

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\
 Data File : BF083840.D
 Acq On : 16 Dec 2015 3:42
 Operator : UM/IZ
 Sample : G4739-07DL 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K1206-0-2DL

Quant Time: Dec 16 07:33:09 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

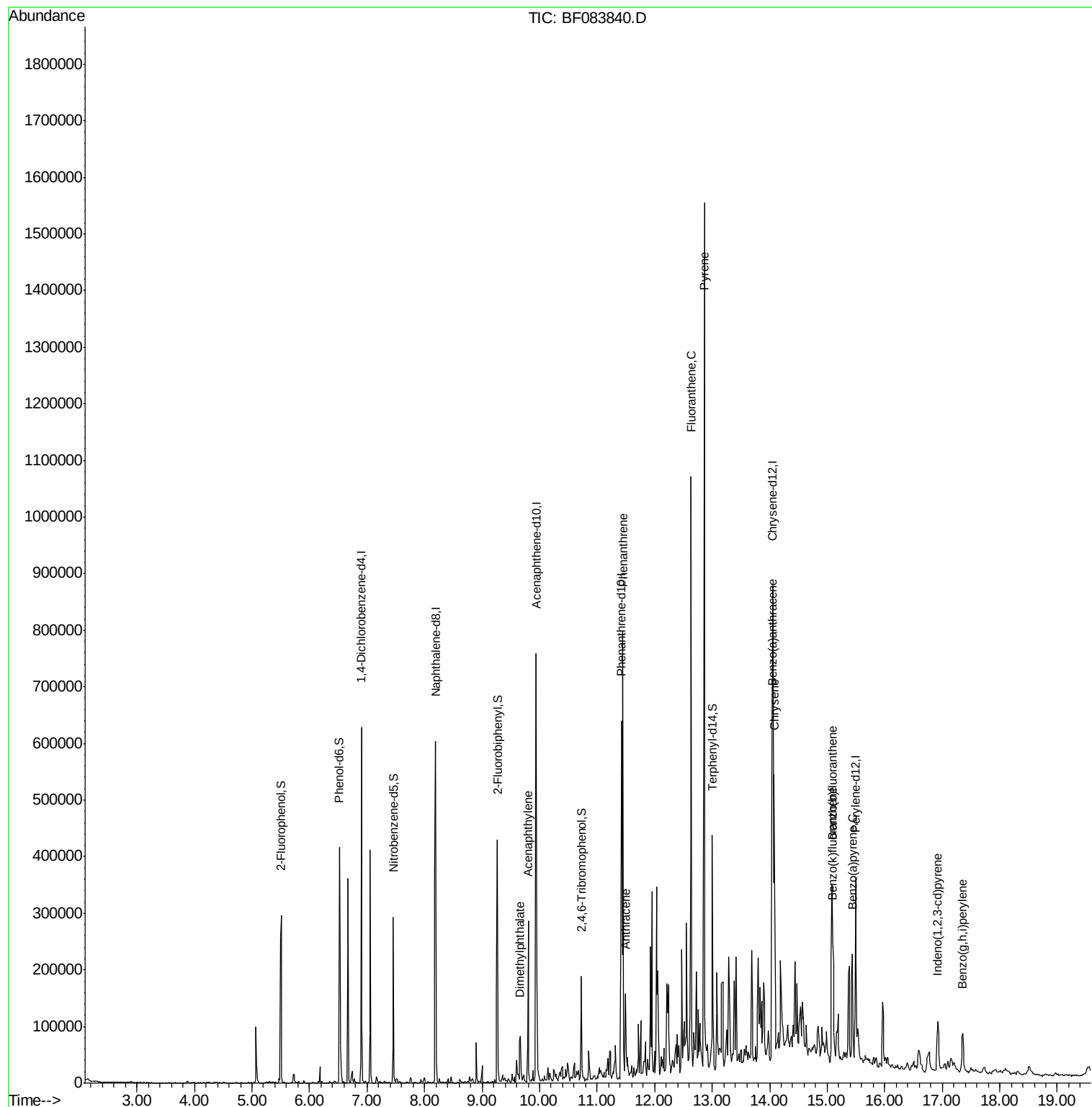
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	90152	20.00	ng	-0.02
21) Naphthalene-d8	8.19	136	348444	20.00	ng	-0.02
38) Acenaphthene-d10	9.94	164	150459	20.00	ng	-0.02
63) Phenanthrene-d10	11.42	188	249697	20.00	ng	-0.02
75) Chrysene-d12	14.05	240	197645	20.00	ng	-0.02
86) Perylene-d12	15.49	264	151736	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	122555	21.93	ng	-0.02
7) Phenol-d6	6.52	99	146384	20.69	ng	-0.02
23) Nitrobenzene-d5	7.46	82	90543	14.54	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	26901	17.55	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	160543	13.11	ng	-0.02
78) Terphenyl-d14	13.00	244	109234	11.89	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.80	152	121735	7.35	ng	99
49) Dimethylphthalate	9.65	163	24407	2.08	ng	99
70) Phenanthrene	11.45	178	287241	21.65	ng	99
71) Anthracene	11.49	178	66312	4.81	ng	98
74) Fluoranthene	12.64	202	422899	30.85	ng	98
77) Pyrene	12.87	202	647050	41.42	ng	99
80) Benzo(a)anthracene	14.04	228	228060m	20.29	ng	
82) Chrysene	14.08	228	190284	17.36	ng	99
85) Indeno(1,2,3-cd)pyrene	16.92	276	62512	5.81	ng	# 100
87) Benzo(b)fluoranthene	15.08	252	156335m	16.15	ng	
88) Benzo(k)fluoranthene	15.09	252	66399m	7.57	ng	
89) Benzo(a)pyrene	15.44	252	75849	8.78	ng	99
91) Benzo(a,h,i)perylene	17.36	276	63360	7.18	ng	98

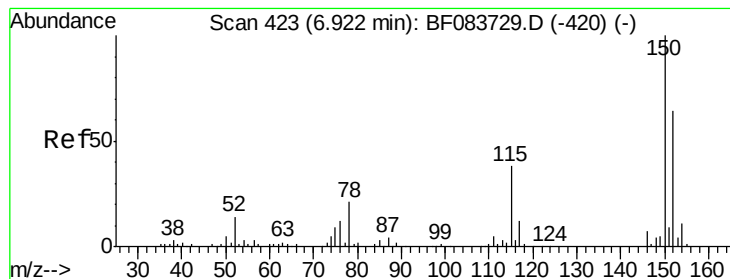
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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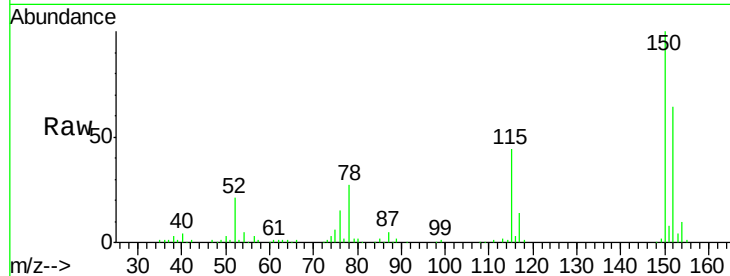


#1

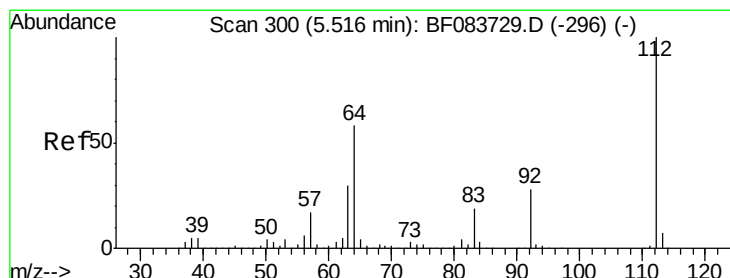
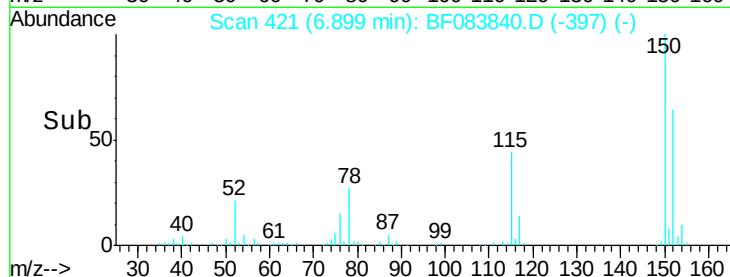
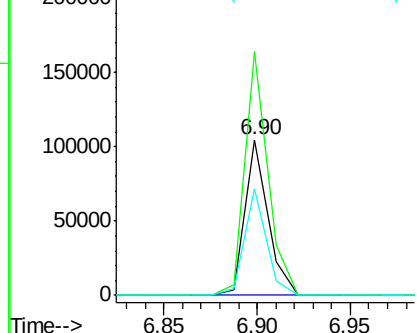
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.90 min Scan# 421
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Instrument :
 BNA_F
 ClientSampleId :
 K1206-0-2DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	126.5	189.7
115	68.6	52.3	78.5



