

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF120517\
 Data File : BF101140.D
 Acq On : 5 Dec 2017 23:18
 Operator : SJ/JU
 Sample : I6696-02DL 25X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 06 00:25:32 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	51941	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	197536	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	88836	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	161056	20.00	ng	0.00
75) Chrysene-d12	14.02	240	97869	20.00	ng	0.00
86) Perylene-d12	15.49	264	109002	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	11628	3.70	ng	0.00
7) Phenol-d6	6.47	99	14266	3.74	ng	0.00
23) Nitrobenzene-d5	7.41	82	8706	2.63	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	3062	2.87	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	15329	2.36	ng	-0.01
78) Terphenyl-d14	12.95	244	11046	2.47	ng	-0.01

Target Compounds

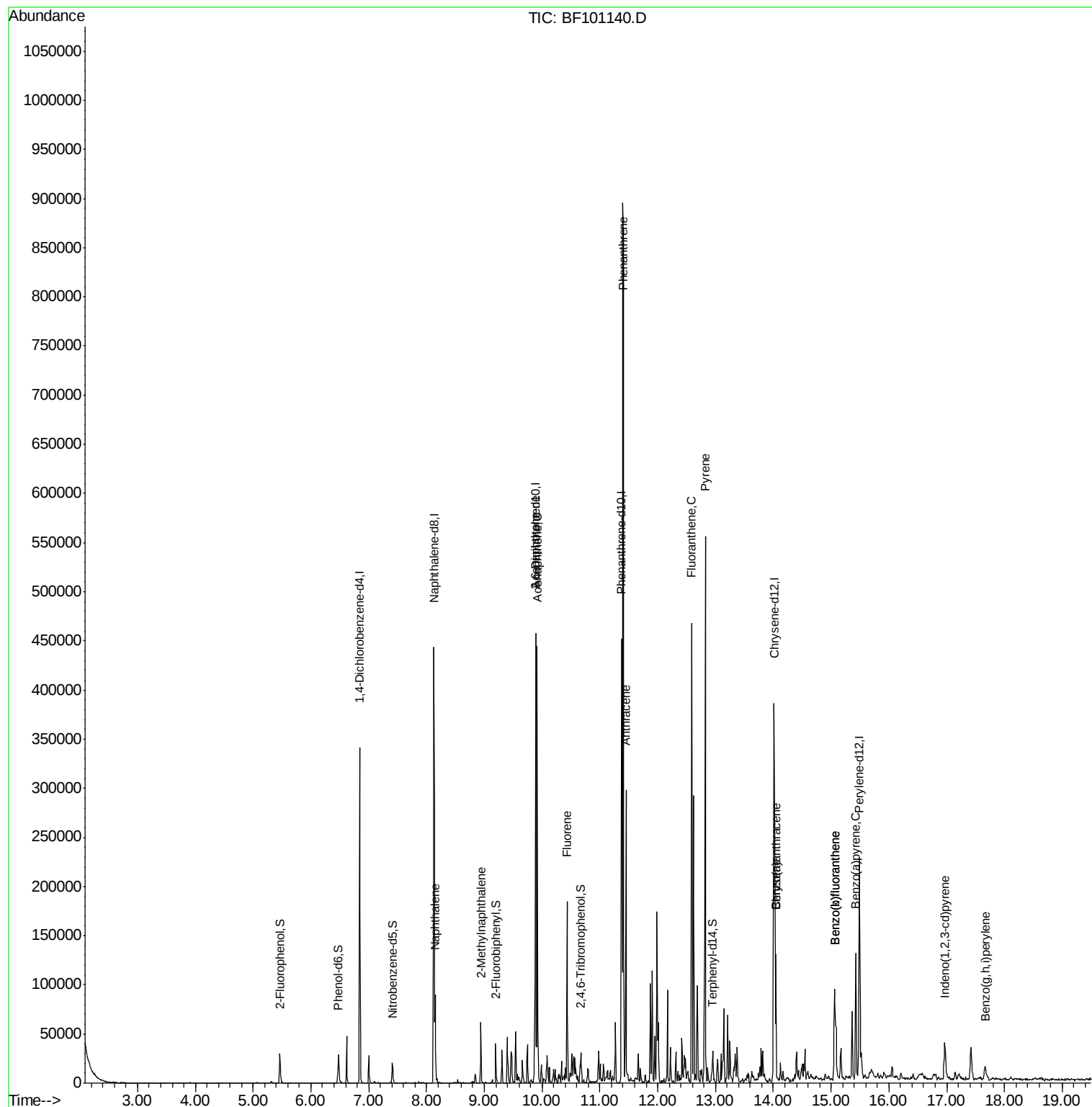
						Qvalue
31) Naphthalene	8.15	128	37024	3.803	ng	98
37) 2-Methylnaphthalene	8.94	142	17695	2.675	ng	95
50) 2,6-Dinitrotoluene	9.89	165	12310	8.158	ng	# 24
51) Acenaphthene	9.92	154	90732	15.951	ng	96
57) Fluorene	10.43	166	47139	7.074	ng	98
70) Phenanthrene	11.40	178	367894	41.480	ng	98
71) Anthracene	11.45	178	113841	12.682	ng	98
74) Fluoranthene	12.59	202	197517	20.090	ng	96
77) Pyrene	12.82	202	229468	33.979	ng	98
80) Benzo(a)anthracene	14.04	228	55206	8.934	ng	96
82) Chrysene	14.04	228	55206	9.620	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	29412	5.765	ng	# 87
87) Benzo(b)fluoranthene	15.06	252	82163	12.584	ng	98
88) Benzo(k)fluoranthene	15.06	252	82163	12.773	ng	95
89) Benzo(a)pyrene	15.43	252	63580	10.712	ng	99
91) Benzo(g,h,i)perylene	17.66	276	13308	2.699	ng	93

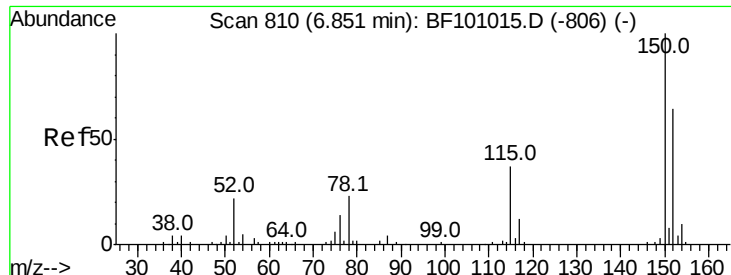
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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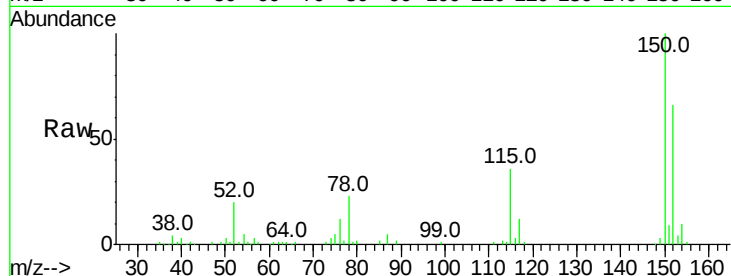


#1

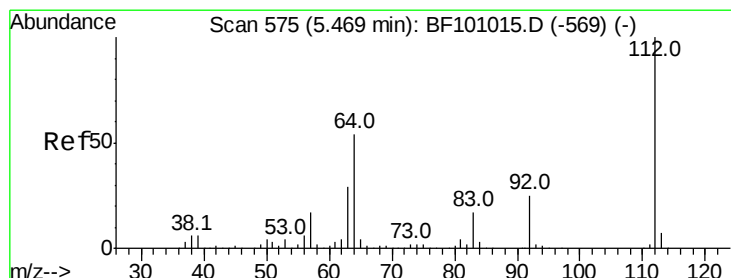
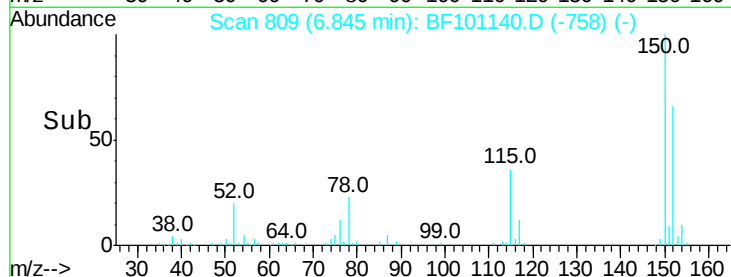
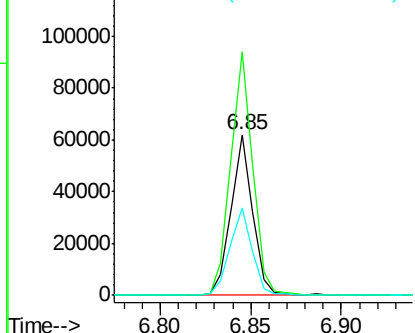
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 51941
Ion Ratio Lower Upper
152 100
150 151.7 124.6 186.8
115 54.9 50.1 75.1



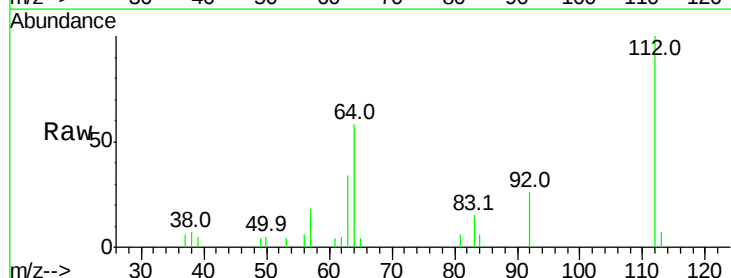
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



