

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
 Data File : BF103792.D
 Acq On : 20 Mar 2018 8:36
 Operator : JU/SJ
 Sample : J1946-01DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL2

Manual Integrations
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Quant Time: Mar 20 10:42:38 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 15 18:31:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	137523	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	535181	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	231406	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	371560	20.00	ng	0.00
75) Chrysene-d12	14.16	240	286949	20.00	ng	0.00
86) Perylene-d12	15.69	264	257335	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.58	112	10567	1.17	ng	0.00
7) Phenol-d6	6.57	99	12919	1.17	ng	-0.01
23) Nitrobenzene-d5	7.52	82	6926	0.90	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	1956	0.98	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	14736	1.02	ng	0.00
78) Terphenyl-d14	13.09	244	12237	0.99	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.27	128	1287131	47.611	ng	99
37) 2-Methylnaphthalene	8.96	142	437766	25.534	ng	99
45) 1,1'-Biphenyl	9.43	154	84438	4.376	ng	96
48) Acenaphthylene	9.87	152	159845	6.726	ng	# 97
51) Acenaphthene	10.05	154	75171	5.327	ng	96
57) Fluorene	10.56	166	136997	8.760	ng	100
70) Phenanthrene	11.53	178	510948	25.139	ng	99
71) Anthracene	11.58	178	127397	6.171	ng	99
74) Fluoranthene	12.72	202	175157	8.365	ng	98
77) Pyrene	12.95	202	279350	13.256	ng	98
80) Benzo(a)anthracene	14.14	228	99478m	5.477	ng	
82) Chrysene	14.18	228	101572	5.866	ng	97
87) Benzo(b)fluoranthene	15.23	252	62742m	3.859	ng	
89) Benzo(a)pyrene	15.62	252	66494	4.509	ng	96
91) Benzo(a,h,i)perylene	17.73	276	29774	2.397	ng	94

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

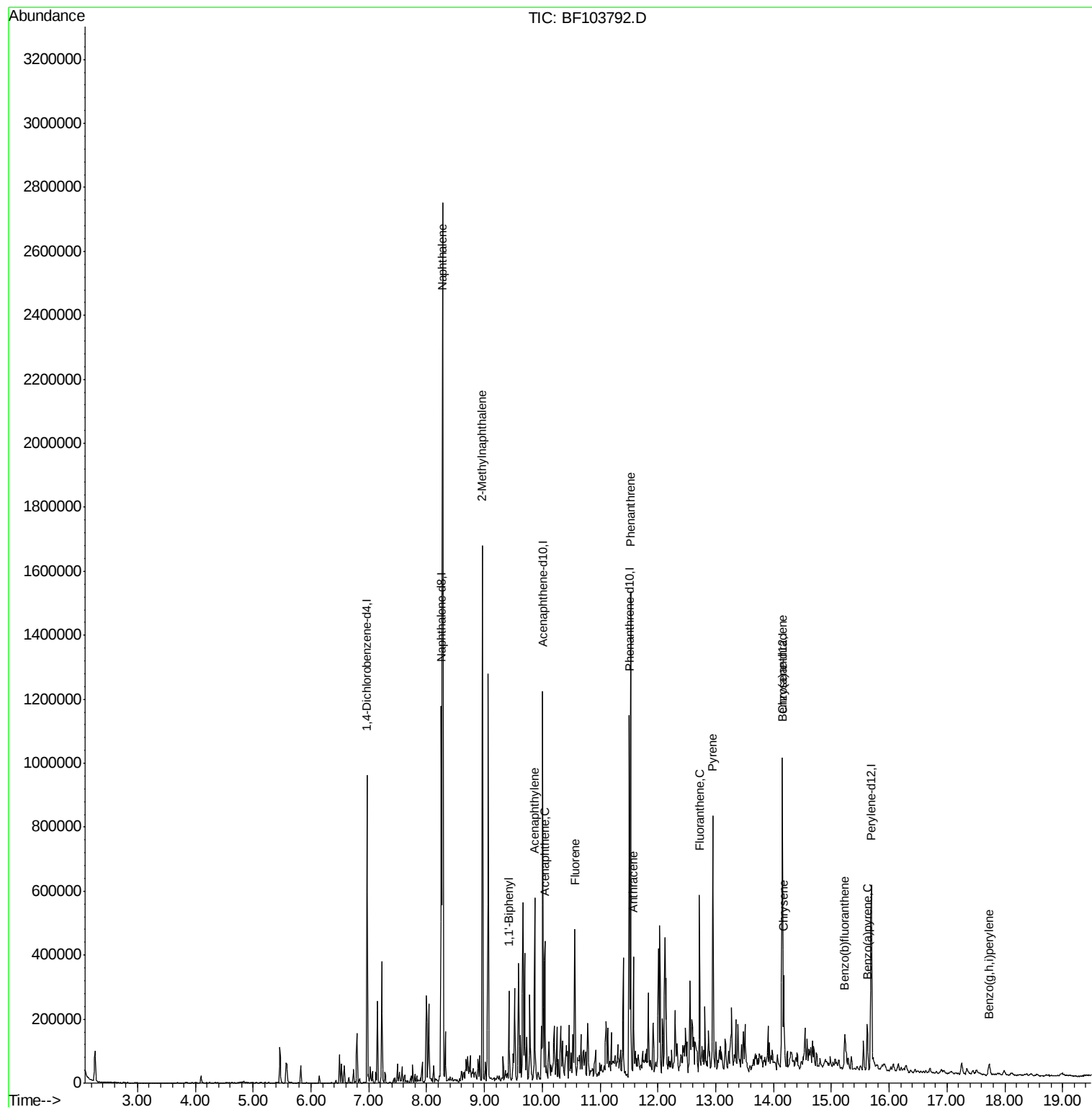
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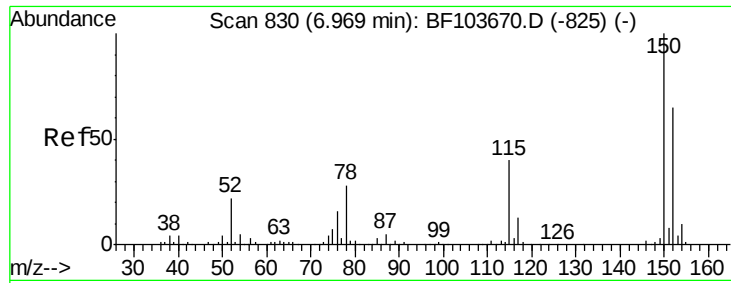
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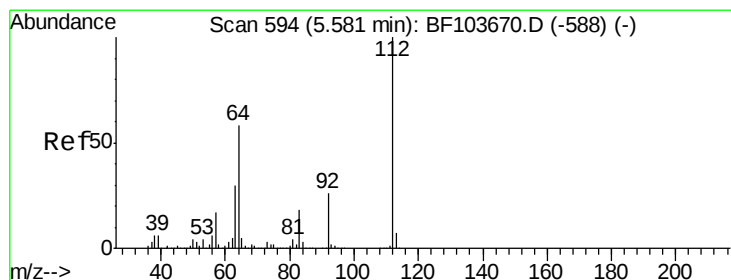
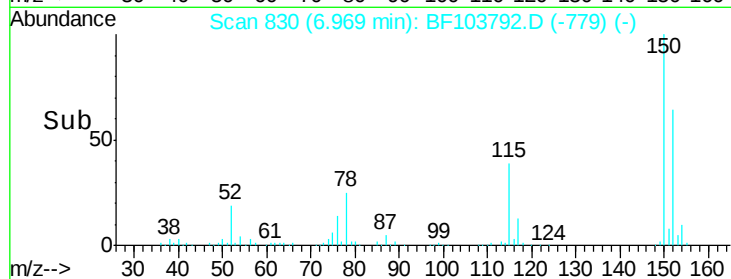
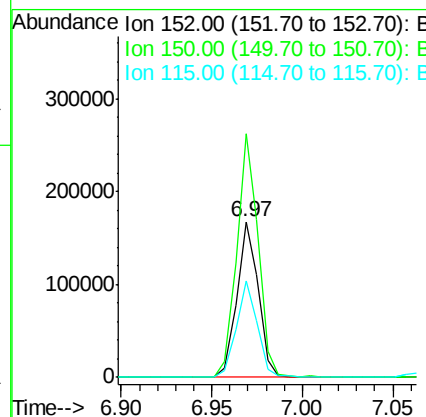
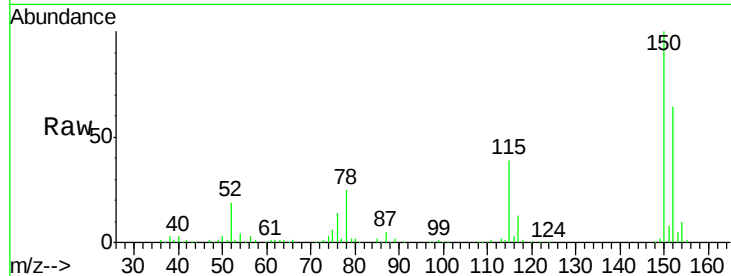
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 830
 Delta R.T. 0.00 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL2

