

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
 Data File : BF101051.D
 Acq On : 1 Dec 2017 8:10
 Operator : SJ/JU
 Sample : I6610-16DL 2X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(8-10)-20171127DL

Manual Integrations
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Sohil
 12/1/2017 11:13:27 AM

Quant Time: Dec 01 10:28:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 09:47:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	56971	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	214177	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	87145	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	134540	20.00	ng	0.00
75) Chrysene-d12	14.02	240	119759	20.00	ng	0.00
86) Perylene-d12	15.50	264	86640	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	178089	51.65	ng	0.00
7) Phenol-d6	6.48	99	212804	50.84	ng	0.00
23) Nitrobenzene-d5	7.42	82	125490	34.95	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	42092	40.21	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	249717	39.21	ng	0.00
78) Terphenyl-d14	12.96	244	185565	33.89	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	34777	3.295	ng	97
37) 2-Methylnaphthalene	8.85	142	24267	3.383	ng	99
49) Dimethylphthalate	9.60	163	16058	2.285	ng	# 98
51) Acenaphthene	9.92	154	30226	5.417	ng	100
54) Dibenzofuran	10.09	168	26325	3.274	ng	97
57) Fluorene	10.44	166	40142	6.141	ng	98
70) Phenanthrene	11.40	178	317220	42.815	ng	99
71) Anthracene	11.46	178	89780	11.973	ng	95
72) Carbazole	11.61	167	21846	3.189	ng	96
74) Fluoranthene	12.60	202	378557	46.093	ng	93
77) Pyrene	12.83	202	326596	39.522	ng	98
80) Benzo(a)anthracene	14.02	228	173250	22.912	ng	97
82) Chrysene	14.05	228	151527	21.578	ng	96
83) Bis(2-ethylhexyl)phthalate	13.98	149	15684	3.019	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.97	276	51285	8.214	ng	# 90
87) Benzo(b)fluoranthene	15.07	252	135834m	26.175	ng	
88) Benzo(k)fluoranthene	15.09	252	53774m	10.517	ng	
89) Benzo(a)pyrene	15.43	252	97869m	20.744	ng	
90) Dibenzo(a,h)anthracene	16.98	278	12258m	2.947	ng	
91) Benzo(a,h,i)perylene	17.43	276	47786	12.191	ng	# 91

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

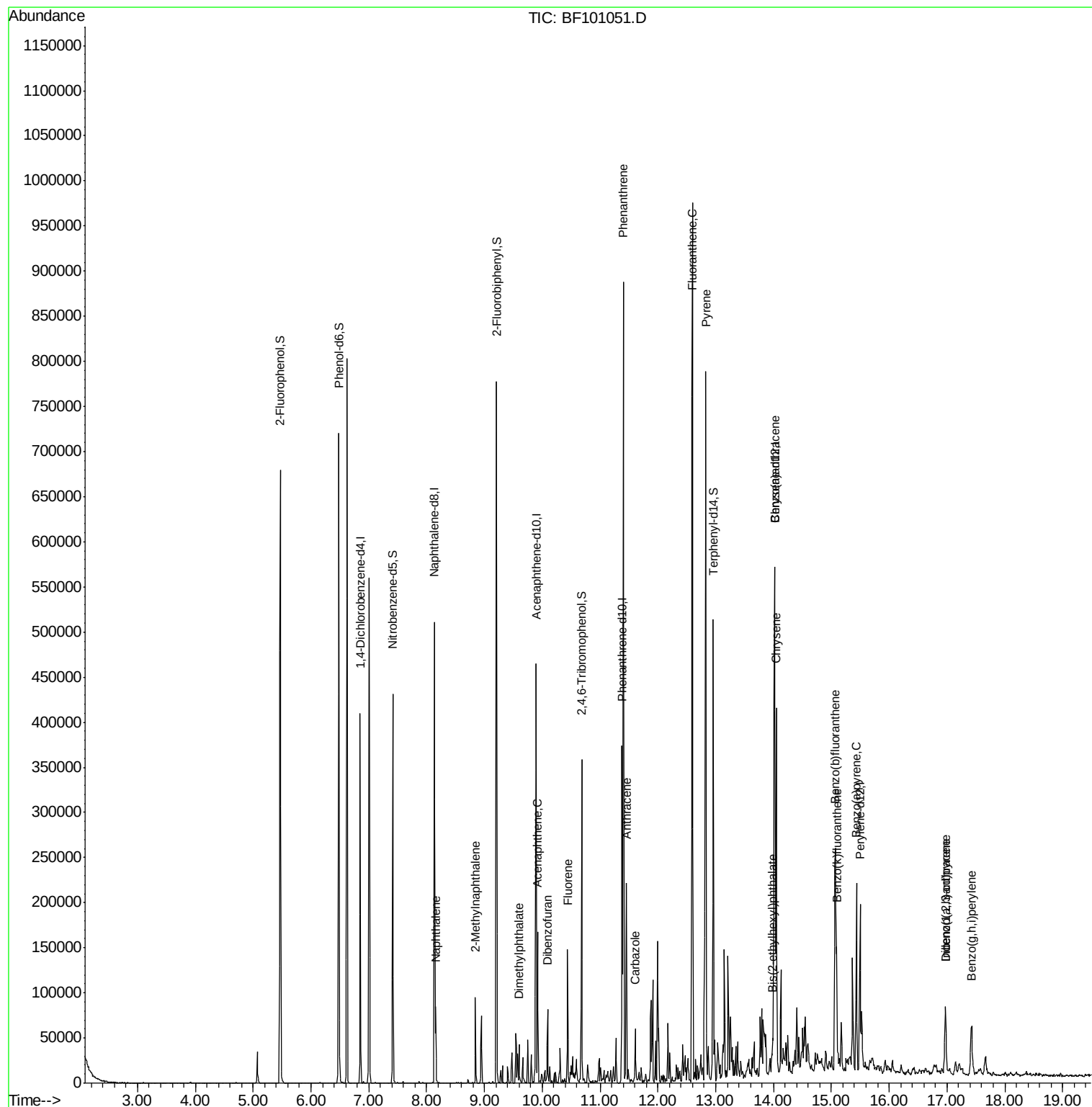
Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
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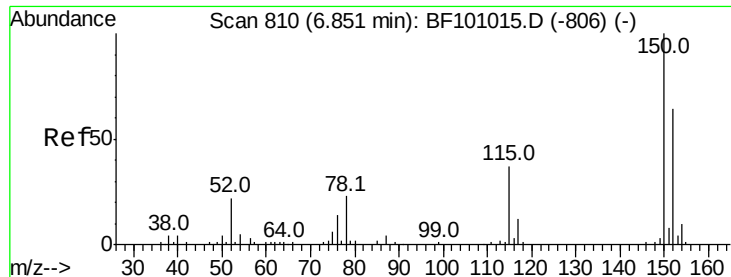
Instrument :
BNA_F
ClientSampleId :
SB-10(8-10)-20171127DL

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Quant Time: Dec 01 10:28:09 2017
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#1

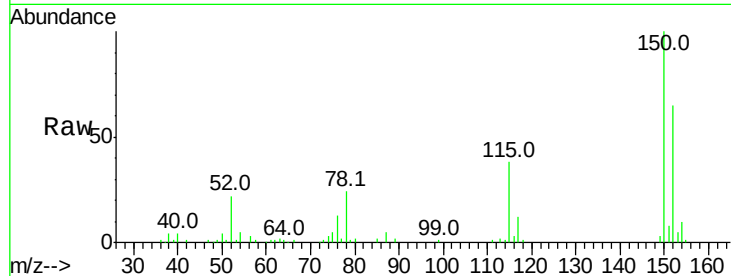
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Instrument :
BNA_F
ClientSampleId :
SB-10(8-10)-20171127DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.6	186.8
115	58.9	50.1	75.1

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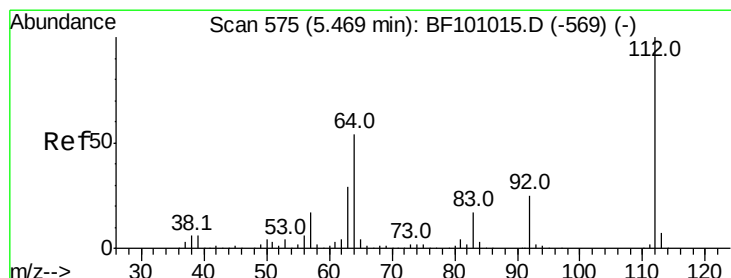
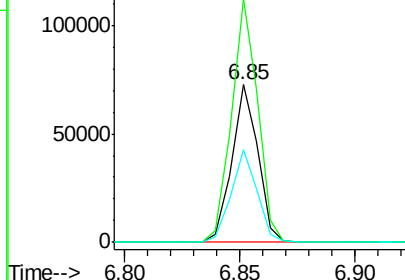
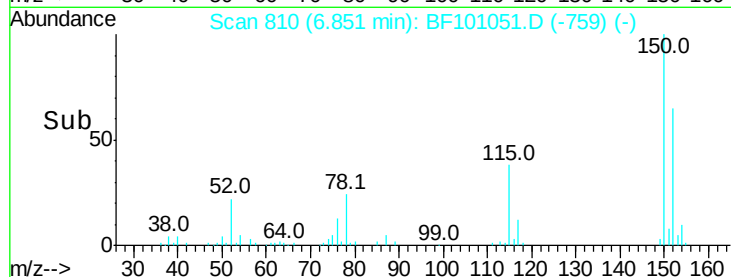


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

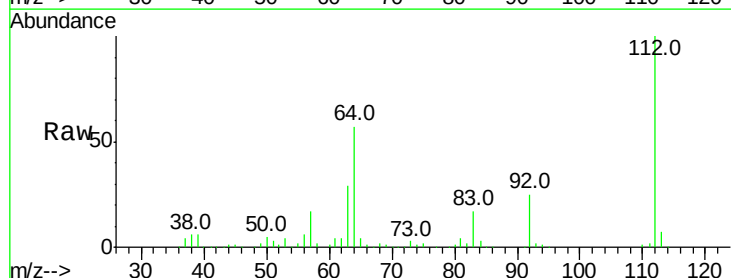
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 51.655 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.00 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.0	47.9	71.9
63	28.7	23.7	35.5

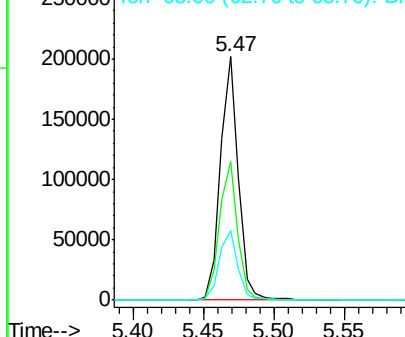
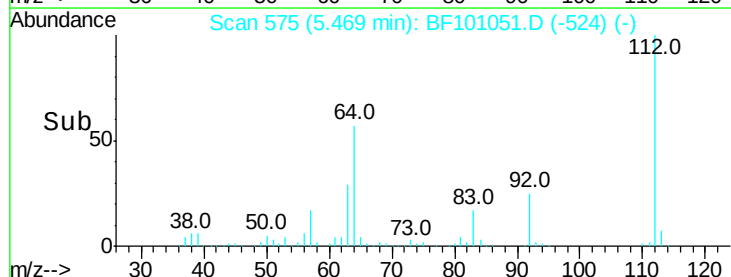


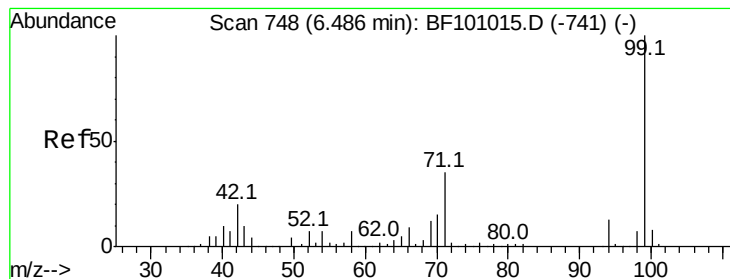
Abundance

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: 50.839 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Instrument :