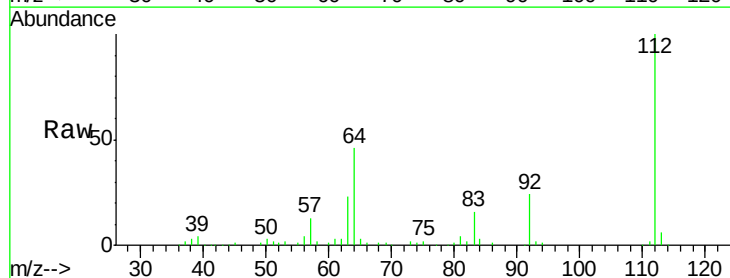
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



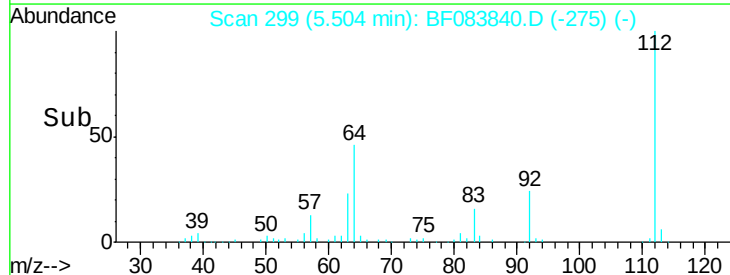
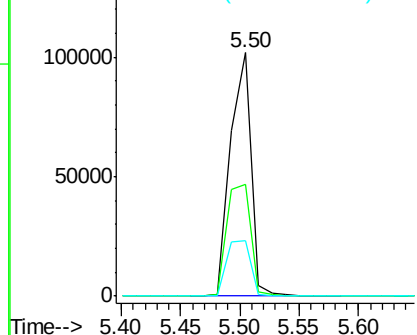
#5

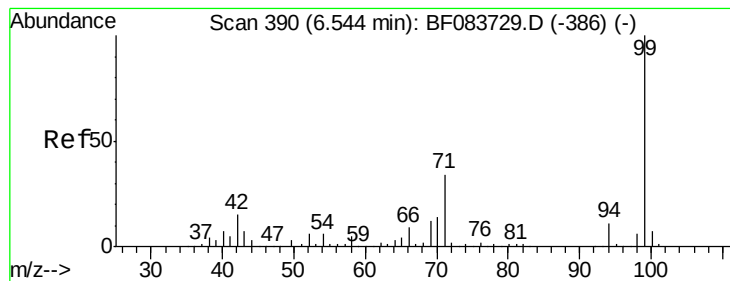
2-Fluorophenol
 Concen: 21.93 ng
 RT: 5.50 min Scan# 299
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	45.7	50.5	75.7#
63	22.9	25.8	38.6#



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 20.69 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

Instrument :

BNA_F

ClientSampleId :

K1206-0-2DL

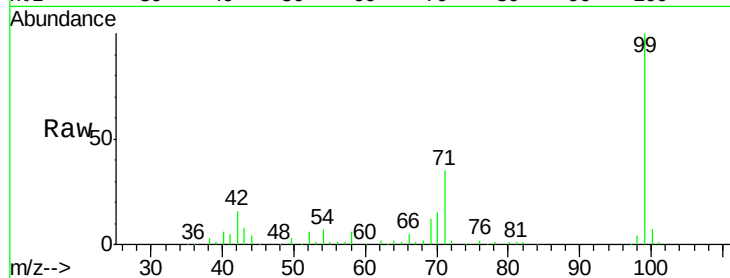
Tot Ion: 99 Resp: 146384

Ion Ratio Lower Upper

99 100

42 15.9 17.3 25.9#

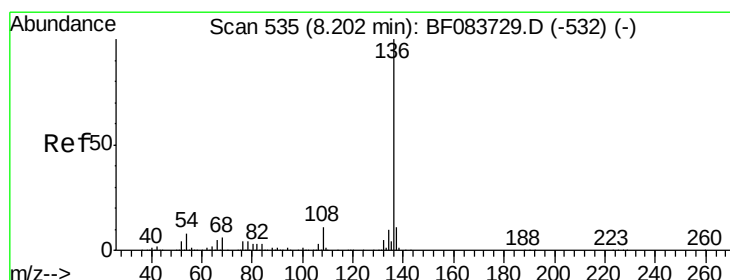
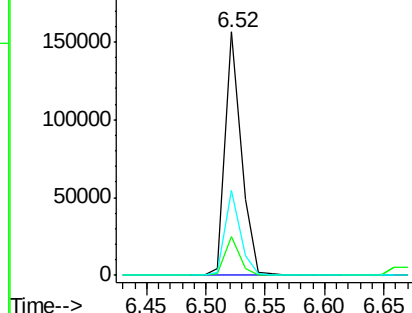
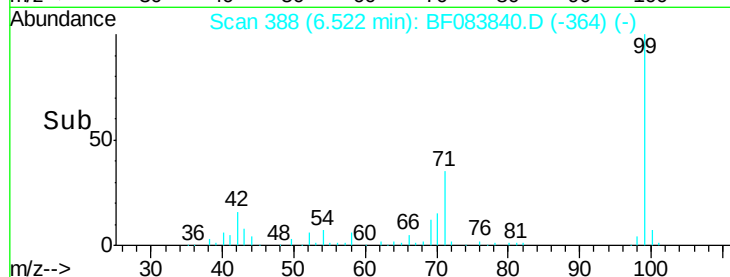
71 34.8 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

Tgt Ion: 136 Resp: 348444

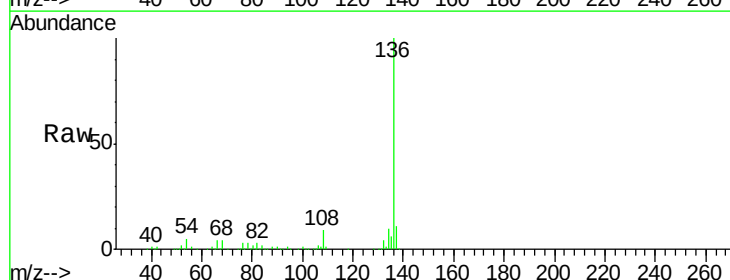
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 4.9 7.8 11.6#

68 4.2 5.7 8.5#

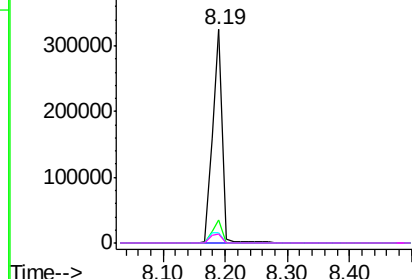
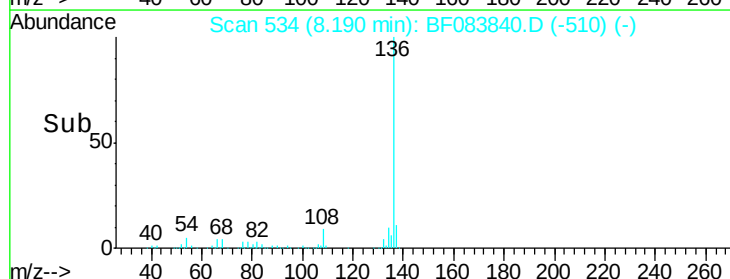


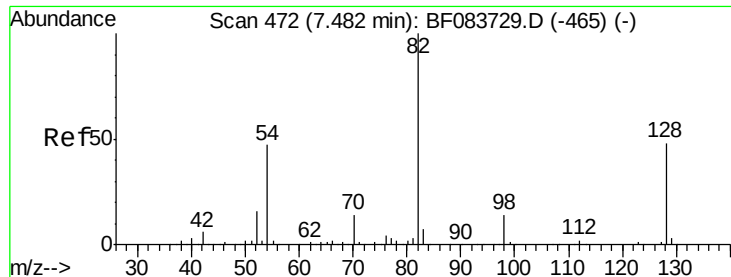
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

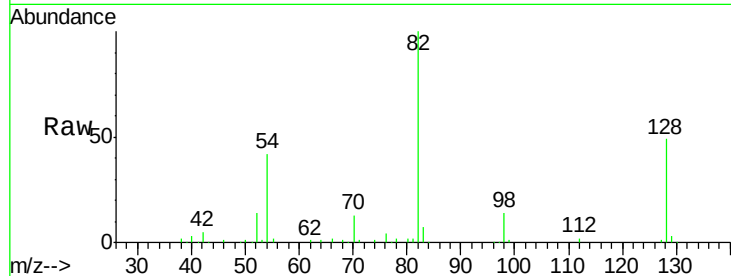




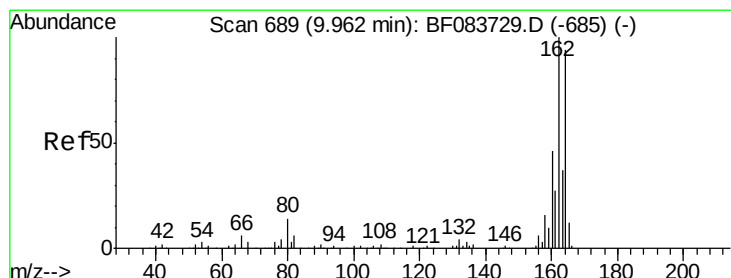
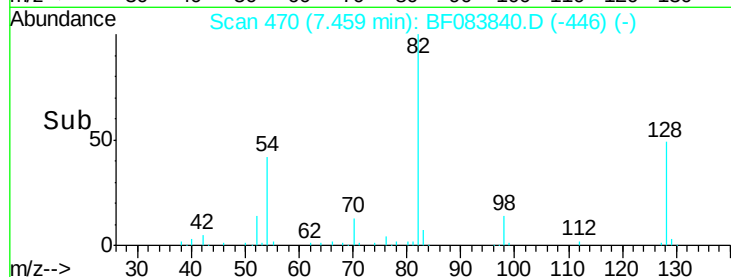
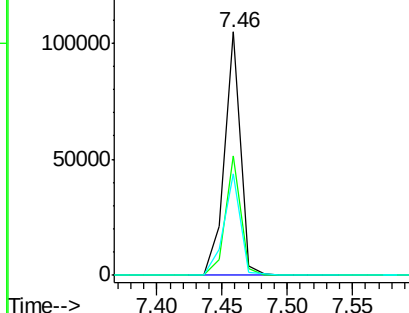
#23
 Nitrobenzene-d5
 Concen: 14.54 ng
 RT: 7.46 min Scan# 470
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Instrument :
 BNA_F
 ClientSampleId :
 K1206-0-2DL

