

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111617\
 Data File : BF100637.D
 Acq On : 16 Nov 2017 18:14
 Operator : SJ/JU
 Sample : I6305-07DL 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-111317-CDL

Manual Integrations
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 11/17/2017 1:25:05 PM

Quant Time: Nov 16 18:49:59 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 16 17:27:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	124592	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	502359	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	234218	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	405794	20.00	ng	0.00
75) Chrysene-d12	14.04	240	237703	20.00	ng	0.00
86) Perylene-d12	15.52	264	252258	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	78100	10.05	ng	-0.01
7) Phenol-d6	6.49	99	99663	10.40	ng	-0.02
23) Nitrobenzene-d5	7.44	82	57282	7.54	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	18291	7.66	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	113016	7.35	ng	0.00
78) Terphenyl-d14	12.99	244	76437	7.39	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.19	128	176655	7.301	ng	99
37) 2-Methylnaphthalene	8.87	142	77656	4.834	ng	96
51) Acenaphthene	9.95	154	66528	4.491	ng	97
54) Dibenzofuran	10.12	168	126204	6.079	ng	98
57) Fluorene	10.46	166	197194	12.966	ng	99
70) Phenanthrene	11.43	178	939405	43.968	ng	99
71) Anthracene	11.48	178	243982	11.256	ng	98
72) Carbazole	11.63	167	81150	4.057	ng	98
74) Fluoranthene	12.62	202	685648	30.280	ng	96
77) Pyrene	12.85	202	552355	32.598	ng	99
80) Benzo(a)anthracene	14.03	228	223920	15.643	ng	99
82) Chrysene	14.07	228	175610	12.669	ng	98
85) Indeno(1,2,3-cd)pyrene	17.00	276	77826	6.941	ng	# 91
87) Benzo(b)fluoranthene	15.09	252	215392m	14.412	ng	
88) Benzo(k)fluoranthene	15.11	252	63856m	4.522	ng	
89) Benzo(a)pyrene	15.45	252	156604	11.820	ng	98
91) Benzo(g,h,i)perylene	17.44	276	67377	6.352	ng	97

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

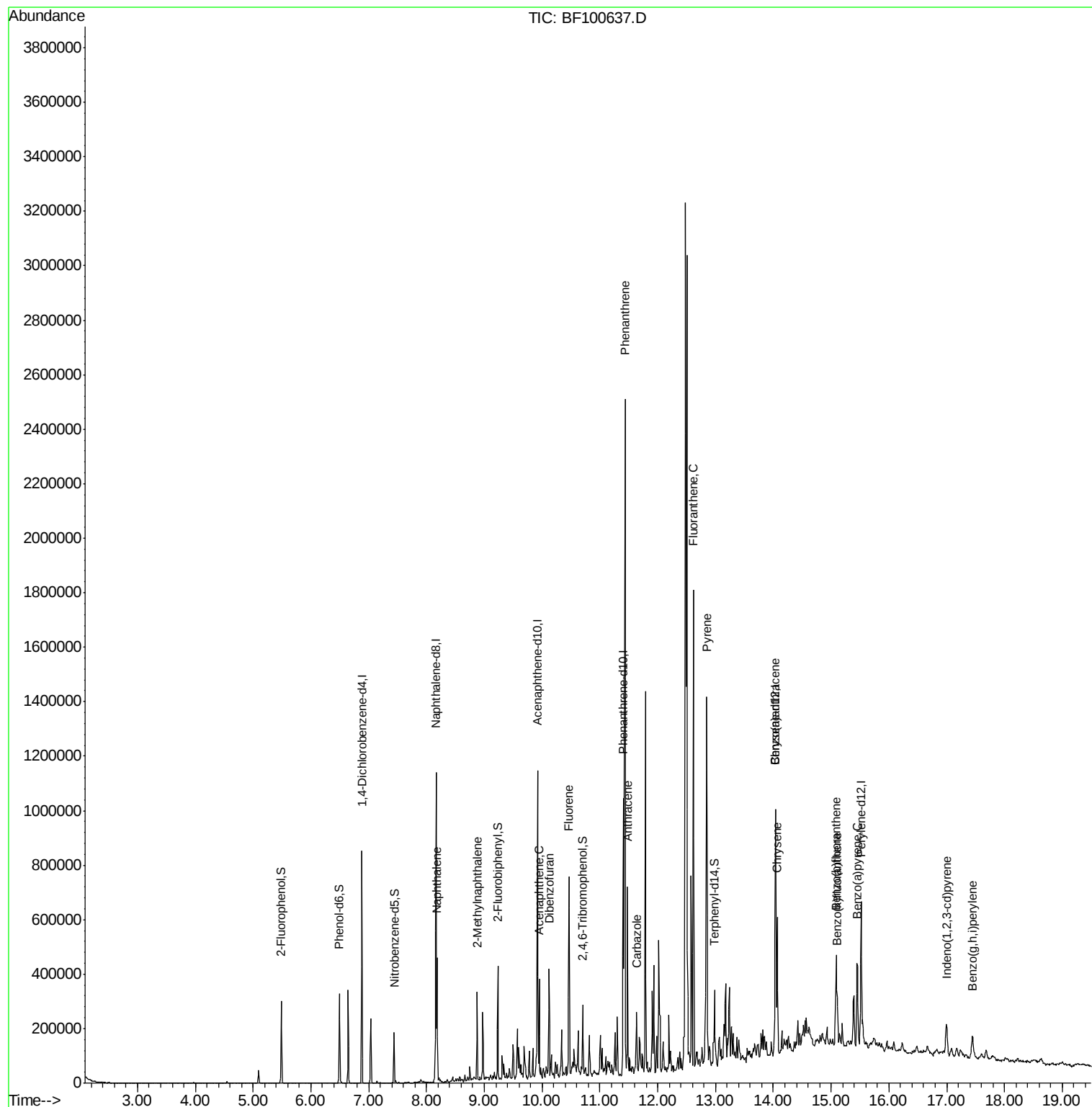
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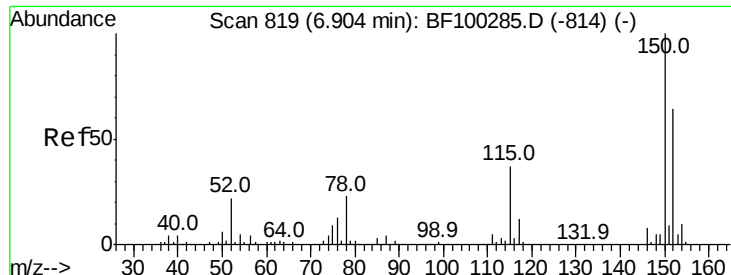
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#1

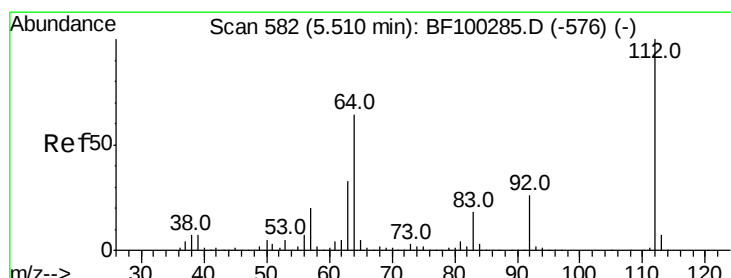
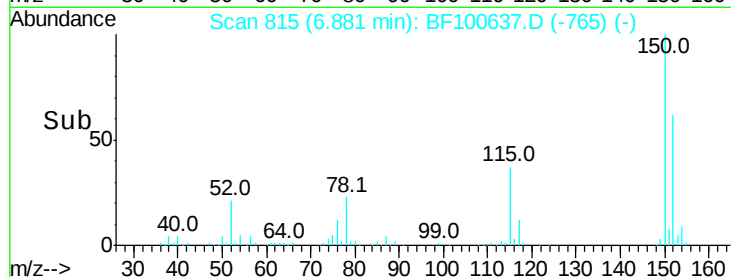
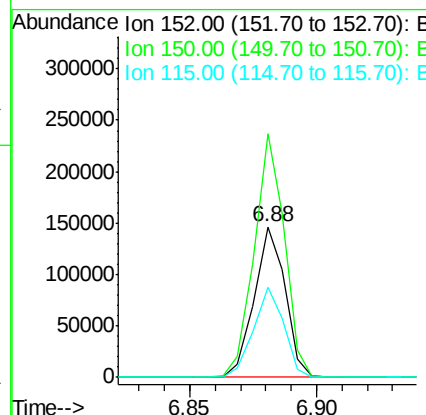
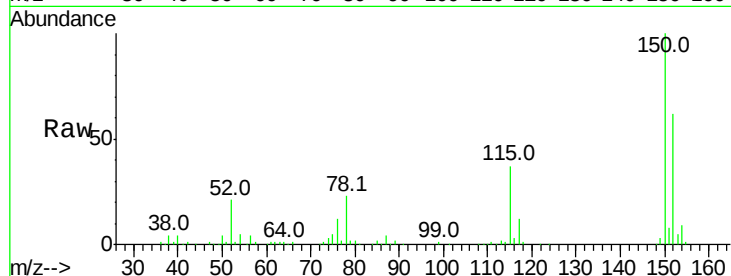
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-CDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.0	124.6	186.8
115	60.2	50.1	75.1

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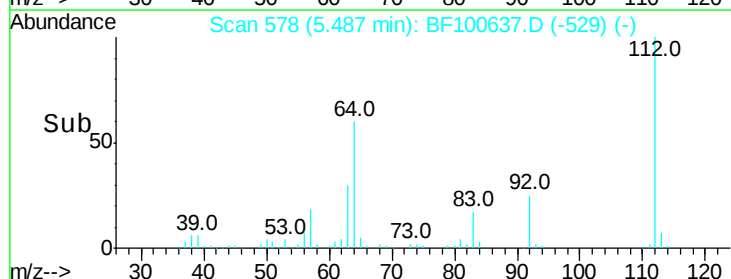
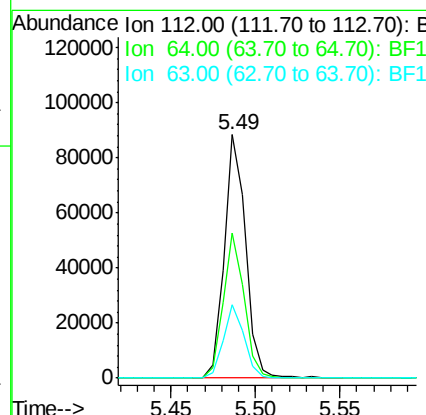
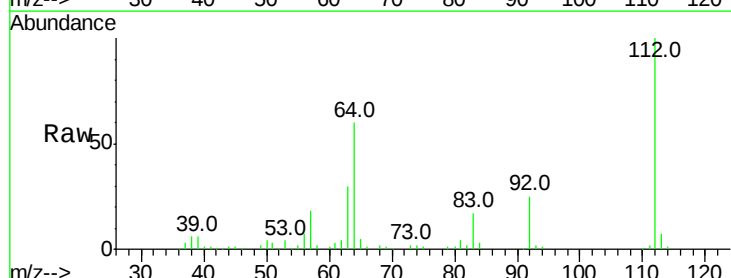
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#5

