

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121217\
 Data File : BF101346.D
 Acq On : 12 Dec 2017 22:41
 Operator : SJ/JU
 Sample : I6822-14 50X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 13 00:43:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	40169	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	146913	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	60687	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	112388	20.00	ng	0.00
75) Chrysene-d12	14.00	240	103288	20.00	ng	0.00
86) Perylene-d12	15.49	264	86625	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	4053	1.67	ng	0.02
7) Phenol-d6	6.47	99	5304	1.80	ng	0.01
23) Nitrobenzene-d5	7.39	82	2872	1.17	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	1060	1.45	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	5700	1.29	ng	0.00
78) Terphenyl-d14	12.93	244	5500	1.16	ng	0.00

Target Compounds

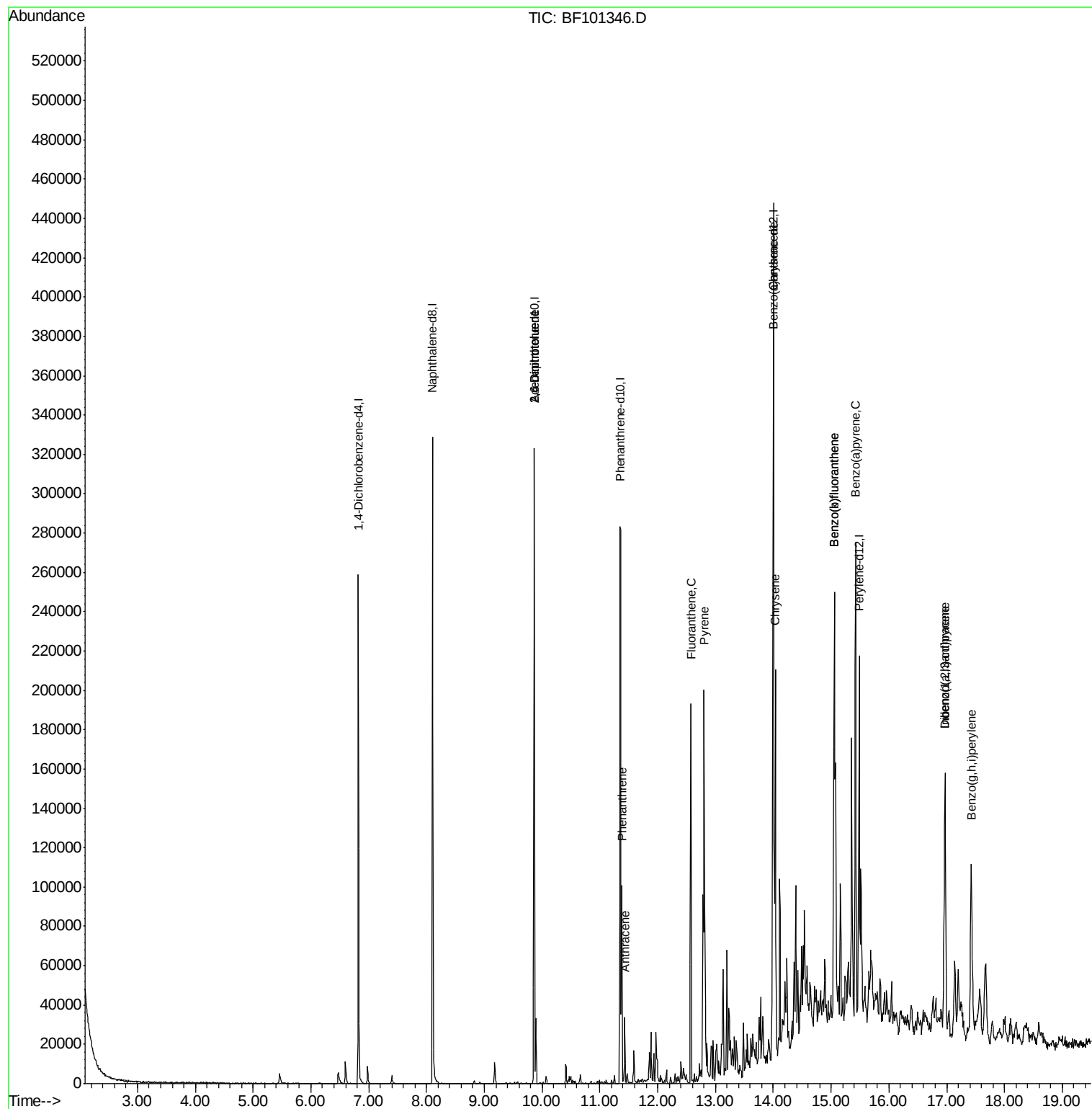
						Qvalue
50) 2,6-Dinitrotoluene	9.86	165	7823	7.589	ng	# 24
56) 2,4-Dinitrotoluene	9.86	165	7823	5.663	ng	# 21
70) Phenanthrene	11.38	178	41861	6.764	ng	98
71) Anthracene	11.43	178	15938	2.544	ng	97
74) Fluoranthene	12.57	202	84315	12.290	ng	92
77) Pyrene	12.80	202	86979	12.204	ng	98
80) Benzo(a)anthracene	13.99	228	91938	14.098	ng	97
82) Chrysene	14.03	228	75267	12.427	ng	95
85) Indeno(1,2,3-cd)pyrene	16.97	276	78063	14.498	ng	# 89
87) Benzo(b)fluoranthene	15.06	252	179201	34.537	ng	98
88) Benzo(k)fluoranthene	15.06	252	179201	35.055	ng	98
89) Benzo(a)pyrene	15.42	252	118129	25.043	ng	97
90) Dibenzo(a,h)anthracene	16.97	278	23244	5.589	ng	# 88
91) Benzo(g,h,i)perylene	17.43	276	71630	18.277	ng	# 92

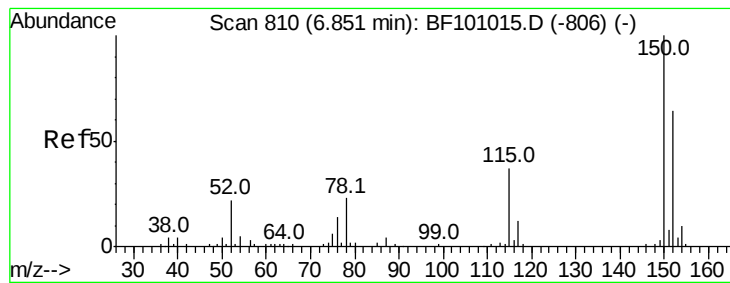
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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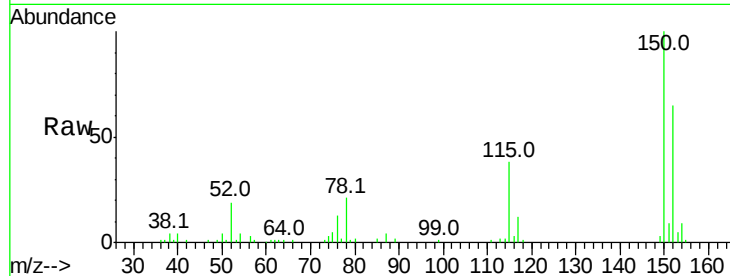


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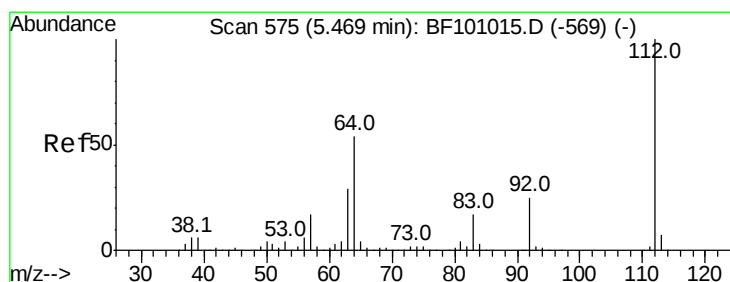
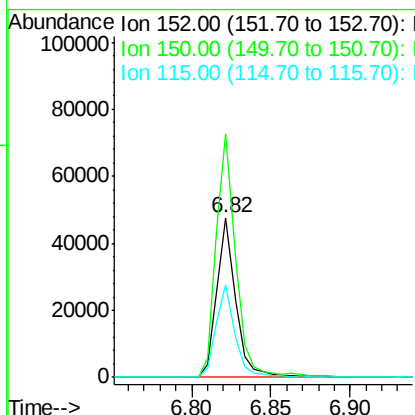
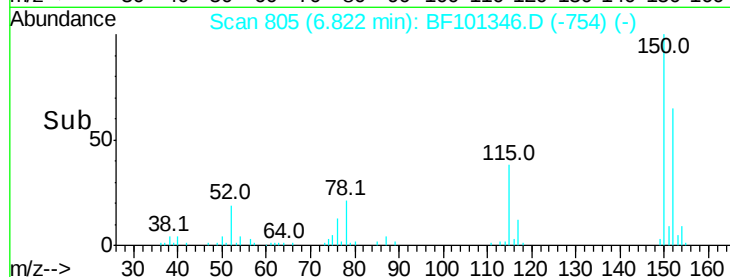
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.00 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 40169
Ion Ratio Lower Upper
152 100
150 152.8 124.6 186.8
115 58.0 50.1 75.1