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.6	186.8
115	61.8	50.1	75.1

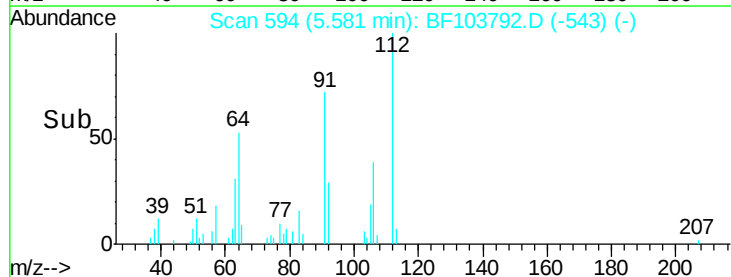
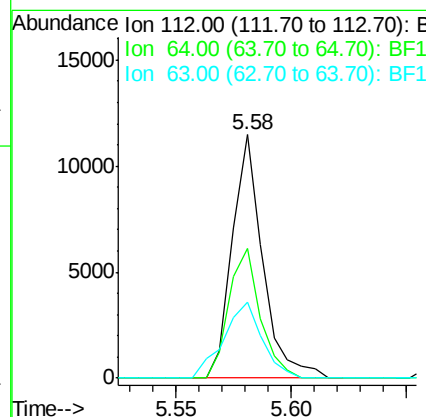
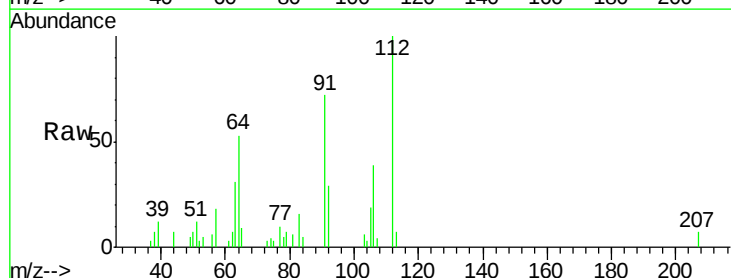
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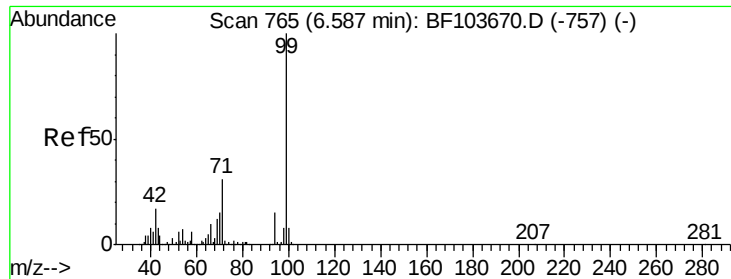
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#5
 2-Fluorophenol
 Concen: 1.169 ng
 RT: 5.58 min Scan# 594
 Delta R.T. 0.00 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	47.9	71.9
63	31.3	23.7	35.5





#7

Phenol-d6

Concen: 1.168 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF103792.D

Acq: 20 Mar 2018 8:36

Instrument :

BNA_F

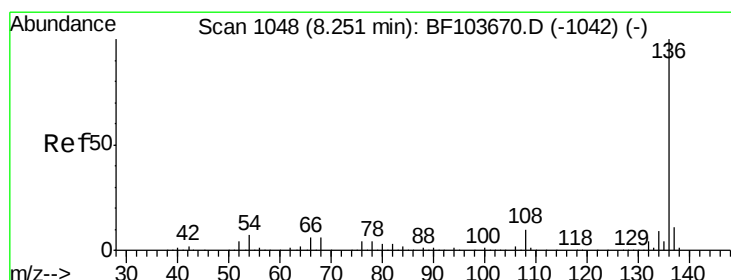
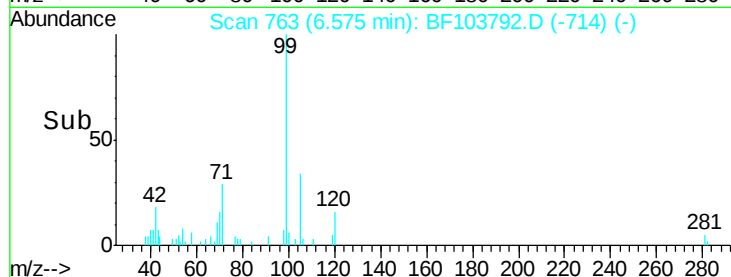
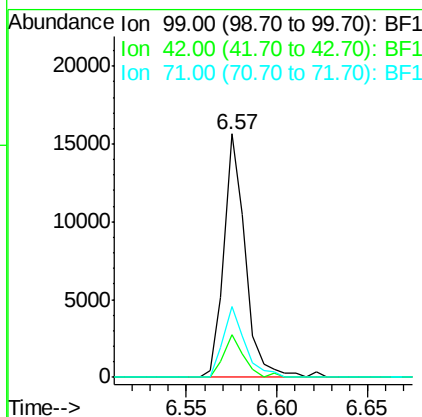
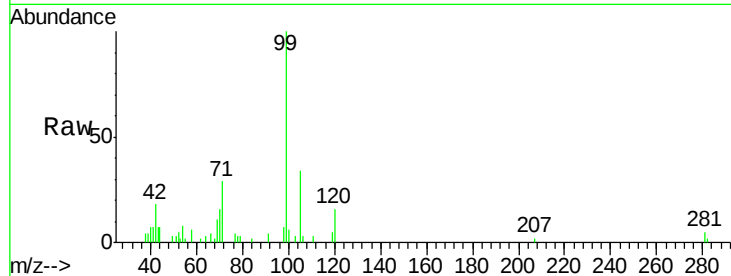
ClientSampleId :

SB-104(4-5)DL2

Tot Ion:	99	Resp:	12919
Ion Ratio	Lower	Upper	
99	100		
42	17.7	14.5	21.7
71	29.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

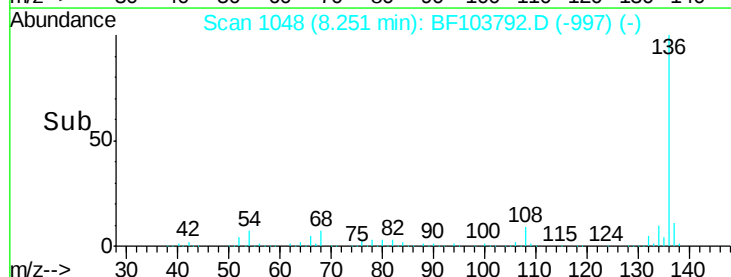
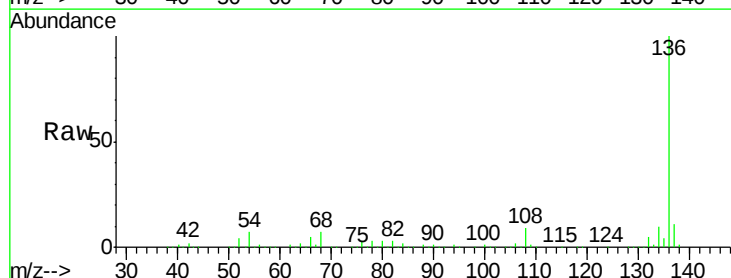
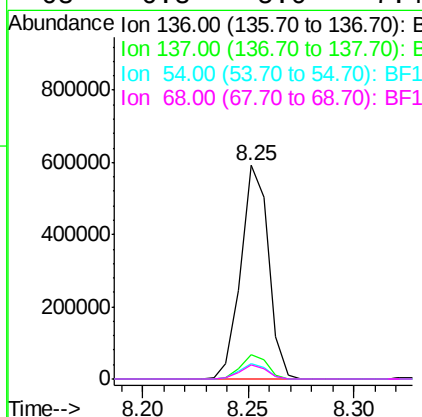
RT: 8.25 min Scan# 1048

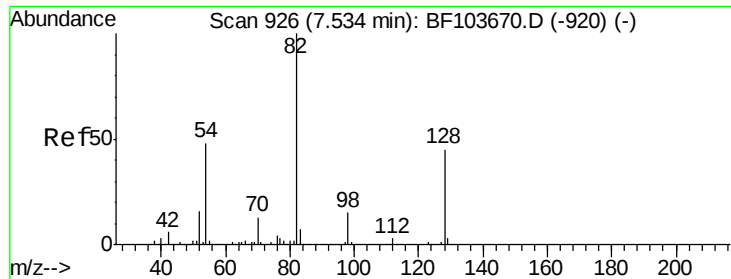
Delta R.T. 0.00 min

Lab File: BF103792.D

Acq: 20 Mar 2018 8:36

Tgt Ion:	136	Resp:	535181
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.9	13.3
54	7.5	6.6	9.8
68	6.8	5.0	7.4





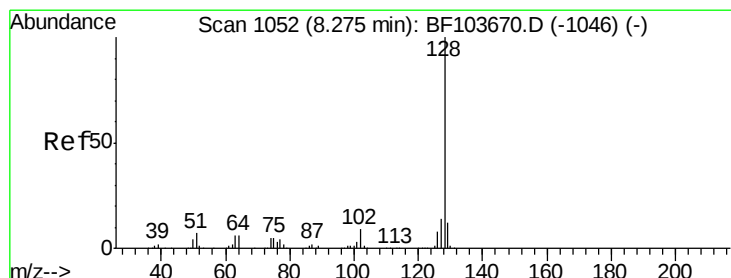
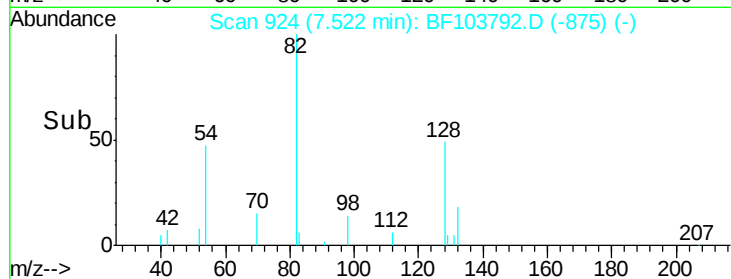
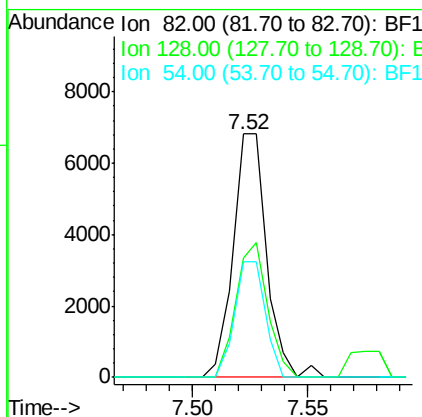
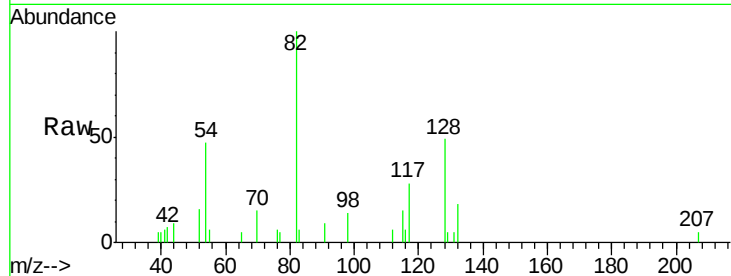
#23
 Nitrobenzene-d5
 Concen: 0.902 ng
 RT: 7.52 min Scan# 924
 Delta R.T. -0.01 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL2

