

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122117\
 Data File : BF101612.D
 Acq On : 21 Dec 2017 17:39
 Operator : SJ/JU
 Sample : I6993-02 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-4

Quant Time: Dec 21 18:12:15 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 20 14:25:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	115646	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	436516	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	160044	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	257979	20.00	ng	0.00
75) Chrysene-d12	13.97	240	281344	20.00	ng	0.00
86) Perylene-d12	15.44	264	237174	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	15330	1.97	ng	0.06
7) Phenol-d6	6.49	99	20404	2.11	ng	0.05
23) Nitrobenzene-d5	7.39	82	12252	1.56	ng	0.02
41) 2,4,6-Tribromophenol	10.64	330	2542	1.65	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	21926	2.13	ng	0.00
78) Terphenyl-d14	12.90	244	18398	1.58	ng	0.00

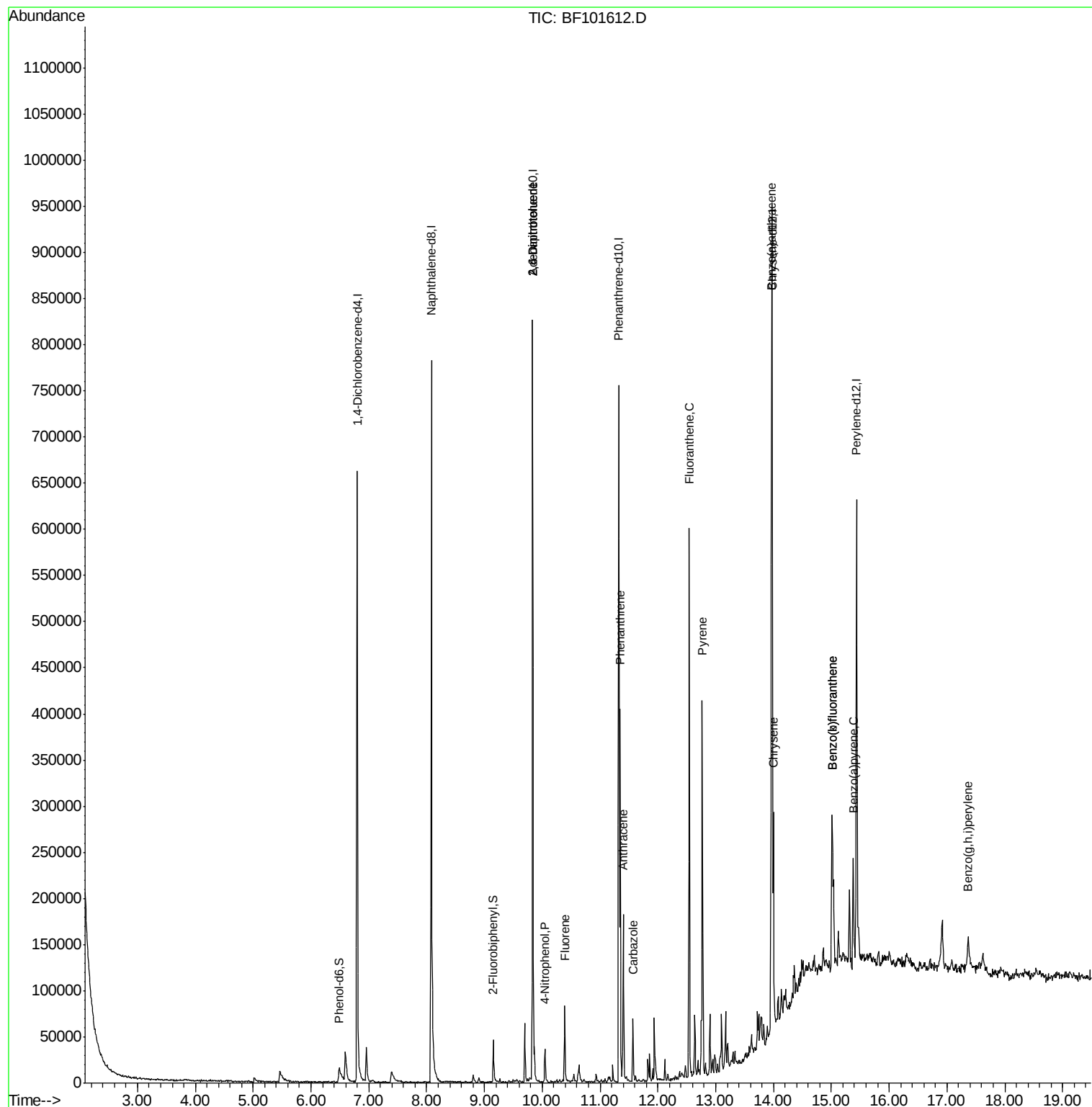
Target Compounds				Qvalue		
50) 2,6-Dinitrotoluene	9.83	165	19855	7.589	ng	# 26
55) 4-Nitrophenol	10.05	139	7107	4.997	ng	# 9
56) 2,4-Dinitrotoluene	9.83	165	19855	6.735	ng	# 24
57) Fluorene	10.39	166	28638	2.585	ng	97
70) Phenanthrene	11.35	178	158816	11.070	ng	98
71) Anthracene	11.40	178	81178	5.539	ng	97
72) Carbazole	11.57	167	31032	2.262	ng	98
74) Fluoranthene	12.54	202	230676	15.318	ng	98
77) Pyrene	12.77	202	176822	8.374	ng	98
80) Benzo(a)anthracene	13.96	228	102637	5.525	ng	99
82) Chrysene	14.00	228	80809	4.607	ng	98
87) Benzo(b)fluoranthene	15.02	252	125196	8.660	ng	97
88) Benzo(k)fluoranthene	15.02	252	125196	8.907	ng	99
89) Benzo(a)pyrene	15.38	252	61471	4.613	ng	96
91) Benzo(g,h,i)perylene	17.37	276	27832	2.456	ng	# 91

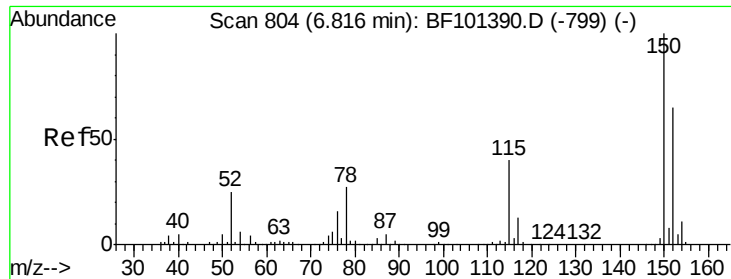
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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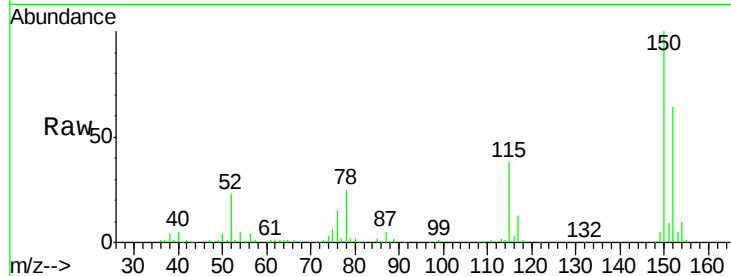


#1

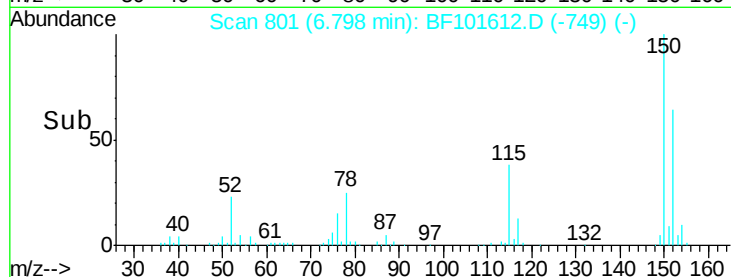
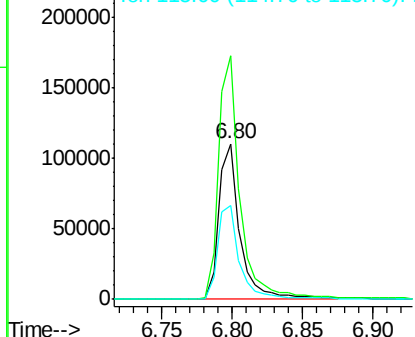
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. 0.01 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-4

Tgt Ion:152 Resp: 115646
Ion Ratio Lower Upper
152 100
150 156.3 124.6 186.8
115 60.0 50.1 75.1



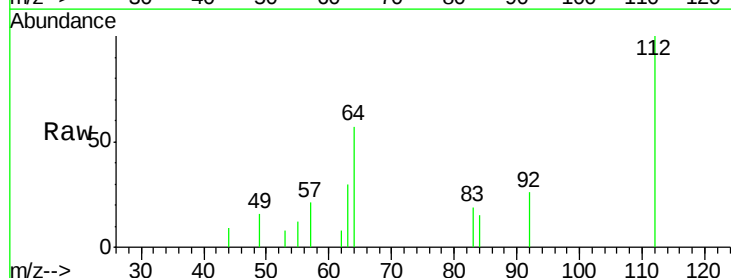
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



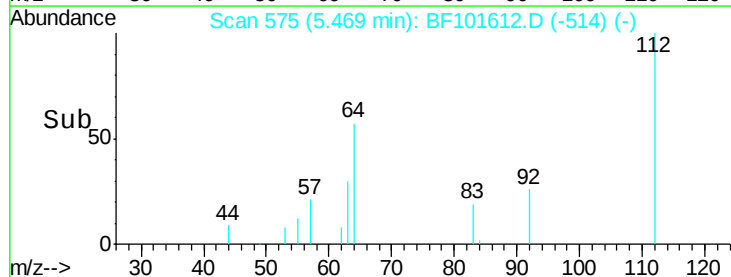
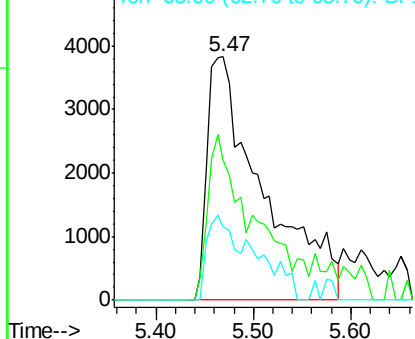
#5