BNA_F

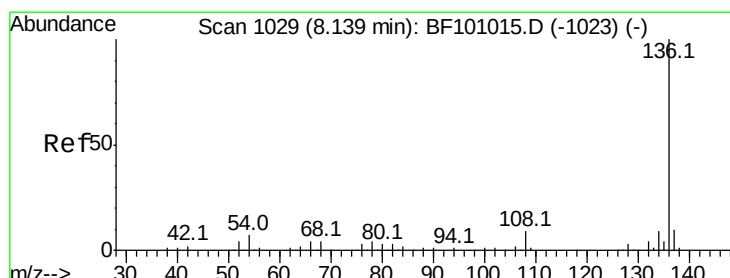
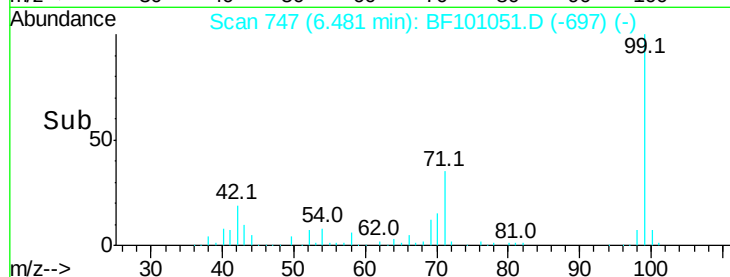
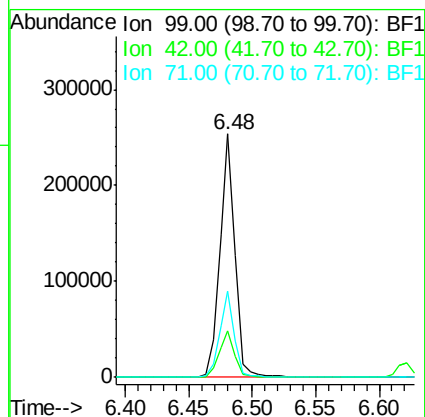
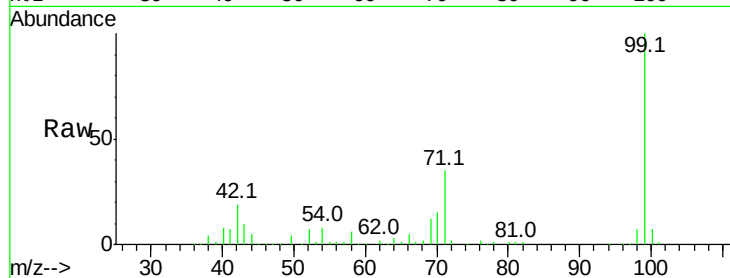
ClientSampleId :

SB-10(8-10)-20171127DL

Tot Ion:	99	Resp:	212804
Ion Ratio	Lower	Upper	
99	100		
42	19.0	14.5	21.7
71	35.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

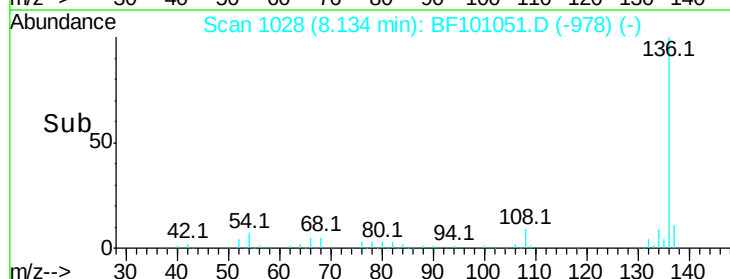
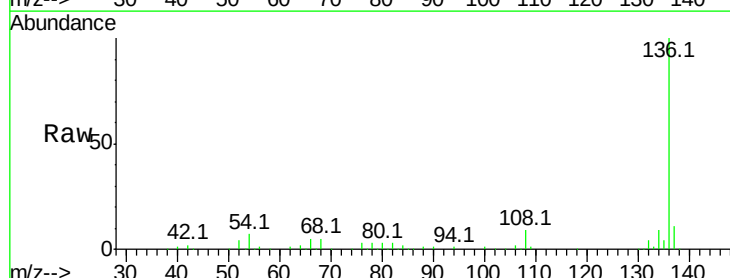
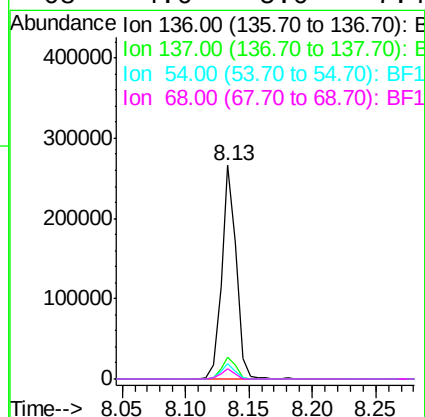
RT: 8.13 min Scan# 1028

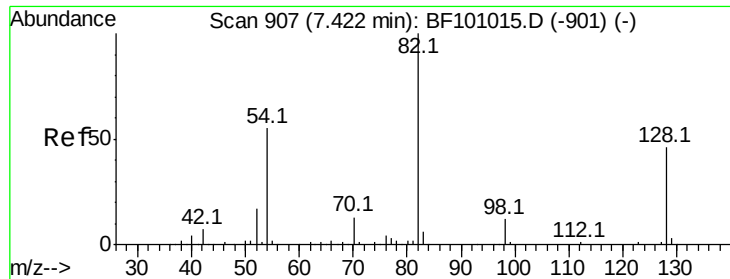
Delta R.T. -0.01 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Tgt Ion:	136	Resp:	214177
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.9	13.3
54	7.4	6.6	9.8
68	4.6	5.0	7.4#





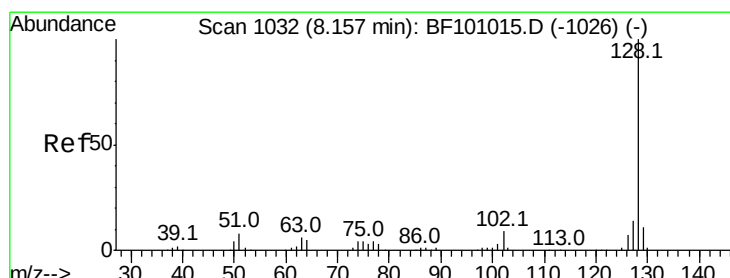
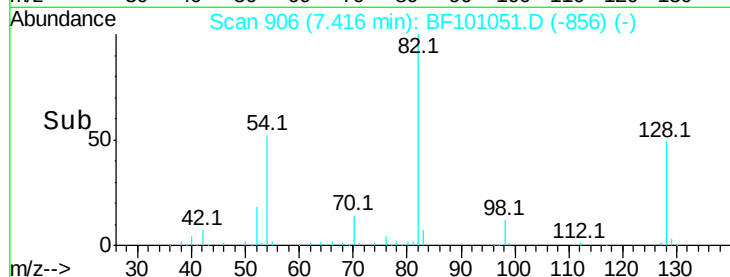
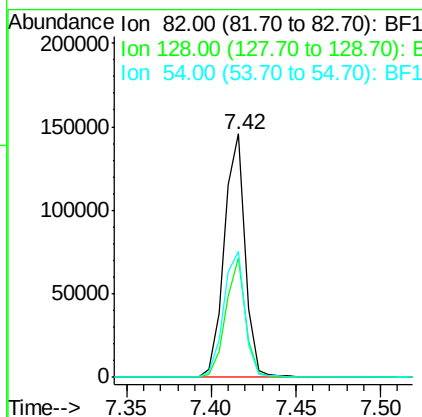
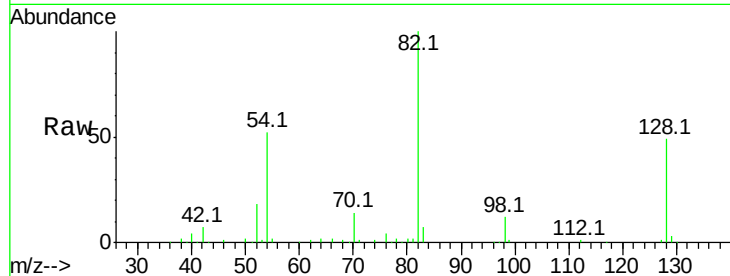
#23
Nitrobenzene-d5
Concen: 34.952 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Instrument :
BNA_F
ClientSampleId :
SB-10(8-10)-20171127DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.8	36.1	54.1	
54	51.7	41.4	62.2	

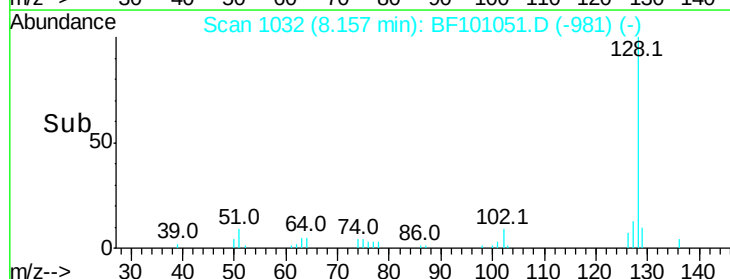
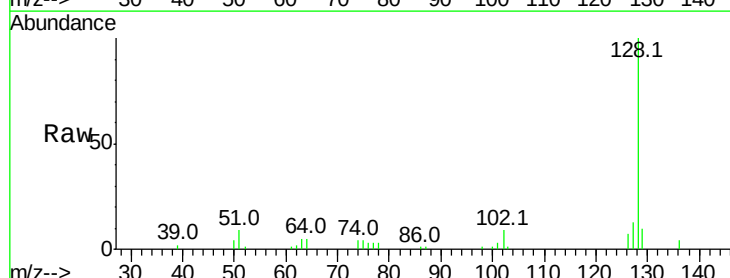
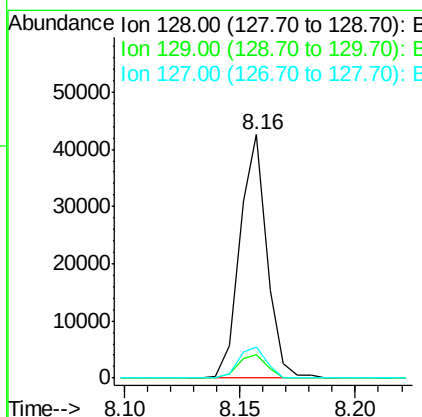
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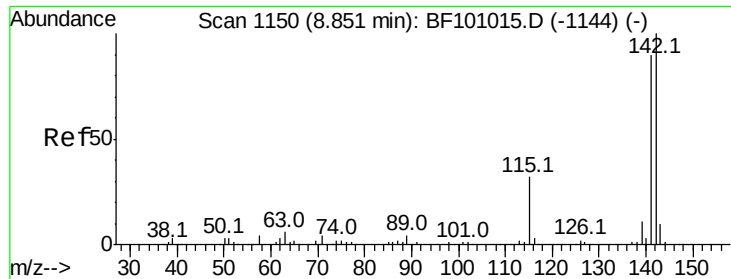
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#31
Naphthalene
Concen: 3.295 ng
RT: 8.16 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	9.9	8.8	13.2	
127	12.7	10.9	16.3	