2-Fluorophenol
Concen: 10.048 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.01 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.5	47.9	71.9
63	30.0	23.7	35.5





#7

Phenol-d6

Concen: 10.398 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Instrument :

BNA_F

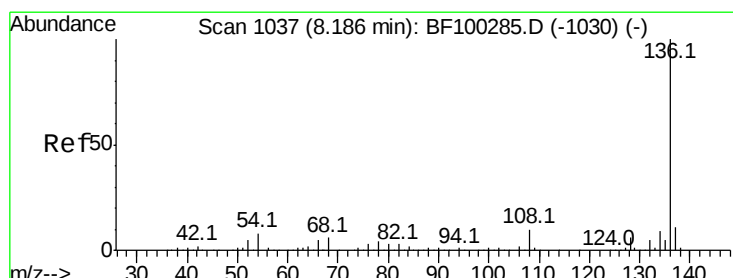
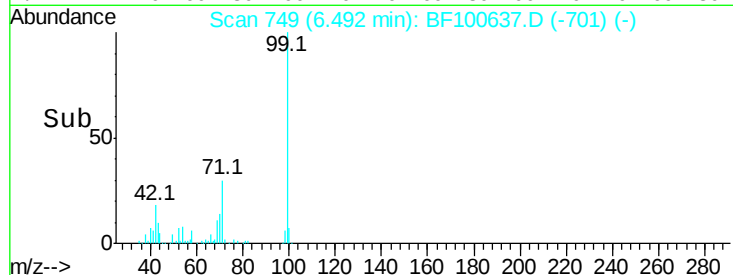
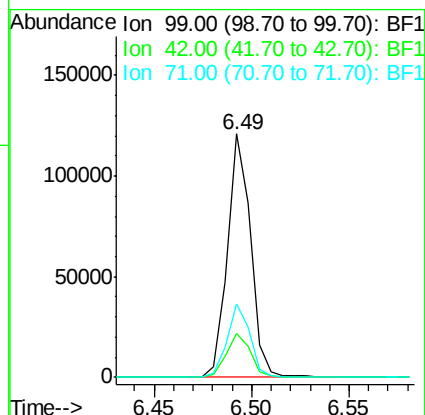
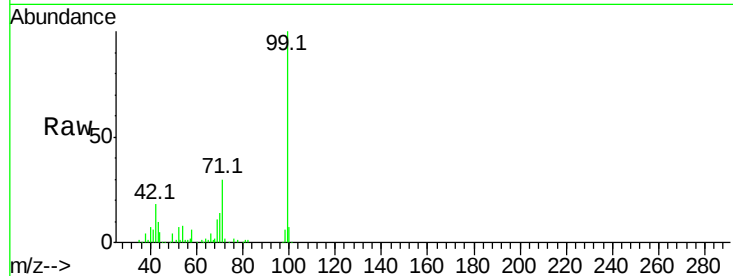
ClientSampleId :

PL-01-111317-CDL

Tot Ion:	99	Resp:	99663
Ion Ratio	Lower	Upper	
99	100		
42	18.0	14.5	21.7
71	30.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

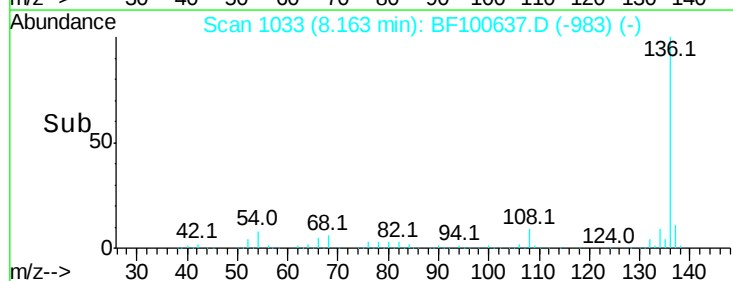
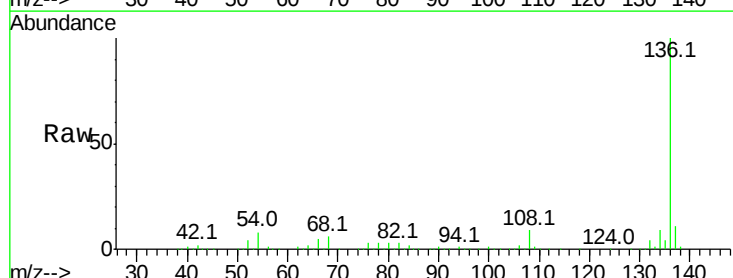
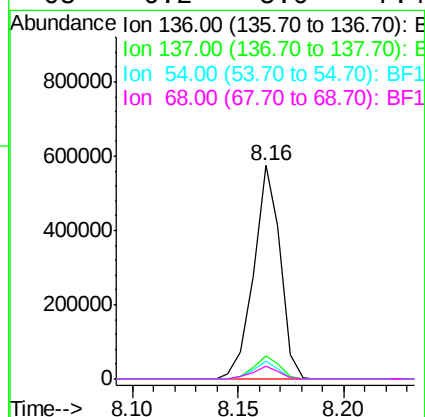
RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Tgt Ion:	136	Resp:	502359
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	8.5	6.6	9.8
68	6.2	5.0	7.4





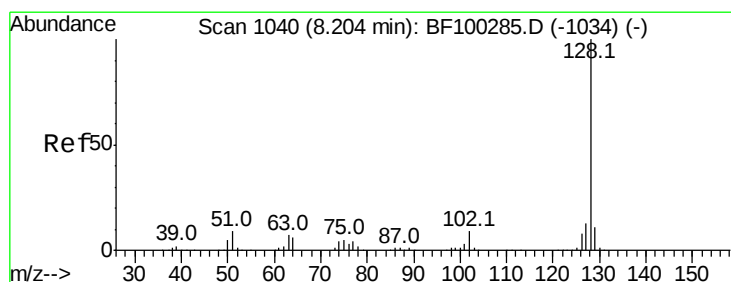
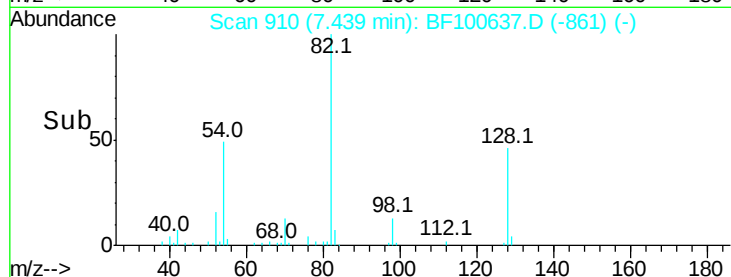
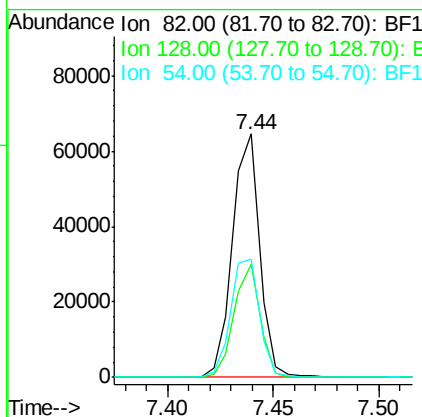
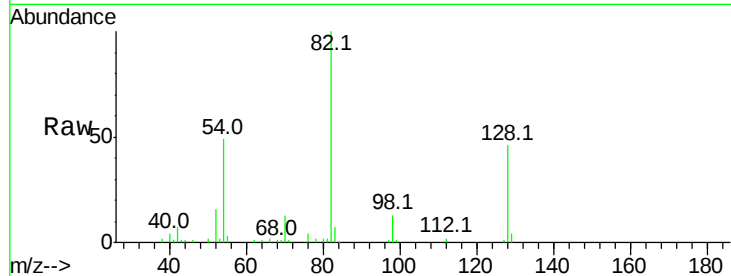
#23
 Nitrobenzene-d5
 Concen: 7.539 ng
 RT: 7.44 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: BF100637.D
 Acq: 16 Nov 2017 18:14

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-111317-CDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.3	36.1	54.1
54	48.6	41.4	62.2

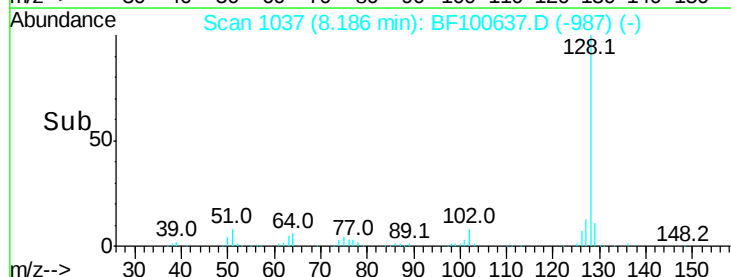
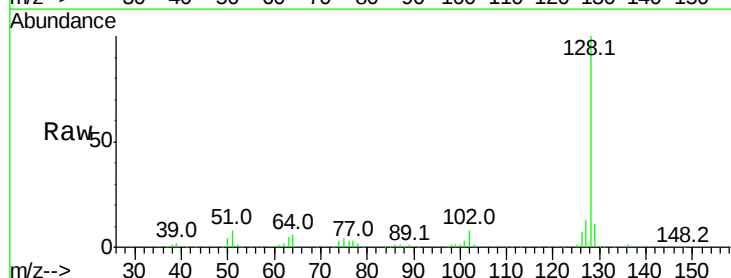
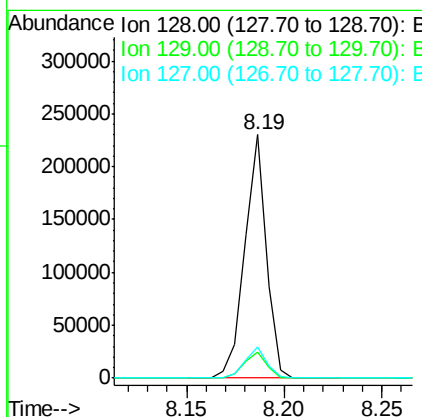
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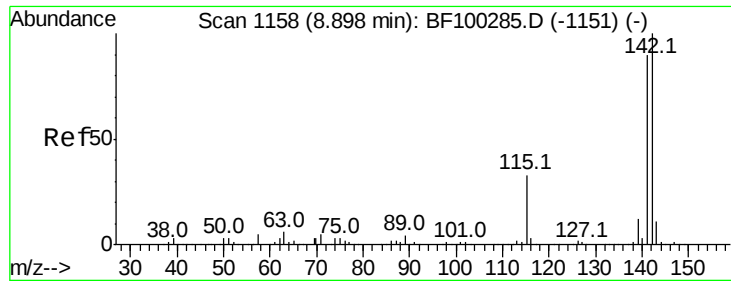
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#31
 Naphthalene
 Concen: 7.301 ng
 RT: 8.19 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: BF100637.D
 Acq: 16 Nov 2017 18:14