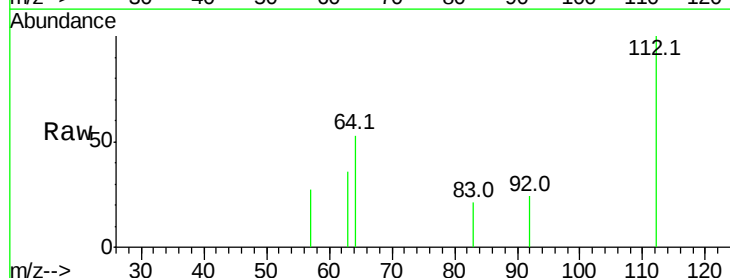
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



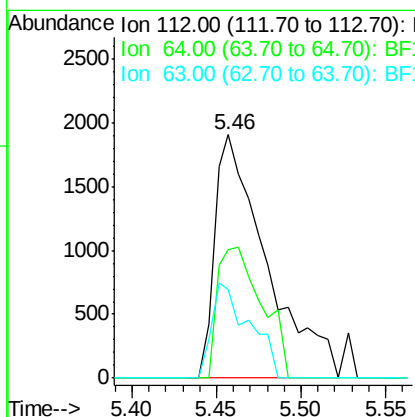
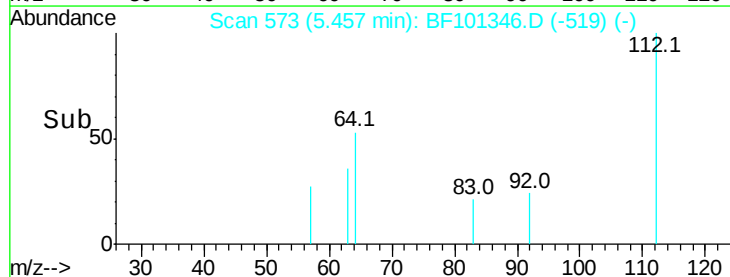
#5

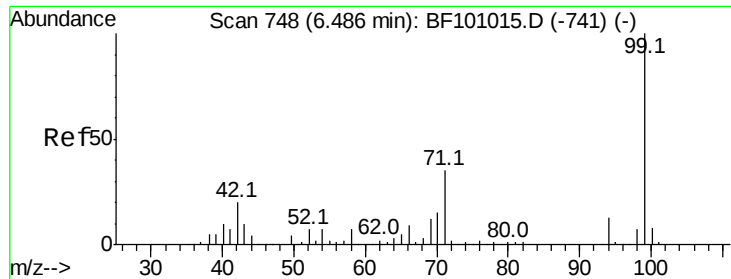
2-Fluorophenol
Concen: 1.667 ng
RT: 5.46 min Scan# 573
Delta R.T. 0.02 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Tgt Ion:112 Resp: 4053
Ion Ratio Lower Upper
112 100
64 52.6 47.9 71.9
63 36.2 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: 1.797 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.01 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

ClientSampleId :

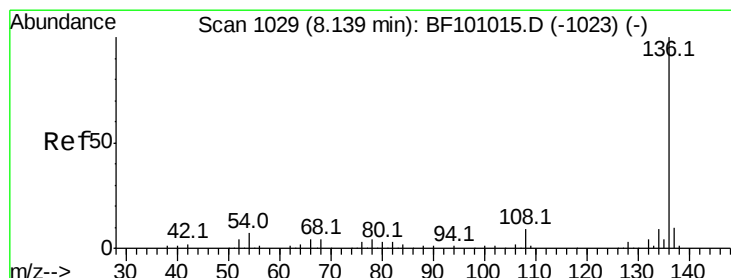
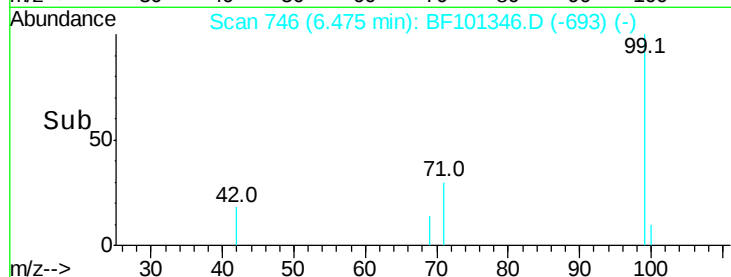
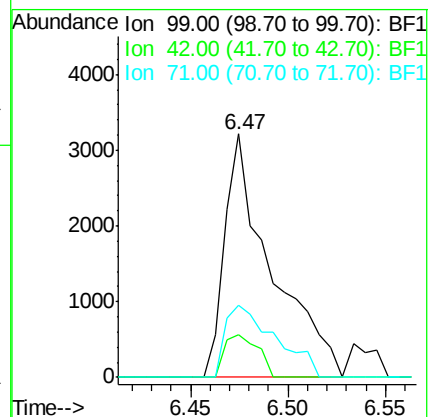
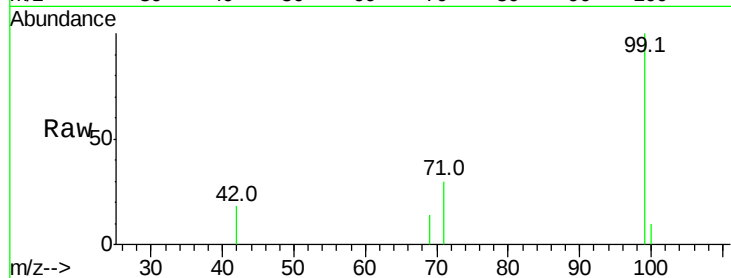
Tot Ion: 99 Resp: 5304

Ion Ratio Lower Upper

99 100

42 17.7 14.5 21.7

71 29.5 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Tgt Ion: 136 Resp: 146913

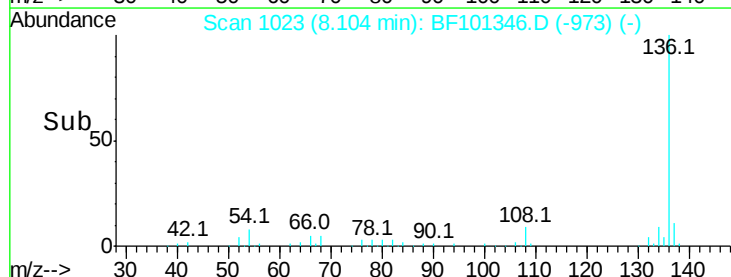
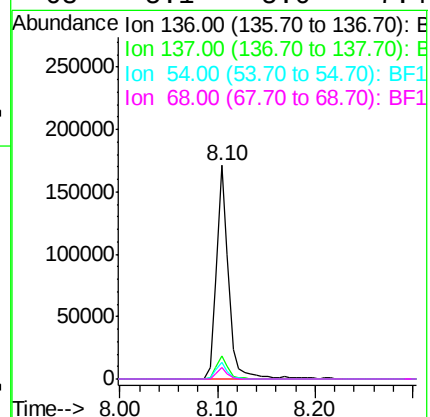
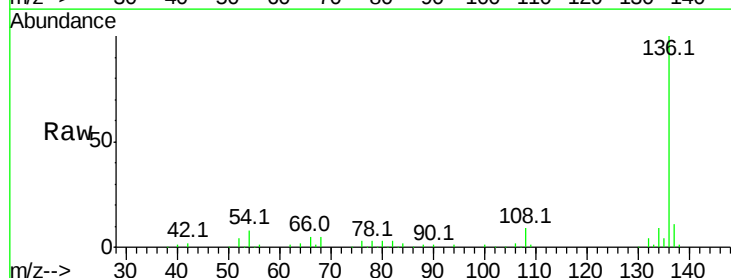
Ion Ratio Lower Upper

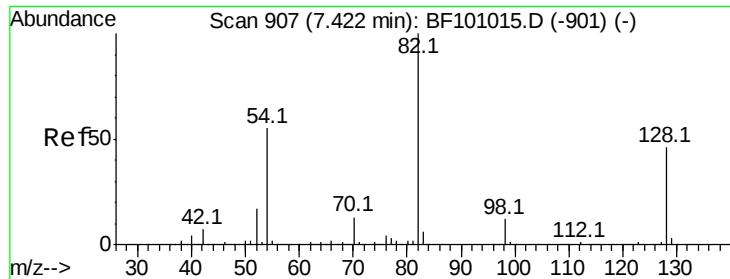
136 100

137 11.0 8.9 13.3

54 7.6 6.6 9.8

68 5.1 5.0 7.4

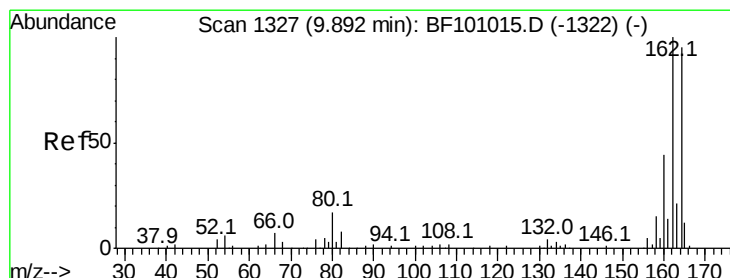
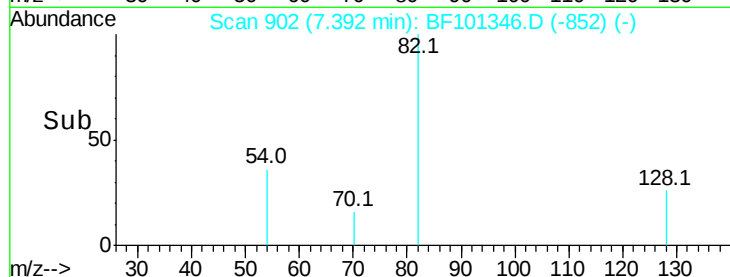
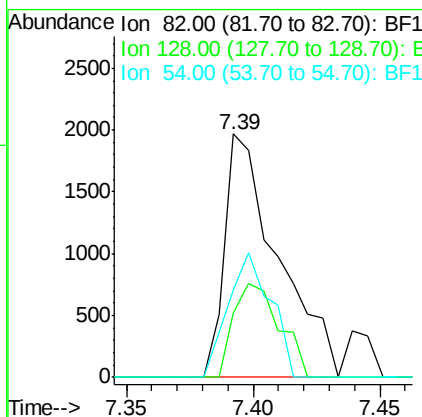
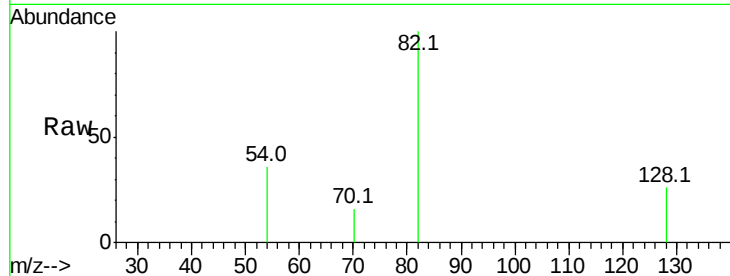