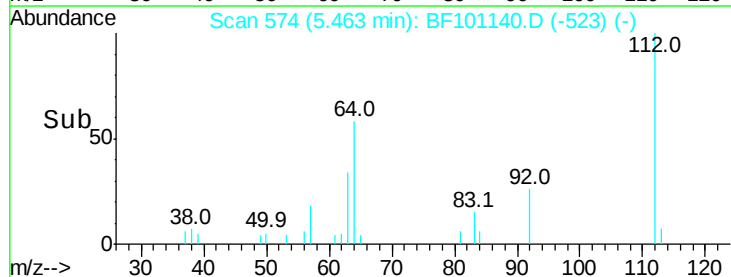
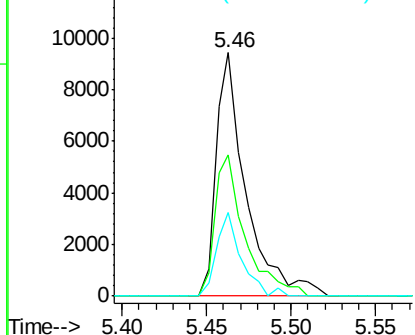
#5

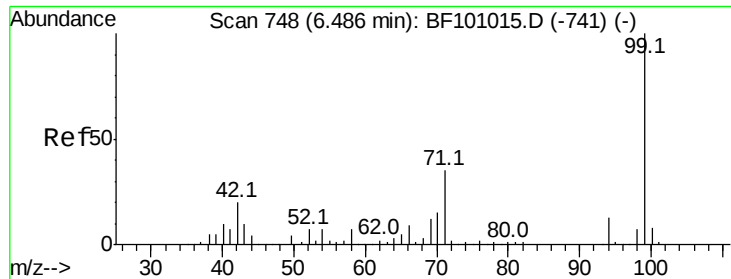
2-Fluorophenol
Concen: 3.699 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Tgt Ion:112 Resp: 11628
Ion Ratio Lower Upper
112 100
64 58.0 47.9 71.9
63 34.4 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: 3.738 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF101140.D

Acq: 5 Dec 2017 23:18

Instrument :

BNA_F

ClientSampleId :

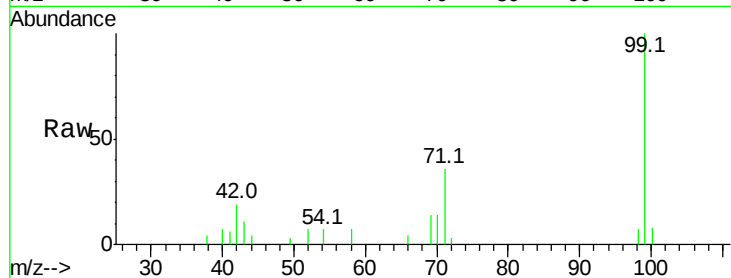
Tot Ion: 99 Resp: 14266

Ion Ratio Lower Upper

99 100

42 18.5 14.5 21.7

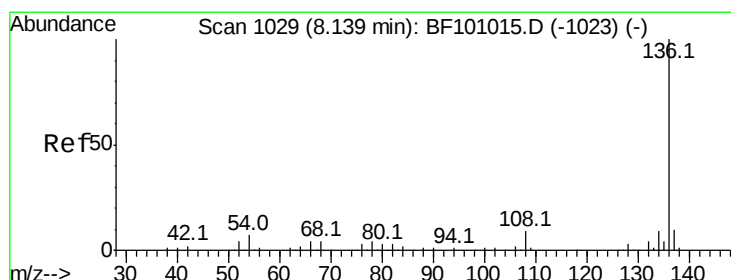
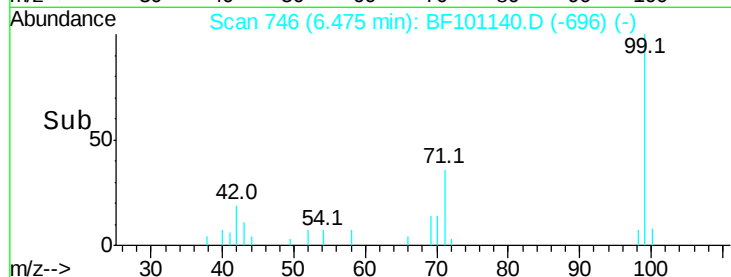
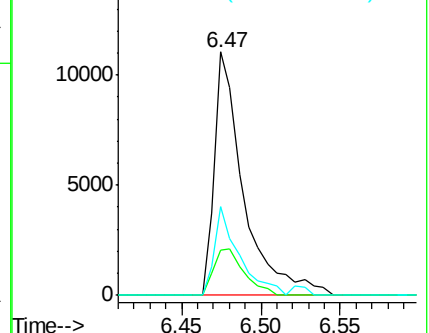
71 36.4 25.4 38.0



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: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF101140.D

Acq: 5 Dec 2017 23:18

Tgt Ion: 136 Resp: 197536

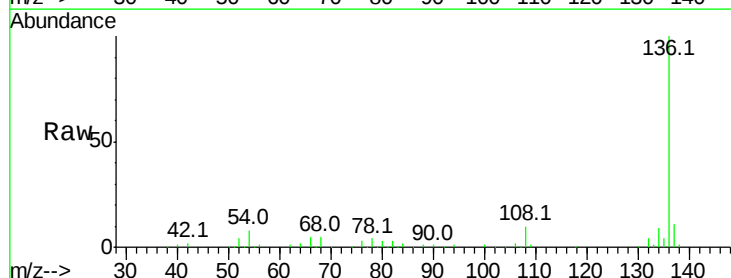
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.0 6.6 9.8

68 4.8 5.0 7.4#

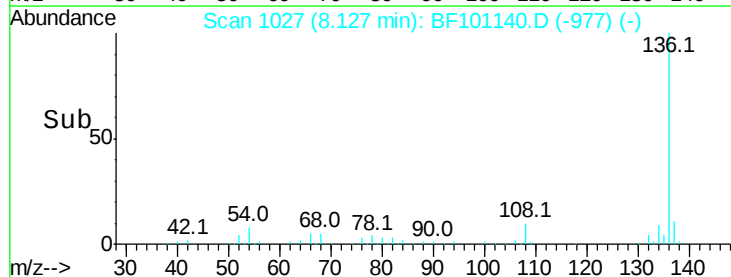
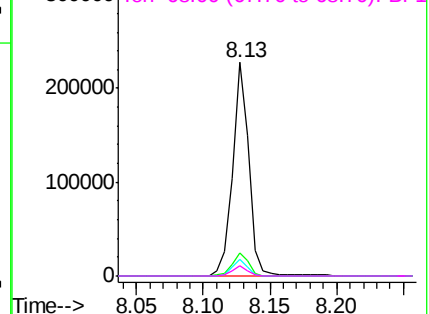


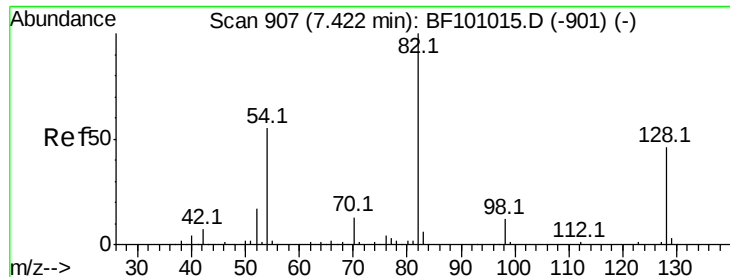
Abundance Ion 136.00 (135.70 to 136.70): E

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

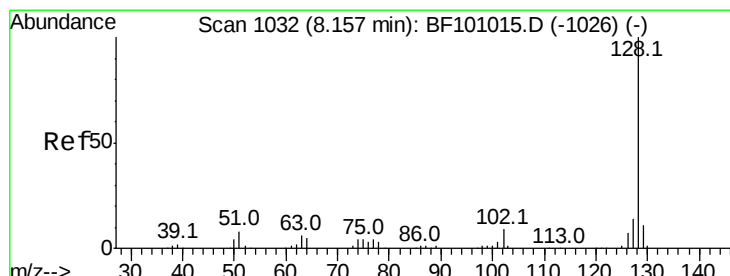
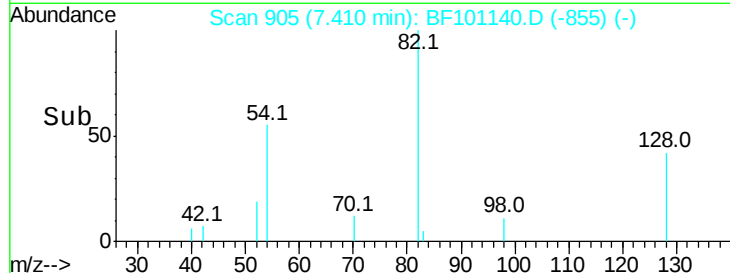
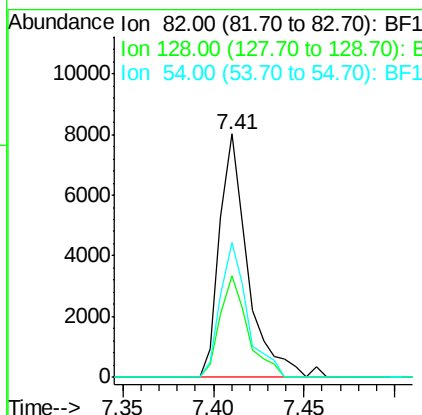
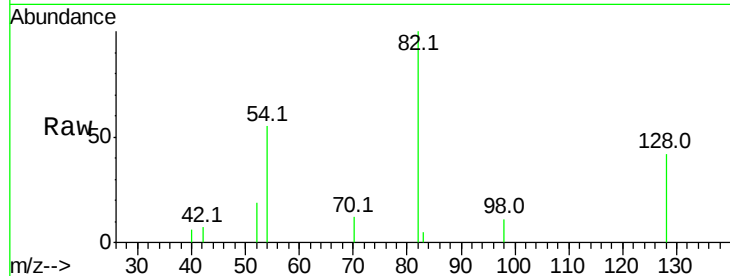




#23
 Nitrobenzene-d5
 Concen: 2.629 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.01 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

