

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
 Data File : BF101158.D
 Acq On : 6 Dec 2017 9:51
 Operator : SJ/JU
 Sample : I6696-04DL 10X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP-BANK-1DL

Manual Integrations
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Quant Time: Dec 06 12:03:54 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:07:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	48744	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	189609	20.00	ng	0.00
38) Acenaphthene-d10	9.88	164	86688	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	151932	20.00	ng	0.00
75) Chrysene-d12	14.02	240	99307	20.00	ng	0.00
86) Perylene-d12	15.49	264	105446	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	28970	9.82	ng	0.00
7) Phenol-d6	6.47	99	34472	9.63	ng	-0.01
23) Nitrobenzene-d5	7.41	82	20182	6.35	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	6695	6.43	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	45027	7.11	ng	-0.01
78) Terphenyl-d14	12.95	244	36561	8.05	ng	-0.01
Target Compounds						
31) Naphthalene	8.15	128	423686	45.339	ng	99
37) 2-Methylnaphthalene	8.84	142	116192	18.299	ng	99
45) 1,1'-Biphenyl	9.30	154	44010	5.541	ng	95
48) Acenaphthylene	9.75	152	22090	2.383	ng	99
51) Acenaphthene	9.92	154	126632	22.814	ng	96
57) Fluorene	10.43	166	74074	11.392	ng	100
70) Phenanthrene	11.40	178	396974	47.446	ng	99
71) Anthracene	11.45	178	103255	12.194	ng	98
74) Fluoranthene	12.59	202	154968	16.709	ng	95
77) Pyrene	12.82	202	216349	31.572	ng	96
80) Benzo(a)anthracene	14.00	228	60237m	9.607	ng	
82) Chrysene	14.04	228	49442	8.491	ng	99
85) Indeno(1,2,3-cd)pyrene	16.97	276	19300	3.728	ng	# 86
87) Benzo(b)fluoranthene	15.06	252	44496m	7.045	ng	
88) Benzo(k)fluoranthene	15.09	252	12756m	2.050	ng	
89) Benzo(a)pyrene	15.43	252	53112	9.250	ng	98
91) Benzo(a,h,i)perylene	17.42	276	20473	4.292	ng	# 91

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

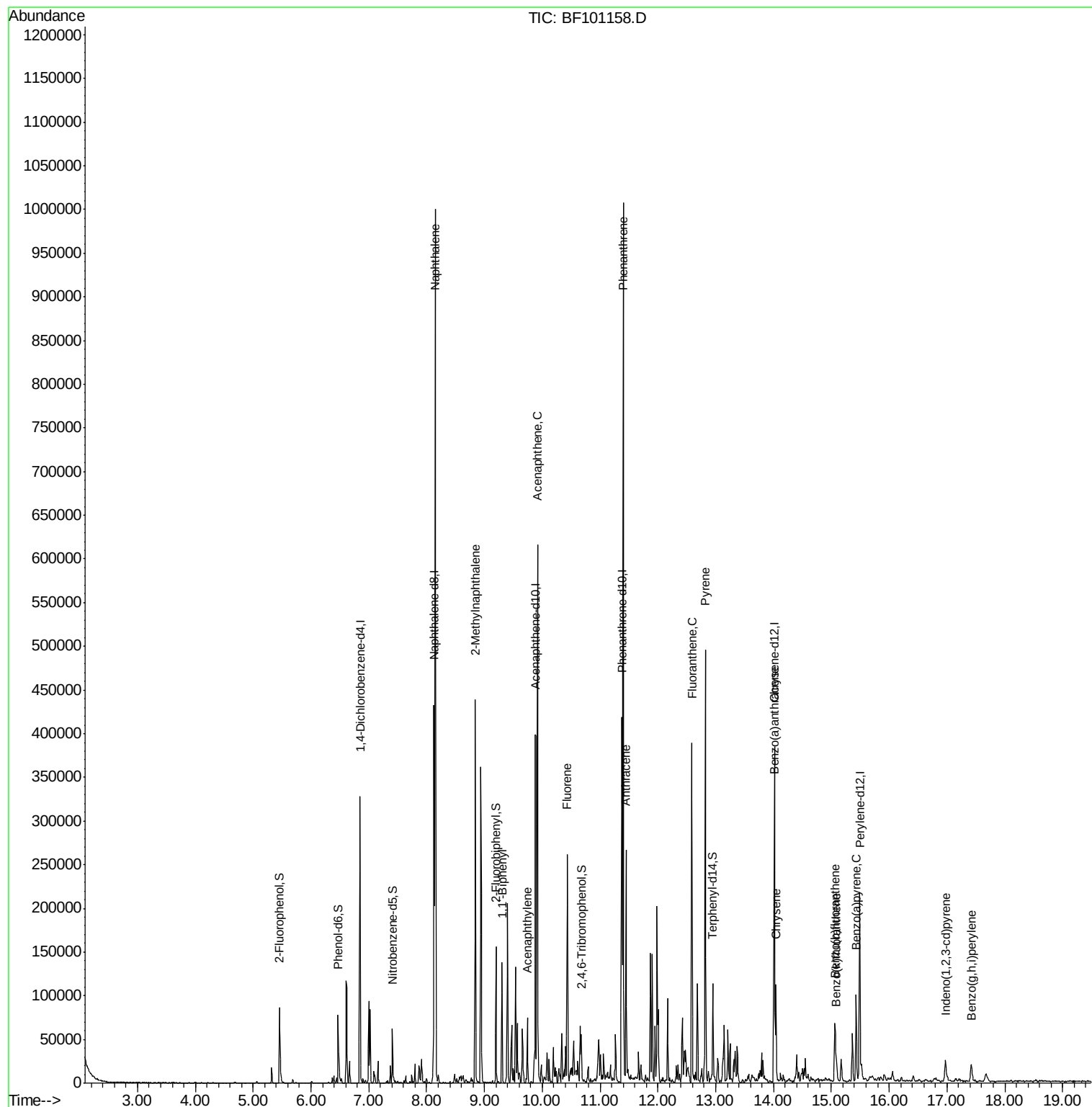
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
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ALS Vial : 45 Sample Multiplier: 1

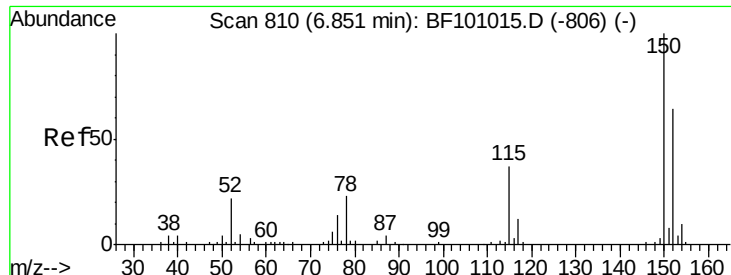
Instrument :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
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#1

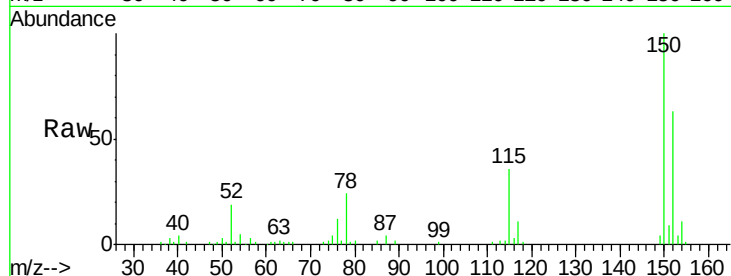
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-1DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.6	186.8
115	56.6	50.1	75.1

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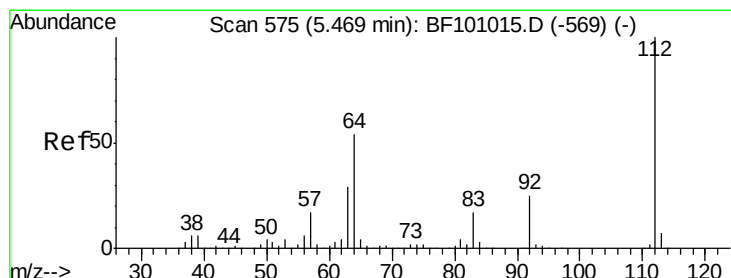
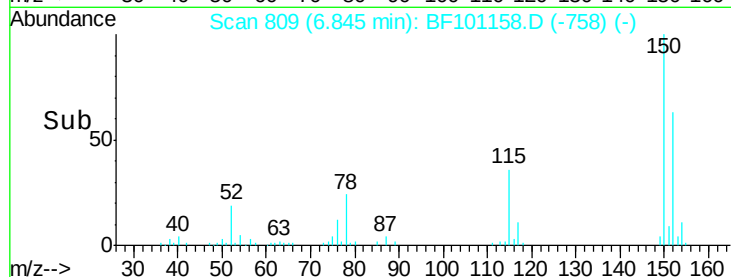
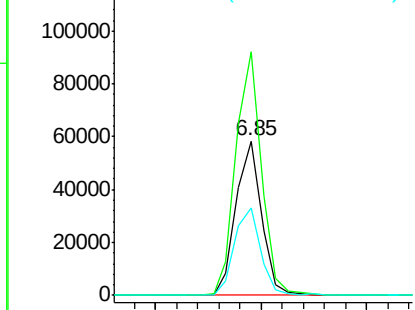


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

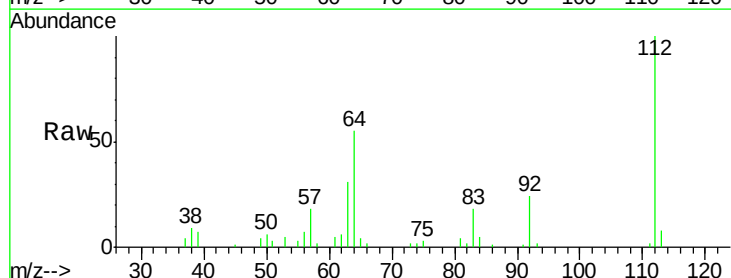
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 9.821 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	47.9	71.9
63	31.4	23.7	35.5