#23
Nitrobenzene-d5
Concen: 1.166 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

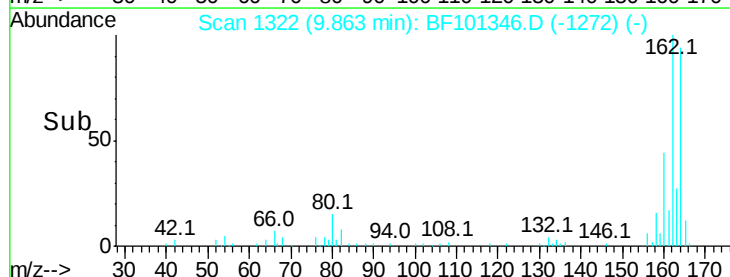
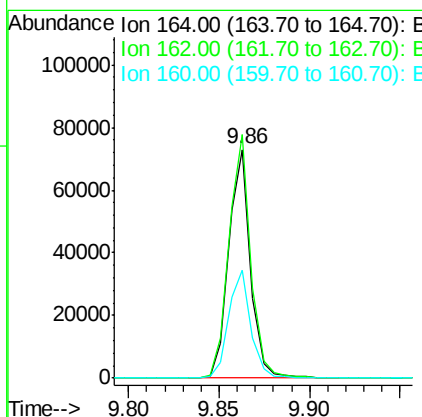
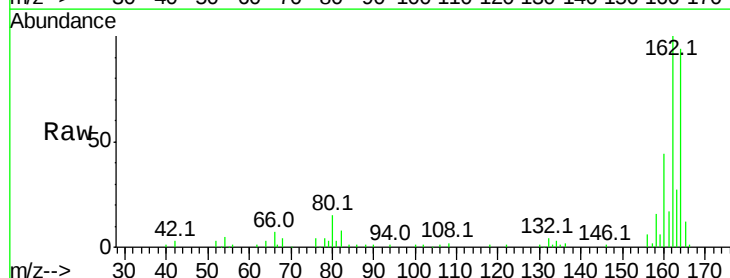
Instrument :
BNA_F
ClientSampleId :

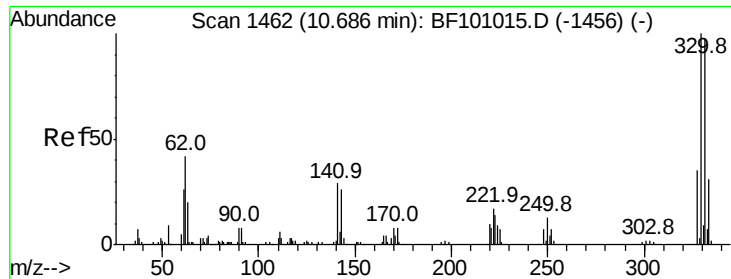
Tot Ion: 82 Resp: 2872
Ion Ratio Lower Upper
82 100
128 26.3 36.1 54.1#
54 35.9 41.4 62.2#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Tgt Ion:164 Resp: 60687
Ion Ratio Lower Upper
164 100
162 106.4 86.1 129.1
160 47.3 38.3 57.5

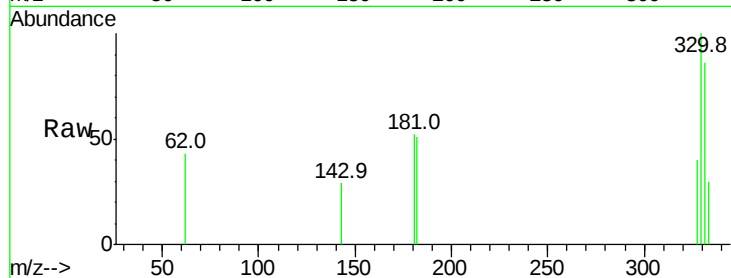




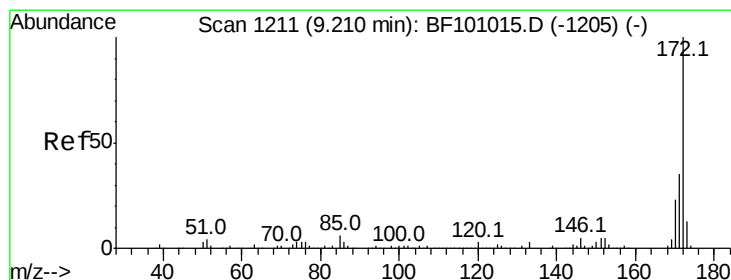
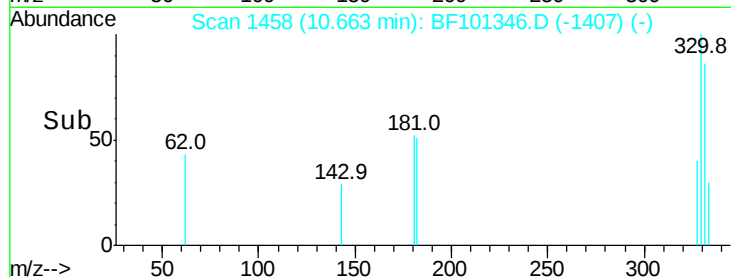
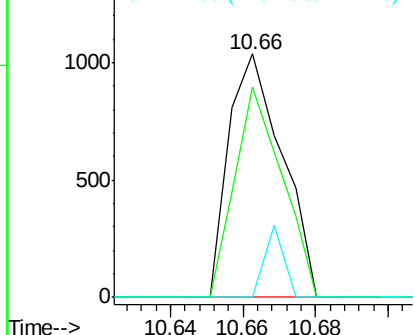
#41
 2,4,6-Tribromophenol
 Concen: 1.454 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.00 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 1060
 Ion Ratio Lower Upper
 330 100
 332 76.9 77.0 115.6#
 141 10.2 29.9 44.9#

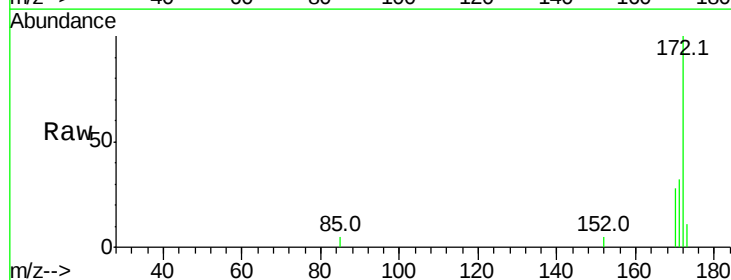


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

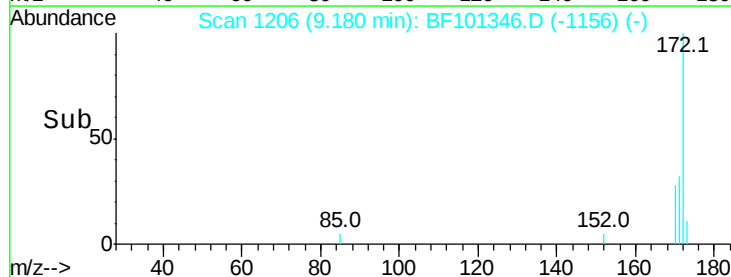
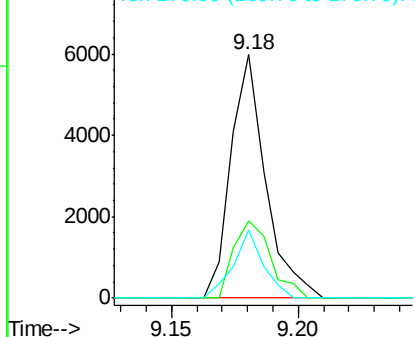


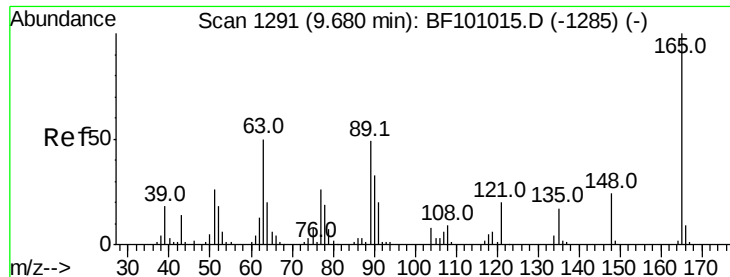
#44
 2-Fluorobiphenyl
 Concen: 1.285 ng
 RT: 9.18 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Tgt Ion:172 Resp: 5700
 Ion Ratio Lower Upper
 172 100
 171 31.8 29.7 44.5
 170 28.0 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