Tot Ion:	82	Resp:	6926
Ion	Ratio	Lower	Upper
82	100		
128	48.9	36.1	54.1
54	47.3	41.4	62.2

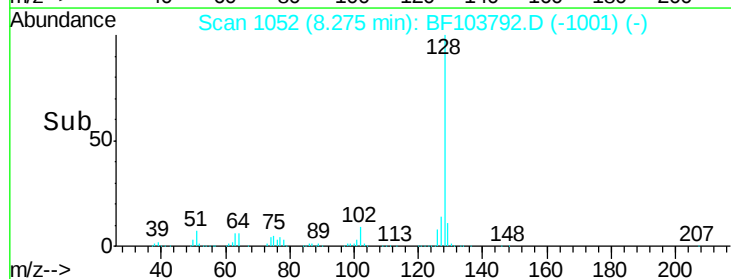
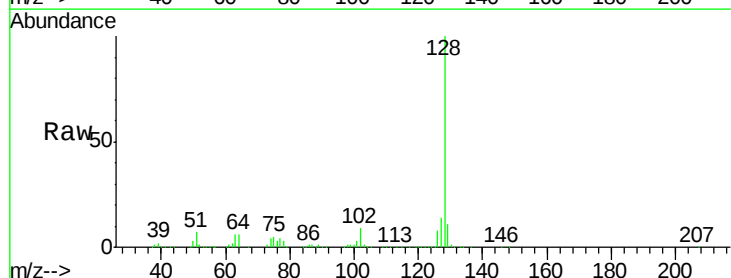
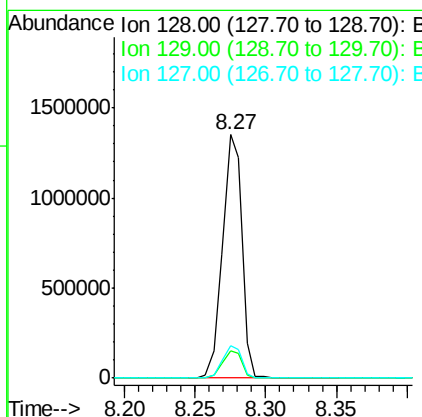
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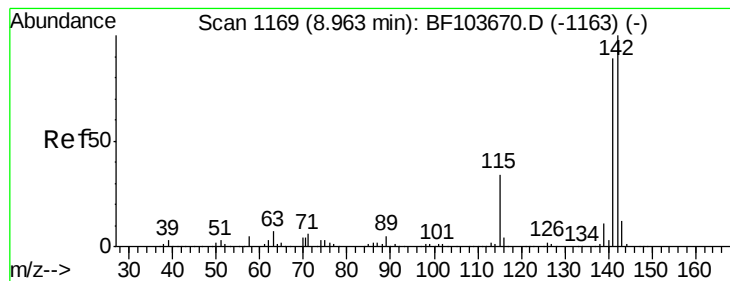
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#31
 Naphthalene
 Concen: 47.611 ng
 RT: 8.27 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Tgt Ion:	128	Resp:	1287131
Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	13.6	10.9	16.3





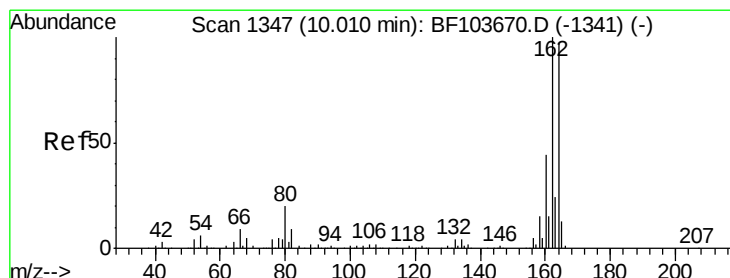
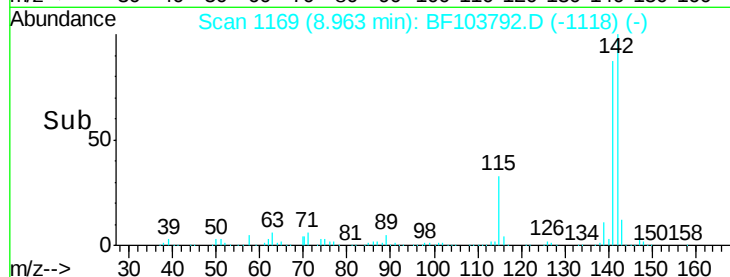
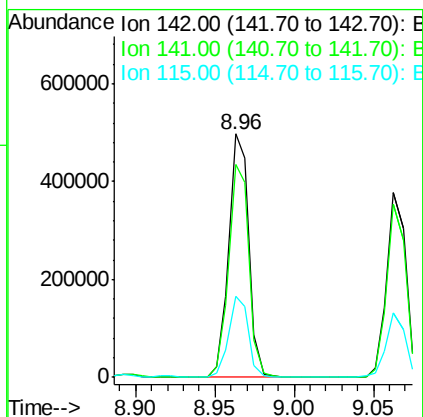
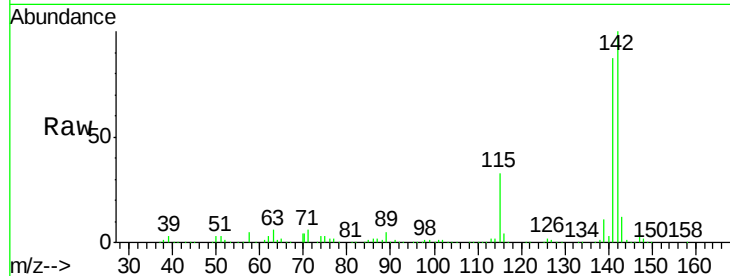
#37
2-Methylnaphthalene
Concen: 25.534 ng
RT: 8.96 min Scan# 1169
Delta R.T. 0.00 min
Lab File: BF103792.D
Acq: 20 Mar 2018 8:36

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL2

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.4	70.8	106.2
115	33.3	26.1	39.1

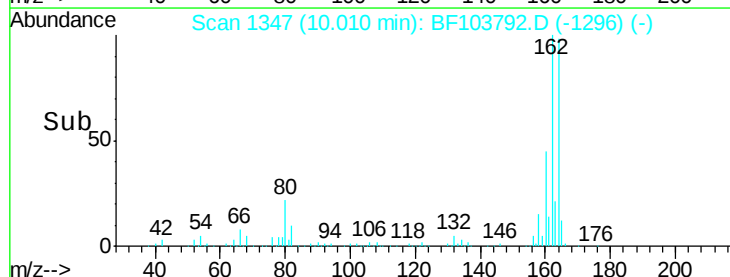
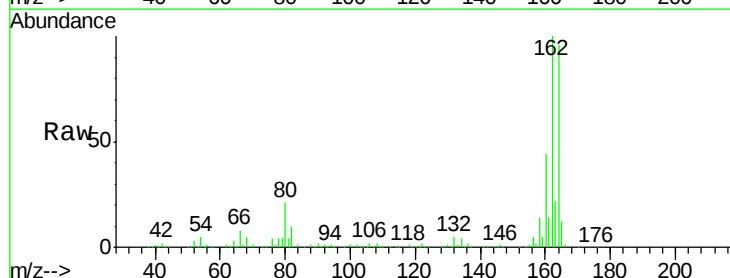
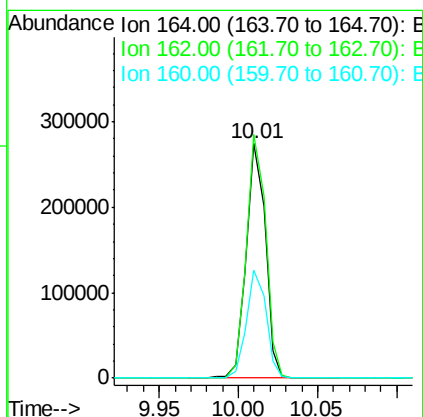
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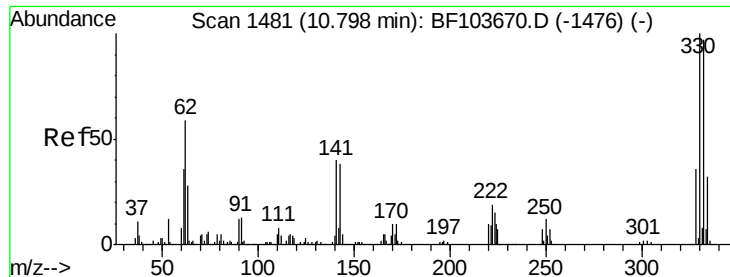
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1347
Delta R.T. 0.00 min
Lab File: BF103792.D
Acq: 20 Mar 2018 8:36

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	86.1	129.1
160	46.1	38.3	57.5