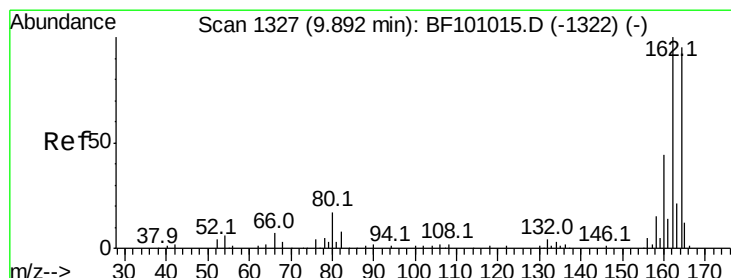
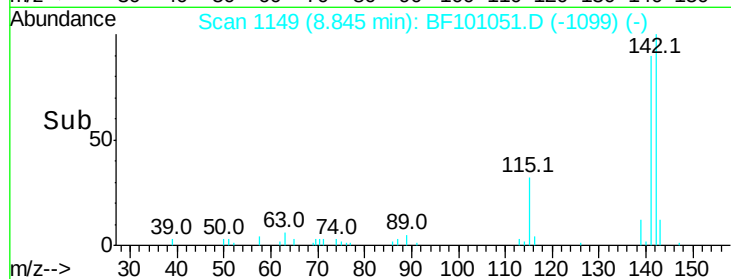
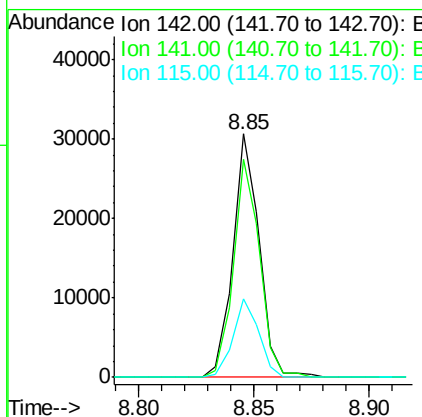
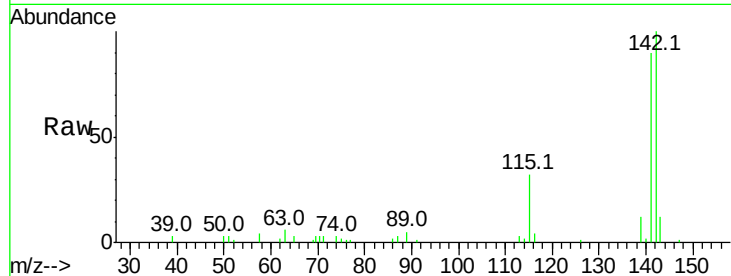
#37
2-Methylnaphthalene
Concen: 3.383 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Instrument :
BNA_F
ClientSampleId :
SB-10(8-10)-20171127DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.8	106.2
115	32.1	26.1	39.1

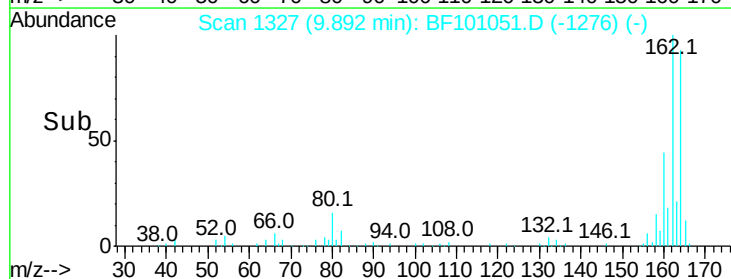
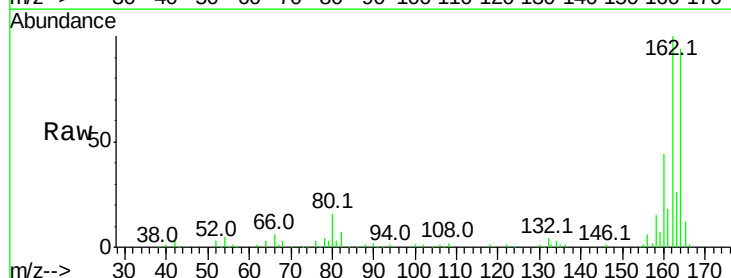
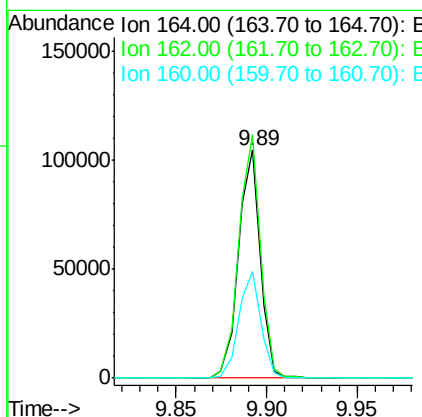
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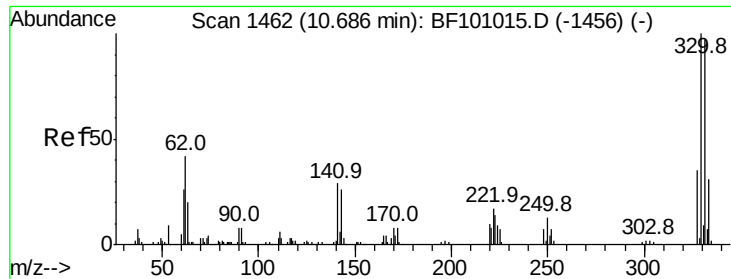
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.00 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.7	86.1	129.1
160	46.5	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 40.208 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Instrument :

BNA_F

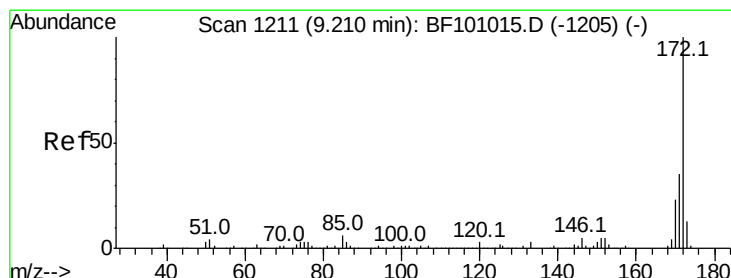
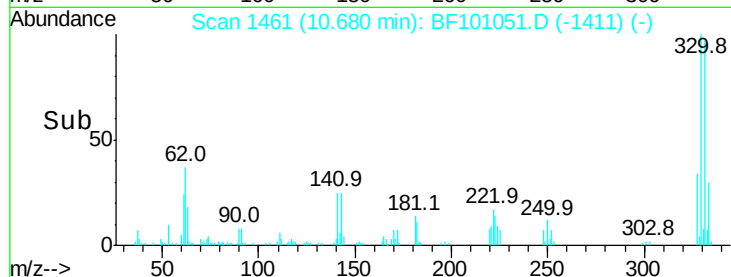
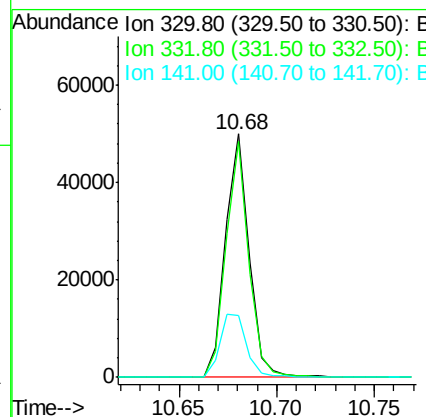
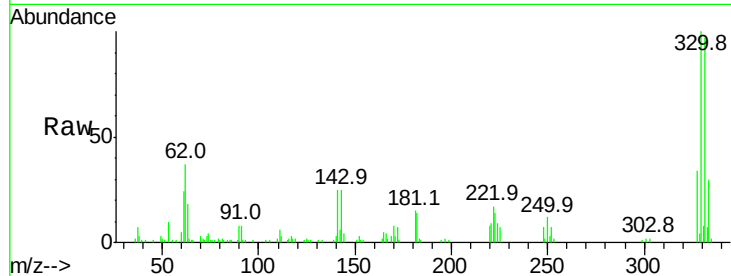
ClientSampleId :

SB-10(8-10)-20171127DL

Tot Ion:	330	Resp:	42092
Ion Ratio	Lower	Upper	
330	100		
332	93.3	77.0	115.6
141	29.2	29.9	44.9#

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#44

2-Fluorobiphenyl

Concen: 39.206 ng

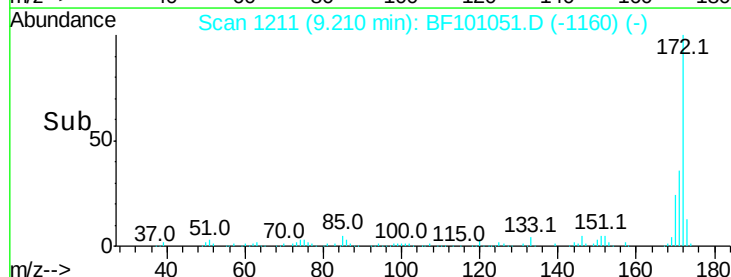
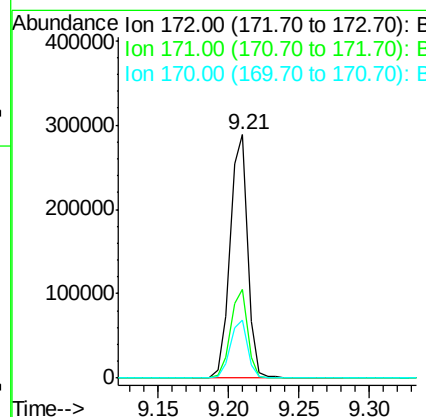
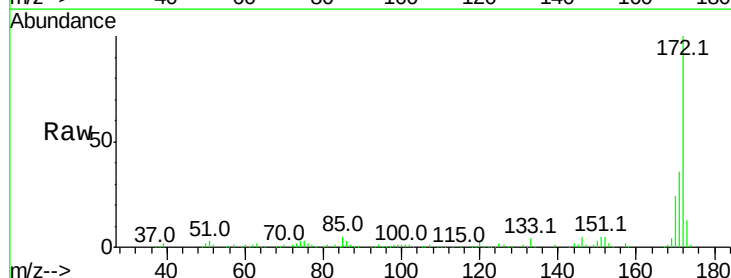
RT: 9.21 min Scan# 1211

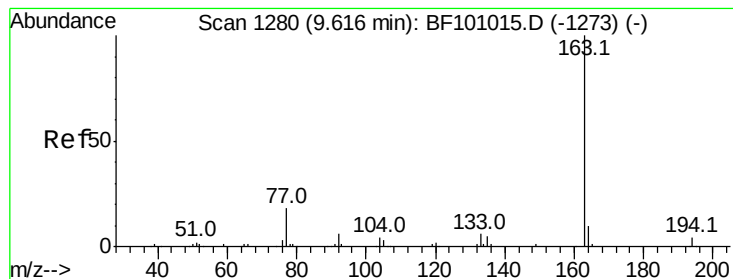
Delta R.T. 0.00 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Tgt Ion:	172	Resp:	249717
Ion Ratio	Lower	Upper	
172	100		
171	36.3	29.7	44.5
170	23.9	19.6	29.4





#49

Dimethylphthalate

Concen: 2.285 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Instrument :