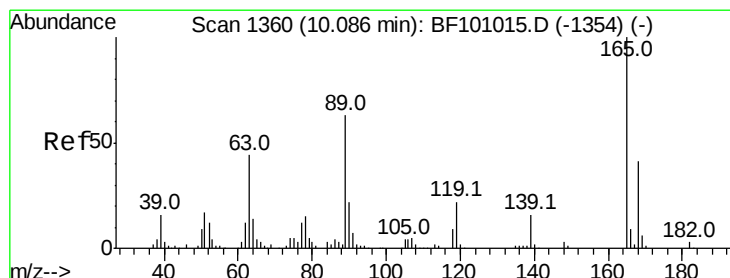
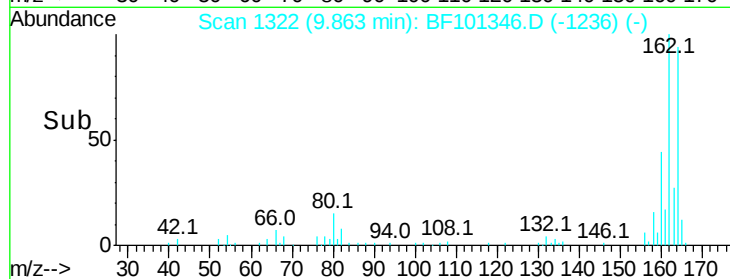
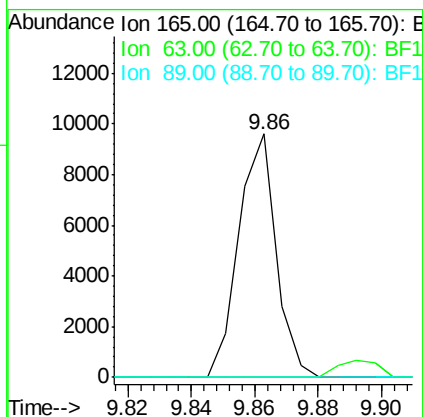
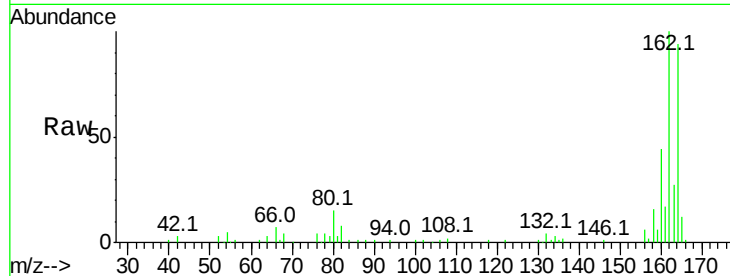




#50
 2,6-Dinitrotoluene
 Concen: 7.589 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. 0.21 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

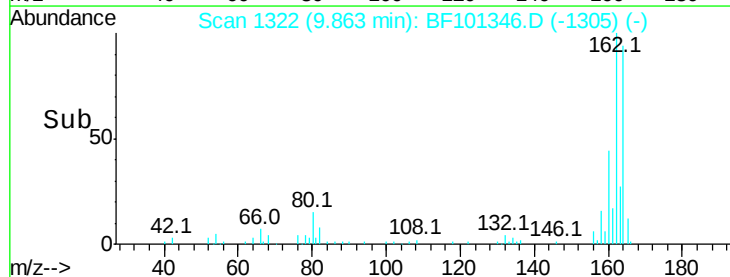
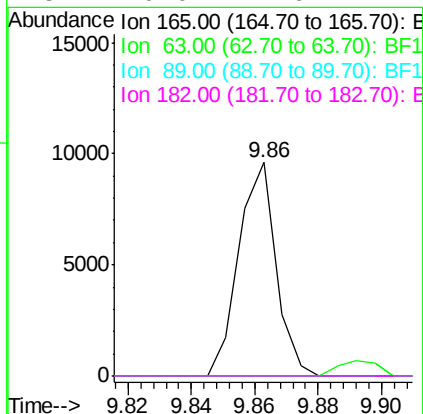
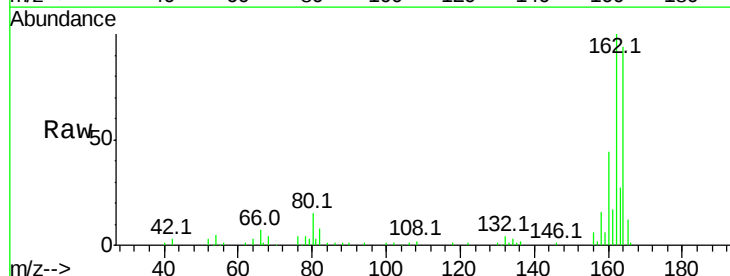
Instrument :
 BNA_F
 ClientSampleId :

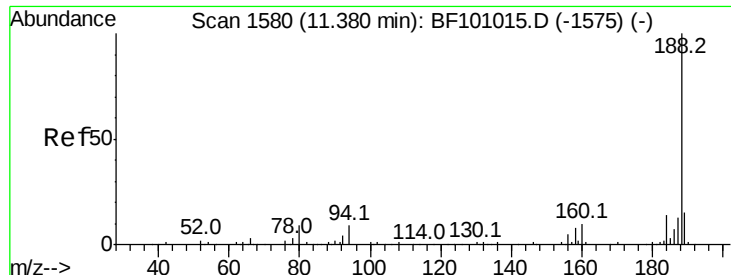
Tot Ion:165 Resp: 7823
 Ion Ratio Lower Upper
 165 100
 63 0.0 44.7 67.1#
 89 0.0 44.0 66.0#



#56
 2,4-Dinitrotoluene
 Concen: 5.663 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. -0.20 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Tgt Ion:165 Resp: 7823
 Ion Ratio Lower Upper
 165 100
 63 0.0 36.4 54.6#
 89 0.0 57.8 86.6#
 182 0.0 1.6 2.4#

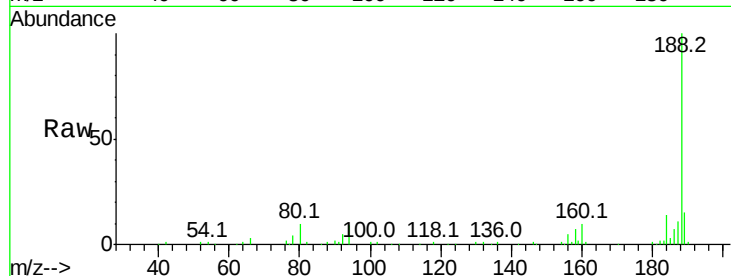




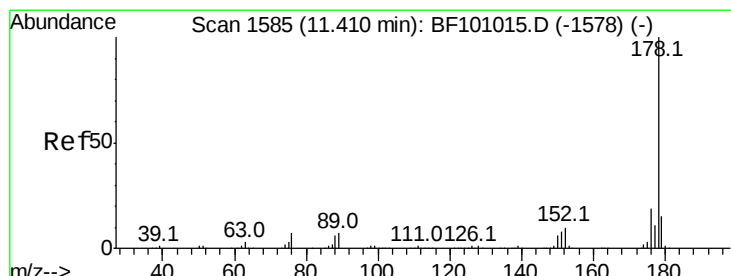
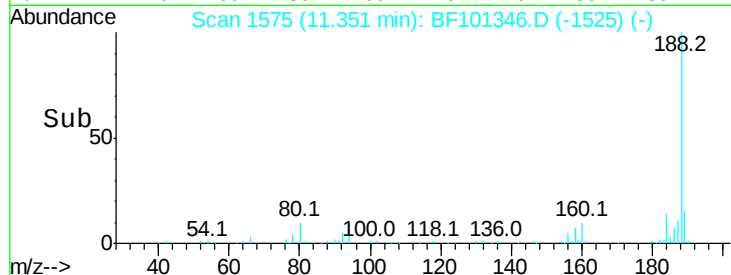
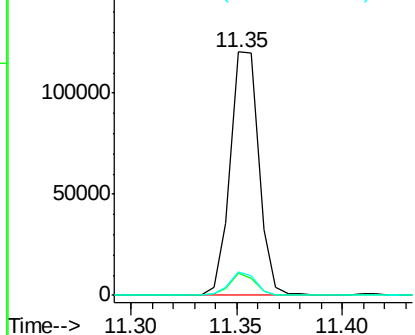
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. -0.01 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 112388
 Ion Ratio Lower Upper
 188 100
 94 9.3 8.5 12.7
 80 9.7 9.2 13.8