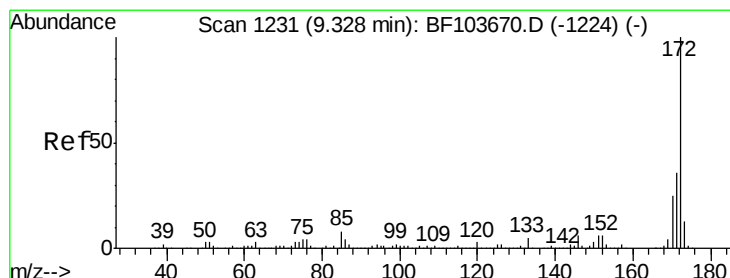
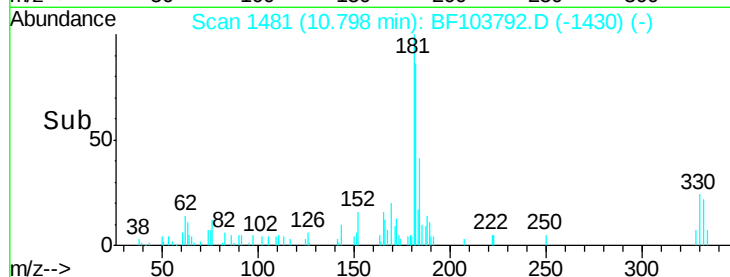
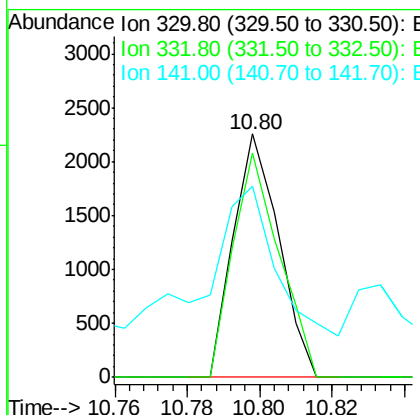
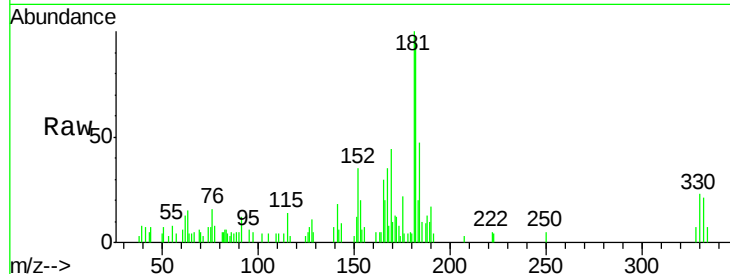
#41
 2,4,6-Tribromophenol
 Concen: 0.983 ng
 RT: 10.80 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL2

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.2	77.0	115.6
141	89.3	29.9	44.9

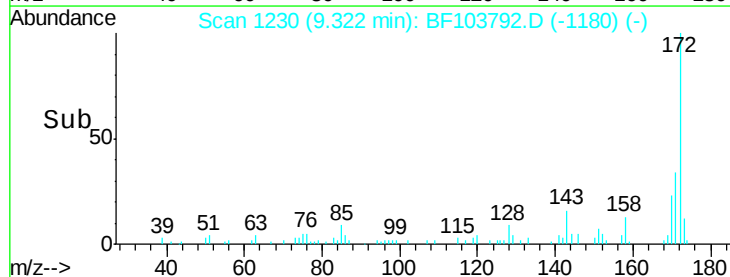
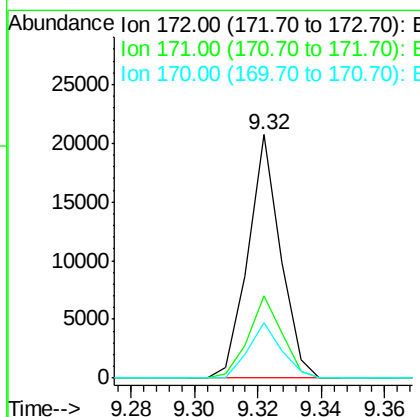
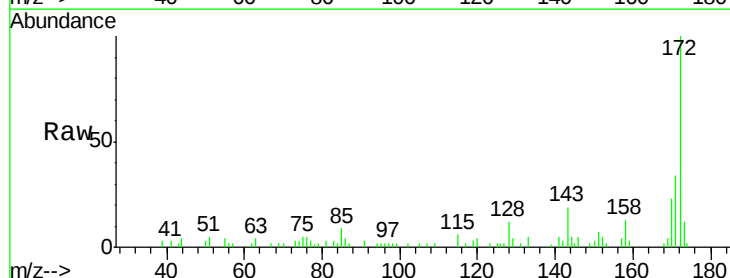
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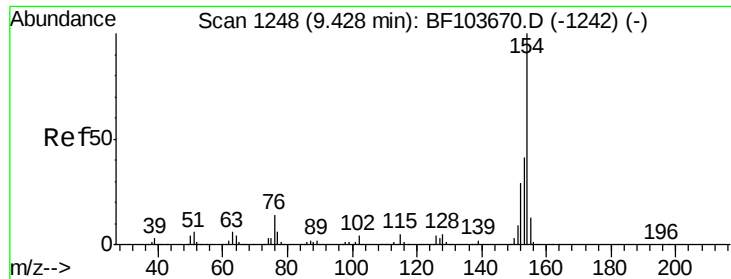
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#44
 2-Fluorobiphenyl
 Concen: 1.016 ng
 RT: 9.32 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.6	29.7	44.5
170	22.8	19.6	29.4





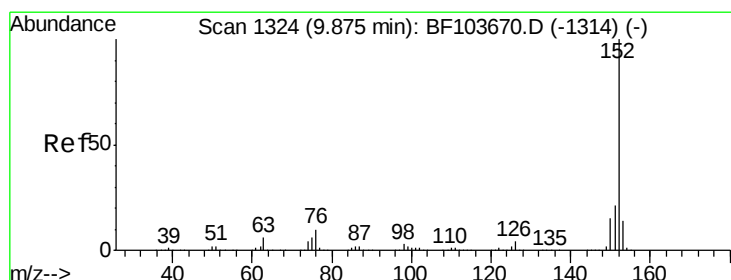
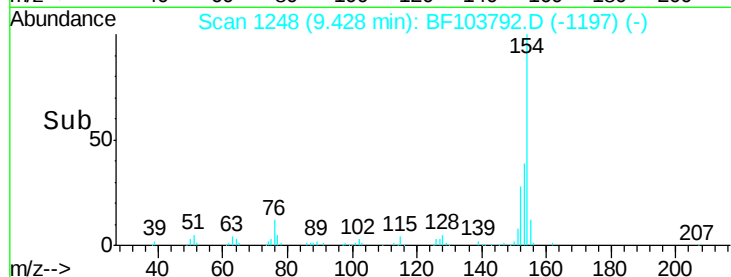
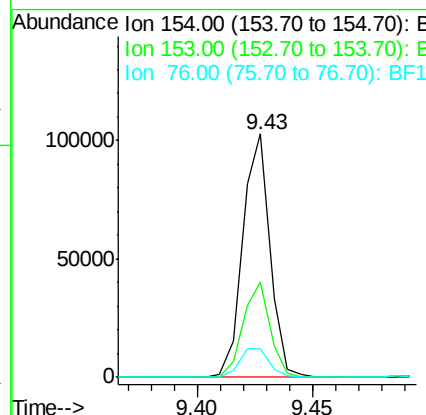
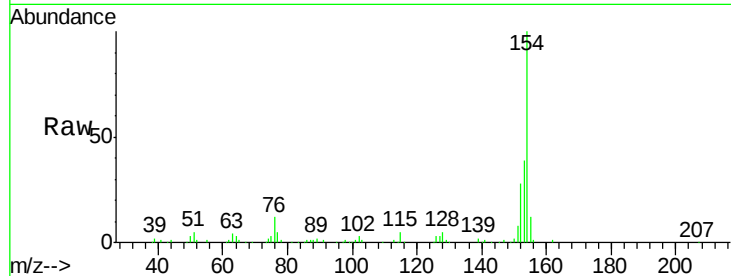
#45
 1,1'-Biphenyl
 Concen: 4.376 ng
 RT: 9.43 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL2

Tot Ion:	154	Resp:	84438
Ion Ratio	Lower	Upper	
154	100		
153	39.0	21.3	61.3
76	11.9	0.0	34.0

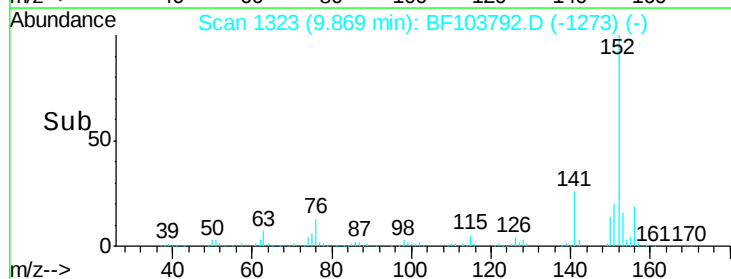
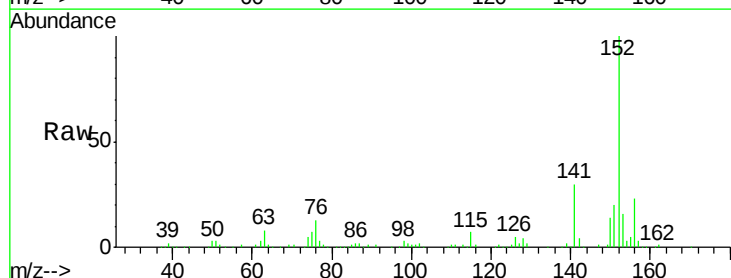
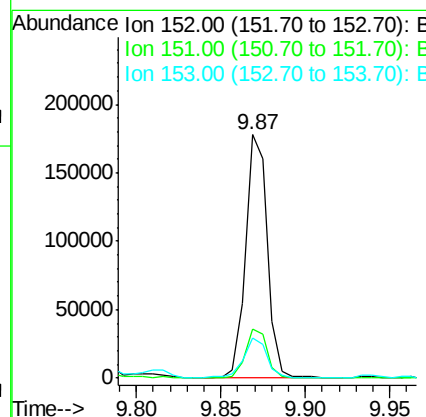
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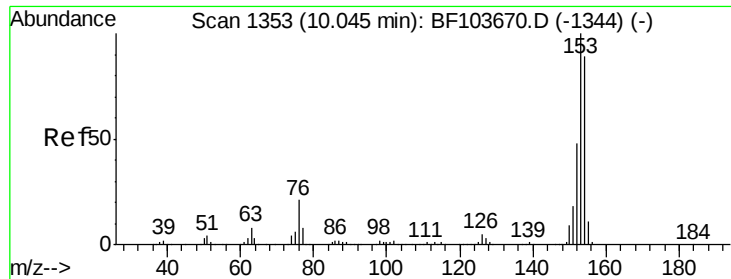
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#48
 Acenaphthylene
 Concen: 6.726 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Tgt Ion:	152	Resp:	159845
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.3	24.5
153	16.3	10.7	16.1#





#51

Acenaphthene

Concen: 5.327 ng

RT: 10.05 min Scan# 1353

Delta R.T. 0.00 min

Lab File: BF103792.D

Acq: 20 Mar 2018 8:36

Instrument :