2-Fluorophenol
Concen: 1.975 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.06 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

Tgt Ion:112 Resp: 15330
Ion Ratio Lower Upper
112 100
64 57.5 47.9 71.9
63 30.2 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: 2.112 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.05 min

Lab File: BF101612.D

Acq: 21 Dec 2017 17:39

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-4

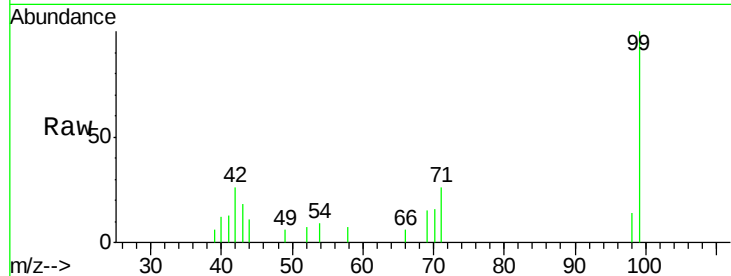
Tgt Ion: 99 Resp: 20404

Ion Ratio Lower Upper

99 100

42 25.8 14.5 21.7#

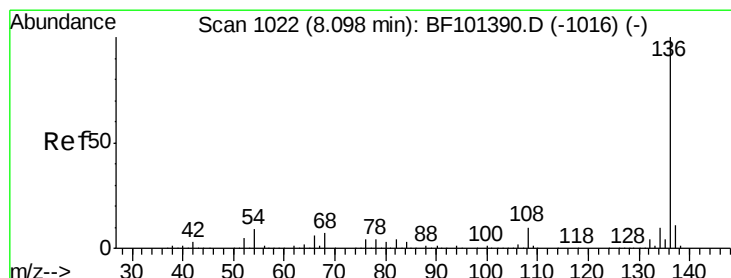
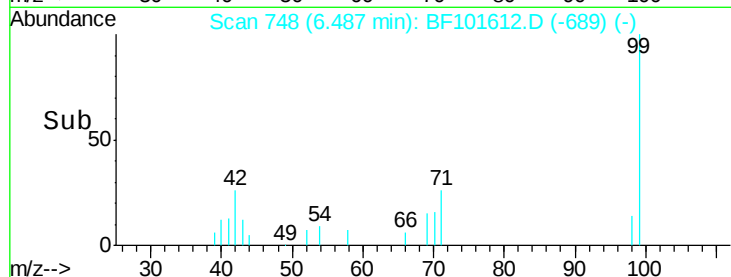
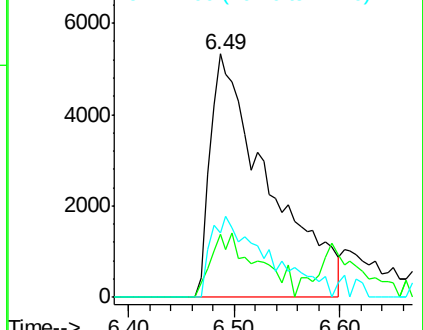
71 26.4 25.4 38.0



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: 8.08 min Scan# 1019

Delta R.T. 0.00 min

Lab File: BF101612.D

Acq: 21 Dec 2017 17:39

Tgt Ion: 136 Resp: 436516

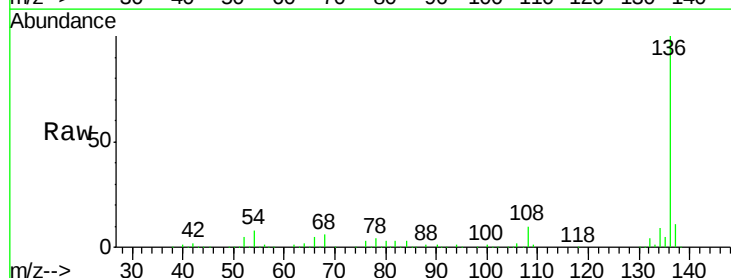
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.4 6.6 9.8

68 5.9 5.0 7.4

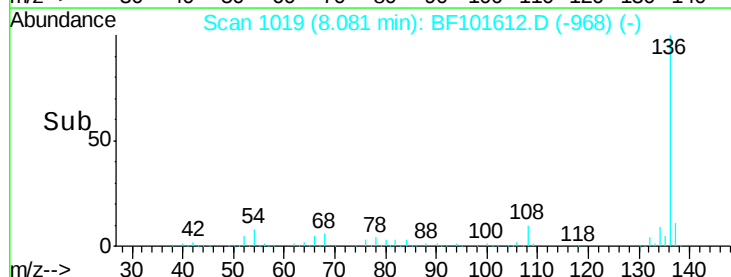
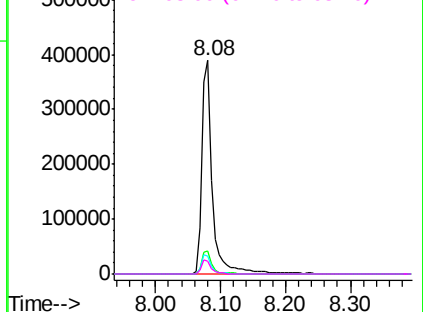


Abundance Ion 136.00 (135.70 to 136.70): E

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

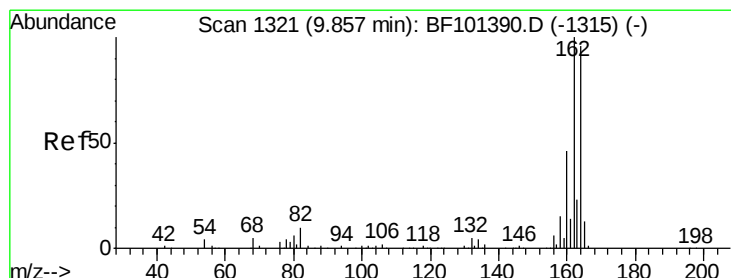
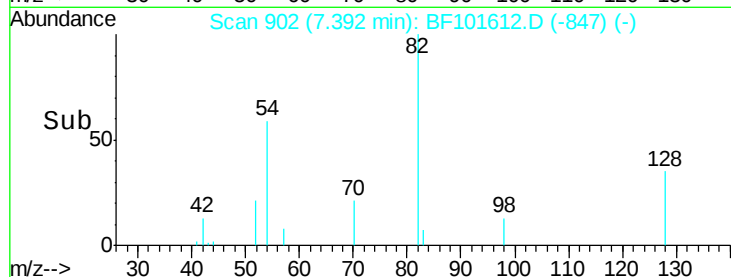
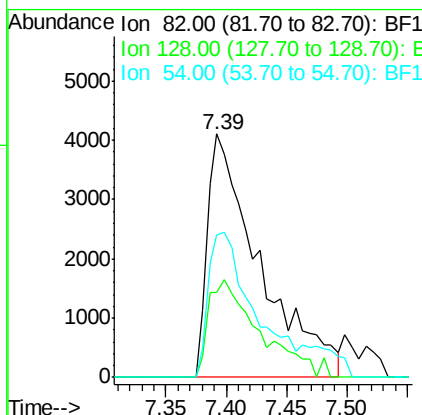
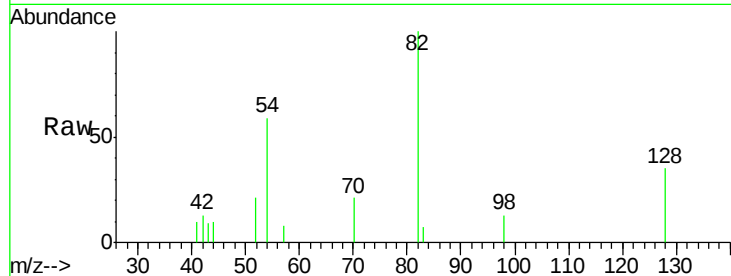




#23
 Nitrobenzene-d5
 Concen: 1.562 ng
 RT: 7.39 min Scan# 902
 Delta R.T. 0.02 min
 Lab File: BF101612.D
 Acq: 21 Dec 2017 17:39

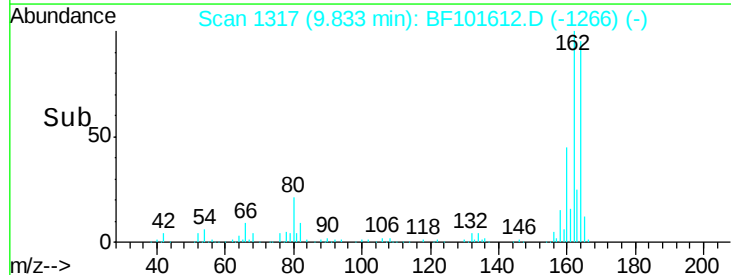
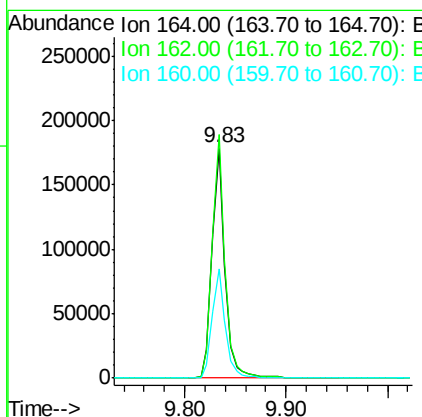
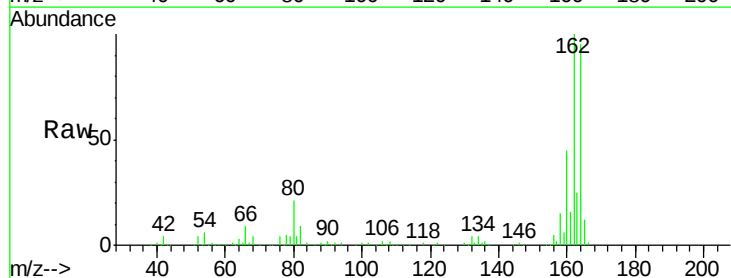
Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-4