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	12.8	10.9	16.3





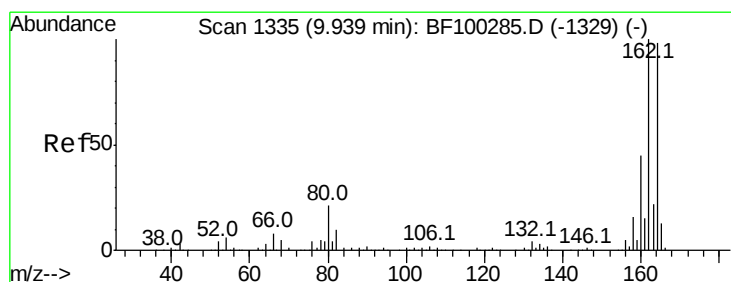
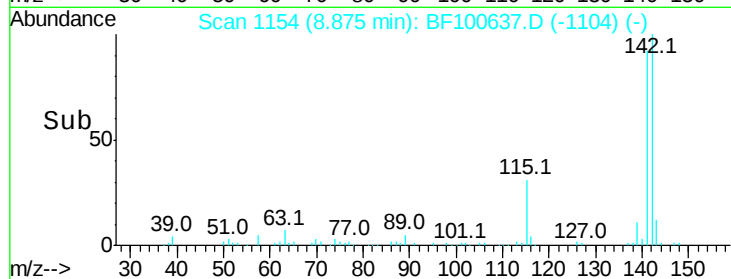
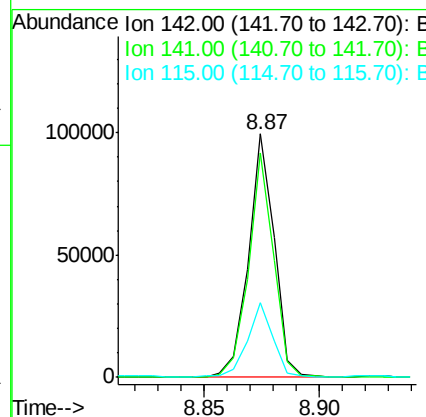
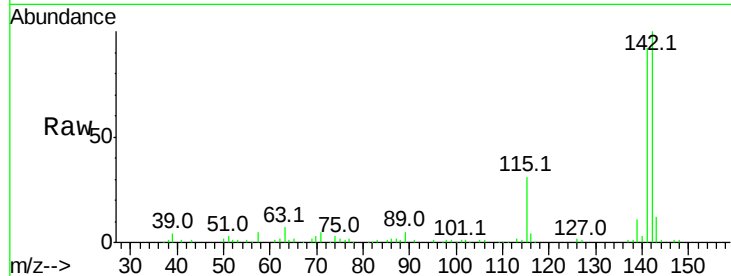
#37
2-Methylnaphthalene
Concen: 4.834 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-CDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.2	70.8	106.2
115	30.6	26.1	39.1

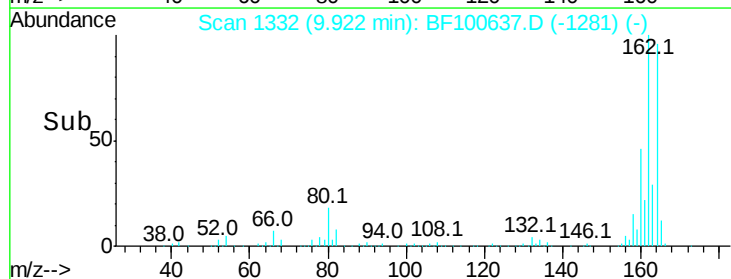
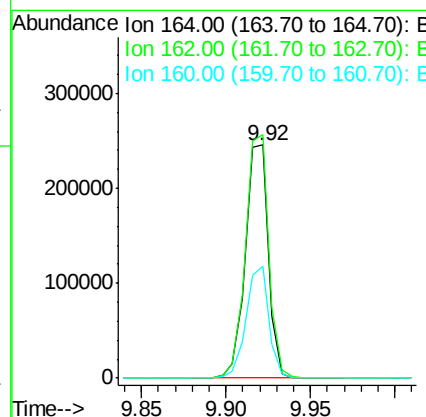
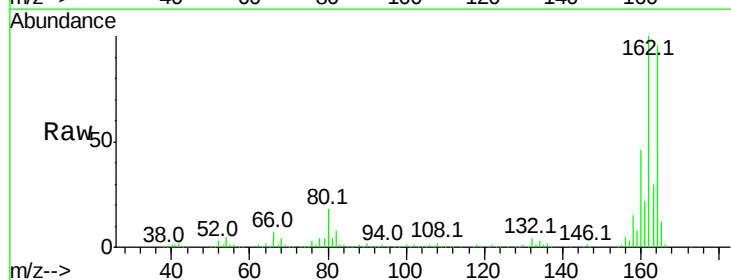
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.00 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	86.1	129.1
160	47.8	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 7.664 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Instrument :

BNA_F

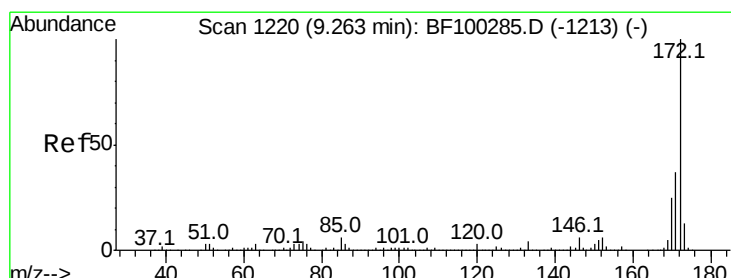
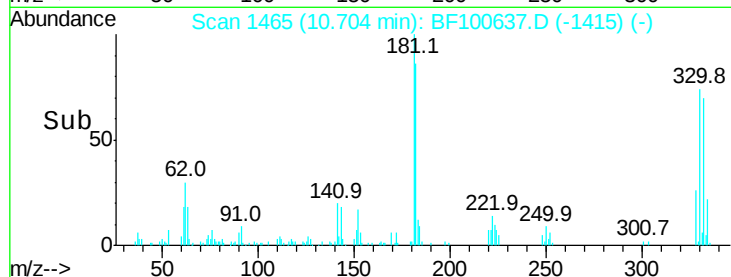
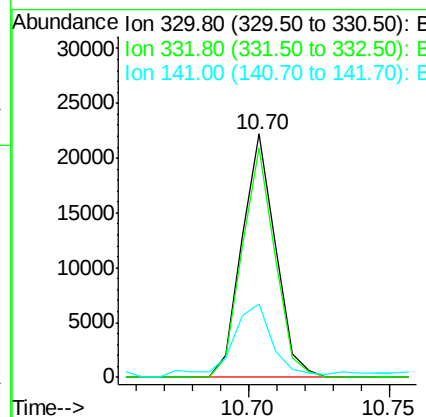
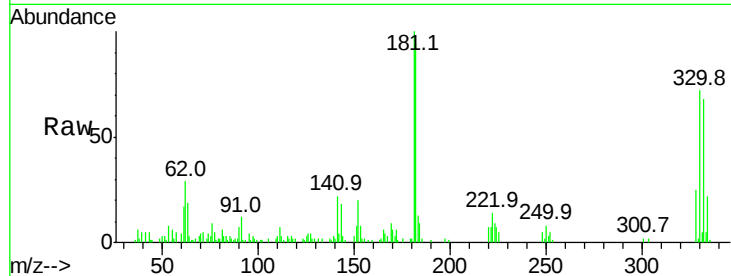
ClientSampleId :

PL-01-111317-CDL

Tot Ion:	330	Resp:	18291
Ion Ratio	Lower	Upper	
330	100		
332	92.3	77.0	115.6
141	37.7	29.9	44.9

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#44

2-Fluorobiphenyl

Concen: 7.347 ng

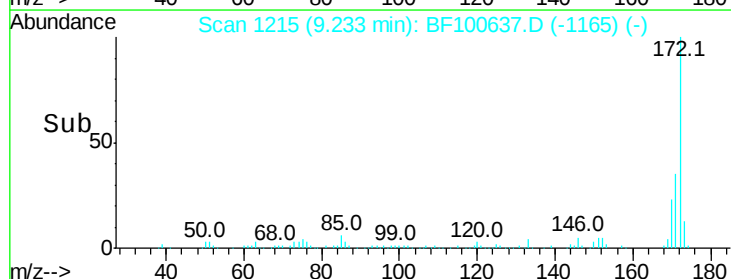
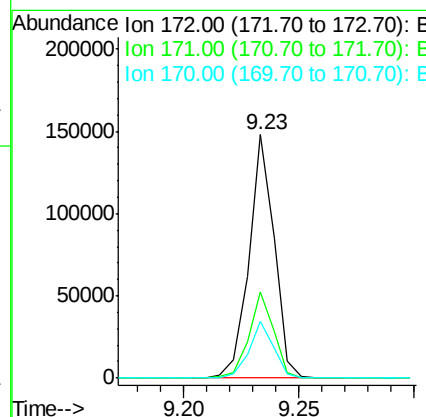
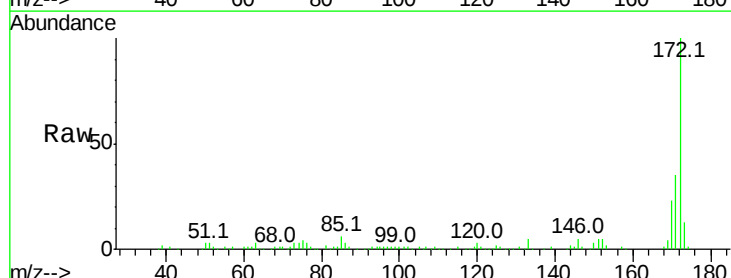
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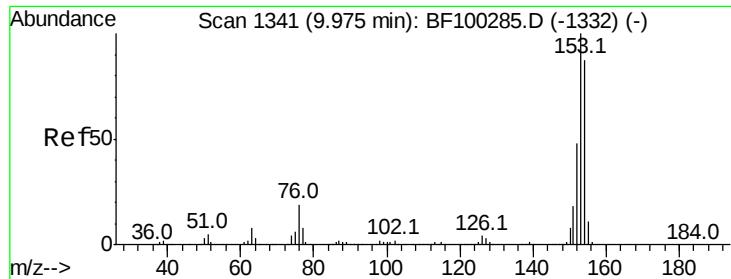
Delta R.T. -0.01 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Tgt Ion:	172	Resp:	113016
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.7	44.5
170	23.1	19.6	29.4