BNA_F

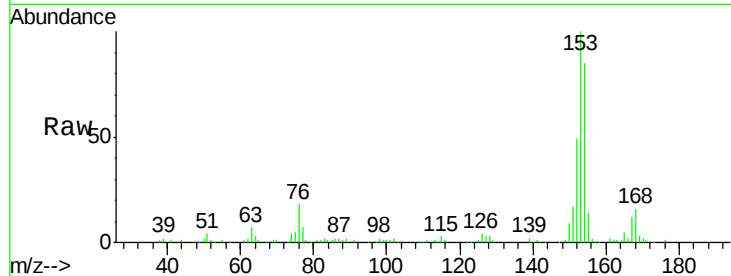
ClientSampleId :

SB-104(4-5)DL2

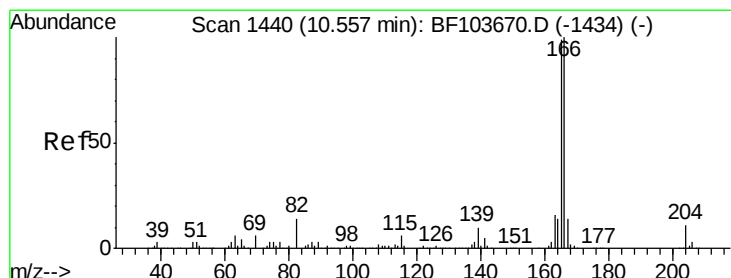
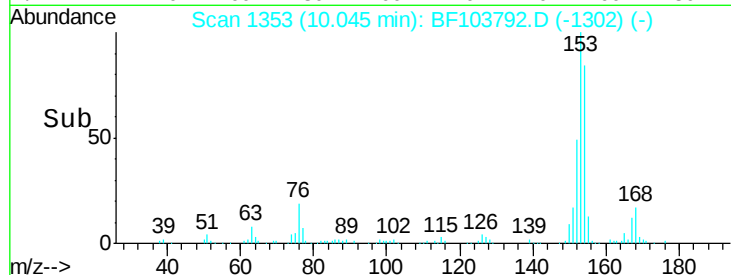
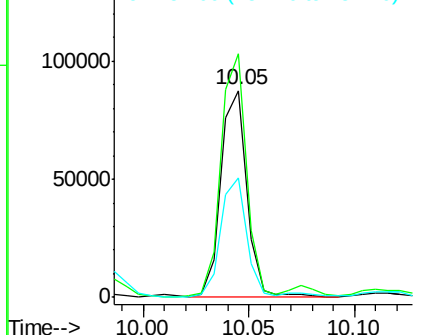
Tot Ion:	154	Resp:	75171
Ion Ratio	Lower	Upper	
154	100		
153	117.8	91.2	136.8
152	57.8	43.8	65.8

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 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 8.760 ng

RT: 10.56 min Scan# 1441

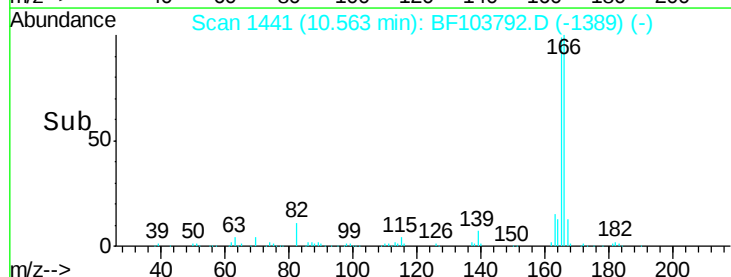
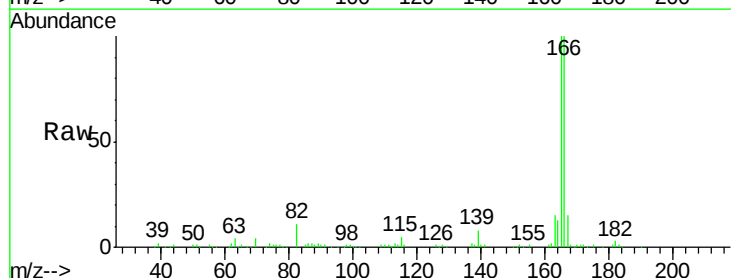
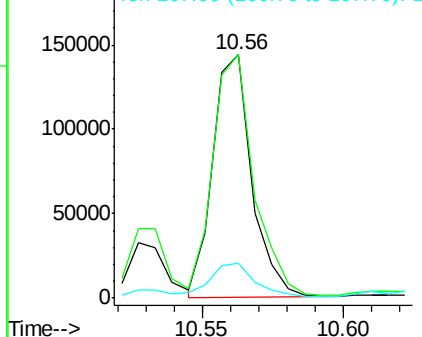
Delta R.T. 0.01 min

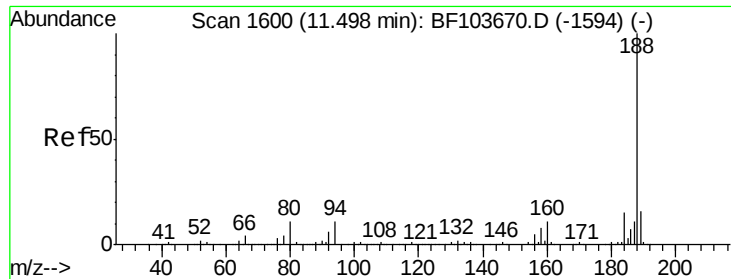
Lab File: BF103792.D

Acq: 20 Mar 2018 8:36

Tgt Ion:	166	Resp:	136997
Ion Ratio	Lower	Upper	
166	100		
165	99.9	79.8	119.8
167	14.5	10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





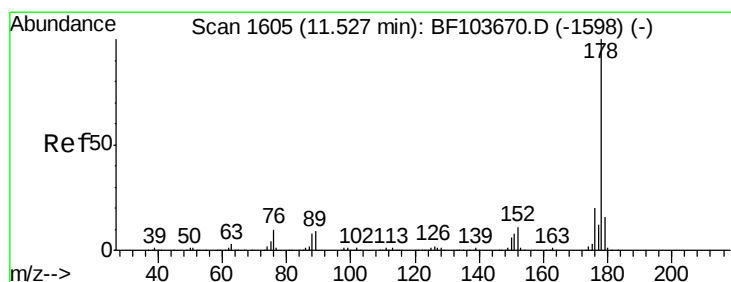
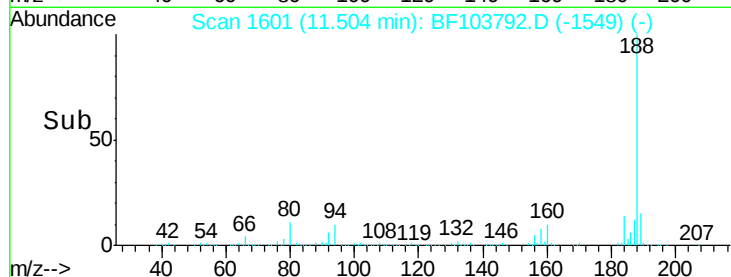
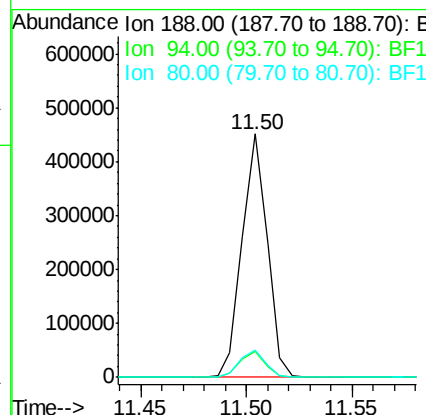
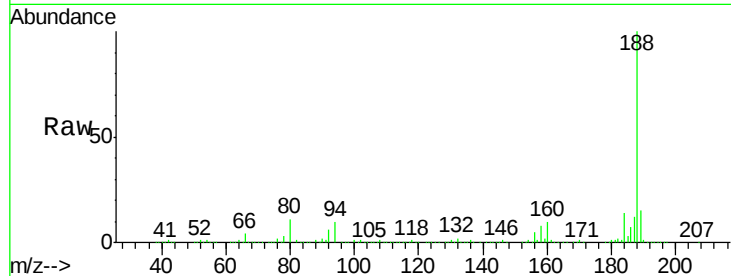
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1601
Delta R.T. 0.01 min
Lab File: BF103792.D
Acq: 20 Mar 2018 8:36

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL2

Tot Ion	Ratio	Resp	Lower	Upper
188	100	371560		
94	10.5		8.5	12.7
80	11.1		9.2	13.8

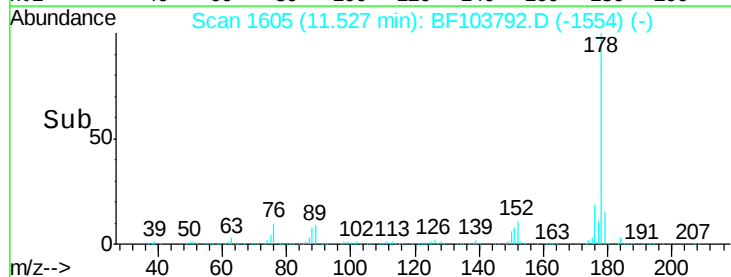
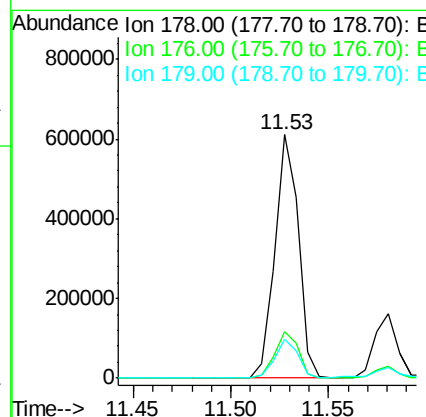
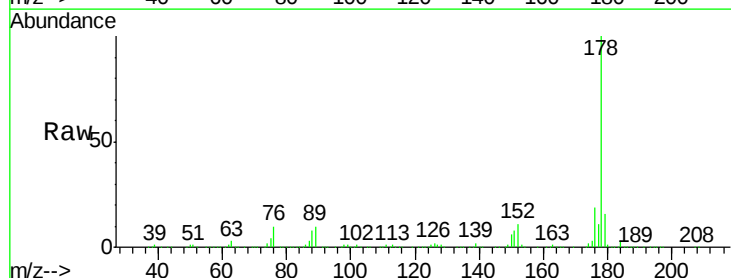
Manual Integrations
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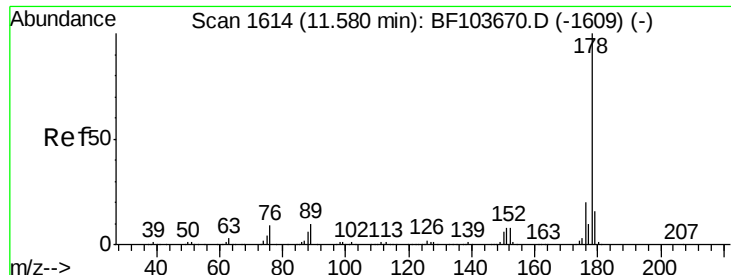
Sohil
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#70
Phenanthrene
Concen: 25.139 ng
RT: 11.53 min Scan# 1605
Delta R.T. 0.00 min
Lab File: BF103792.D
Acq: 20 Mar 2018 8:36