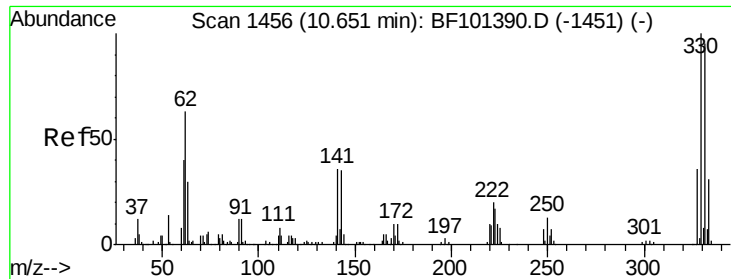
Tgt Ion: 82 Resp: 12252
 Ion Ratio Lower Upper
 82 100
 128 34.8 36.1 54.1#
 54 58.7 41.4 62.2



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. 0.00 min
 Lab File: BF101612.D
 Acq: 21 Dec 2017 17:39

Tgt Ion: 164 Resp: 160044
 Ion Ratio Lower Upper
 164 100
 162 105.8 86.1 129.1
 160 47.6 38.3 57.5

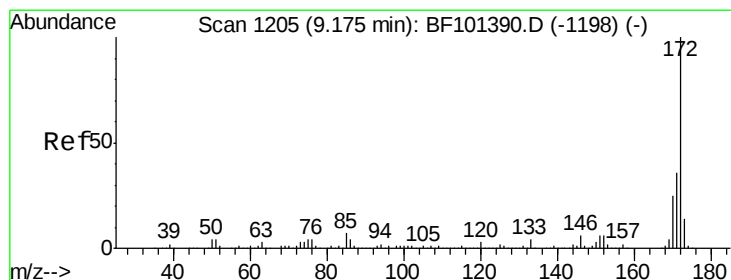
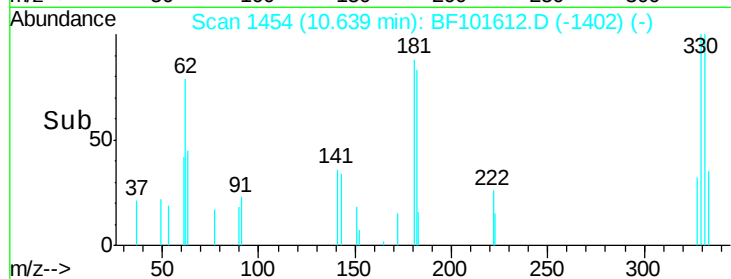
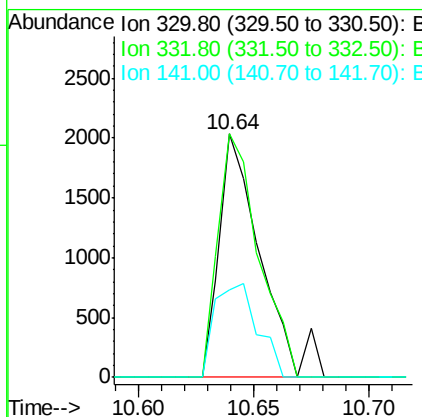
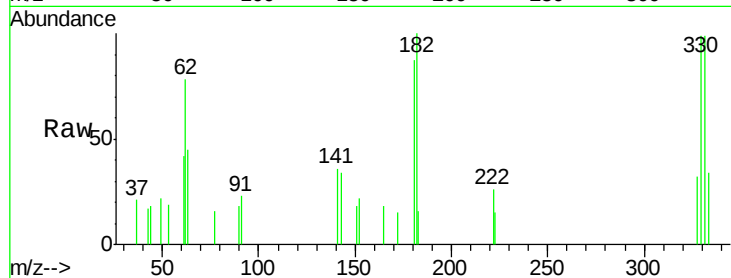




#41
 2,4,6-Tribromophenol
 Concen: 1.648 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. 0.01 min
 Lab File: BF101612.D
 Acq: 21 Dec 2017 17:39

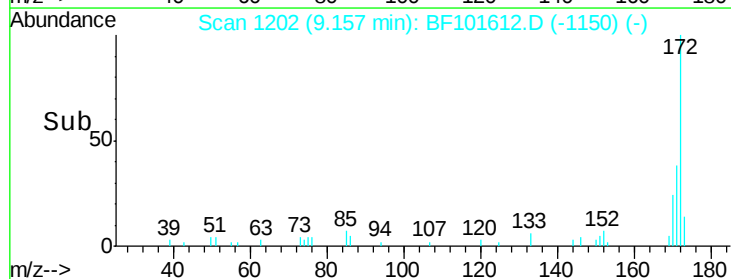
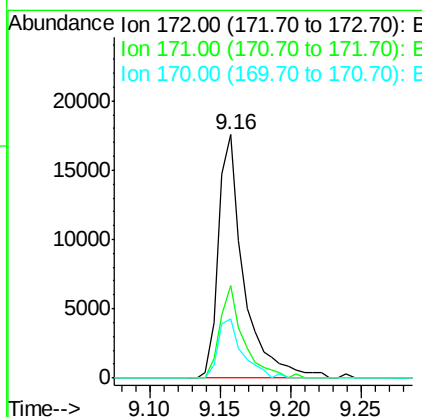
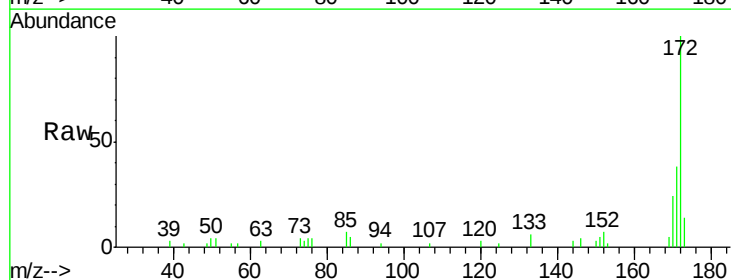
Instrument :
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 ClientSampleId :
 ROLL-OFF-4

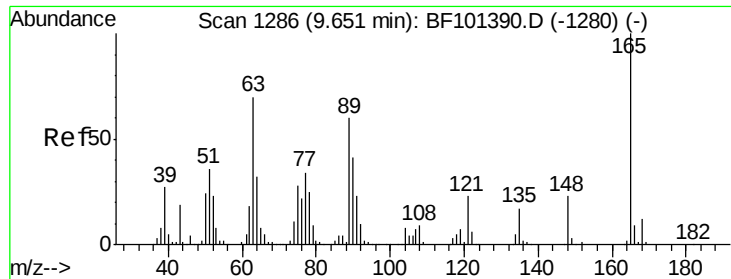
Tgt Ion: 330 Resp: 2542
 Ion Ratio Lower Upper
 330 100
 332 98.0 77.0 115.6
 141 39.5 29.9 44.9



#44
 2-Fluorobiphenyl
 Concen: 2.125 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: BF101612.D
 Acq: 21 Dec 2017 17:39

Tgt Ion: 172 Resp: 21926
 Ion Ratio Lower Upper
 172 100
 171 38.2 29.7 44.5
 170 24.3 19.6 29.4

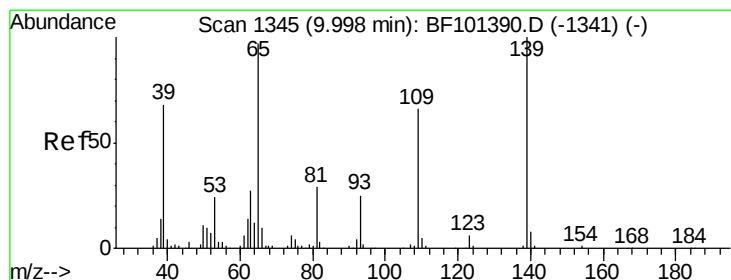
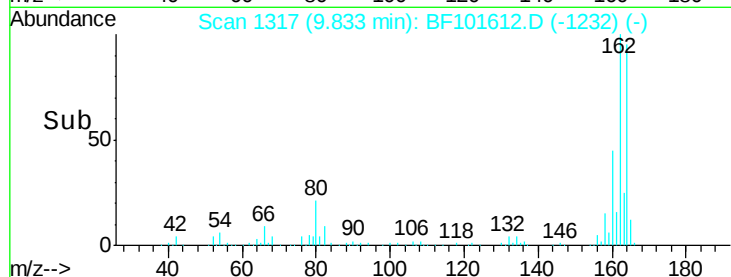
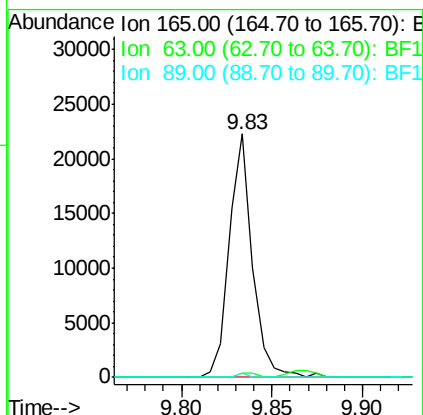
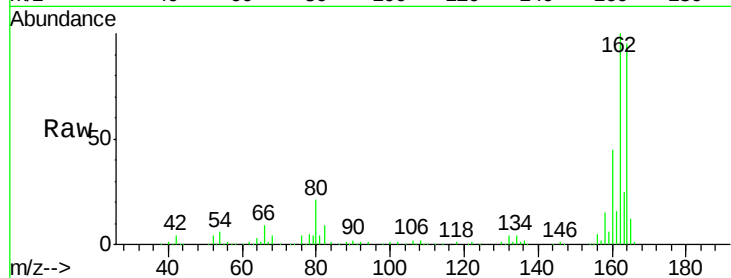




