

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101435.D
 Acq On : 15 Dec 2017 10:38
 Operator : SJ/JU
 Sample : I6844-01DL 500X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 15 12:28:02 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	166881	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	659399	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	297523	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	505828	20.00	ng	0.00
75) Chrysene-d12	13.99	240	335162	20.00	ng	-0.01
86) Perylene-d12	15.46	264	329971	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.47	99	123	0.01	ng	0.02
23) Nitrobenzene-d5	0.00	82	0	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.17	172	151	0.01	ng	0.00
78) Terphenyl-d14	12.93	244	747	0.05	ng	0.00

Target Compounds

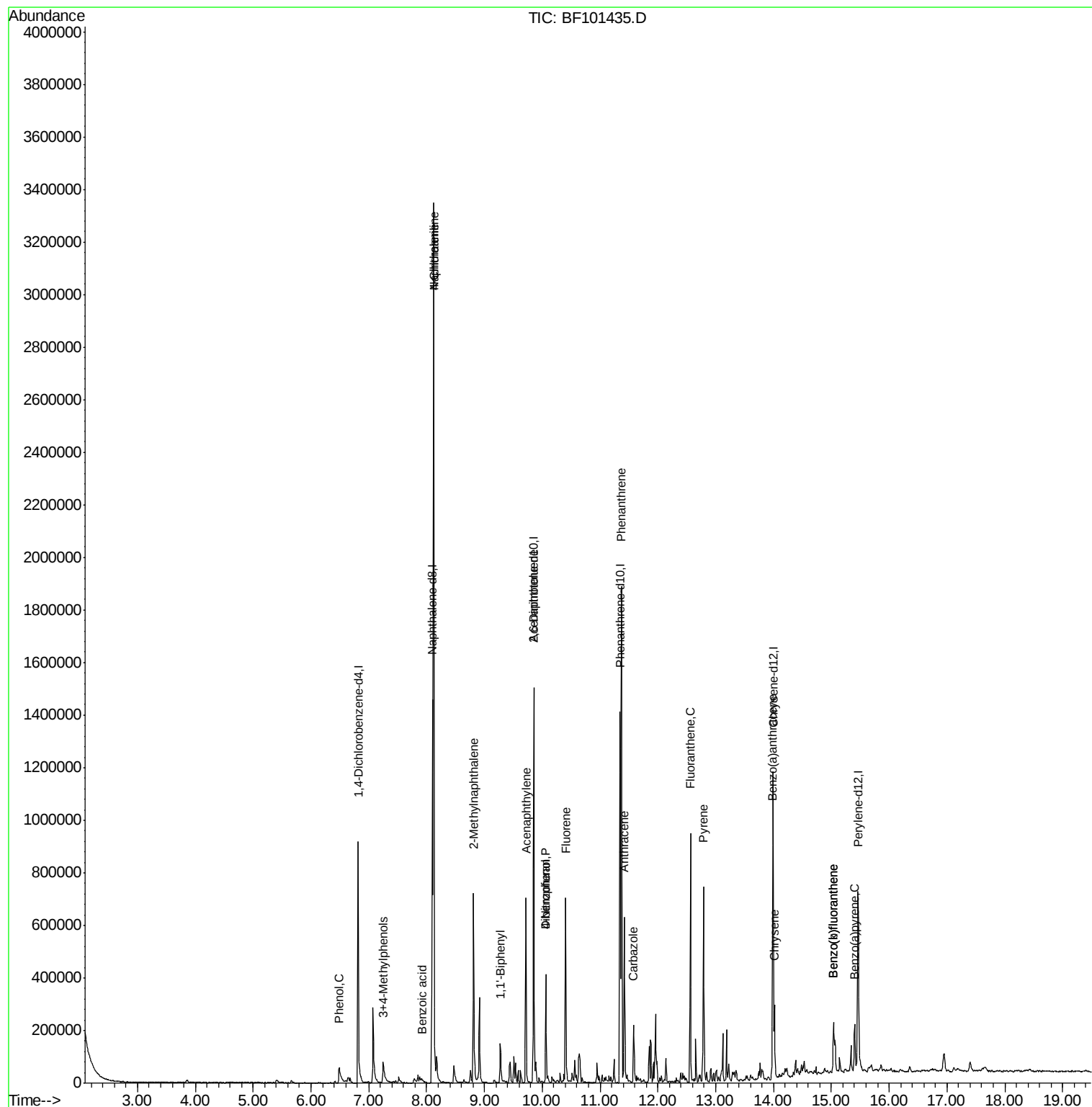
						Qvalue
10) Phenol	6.49	94	61614	3.877	ng	97
20) 3+4-Methylphenols	7.25	107	44476	3.872	ng	90
31) Naphthalene	8.12	128	1594007	48.017	ng	100
32) Benzoic acid	7.92	122	7554	8.938	ng	# 14
33) 4-Chloroaniline	8.12	127	214447	14.863	ng	# 34
37) 2-Methylnaphthalene	8.81	142	230695	10.666	ng	97
45) 1,1'-Biphenyl	9.27	154	55734	2.112	ng	99
48) Acenaphthylene	9.72	152	304341	9.544	ng	99
50) 2,6-Dinitrotoluene	9.85	165	40542	8.335	ng	# 26
54) Dibenzofuran	10.06	168	190073	7.807	ng	98
55) 4-Nitrophenol	10.06	139	70772	26.765	ng	# 10
57) Fluorene	10.40	166	230037	11.169	ng	99
70) Phenanthrene	11.37	178	677920	24.100	ng	99
71) Anthracene	11.42	178	274305	9.546	ng	98
72) Carbazole	11.58	167	91571	3.404	ng	99
74) Fluoranthene	12.56	202	405826	13.745	ng	96
77) Pyrene	12.79	202	294278	11.699	ng	99
80) Benzo(a)anthracene	13.98	228	129586	5.855	ng	97
82) Chrysene	14.02	228	105027	5.026	ng	98
87) Benzo(b)fluoranthene	15.04	252	146146	7.266	ng	96
88) Benzo(k)fluoranthene	15.04	252	146146	7.474	ng	99
89) Benzo(a)pyrene	15.40	252	83677	4.513	ng	98

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

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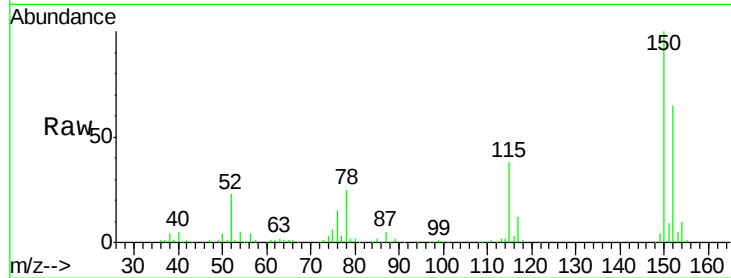


#1

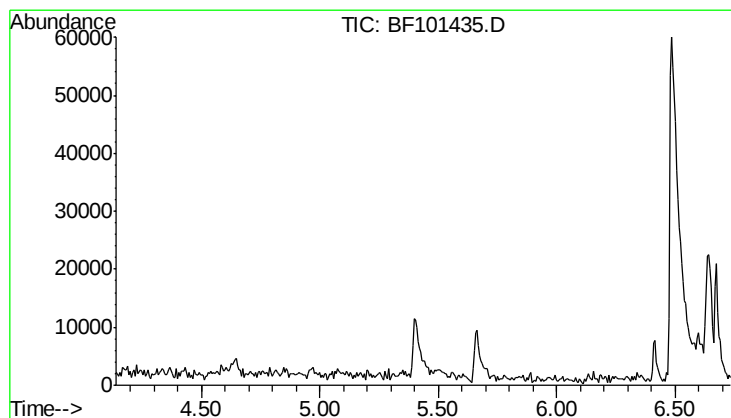
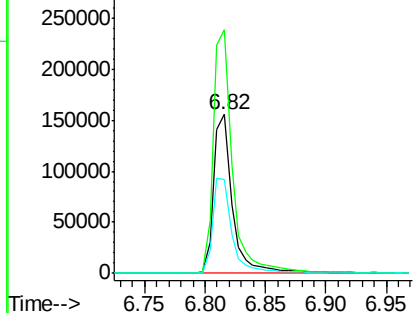
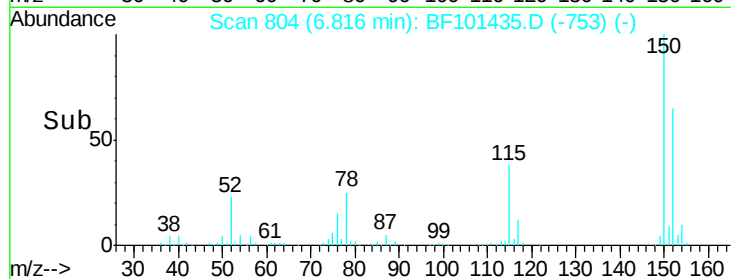
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 166881
Ion Ratio Lower Upper
152 100
150 153.2 124.6 186.8
115 59.0 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

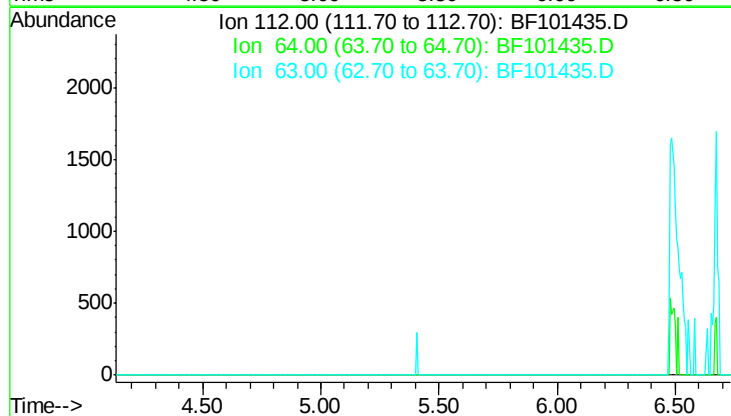


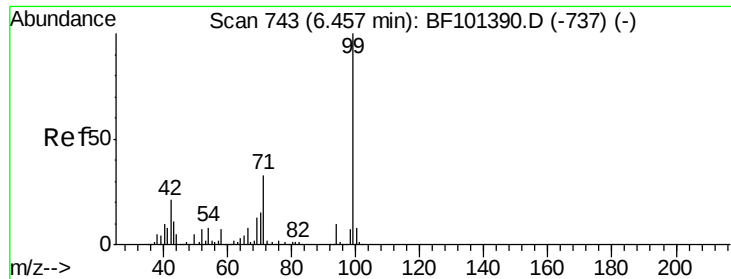
#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.43 min

Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion: 112
Sig Exp Ratio
112 100
64 59.9
63 29.6





#7

Phenol-d6

Concen: 0.009 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.02 min

Lab File: BF101435.D

Acq: 15 Dec 2017 10:38

Instrument :

BNA_F

ClientSampleId :