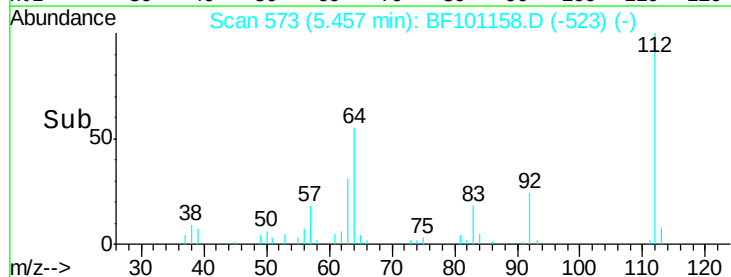
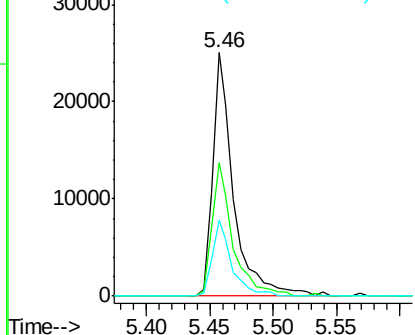


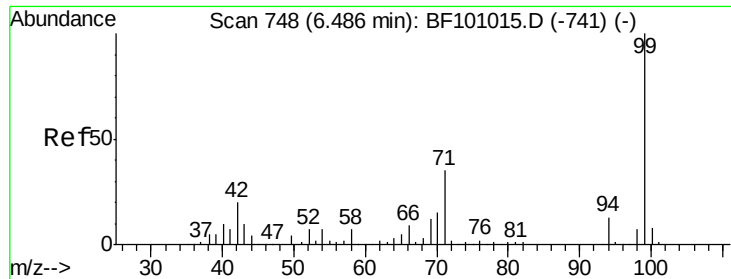
Abundance

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: 9.625 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF101158.D

Acq: 6 Dec 2017 9:51

Instrument :

BNA_F

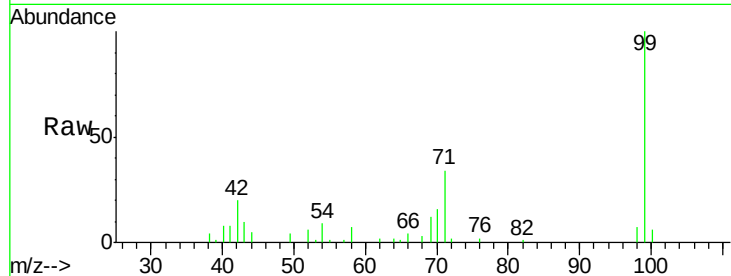
ClientSampled :

CS-TP-BANK-1DL

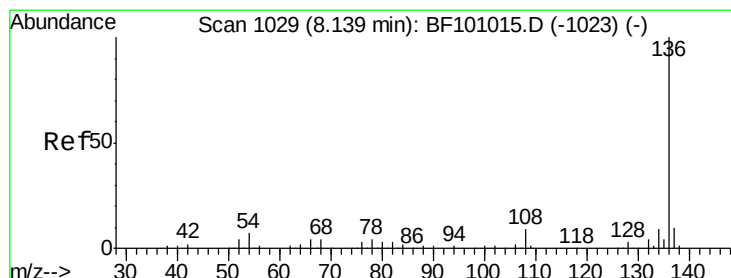
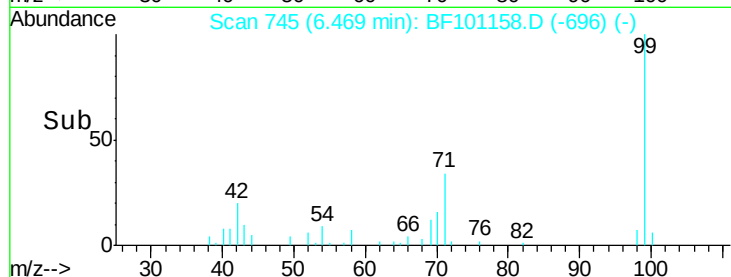
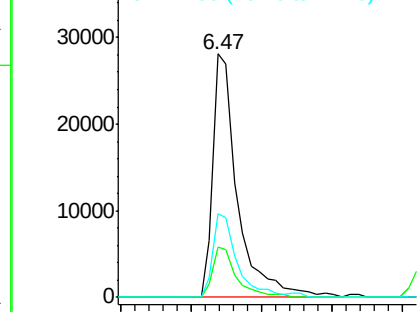
Tot Ion:	99	Resp:	34472
Ion Ratio	Lower	Upper	
99	100		
42	20.4	14.5	21.7
71	34.4	25.4	38.0

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

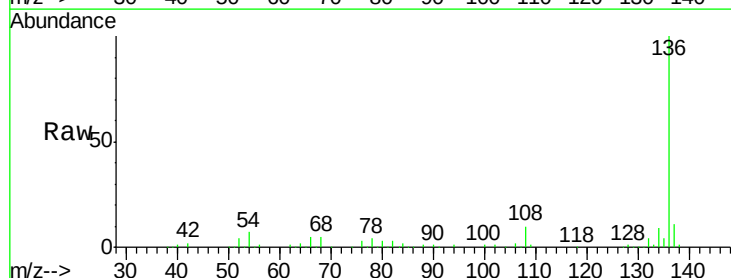
RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

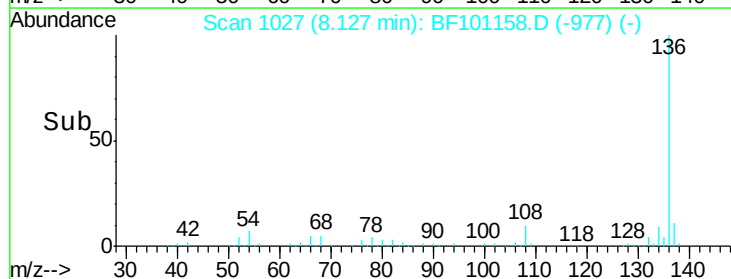
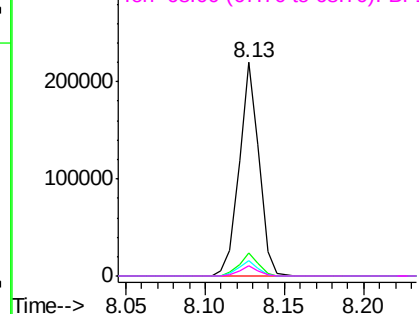
Lab File: BF101158.D

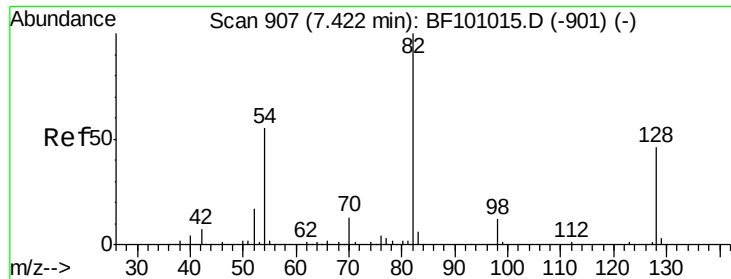
Acq: 6 Dec 2017 9:51

Tgt Ion:	136	Resp:	189609
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	7.5	6.6	9.8
68	4.7	5.0	7.4#



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





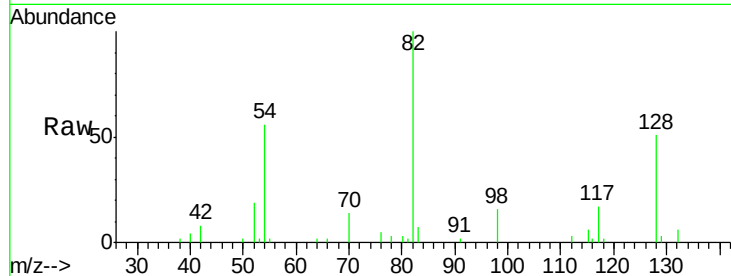
#23
 Nitrobenzene-d5
 Concen: 6.349 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.01 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

Instrument :
 BNA_F
 ClientSampleID :
 CS-TP-BANK-1DL

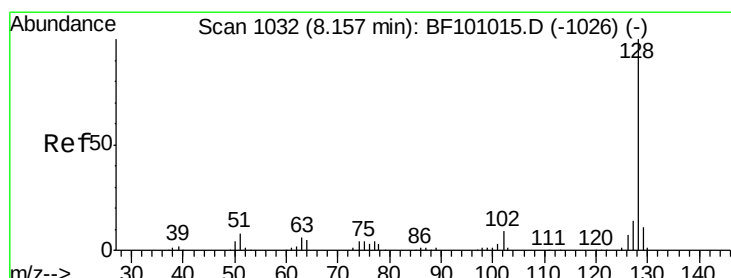
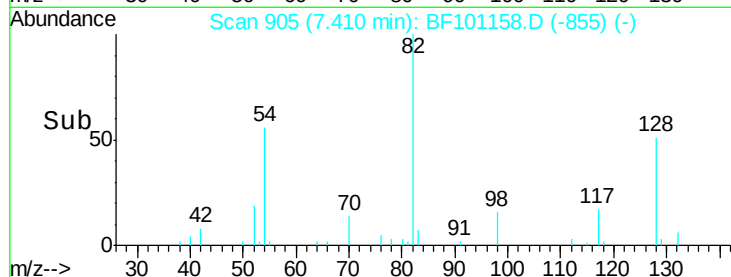
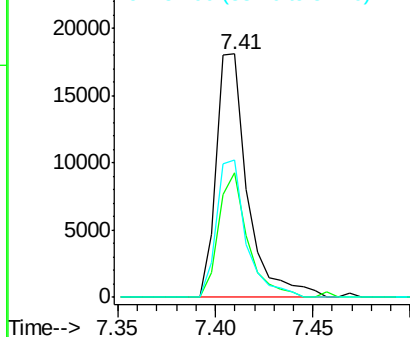
Tot Ion:	82	Resp:	20182
Ion Ratio	Lower	Upper	
82	100		
128	51.4	36.1	54.1
54	56.5	41.4	62.2

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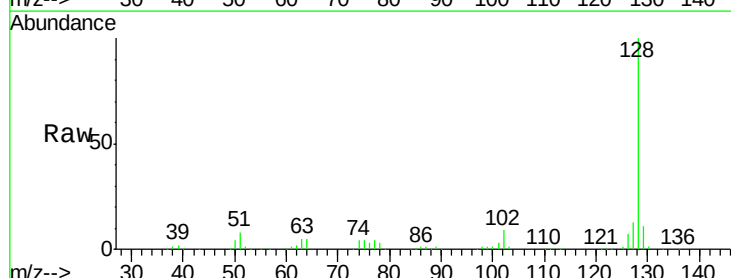