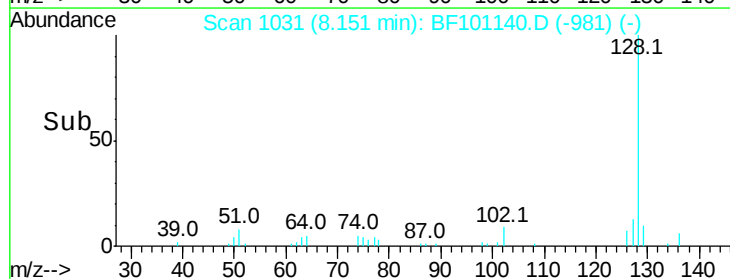
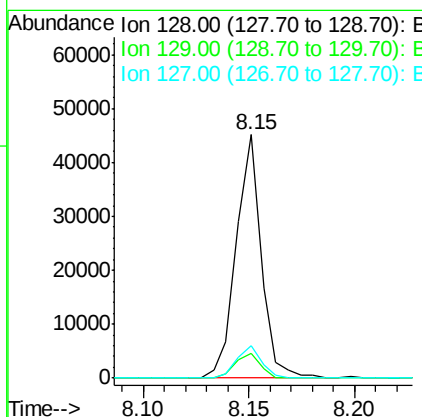
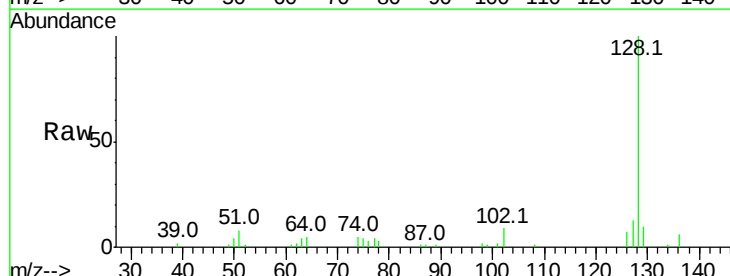
Instrument :
 BNA_F
 ClientSampled :

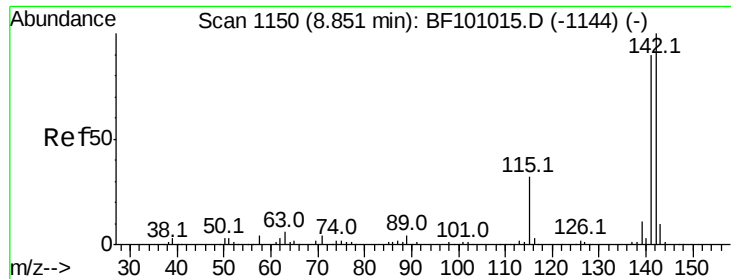
Tot Ion	82	Resp	8706
Ion Ratio	Lower	Upper	
82	100		
128	41.8	36.1	54.1
54	55.4	41.4	62.2



#31
 Naphthalene
 Concen: 3.803 ng
 RT: 8.15 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

Tgt Ion	128	Resp	37024
Ion Ratio	Lower	Upper	
128	100		
129	10.2	8.8	13.2
127	13.1	10.9	16.3

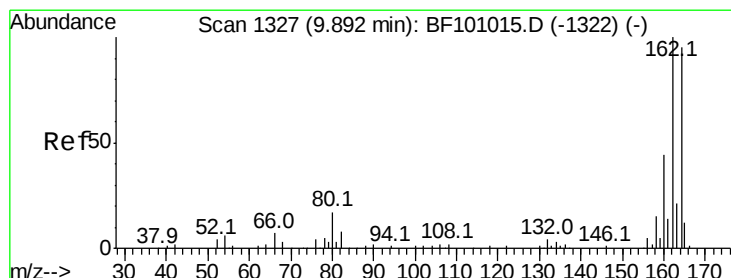
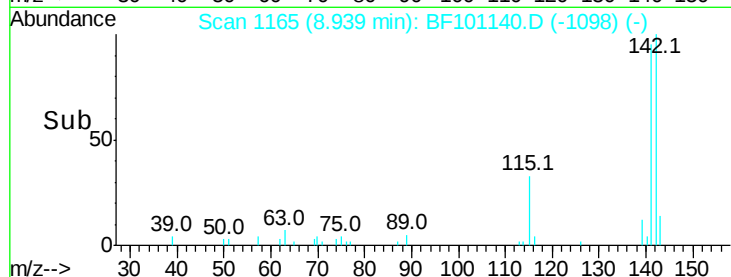
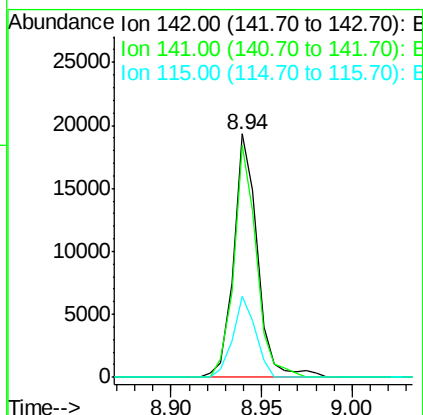
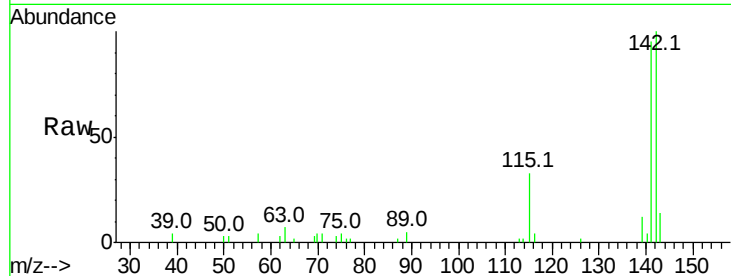




#37
 2-Methylnaphthalene
 Concen: 2.675 ng
 RT: 8.94 min Scan# 1165
 Delta R.T. 0.09 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

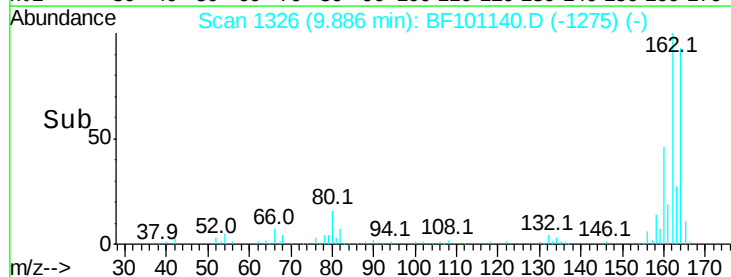
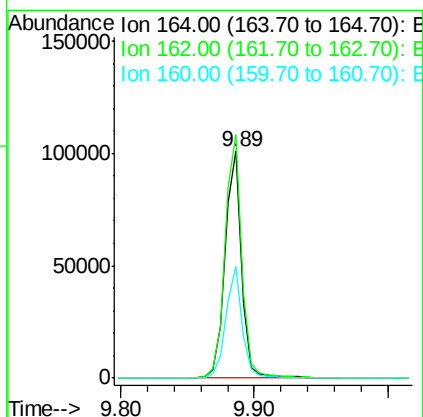
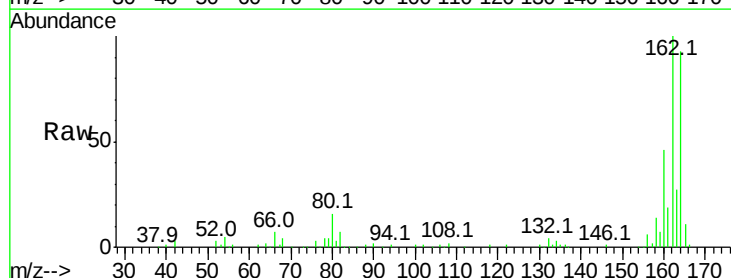
Instrument :
 BNA_F
 ClientSampled :

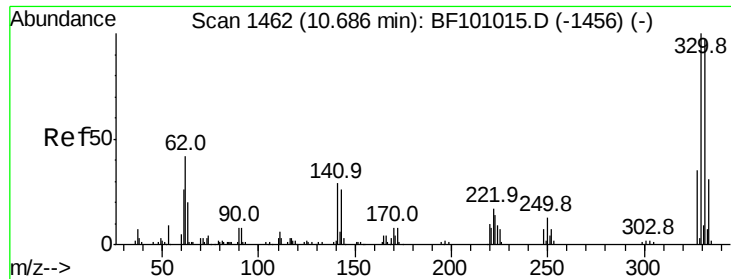
Tot Ion:142 Resp: 17695
 Ion Ratio Lower Upper
 142 100
 141 95.1 70.8 106.2
 115 33.0 26.1 39.1



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

Tgt Ion:164 Resp: 88836
 Ion Ratio Lower Upper
 164 100
 162 107.5 86.1 129.1
 160 49.4 38.3 57.5

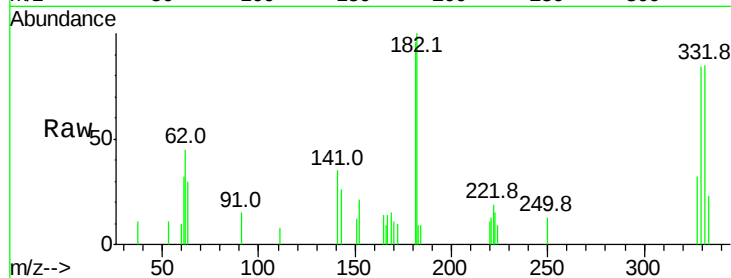




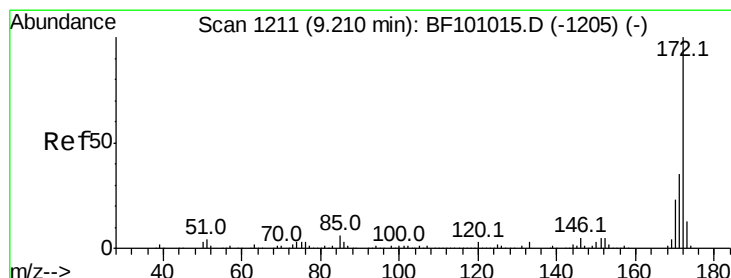
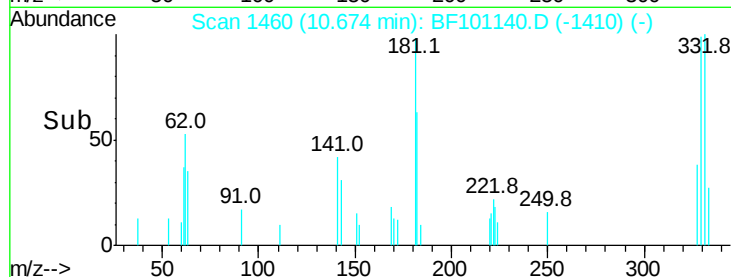
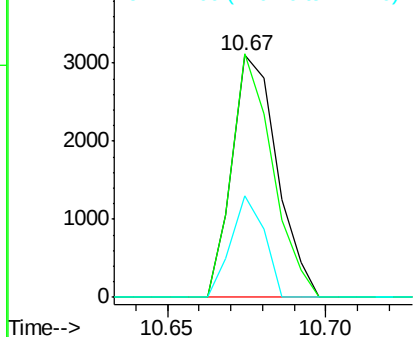
#41
 2,4,6-Tribromophenol
 Concen: 2.869 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 3062
 Ion Ratio Lower Upper
 330 100
 332 91.0 77.0 115.6
 141 30.9 29.9 44.9