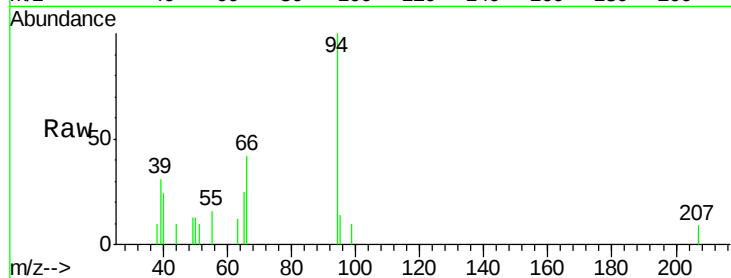
Tot Ion: 99 Resp: 123

Ion Ratio Lower Upper

99 100

42 0.0 14.5 21.7#

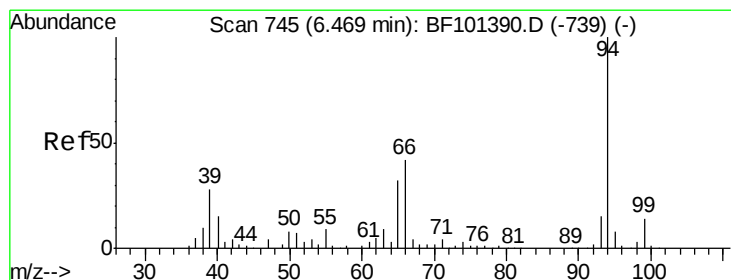
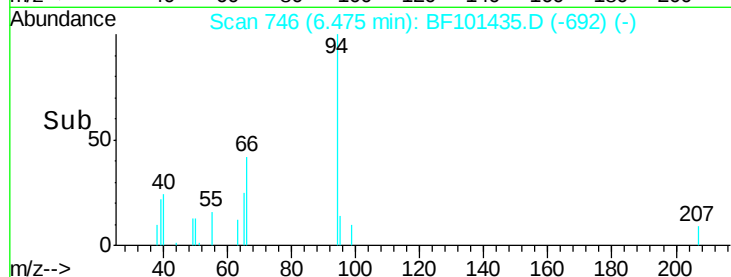
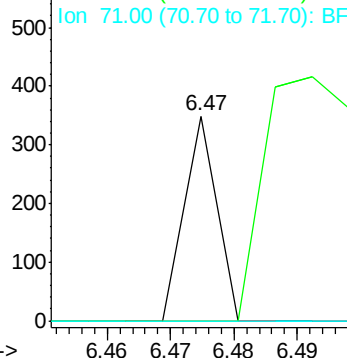
71 0.0 25.4 38.0#



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



#10

Phenol

Concen: 3.877 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.02 min

Lab File: BF101435.D

Acq: 15 Dec 2017 10:38

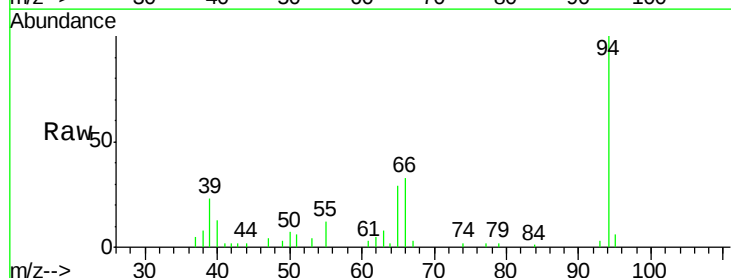
Tgt Ion: 94 Resp: 61614

Ion Ratio Lower Upper

94 100

65 28.8 7.9 47.9

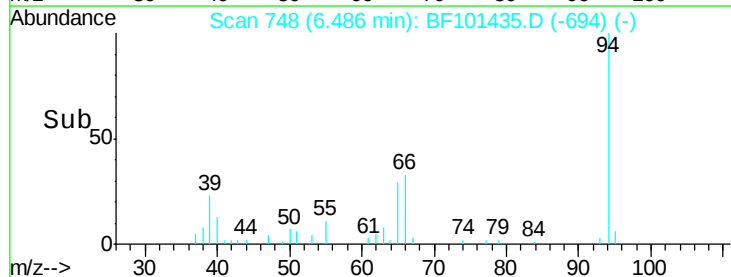
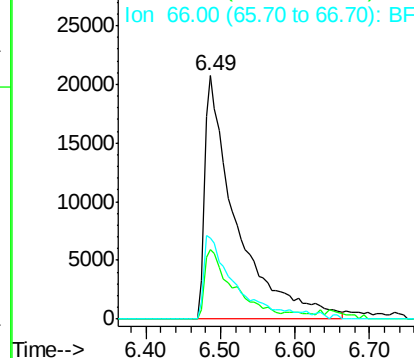
66 33.3 16.2 56.2

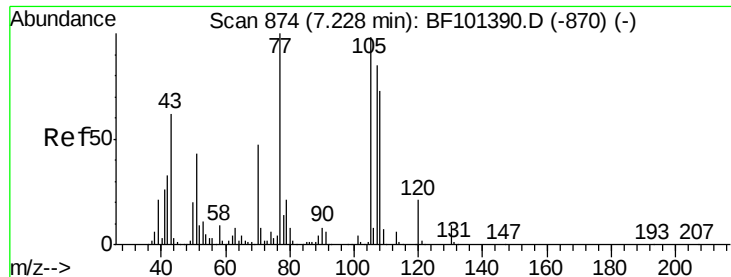


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

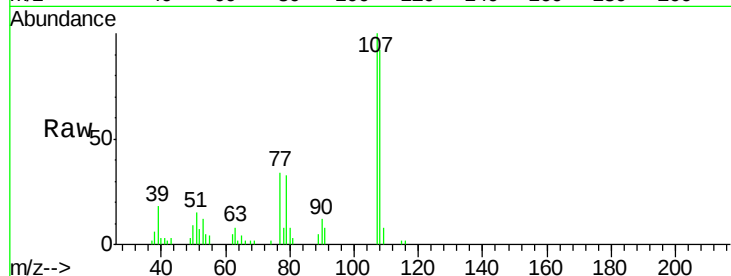




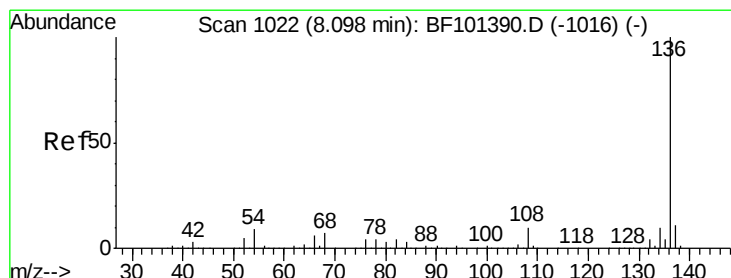
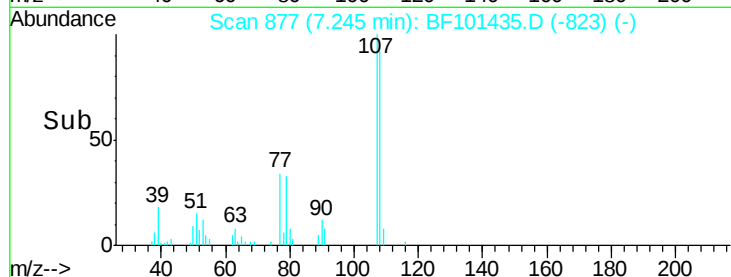
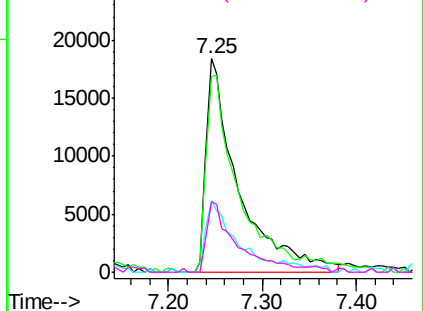
#20
3+4-Methylphenols
Concen: 3.872 ng
RT: 7.25 min Scan# 877
Delta R.T. 0.02 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:107 Resp: 44476
Ion Ratio Lower Upper
107 100
108 92.0 68.2 108.2
77 33.6 26.7 66.7
79 33.1 6.3 46.3

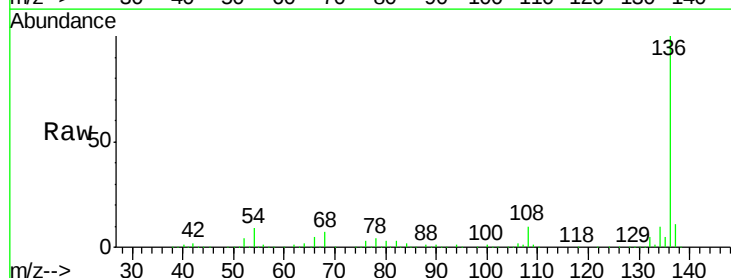


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1

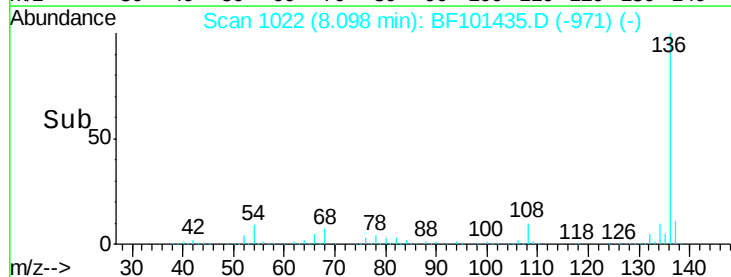
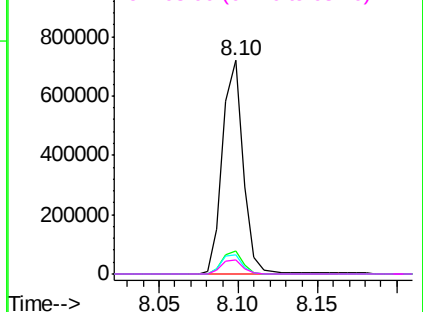


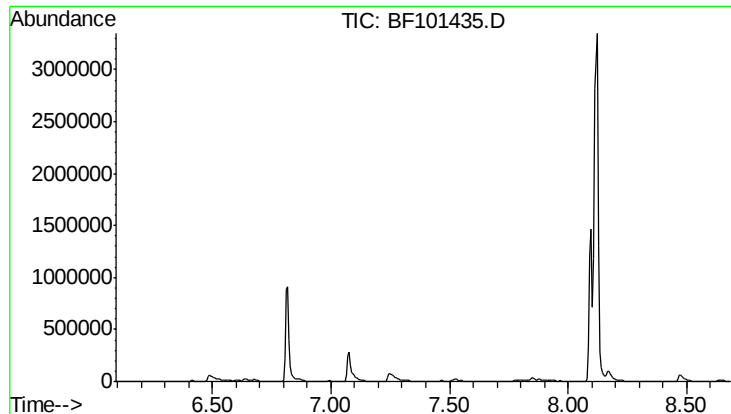
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion:136 Resp: 659399
Ion Ratio Lower Upper
136 100
137 10.6 8.9 13.3
54 8.9 6.6 9.8
68 6.5 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

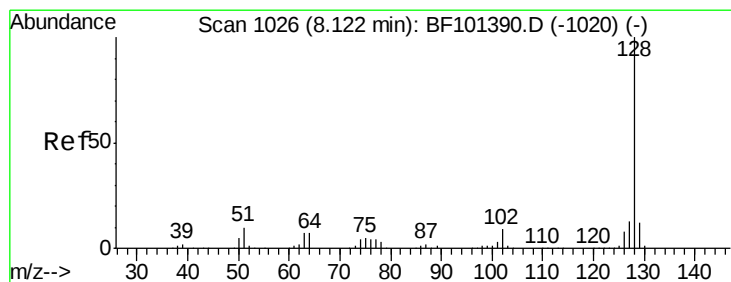
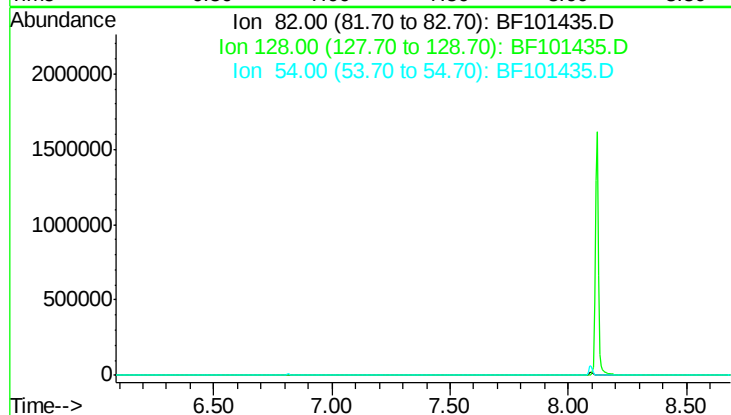




#23
 Nitrobenzene-d5
 Concen: 0.000 ng
 Expected RT: 7.39 min
 Lab File: BF101435.D
 Acq: 15 Dec 2017 10:38

