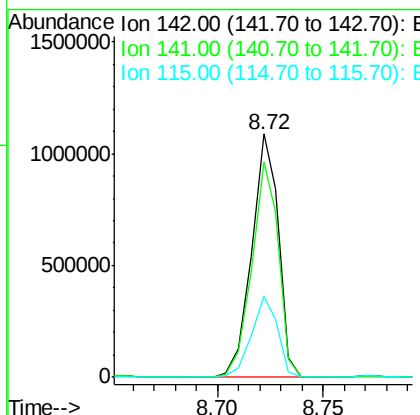
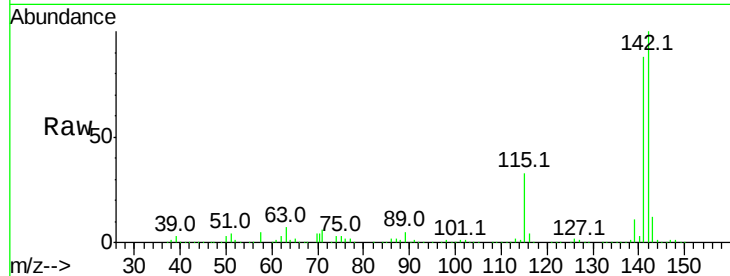
#37
2-Methylnaphthalene
Concen: 33.616 ng
RT: 8.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Instrument :
BNA_F
ClientSampled :
WC-50-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.8	106.2
115	33.3	26.1	39.1

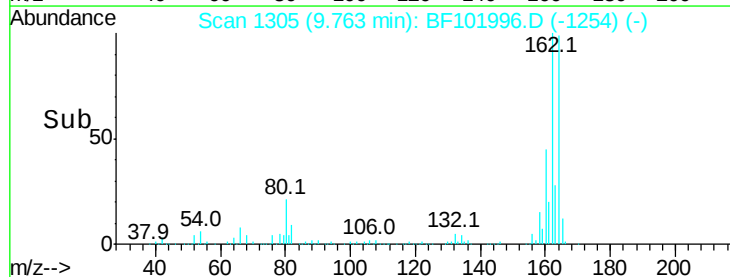
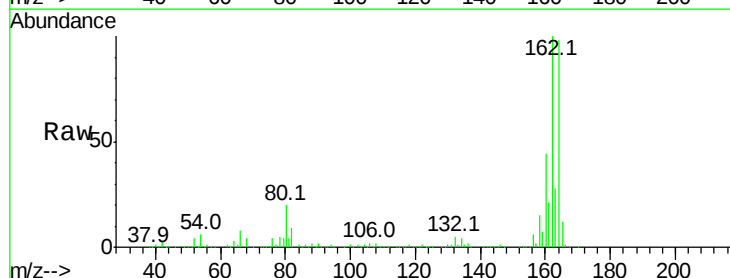
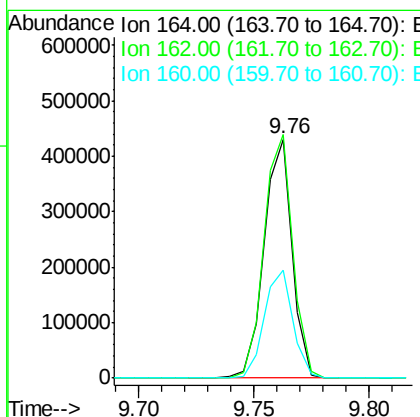
Manual Integrations
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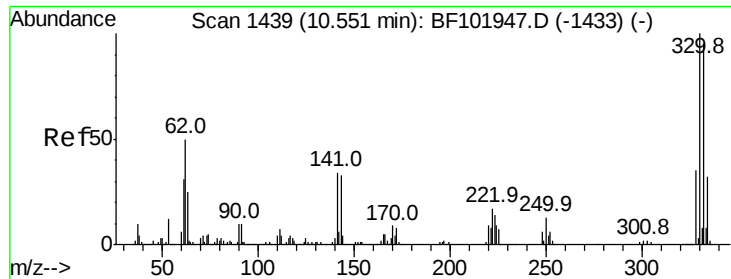
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.1	86.1	129.1
160	45.4	38.3	57.5





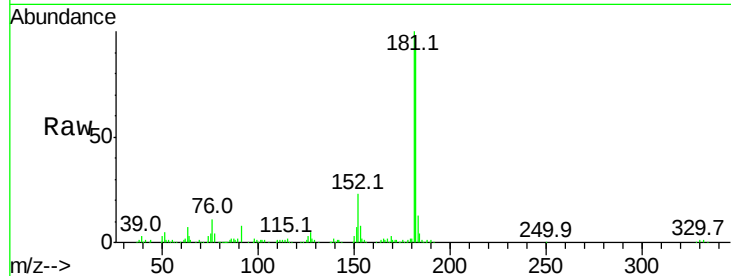
#41
 2,4,6-Tribromophenol
 Concen: 0.337 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF101996.D
 Acq: 10 Jan 2018 23:03

Instrument :
 BNA_F
 ClientSampled :
 WC-50-01

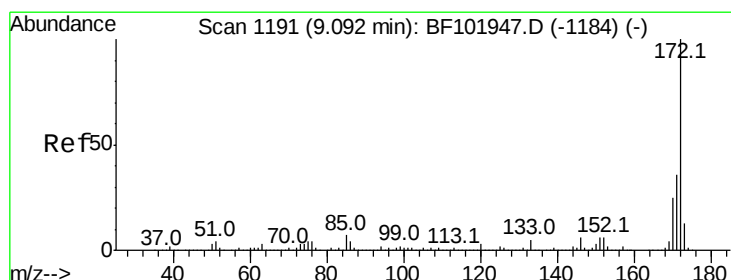
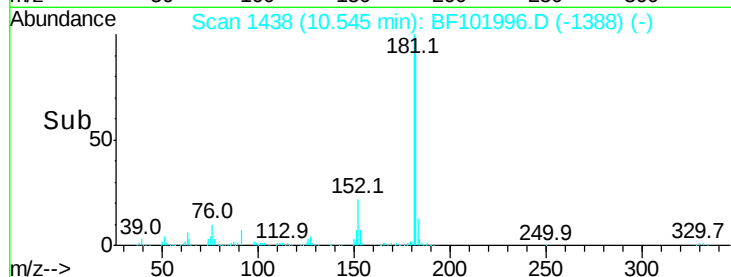
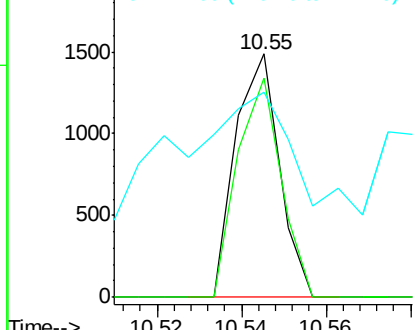
Tot Ion	Ratio	Lower	Upper
330	100		
332	90.1	77.0	115.6
141	149.0	29.9	44.9#

Manual Integrations
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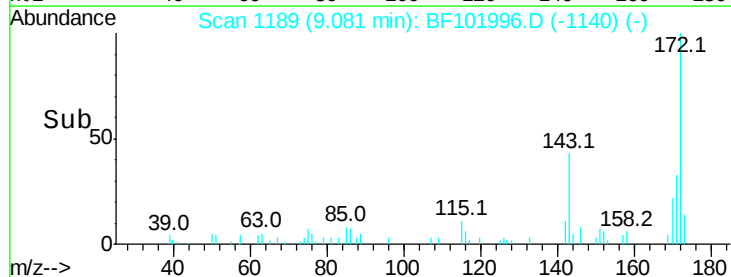
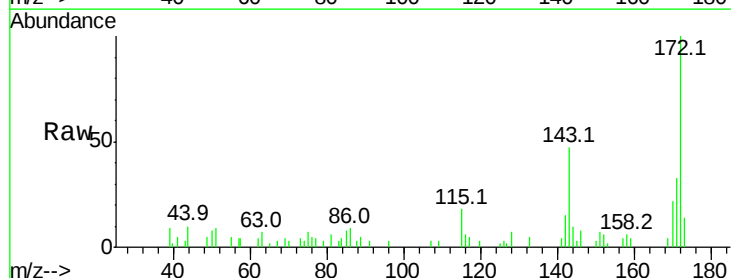
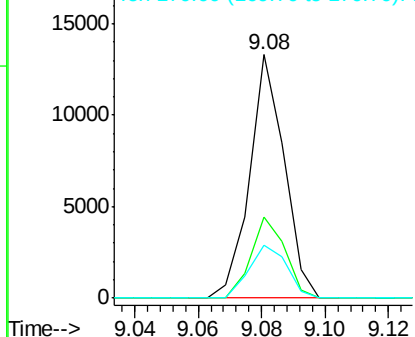
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