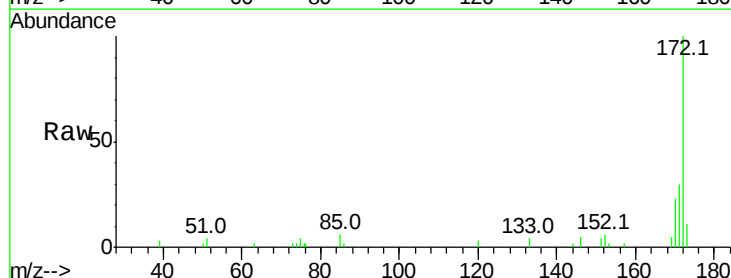


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

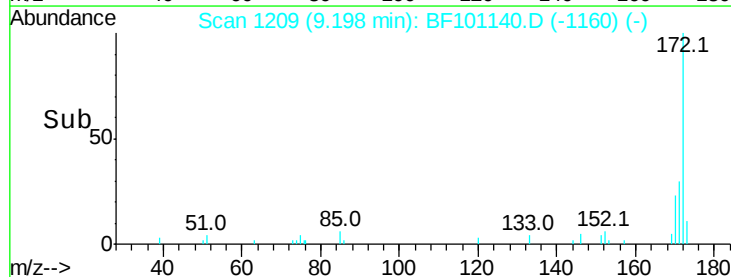
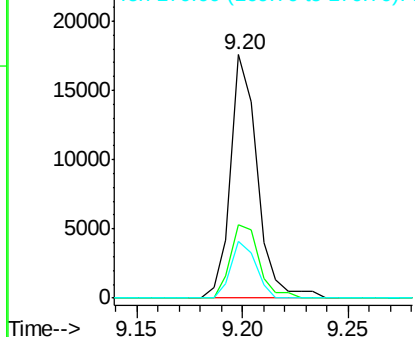


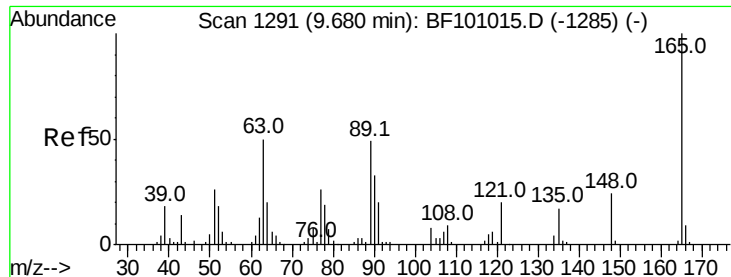
#44
 2-Fluorobiphenyl
 Concen: 2.361 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

Tgt Ion:172 Resp: 15329
 Ion Ratio Lower Upper
 172 100
 171 30.3 29.7 44.5
 170 23.5 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

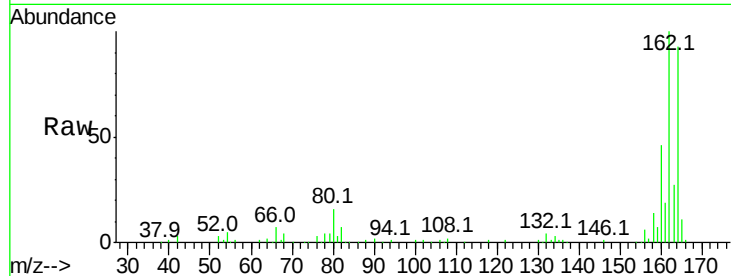




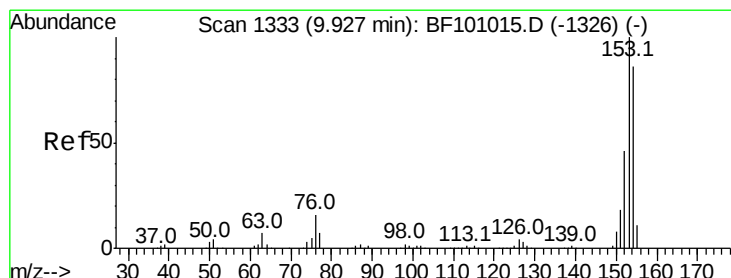
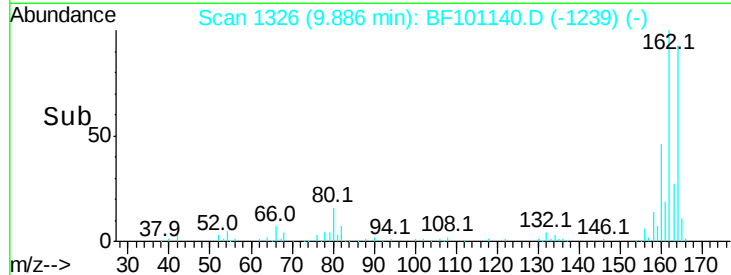
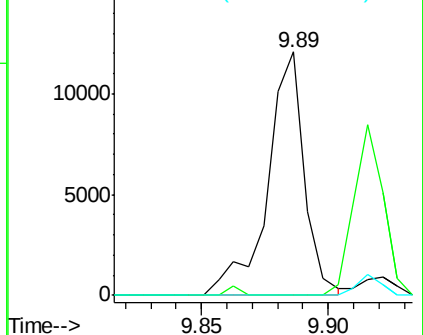
#50
2,6-Dinitrotoluene
Concen: 8.158 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.21 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 12310
Ion Ratio Lower Upper
165 100
63 0.0 44.7 67.1#
89 0.0 44.0 66.0#

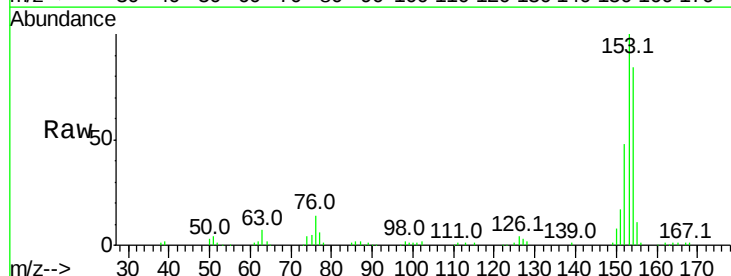


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

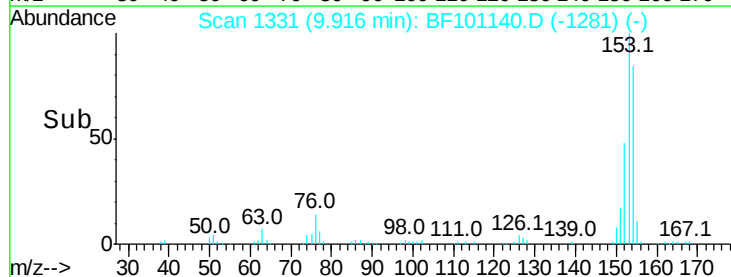
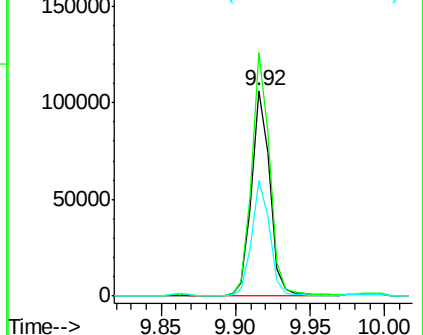


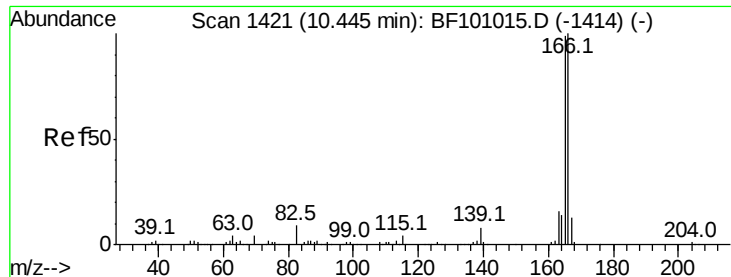
#51
Acenaphthene
Concen: 15.951 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Tgt Ion:154 Resp: 90732
Ion Ratio Lower Upper
154 100
153 118.5 91.2 136.8
152 56.5 43.8 65.8