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

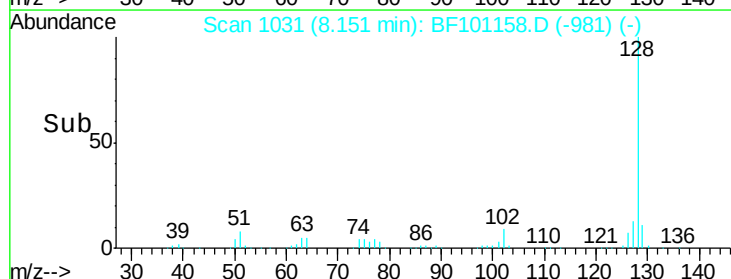
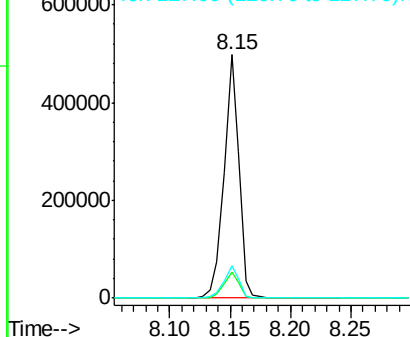


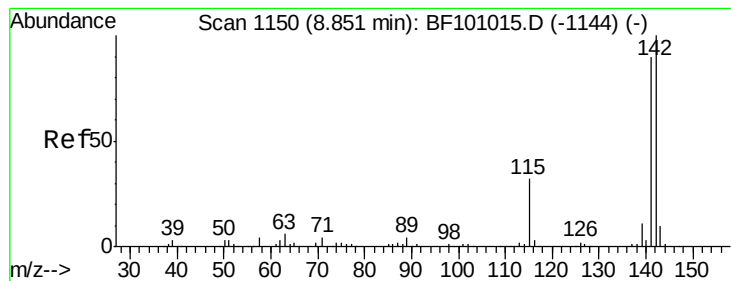
#31
 Naphthalene
 Concen: 45.339 ng
 RT: 8.15 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

Tgt Ion:	128	Resp:	423686
Ion Ratio	Lower	Upper	
128	100		
129	10.6	8.8	13.2
127	13.3	10.9	16.3



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





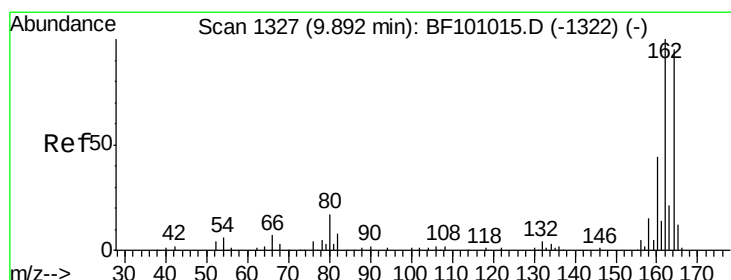
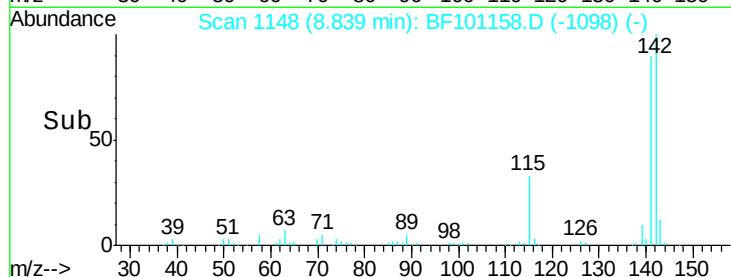
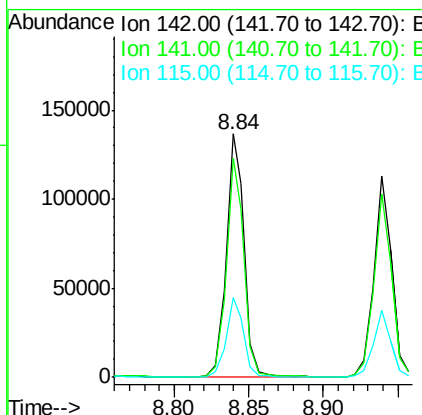
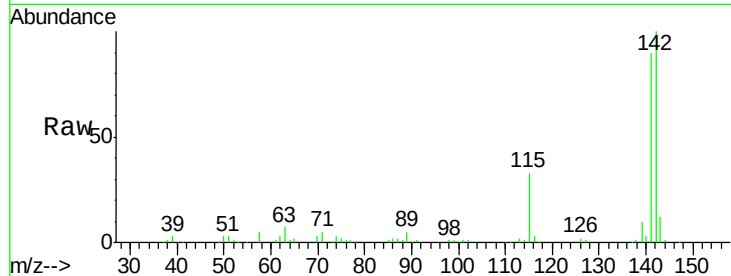
#37
2-Methylnaphthalene
Concen: 18.299 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-1DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	116192		
141	90.0	70.8	106.2	
115	32.8	26.1	39.1	

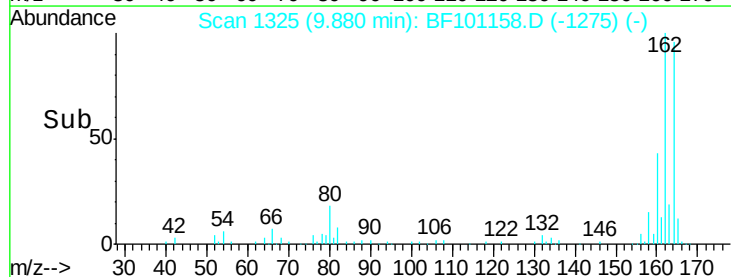
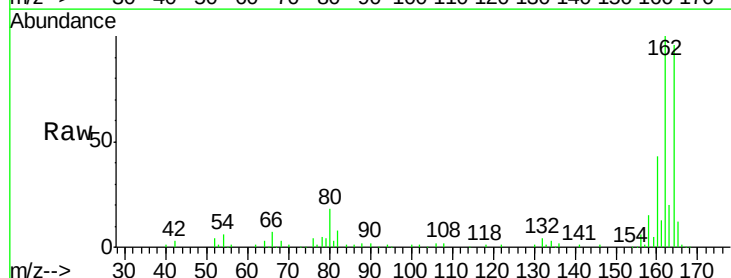
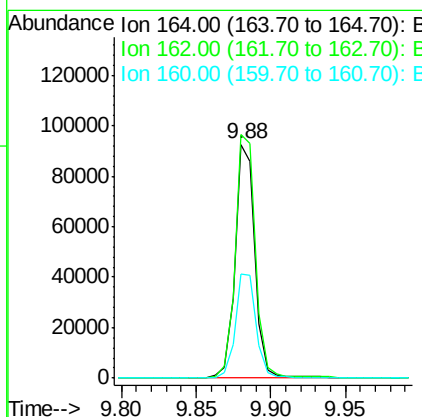
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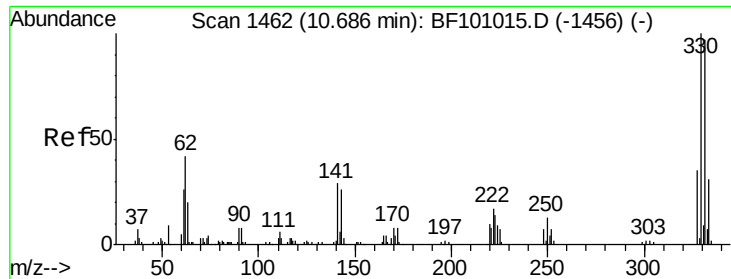
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	86688		
162	104.1	86.1	129.1	
160	44.7	38.3	57.5	





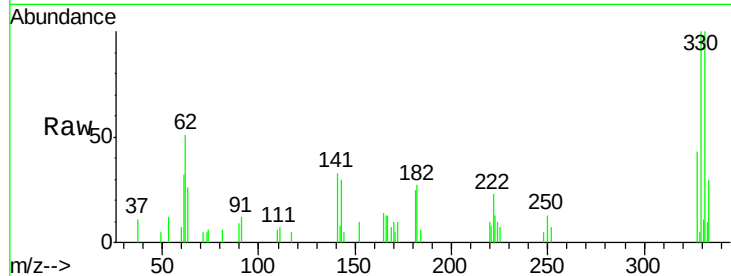
#41
 2,4,6-Tribromophenol
 Concen: 6.429 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP-BANK-1DL

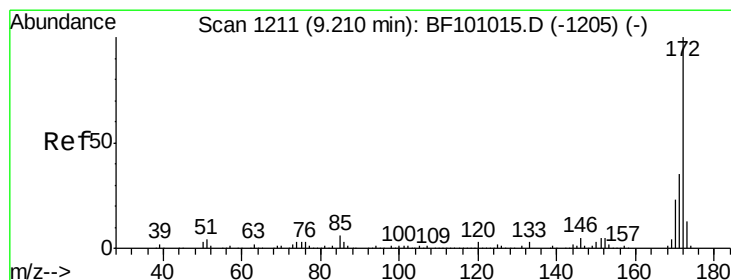
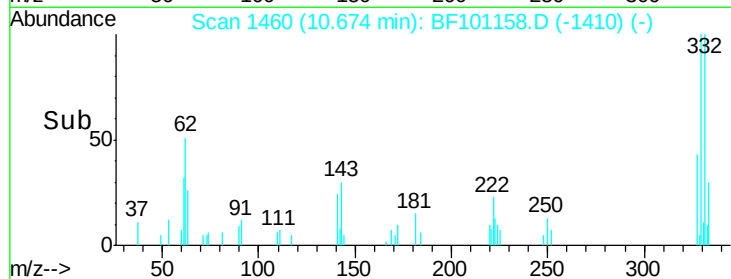
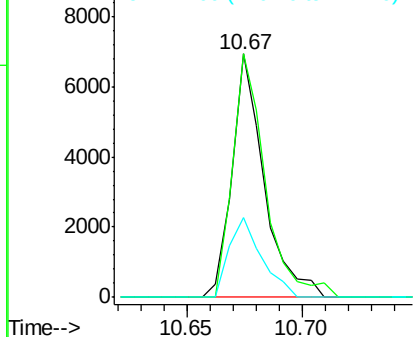
Tot Ion	Ratio	Lower	Upper
330	100		
332	102.2	77.0	115.6
141	33.2	29.9	44.9