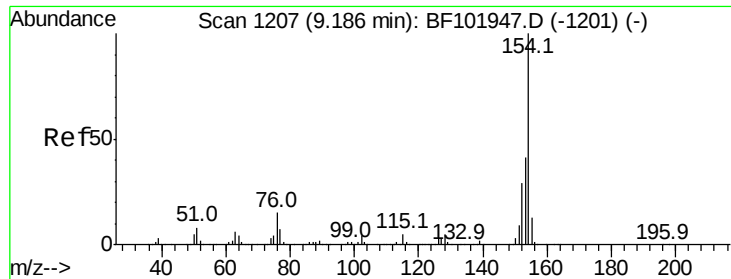


#44
 2-Fluorobiphenyl
 Concen: 0.433 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF101996.D
 Acq: 10 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.2	29.7	44.5
170	22.0	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: 8.529 ng

RT: 9.19 min Scan# 1207

Delta R.T. 0.00 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Instrument :

BNA_F

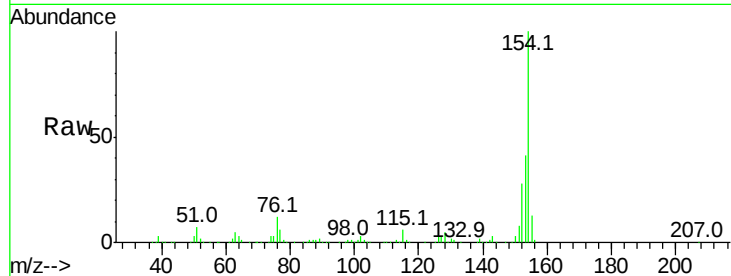
ClientSampleId :

WC-50-01

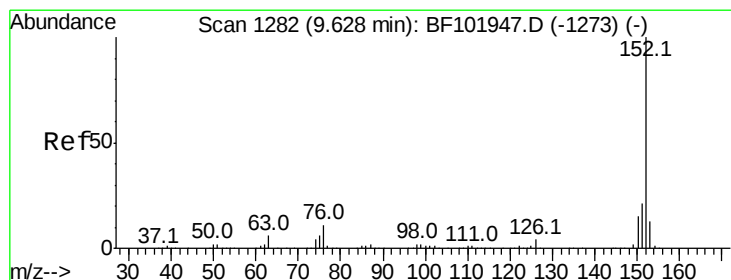
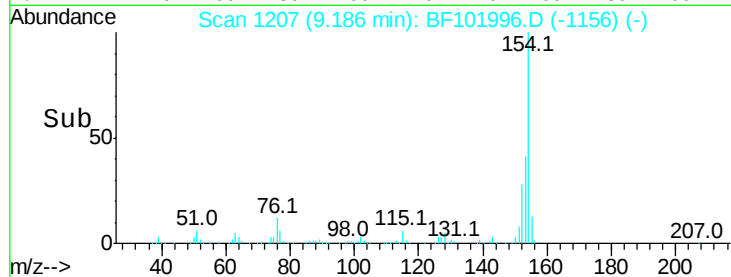
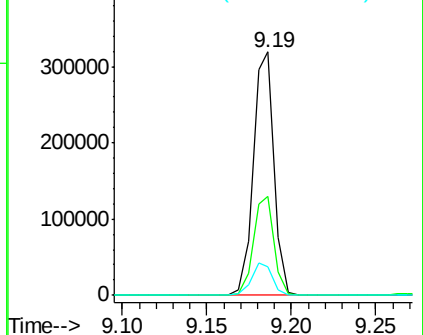
Tot Ion:	154	Resp:	273938
Ion Ratio	Lower	Upper	
154	100		
153	40.5	21.3	61.3
76	12.0	0.0	34.0

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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: 25.403 ng

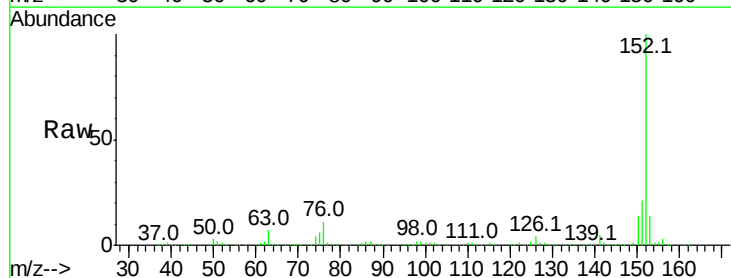
RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

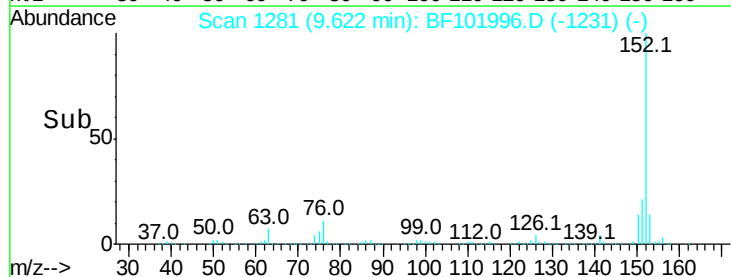
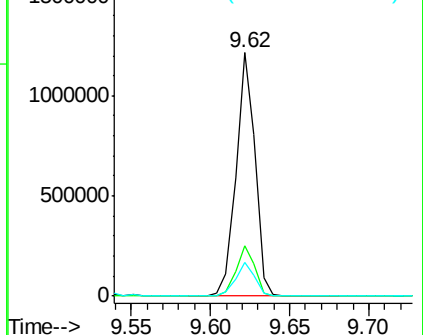
Lab File: BF101996.D

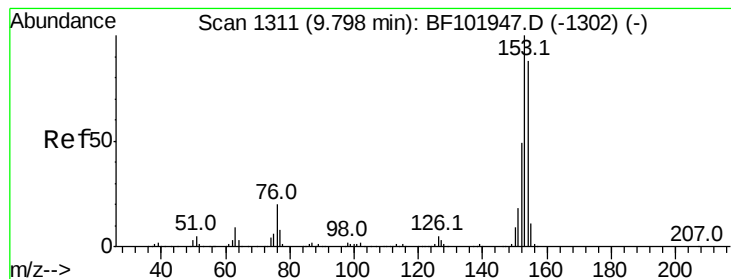
Acq: 10 Jan 2018 23:03

Tgt Ion:	152	Resp:	1004127
Ion Ratio	Lower	Upper	
152	100		
151	20.8	16.3	24.5
153	13.7	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





#51

Acenaphthene

Concen: 7.864 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Instrument :

BNA_F

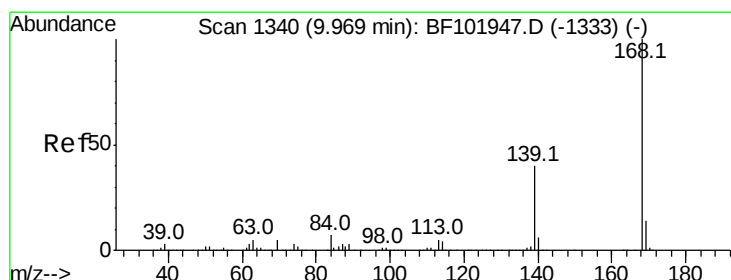
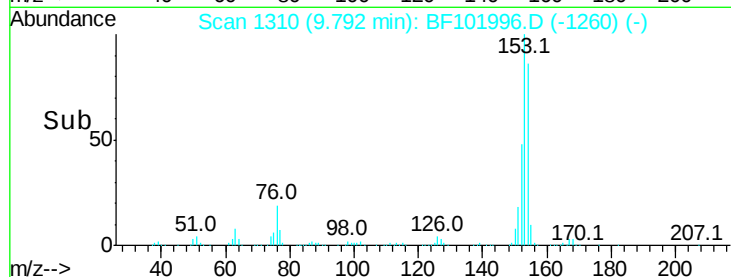
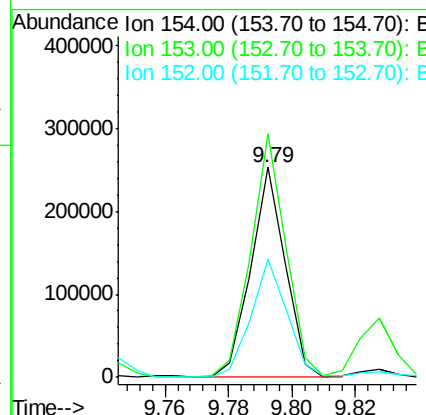
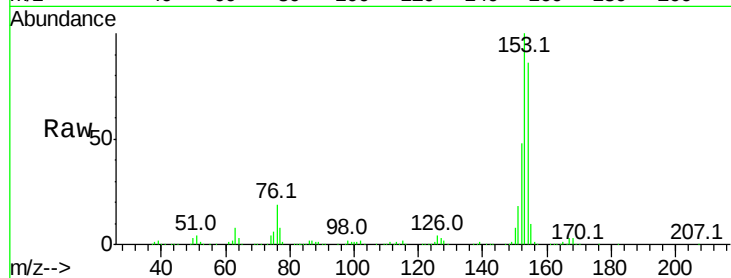
ClientSampleId :