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



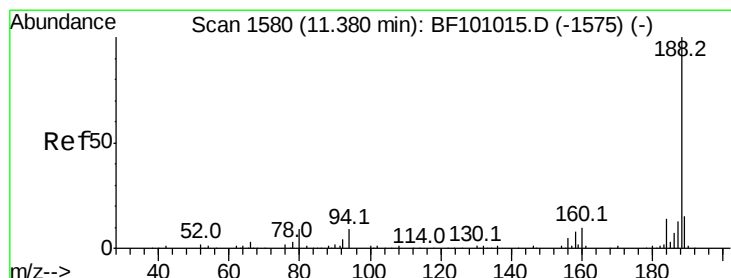
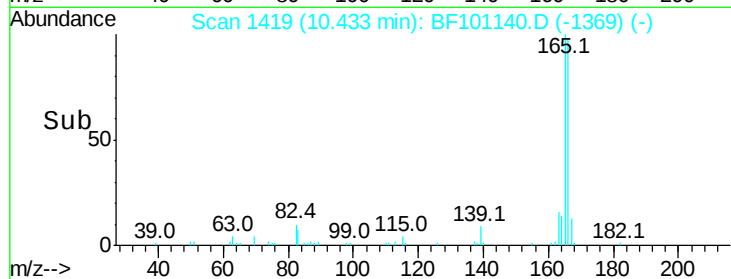
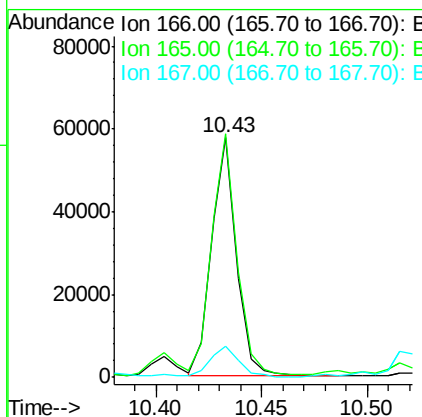
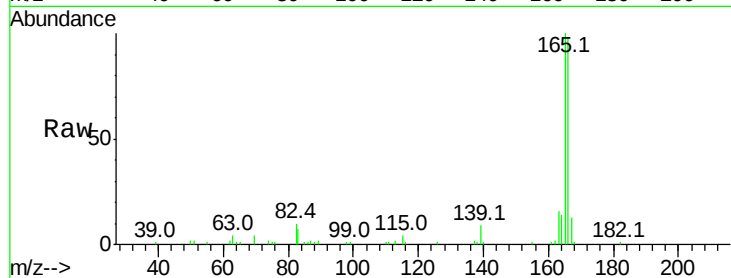


#57
Fluorene
 Concen: 7.074 ng
 RT: 10.43 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 47139

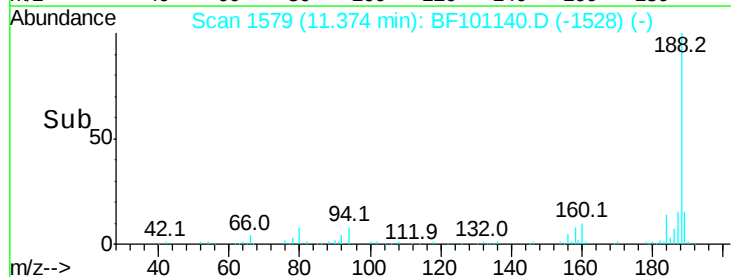
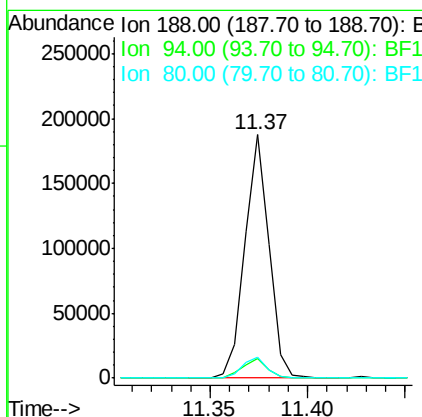
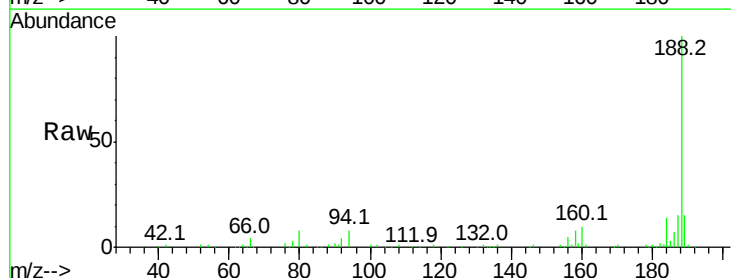
Ion	Ratio	Lower	Upper
166	100		
165	101.8	79.8	119.8
167	13.1	10.6	16.0

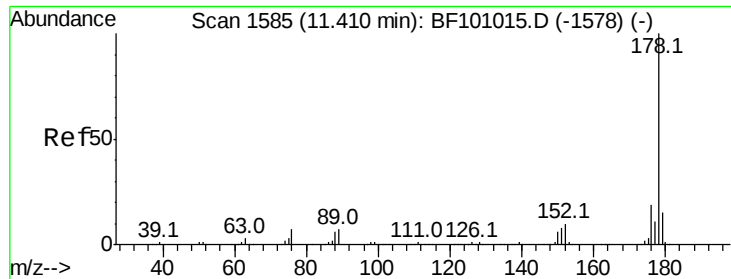


#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

Tgt Ion:188 Resp: 161056

Ion	Ratio	Lower	Upper
188	100		
94	8.2	8.5	12.7#
80	8.3	9.2	13.8#

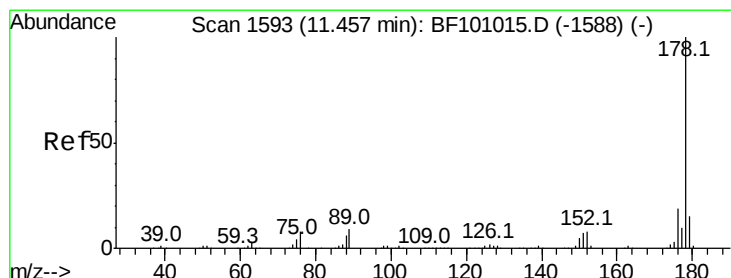
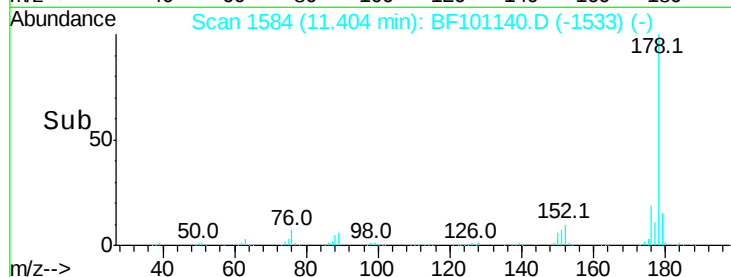
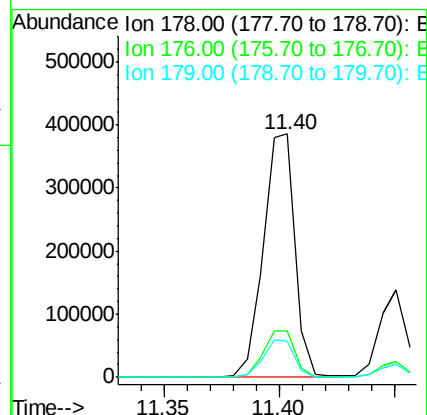
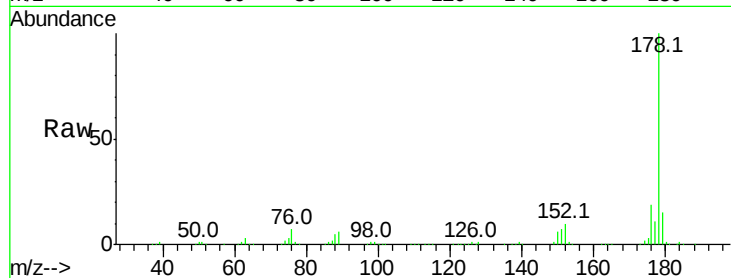




#70
 Phenanthrene
 Concen: 41.480 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

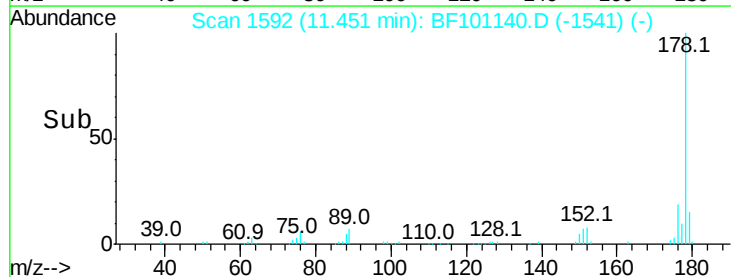
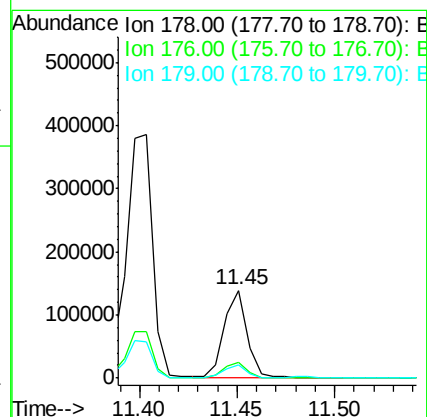
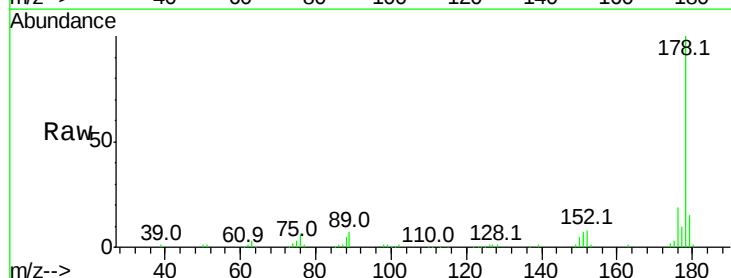
Instrument :
 BNA_F
 ClientSampleId :

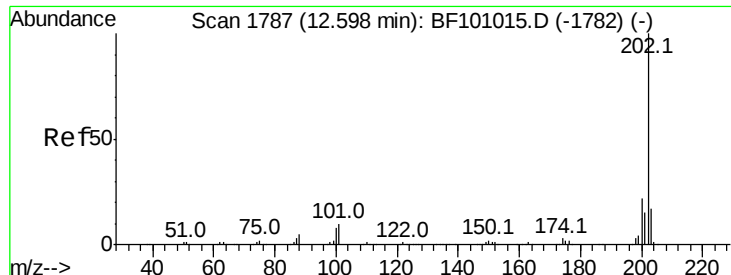
Tot Ion:178 Resp: 367894
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.8 23.8
 179 14.7 13.0 19.6



#71
 Anthracene
 Concen: 12.682 ng
 RT: 11.45 min Scan# 1592
 Delta R.T. 0.00 min
 Lab File: BF101140.D
 Acq: 5 Dec 2017 23:18

Tgt Ion:178 Resp: 113841
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.2
 179 15.0 12.6 19.0