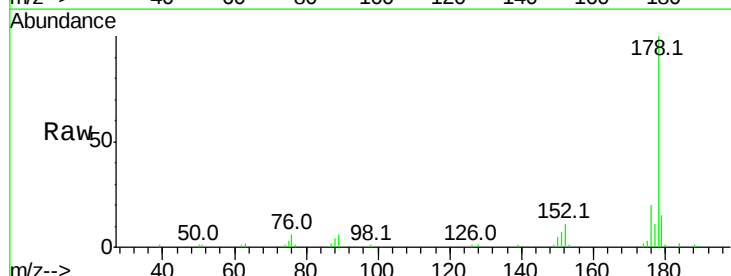


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1

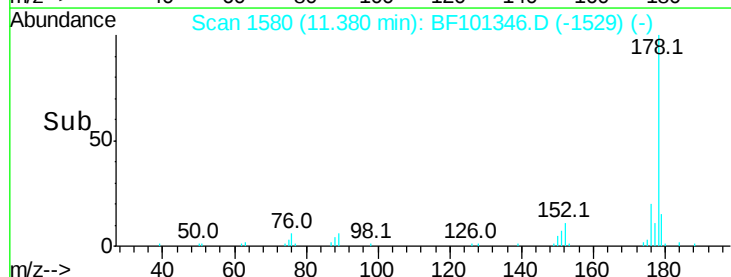
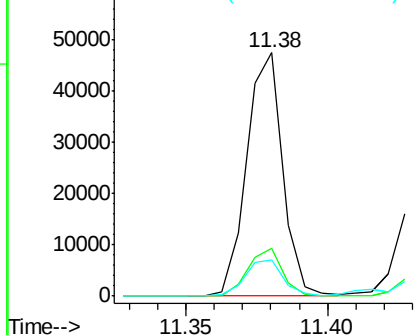


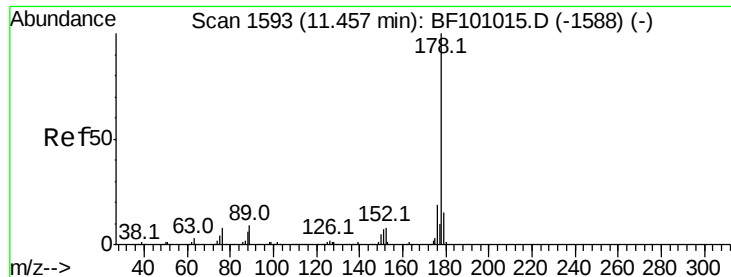
#70
 Phenanthrene
 Concen: 6.764 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Tgt Ion:178 Resp: 41861
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.8 23.8
 179 14.7 13.0 19.6



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

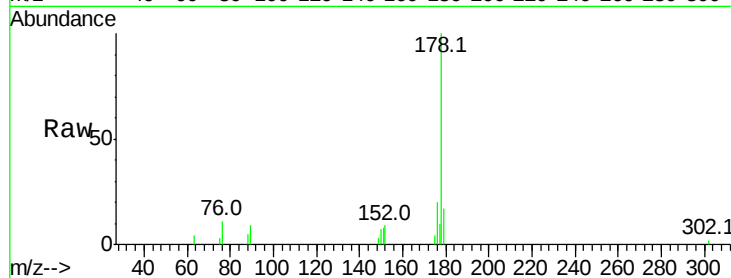




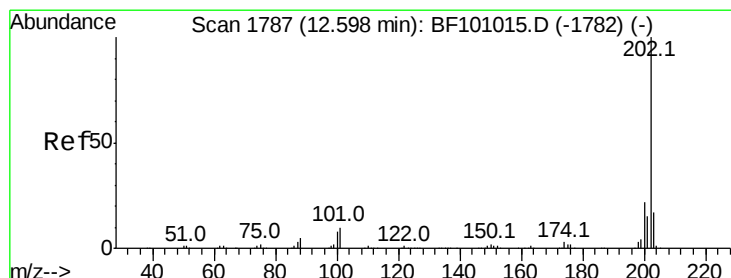
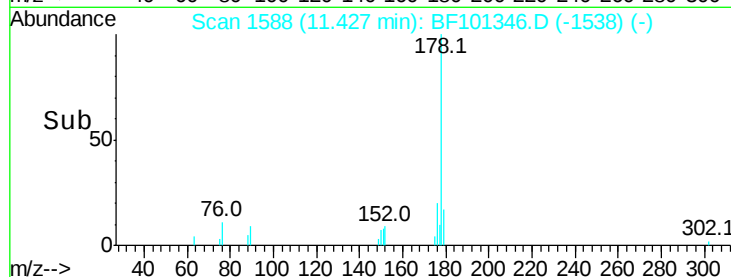
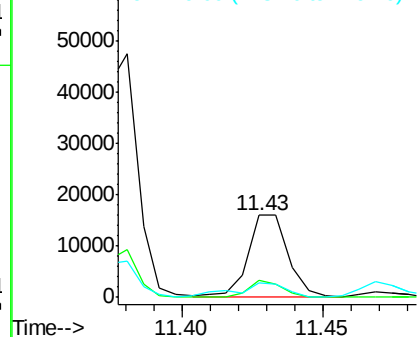
#71
 Anthracene
 Concen: 2.544 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. -0.01 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 15938
 Ion Ratio Lower Upper
 178 100
 176 20.4 15.4 23.2
 179 17.0 12.6 19.0

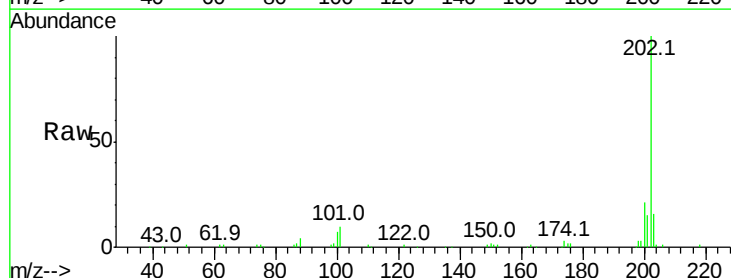


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

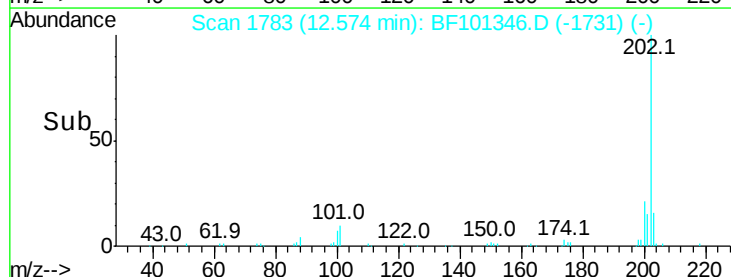
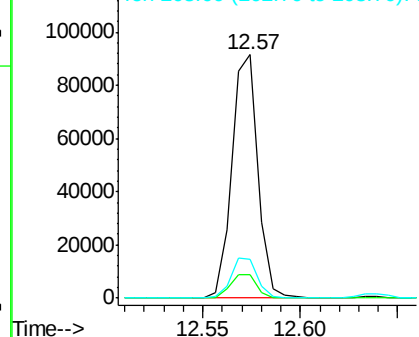


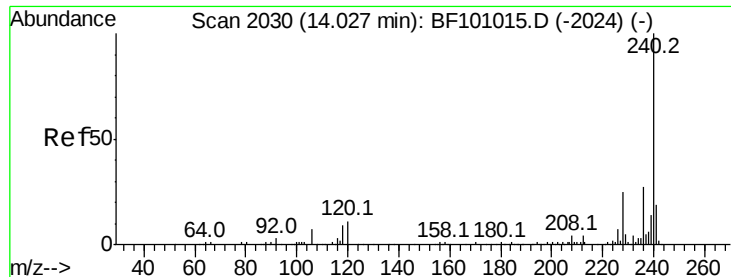
#74
 Fluoranthene
 Concen: 12.290 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.01 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Tgt Ion:202 Resp: 84315
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 34.1
 203 15.7 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: 14.00 min Scan# 2026

Delta R.T. -0.00 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

ClientSampleId :

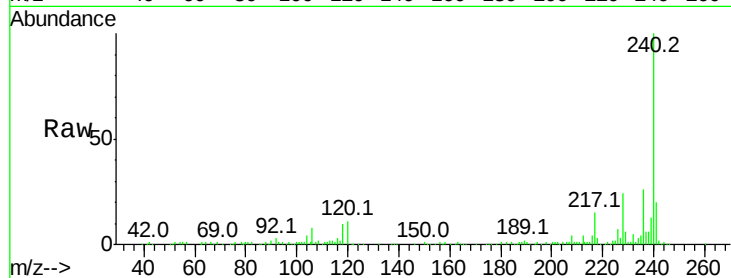
Tot Ion:240 Resp: 103288

Ion Ratio Lower Upper

240 100

120 10.6 9.5 14.3

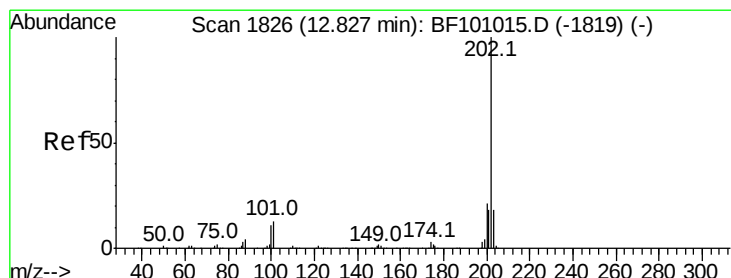
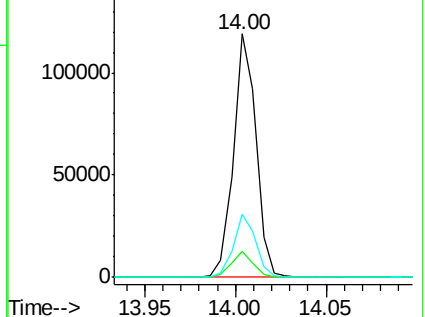
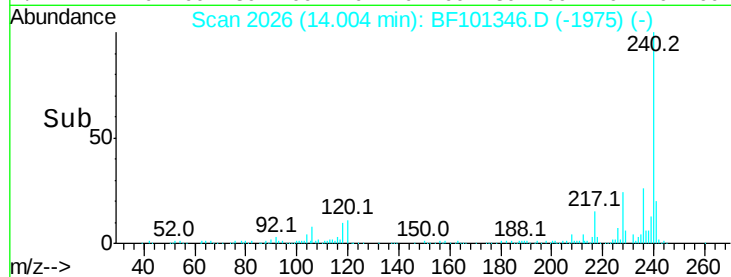
236 26.0 20.7 31.1