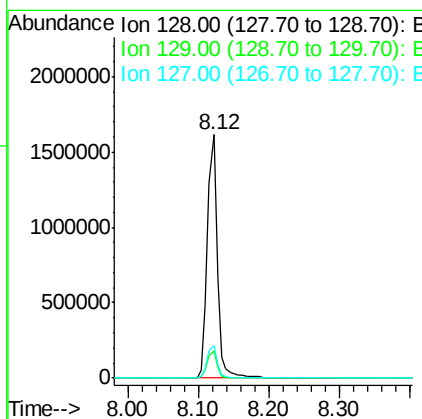
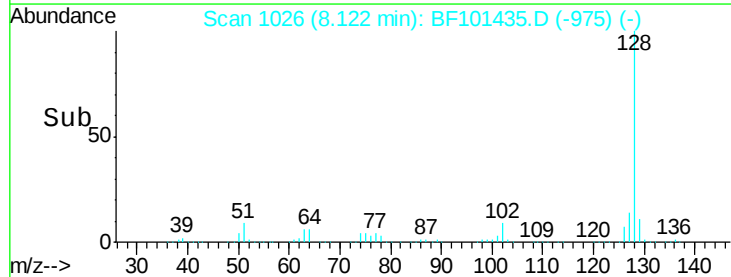
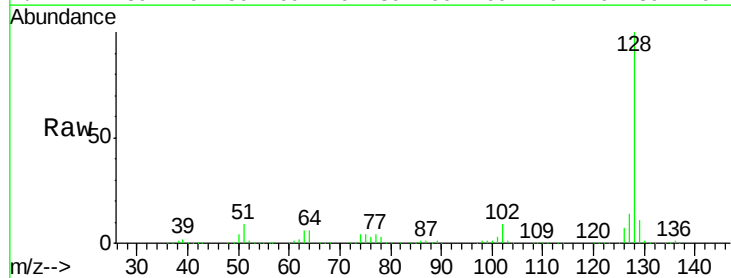
Instrument :
 BNA_F
 ClientSampleId :

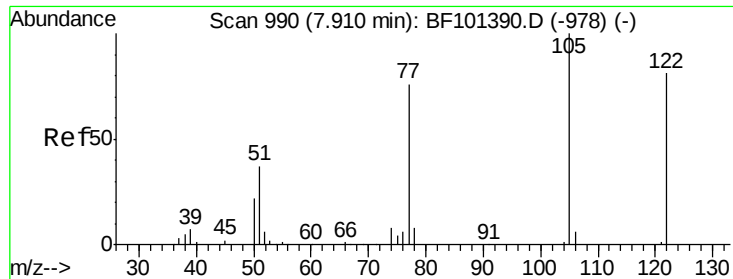
Tot Ion	82
Sig	Exp Ratio
82	100
128	45.1
54	51.8



#31
 Naphthalene
 Concen: 48.017 ng
 RT: 8.12 min Scan# 1026
 Delta R.T. -0.00 min
 Lab File: BF101435.D
 Acq: 15 Dec 2017 10:38

Tgt Ion	128	Resp	1594007
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.8	13.2
127	13.6	10.9	16.3

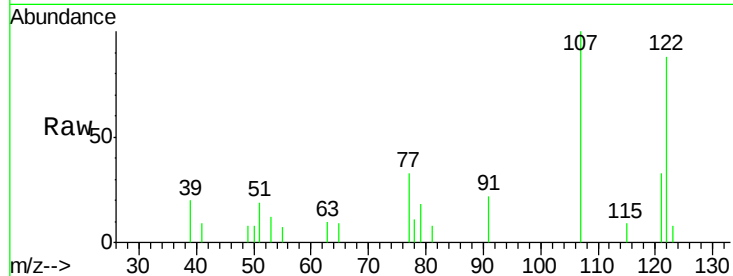




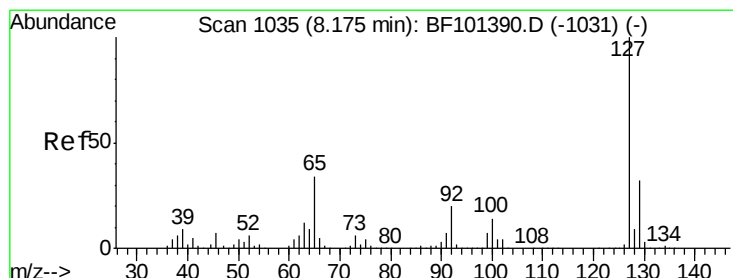
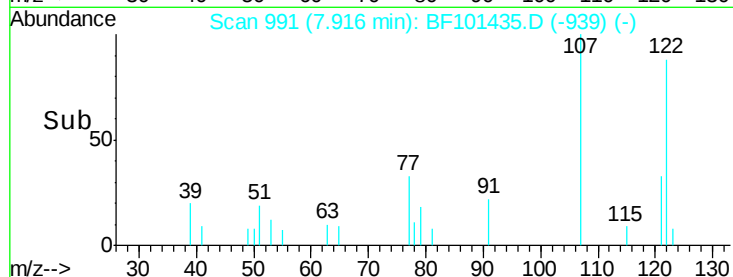
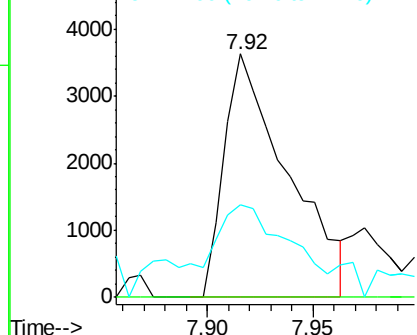
#32
Benzoic acid
Concen: 8.938 ng
RT: 7.92 min Scan# 991
Delta R.T. 0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:122 Resp: 7554
Ion Ratio Lower Upper
122 100
105 0.0 101.1 141.1#
77 38.0 70.7 110.7#

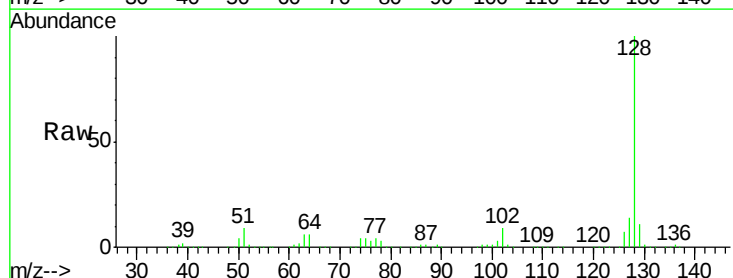


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF1

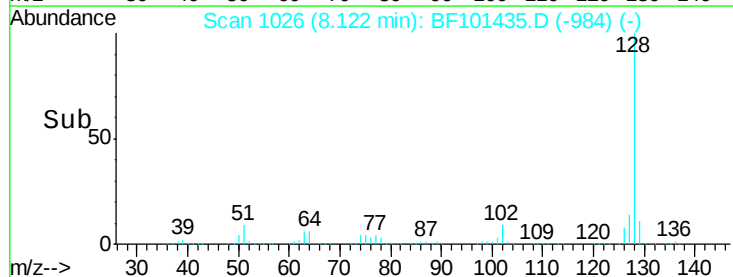
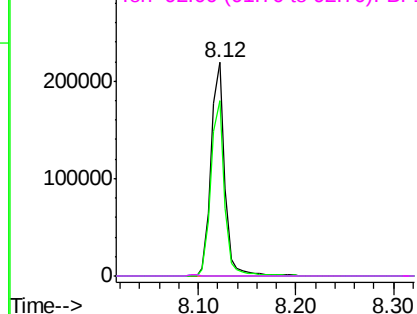


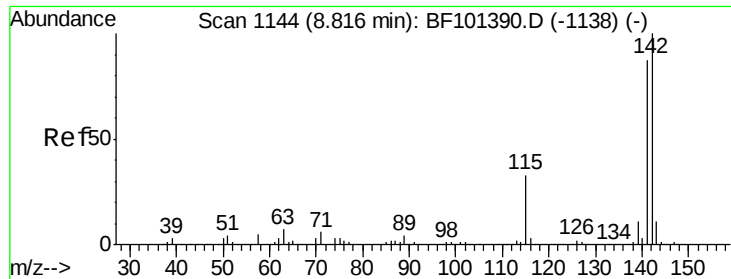
#33
4-Chloroaniline
Concen: 14.863 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.05 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion:127 Resp: 214447
Ion Ratio Lower Upper
127 100
129 81.9 25.9 38.9#
65 0.0 25.0 37.4#
92 0.0 15.2 22.8#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1

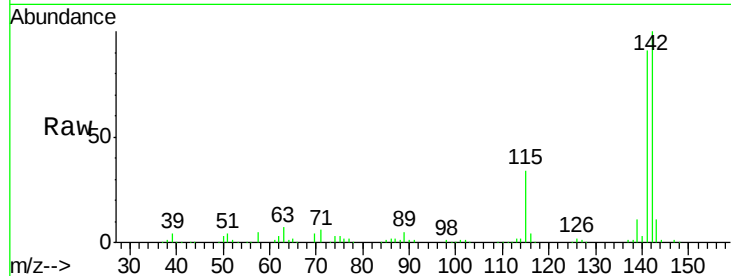




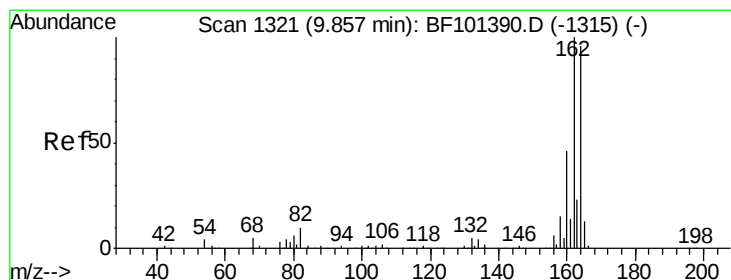
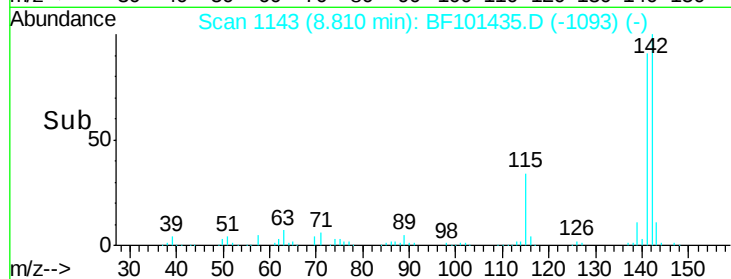
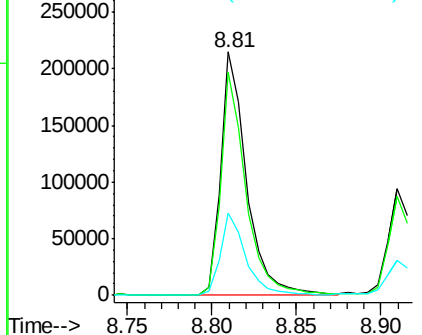
#37
 2-Methylnaphthalene
 Concen: 10.666 ng
 RT: 8.81 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: BF101435.D
 Acq: 15 Dec 2017 10:38

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	142	Resp:	230695
Ion	Ratio	Lower	Upper
142	100		
141	91.5	70.8	106.2
115	33.7	26.1	39.1

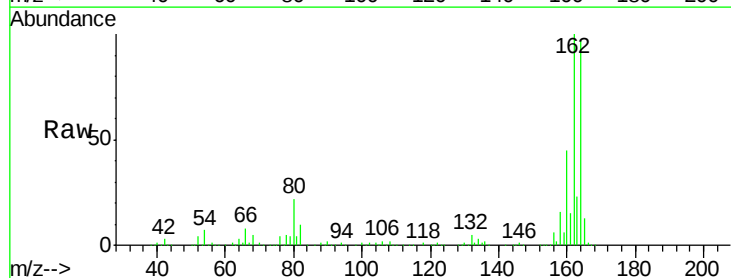


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

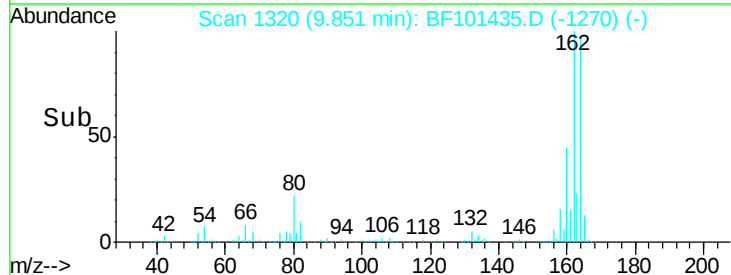
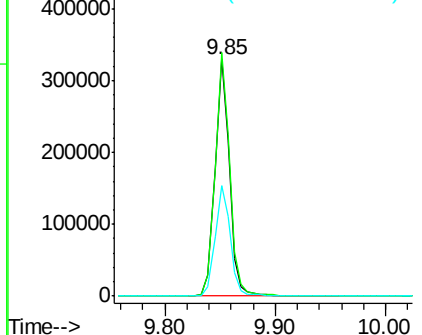