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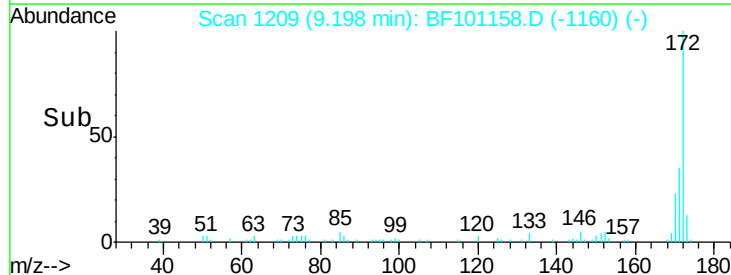
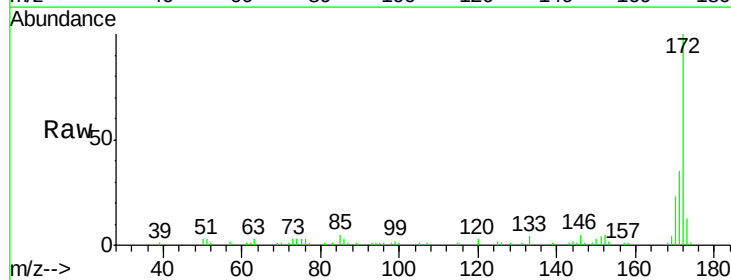
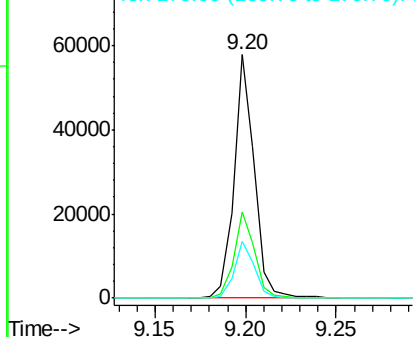
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

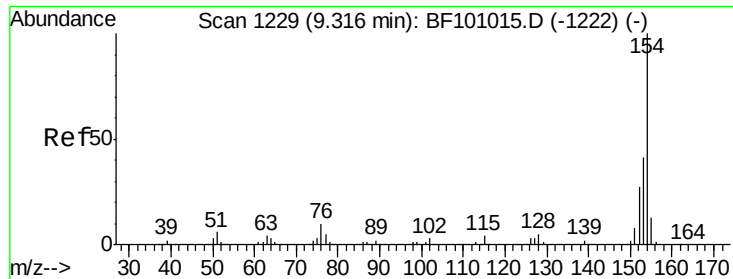


#44
 2-Fluorobiphenyl
 Concen: 7.107 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.7	44.5
170	23.1	19.6	29.4

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





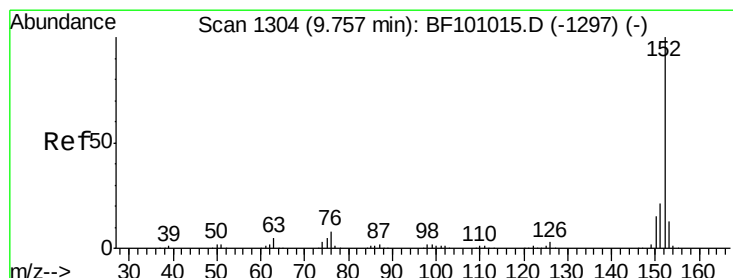
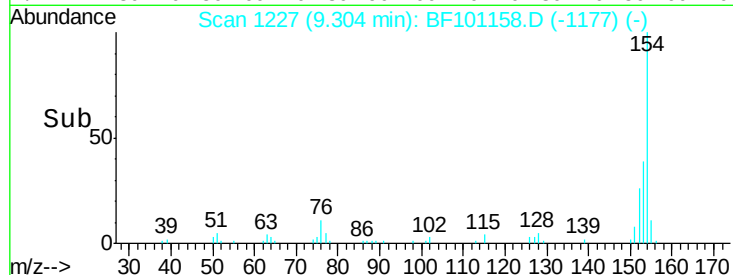
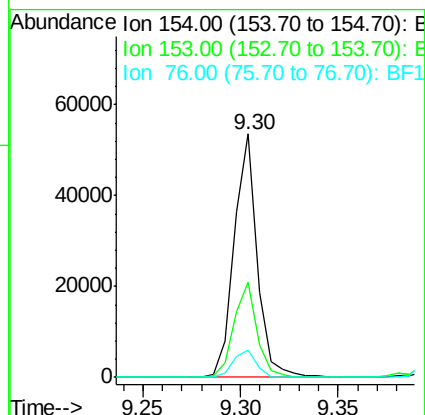
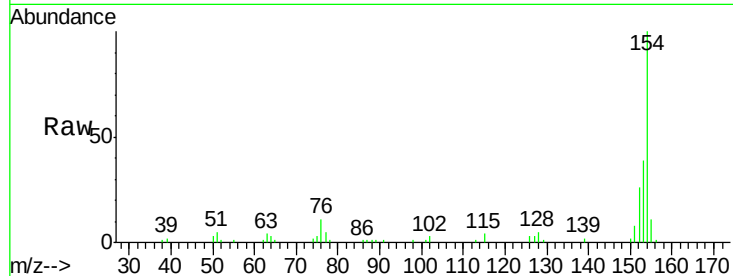
#45
1,1'-Biphenyl
Concen: 5.541 ng
RT: 9.30 min Scan# 1227
Delta R.T. -0.01 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-1DL

Tot Ion	Ratio	Resp	Lower	Upper
154	100	44010		
153	38.9	21.3	61.3	
76	11.1	0.0	34.0	

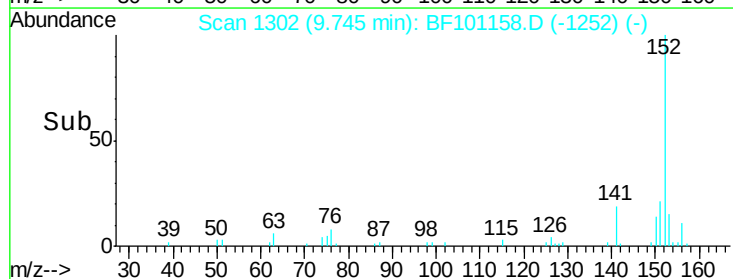
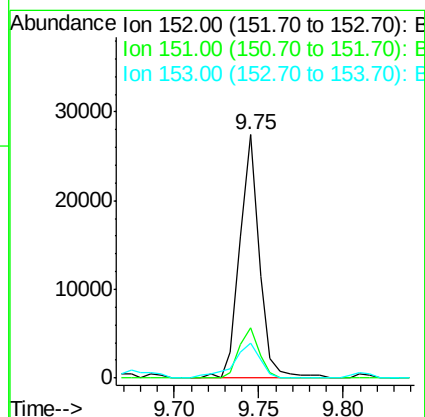
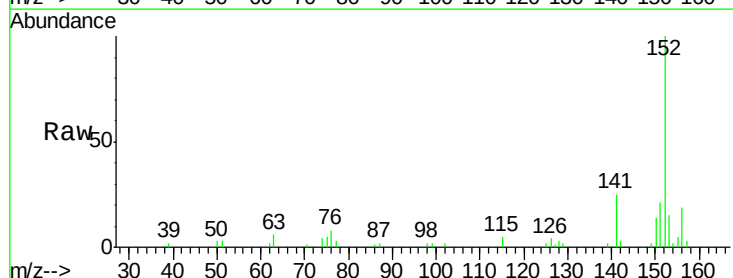
Manual Integrations
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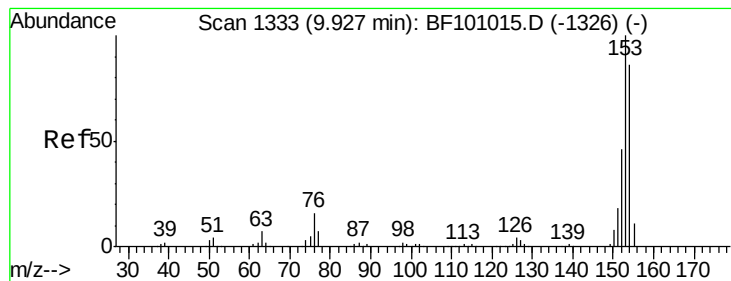
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#48
Acenaphthylene
Concen: 2.383 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	22090		
151	20.5	16.3	24.5	
153	14.6	10.7	16.1	





#51

Acenaphthene

Concen: 22.814 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF101158.D

Acq: 6 Dec 2017 9:51

Instrument :

BNA_F

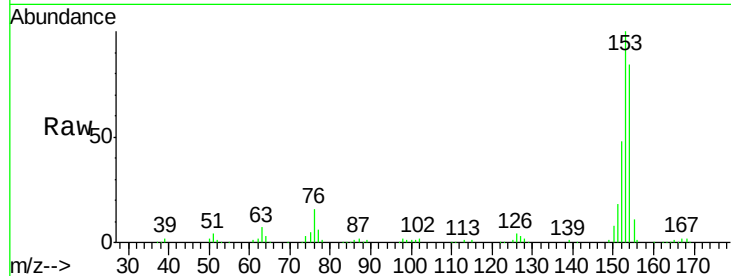
ClientSampleId :

CS-TP-BANK-1DL

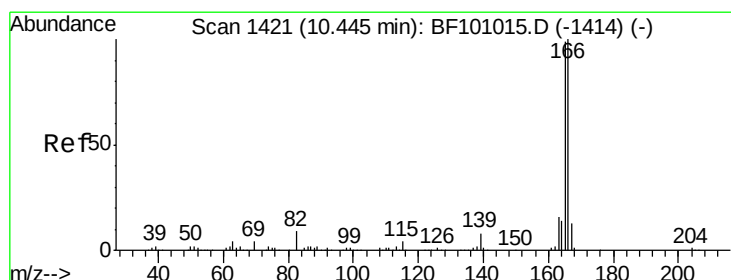
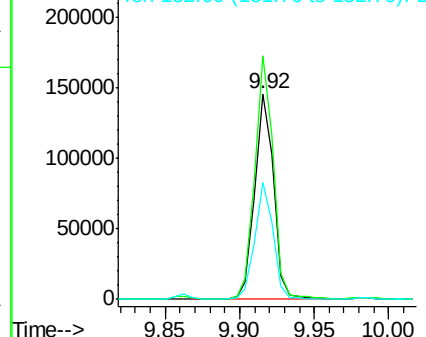
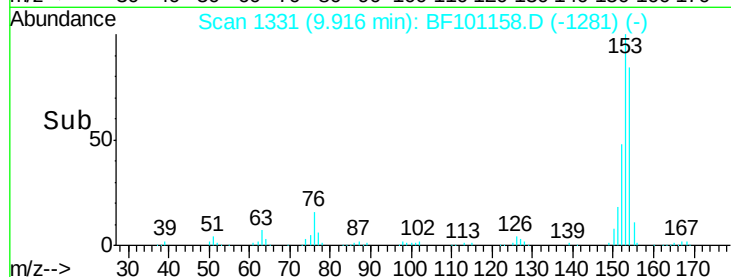
Tot Ion:	154	Resp:	126632
Ion Ratio	Lower	Upper	
154	100		
153	118.6	91.2	136.8
152	56.9	43.8	65.8