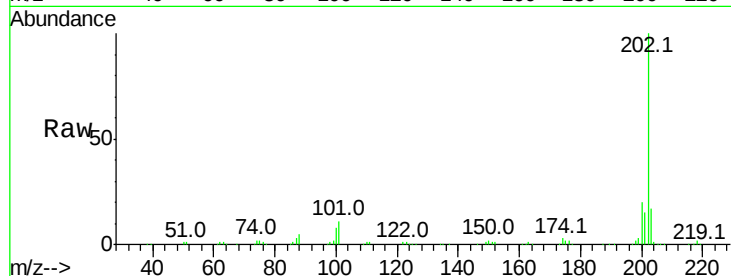




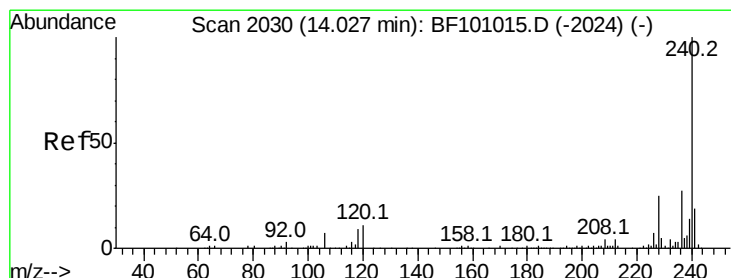
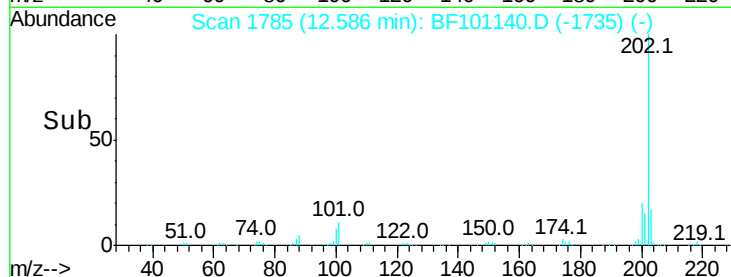
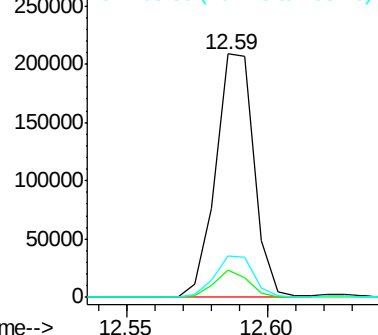
#74
Fluoranthene
Concen: 20.090 ng
RT: 12.59 min Scan# 1785
Delta R.T. -0.01 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	34.1
203	17.1	0.0	38.1

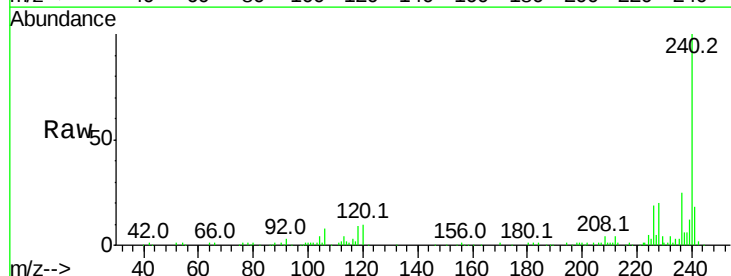


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

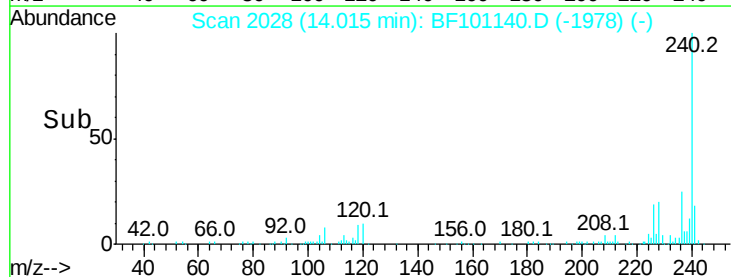
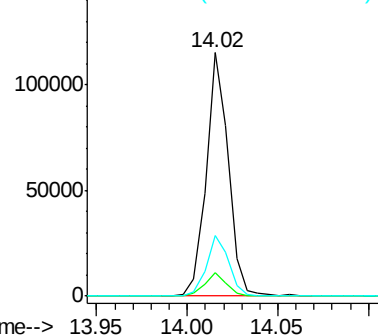


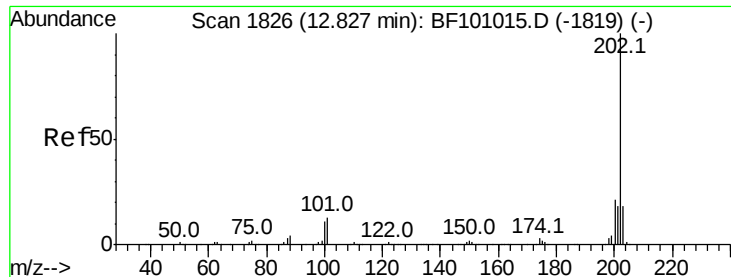
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.8	9.5	14.3
236	24.9	20.7	31.1



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

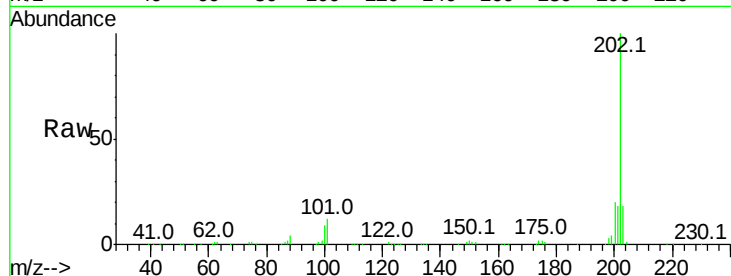




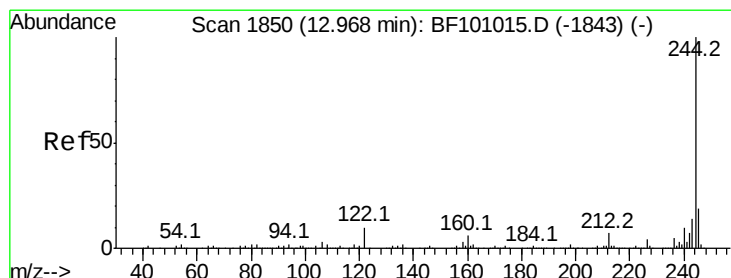
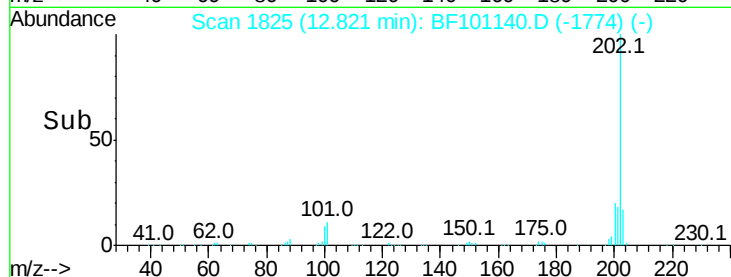
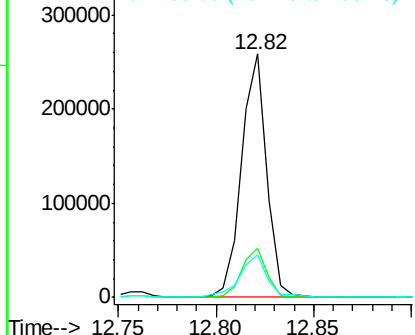
#77
Pvrene
Concen: 33.979 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.00 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 229468
Ion Ratio Lower Upper
202 100
200 20.2 17.4 26.2
203 17.5 14.3 21.5

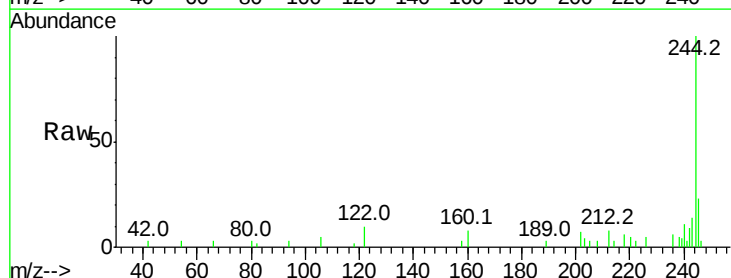


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

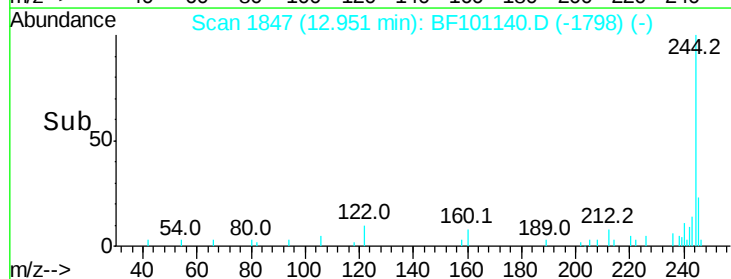
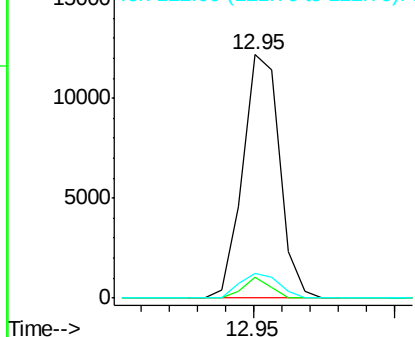


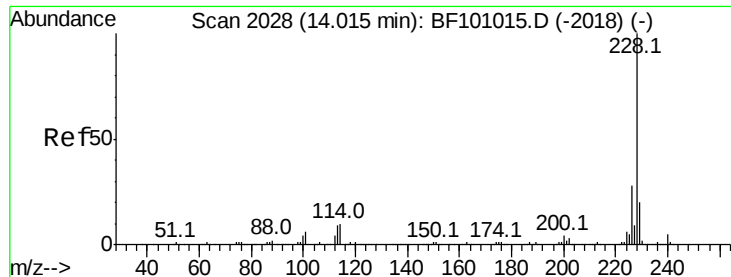
#78
Terphenyl-d14
Concen: 2.469 ng
RT: 12.95 min Scan# 1847
Delta R.T. -0.01 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Tgt Ion:244 Resp: 11046
Ion Ratio Lower Upper
244 100
212 8.3 5.4 8.0#
122 10.4 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 8.934 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.04 min