#51

Acenaphthene

Concen: 4.491 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Instrument :

BNA_F

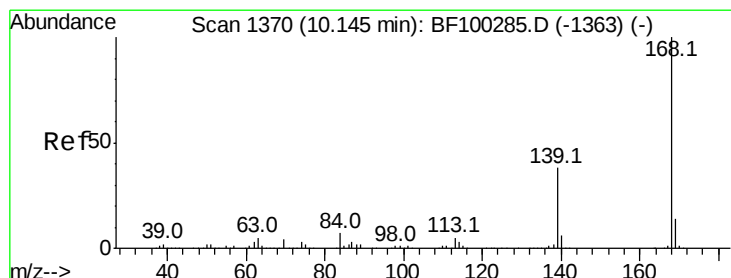
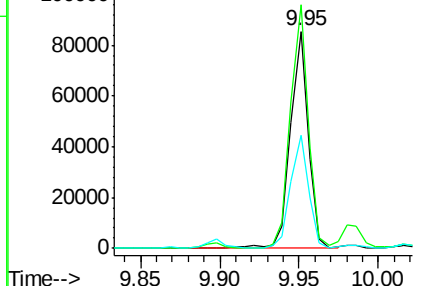
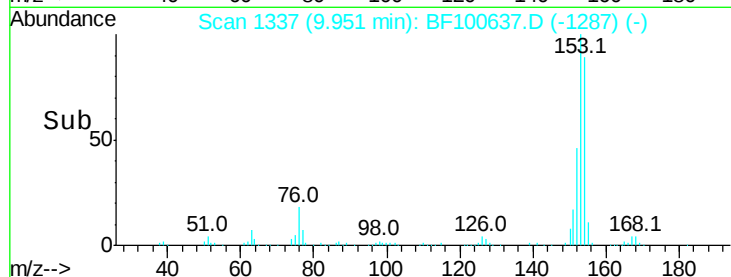
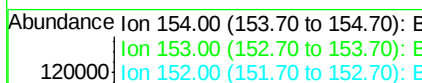
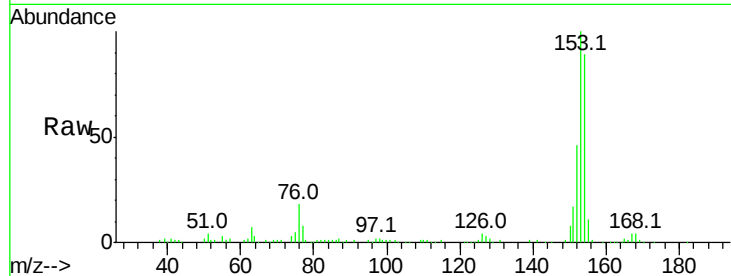
ClientSampleId :

PL-01-111317-CDL

Tot Ion:	154	Resp:	66528
Ion Ratio	Lower	Upper	
154	100		
153	112.0	91.2	136.8
152	51.9	43.8	65.8

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#54

Dibenzofuran

Concen: 6.079 ng

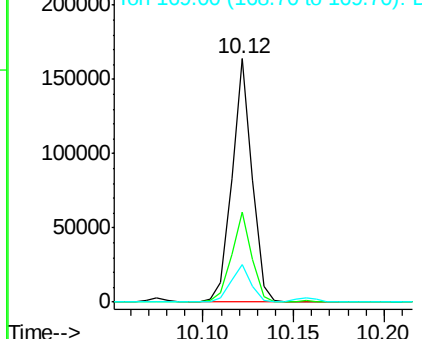
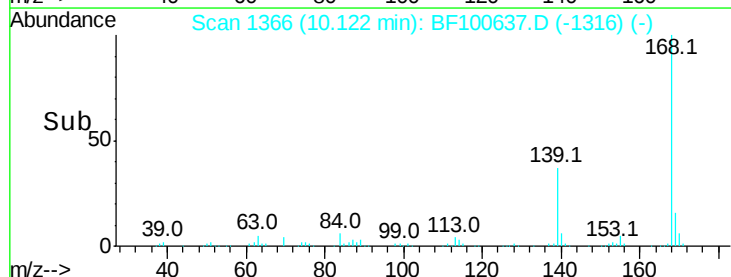
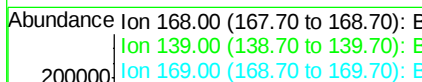
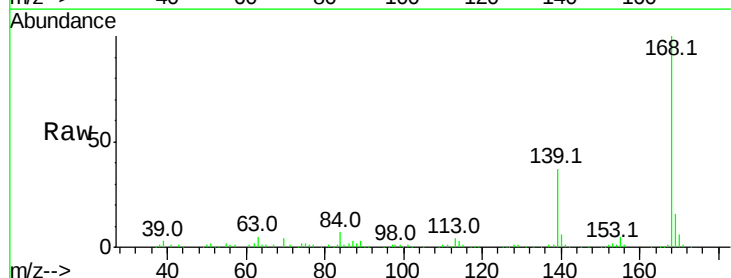
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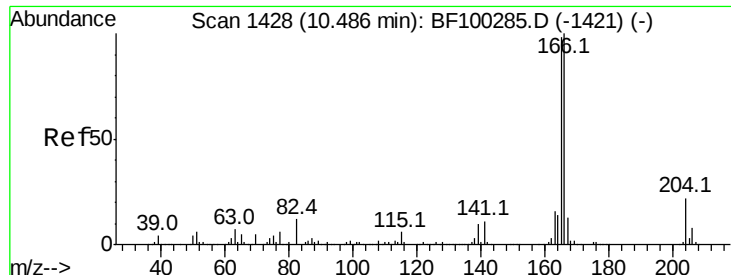
Delta R.T. -0.01 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Tgt Ion:	168	Resp:	126204
Ion Ratio	Lower	Upper	
168	100		
139	36.9	30.1	45.1
169	15.6	10.9	16.3





#57

Fluorene

Concen: 12.966 ng

RT: 10.46 min Scan# 1424

Delta R.T. -0.01 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Instrument :

BNA_F

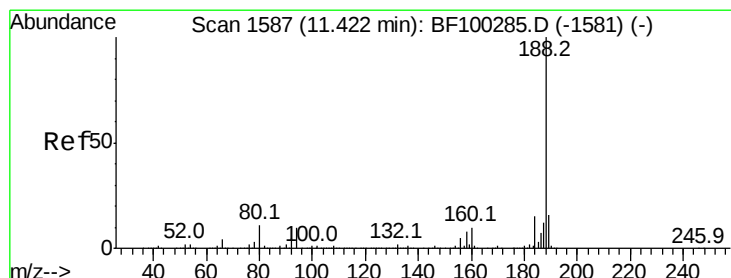
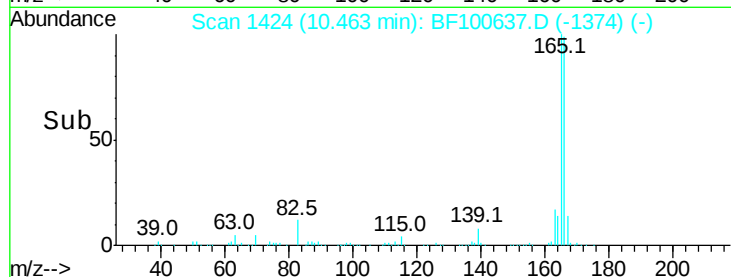
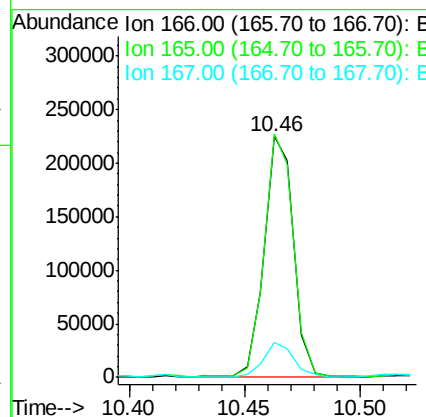
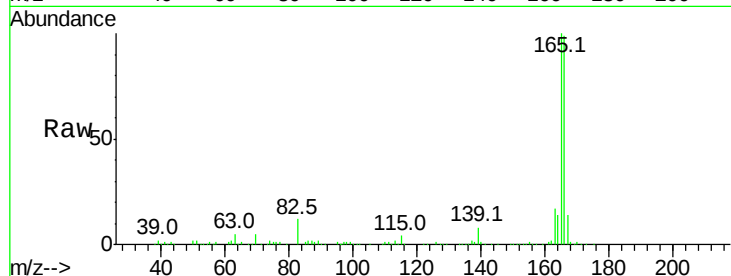
ClientSampleId :

PL-01-111317-CDL

Tot Ion:	166	Resp:	197194
Ion Ratio	Lower	Upper	
166	100		
165	101.0	79.8	119.8
167	14.3	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

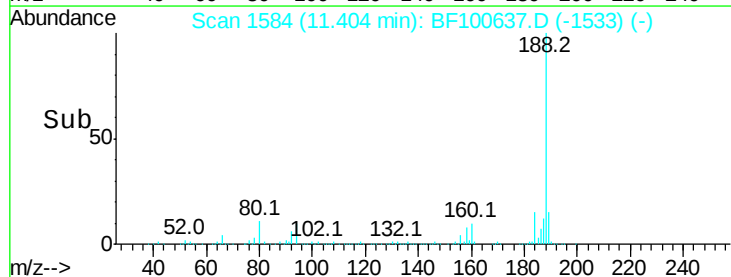
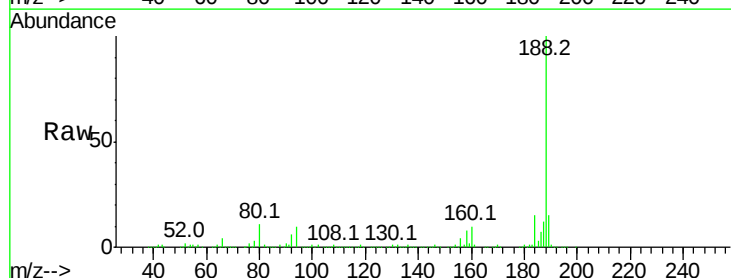
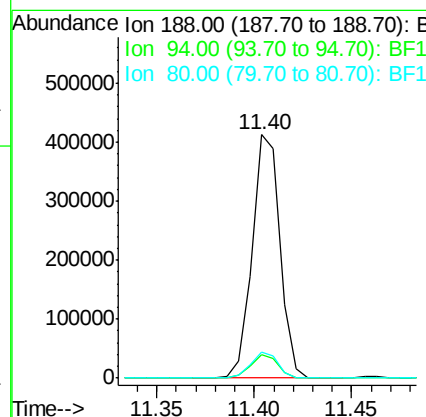
RT: 11.40 min Scan# 1584