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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: 11.392 ng

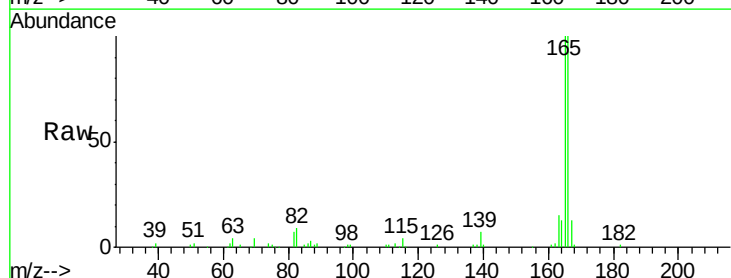
RT: 10.43 min Scan# 1419

Delta R.T. -0.01 min

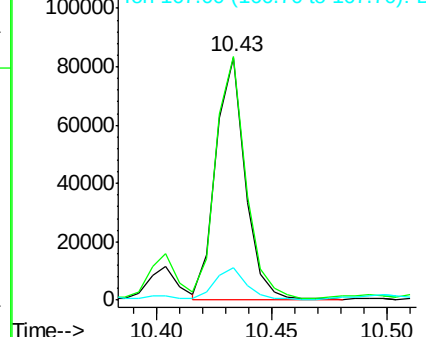
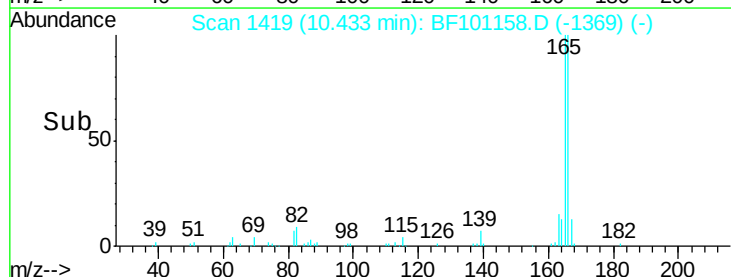
Lab File: BF101158.D

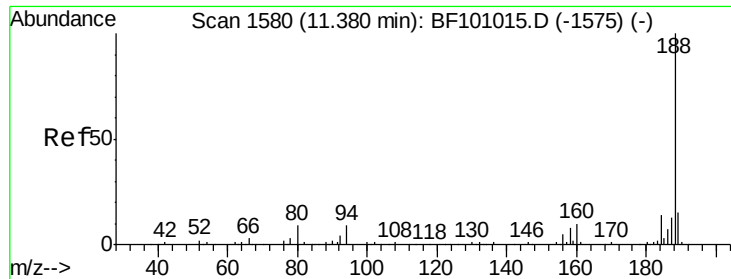
Acq: 6 Dec 2017 9:51

Tgt Ion:	166	Resp:	74074
Ion Ratio	Lower	Upper	
166	100		
165	100.3	79.8	119.8
167	13.2	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





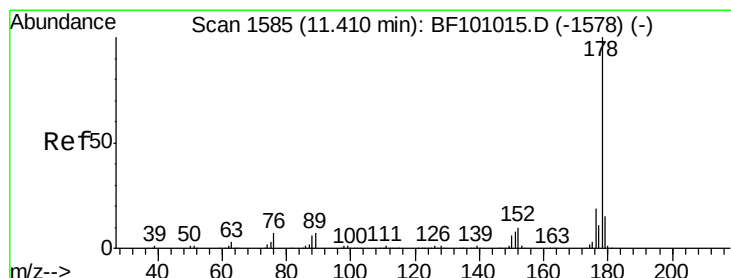
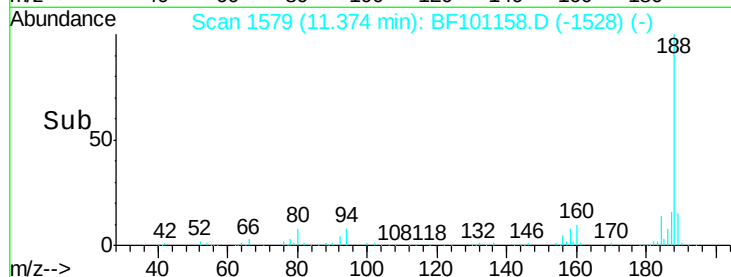
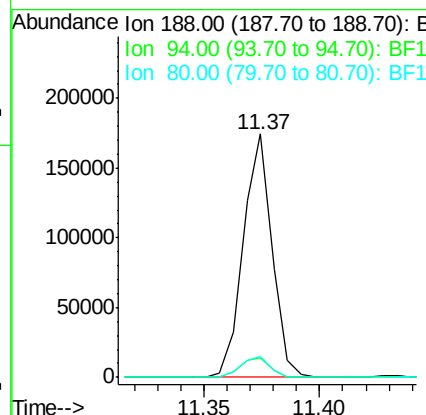
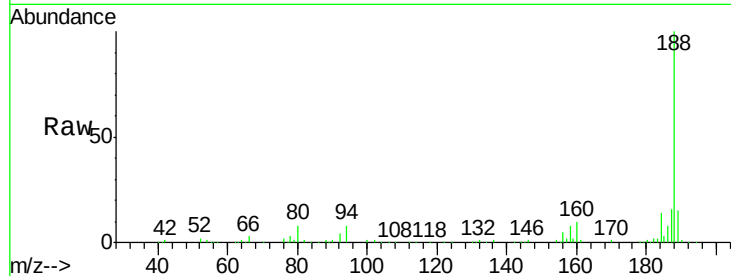
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-1DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.0	8.5	12.7#
80	8.5	9.2	13.8#

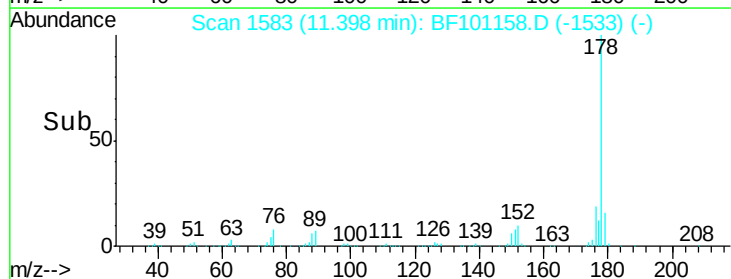
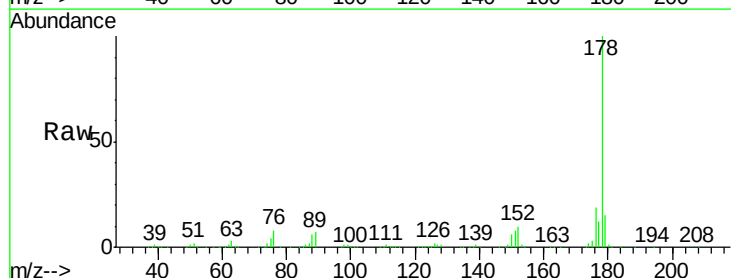
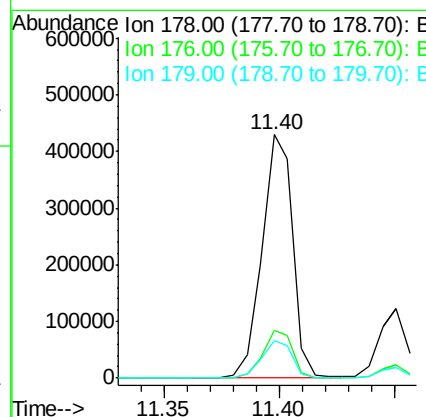
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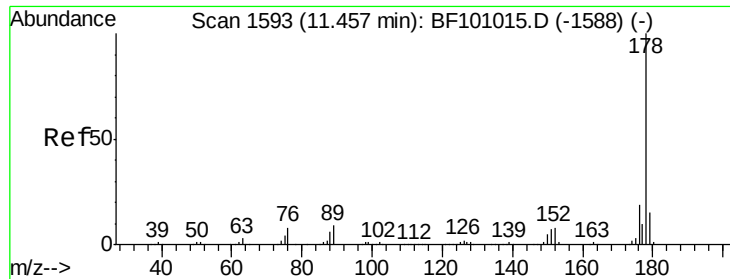
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#70
Phenanthrene
Concen: 47.446 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.5	13.0	19.6





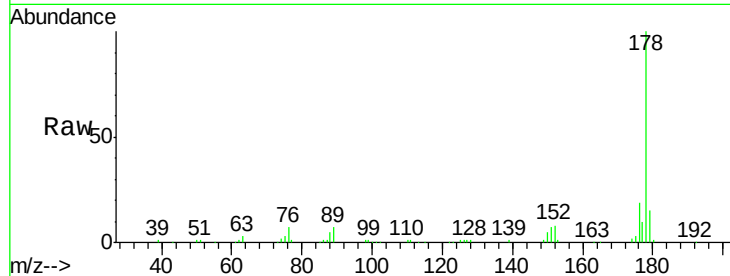
#71
 Anthracene
 Concen: 12.194 ng
 RT: 11.45 min Scan# 1592
 Delta R.T. 0.00 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP-BANK-1DL

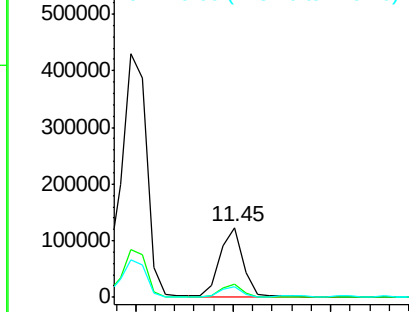
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	14.6	12.6	19.0