BNA_F

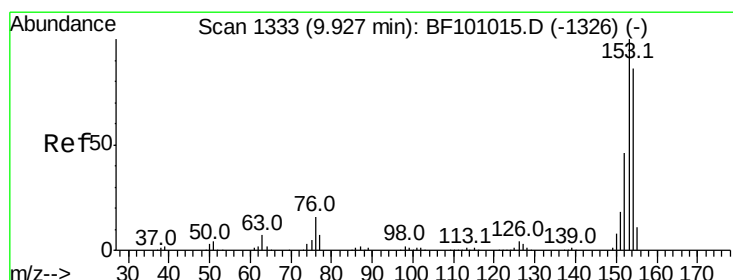
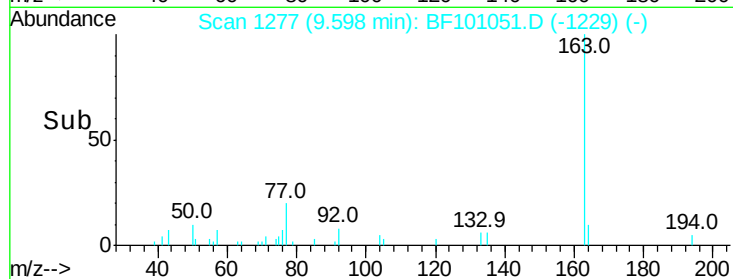
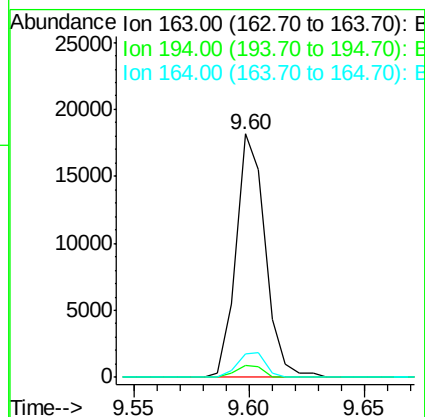
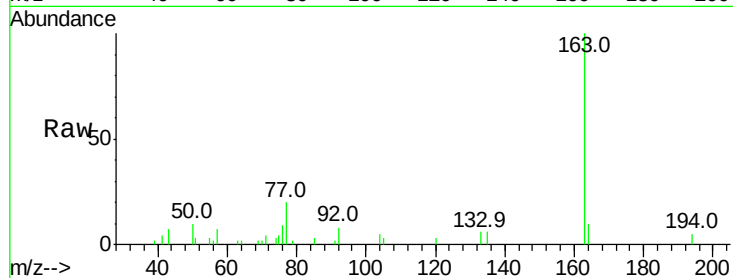
ClientSampleId :

SB-10(8-10)-20171127DL

Tot Ion:	163	Resp:	16058
Ion Ratio	Lower	Upper	
163	100		
194	5.2	2.7	4.1#
164	9.7	8.2	12.2

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#51

Acenaphthene

Concen: 5.417 ng

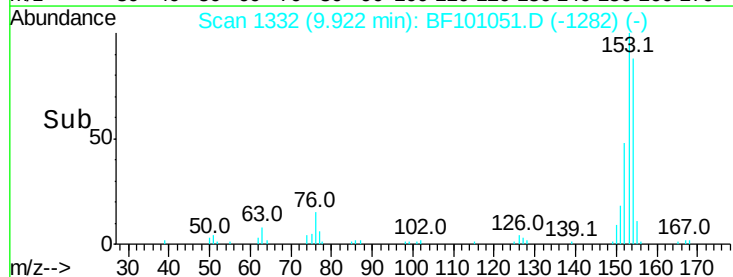
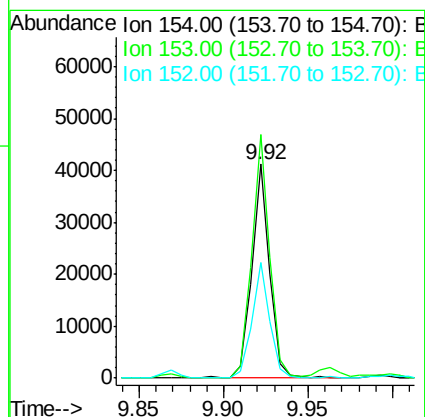
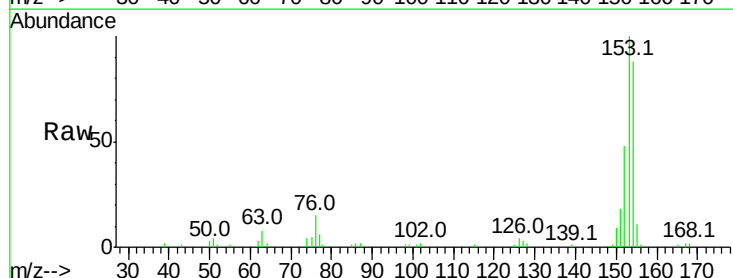
RT: 9.92 min Scan# 1332

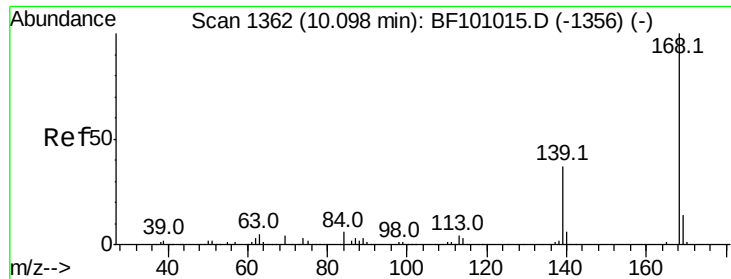
Delta R.T. -0.01 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Tgt Ion:	154	Resp:	30226
Ion Ratio	Lower	Upper	
154	100		
153	113.9	91.2	136.8
152	54.4	43.8	65.8





#54

Dibenzenofuran

Concen: 3.274 ng

RT: 10.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Instrument :

BNA_F

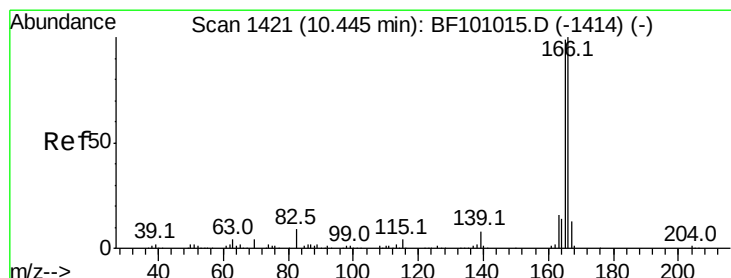
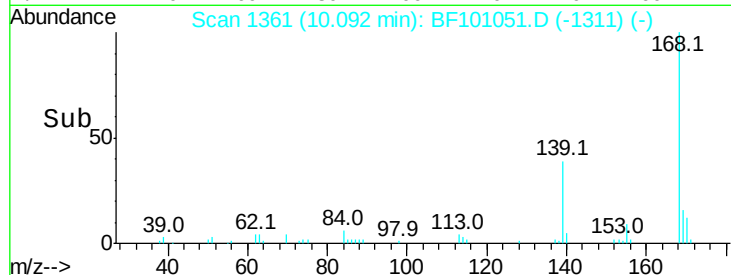
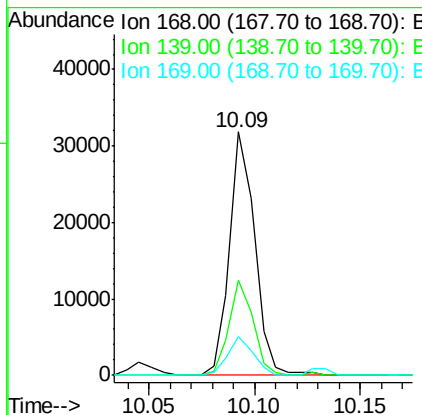
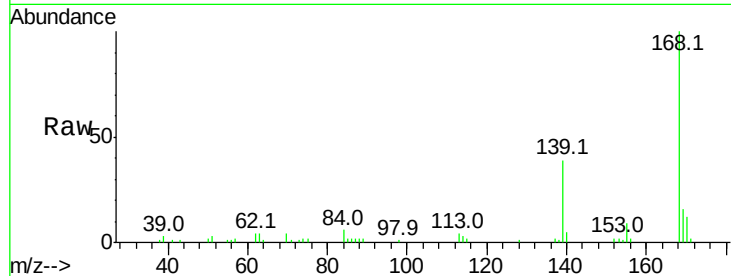
ClientSampleId :

SB-10(8-10)-20171127DL

Tot Ion:	168	Resp:	26325
Ion Ratio	Lower	Upper	
168	100		
139	38.9	30.1	45.1
169	15.7	10.9	16.3

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#57

Fluorene

Concen: 6.141 ng

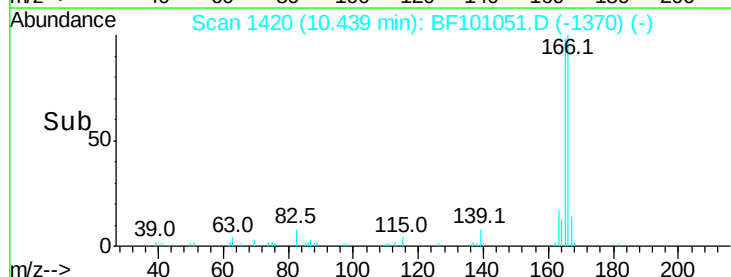
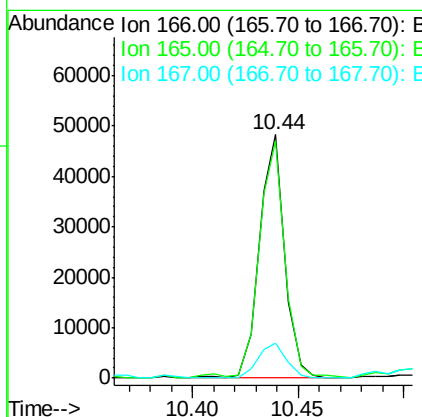
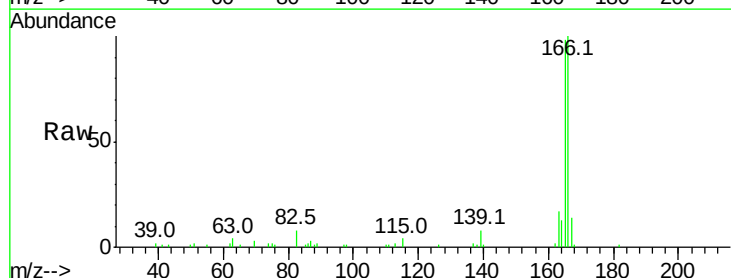
RT: 10.44 min Scan# 1420

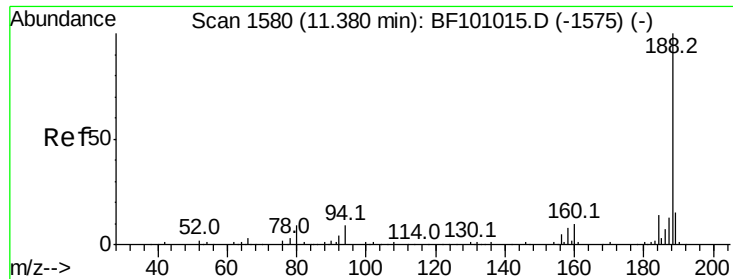
Delta R.T. -0.01 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Tgt Ion:	166	Resp:	40142
Ion Ratio	Lower	Upper	
166	100		
165	97.6	79.8	119.8
167	14.3	10.6	16.0





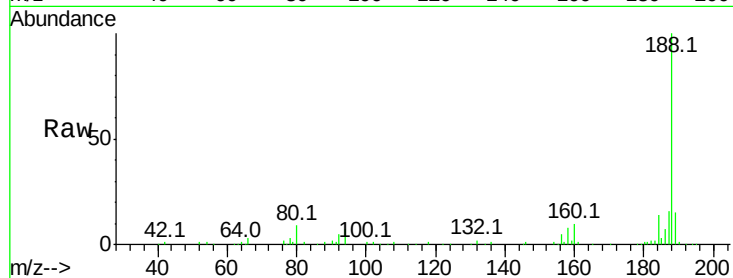
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Instrument :
BNA_F
ClientSampleId :
SB-10(8-10)-20171127DL