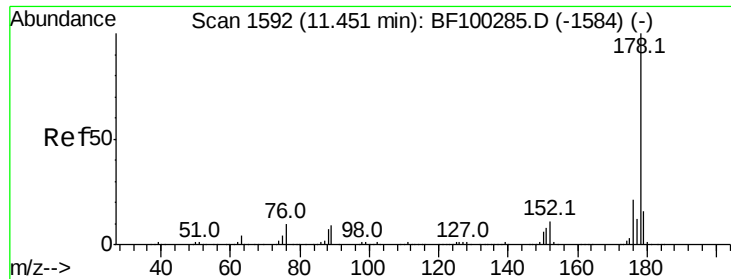
Delta R.T. -0.00 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Tgt Ion:	188	Resp:	405794
Ion Ratio	Lower	Upper	
188	100		
94	9.7	8.5	12.7
80	10.6	9.2	13.8





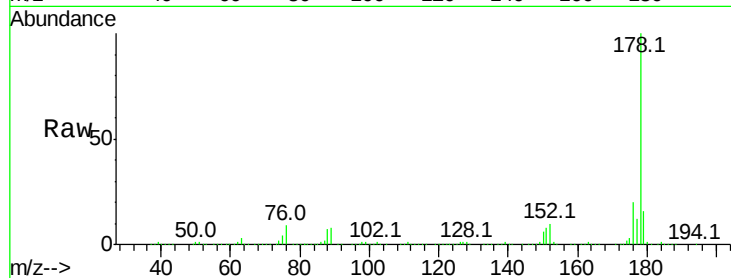
#70
Phenanthrene
Concen: 43.968 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.00 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-CDL

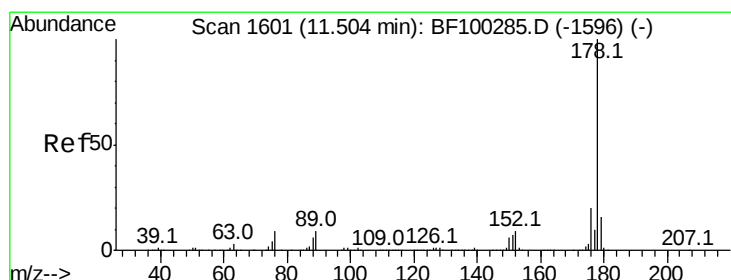
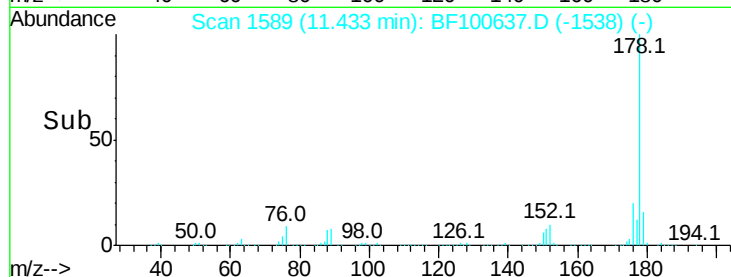
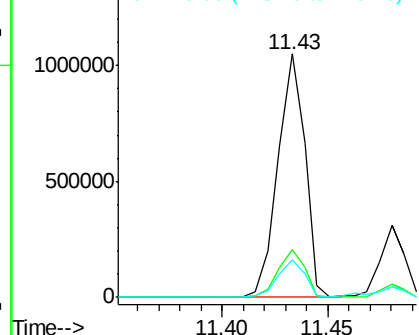
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.6	13.0	19.6

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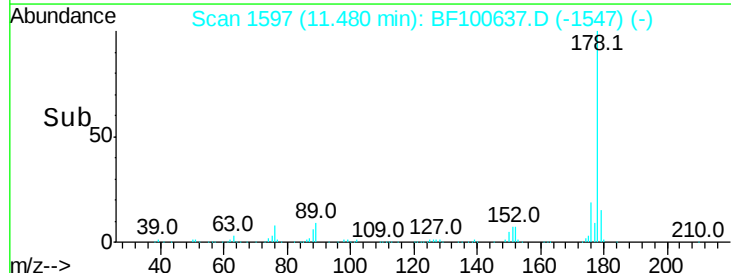
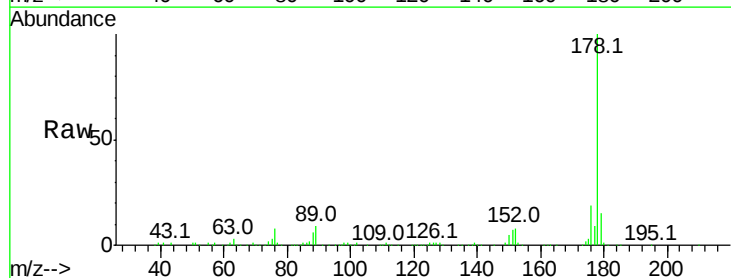
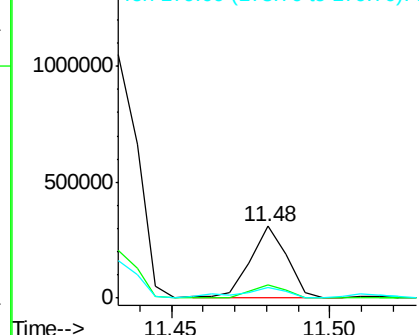
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

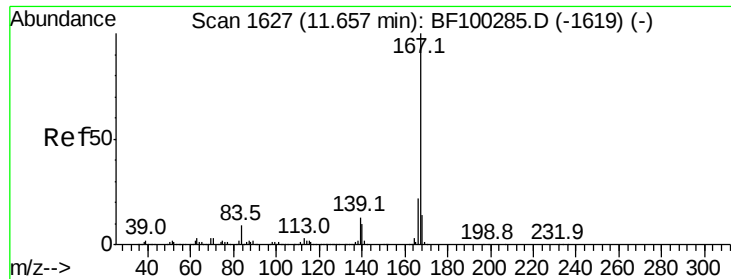


#71
Anthracene
Concen: 11.256 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	14.7	12.6	19.0

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





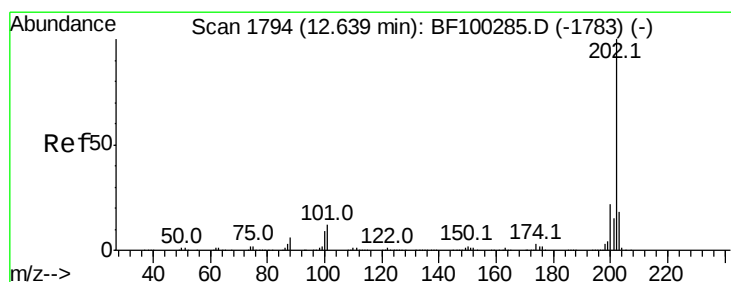
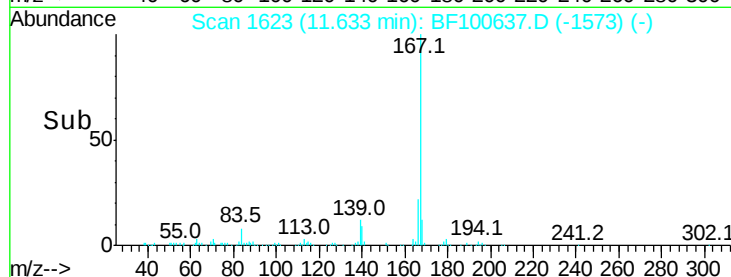
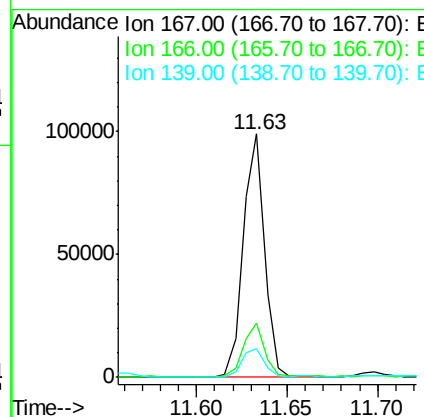
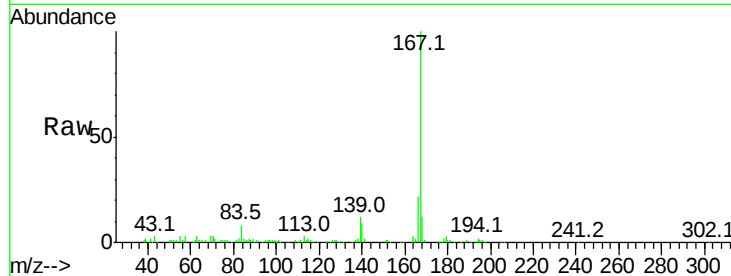
#72
 Carbazole
 Concen: 4.057 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. -0.01 min
 Lab File: BF100637.D
 Acq: 16 Nov 2017 18:14