Tot Ion: 82 Resp: 90543
 Ion Ratio Lower Upper
 82 100
 128 49.0 30.7 46.1#
 54 41.9 42.5 63.7#

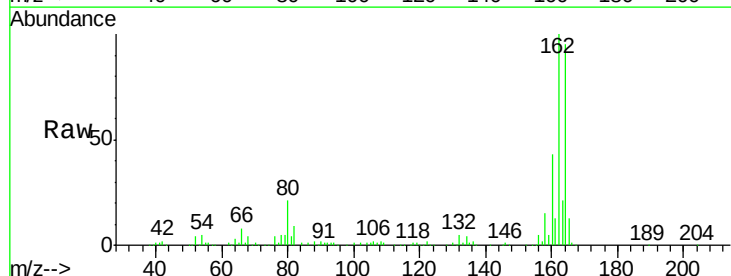


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

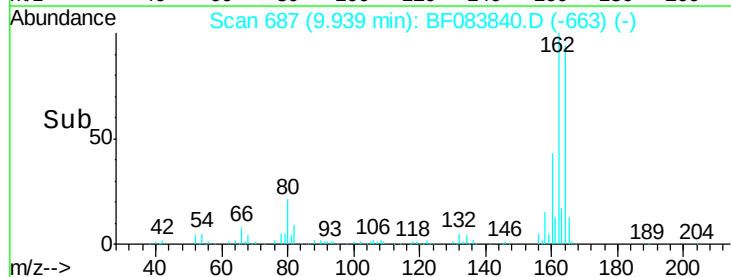
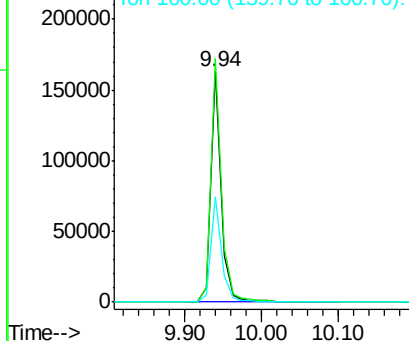


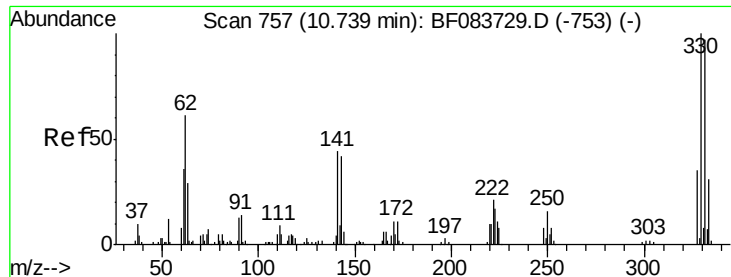
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.94 min Scan# 687
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Tgt Ion:164 Resp: 150459
 Ion Ratio Lower Upper
 164 100
 162 105.7 78.8 118.2
 160 45.9 33.4 50.2



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

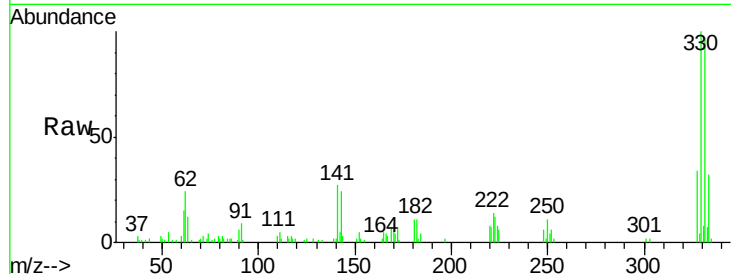




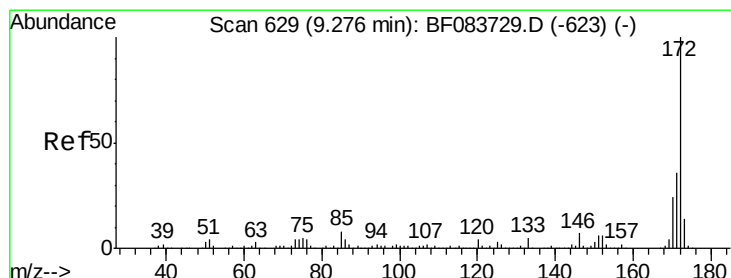
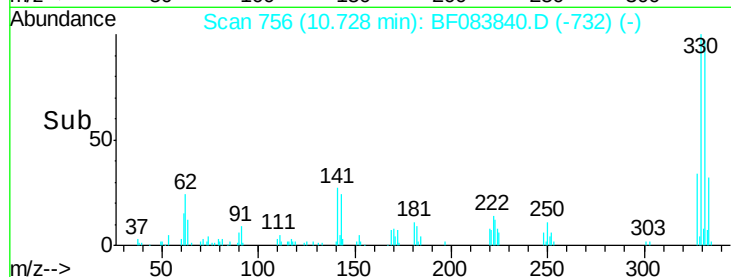
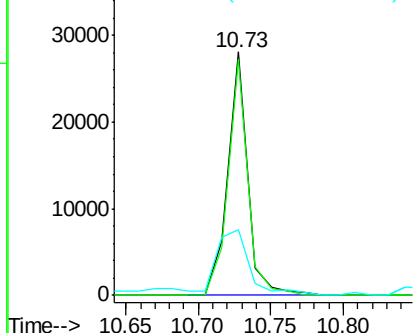
#41
 2,4,6-Tribromophenol
 Concen: 17.55 ng
 RT: 10.73 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Instrument :
 BNA_F
 ClientSampleId :
 K1206-0-2DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.1	0.0	0.0#
141	44.9	0.0	0.0#

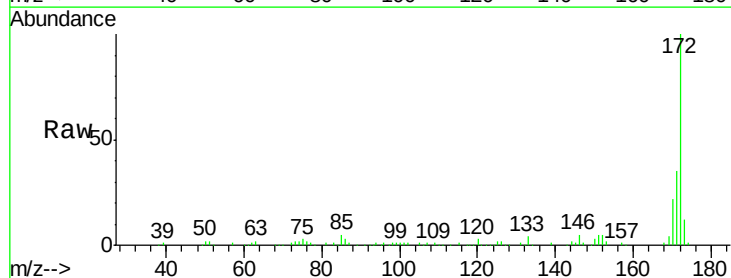


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

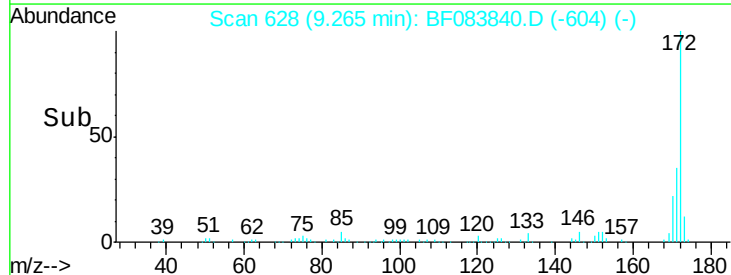
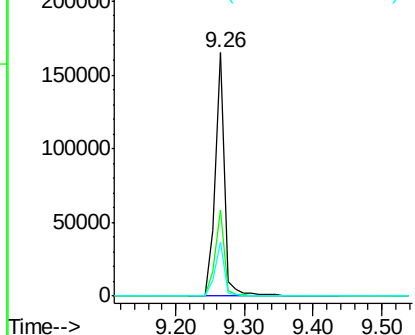


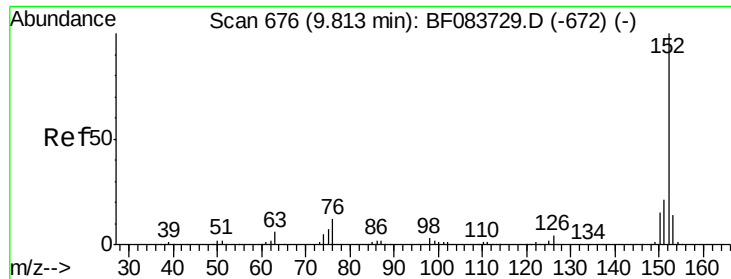
#44
 2-Fluorobiphenyl
 Concen: 13.11 ng
 RT: 9.26 min Scan# 628
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	22.4	19.4	29.0