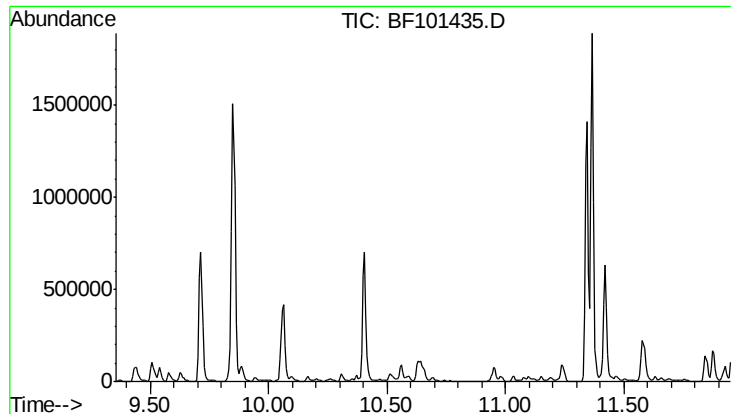
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: BF101435.D
 Acq: 15 Dec 2017 10:38

Tgt Ion:	164	Resp:	297523
Ion	Ratio	Lower	Upper
164	100		
162	102.9	86.1	129.1
160	46.6	38.3	57.5



Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 10.65 min

Lab File: BF101435.D

Acq: 15 Dec 2017 10:38

Instrument :

BNA_F

ClientSampleId :

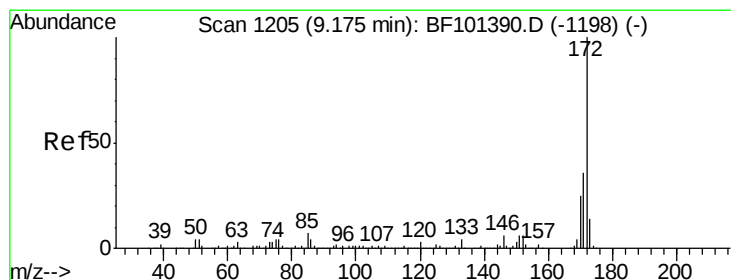
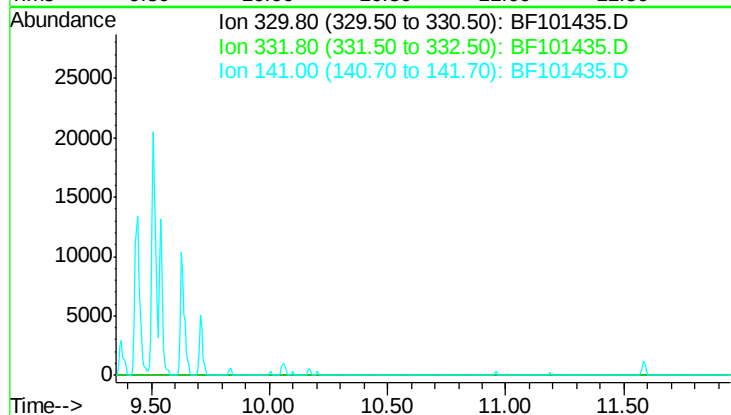
Tot Ion: 330

Sig Exp Ratio

330 100

332 96.3

141 37.4



#44

2-Fluorobiphenyl

Concen: 0.008 ng

RT: 9.17 min Scan# 1205

Delta R.T. -0.00 min

Lab File: BF101435.D

Acq: 15 Dec 2017 10:38

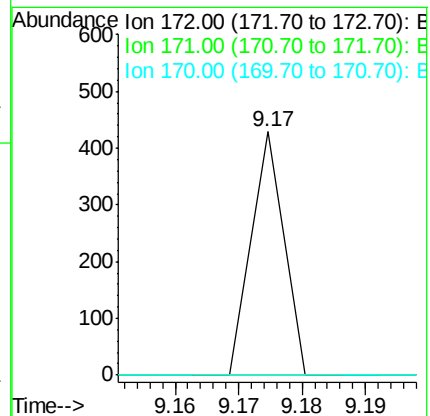
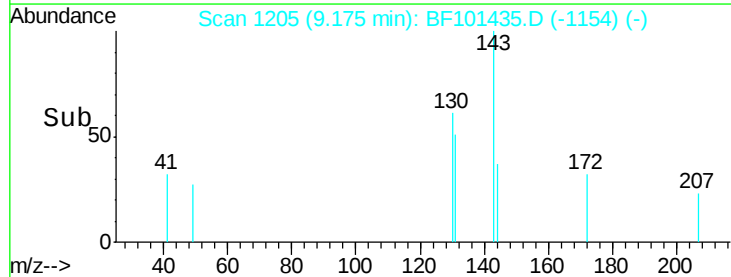
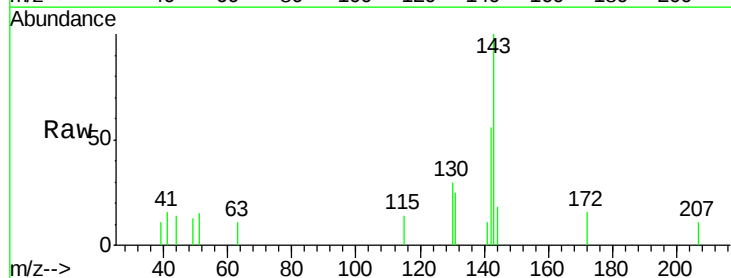
Tgt Ion: 172 Resp: 151

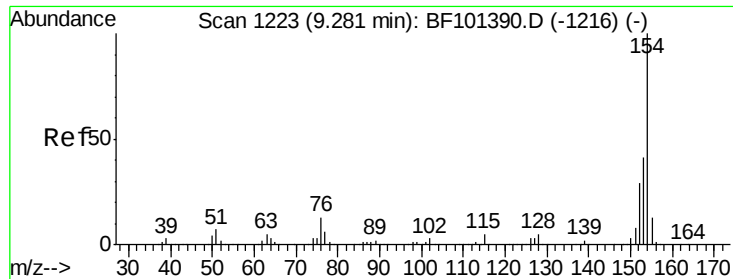
Ion Ratio Lower Upper

172 100

171 0.0 29.7 44.5#

170 0.0 19.6 29.4#





#45

1,1'-Biphenyl

Concen: 2.112 ng

RT: 9.27 min Scan# 1222

Delta R.T. -0.01 min

Lab File: BF101435.D

Acq: 15 Dec 2017 10:38

Instrument :

BNA_F

ClientSampleId :

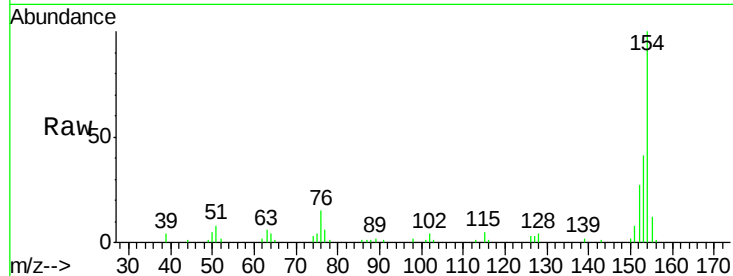
Tot Ion:154 Resp: 55734

Ion Ratio Lower Upper

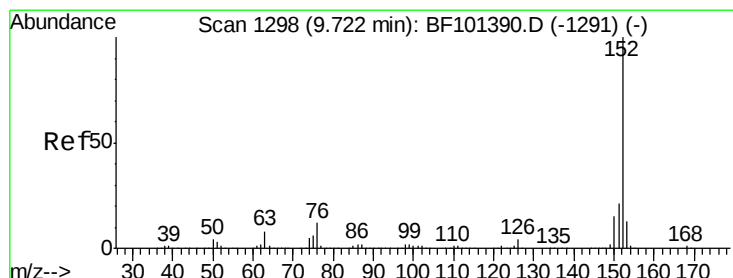
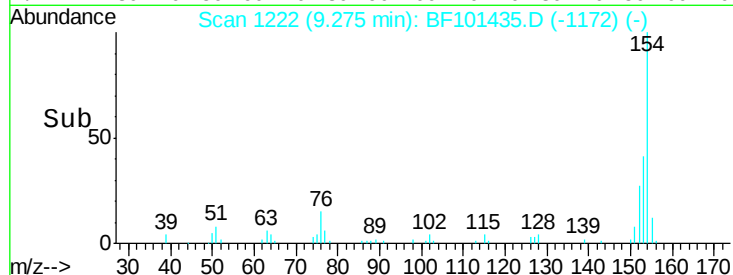
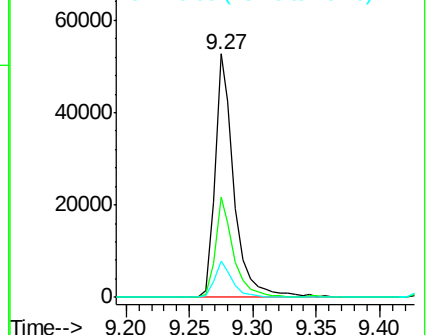
154 100

153 41.0 21.3 61.3

76 14.8 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 9.544 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF101435.D

Acq: 15 Dec 2017 10:38

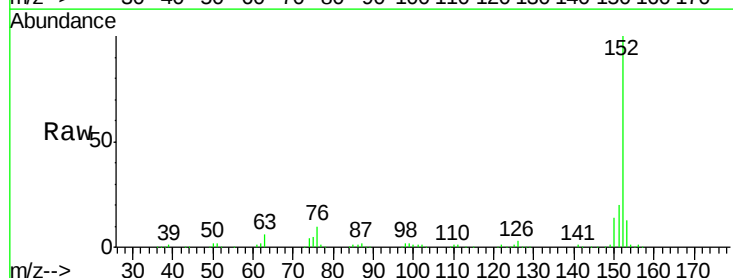
Tgt Ion:152 Resp: 304341

Ion Ratio Lower Upper

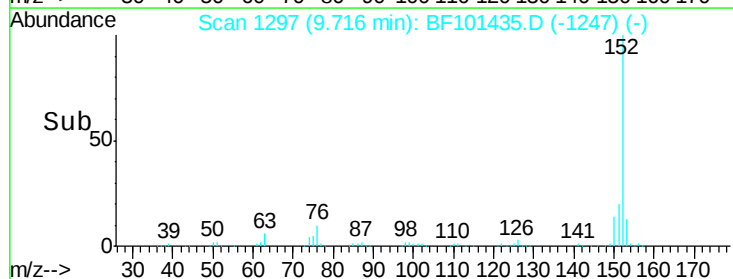
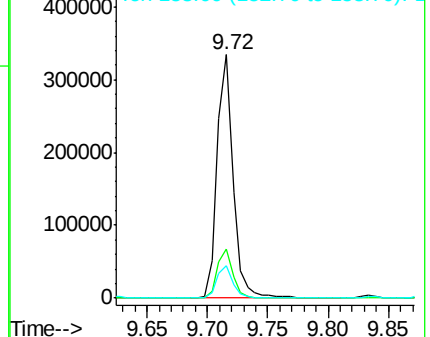
152 100