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

Pyrene

Concen: 12.204 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.00 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

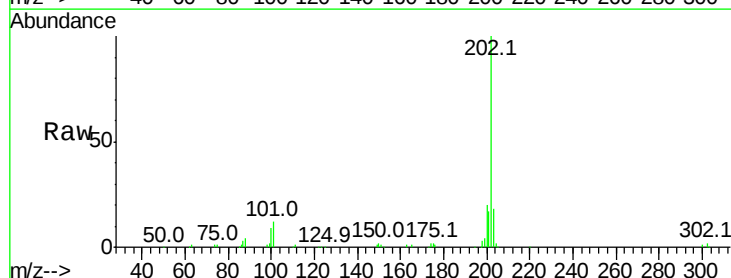
Tgt Ion:202 Resp: 86979

Ion Ratio Lower Upper

202 100

200 20.2 17.4 26.2

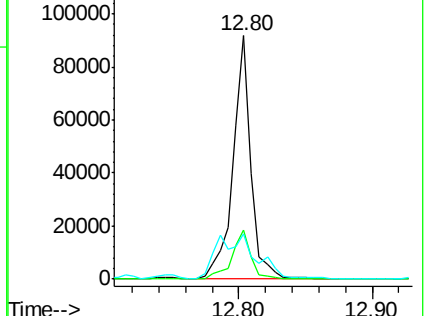
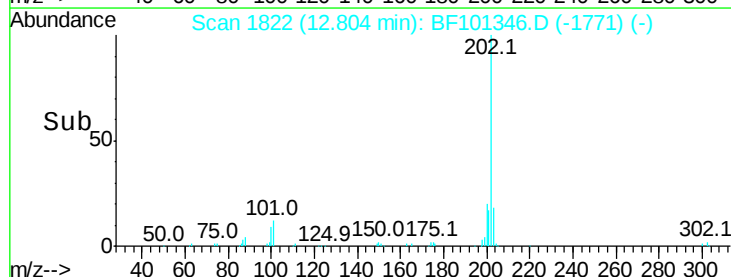
203 18.5 14.3 21.5

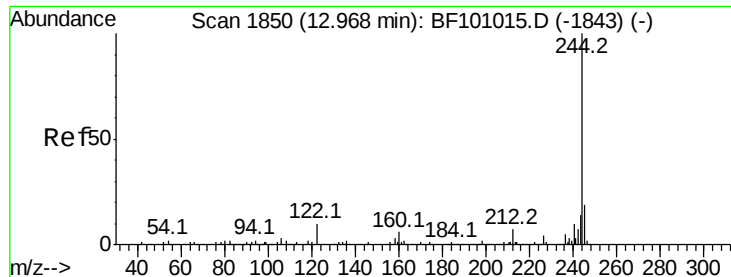


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 1.165 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

ClientSampleId :

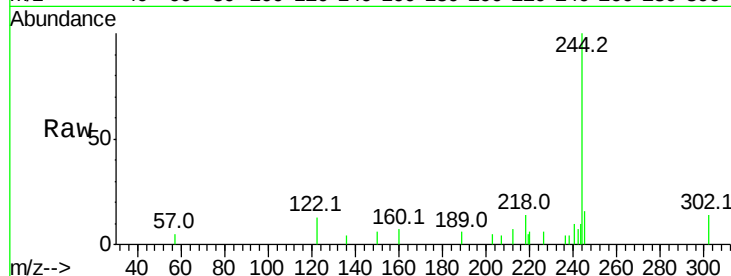
Tot Ion:244 Resp: 5500

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

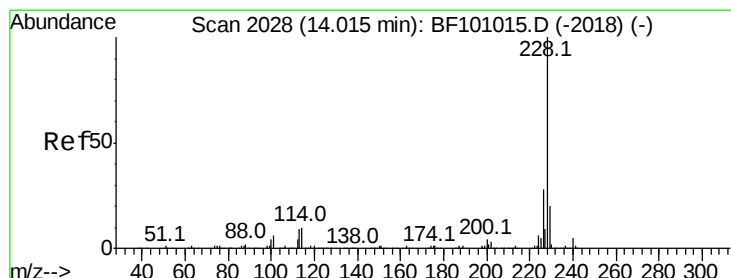
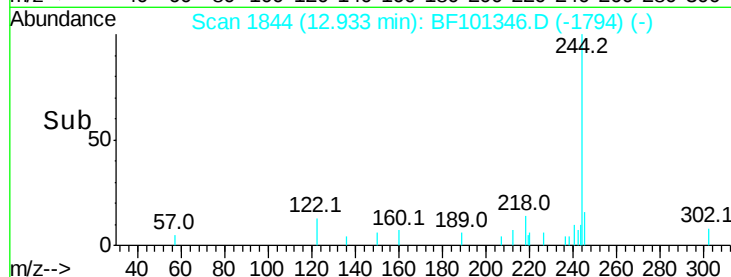
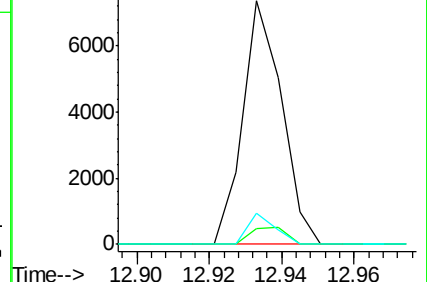
122 12.6 11.0 16.4



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: 14.098 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.00 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

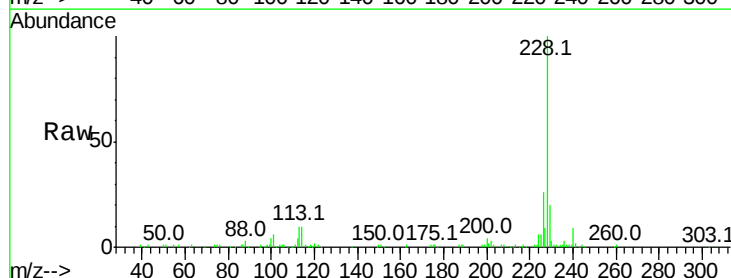
Tgt Ion:228 Resp: 91938

Ion Ratio Lower Upper

228 100

226 25.9 22.6 33.8

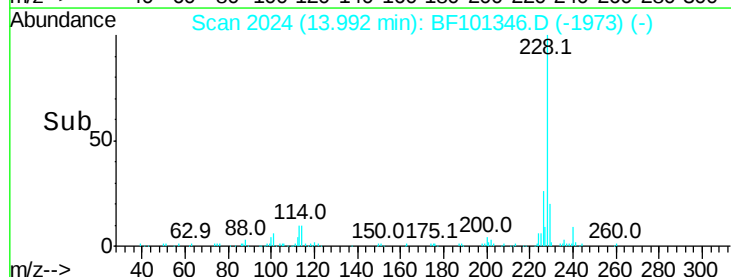
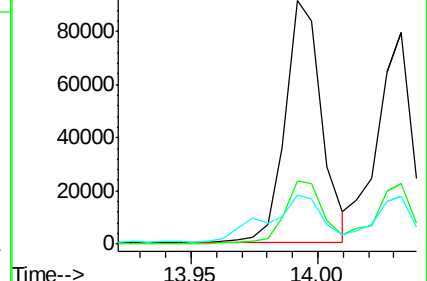
229 20.4 15.8 23.6

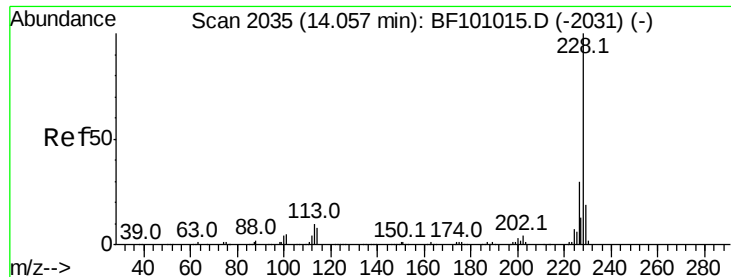


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 12.427 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

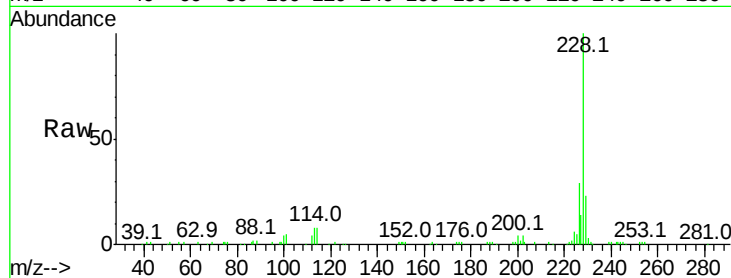
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 75267