WC-50-01

Tot Ion:	154	Resp:	188665
Ion Ratio	Lower	Upper	
154	100		
153	115.8	91.2	136.8
152	56.0	43.8	65.8

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#54

Dibenzofuran

Concen: 24.942 ng

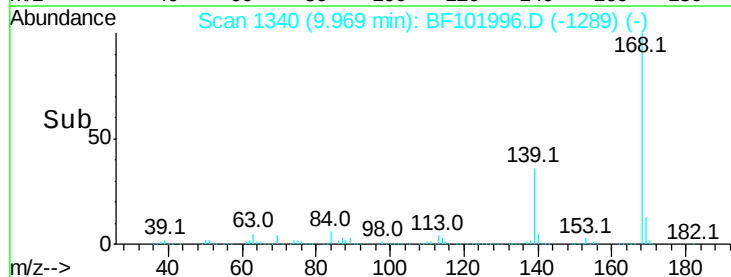
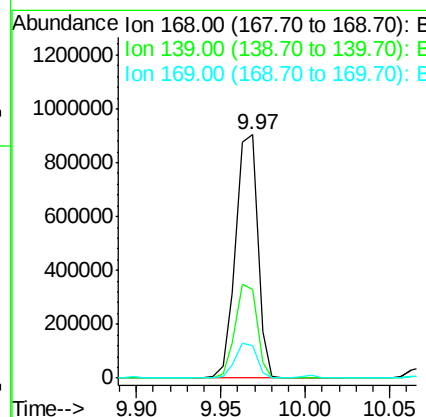
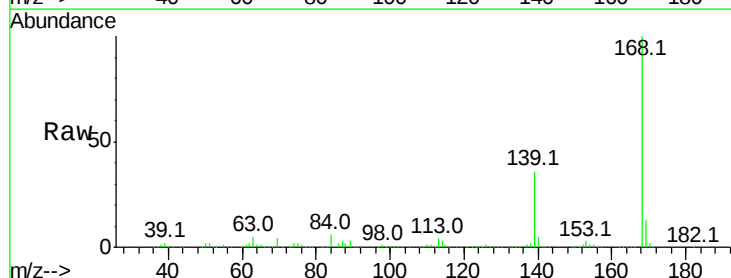
RT: 9.97 min Scan# 1340

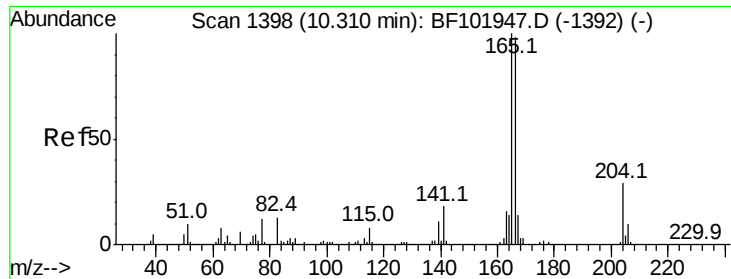
Delta R.T. 0.00 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Tgt Ion:	168	Resp:	821272
Ion Ratio	Lower	Upper	
168	100		
139	36.5	30.1	45.1
169	13.2	10.9	16.3





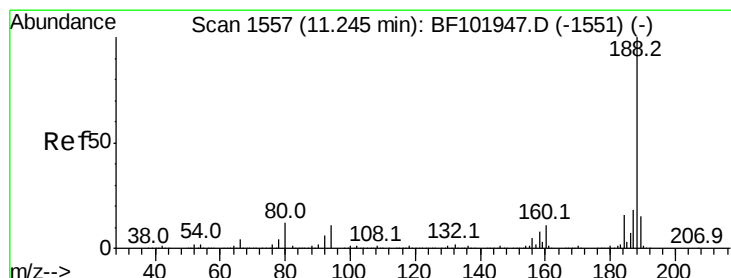
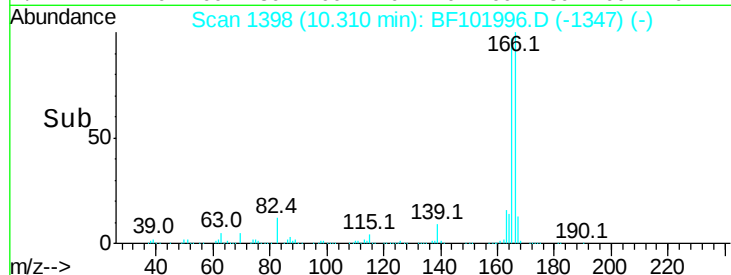
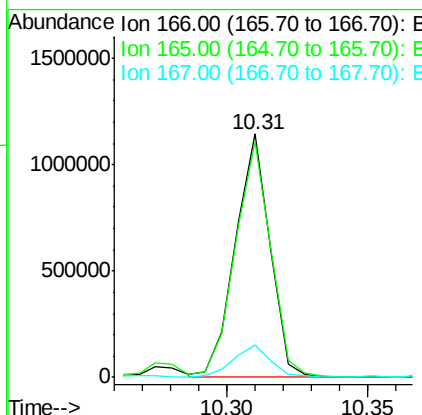
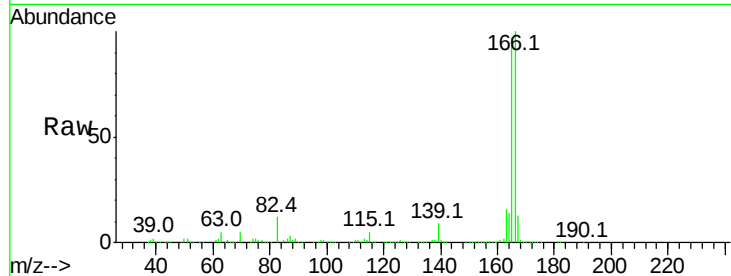
#57
Fluorene
 Concen: 42.760 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. 0.00 min
 Lab File: BF101996.D
 Acq: 10 Jan 2018 23:03

Instrument :
 BNA_F
 ClientSampleId :
 WC-50-01

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	97.1	79.8	119.8	
167	13.1	10.6	16.0	

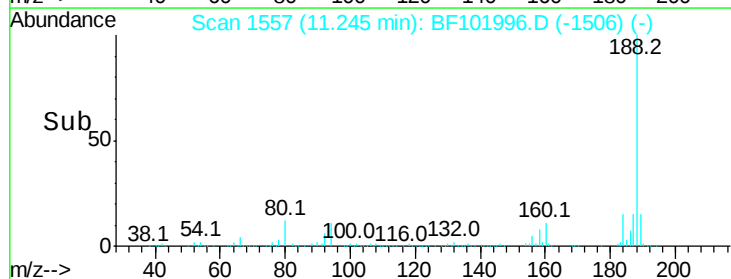
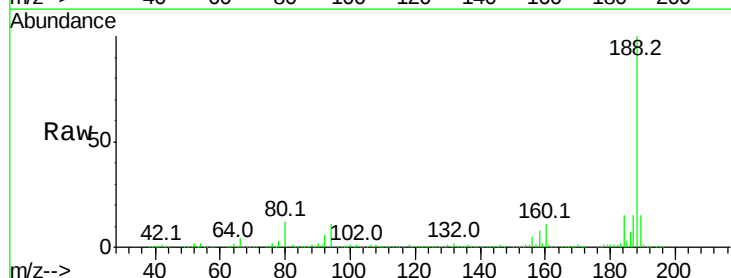
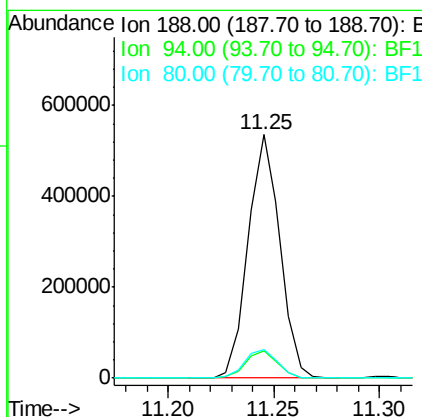
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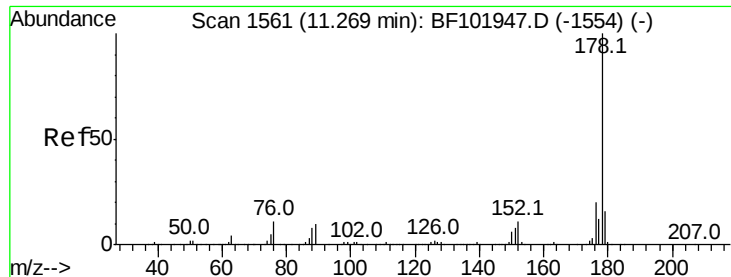
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF101996.D
 Acq: 10 Jan 2018 23:03