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





#48

Acenaphthylene

Concen: 7.35 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.02 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

Instrument :

BNA_F

ClientSampleId :

K1206-0-2DL

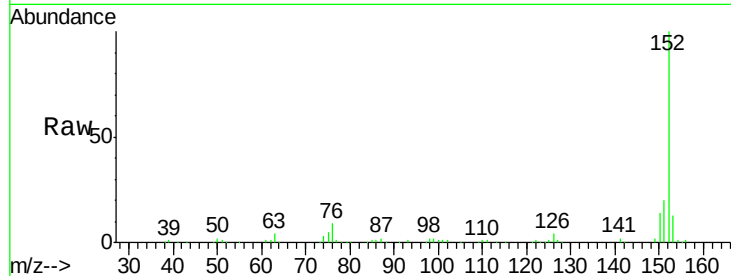
Tot Ion:152 Resp: 121735

Ion Ratio Lower Upper

152 100

151 19.9 16.3 24.5

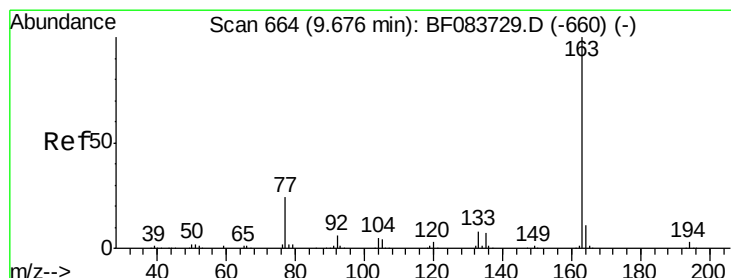
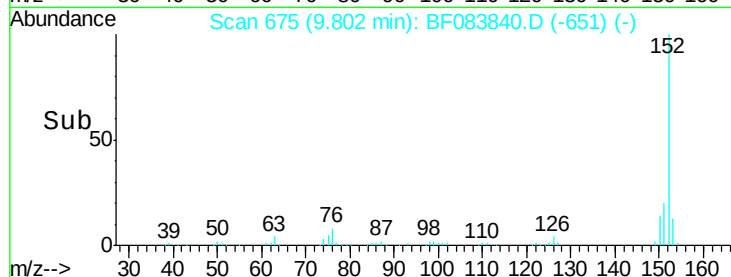
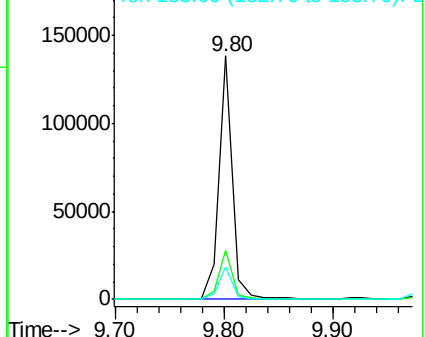
153 13.1 10.8 16.2



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



#49

Dimethylphthalate

Concen: 2.08 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.03 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

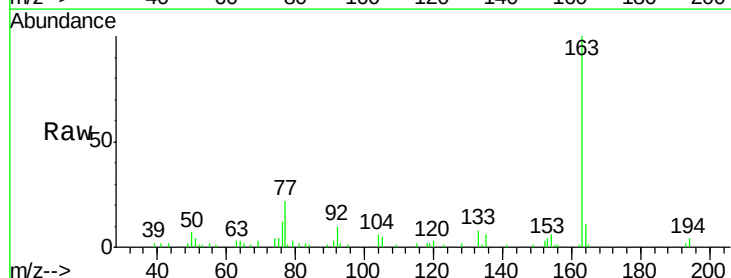
Tgt Ion:163 Resp: 24407

Ion Ratio Lower Upper

163 100

194 4.0 2.8 4.2

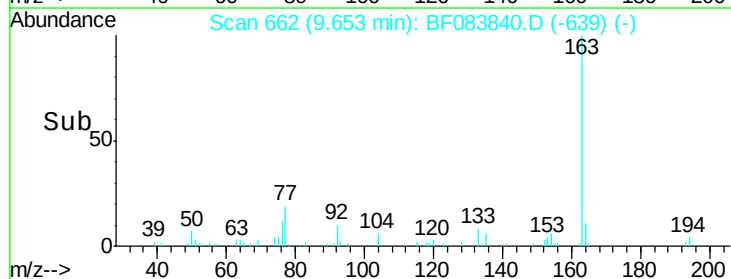
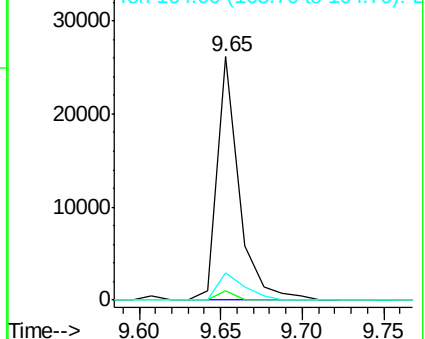
164 11.0 8.6 13.0

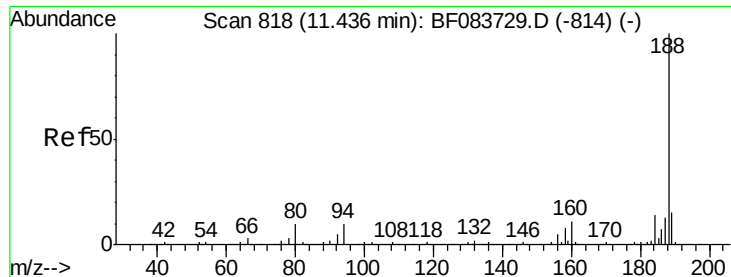


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

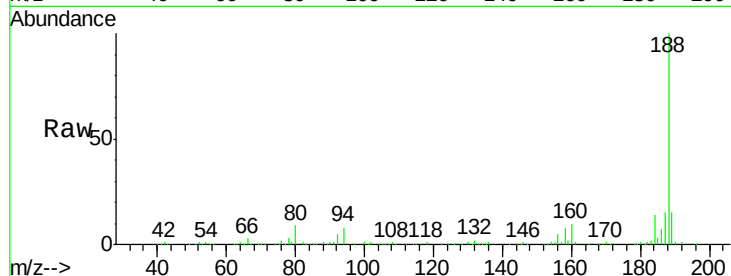




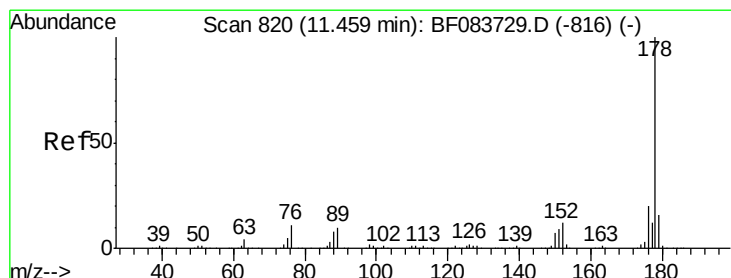
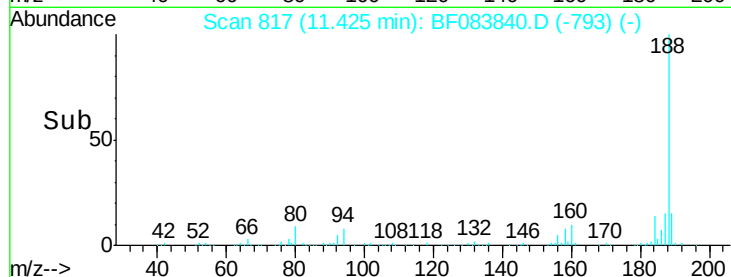
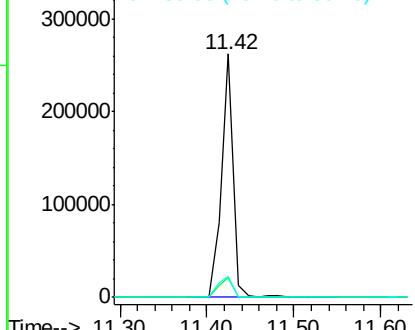
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.42 min Scan# 817
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Instrument :
 BNA_F
 ClientSampleId :
 K1206-0-2DL

Tot Ion:188 Resp: 249697
 Ion Ratio Lower Upper
 188 100
 94 8.3 9.4 14.2#
 80 8.5 10.6 16.0#