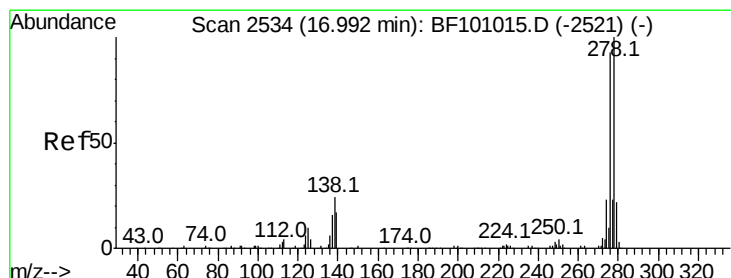
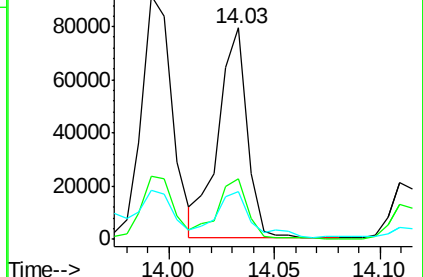
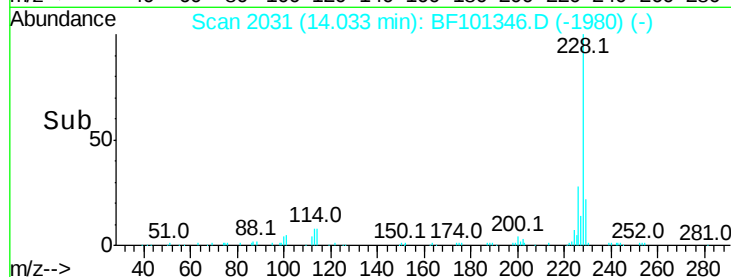
Ion	Ratio	Lower	Upper
228	100		
226	28.7	25.0	37.6
229	22.6	16.2	24.4



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: 14.498 ng

RT: 16.97 min Scan# 2531

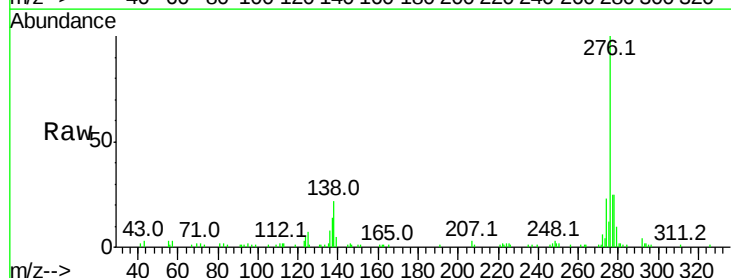
Delta R.T. 0.03 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Tgt Ion:276 Resp: 78063

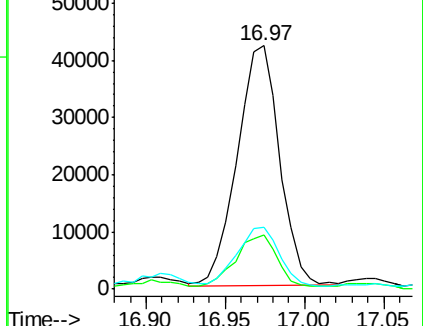
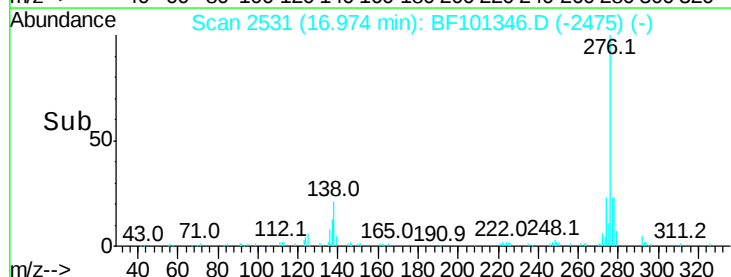
Ion	Ratio	Lower	Upper
276	100		
138	20.9	25.0	37.6#
277	24.1	20.1	30.1

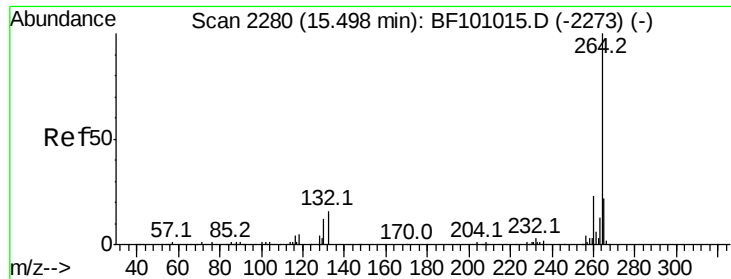


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

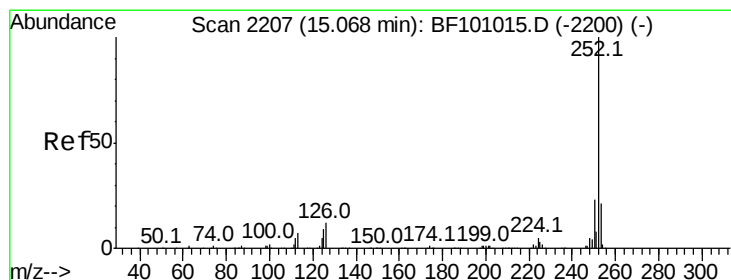
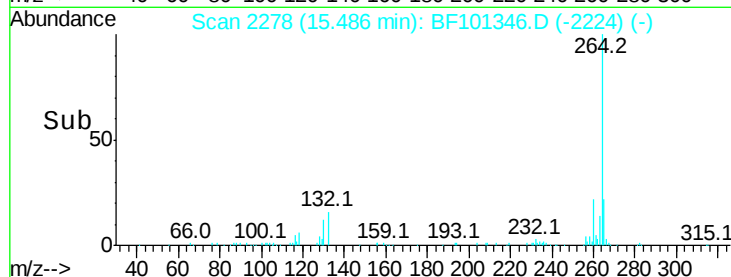
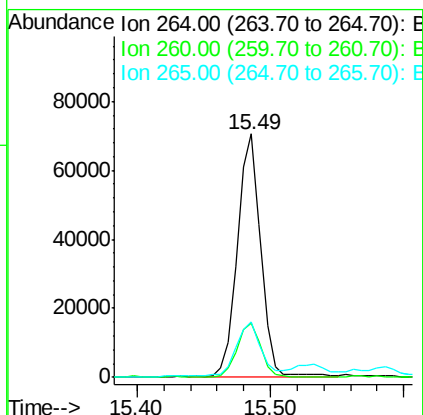
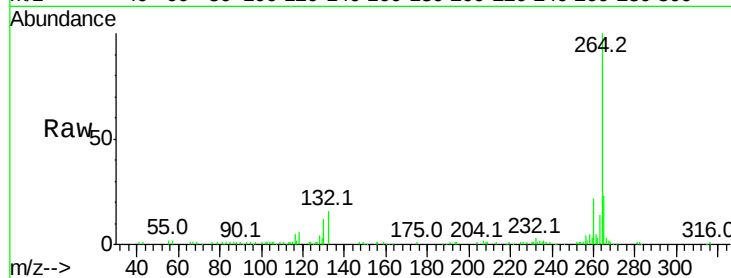




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

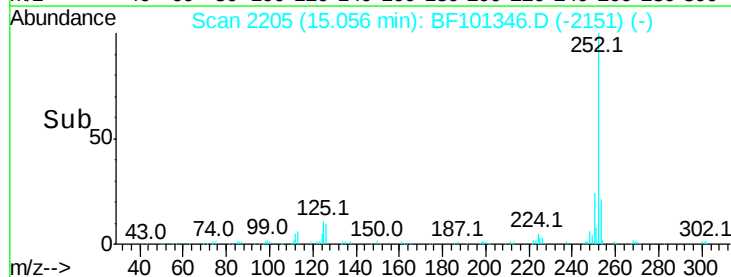
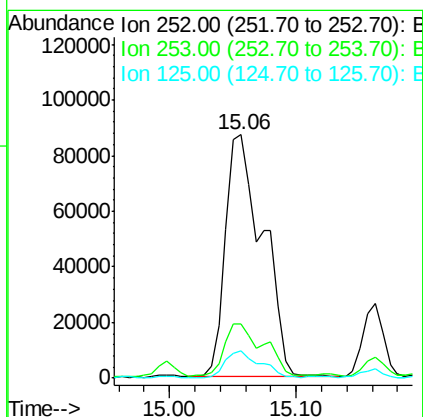
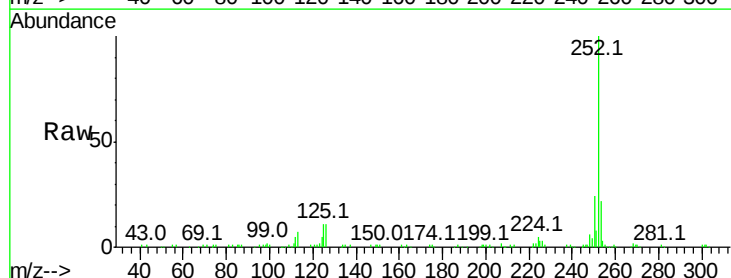
Instrument :
BNA_F
ClientSampleId :

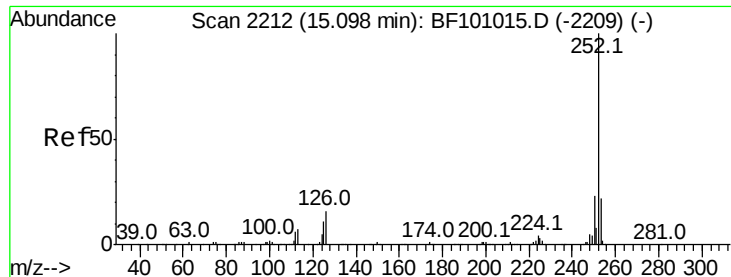
Tot Ion:264 Resp: 86625
Ion Ratio Lower Upper
264 100
260 22.4 19.2 28.8
265 22.9 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 34.537 ng
RT: 15.06 min Scan# 2205
Delta R.T. 0.02 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Tgt Ion:252 Resp: 179201
Ion Ratio Lower Upper
252 100
253 22.2 17.0 25.6
125 11.0 9.0 13.6