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.4	8.5	12.7	
80	11.8	9.2	13.8	





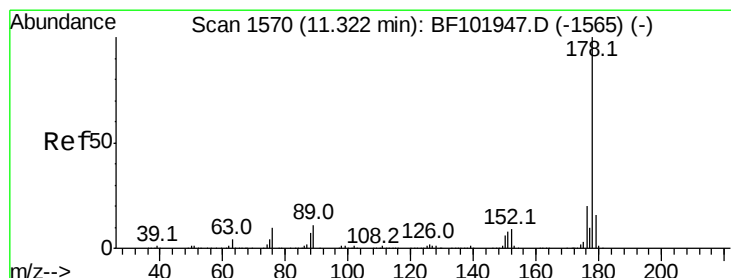
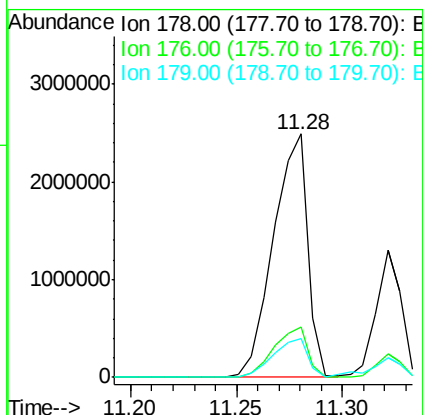
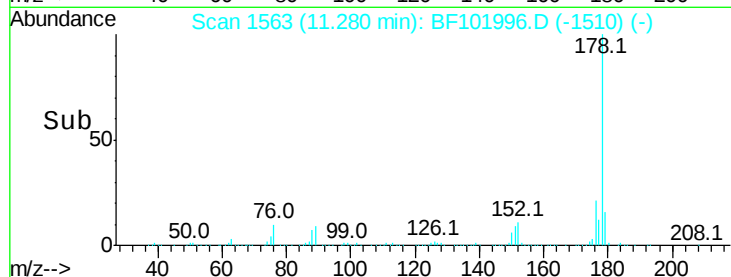
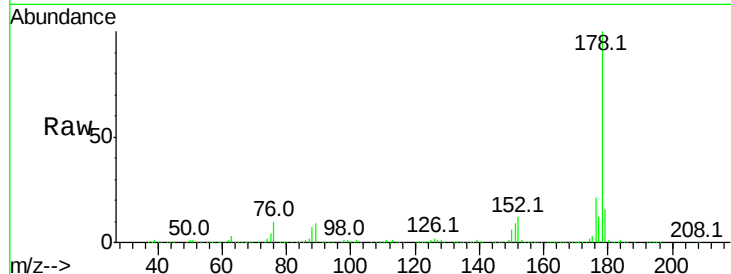
#70
Phenanthrene
Concen: 86.587 ng
RT: 11.28 min Scan# 1563
Delta R.T. 0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Instrument :
BNA_F
ClientSampleId :
WC-50-01

Tot Ion:178 Resp: 2820950
Ion Ratio Lower Upper
178 100
176 20.6 15.8 23.8
179 15.7 13.0 19.6

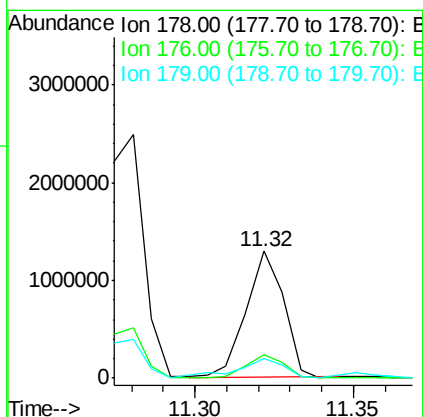
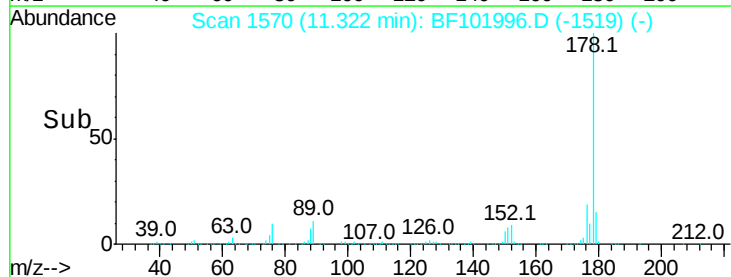
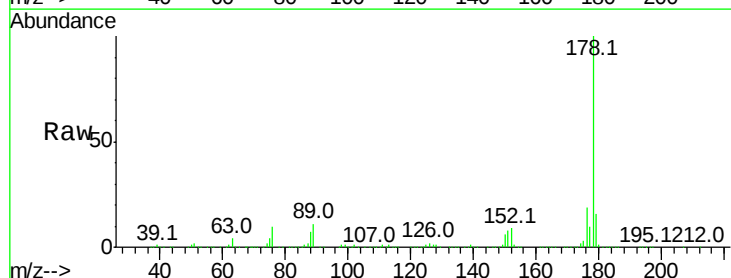
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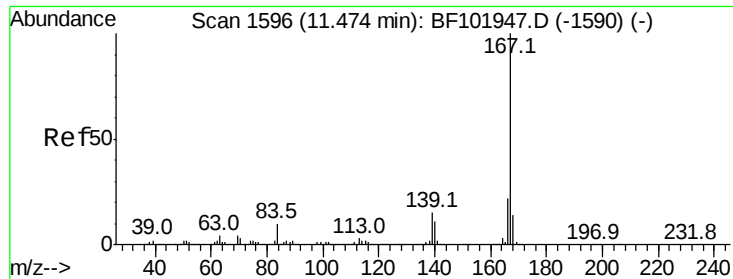
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#71
Anthracene
Concen: 31.882 ng
RT: 11.32 min Scan# 1570
Delta R.T. 0.00 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Tgt Ion:178 Resp: 1053434
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.7 12.6 19.0





#72

Carbazole

Concen: 10.976 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Instrument :

BNA_F

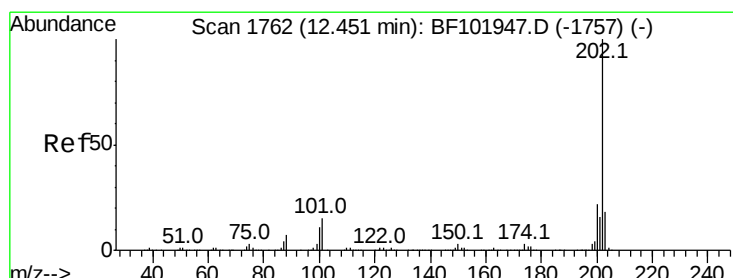
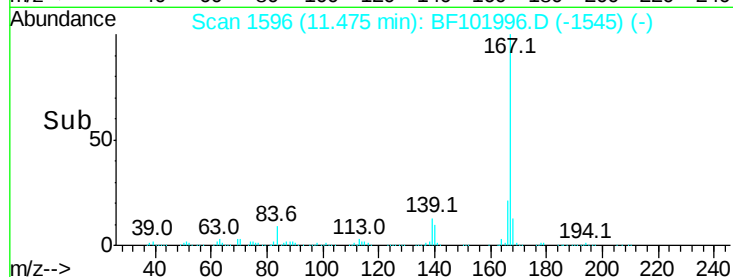
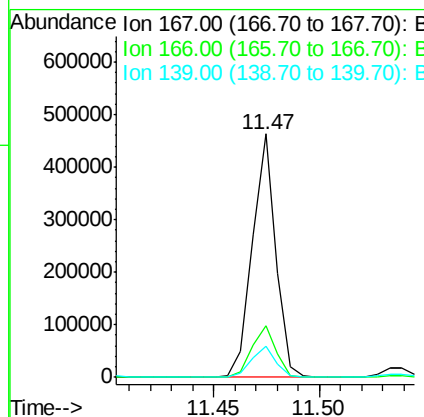
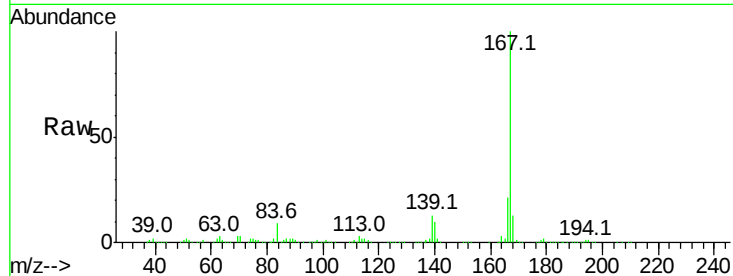
ClientSampleId :