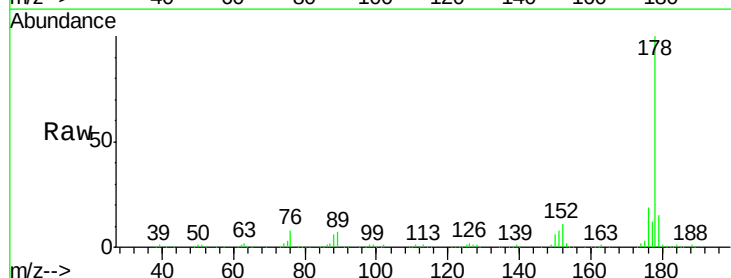


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

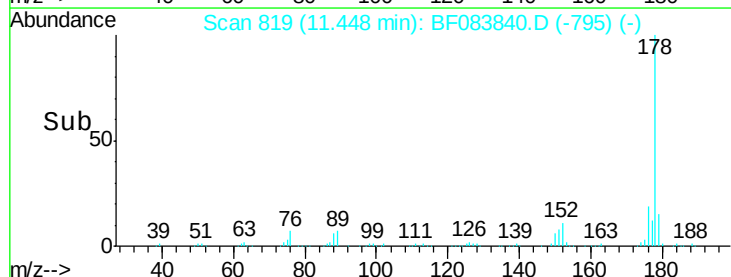
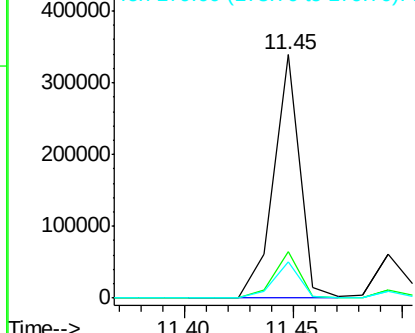


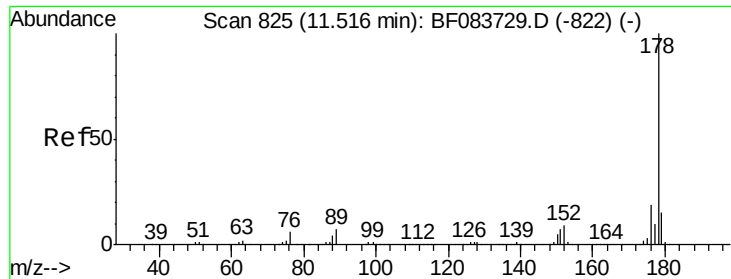
#70
 Phenanthrene
 Concen: 21.65 ng
 RT: 11.45 min Scan# 819
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Tgt Ion:178 Resp: 287241
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.7 23.5
 179 15.1 12.2 18.4



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

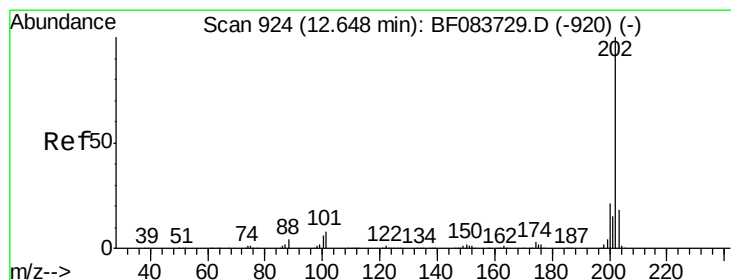
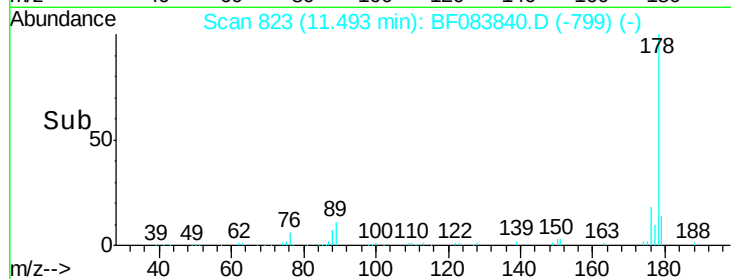
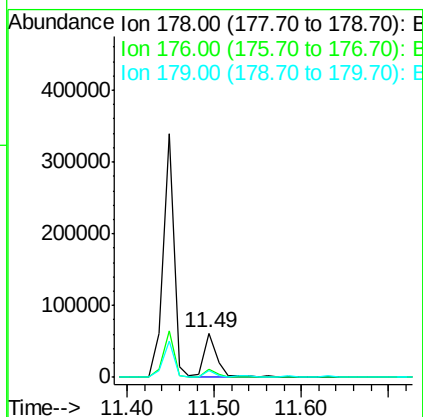
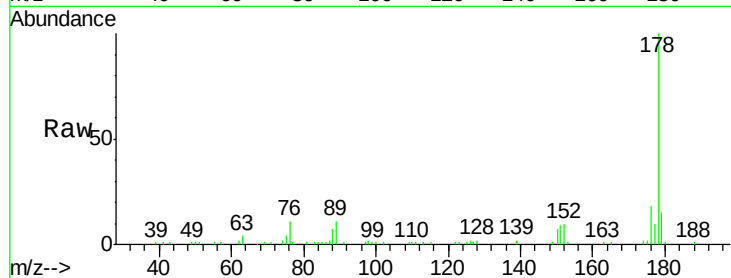




#71
 Anthracene
 Concen: 4.81 ng
 RT: 11.49 min Scan# 823
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

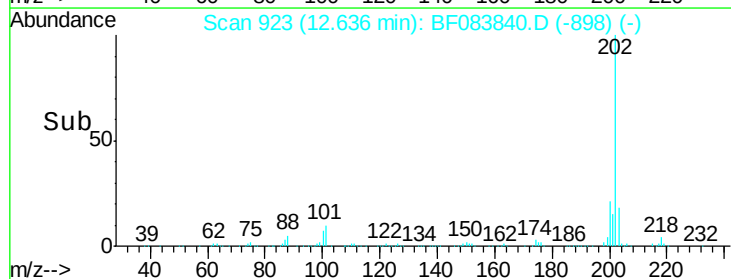
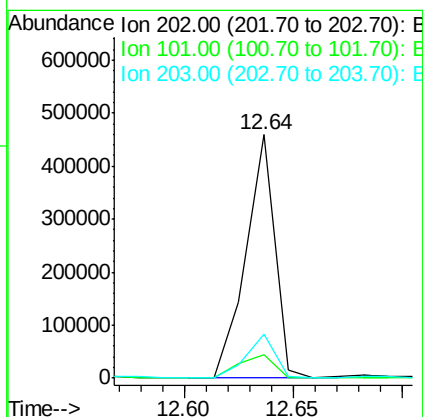
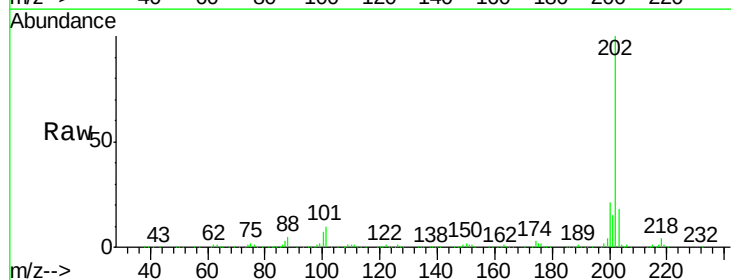
Instrument :
 BNA_F
 ClientSampleId :
 K1206-0-2DL

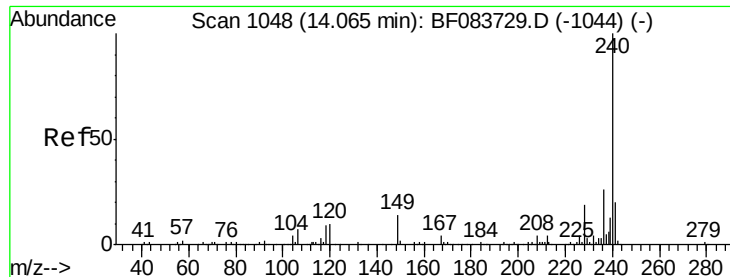
Tot Ion:178 Resp: 66312
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.2 22.8
 179 14.8 12.6 18.8



#74
 Fluoranthene
 Concen: 30.85 ng
 RT: 12.64 min Scan# 923
 Delta R.T. -0.01 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Tgt Ion:202 Resp: 422899
 Ion Ratio Lower Upper
 202 100
 101 9.7 0.0 31.5
 203 17.8 0.0 37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

Instrument :

BNA_F

ClientSampleId :

K1206-0-2DL

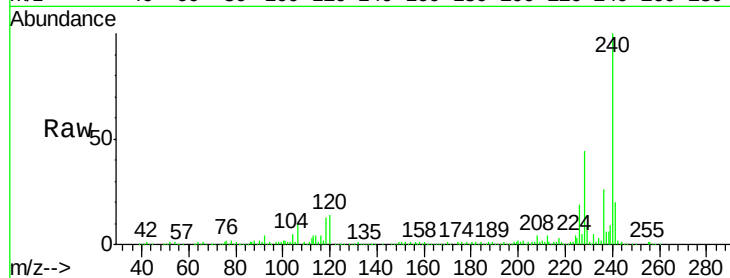
Tot Ion:240 Resp: 197645

Ion Ratio Lower Upper

240 100

120 14.3 8.1 12.1#

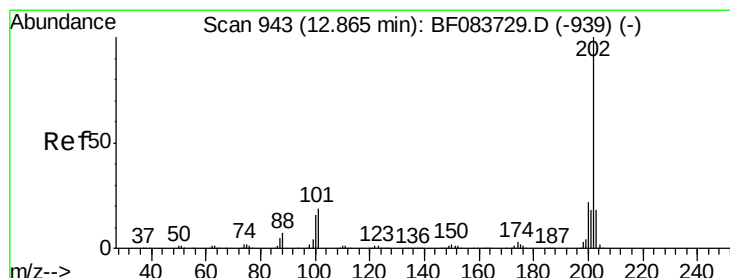
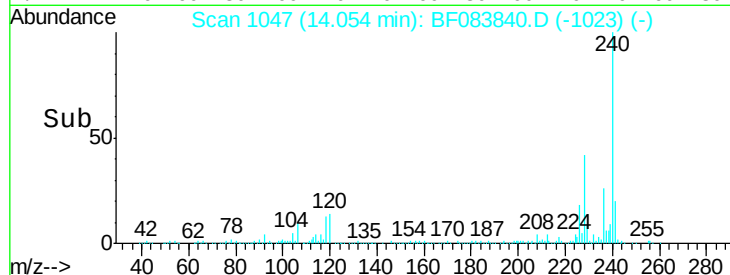
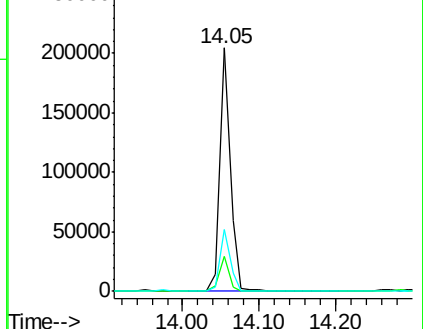
236 25.6 20.8 31.2