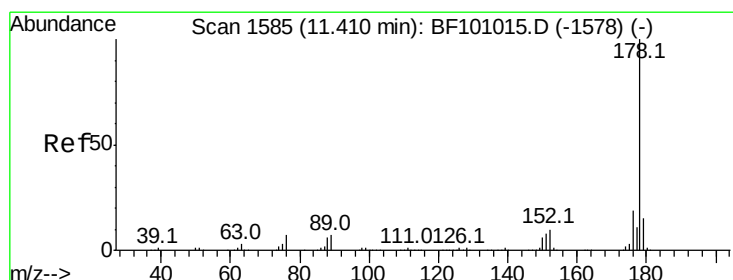
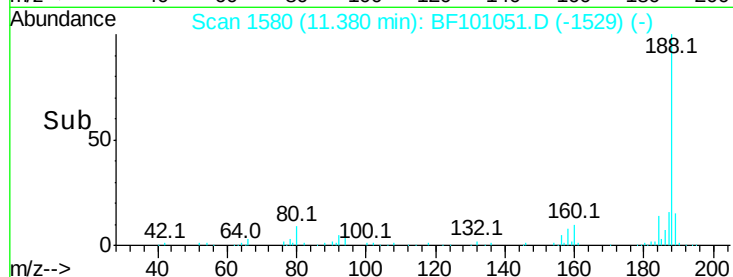
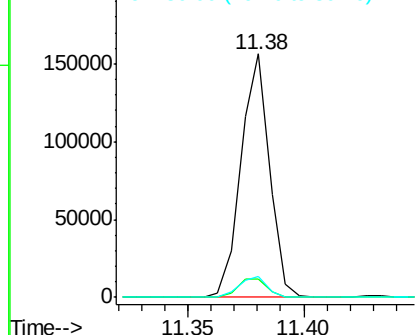
Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.4	8.5	12.7#
80	8.6	9.2	13.8#

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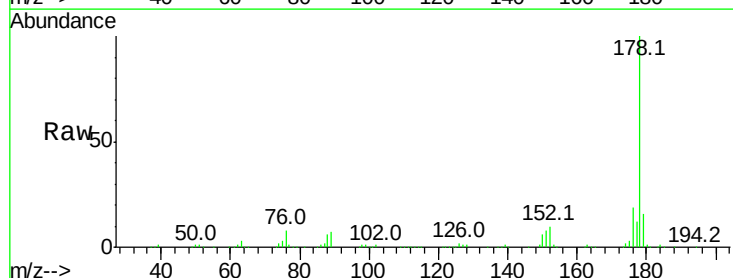


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

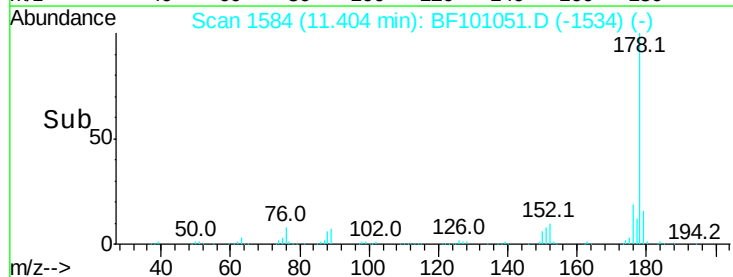
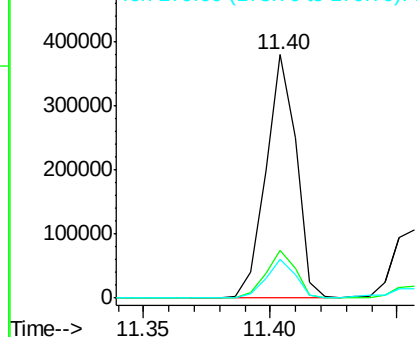


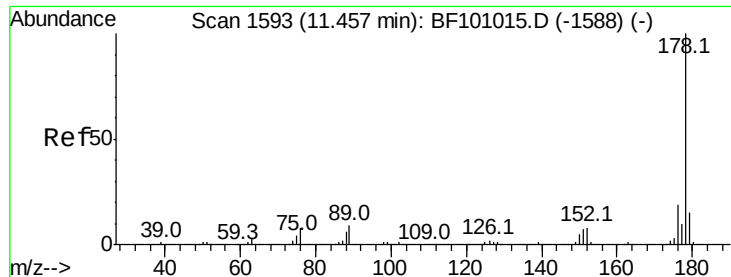
#70
Phenanthrene
Concen: 42.815 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.7	13.0	19.6



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





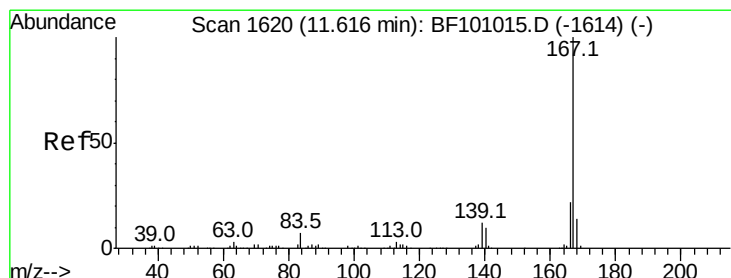
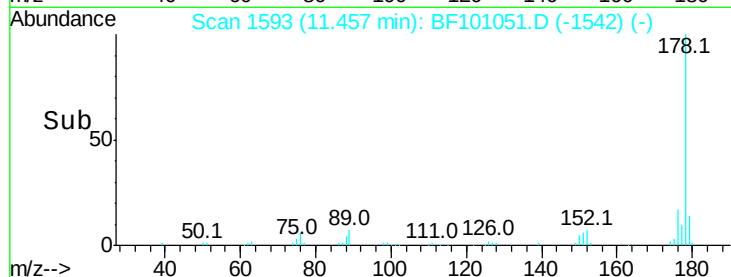
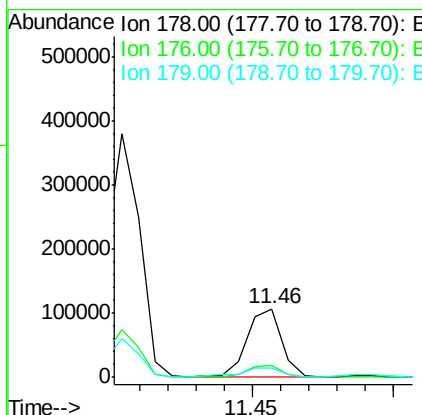
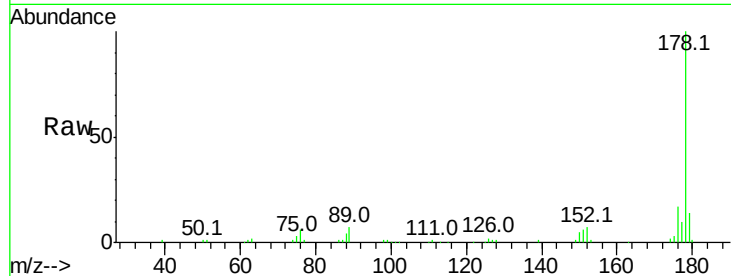
#71
 Anthracene
 Concen: 11.973 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. 0.00 min
 Lab File: BF101051.D
 Acq: 1 Dec 2017 8:10

Instrument :
 BNA_F
 ClientSampleID :
 SB-10(8-10)-20171127DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.2	15.4	23.2
179	13.5	12.6	19.0

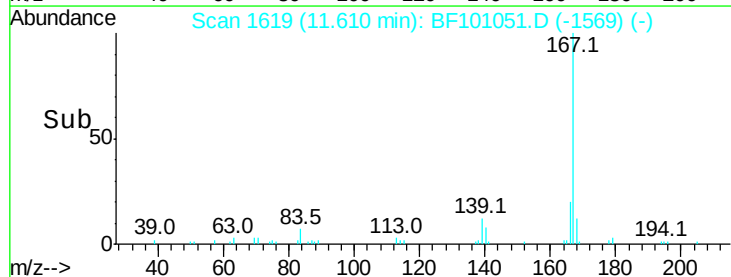
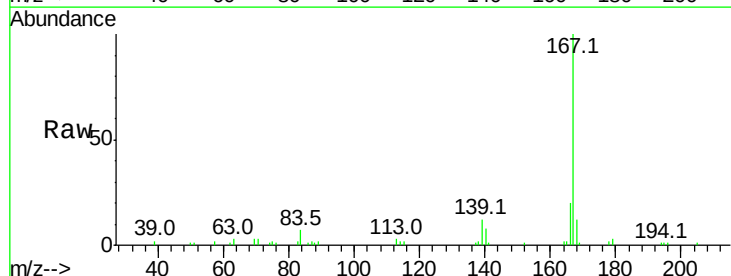
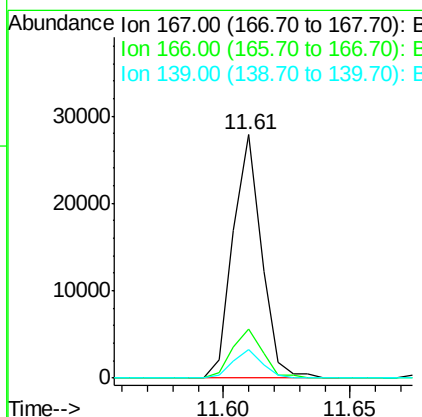
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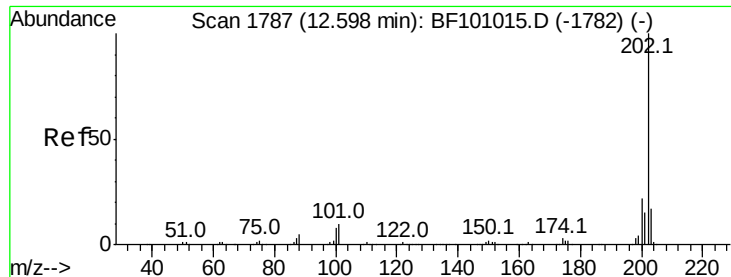
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#72
 Carbazole
 Concen: 3.189 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BF101051.D
 Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.1	17.6	26.4
139	11.5	10.9	16.3





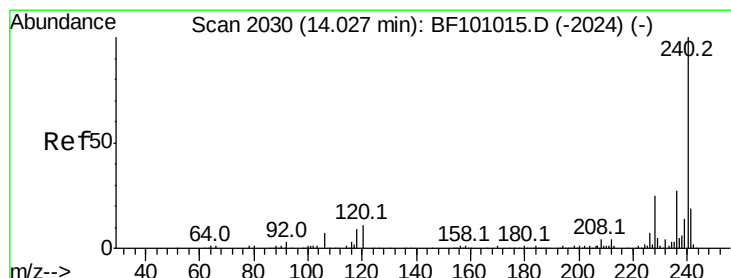
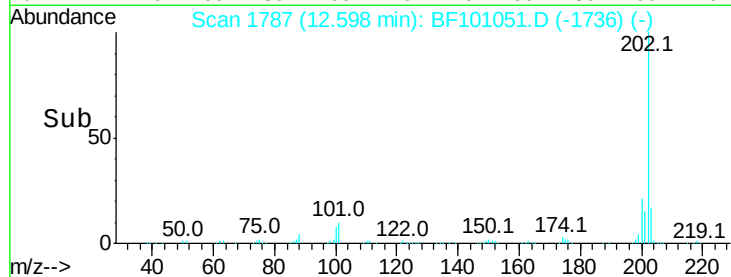
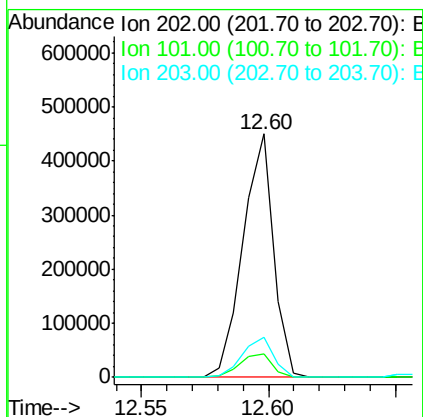
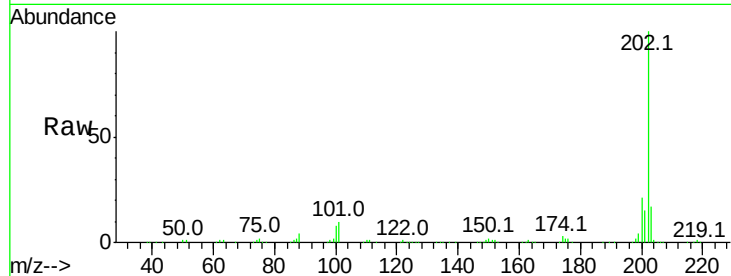
#74
 Fluoranthene
 Concen: 46.093 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. 0.00 min
 Lab File: BF101051.D
 Acq: 1 Dec 2017 8:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(8-10)-20171127DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	9.7	0.0	34.1
203	16.7	0.0	38.1