Instrument :
 BNA_F
 ClientSampled :
 PL-01-111317-CDL

Tot Ion	Ratio	Resp	Lower	Upper
167	100			
166	22.0	17.6	26.4	
139	11.7	10.9	16.3	

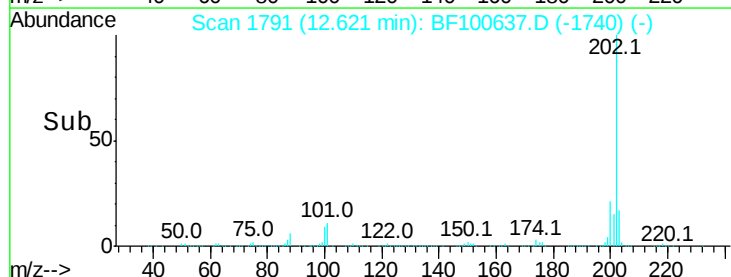
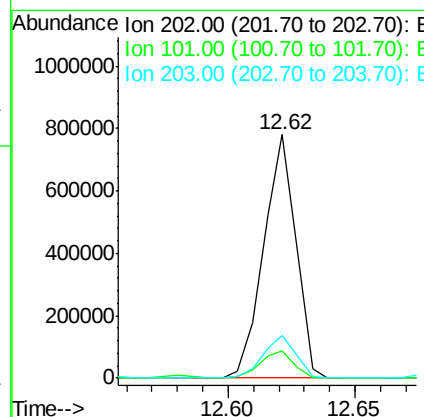
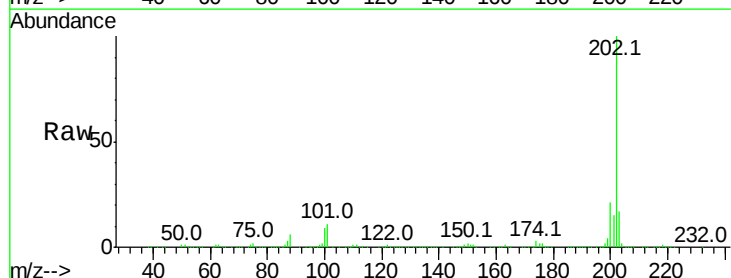
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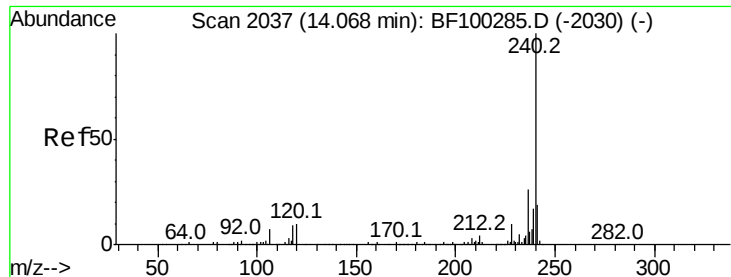
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#74
 Fluoranthene
 Concen: 30.280 ng
 RT: 12.62 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: BF100637.D
 Acq: 16 Nov 2017 18:14

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	11.3	0.0	34.1	
203	17.3	0.0	38.1	





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Instrument :

BNA_F

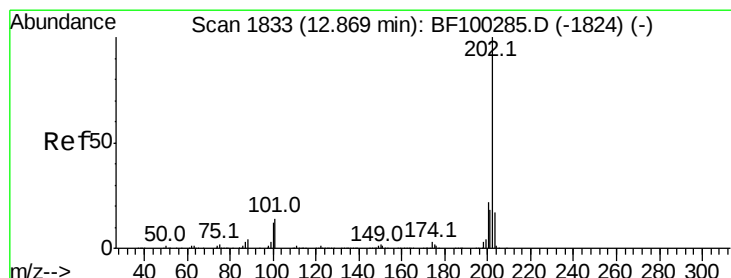
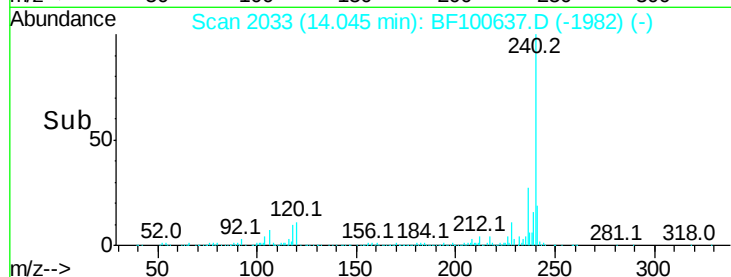
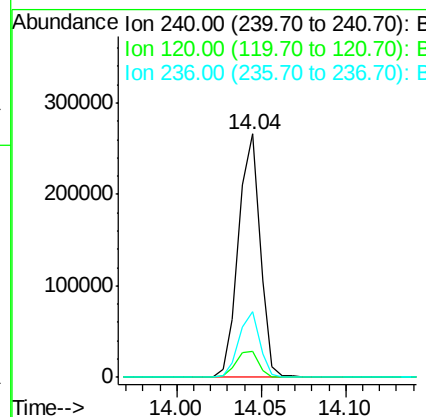
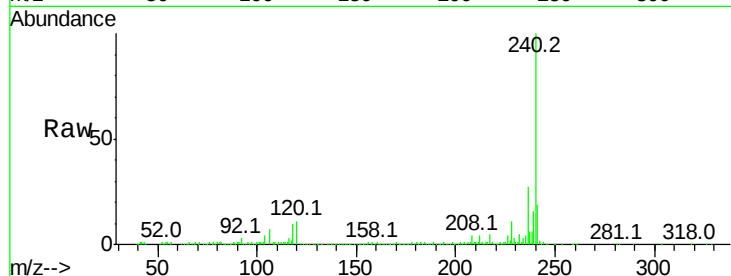
ClientSampleId :

PL-01-111317-CDL

Tot Ion:	240	Resp:	237703
Ion Ratio	Lower	Upper	
240	100		
120	10.6	9.5	14.3
236	26.9	20.7	31.1

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#77

Pyrene

Concen: 32.598 ng

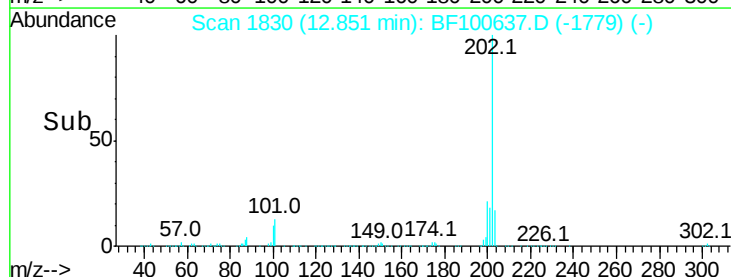
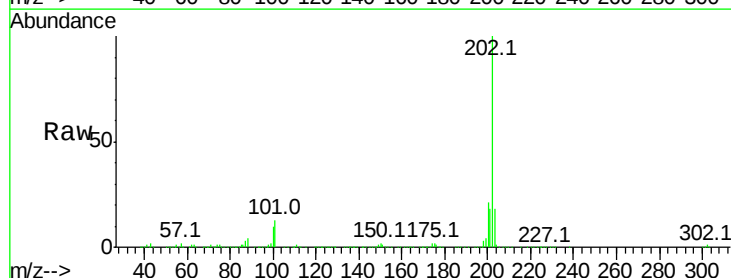
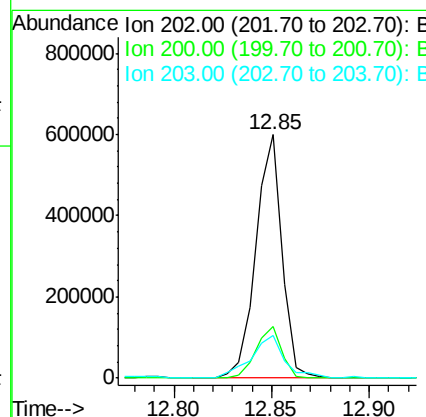
RT: 12.85 min Scan# 1830

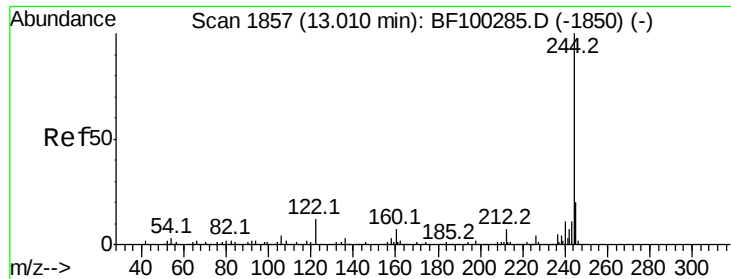
Delta R.T. -0.00 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Tgt Ion:	202	Resp:	552355
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.4	26.2
203	17.6	14.3	21.5





#78

Terphenyl-d14

Concen: 7.389 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Instrument :

BNA_F

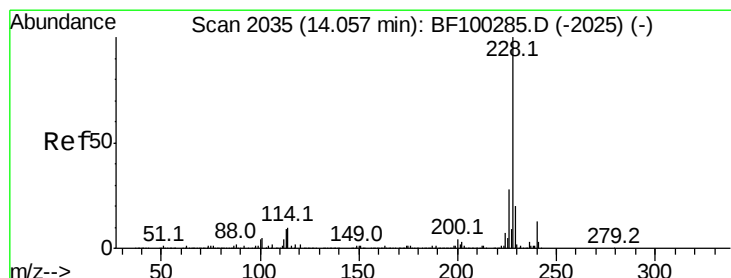
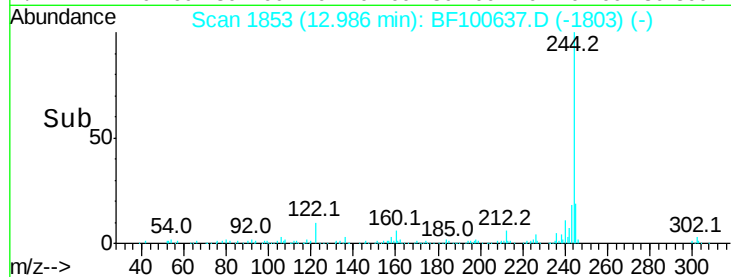
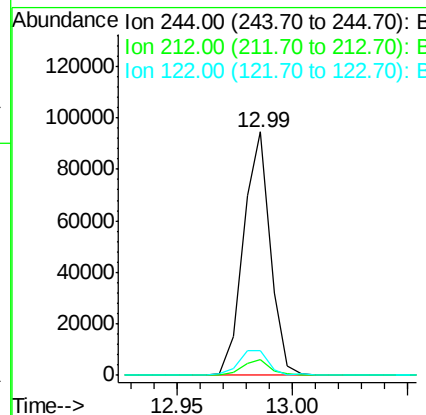
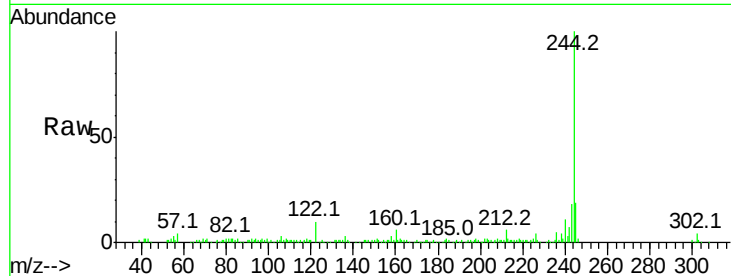
ClientSampleId :

PL-01-111317-CDL

Tot Ion:	244	Resp:	76437
Ion Ratio	Lower	Upper	
244	100		
212	6.2	5.4	8.0
122	10.2	11.0	16.4#