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	510948		
176	19.3		15.8	23.8
179	15.8		13.0	19.6





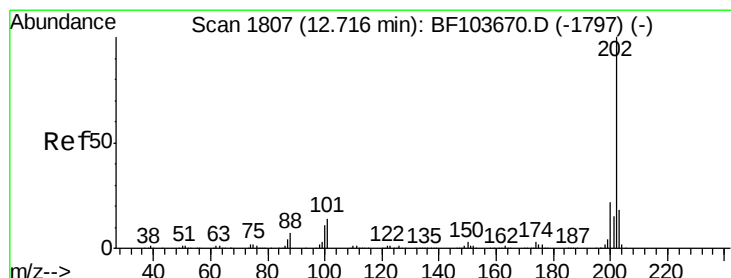
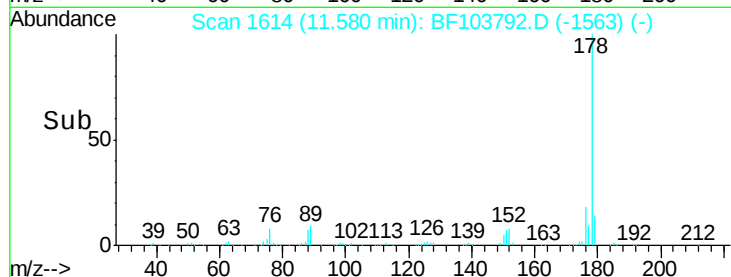
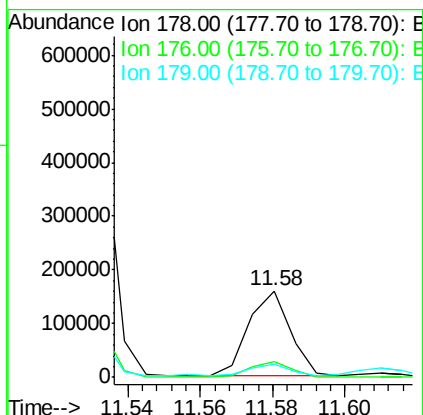
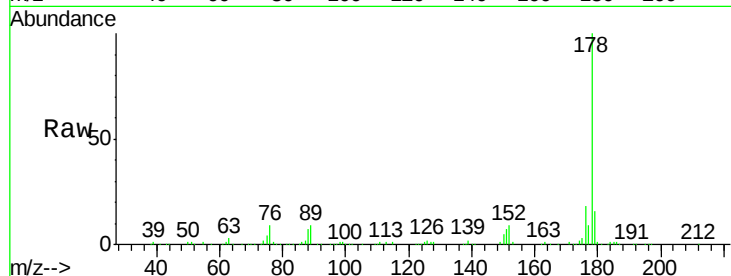
#71
 Anthracene
 Concen: 6.171 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. 0.00 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL2

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	16.0	12.6	19.0

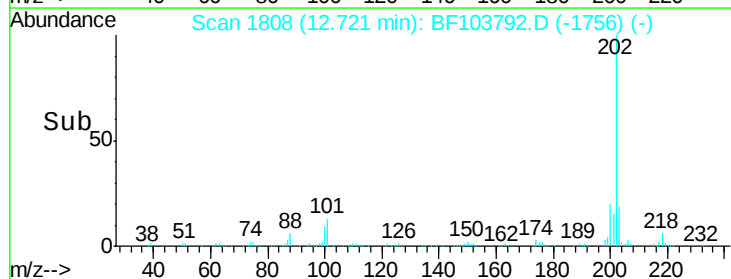
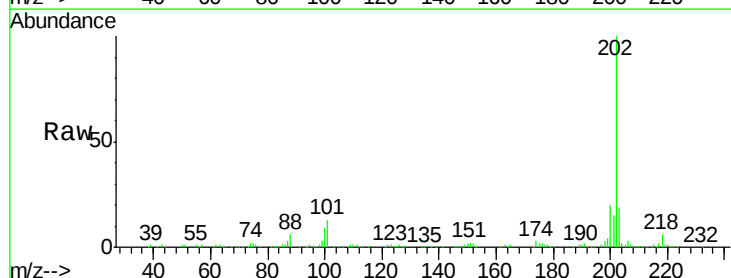
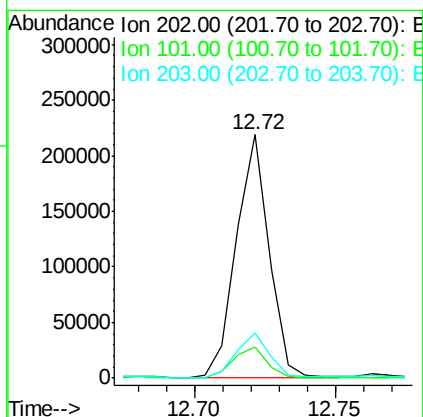
Manual Integrations
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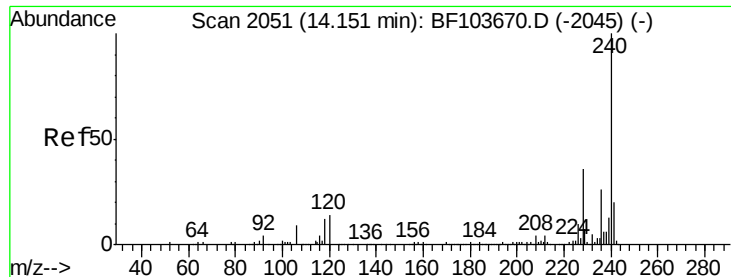
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#74
 Fluoranthene
 Concen: 8.365 ng
 RT: 12.72 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	34.1
203	18.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2052

Delta R.T. 0.01 min

Lab File: BF103792.D

Acq: 20 Mar 2018 8:36

Instrument :

BNA_F

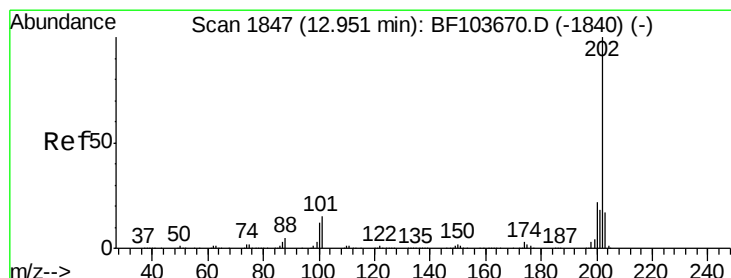
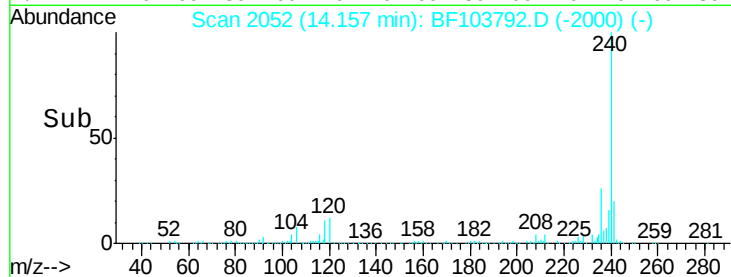
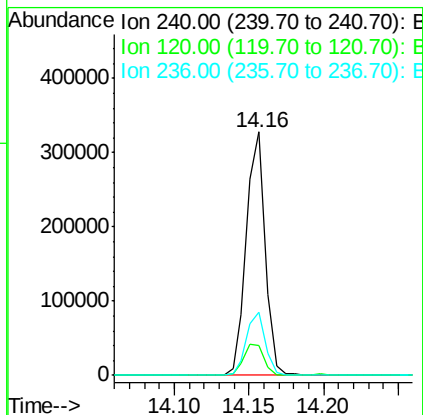
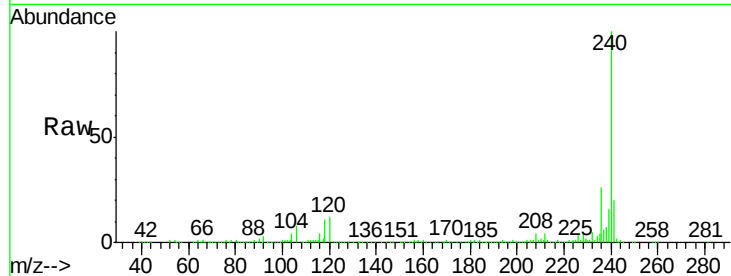
ClientSampleId :

SB-104(4-5)DL2

Tot Ion:	240	Resp:	286949
Ion Ratio	Lower	Upper	
240	100		
120	12.1	9.5	14.3
236	26.0	20.7	31.1