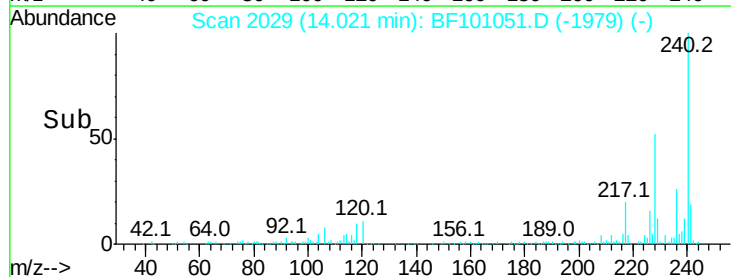
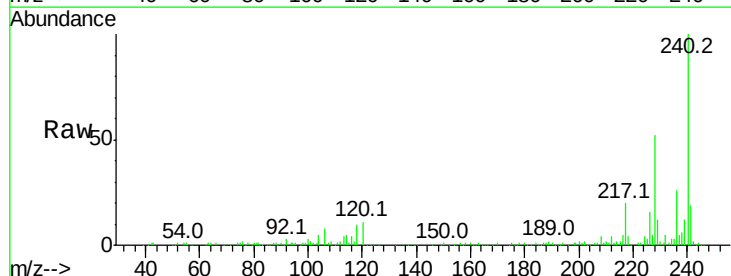
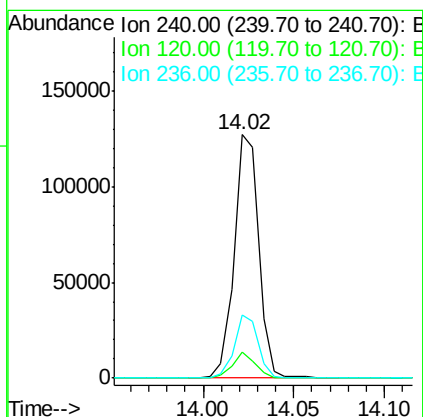
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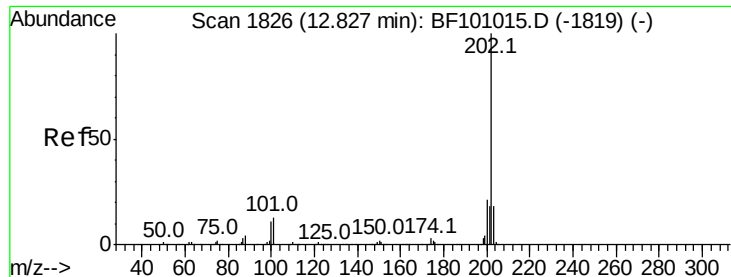
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#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BF101051.D
 Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.7	9.5	14.3
236	26.1	20.7	31.1





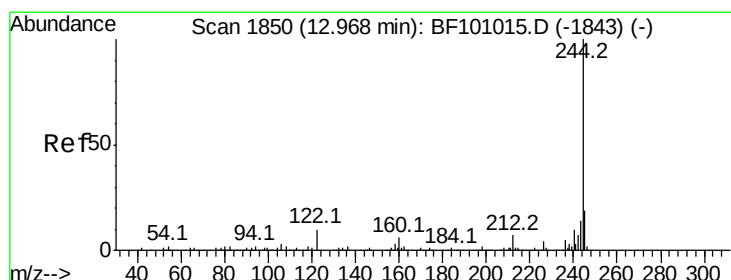
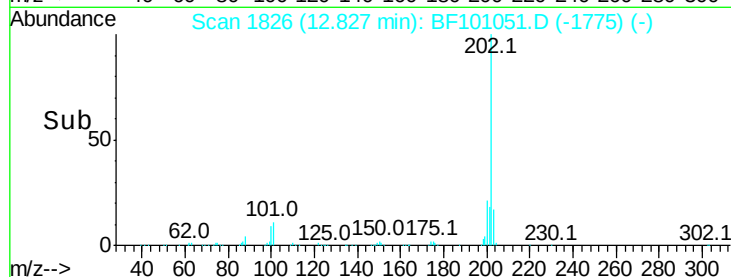
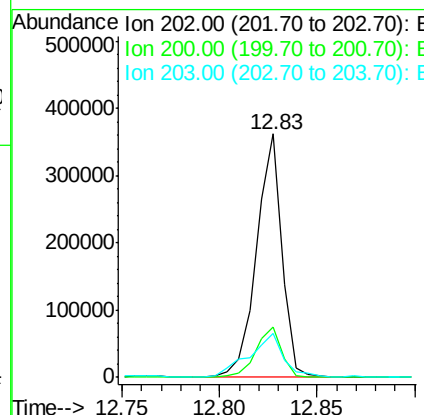
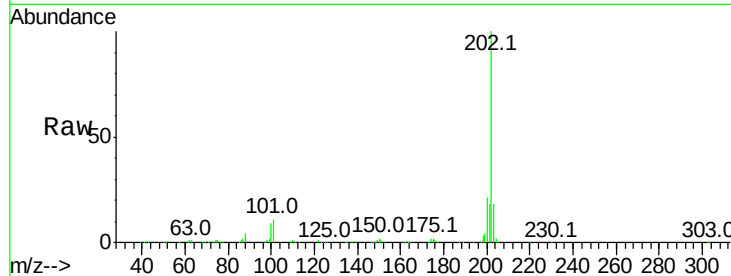
#77
Pvrene
Concen: 39.522 ng
RT: 12.83 min Scan# 1826
Delta R.T. 0.00 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Instrument :
BNA_F
ClientSampleId :
SB-10(8-10)-20171127DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.6	17.4	26.2
203	17.8	14.3	21.5

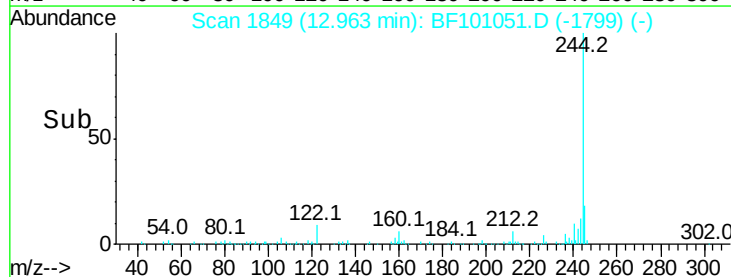
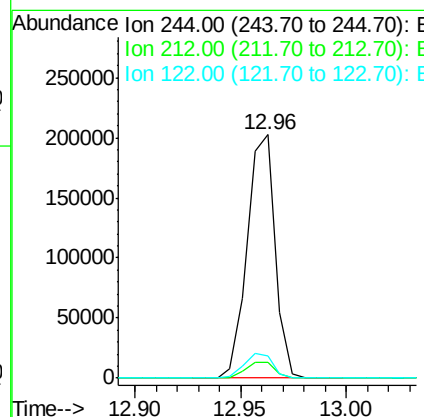
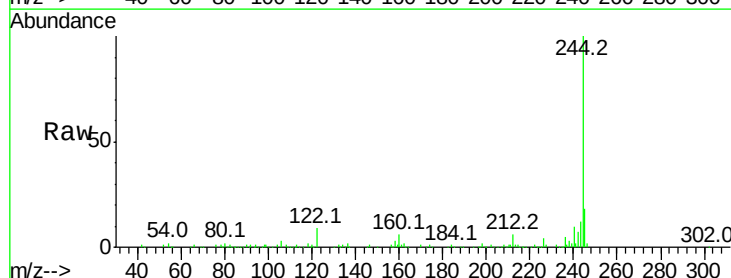
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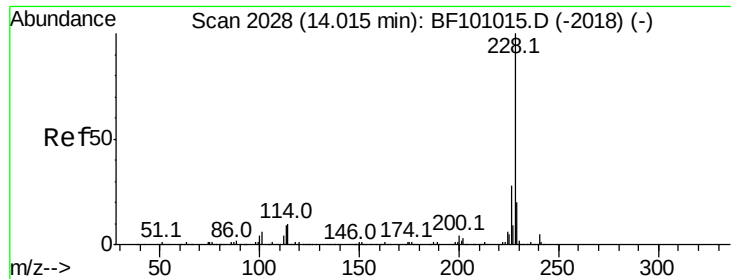
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#78
Terphenyl-d14
Concen: 33.891 ng
RT: 12.96 min Scan# 1849
Delta R.T. -0.01 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.3	5.4	8.0
122	9.0	11.0	16.4#





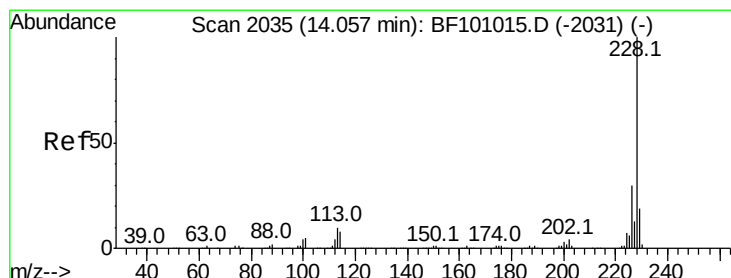
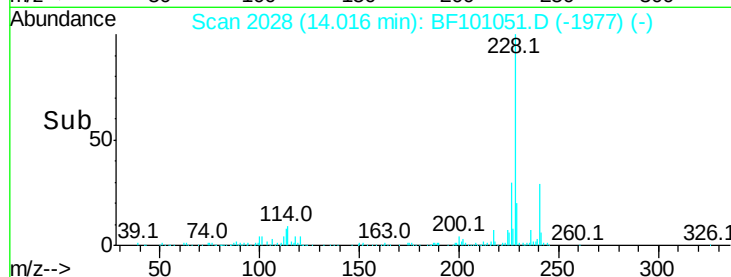
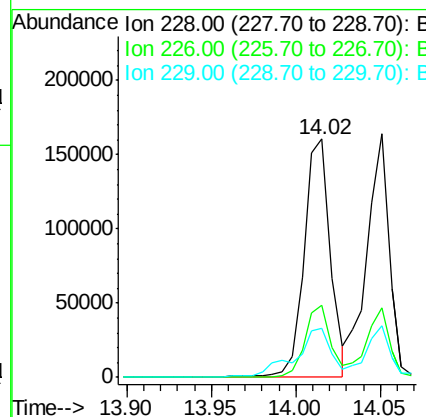
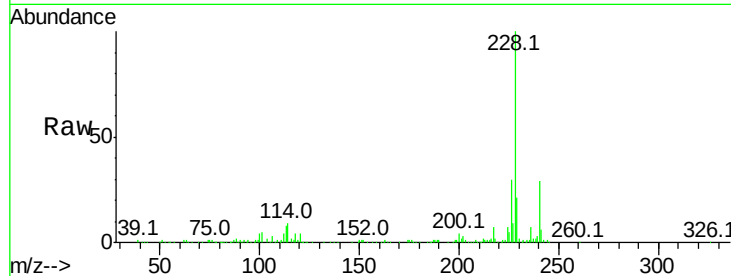
#80
Benzo(a)anthracene
Concen: 22.912 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Instrument :
BNA_F
ClientSampleId :
SB-10(8-10)-20171127DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.6	33.8
229	20.7	15.8	23.6