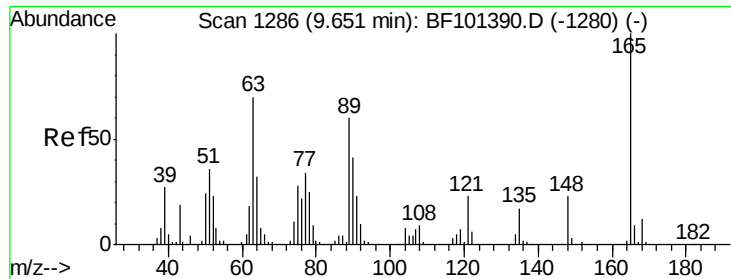
151 20.0 16.3 24.5

153 13.4 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

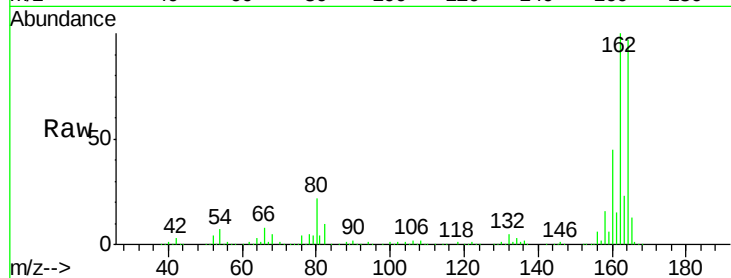




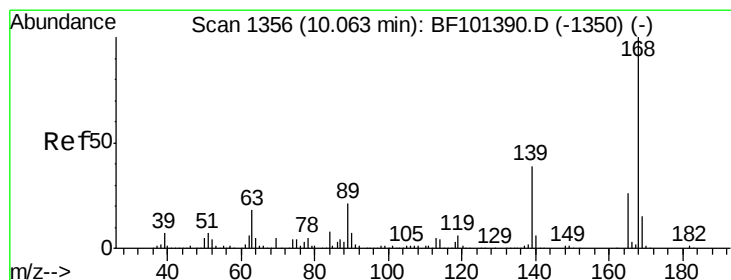
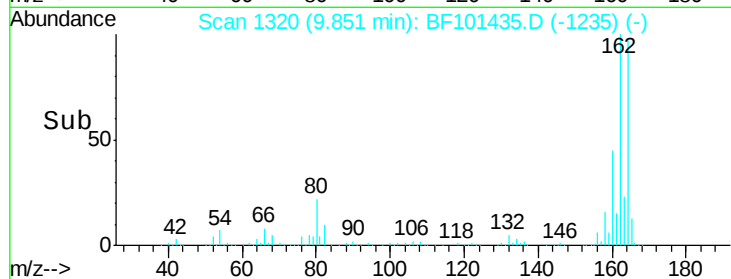
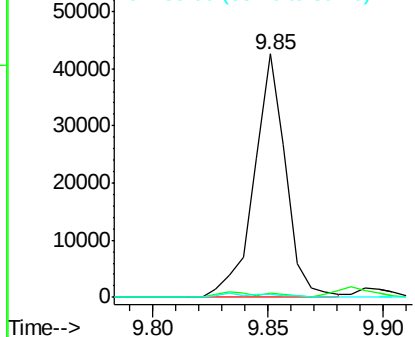
#50
2,6-Dinitrotoluene
Concen: 8.335 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.20 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	44.7	67.1#
89	1.4	44.0	66.0#

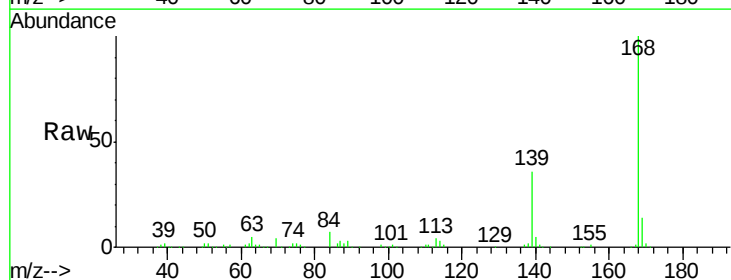


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

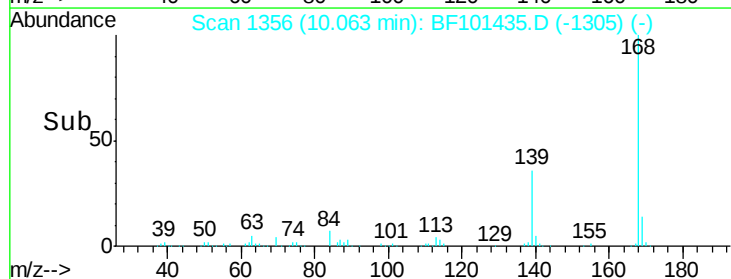
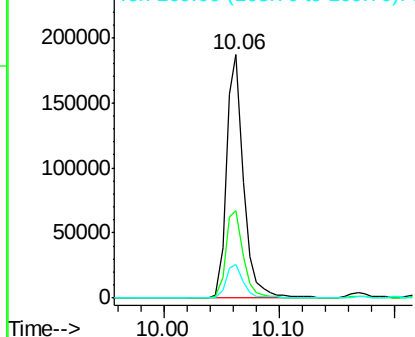


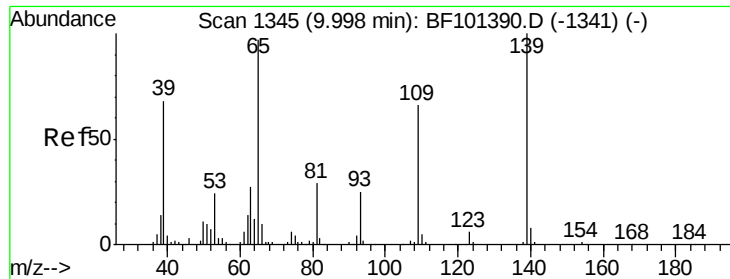
#54
Dibenzofuran
Concen: 7.807 ng
RT: 10.06 min Scan# 1356
Delta R.T. -0.00 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.9	30.1	45.1
169	13.7	10.9	16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

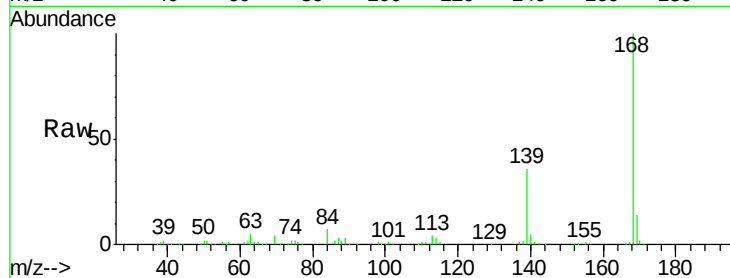




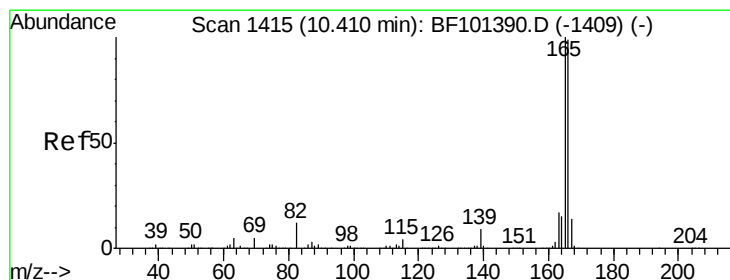
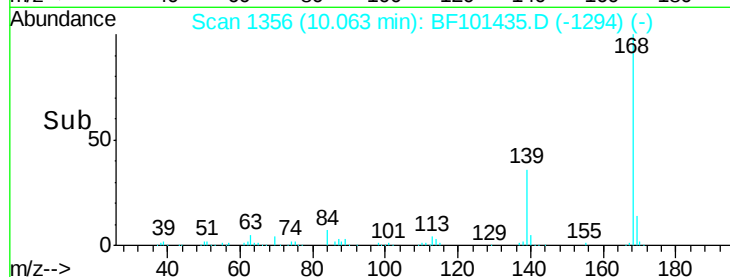
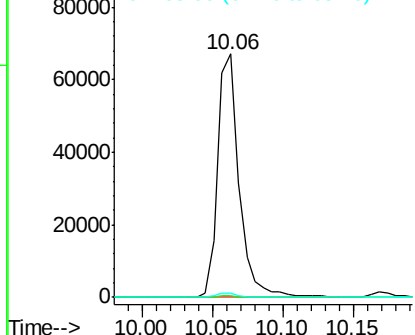
#55
4-Nitrophenol
Concen: 26.765 ng
RT: 10.06 min Scan# 1356
Delta R.T. 0.06 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 70772
Ion Ratio Lower Upper
139 100
109 0.7 48.4 88.4#
65 1.7 72.6 112.6#

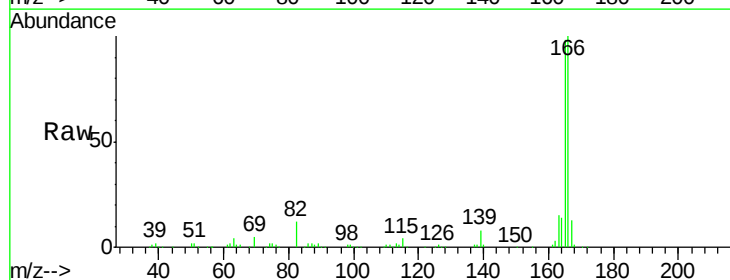


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

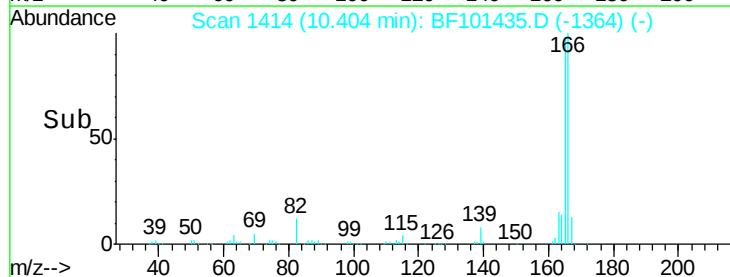
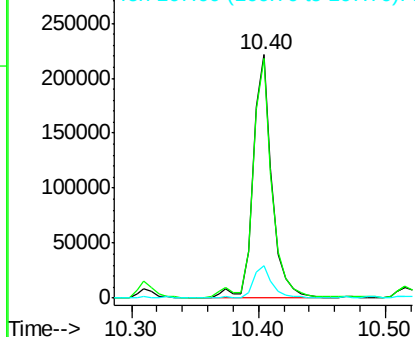


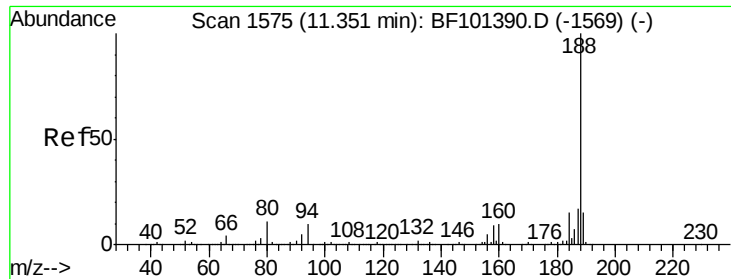
#57
Fluorene
Concen: 11.169 ng
RT: 10.40 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion:166 Resp: 230037
Ion Ratio Lower Upper
166 100
165 98.3 79.8 119.8
167 13.1 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