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#77

Pyrene

Concen: 13.256 ng

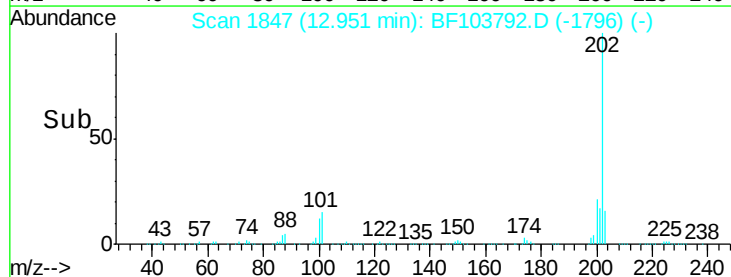
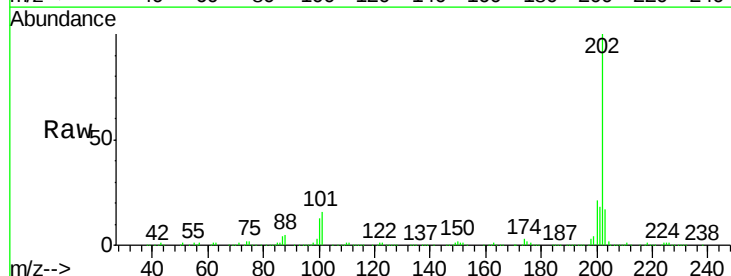
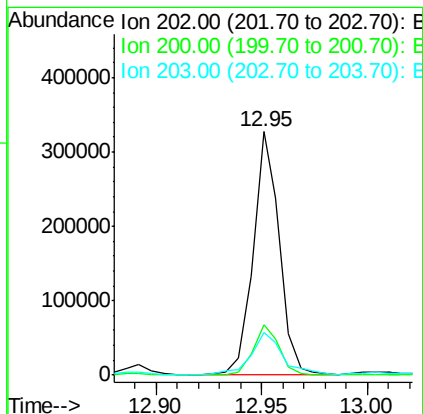
RT: 12.95 min Scan# 1847

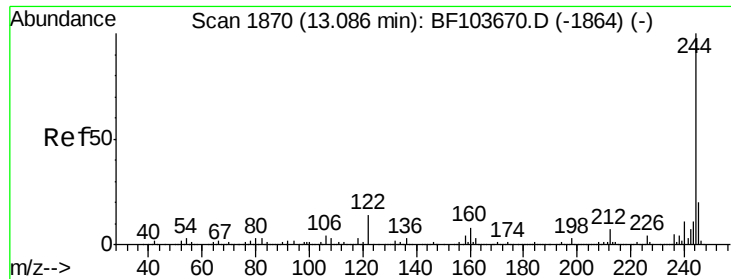
Delta R.T. 0.00 min

Lab File: BF103792.D

Acq: 20 Mar 2018 8:36

Tgt Ion:	202	Resp:	279350
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.4	26.2
203	17.4	14.3	21.5





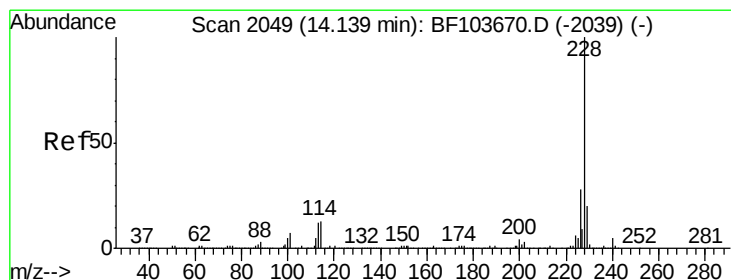
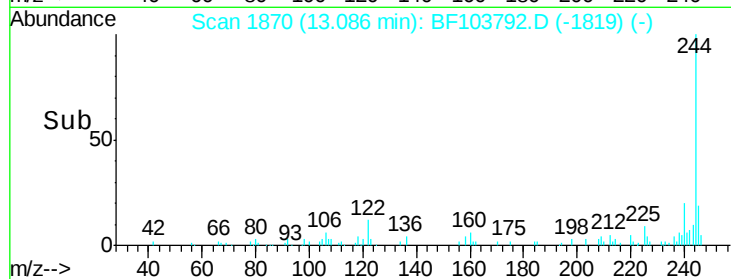
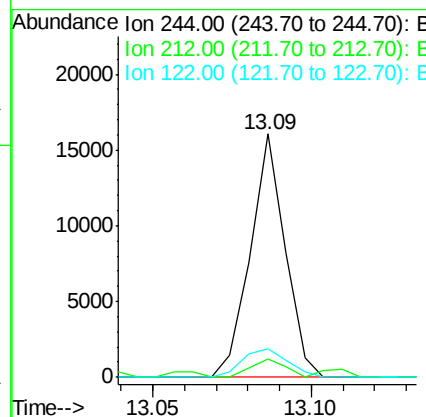
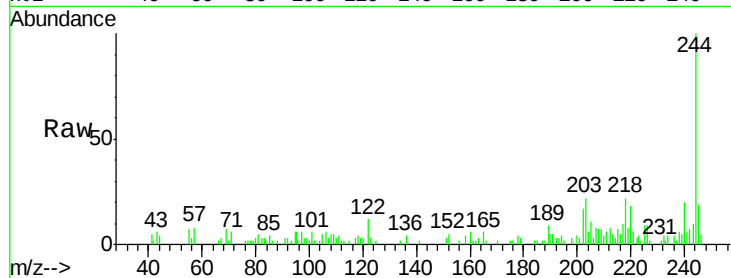
#78
 Terphenyl-d14
 Concen: 0.990 ng
 RT: 13.09 min Scan# 1870
 Delta R.T. 0.00 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL2

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.4	8.0
122	11.7	11.0	16.4

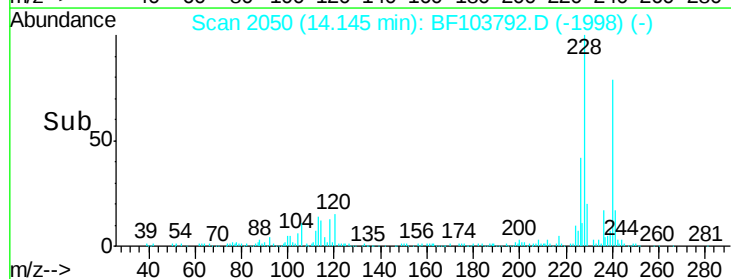
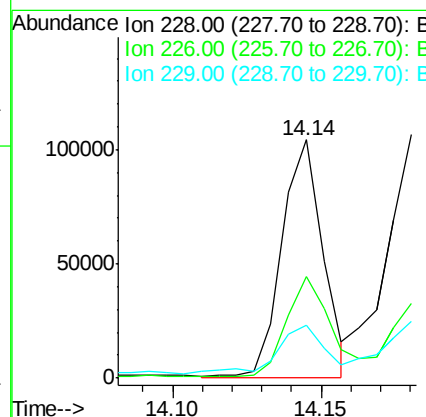
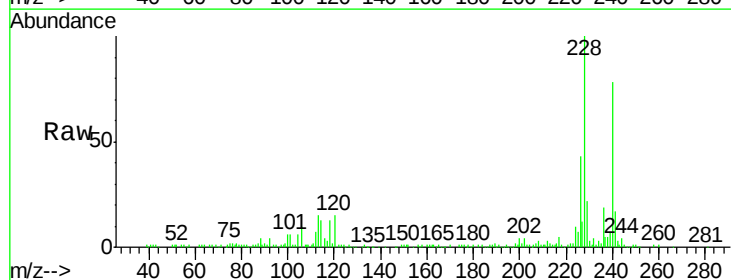
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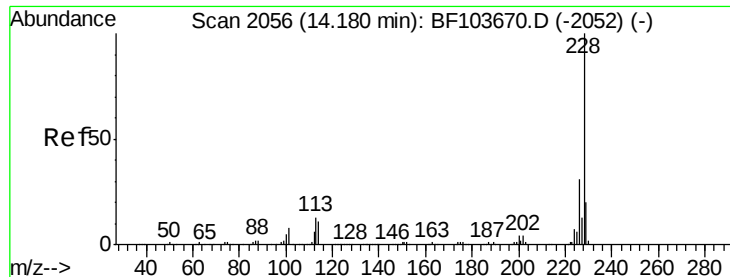
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#80
 Benzo(a)anthracene
 Concen: 5.477 ng m
 RT: 14.14 min Scan# 2050
 Delta R.T. 0.01 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	42.6	22.6	33.8#
229	22.1	15.8	23.6





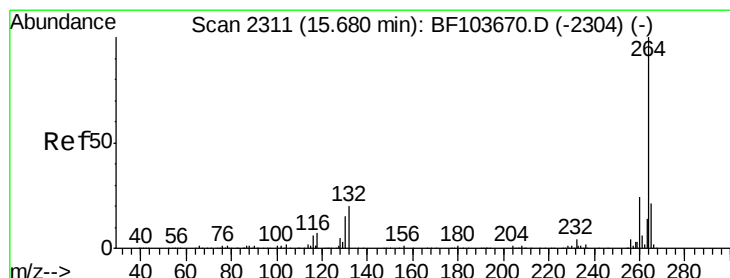
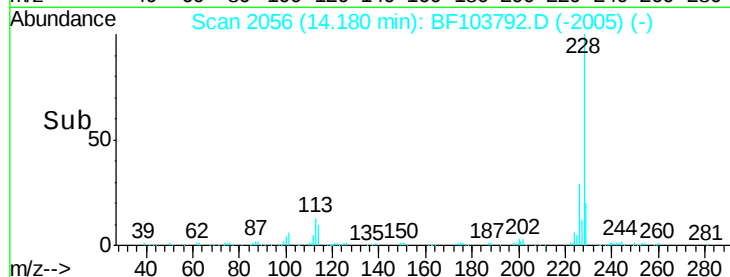
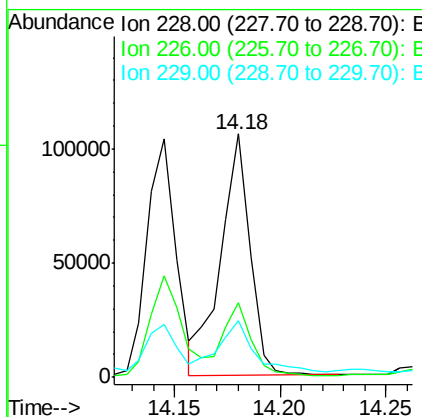
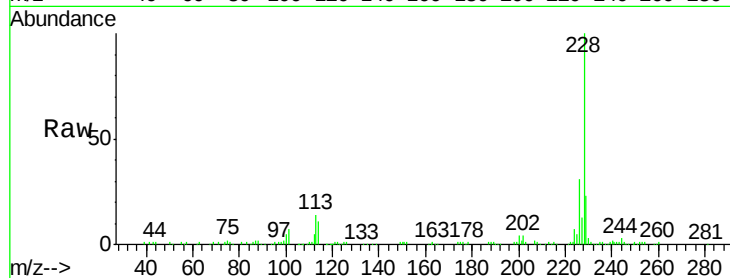
#82
Chrysene
Concen: 5.866 ng
RT: 14.18 min Scan# 2056
Delta R.T. 0.00 min
Lab File: BF103792.D
Acq: 20 Mar 2018 8:36