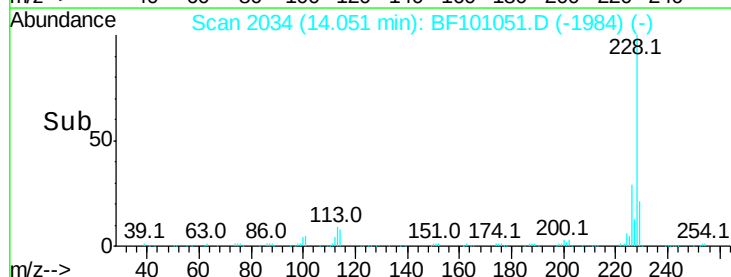
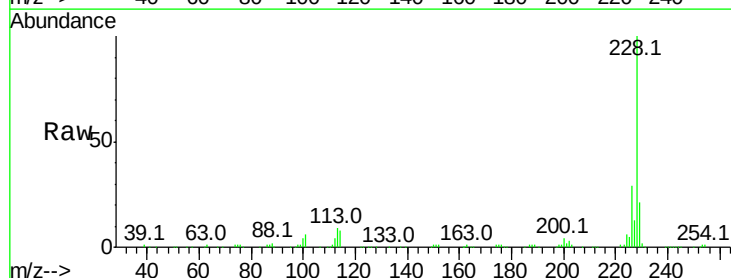
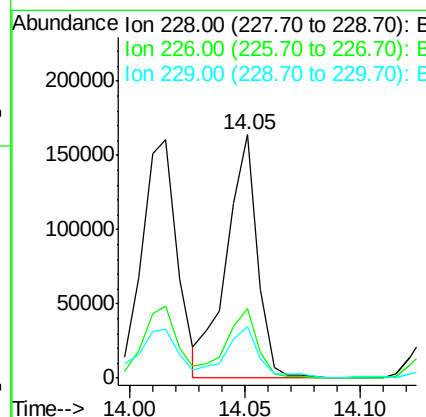
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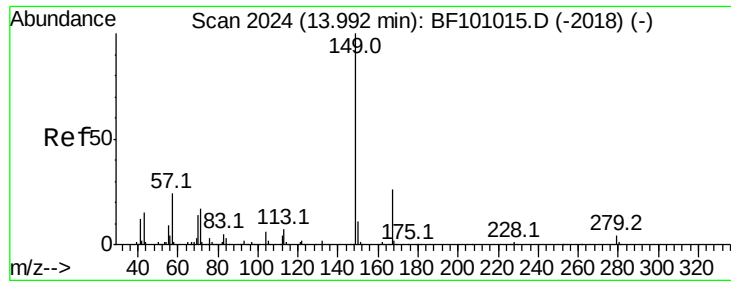
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#82
Chrysene
Concen: 21.578 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	25.0	37.6
229	21.4	16.2	24.4





#83

Bis(2-ethylhexyl)phthalate

Concen: 3.019 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Instrument :

BNA_F

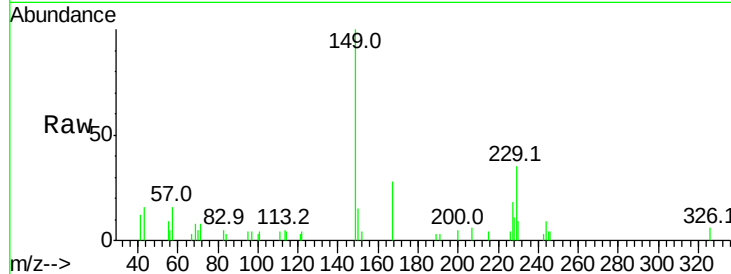
ClientSampleId :

SB-10(8-10)-20171127DL

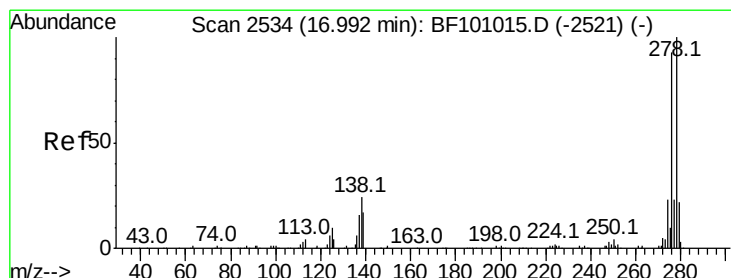
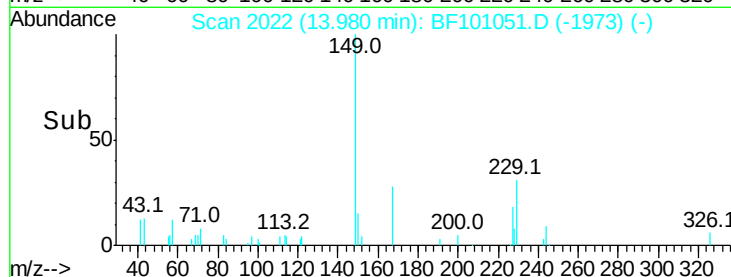
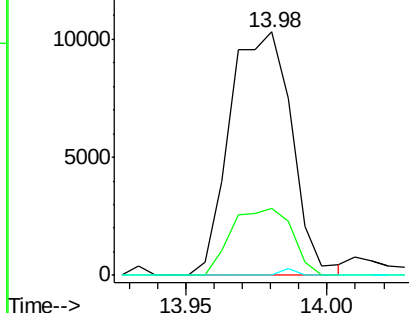
Tot Ion:	149	Resp:	15684
Ion Ratio	Lower	Upper	
149	100		
167	27.6	21.3	31.9
279	0.0	3.0	4.4#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.214 ng

RT: 16.97 min Scan# 2531

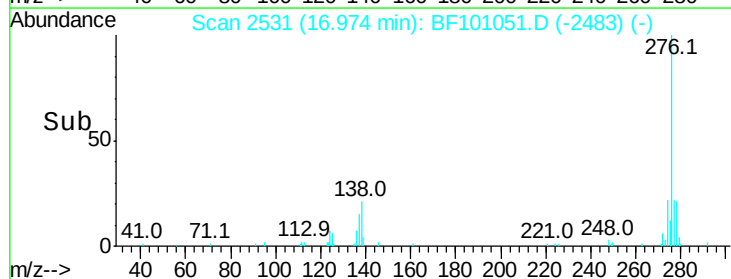
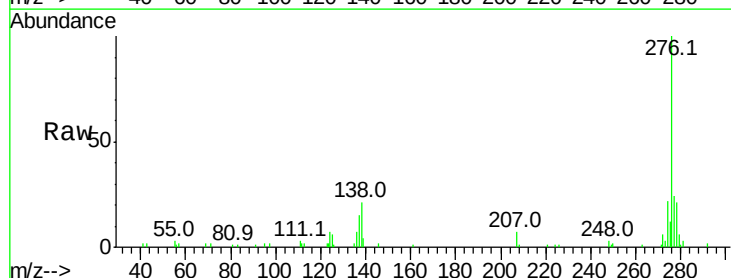
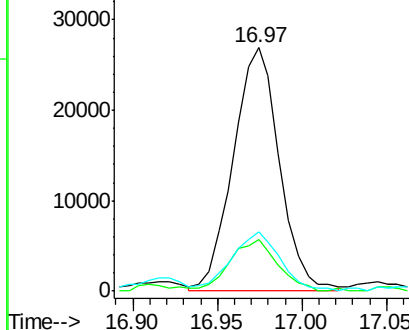
Delta R.T. -0.02 min

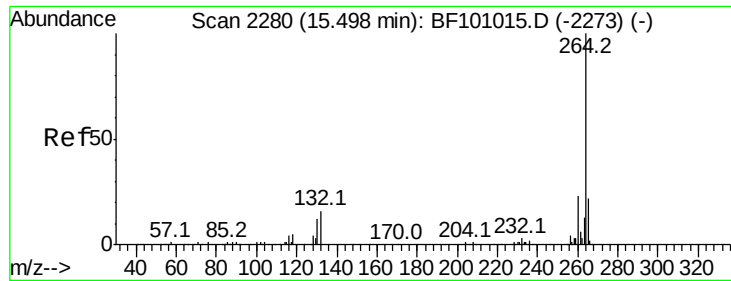
Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Tgt Ion:	276	Resp:	51285
Ion Ratio	Lower	Upper	
276	100		
138	21.8	25.0	37.6#
277	25.6	20.1	30.1

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. 0.00 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Instrument :

BNA_F

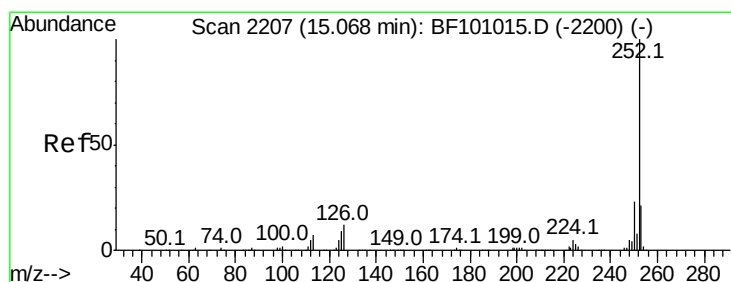
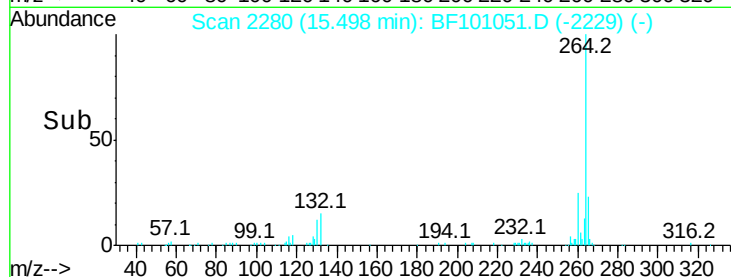
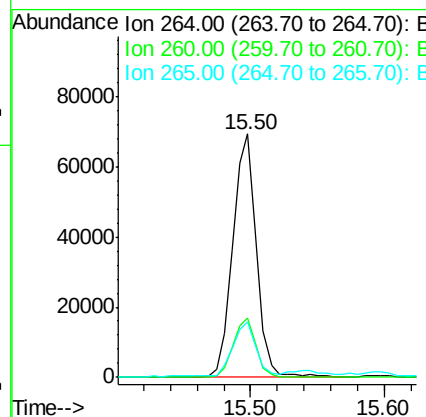
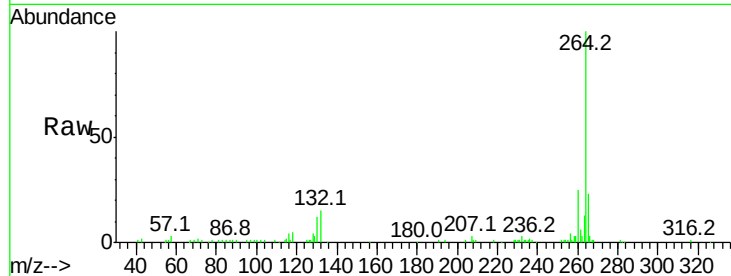
ClientSampleId :

SB-10(8-10)-20171127DL

Tot Ion:	264	Resp:	86640
Ion Ratio	Lower	Upper	
264	100		
260	24.5	19.2	28.8
265	22.8	17.5	26.3