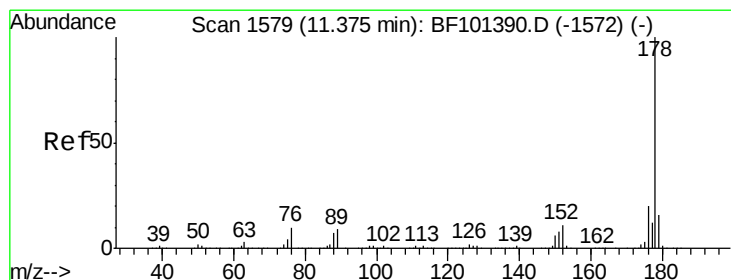
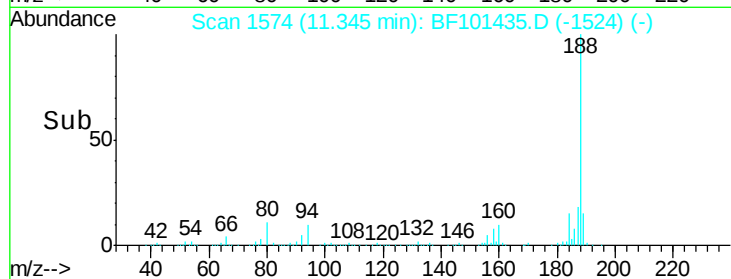
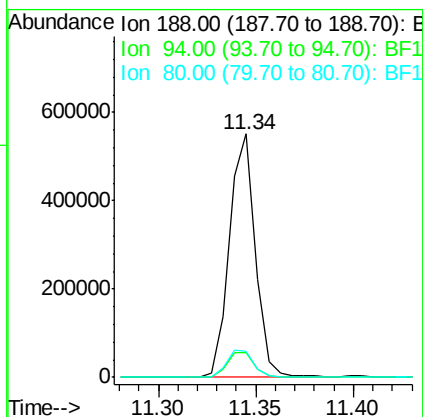
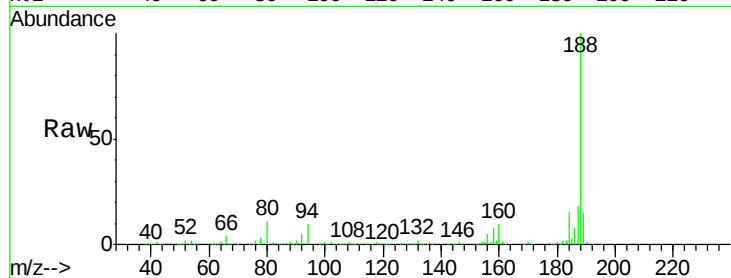




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF101435.D
 Acq: 15 Dec 2017 10:38

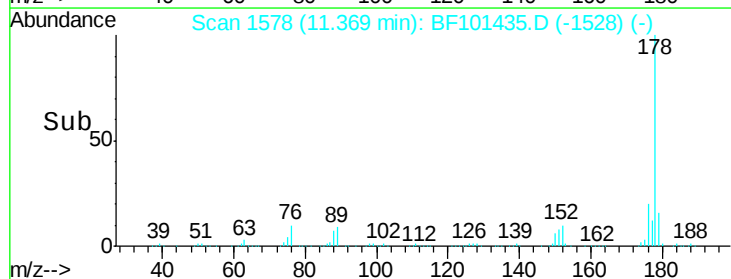
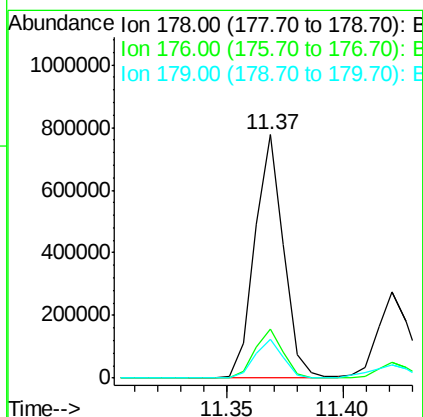
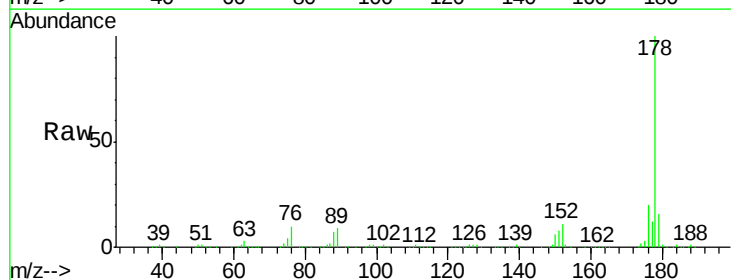
Instrument :
 BNA_F
 ClientSampleId :

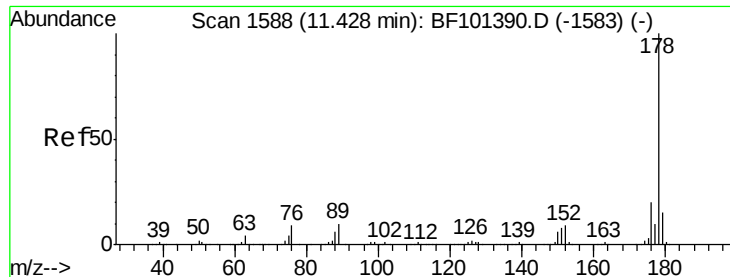
Tot Ion:188 Resp: 505828
 Ion Ratio Lower Upper
 188 100
 94 10.2 8.5 12.7
 80 10.7 9.2 13.8



#70
 Phenanthrene
 Concen: 24.100 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.01 min
 Lab File: BF101435.D
 Acq: 15 Dec 2017 10:38

Tgt Ion:178 Resp: 677920
 Ion Ratio Lower Upper
 178 100
 176 20.1 15.8 23.8
 179 15.7 13.0 19.6

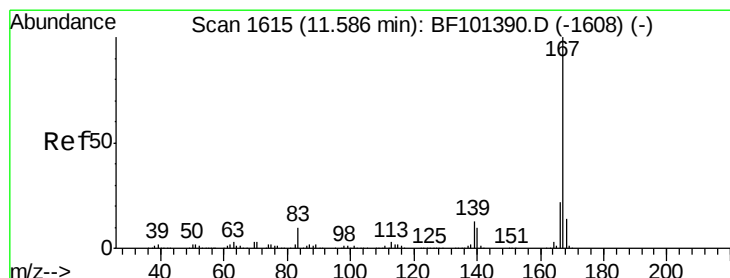
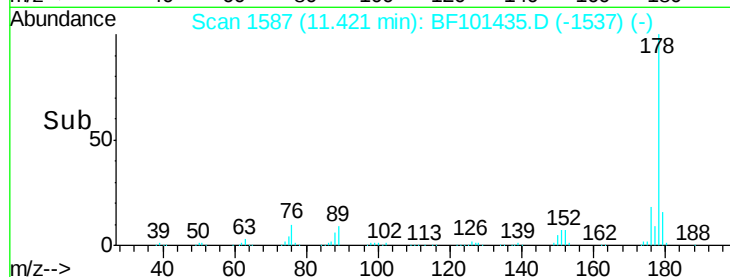
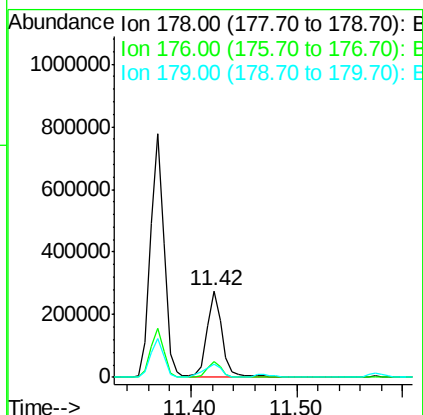
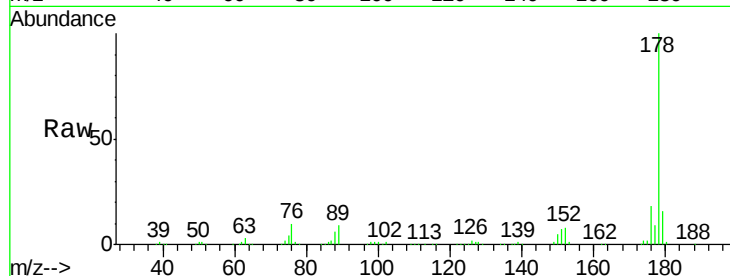




#71
 Anthracene
 Concen: 9.546 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF101435.D
 Acq: 15 Dec 2017 10:38

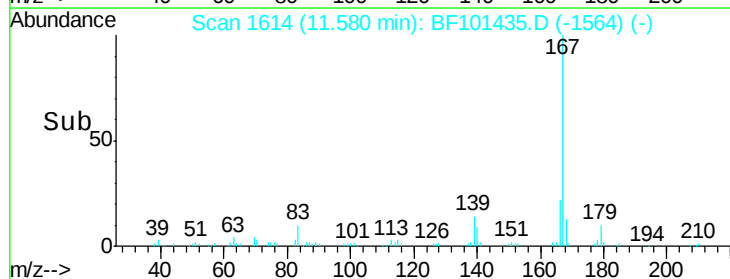
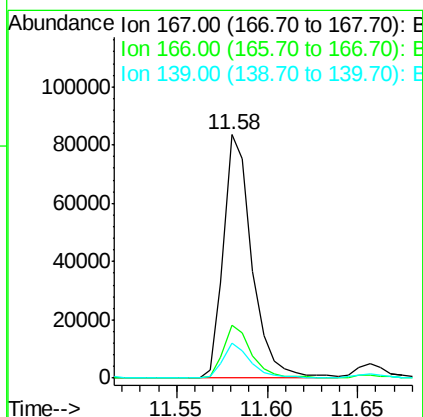
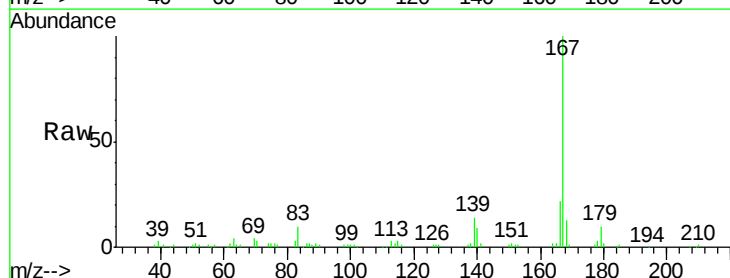
Instrument :
 BNA_F
 ClientSampleId :

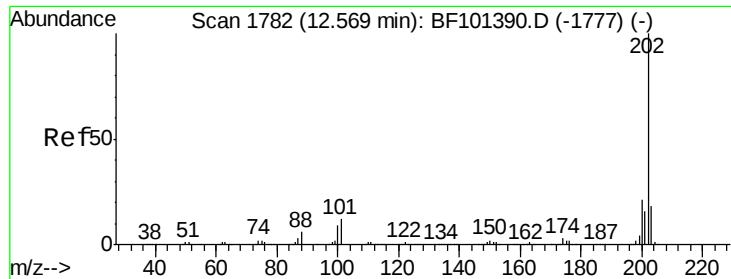
Tot Ion:178 Resp: 274305
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.4 23.2
 179 15.6 12.6 19.0



#72
 Carbazole
 Concen: 3.404 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF101435.D
 Acq: 15 Dec 2017 10:38

Tgt Ion:167 Resp: 91571
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.6 26.4
 139 14.4 10.9 16.3

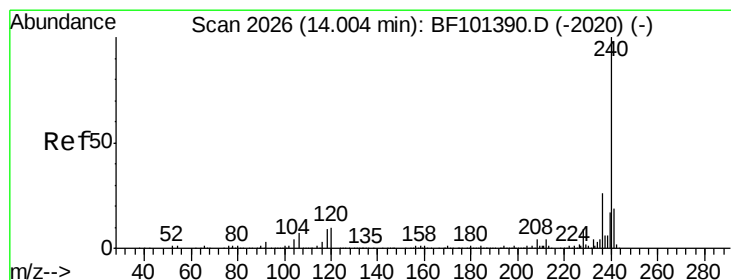
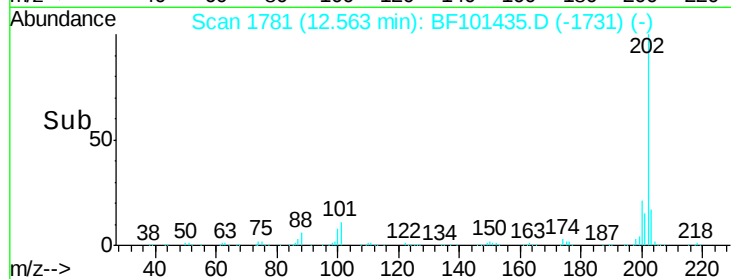
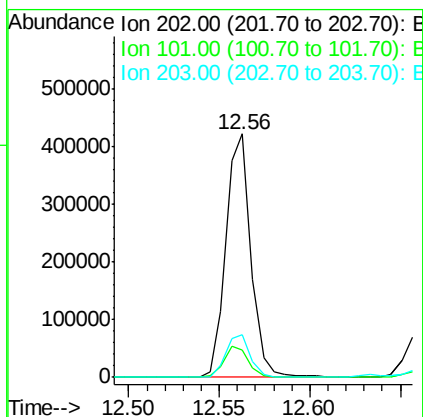
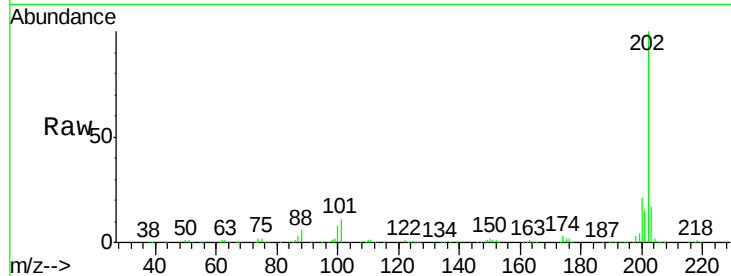