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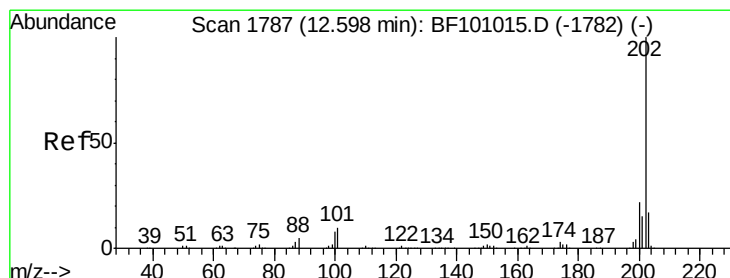
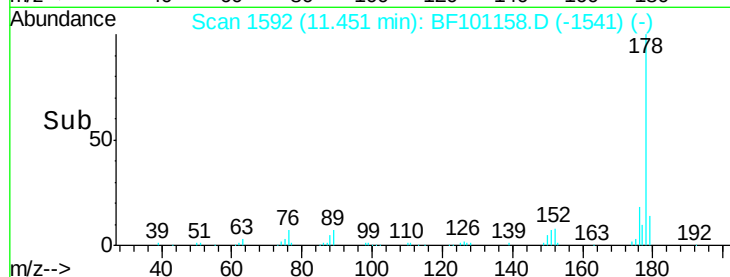
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Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E



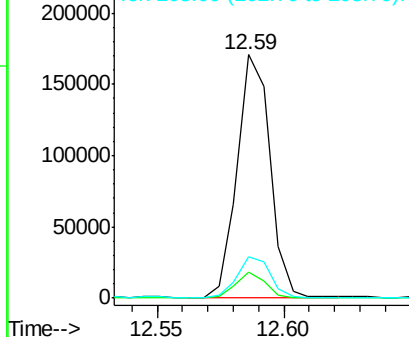
Time-->



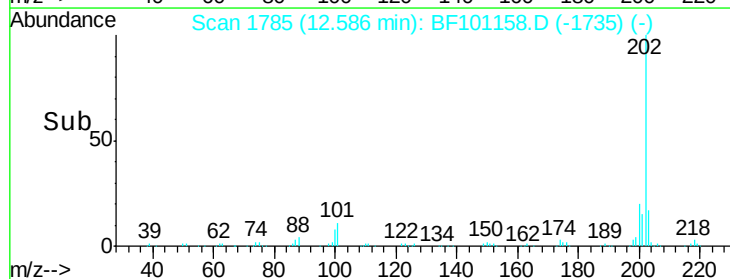
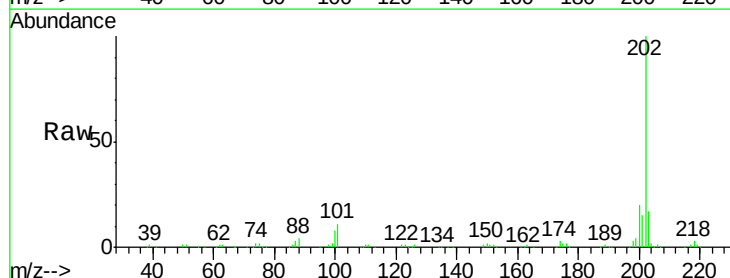
#74
 Fluoranthene
 Concen: 16.709 ng
 RT: 12.59 min Scan# 1785
 Delta R.T. -0.01 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

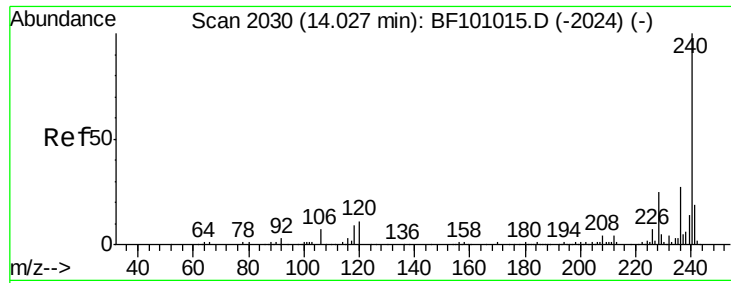
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	34.1
203	16.9	0.0	38.1

Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E



Time-->





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF101158.D

Acq: 6 Dec 2017 9:51

Instrument :

BNA_F

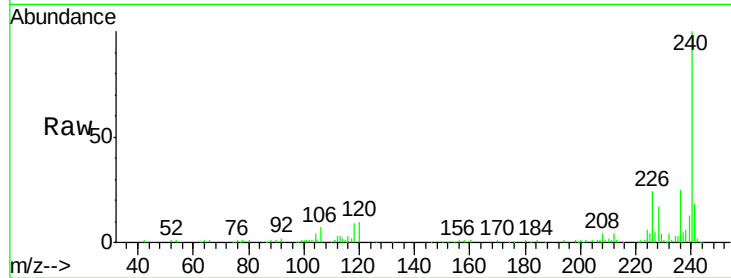
ClientSampleId :

CS-TP-BANK-1DL

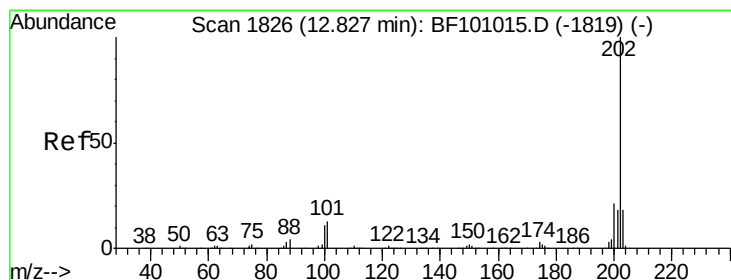
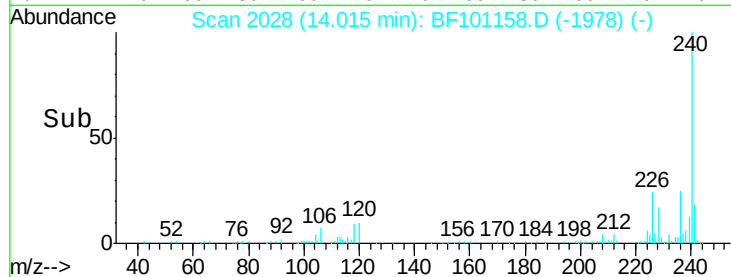
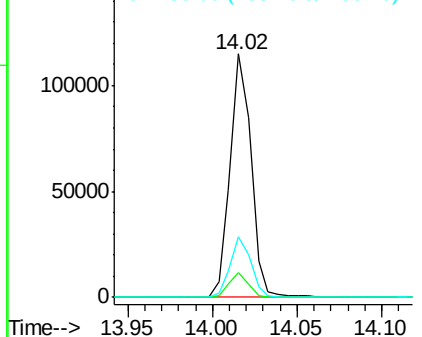
Tot Ion:	240	Resp:	99307
Ion Ratio	Lower	Upper	
240	100		
120	10.4	9.5	14.3
236	25.0	20.7	31.1

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 31.572 ng

RT: 12.82 min Scan# 1825

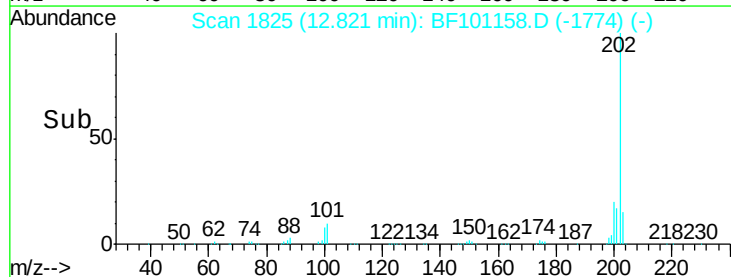
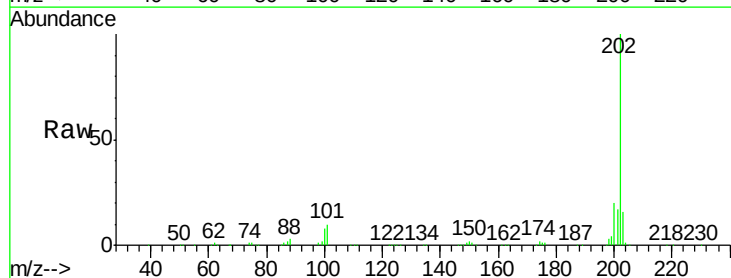
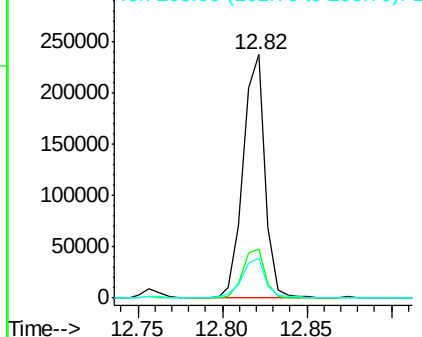
Delta R.T. 0.00 min

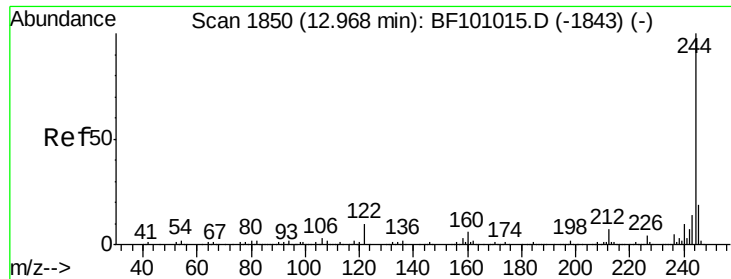
Lab File: BF101158.D

Acq: 6 Dec 2017 9:51

Tgt Ion:	202	Resp:	216349
Ion Ratio	Lower	Upper	
202	100		
200	19.9	17.4	26.2
203	16.4	14.3	21.5

Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





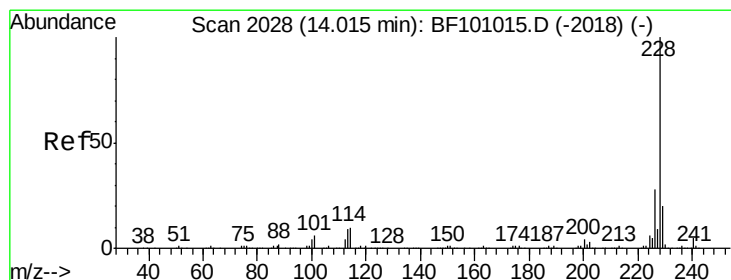
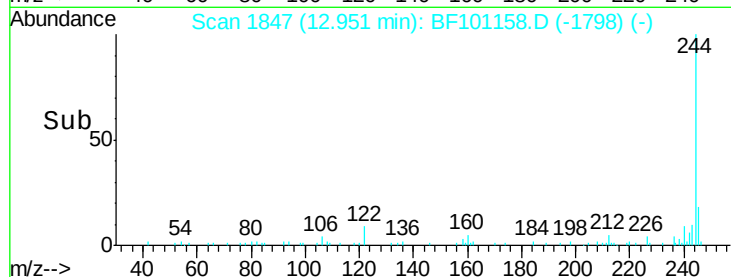
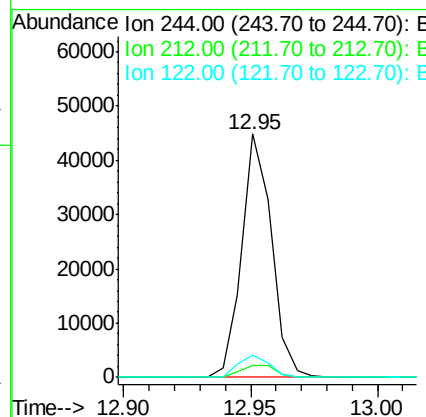
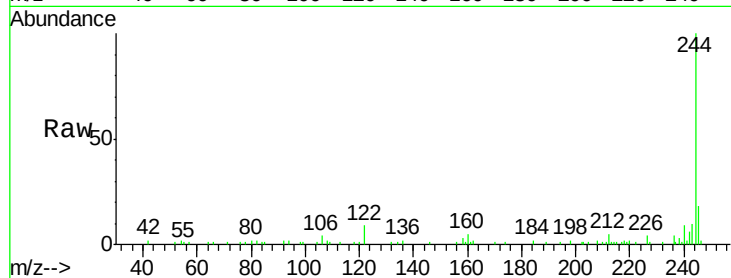
#78
 Terphenyl-d14
 Concen: 8.053 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP-BANK-1DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	5.1	5.4	8.0#
122	8.9	11.0	16.4#

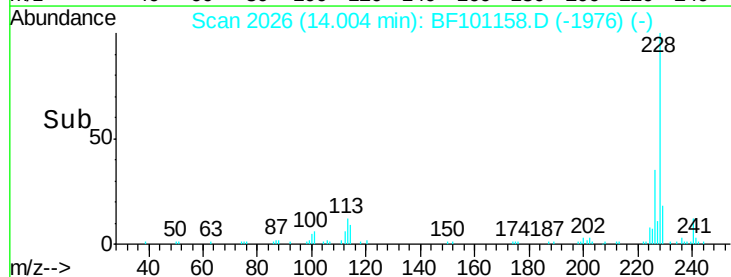
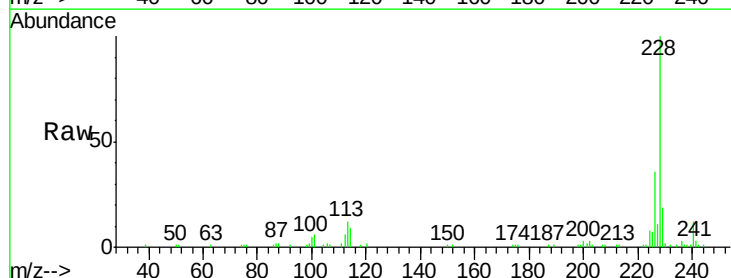
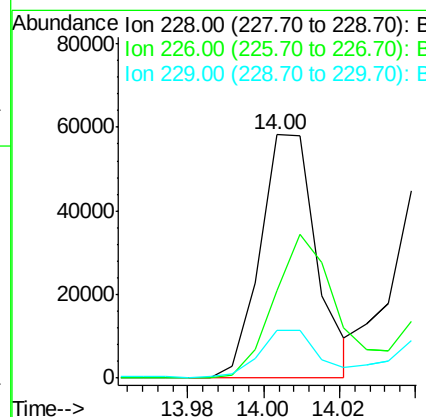
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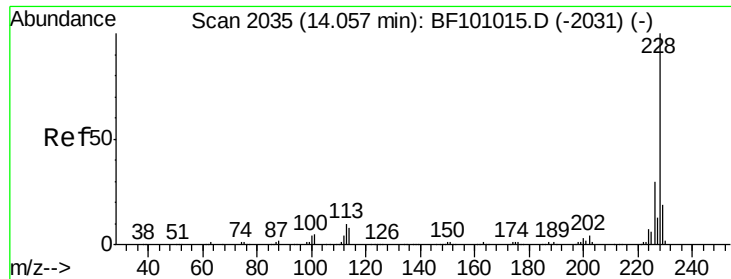
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#80
 Benzo(a)anthracene
 Concen: 9.607 ng m
 RT: 14.00 min Scan# 2026
 Delta R.T. -0.01 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.9	22.6	33.8#
229	19.4	15.8	23.6





#82

Chrysene

Concen: 8.491 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF101158.D

Acq: 6 Dec 2017 9:51

Instrument :

BNA_F

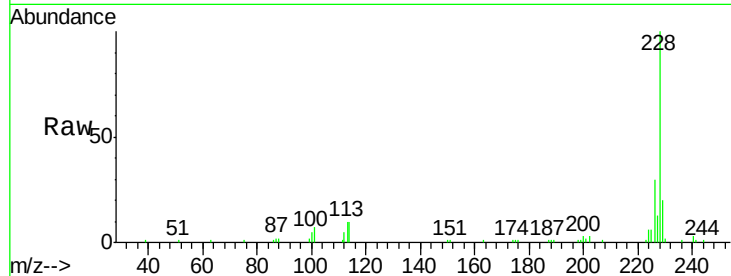
ClientSampleId :

CS-TP-BANK-1DL

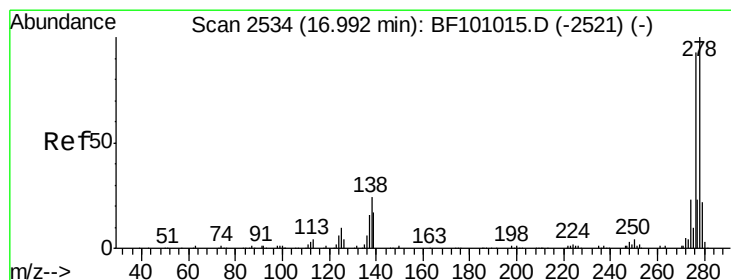
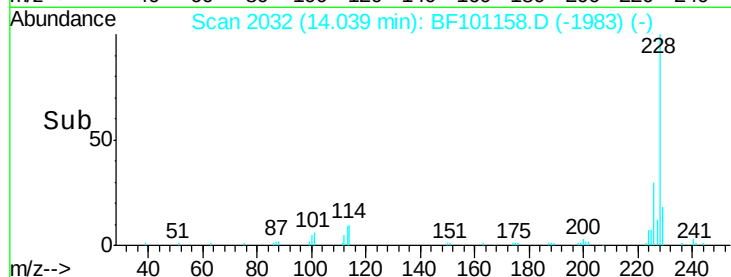
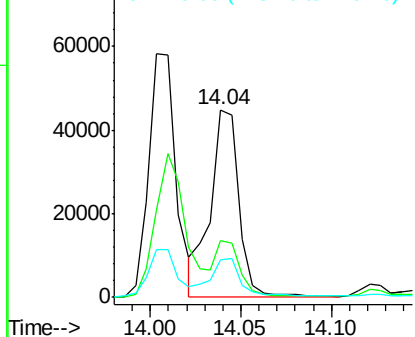
Tot Ion:	228	Resp:	49442
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.0	37.6
229	20.4	16.2	24.4

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.728 ng

RT: 16.97 min Scan# 2531

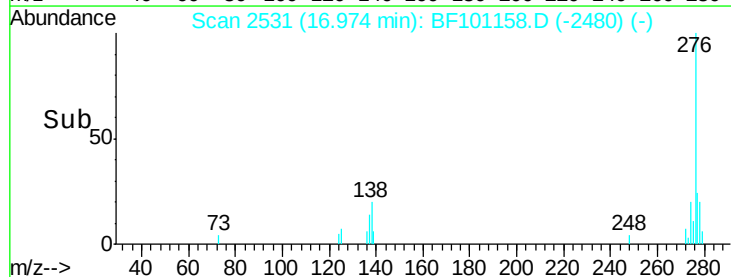
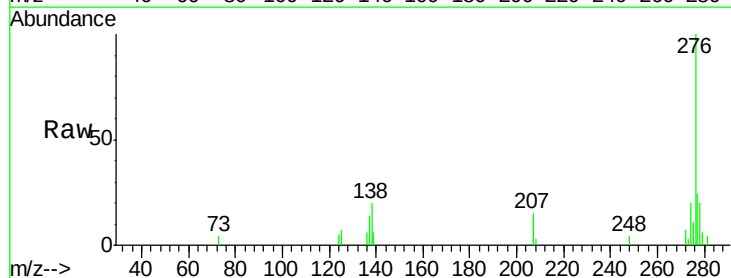
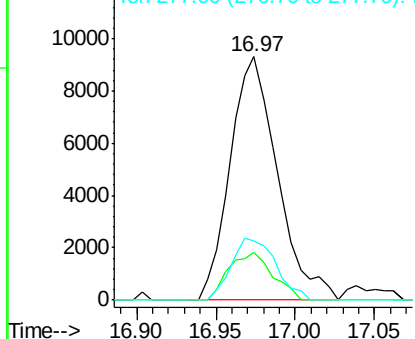
Delta R.T. 0.00 min

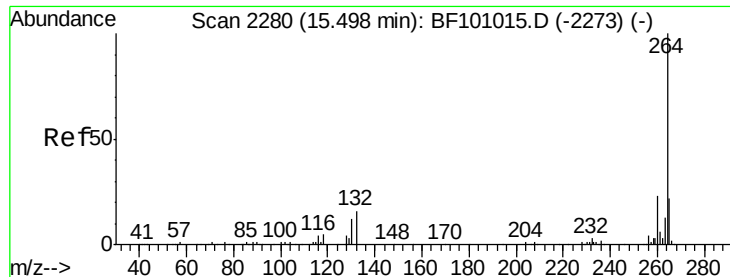
Lab File: BF101158.D

Acq: 6 Dec 2017 9:51

Tgt Ion:	276	Resp:	19300
Ion Ratio	Lower	Upper	
276	100		
138	18.1	25.0	37.6#
277	23.8	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