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#87

Benzo(b)fluoranthene

Concen: 26.175 ng m

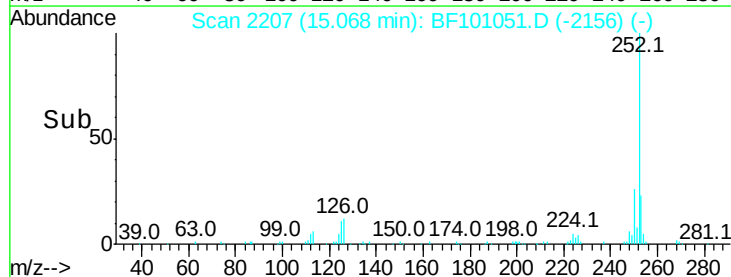
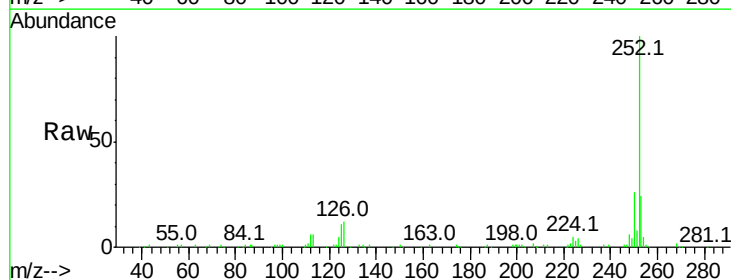
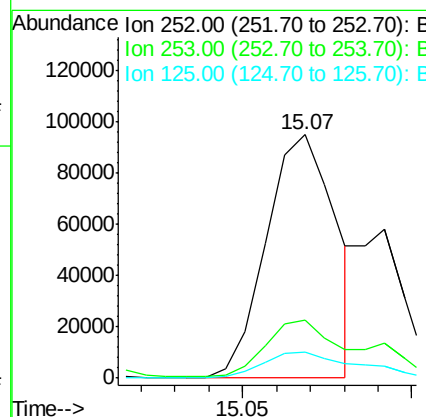
RT: 15.07 min Scan# 2207

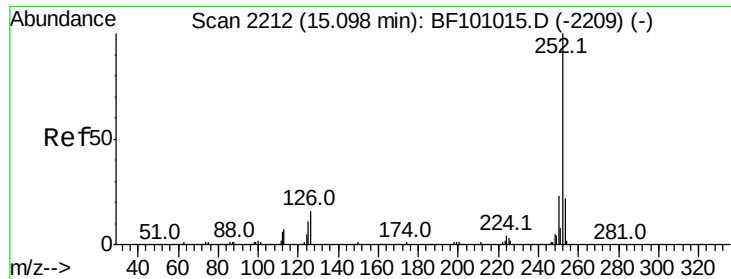
Delta R.T. 0.00 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Tgt Ion:	252	Resp:	135834
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.0	25.6
125	10.5	9.0	13.6





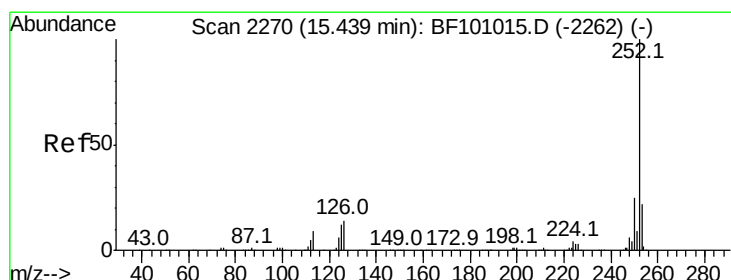
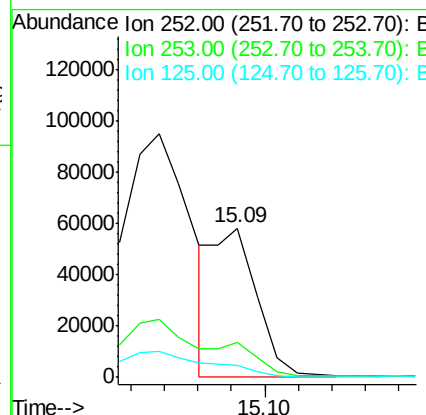
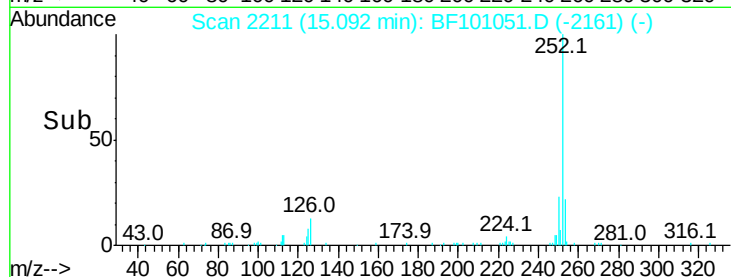
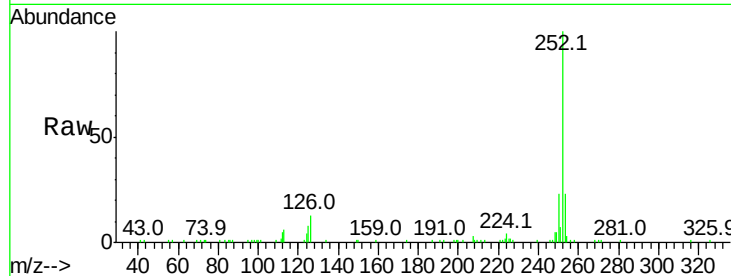
#88
Benzo(k)fluoranthene
Concen: 10.517 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.01 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Instrument :
BNA_F
ClientSampleId :
SB-10(8-10)-20171127DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	8.0	10.2	15.2

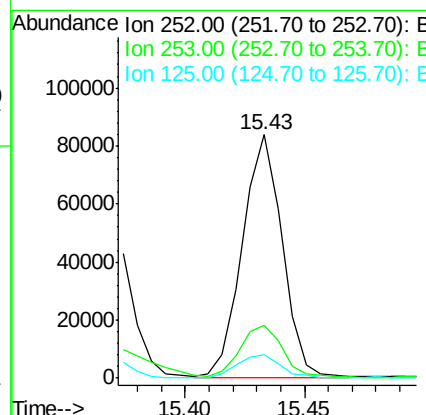
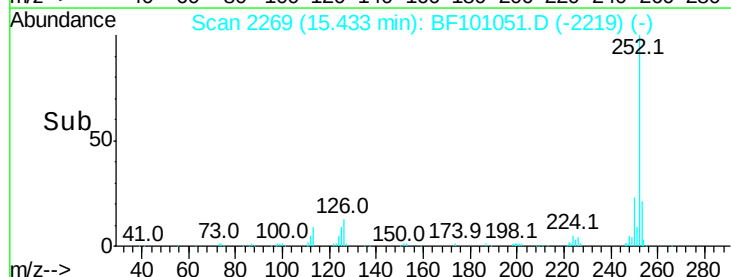
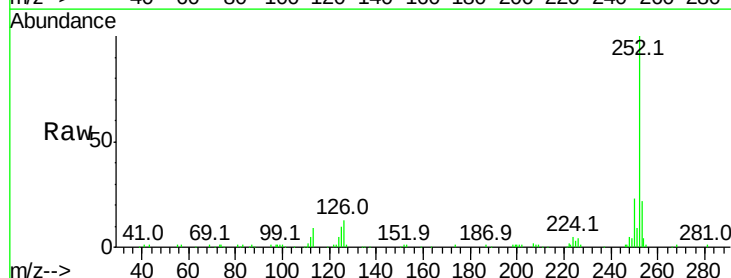
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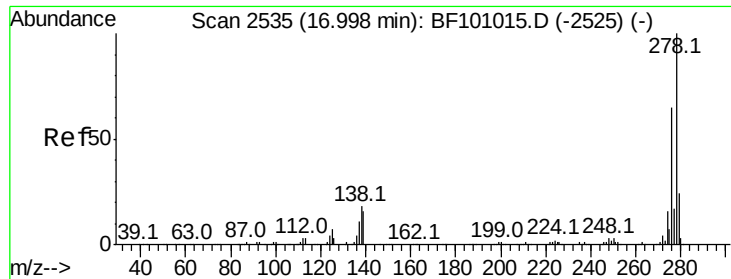
Sohil
12/1/2017 11:13:27 AM



#89
Benzo(a)pyrene
Concen: 20.744 ng m
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF101051.D
Acq: 1 Dec 2017 8:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	9.5	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.947 ng/mL

RT: 16.98 min Scan# 2532

Delta R.T. -0.02 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Instrument :

BNA_F

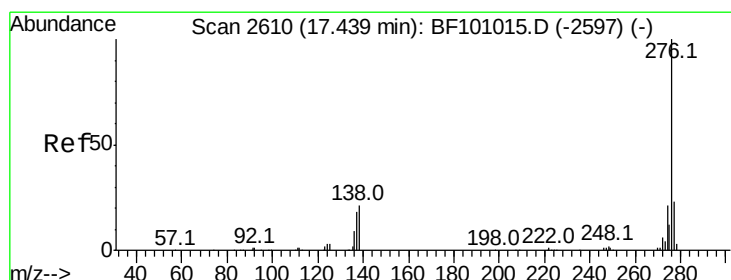
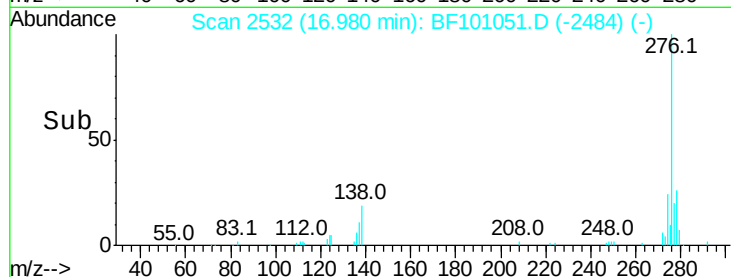
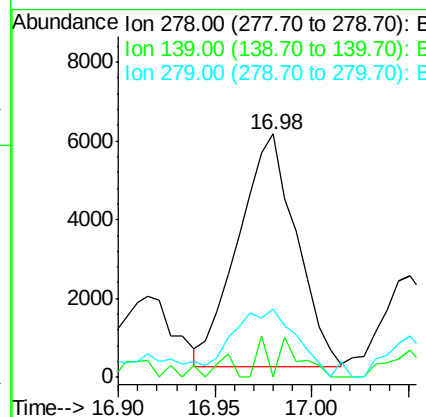
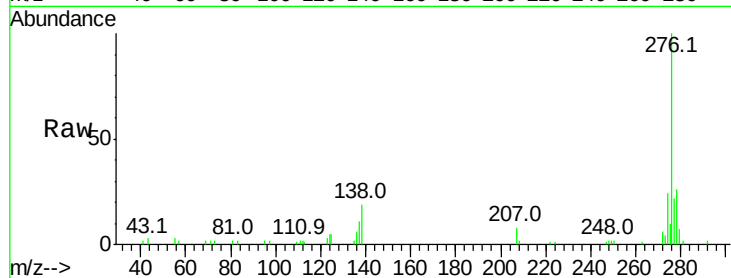
ClientSampleId :

SB-10(8-10)-20171127DL

Tot Ion:	278	Resp:	12258
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	28.0	19.0	28.4

Manual Integrations
APPROVED

Sohil
12/1/2017 11:13:27 AM



#91

Benzo(g,h,i)perylene

Concen: 12.191 ng/mL

RT: 17.43 min Scan# 2608

Delta R.T. -0.01 min

Lab File: BF101051.D

Acq: 1 Dec 2017 8:10

Tgt Ion:	276	Resp:	47786
Ion Ratio	Lower	Upper	
276	100		
277	21.4	17.9	26.9
138	19.5	21.8	32.8#