Lab File: BF101140.D

Acq: 5 Dec 2017 23:18

Instrument :

BNA_F

ClientSampleId :

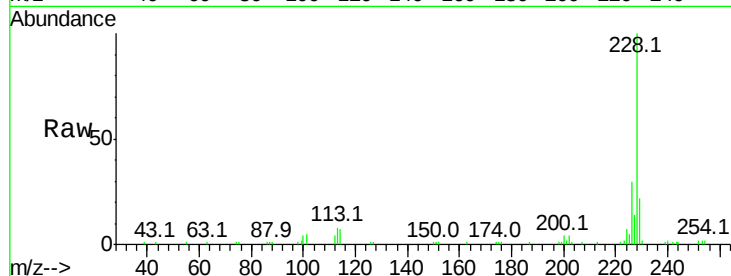
Tot Ion:228 Resp: 55206

Ion Ratio Lower Upper

228 100

226 30.2 22.6 33.8

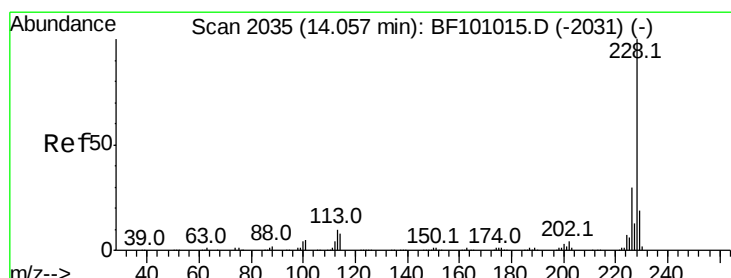
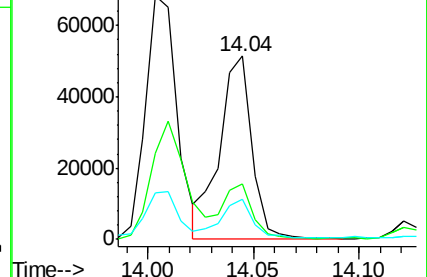
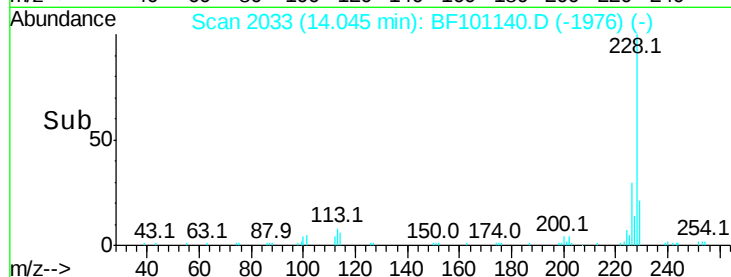
229 21.9 15.8 23.6



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: 9.620 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF101140.D

Acq: 5 Dec 2017 23:18

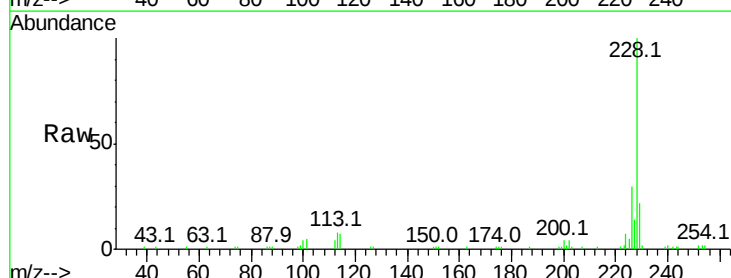
Tgt Ion:228 Resp: 55206

Ion Ratio Lower Upper

228 100

226 30.2 25.0 37.6

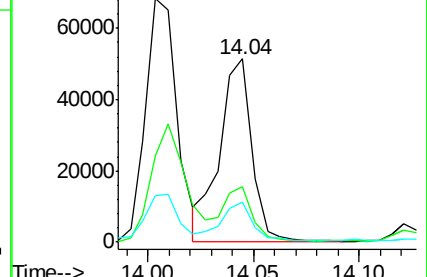
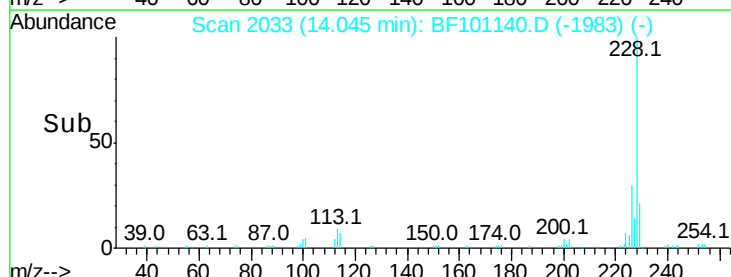
229 21.9 16.2 24.4

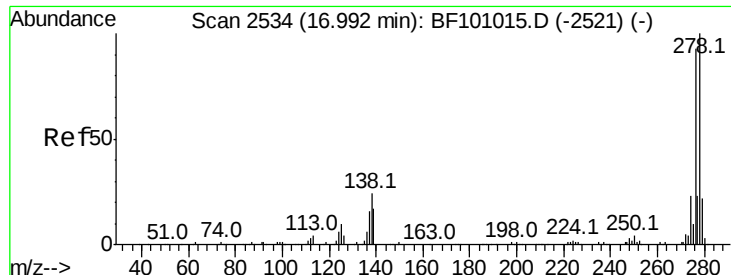


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

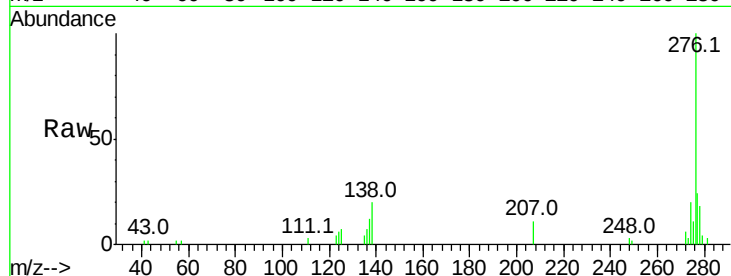




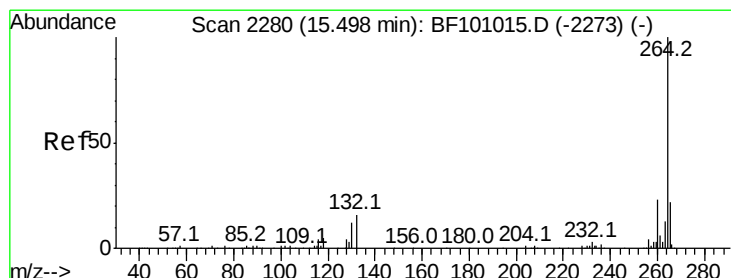
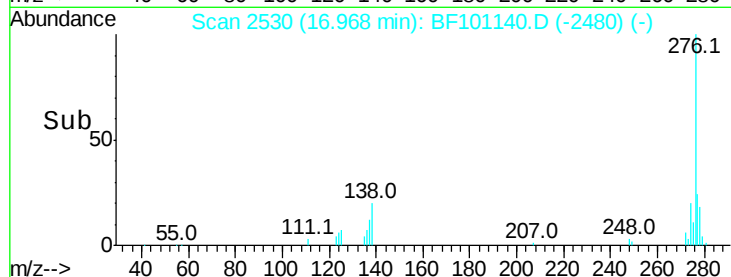
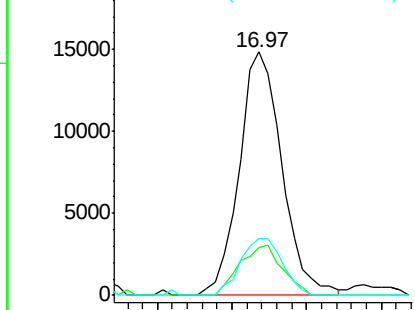
#85
Indeno(1,2,3-cd)pyrene
Concen: 5.765 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 29412
Ion Ratio Lower Upper
276 100
138 20.5 25.0 37.6#
277 22.9 20.1 30.1

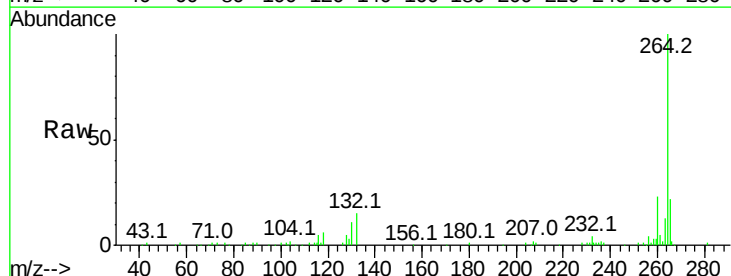


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

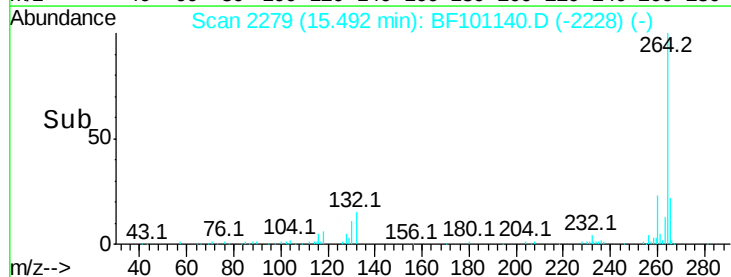
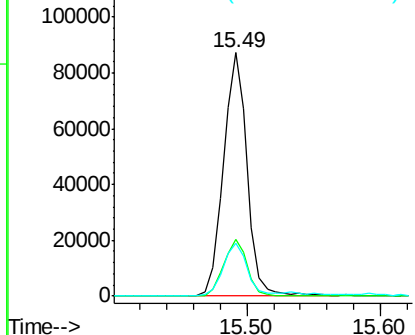