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#80

Benzo(a)anthracene

Concen: 15.643 ng

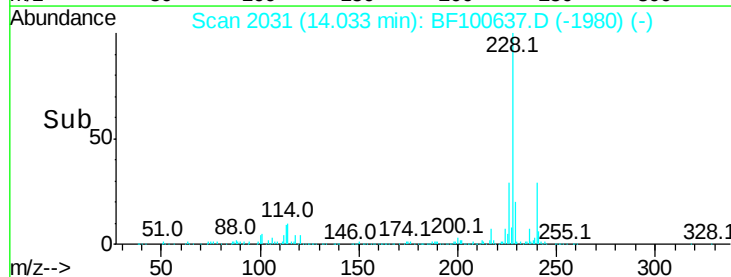
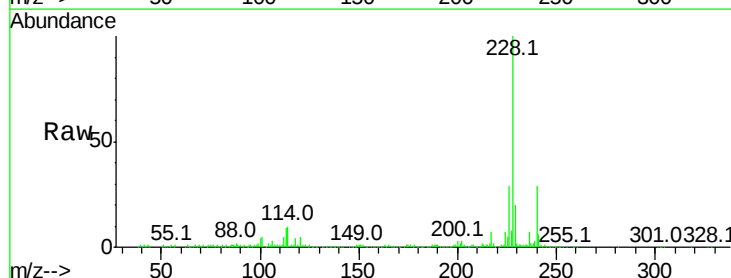
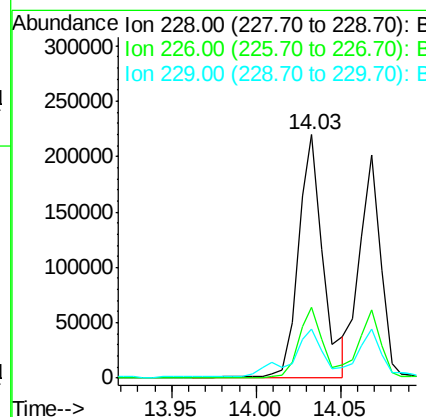
RT: 14.03 min Scan# 2031

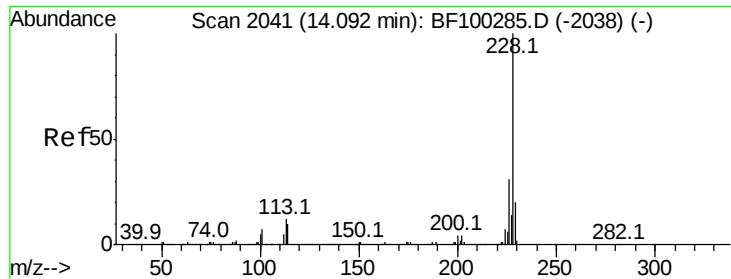
Delta R.T. -0.00 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Tgt Ion:	228	Resp:	223920
Ion Ratio	Lower	Upper	
228	100		
226	29.0	22.6	33.8
229	20.1	15.8	23.6





#82

Chrysene

Concen: 12.669 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Instrument :

BNA_F

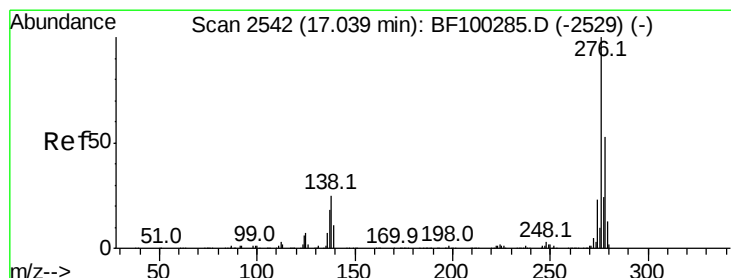
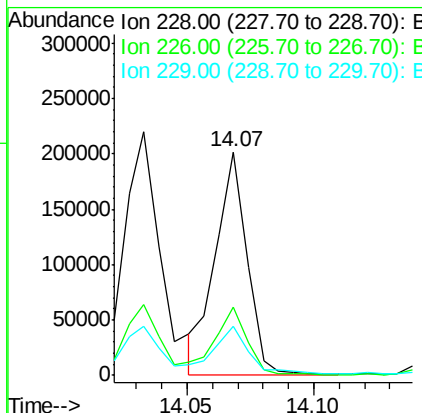
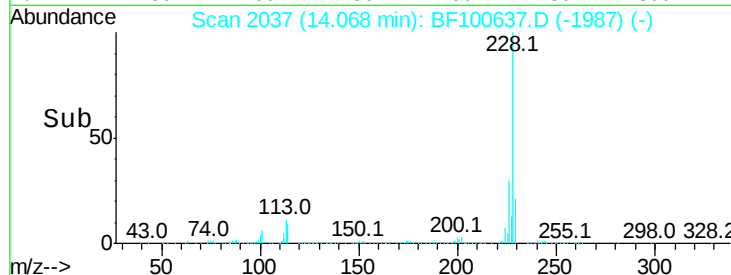
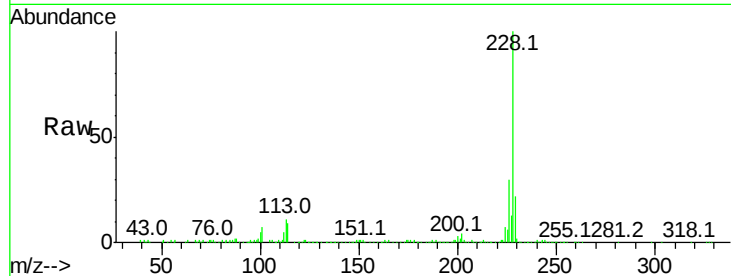
ClientSampleId :

PL-01-111317-CDL

Tot Ion:	228	Resp:	175610
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.0	37.6
229	21.9	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 6.941 ng

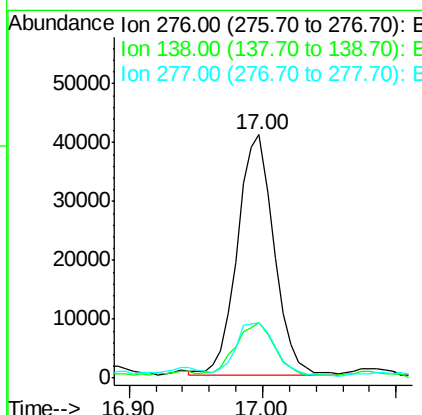
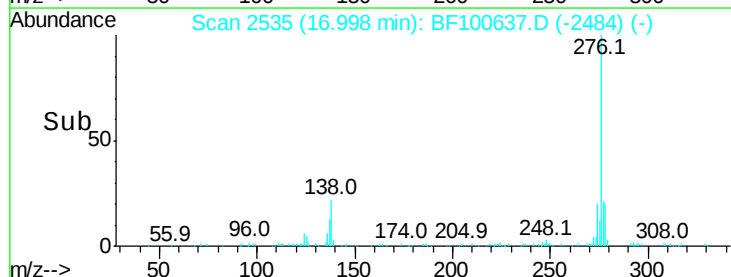
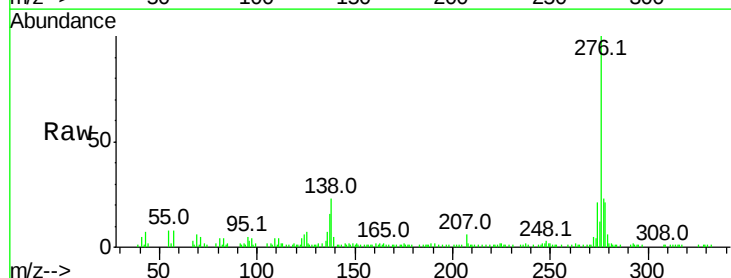
RT: 17.00 min Scan# 2535

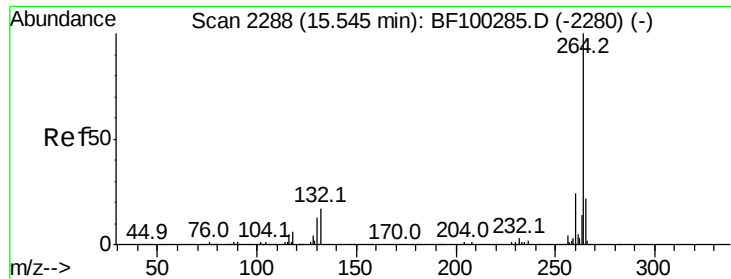
Delta R.T. -0.00 min

Lab File: BF100637.D

Acq: 16 Nov 2017 18:14

Tgt Ion:	276	Resp:	77826
Ion Ratio	Lower	Upper	
276	100		
138	23.1	25.0	37.6#
277	24.0	20.1	30.1





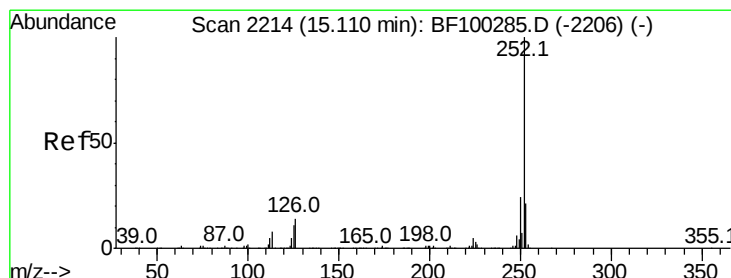
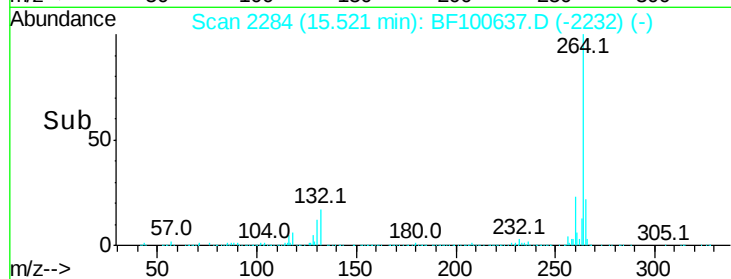
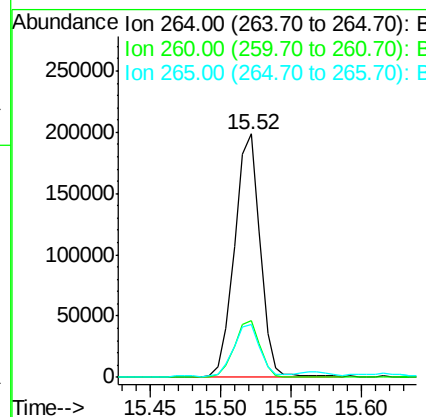
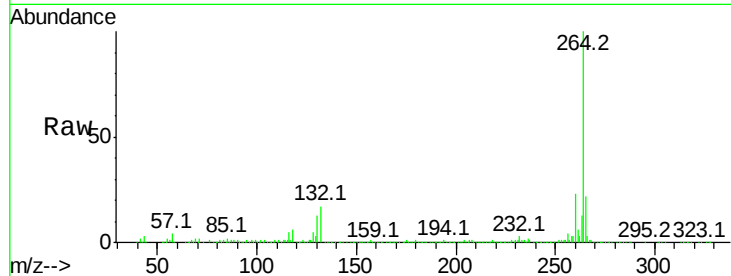
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2284
Delta R.T. 0.01 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-CDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	21.8	17.5	26.3