WC-50-01

Tot Ion:	167	Resp:	356448
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.6	26.4
139	12.9	10.9	16.3

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#74

Fluoranthene

Concen: 53.814 ng

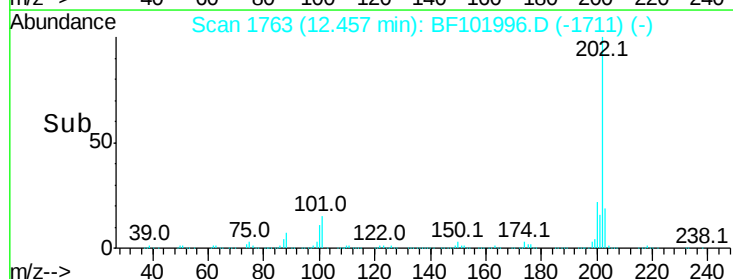
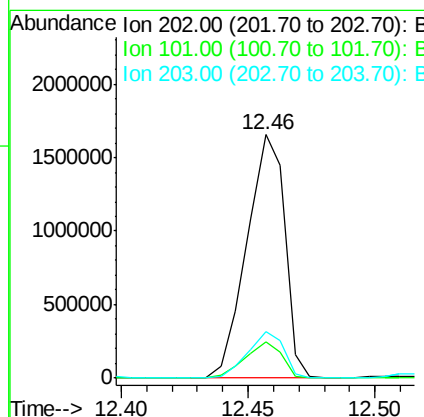
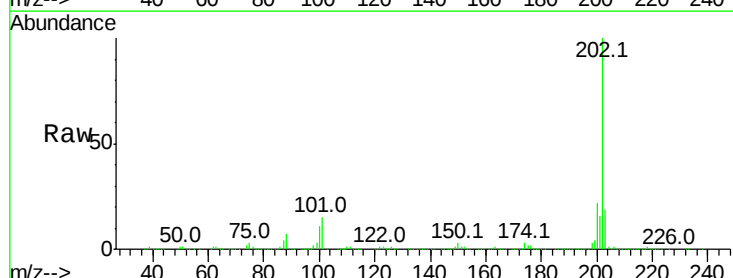
RT: 12.46 min Scan# 1763

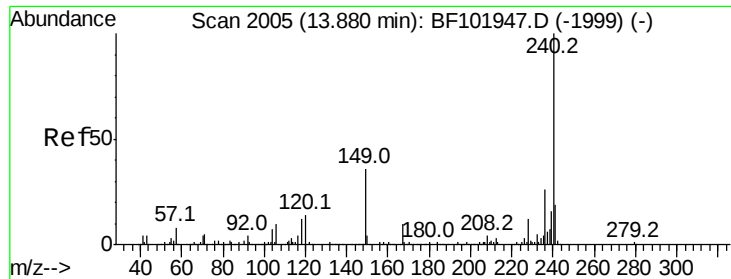
Delta R.T. 0.01 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Tgt Ion:	202	Resp:	1724938
Ion Ratio	Lower	Upper	
202	100		
101	15.1	0.0	34.1
203	18.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.00 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Instrument :

BNA_F

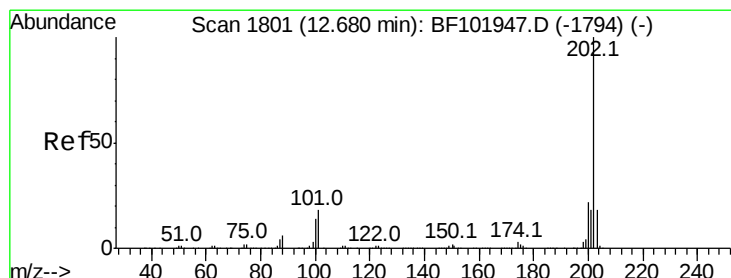
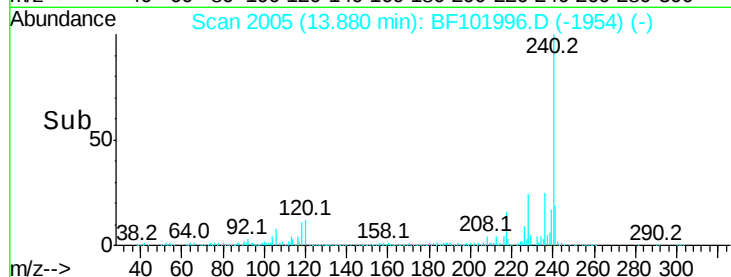
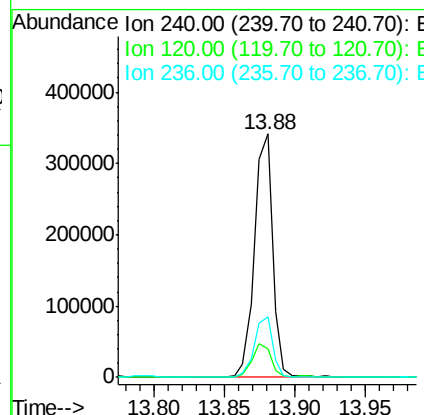
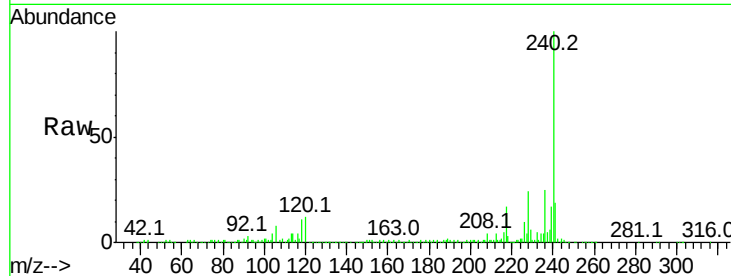
ClientSampleId :

WC-50-01

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.5	14.3
236	24.8	20.7	31.1

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#77

Pyrene

Concen: 51.899 ng

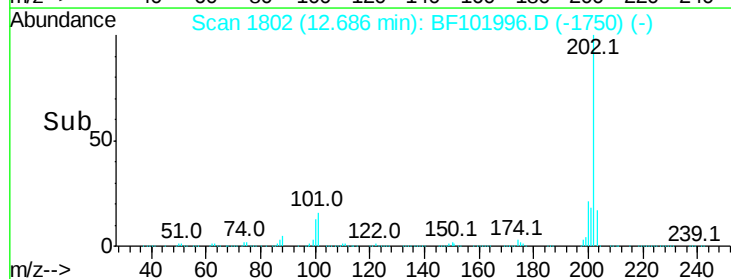
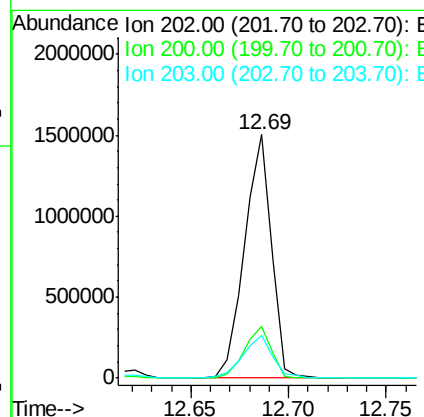
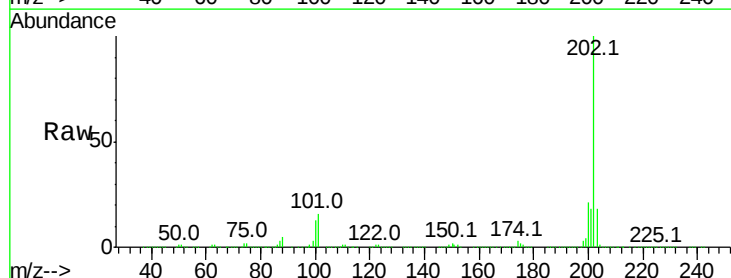
RT: 12.69 min Scan# 1802

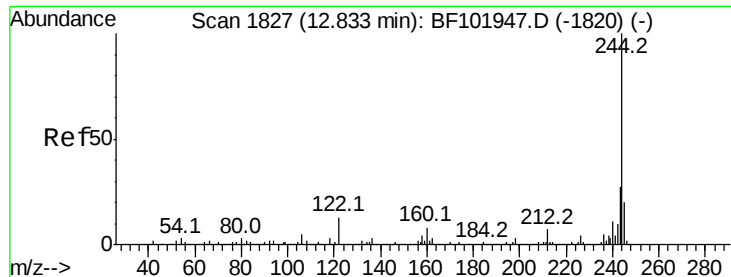
Delta R.T. 0.01 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.2
203	17.6	14.3	21.5