#88

Benzo(k)fluoranthene

Concen: 35.055 ng

RT: 15.06 min Scan# 2205

Delta R.T. -0.02 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

ClientSampleId :

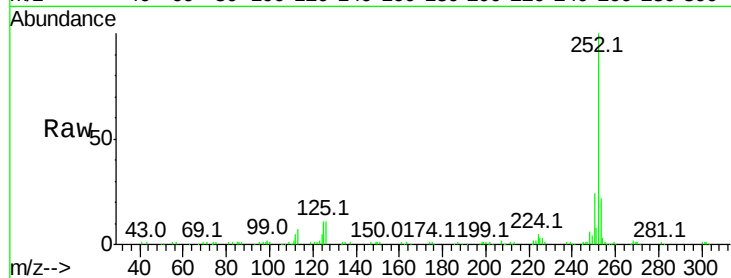
Tot Ion:252 Resp: 179201

Ion Ratio Lower Upper

252 100

253 22.2 17.9 26.9

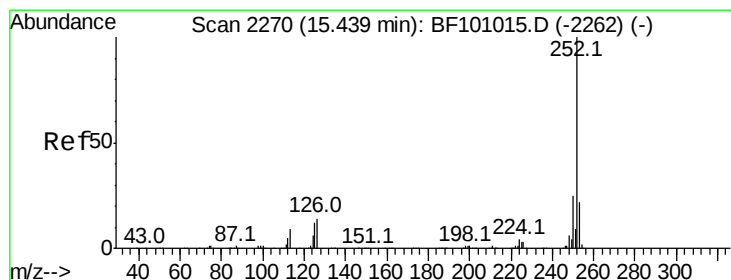
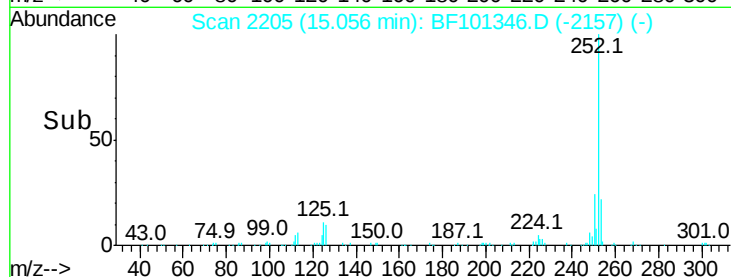
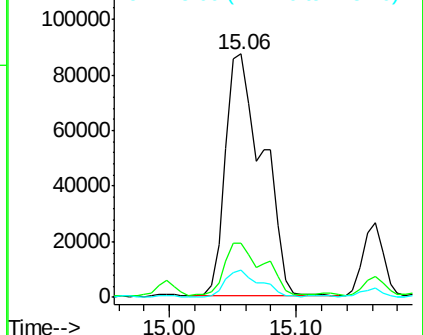
125 11.0 10.2 15.2



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: 25.043 ng

RT: 15.42 min Scan# 2267

Delta R.T. 0.01 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

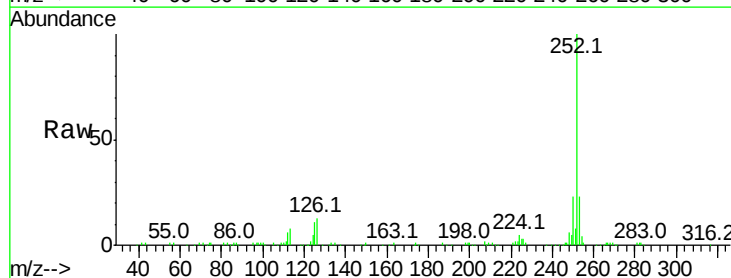
Tgt Ion:252 Resp: 118129

Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

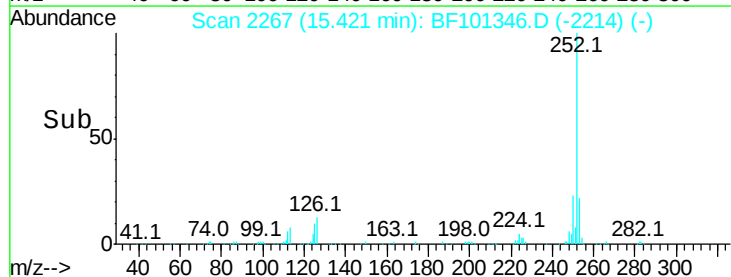
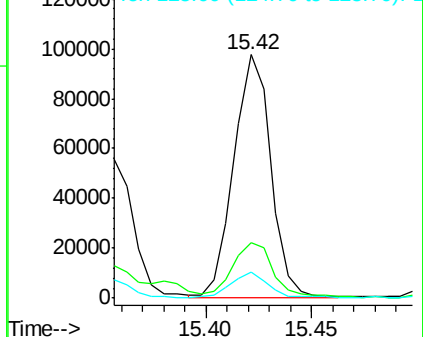
125 10.8 9.8 14.6

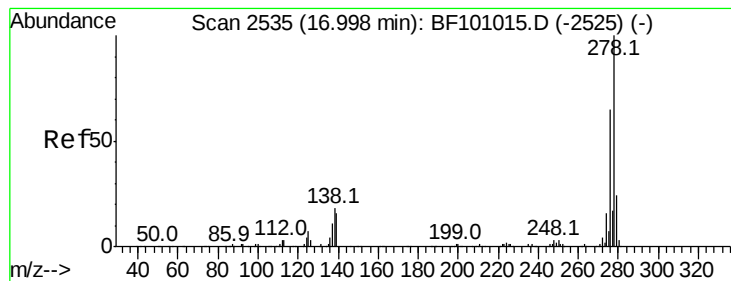


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 5.589 ng

RT: 16.97 min Scan# 2530

Delta R.T. 0.01 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

ClientSampled :

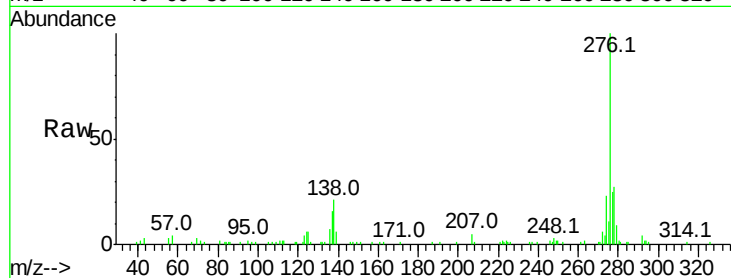
Tot Ion:278 Resp: 23244

Ion Ratio Lower Upper

278 100

139 22.1 15.9 23.9

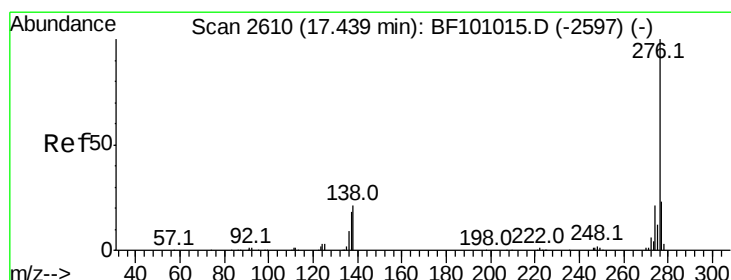
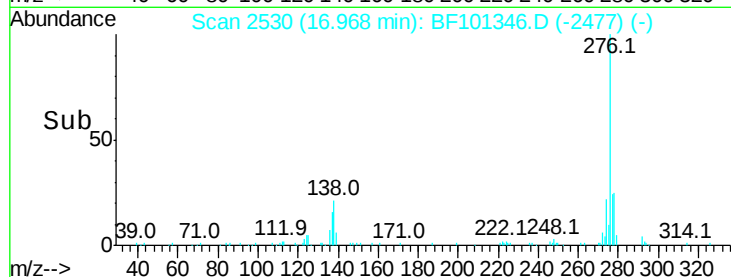
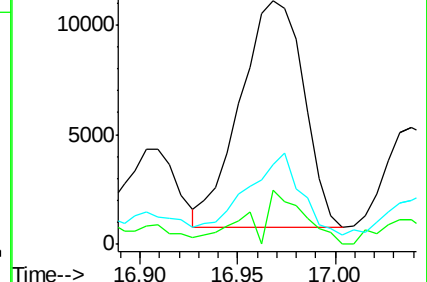
279 32.8 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 18.277 ng

RT: 17.43 min Scan# 2608

Delta R.T. 0.04 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

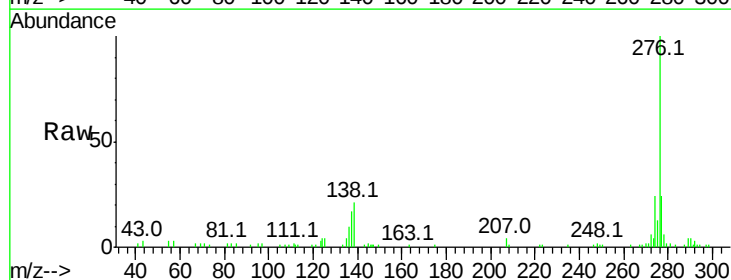
Tgt Ion:276 Resp: 71630

Ion Ratio Lower Upper

276 100

277 23.6 17.9 26.9

138 21.0 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