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: 41.42 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

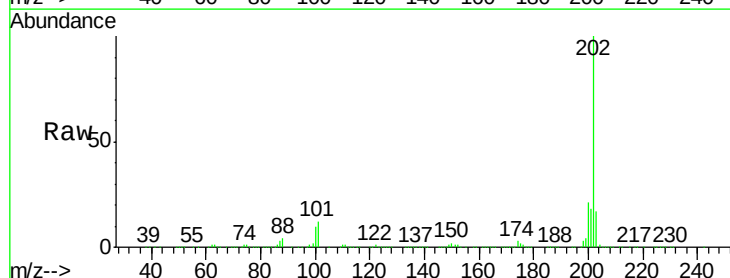
Tgt Ion:202 Resp: 647050

Ion Ratio Lower Upper

202 100

200 21.5 16.7 25.1

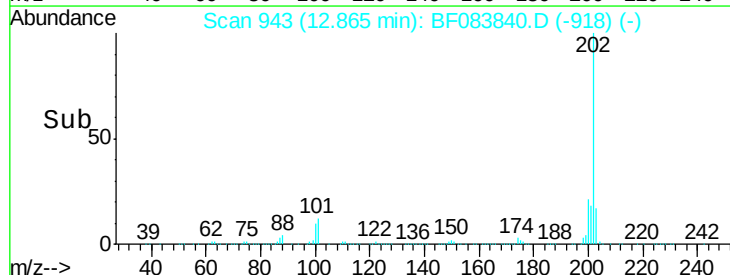
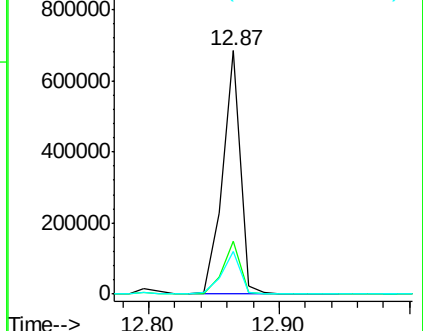
203 17.5 14.3 21.5

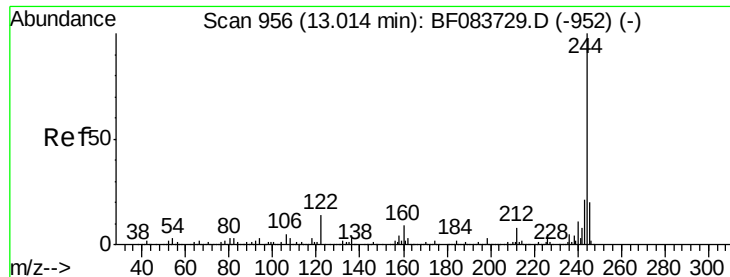


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

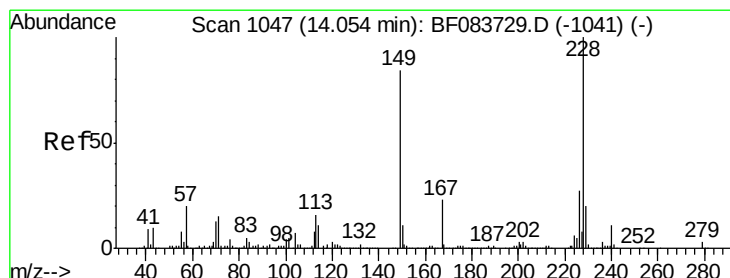
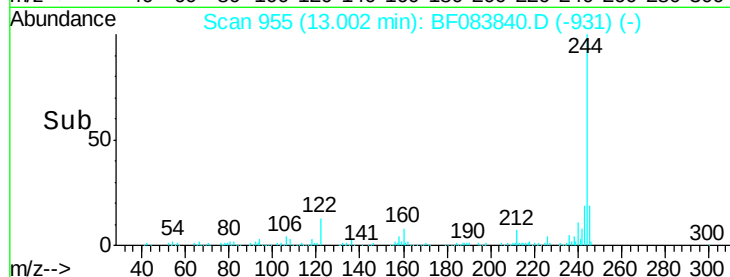
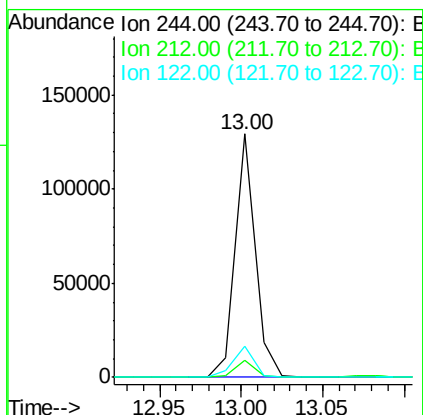
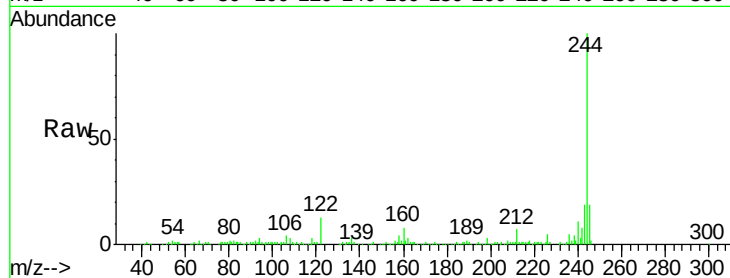




#78
 Terphenyl-d14
 Concen: 11.89 ng
 RT: 13.00 min Scan# 955
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

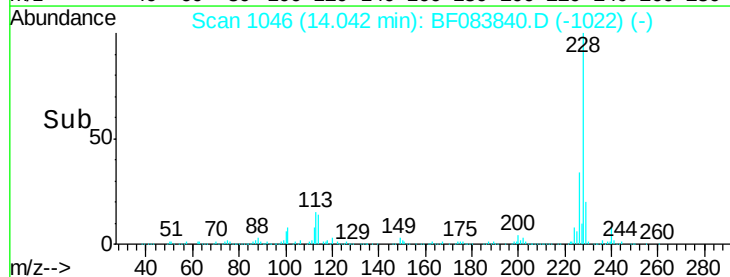
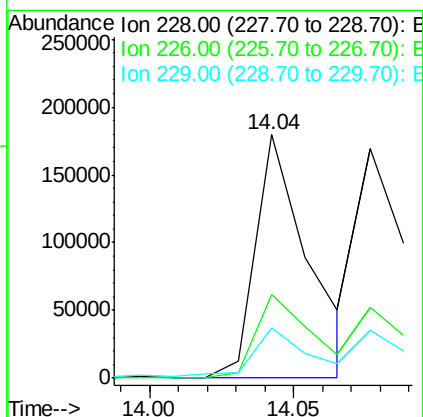
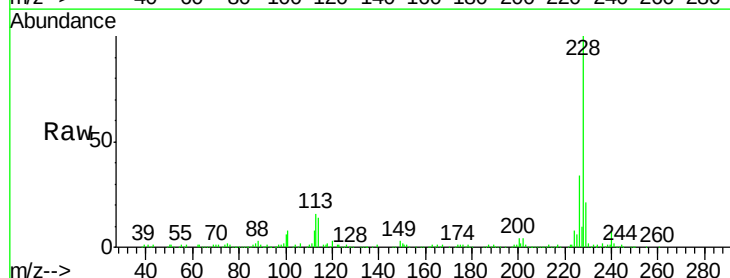
Instrument :
 BNA_F
 ClientSampleId :
 K1206-0-2DL

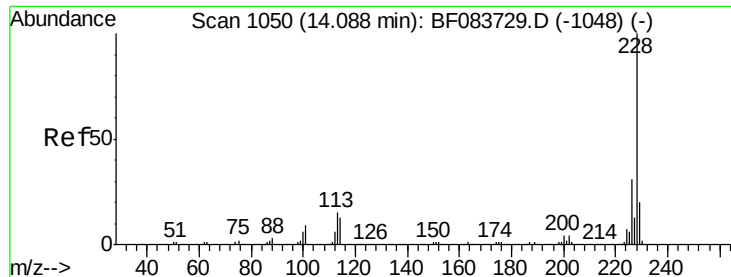
Tot Ion:244 Resp: 109234
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.1 9.1
 122 13.0 11.0 16.6