#50
2,6-Dinitrotoluene
Concen: 7.589 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.20 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

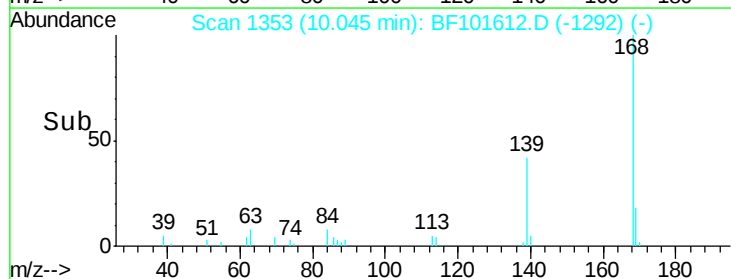
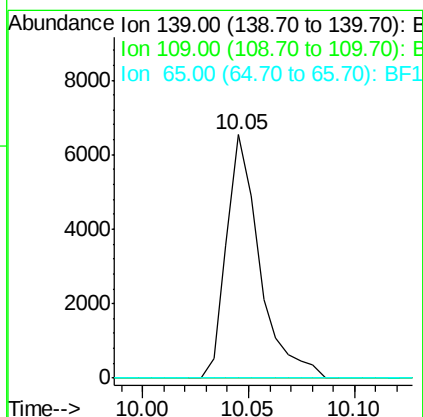
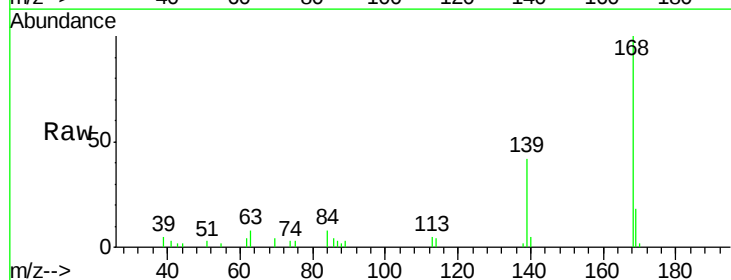
Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-4

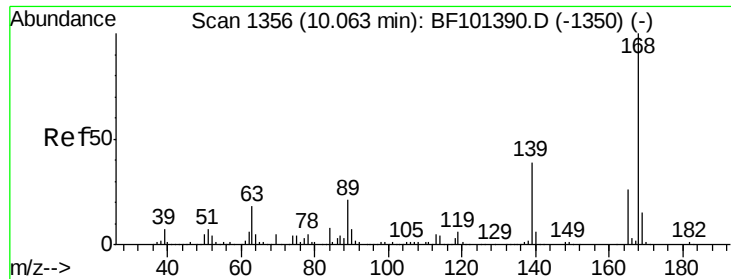
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.8	44.7	67.1#
89	2.0	44.0	66.0#



#55
4-Nitrophenol
Concen: 4.997 ng
RT: 10.05 min Scan# 1353
Delta R.T. 0.06 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	48.4	88.4#
65	0.0	72.6	112.6#

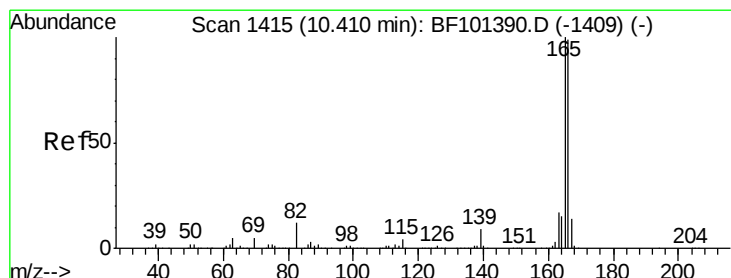
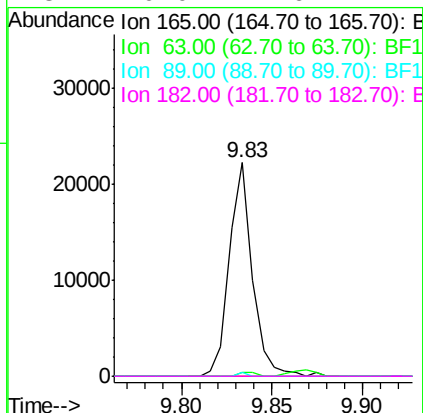
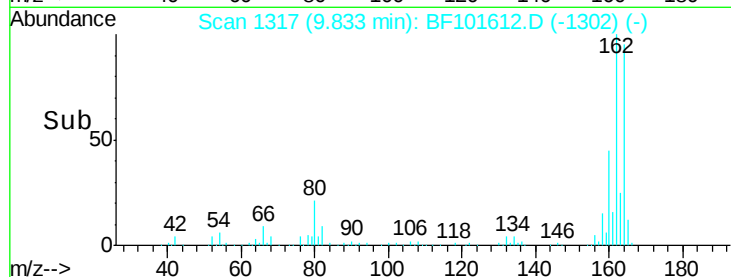
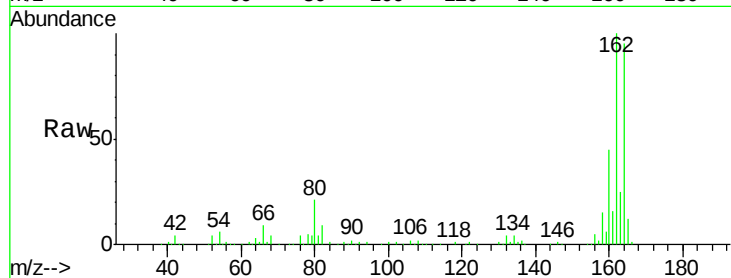




#56
2,4-Dinitrotoluene
Concen: 6.735 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.21 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

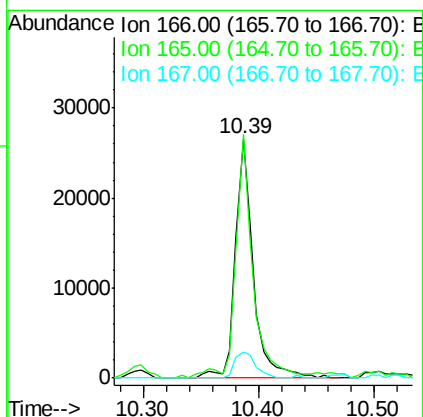
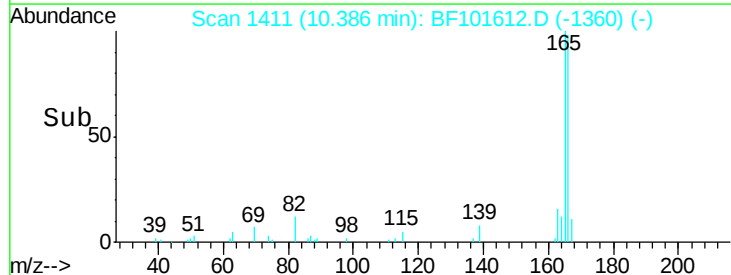
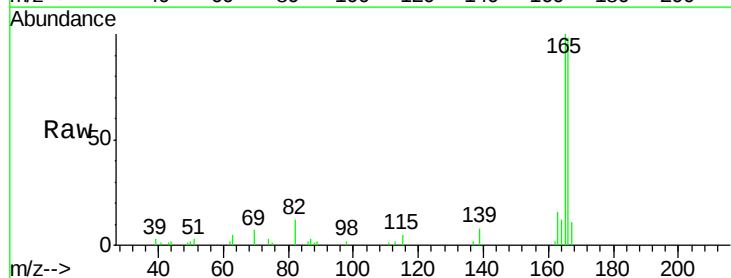
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BNA_F
ClientSampleId :
ROLL-OFF-4

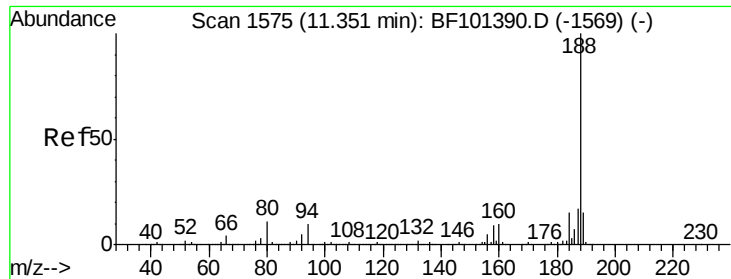
Tgt Ion	Ratio	Resp	Lower	Upper
165	100	19855		
63	1.8	36.4	54.6#	
89	2.0	57.8	86.6#	
182	0.0	1.6	2.4#	



#57
Fluorene
Concen: 2.585 ng
RT: 10.39 min Scan# 1411
Delta R.T. 0.00 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	28638		
165	101.9	79.8	119.8	
167	10.9	10.6	16.0	