#74
Fluoranthene
Concen: 13.745 ng
RT: 12.56 min Scan# 1781
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

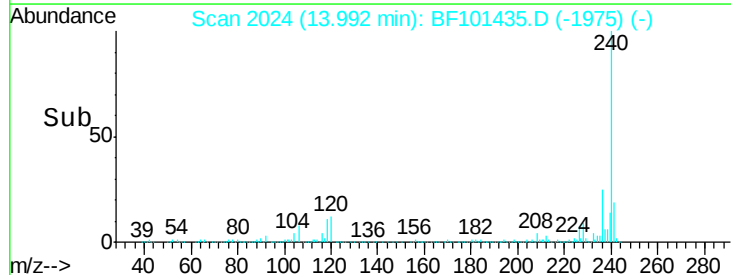
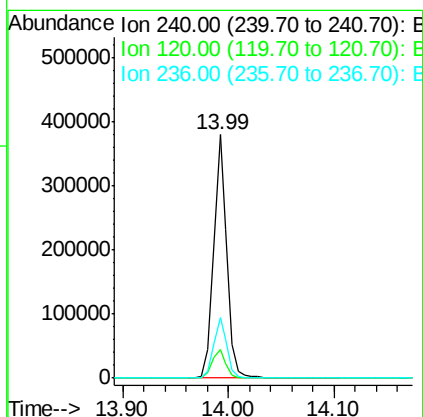
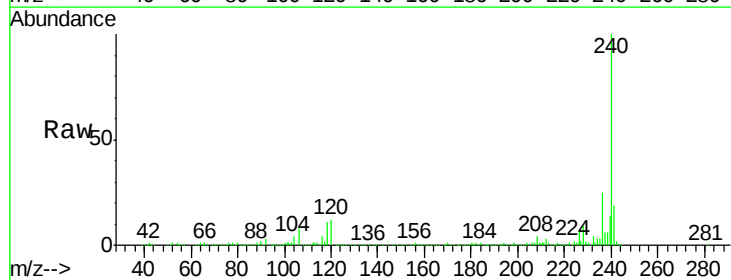
Instrument :
BNA_F
ClientSampled :

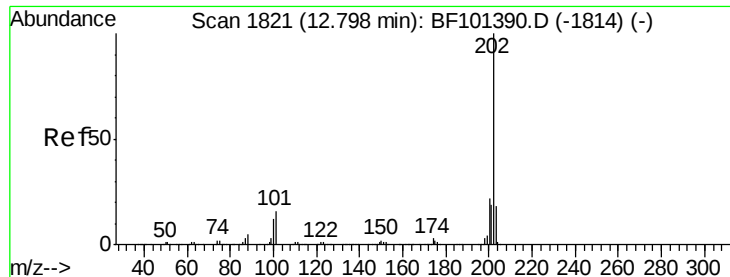
Tot Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	34.1
203	17.4	0.0	38.1



#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.5	14.3
236	24.8	20.7	31.1

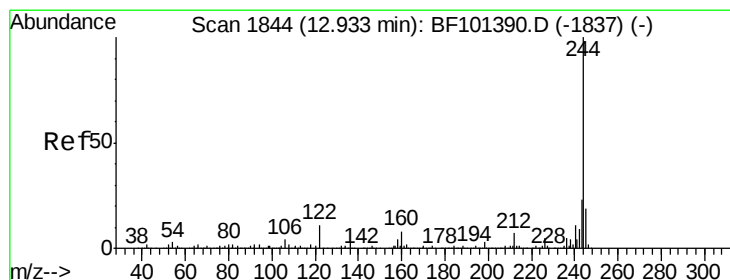
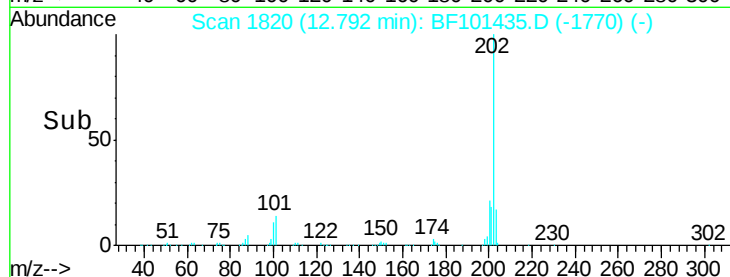
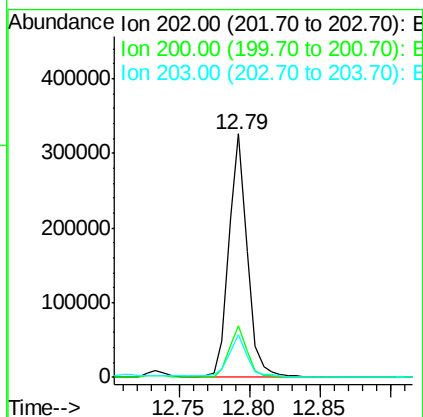
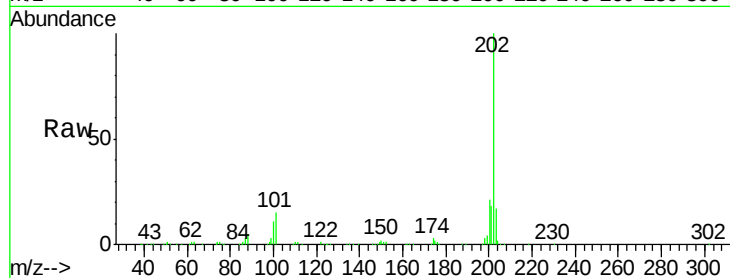




#77
Pvrene
Concen: 11.699 ng
RT: 12.79 min Scan# 1820
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

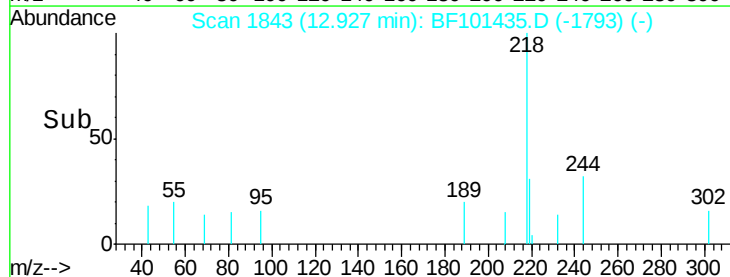
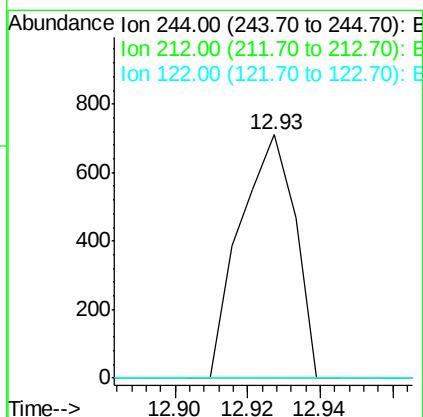
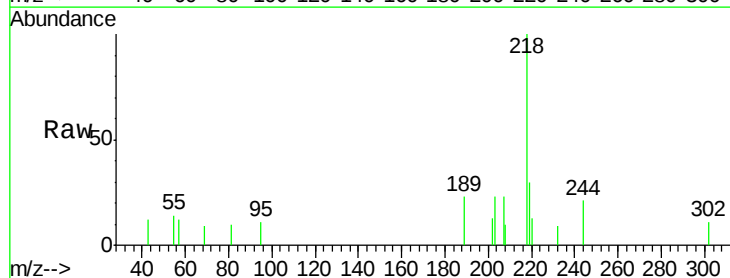
Instrument :
BNA_F
ClientSampleId :

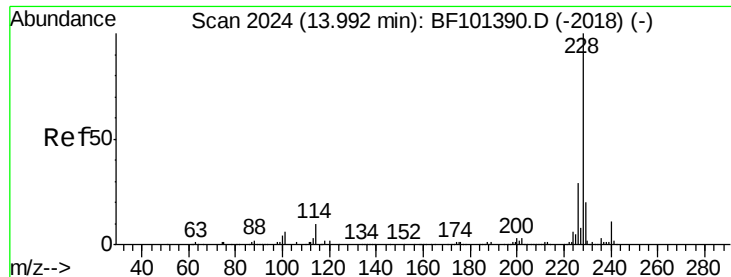
Tot Ion:202 Resp: 294278
Ion Ratio Lower Upper
202 100
200 21.3 17.4 26.2
203 17.3 14.3 21.5



#78
Terphenyl-d14
Concen: 0.054 ng
RT: 12.93 min Scan# 1843
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion:244 Resp: 747
Ion Ratio Lower Upper
244 100
212 0.0 5.4 8.0#
122 0.0 11.0 16.4#

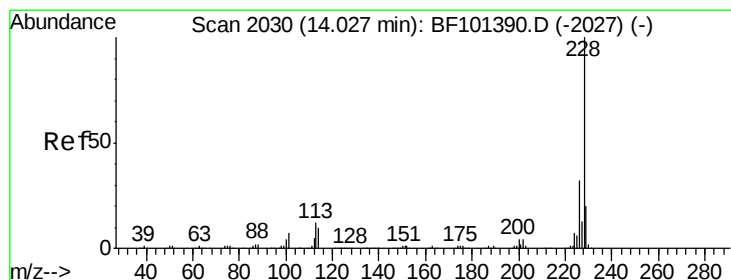
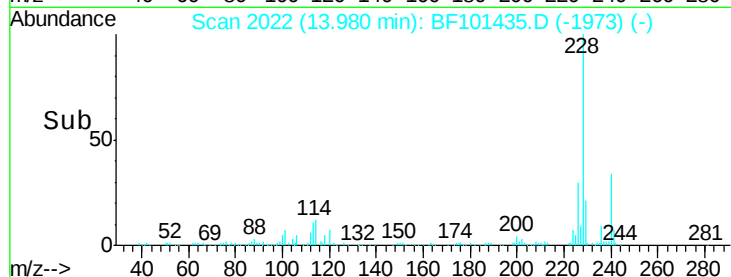
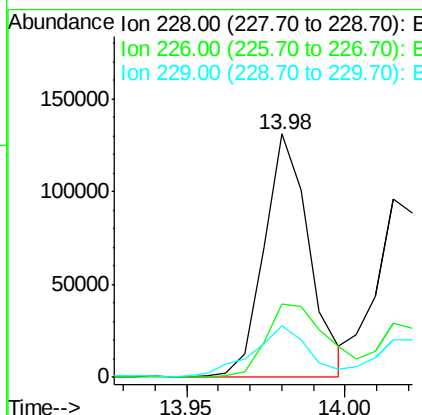
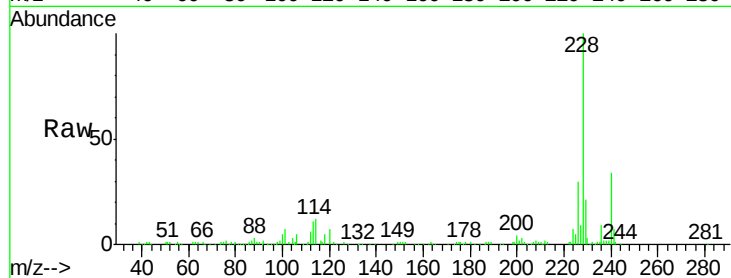