#80
 Benzo(a)anthracene
 Concen: 20.29 ng m
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.02 min
 Lab File: BF083840.D
 Acq: 16 Dec 2015 3:42

Tgt Ion:228 Resp: 228060
 Ion Ratio Lower Upper
 228 100
 226 34.2 22.3 33.5#
 229 20.6 15.7 23.5





#82

Chrysene

Concen: 17.36 ng

RT: 14.08 min Scan# 1049

Delta R.T. -0.02 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

Instrument :

BNA_F

ClientSampleId :

K1206-0-2DL

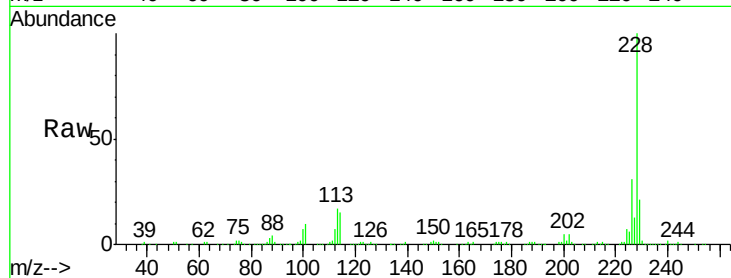
Tot Ion:228 Resp: 190284

Ion Ratio Lower Upper

228 100

226 30.8 24.7 37.1

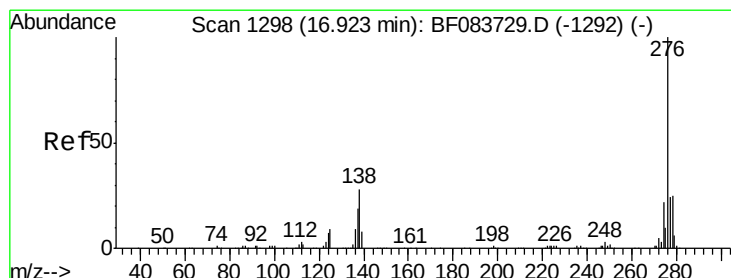
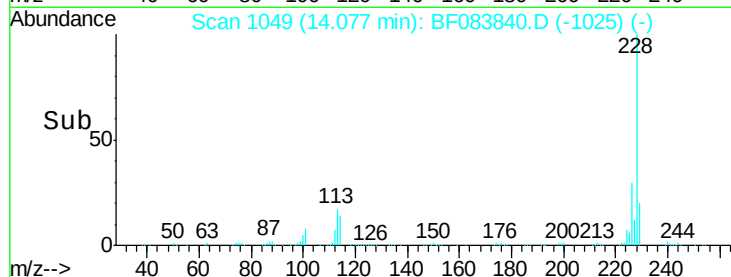
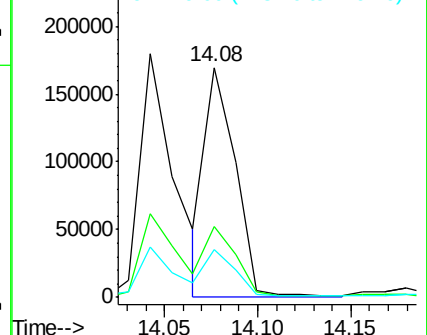
229 21.0 16.3 24.5



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: 5.81 ng

RT: 16.92 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

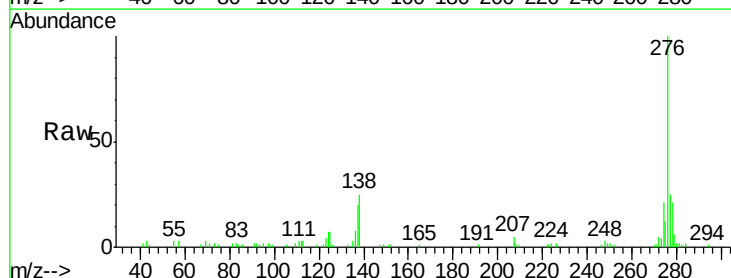
Tgt Ion:276 Resp: 62512

Ion Ratio Lower Upper

276 100

138 23.1 0.0 0.0#

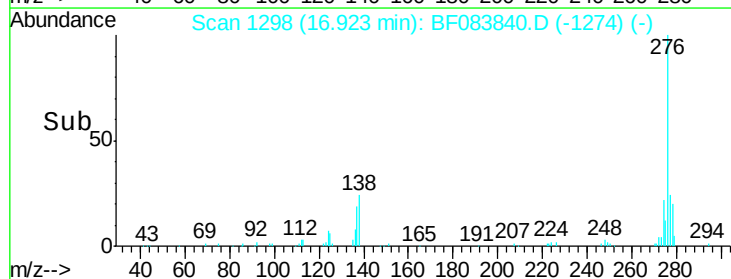
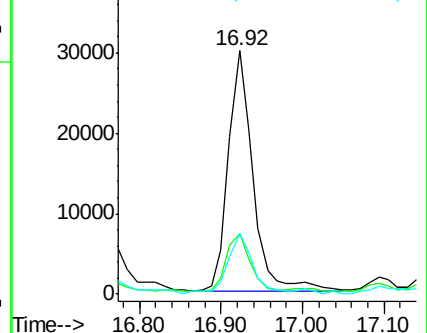
277 26.2 0.0 0.0#

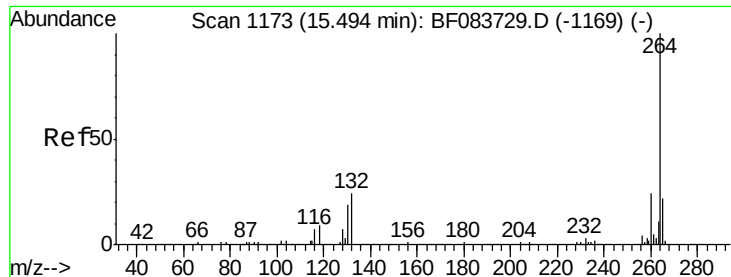


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

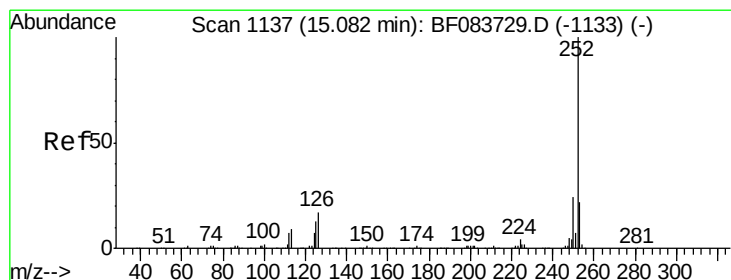
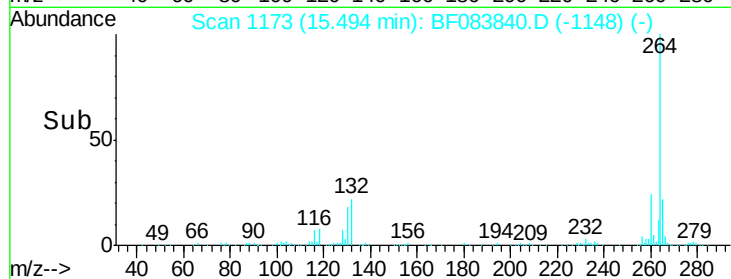
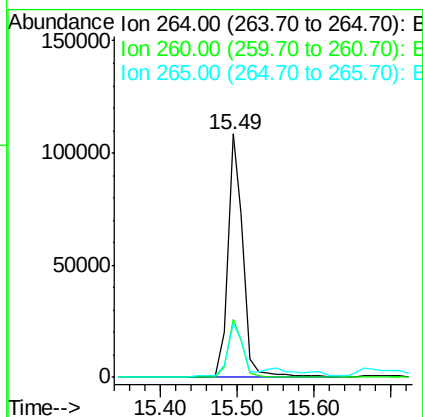
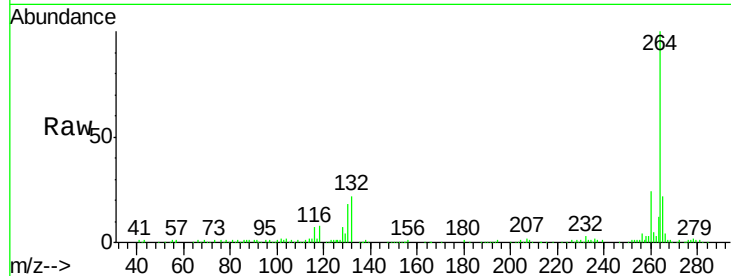




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 1173
Delta R.T. -0.01 min
Lab File: BF083840.D
Acq: 16 Dec 2015 3:42