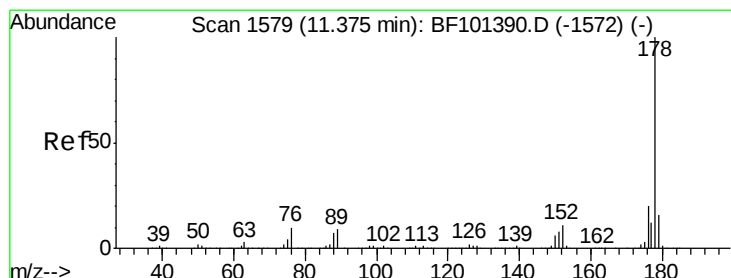
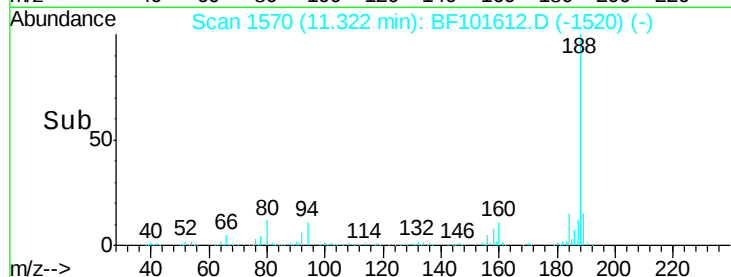
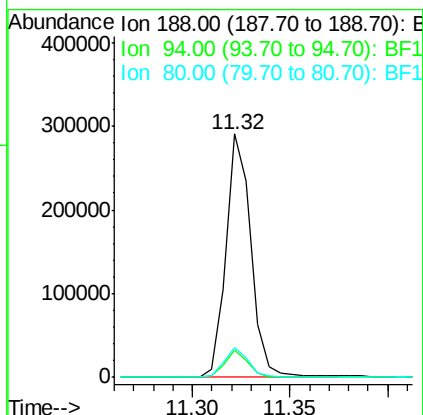
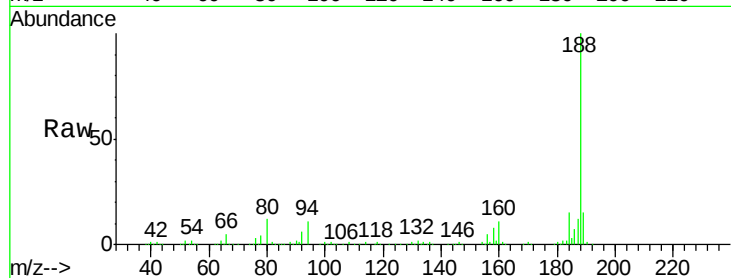




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

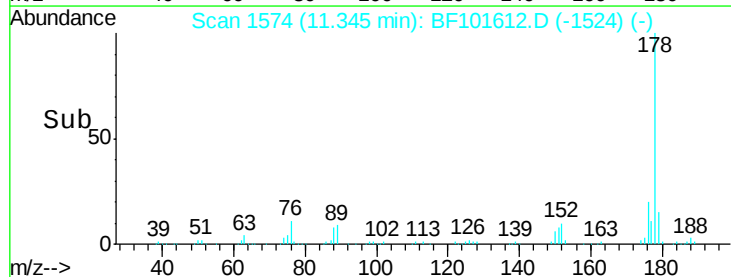
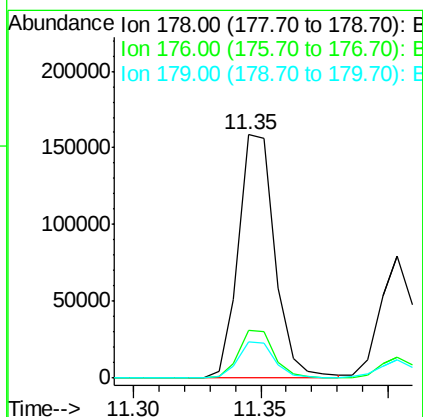
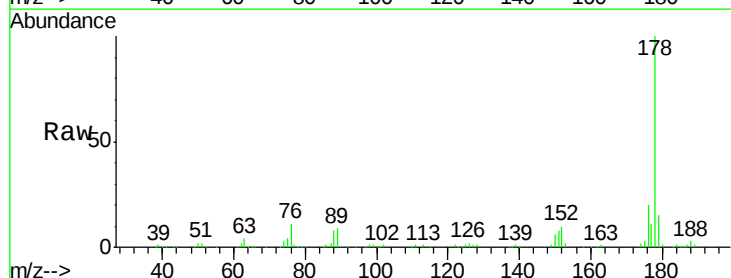
Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-4

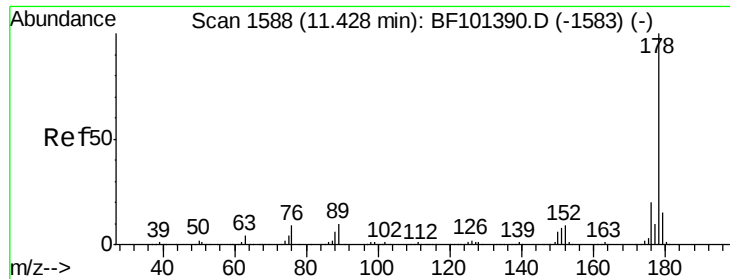
Tgt Ion:188 Resp: 257979
Ion Ratio Lower Upper
188 100
94 11.1 8.5 12.7
80 12.3 9.2 13.8



#70
Phenanthrene
Concen: 11.070 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

Tgt Ion:178 Resp: 158816
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.1 13.0 19.6





#71

Anthracene

Concen: 5.539 ng

RT: 11.40 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF101612.D

Acq: 21 Dec 2017 17:39

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-4

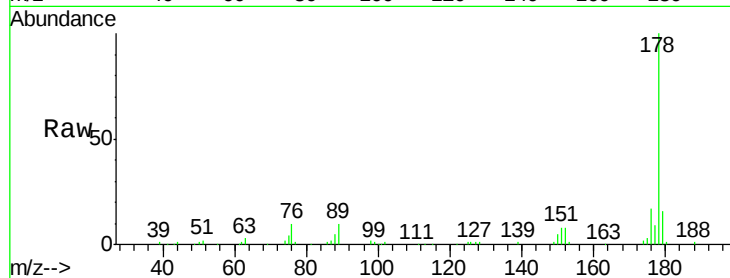
Tgt Ion:178 Resp: 81178

Ion Ratio Lower Upper

178 100

176 17.1 15.4 23.2

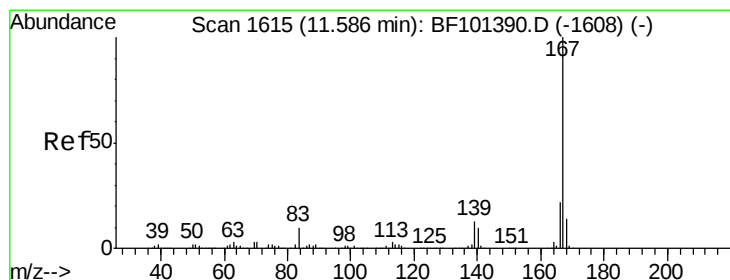
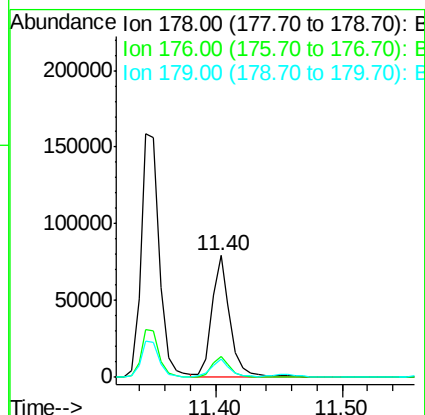
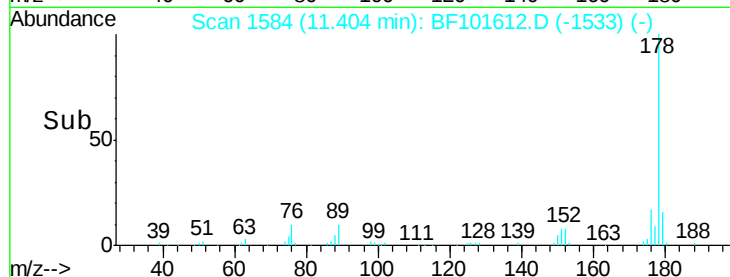
179 15.5 12.6 19.0



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: 2.262 ng

RT: 11.57 min Scan# 1612

Delta R.T. 0.01 min

Lab File: BF101612.D

Acq: 21 Dec 2017 17:39

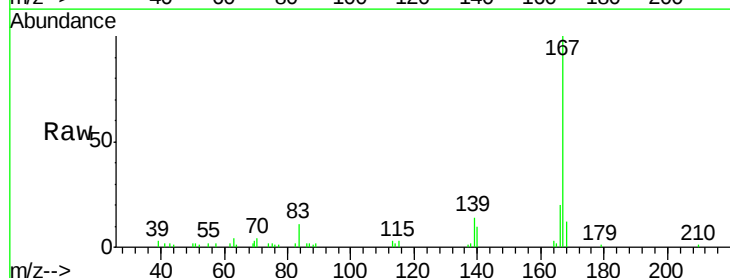
Tgt Ion:167 Resp: 31032

Ion Ratio Lower Upper

167 100

166 20.2 17.6 26.4

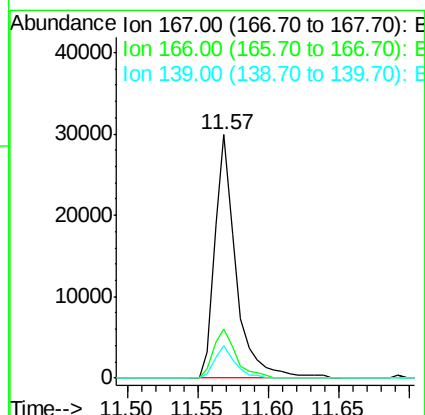
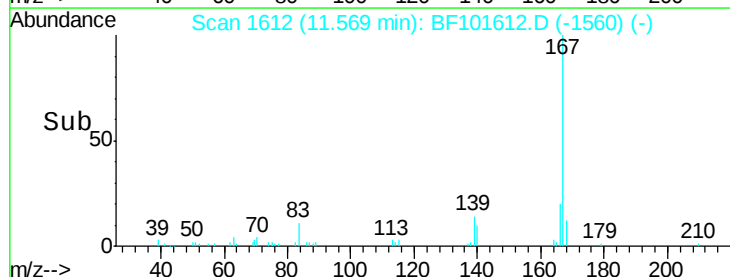
139 13.5 10.9 16.3