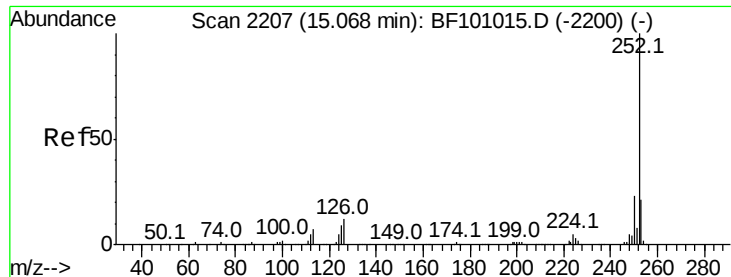
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF101140.D
Acq: 5 Dec 2017 23:18

Tgt Ion:264 Resp: 109002
Ion Ratio Lower Upper
264 100
260 23.4 19.2 28.8
265 21.7 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 12.584 ng

RT: 15.06 min Scan# 2206

Delta R.T. 0.00 min

Lab File: BF101140.D

Acq: 5 Dec 2017 23:18

Instrument :

BNA_F

ClientSampled :

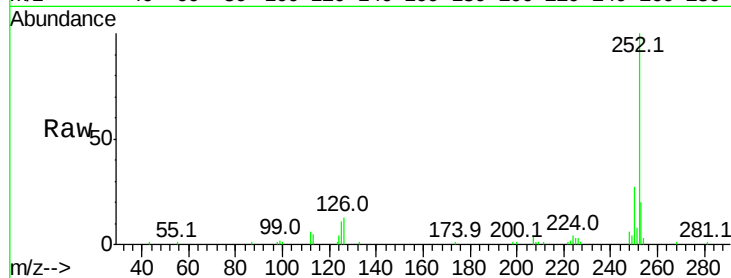
Tot Ion:252 Resp: 82163

Ion Ratio Lower Upper

252 100

253 20.1 17.0 25.6

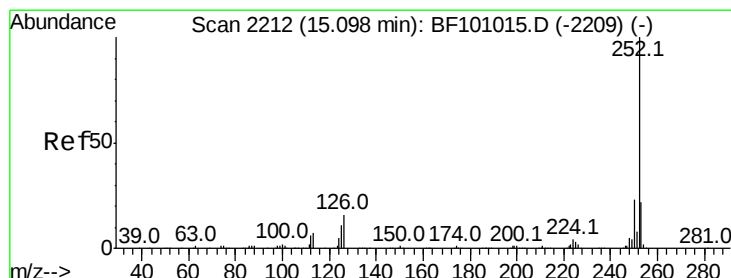
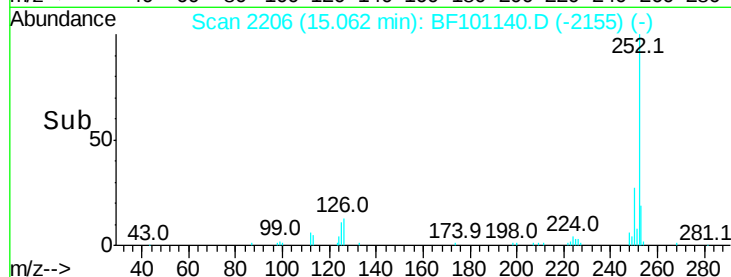
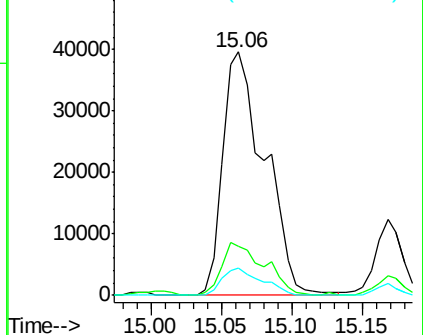
125 11.0 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 12.773 ng

RT: 15.06 min Scan# 2206

Delta R.T. -0.03 min

Lab File: BF101140.D

Acq: 5 Dec 2017 23:18

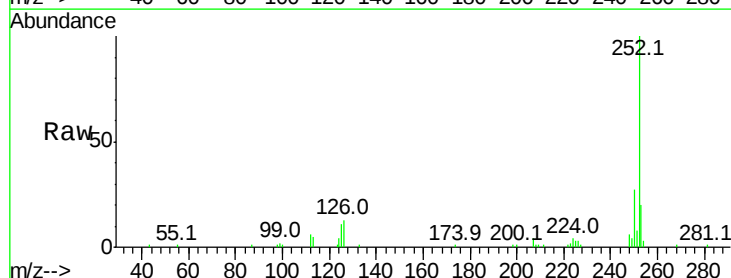
Tgt Ion:252 Resp: 82163

Ion Ratio Lower Upper

252 100

253 20.1 17.9 26.9

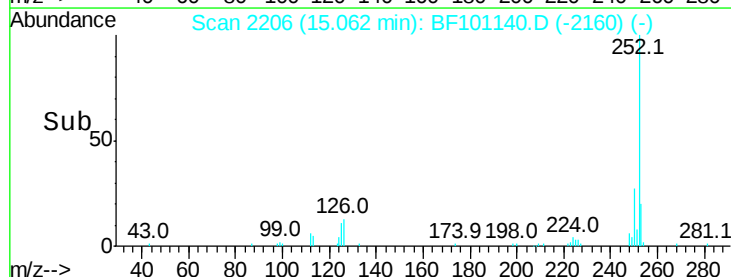
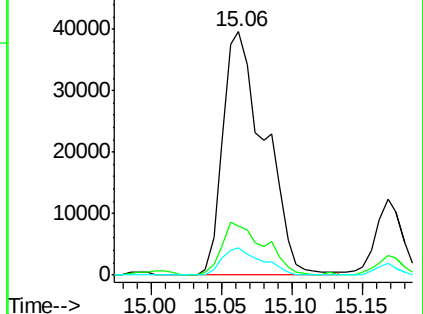
125 11.0 10.2 15.2

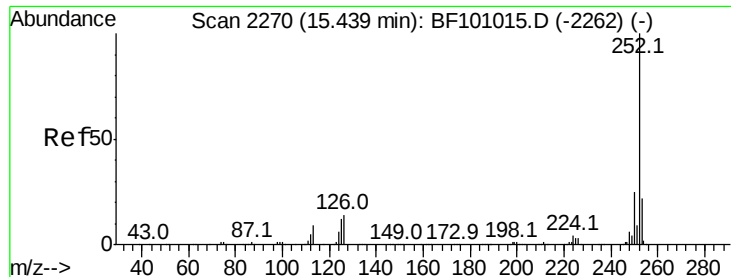


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 10.712 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.01 min

Lab File: BF101140.D

Acq: 5 Dec 2017 23:18

Instrument :

BNA_F

ClientSampleId :

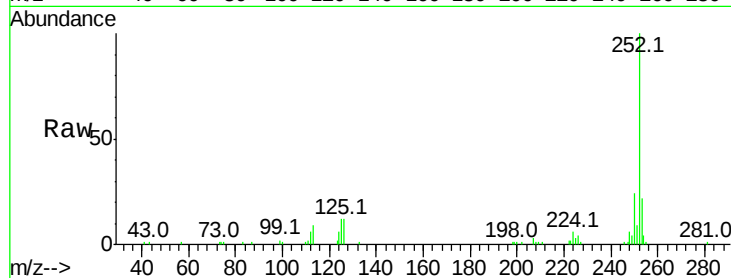
Tot Ion:252 Resp: 63580

Ion Ratio Lower Upper

252 100

253 22.3 17.1 25.7

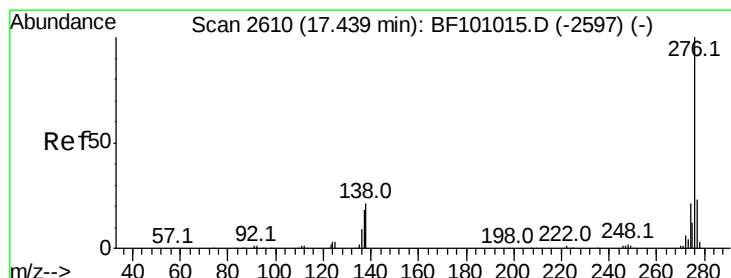
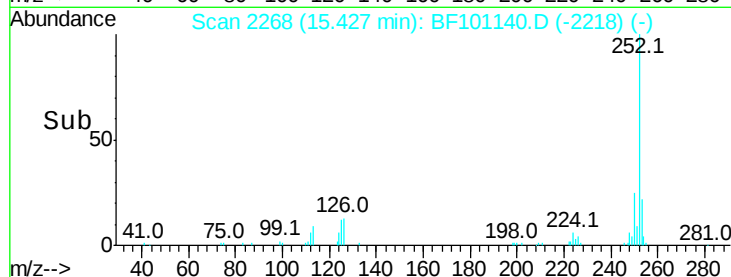
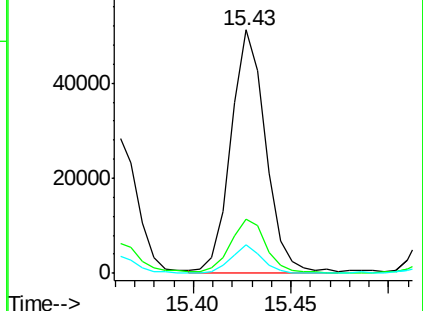
125 12.0 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.699 ng

RT: 17.66 min Scan# 2648

Delta R.T. 0.24 min

Lab File: BF101140.D

Acq: 5 Dec 2017 23:18

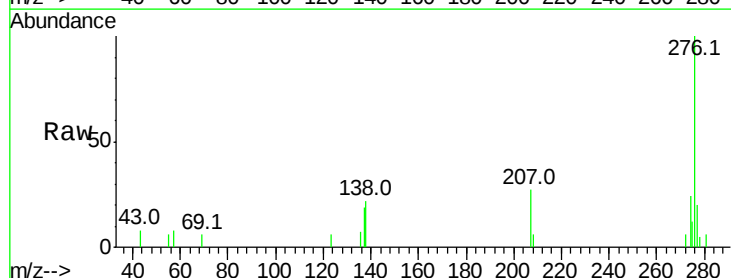
Tgt Ion:276 Resp: 13308

Ion Ratio Lower Upper

276 100

277 20.3 17.9 26.9

138 22.1 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