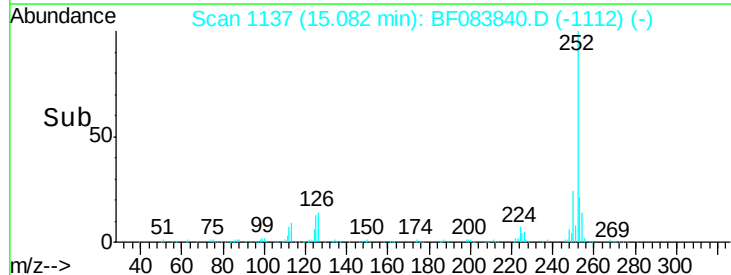
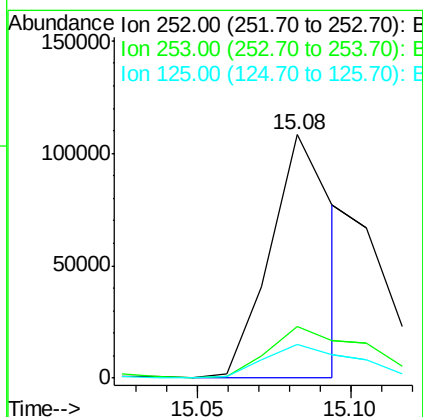
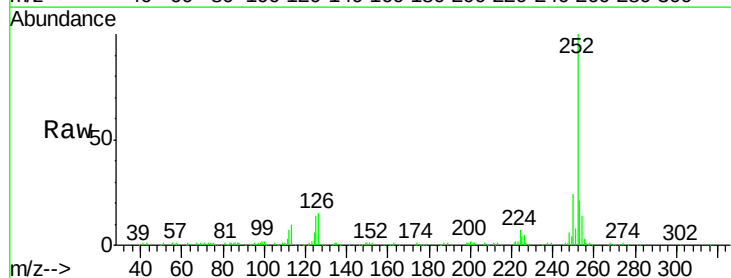
Instrument :
BNA_F
ClientSampleId :
K1206-0-2DL

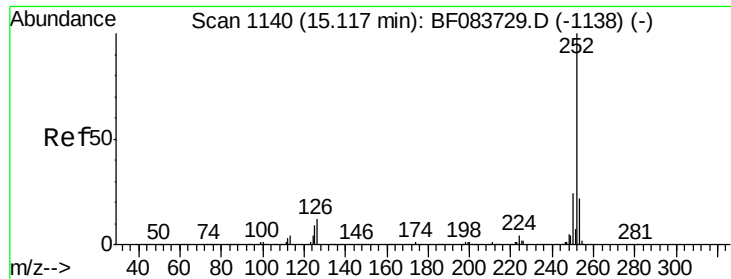
Tot Ion:264 Resp: 151736
Ion Ratio Lower Upper
264 100
260 23.9 19.4 29.0
265 22.5 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 16.15 ng m
RT: 15.08 min Scan# 1137
Delta R.T. -0.01 min
Lab File: BF083840.D
Acq: 16 Dec 2015 3:42

Tgt Ion:252 Resp: 156335
Ion Ratio Lower Upper
252 100
253 21.3 18.2 27.4
125 13.6 8.2 12.4#





#88

Benzo(k)fluoranthene

Concen: 7.57 ng/mL

RT: 15.09 min Scan# 1138

Delta R.T. -0.03 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

Instrument :

BNA_F

ClientSampleId :

K1206-0-2DL

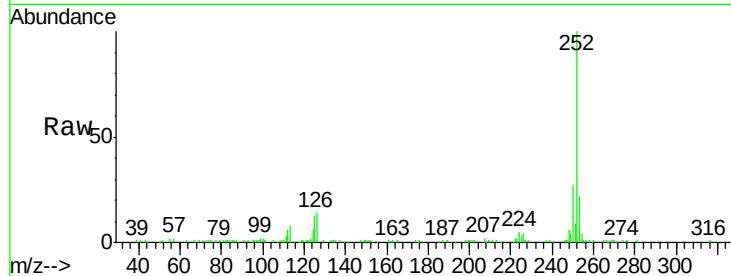
Tot Ion:252 Resp: 66399

Ion Ratio Lower Upper

252 100

253 21.9 18.6 27.8

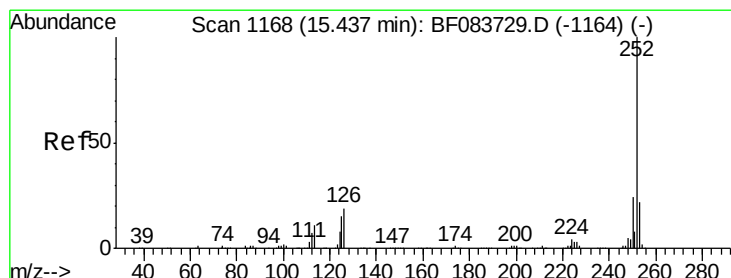
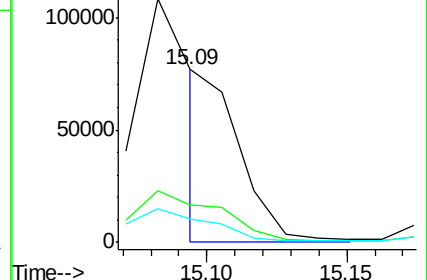
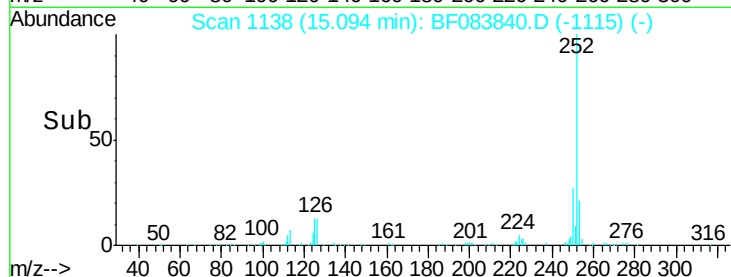
125 13.3 11.5 17.3



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: 8.78 ng/mL

RT: 15.44 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

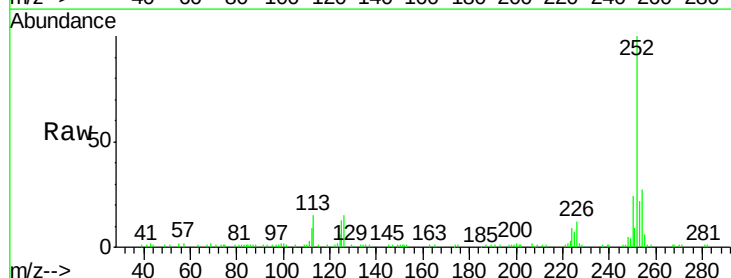
Tgt Ion:252 Resp: 75849

Ion Ratio Lower Upper

252 100

253 22.0 17.5 26.3

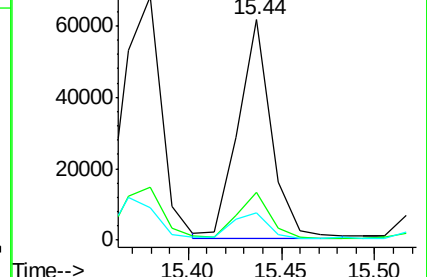
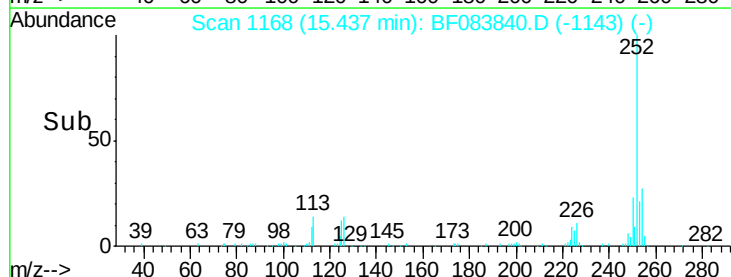
125 12.6 11.0 16.6

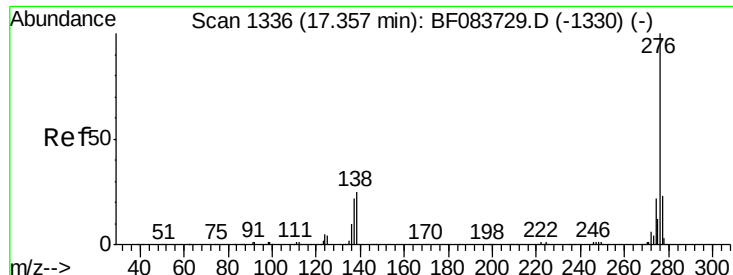


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 7.18 ng

RT: 17.36 min Scan# 1336

Delta R.T. -0.02 min

Lab File: BF083840.D

Acq: 16 Dec 2015 3:42

Instrument :

BNA_F

ClientSampleId :

K1206-0-2DL

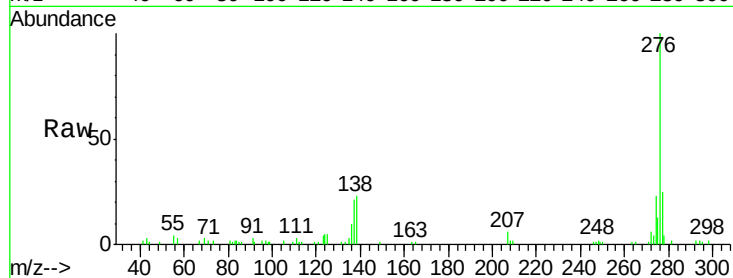
Tot Ion: 276 Resp: 63360

Ion Ratio Lower Upper

276 100

277 24.7 19.2 28.8

138 23.4 19.5 29.3



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