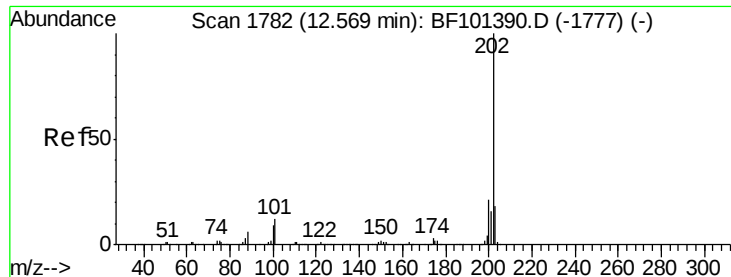


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

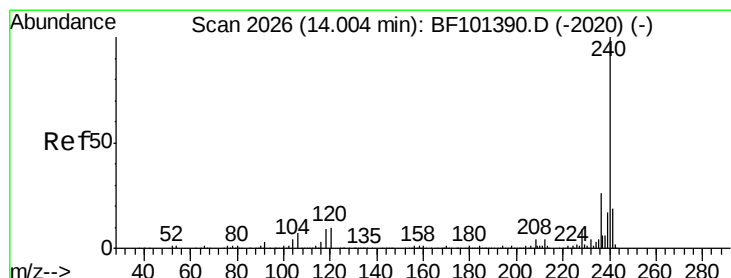
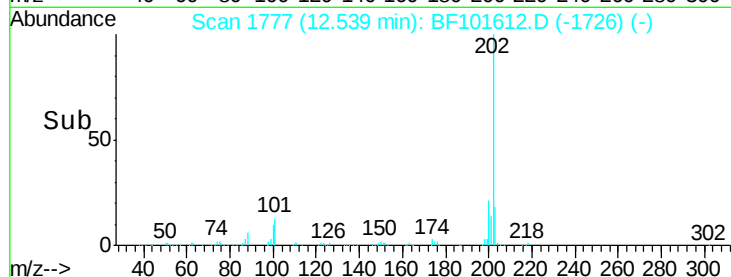
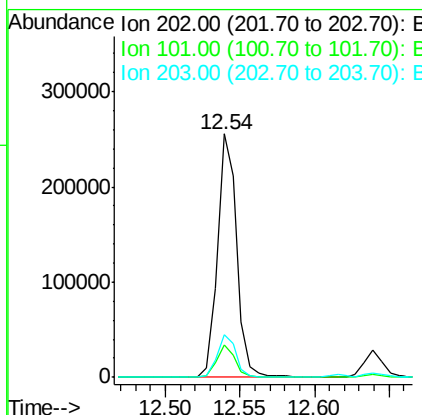
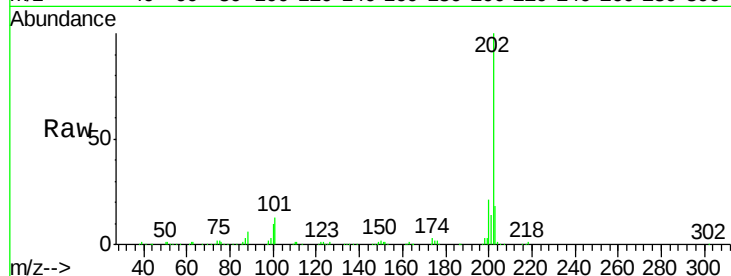




#74
 Fluoranthene
 Concen: 15.318 ng
 RT: 12.54 min Scan# 1777
 Delta R.T. 0.00 min
 Lab File: BF101612.D
 Acq: 21 Dec 2017 17:39

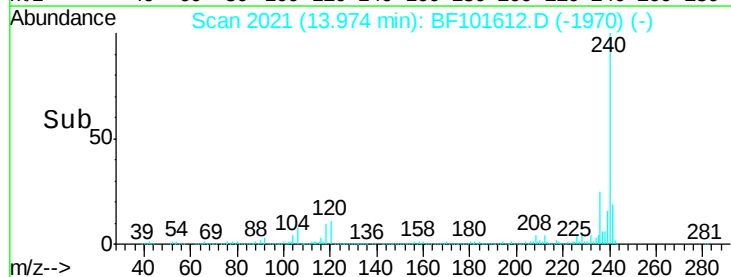
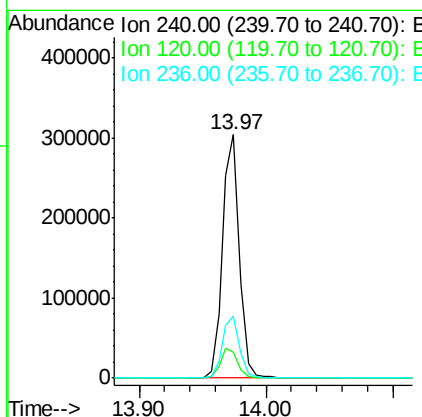
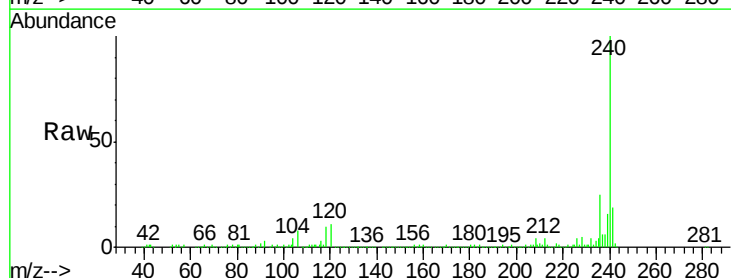
Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-4

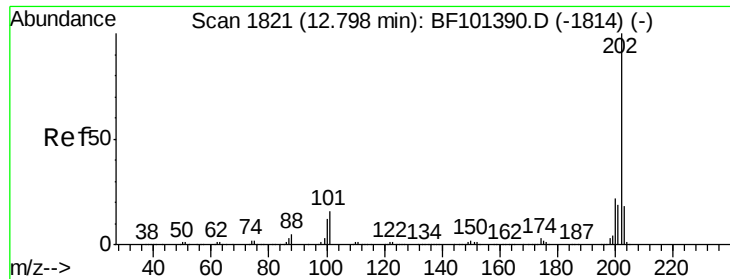
Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	34.1
203	17.6	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.97 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: BF101612.D
 Acq: 21 Dec 2017 17:39

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.5	14.3
236	25.2	20.7	31.1

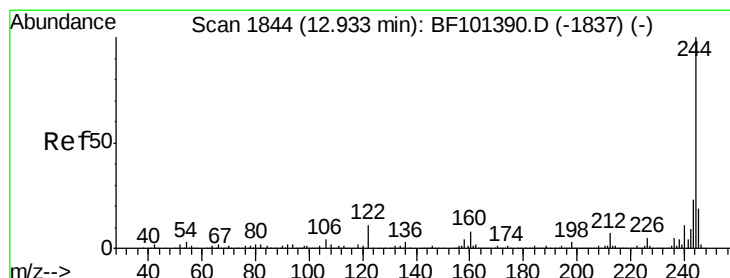
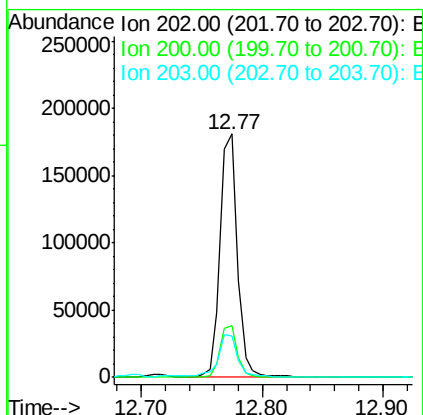
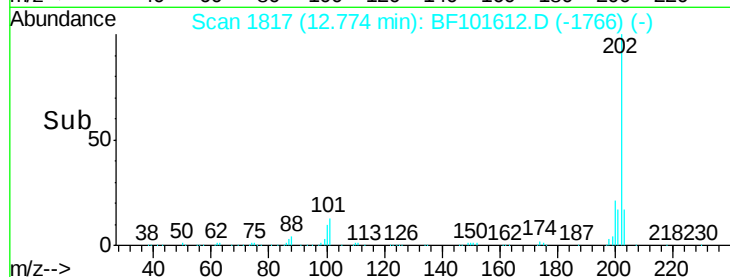
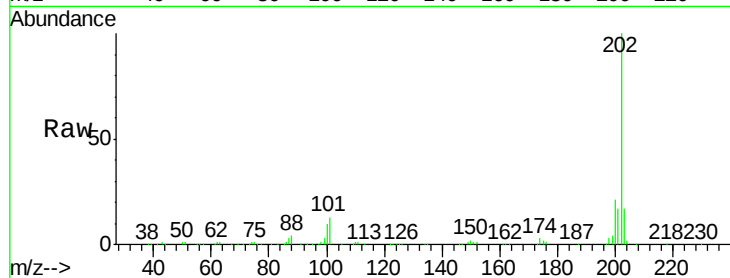




#77
 Pyrene
 Concen: 8.374 ng
 RT: 12.77 min Scan# 1817
 Delta R.T. 0.00 min
 Lab File: BF101612.D
 Acq: 21 Dec 2017 17:39

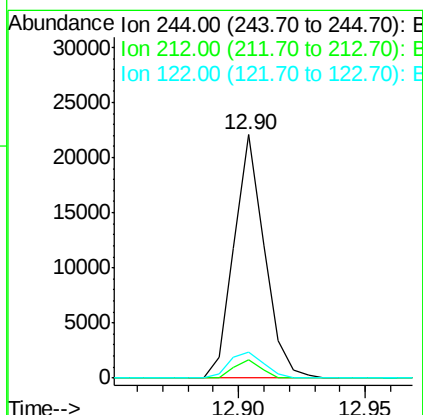
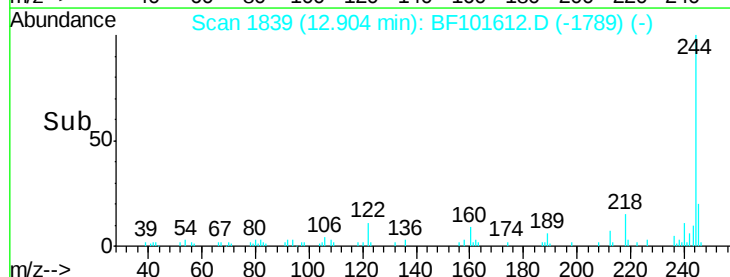
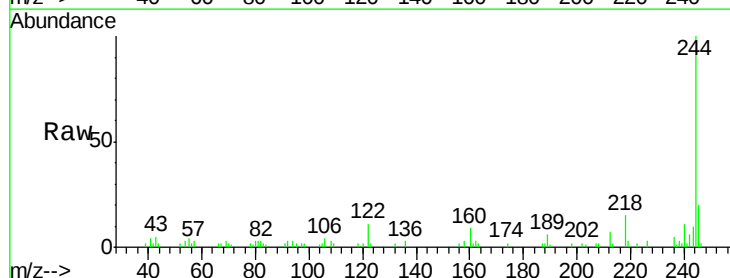
Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-4