#78

Terphenyl-d14

Concen: 0.514 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

Instrument :

BNA_F

ClientSampleId :

WC-50-01

Tot Ion:244 Resp: 7706

Ion Ratio Lower Upper

244 100

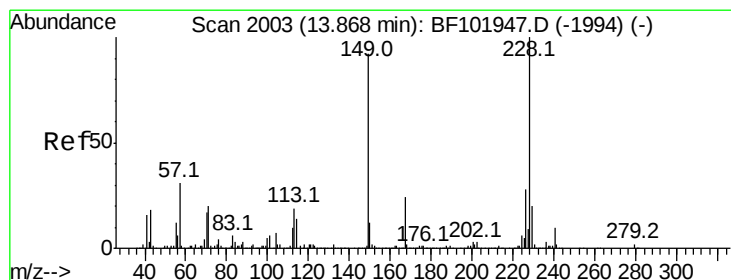
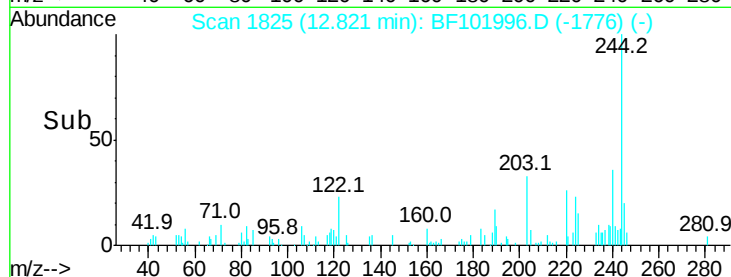
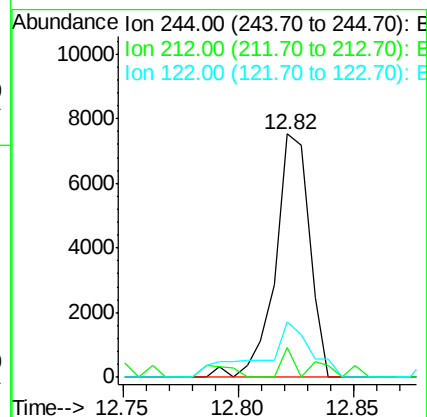
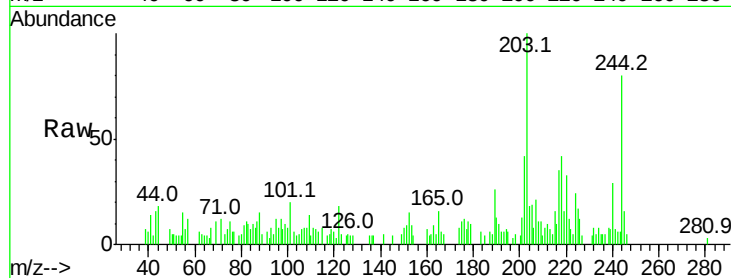
212 12.1 5.4 8.0#

122 23.0 11.0 16.4#

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#80

Benzo(a)anthracene

Concen: 31.566 ng m

RT: 13.87 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BF101996.D

Acq: 10 Jan 2018 23:03

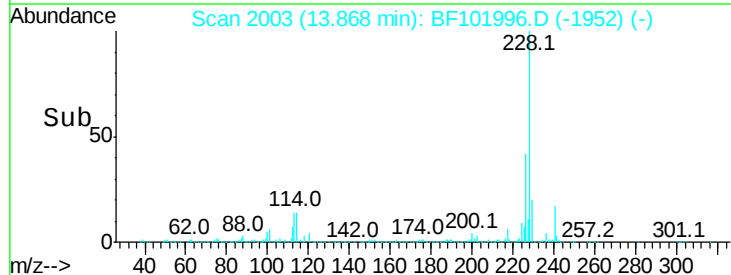
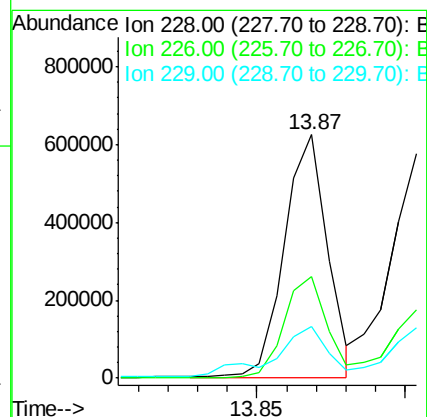
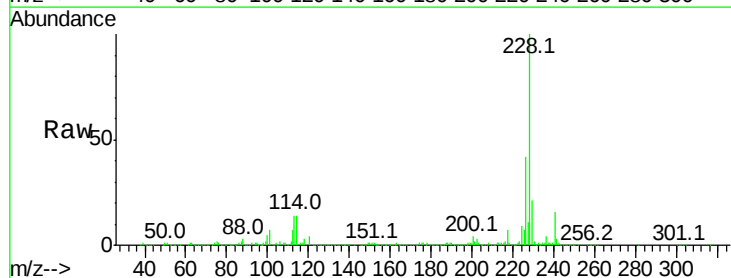
Tgt Ion:228 Resp: 627266

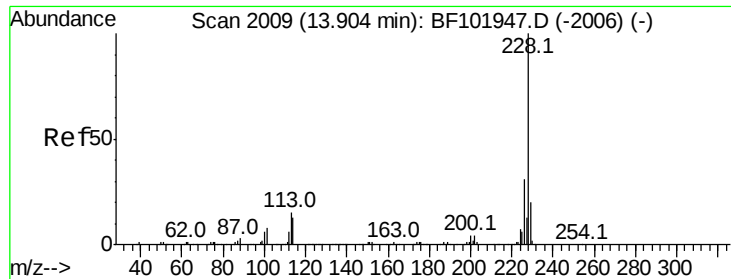
Ion Ratio Lower Upper

228 100

226 41.7 22.6 33.8#

229 21.1 15.8 23.6





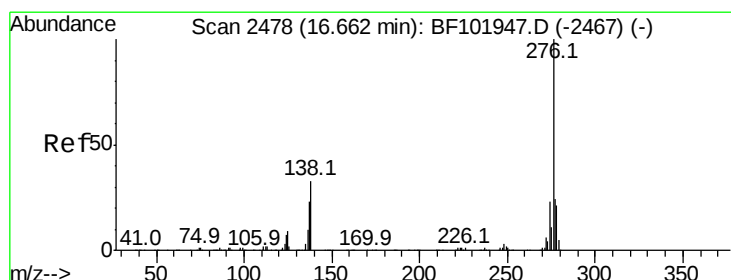
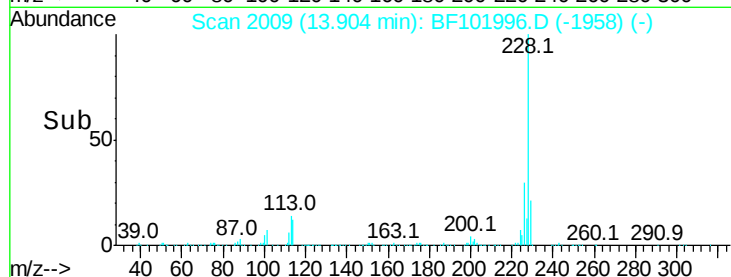
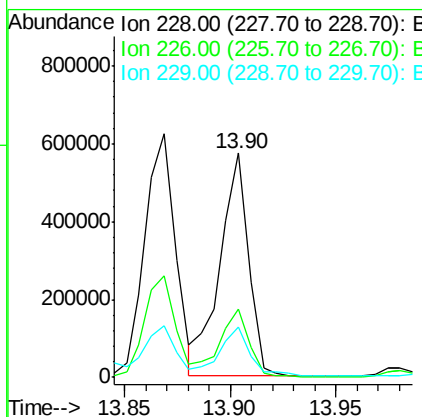
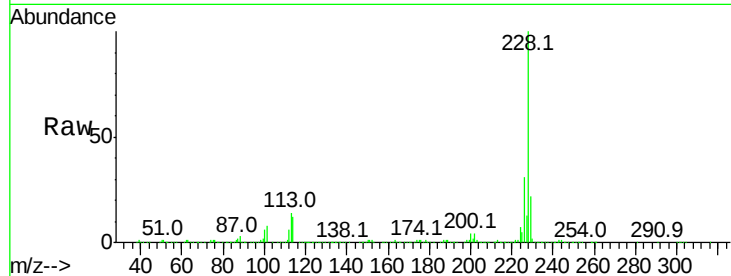
#82
Chrysene
Concen: 26.052 ng
RT: 13.90 min Scan# 2009
Delta R.T. 0.00 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Instrument :
BNA_F
ClientSampleId :
WC-50-01