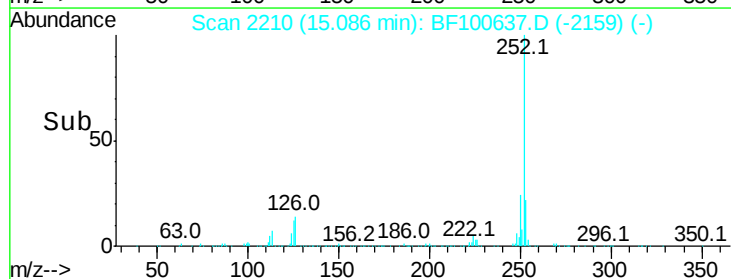
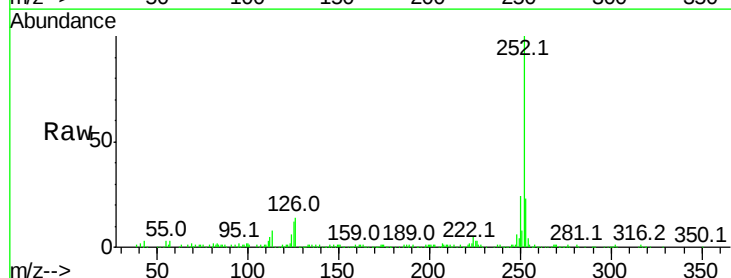
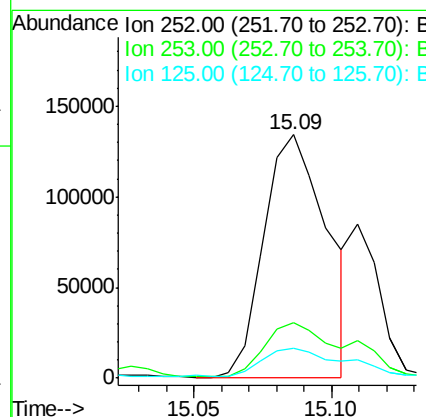
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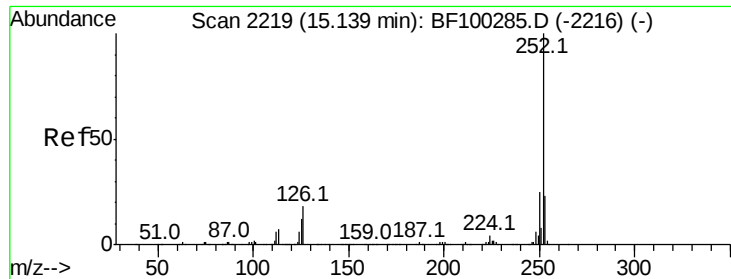
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#87
Benzo(b)fluoranthene
Concen: 14.412 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.00 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	12.4	9.0	13.6





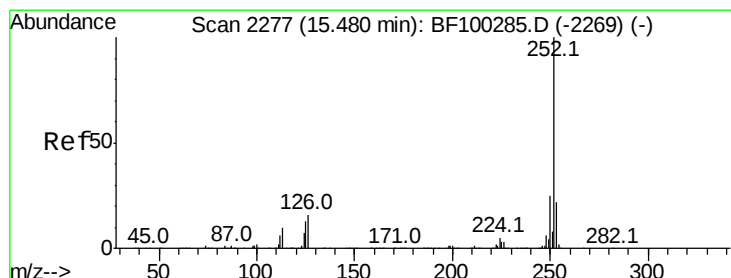
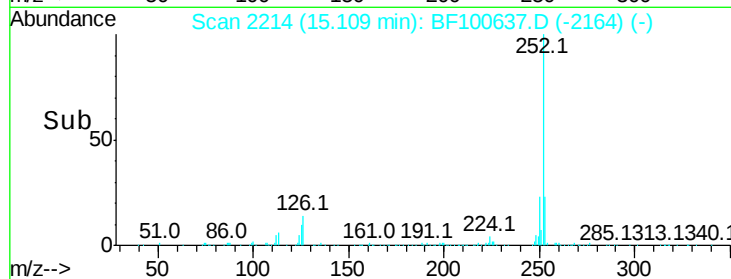
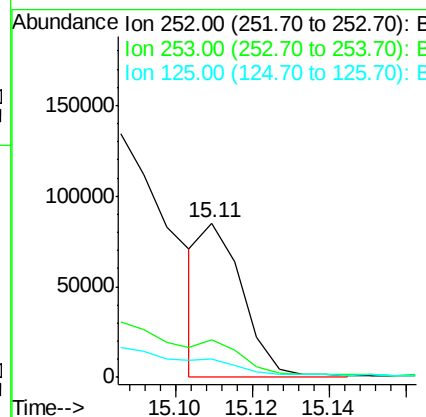
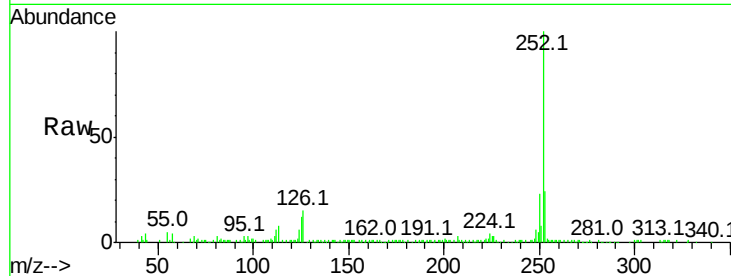
#88
Benzo(k)fluoranthene
Concen: 4.522 ng m
RT: 15.11 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-CDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.9	26.9
125	11.6	10.2	15.2

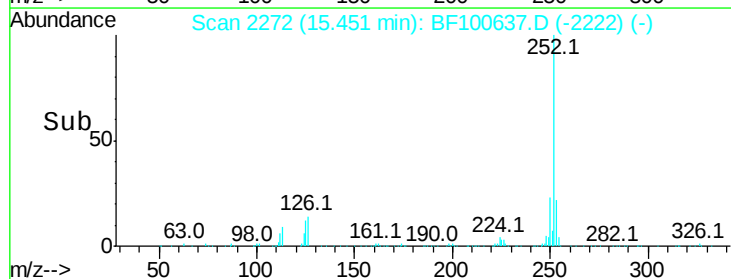
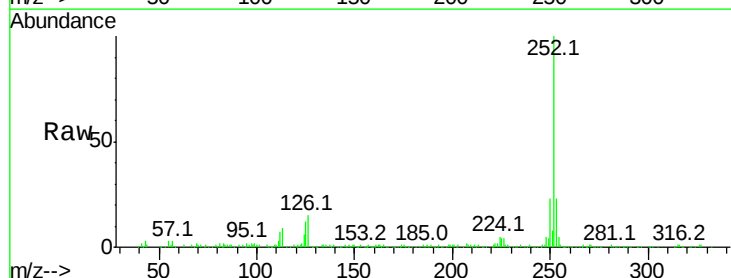
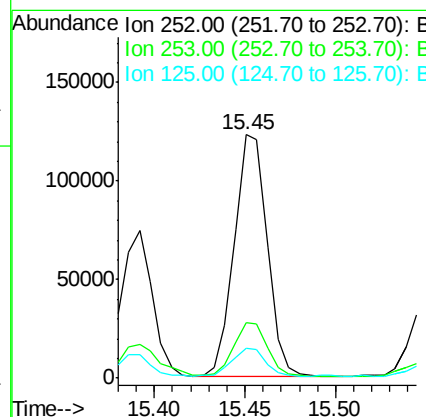
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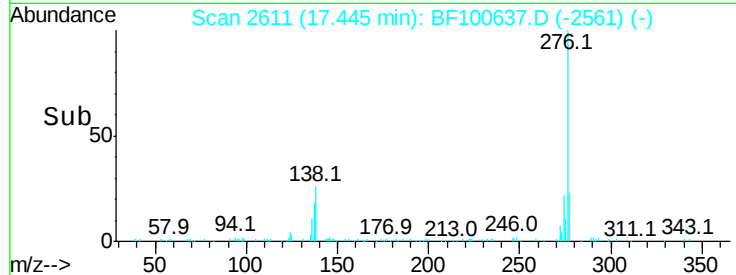
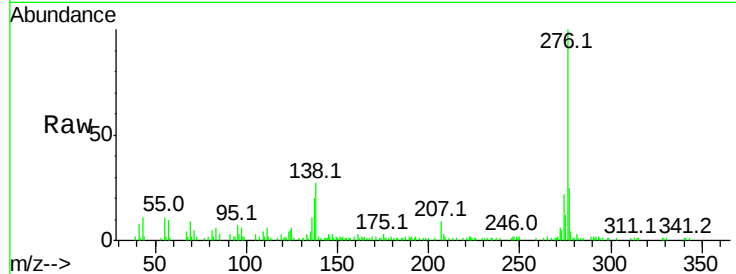
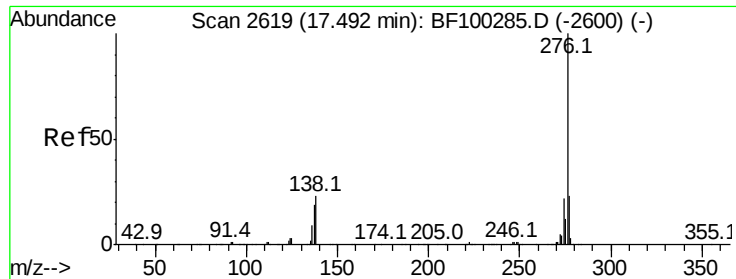
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#89
Benzo(a)pyrene
Concen: 11.820 ng
RT: 15.45 min Scan# 2272
Delta R.T. -0.01 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	12.5	9.8	14.6





#91
Benzo(a,h,i)perylene
Concen: 6.352 ng
RT: 17.44 min Scan# 2611
Delta R.T. -0.01 min
Lab File: BF100637.D
Acq: 16 Nov 2017 18:14

Tot Ion:	276	Resp:	67377
Ion Ratio	Lower	Upper	
276	100		
277	25.0	17.9	26.9
138	27.0	21.8	32.8

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-CDL

Manual Integrations
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