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL2

Tot Ion:	228	Resp:	101572
Ion Ratio		Lower	Upper
228	100		
226	30.8	25.0	37.6
229	23.2	16.2	24.4

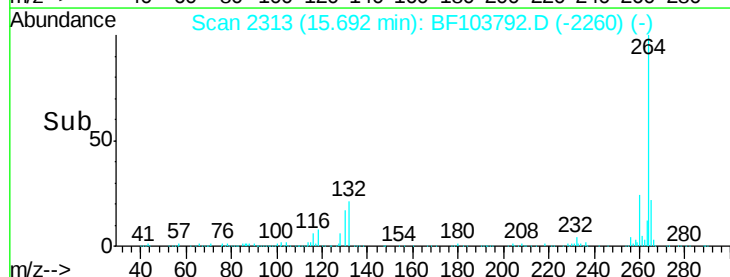
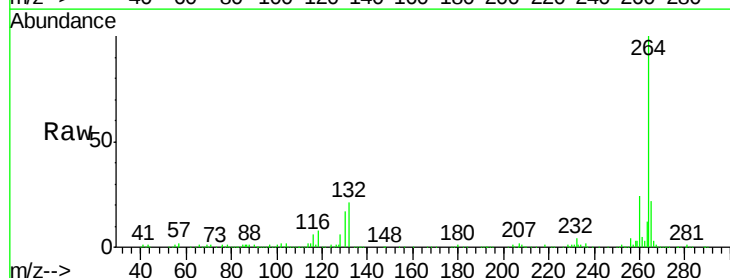
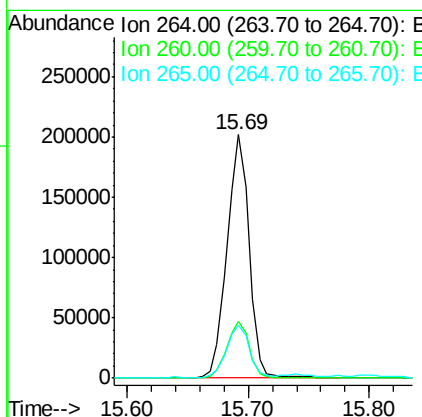
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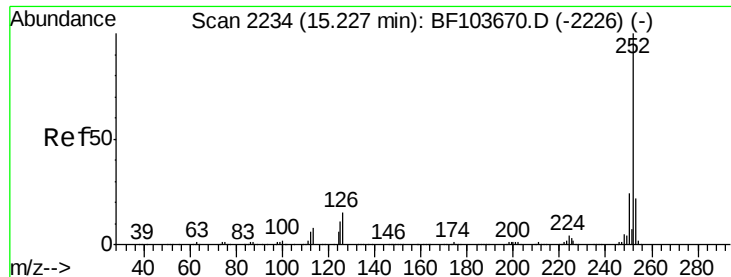
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2313
Delta R.T. 0.01 min
Lab File: BF103792.D
Acq: 20 Mar 2018 8:36

Tgt Ion:	264	Resp:	257335
Ion Ratio		Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.9	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 3.859 ng

RT: 15.23 min Scan# 2235

Delta R.T. 0.01 min

Lab File: BF103792.D

Acq: 20 Mar 2018 8:36

Instrument :

BNA_F

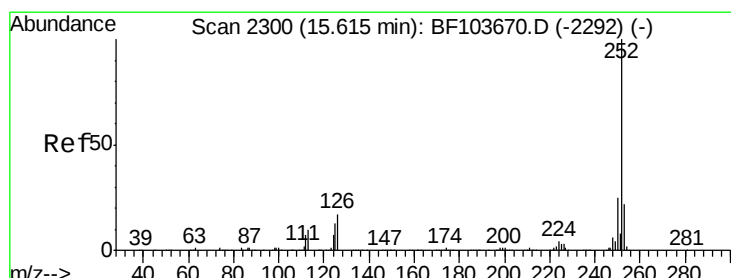
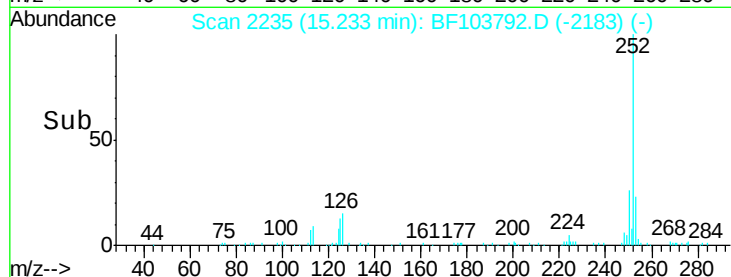
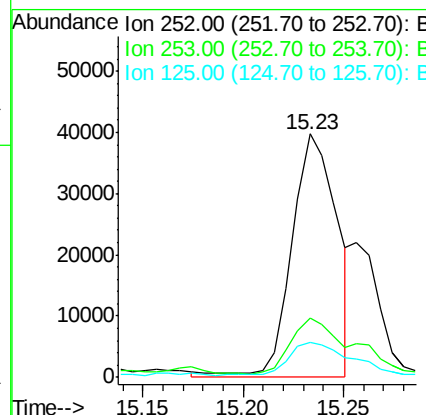
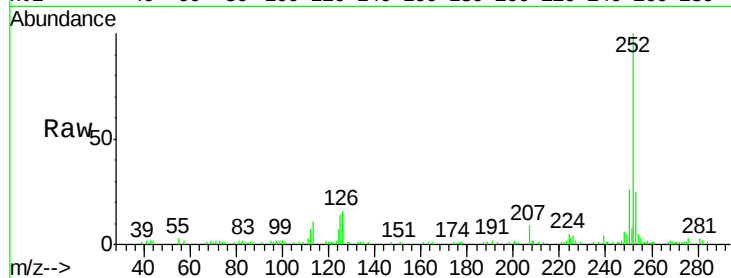
ClientSampleId :

SB-104(4-5)DL2

Tot Ion:	252	Resp:	62742
Ion Ratio	Lower	Upper	
252	100		
253	24.6	17.0	25.6
125	14.4	9.0	13.6

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 4.509 ng

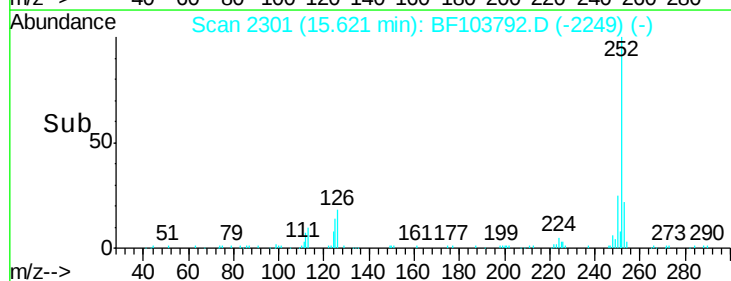
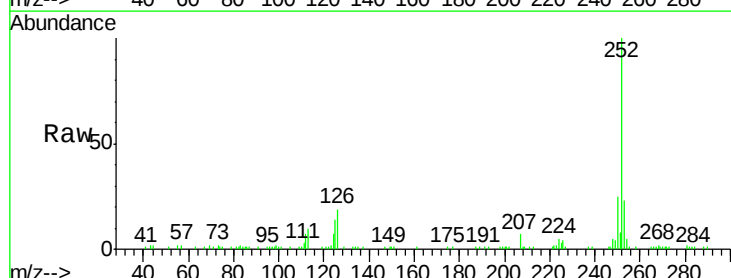
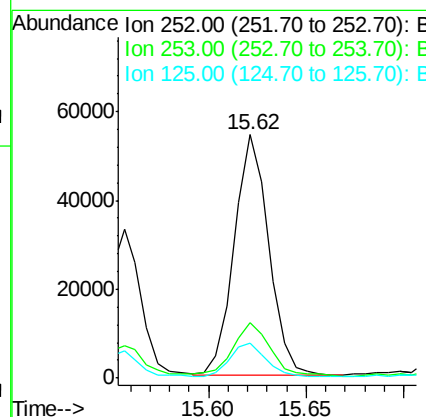
RT: 15.62 min Scan# 2301

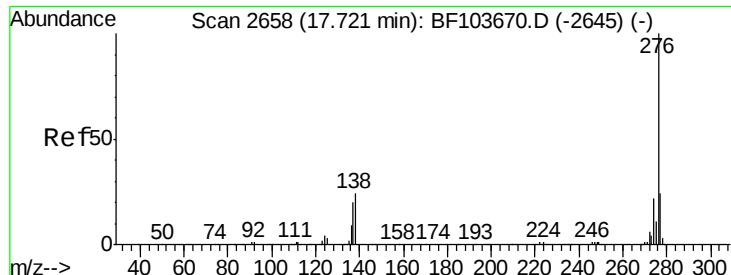
Delta R.T. 0.01 min

Lab File: BF103792.D

Acq: 20 Mar 2018 8:36

Tgt Ion:	252	Resp:	66494
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.1	25.7
125	14.2	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 2.397 ng
 RT: 17.73 min Scan# 2660
 Delta R.T. 0.01 min
 Lab File: BF103792.D
 Acq: 20 Mar 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL2

Tot Ion:	276	Resp:	29774
Ion Ratio	Lower	Upper	
276	100		
277	24.4	17.9	26.9
138	23.7	21.8	32.8

Manual Integrations
 APPROVED

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