Tot Ion:228	Resp:	539817
Ion Ratio	Lower	Upper
228 100		
226 30.5	25.0	37.6
229 22.3	16.2	24.4

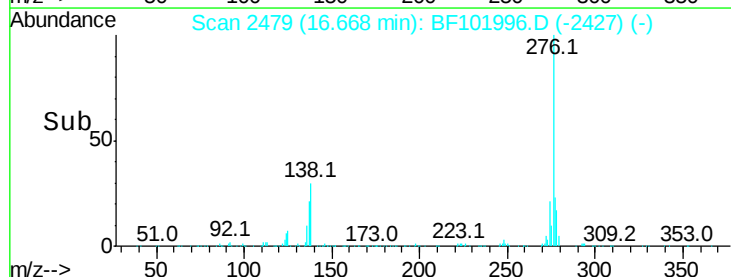
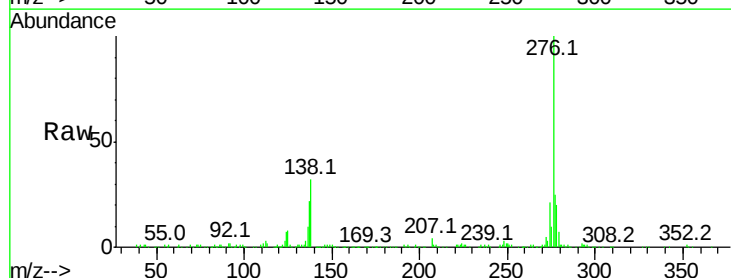
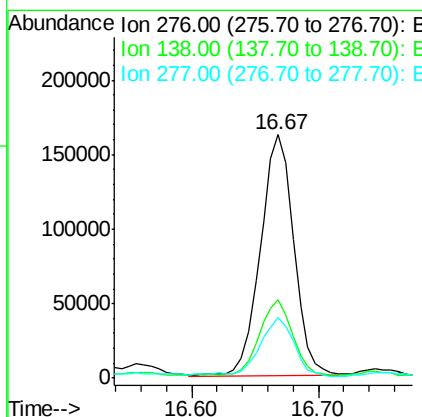
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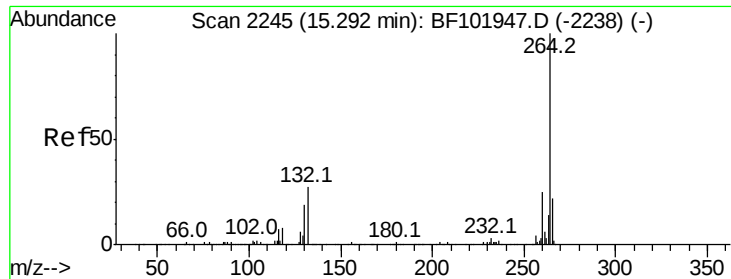
Sohil
1/11/2018 10:53:10 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 19.695 ng
RT: 16.67 min Scan# 2479
Delta R.T. 0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Tgt Ion:276	Resp:	297020
Ion Ratio	Lower	Upper
276 100		
138 31.4	25.0	37.6
277 25.4	20.1	30.1





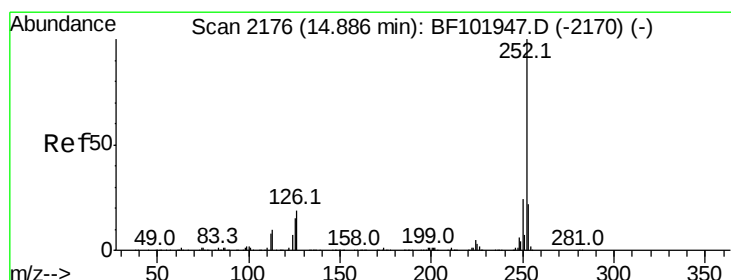
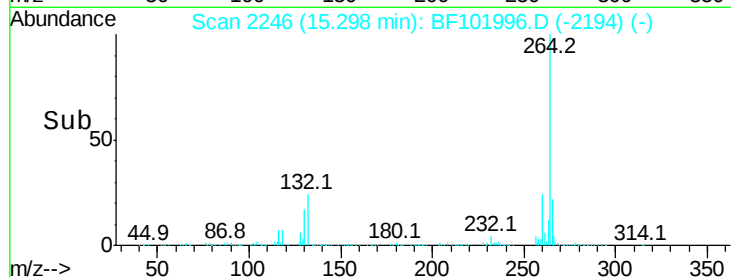
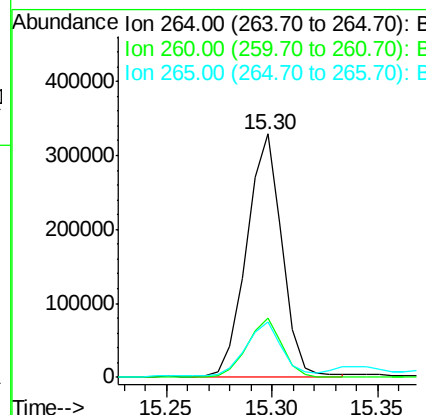
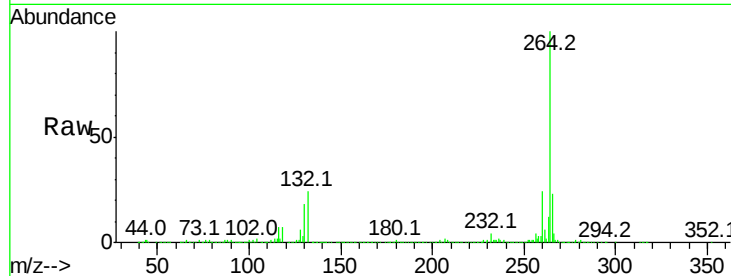
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. 0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Instrument :
BNA_F
ClientSampleId :
WC-50-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	22.6	17.5	26.3

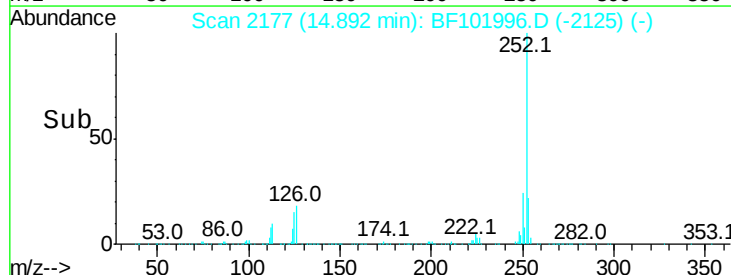
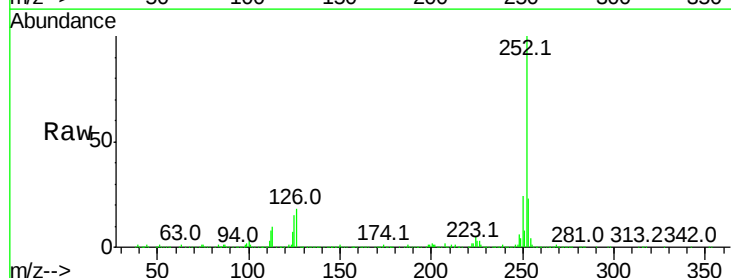
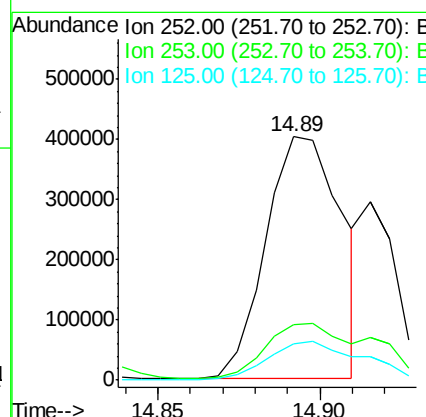
Manual Integrations
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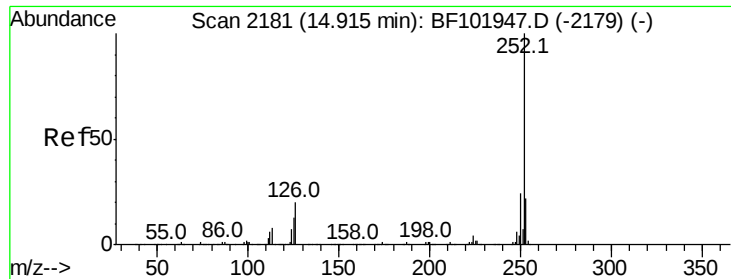
Sohil
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#87
Benzo(b)fluoranthene
Concen: 26.710 ng m
RT: 14.89 min Scan# 2177
Delta R.T. 0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	14.8	9.0	13.6