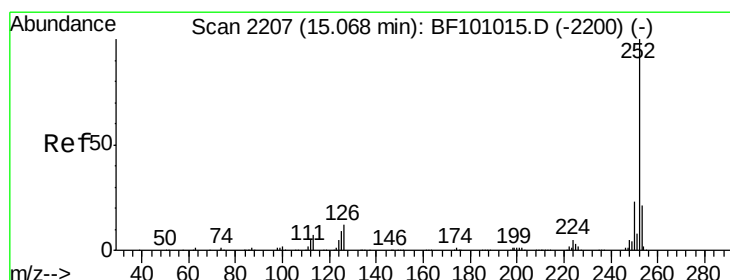
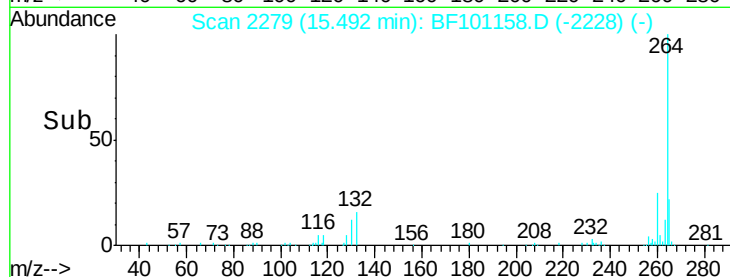
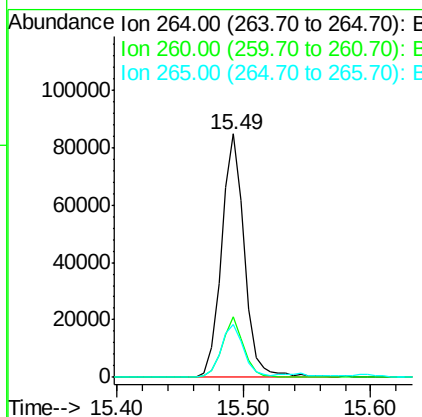
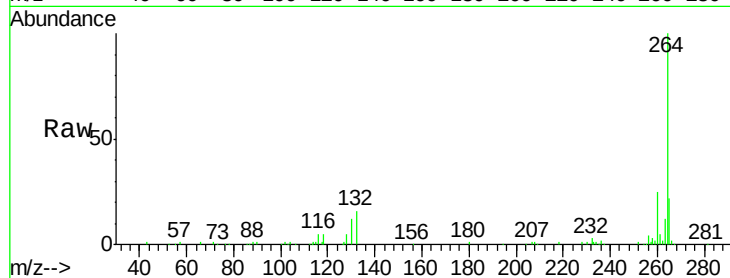
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-1DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	21.8	17.5	26.3

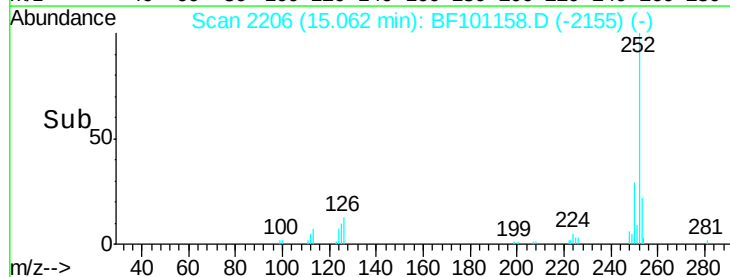
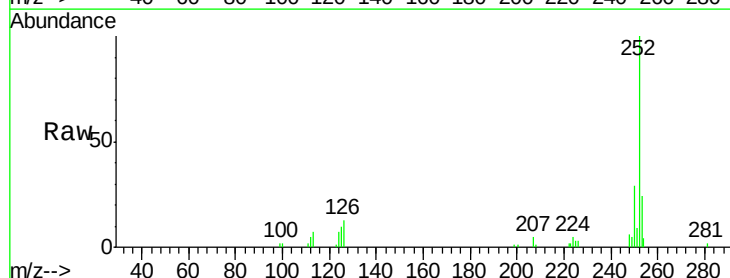
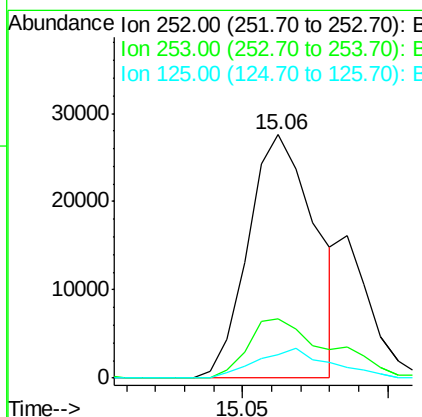
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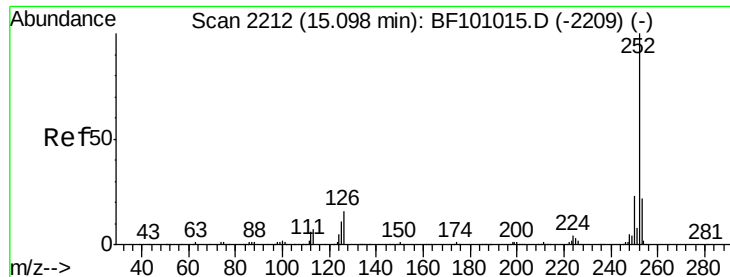
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#87
Benzo(b)fluoranthene
Concen: 7.045 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.00 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.0	25.6
125	9.6	9.0	13.6





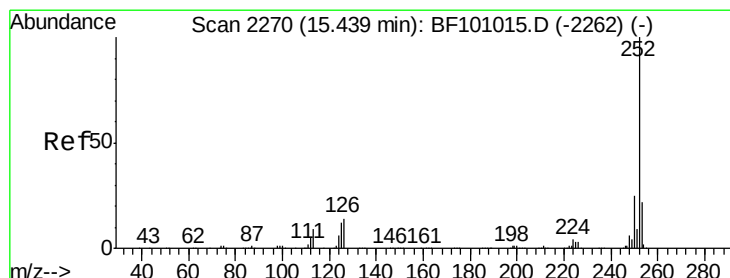
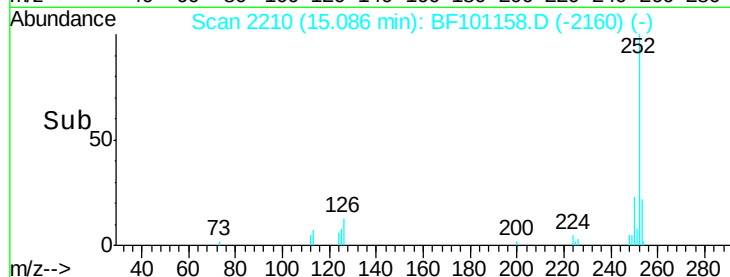
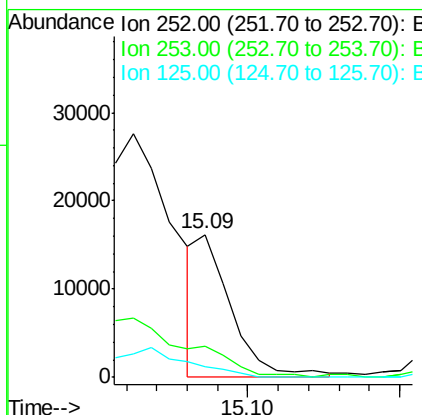
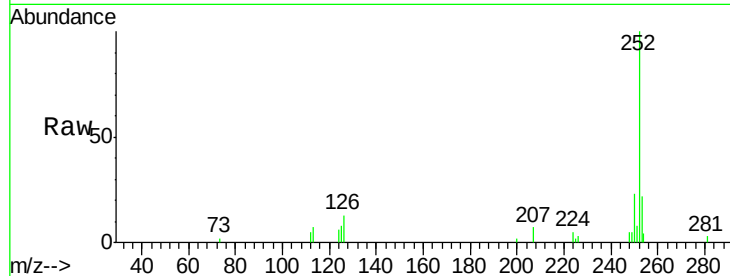
#88
Benzo(k)fluoranthene
Concen: 2.050 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Instrument :
BNA_F
ClientSampleId :
CS-TP-BANK-1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.9	26.9
125	7.6	10.2	15.2

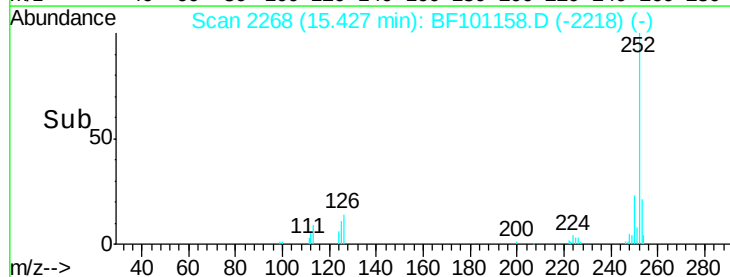
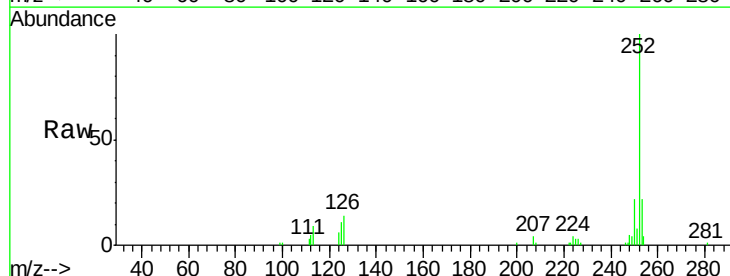
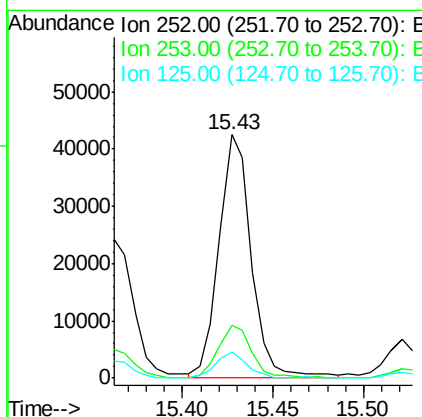
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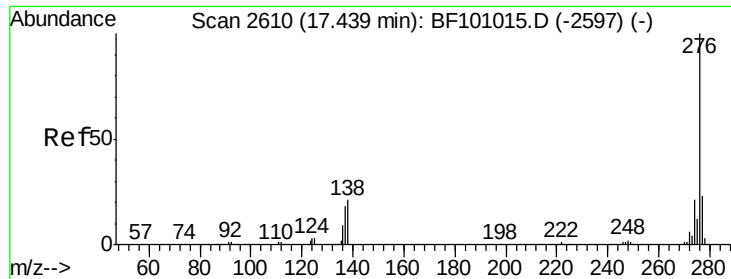
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#89
Benzo(a)pyrene
Concen: 9.250 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF101158.D
Acq: 6 Dec 2017 9:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	10.8	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 4.292 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. -0.01 min
 Lab File: BF101158.D
 Acq: 6 Dec 2017 9:51

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP-BANK-1DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.0	17.9	26.9
138	19.2	21.8	32.8

Manual Integrations
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