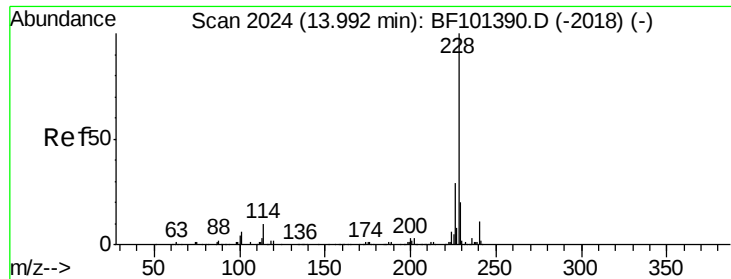
Tgt Ion: 202 Resp: 176822
 Ion Ratio Lower Upper
 202 100
 200 21.1 17.4 26.2
 203 17.1 14.3 21.5



#78
 Terphenyl-d14
 Concen: 1.576 ng
 RT: 12.90 min Scan# 1839
 Delta R.T. -0.01 min
 Lab File: BF101612.D
 Acq: 21 Dec 2017 17:39

Tgt Ion: 244 Resp: 18398
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.4 8.0
 122 10.9 11.0 16.4#





#80

Benzo(a)anthracene

Concen: 5.525 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF101612.D

Acq: 21 Dec 2017 17:39

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-4

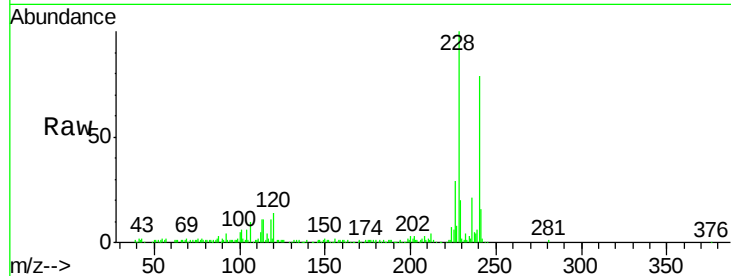
Tgt Ion:228 Resp: 102637

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

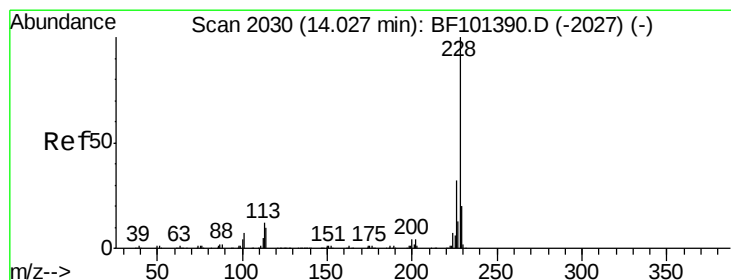
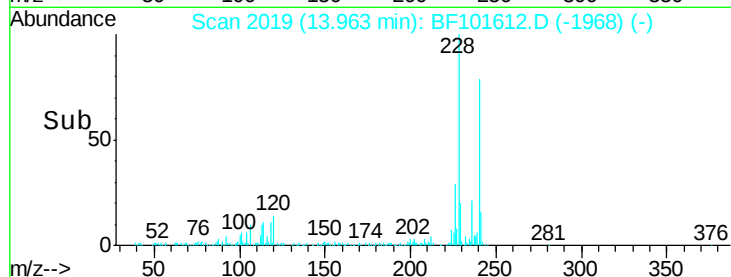
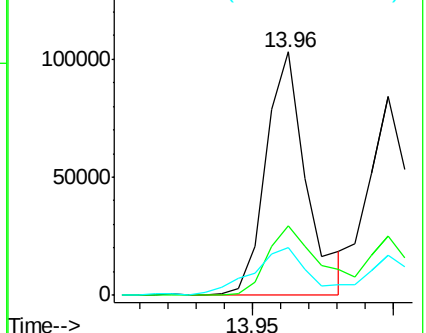
229 19.9 15.8 23.6



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



#82

Chrysene

Concen: 4.607 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF101612.D

Acq: 21 Dec 2017 17:39

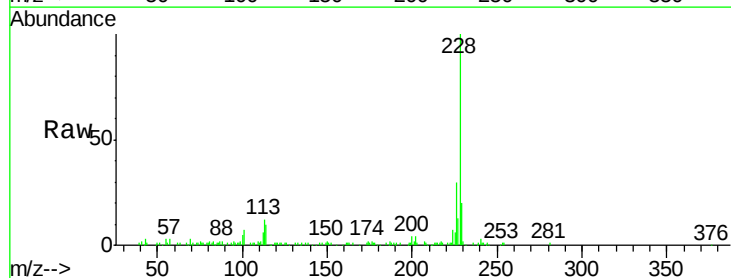
Tgt Ion:228 Resp: 80809

Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.6

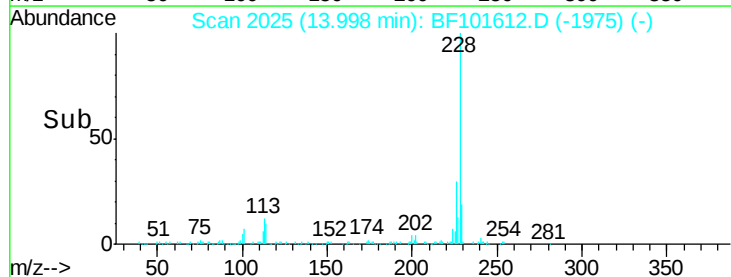
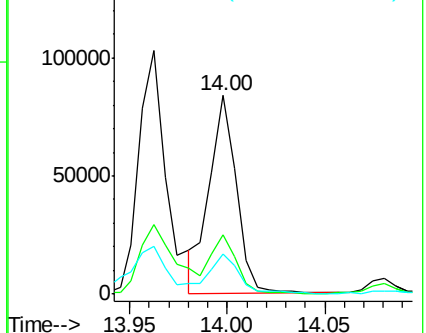
229 20.0 16.2 24.4

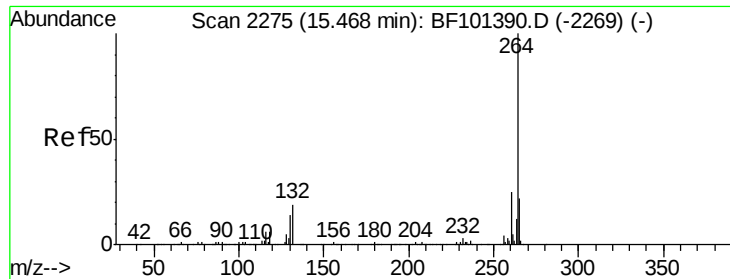


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

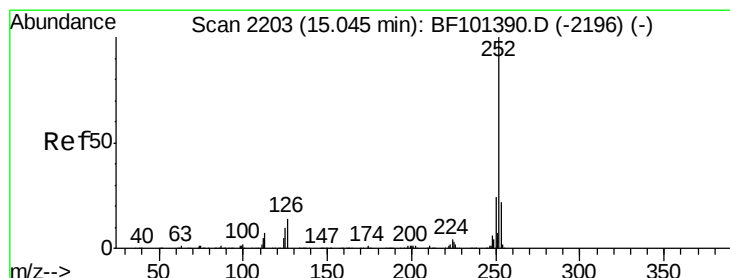
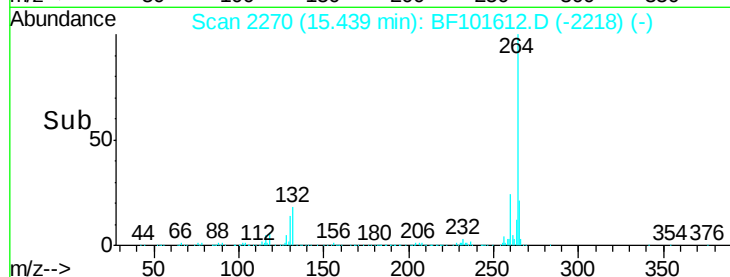
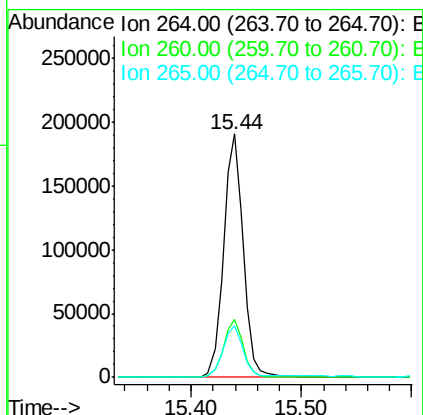
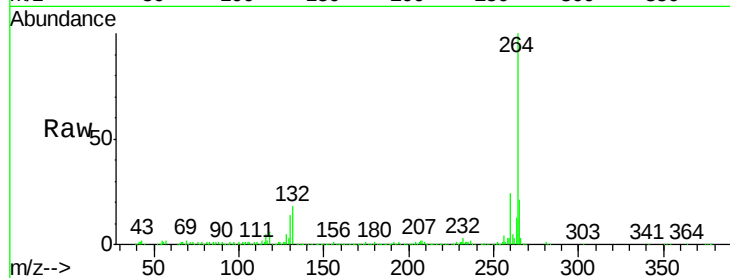