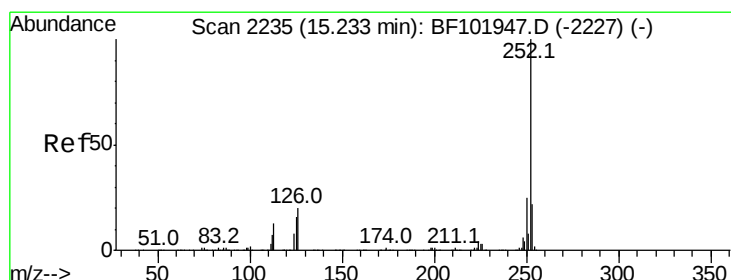
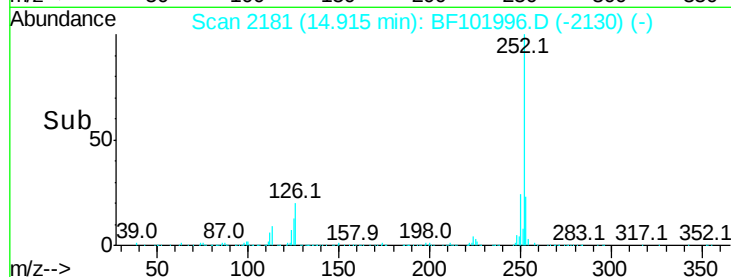
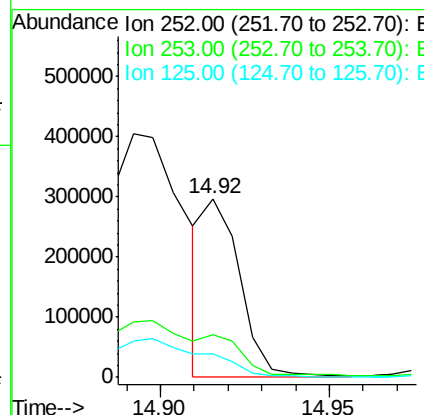
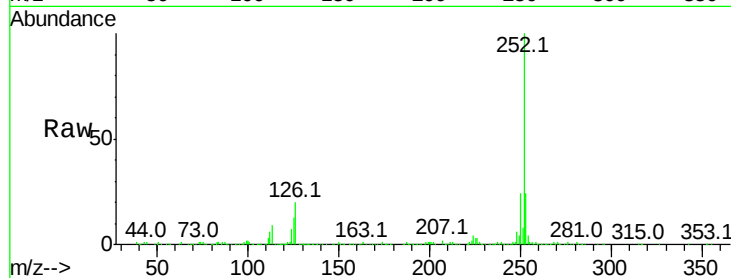
#88
Benzo(k)fluoranthene
Concen: 9.258 ng m
RT: 14.92 min Scan# 2181
Delta R.T. 0.00 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Instrument :
BNA_F
ClientSampleId :
WC-50-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	13.4	10.2	15.2

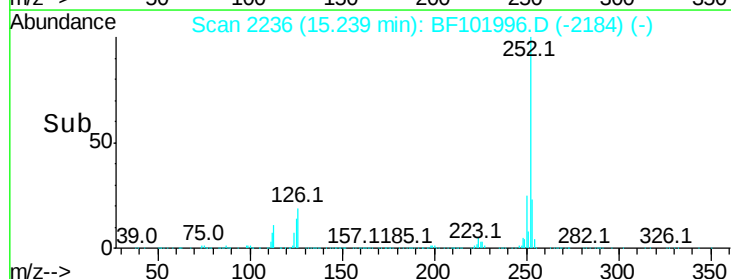
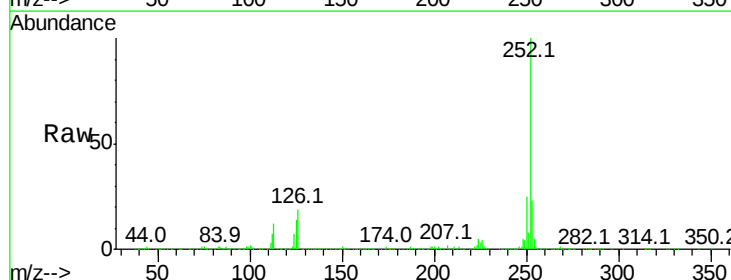
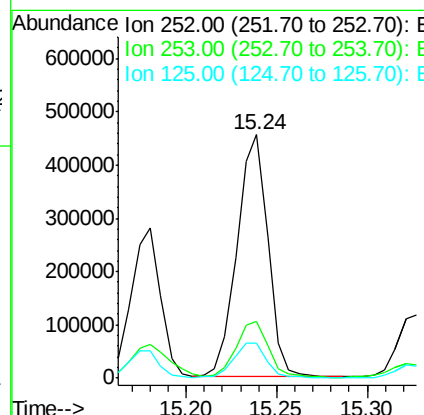
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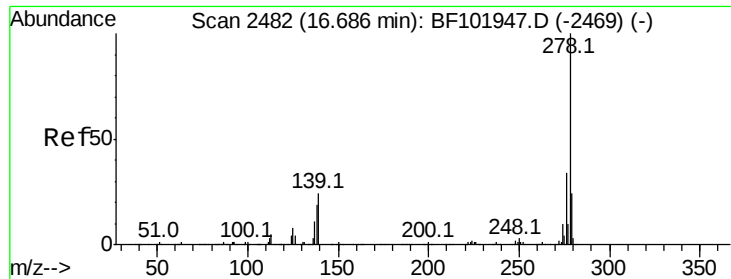
Sohil
1/11/2018 10:53:10 AM



#89
Benzo(a)pyrene
Concen: 24.304 ng
RT: 15.24 min Scan# 2236
Delta R.T. 0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	14.3	9.8	14.6





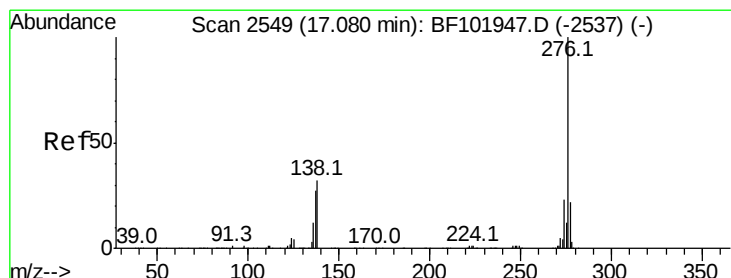
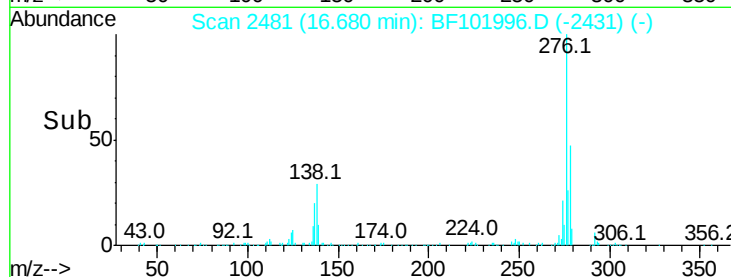
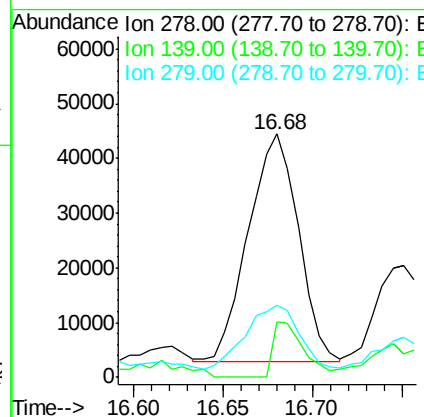
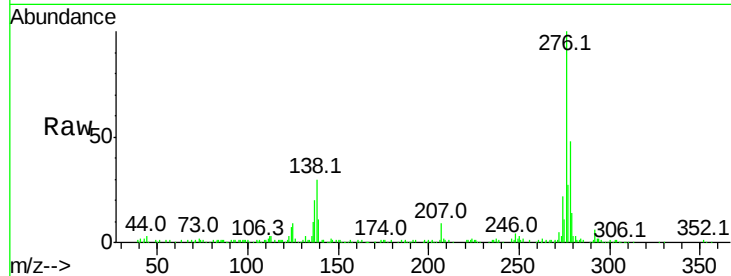
#90
Dibenzo(a,h)anthracene
Concen: 4.542 ng m
RT: 16.68 min Scan# 2481
Delta R.T. -0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Instrument :
BNA_F
ClientSampleId :
WC-50-01

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.7	15.9	23.9
279	29.5	19.0	28.4

Manual Integrations
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1/11/2018 10:53:10 AM



#91
Benzo(g,h,i)perylene
Concen: 15.128 ng
RT: 17.09 min Scan# 2550
Delta R.T. 0.01 min
Lab File: BF101996.D
Acq: 10 Jan 2018 23:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	31.7	21.8	32.8