#80
Benzo(a)anthracene
Concen: 5.855 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

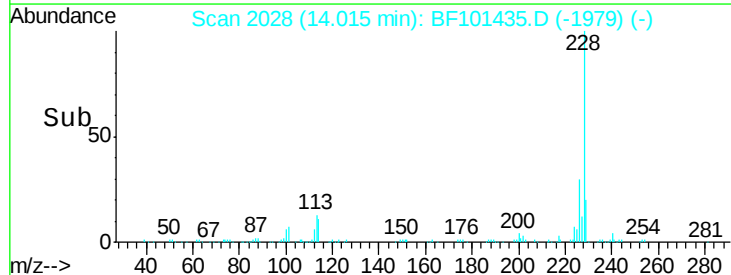
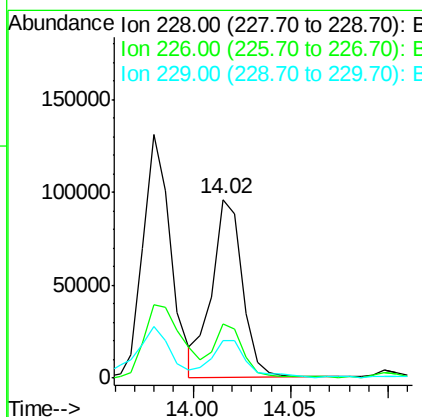
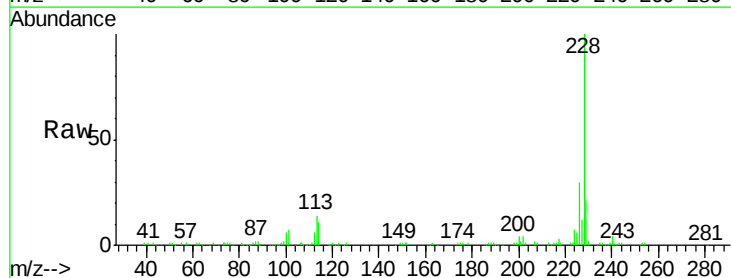
Instrument :
BNA_F
ClientSampleId :

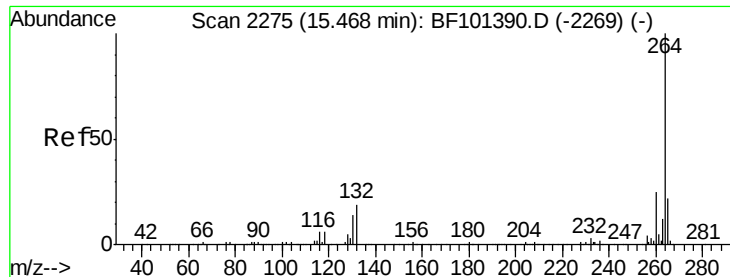
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.6	33.8
229	21.3	15.8	23.6



#82
Chrysene
Concen: 5.026 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.0	37.6
229	21.0	16.2	24.4

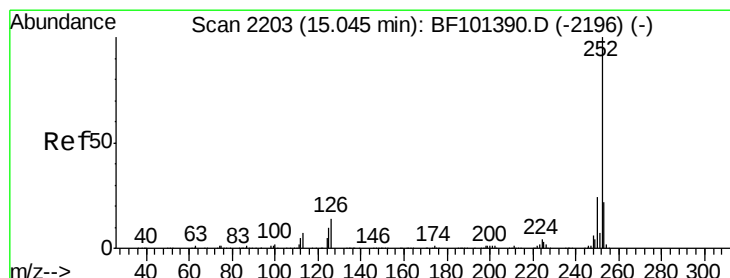
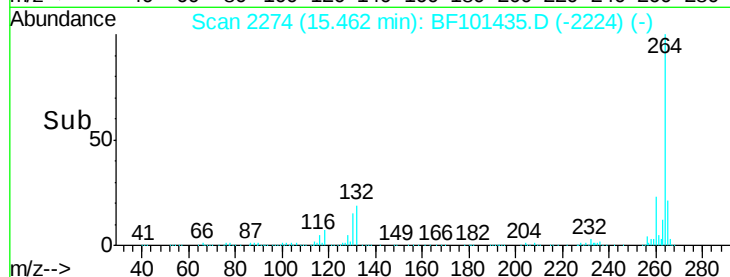
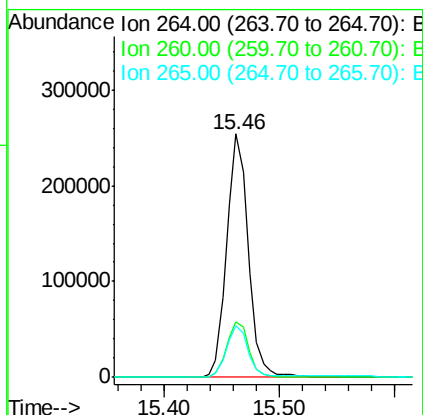
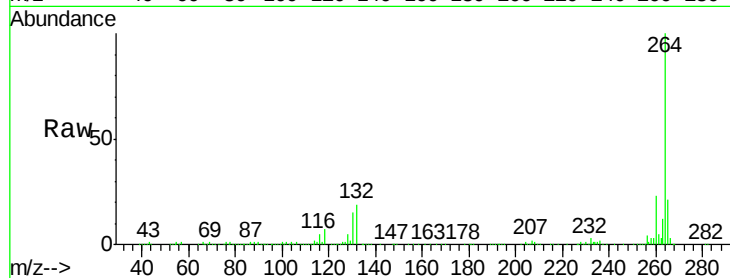




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

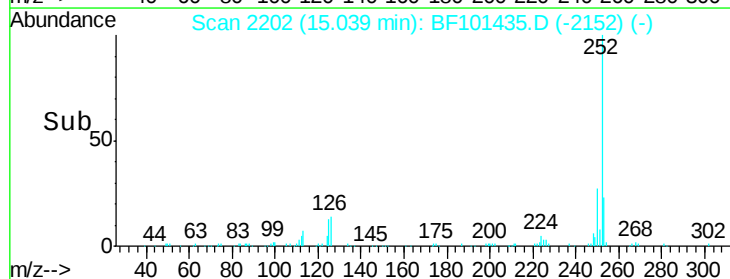
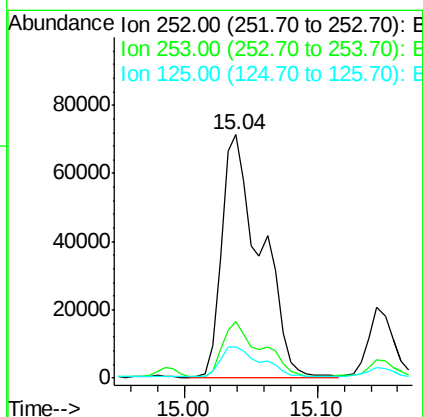
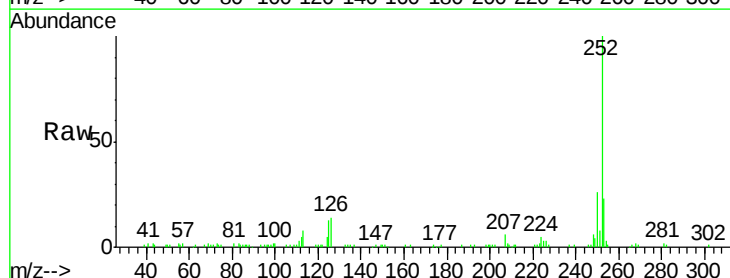
Instrument :
BNA_F
ClientSampleId :

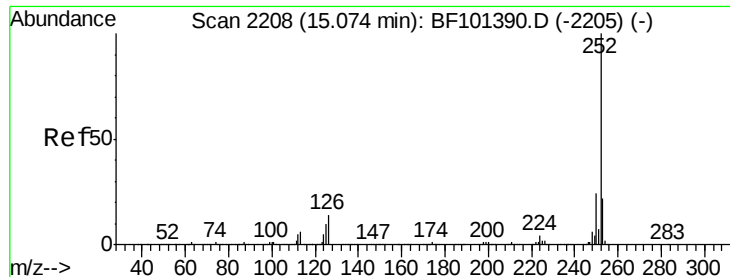
Tot Ion:264 Resp: 329971
Ion Ratio Lower Upper
264 100
260 22.9 19.2 28.8
265 21.2 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 7.266 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion:252 Resp: 146146
Ion Ratio Lower Upper
252 100
253 23.4 17.0 25.6
125 12.8 9.0 13.6

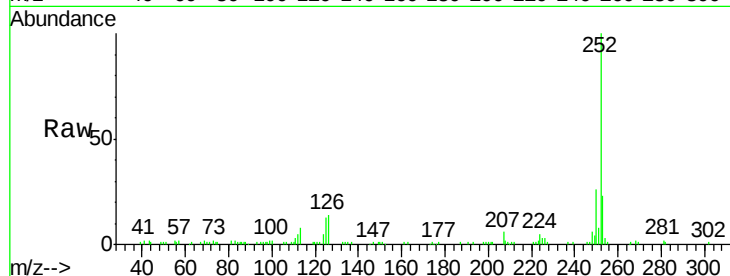




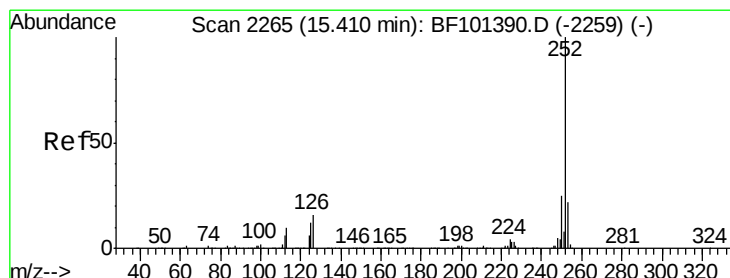
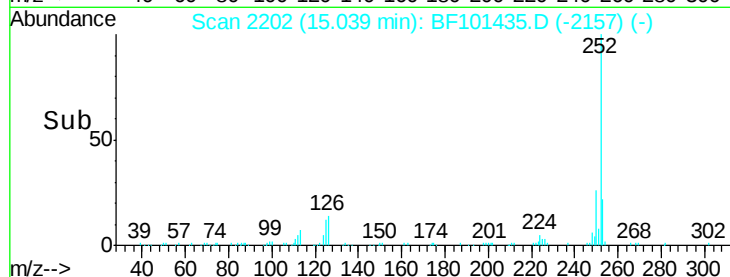
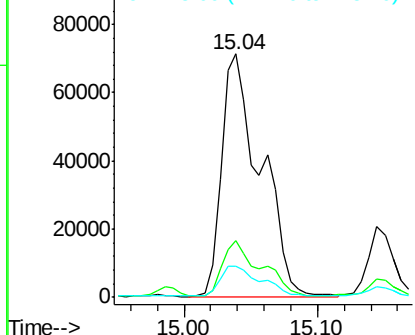
#88
Benzo(k)fluoranthene
Concen: 7.474 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.04 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 146146
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 12.8 10.2 15.2

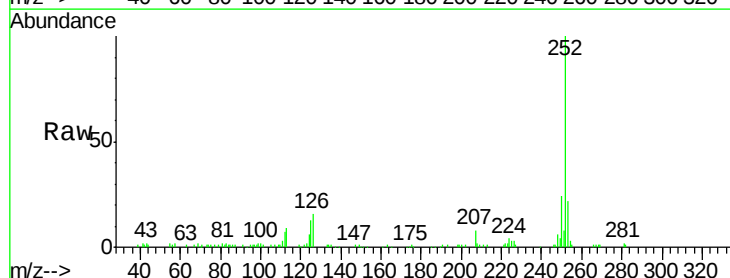


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 4.513 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF101435.D
Acq: 15 Dec 2017 10:38

Tgt Ion:252 Resp: 83677
Ion Ratio Lower Upper
252 100
253 22.4 17.1 25.7
125 12.8 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