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.01 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

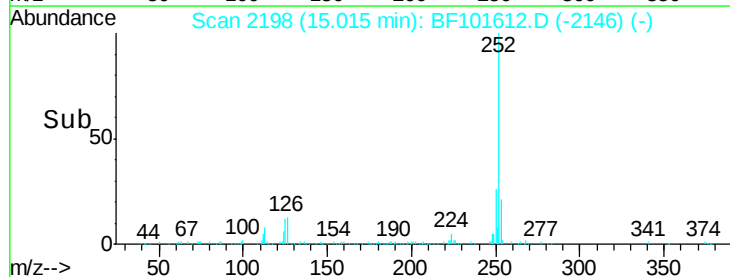
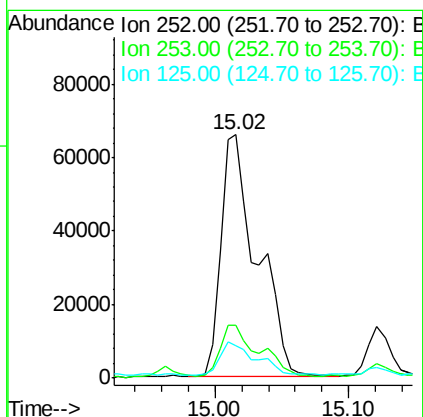
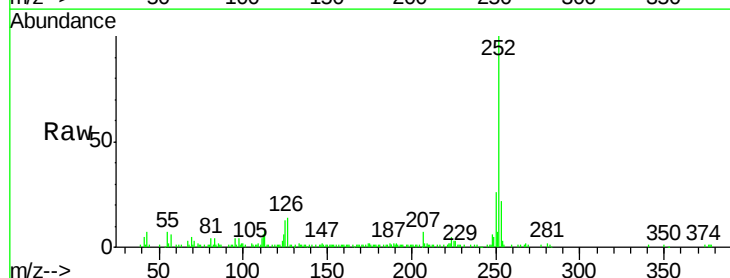
Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-4

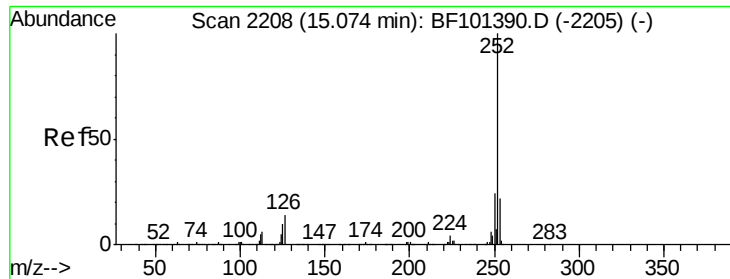
Tgt Ion:264 Resp: 237174
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 21.5 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 8.660 ng
RT: 15.02 min Scan# 2198
Delta R.T. 0.01 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

Tgt Ion:252 Resp: 125196
Ion Ratio Lower Upper
252 100
253 21.9 17.0 25.6
125 13.3 9.0 13.6

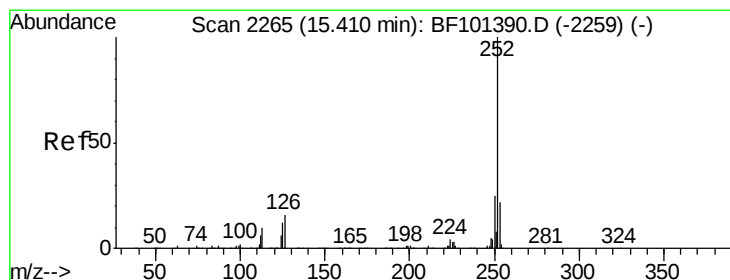
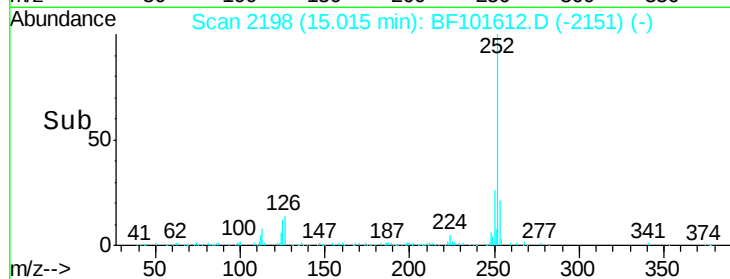
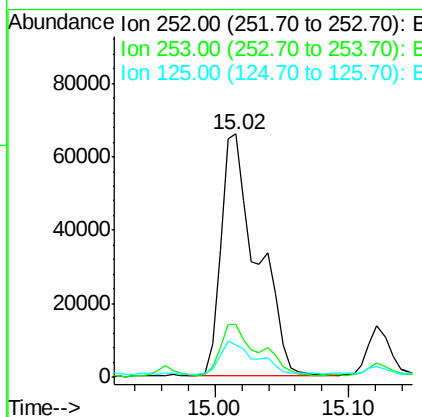
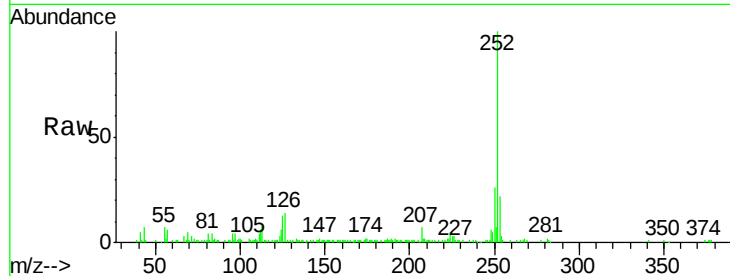




#88
Benzo(k)fluoranthene
Concen: 8.907 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.02 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

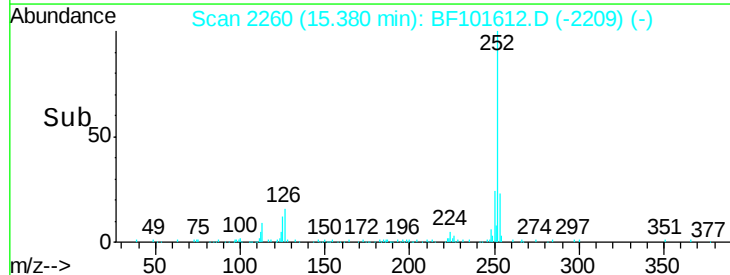
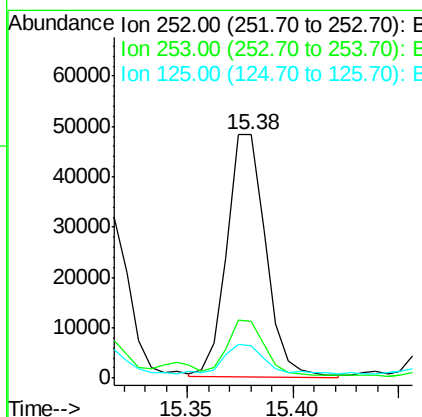
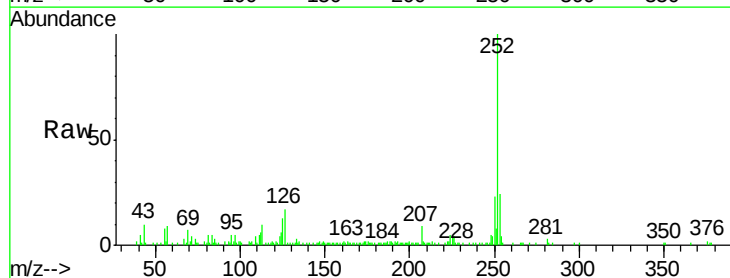
Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-4

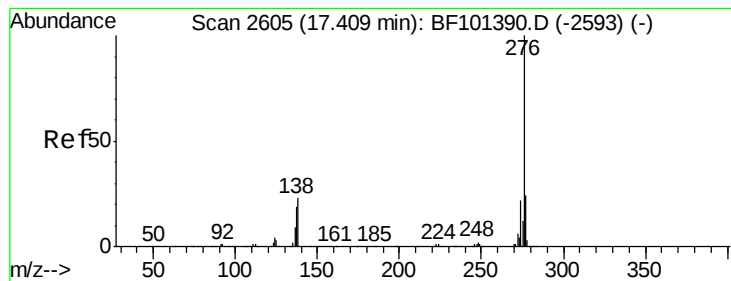
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9
125	13.3	10.2	15.2



#89
Benzo(a)pyrene
Concen: 4.613 ng
RT: 15.38 min Scan# 2260
Delta R.T. 0.00 min
Lab File: BF101612.D
Acq: 21 Dec 2017 17:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	13.2	9.8	14.6





#91

Benzo(g,h,i)perylene

Concen: 2.456 ng

RT: 17.37 min Scan# 2598

Delta R.T. 0.02 min

Lab File: BF101612.D

Acq: 21 Dec 2017 17:39

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-4

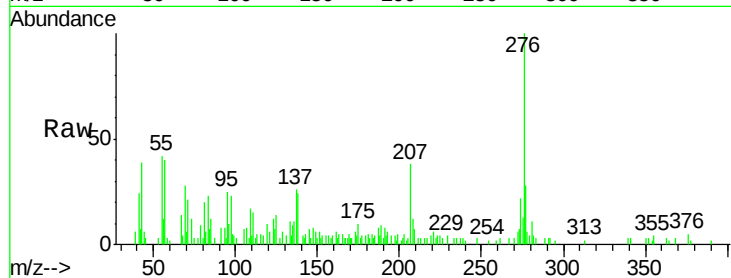
Tgt Ion:276 Resp: 27832

Ion Ratio Lower Upper

276 100

277 28.2 17.9 26.9#

138 24.0 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

