

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\
 Data File : BF083841.D
 Acq On : 16 Dec 2015 4:10
 Operator : UM/IZ
 Sample : G4739-09DL 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K206-18-19DL

Quant Time: Dec 16 07:36:38 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

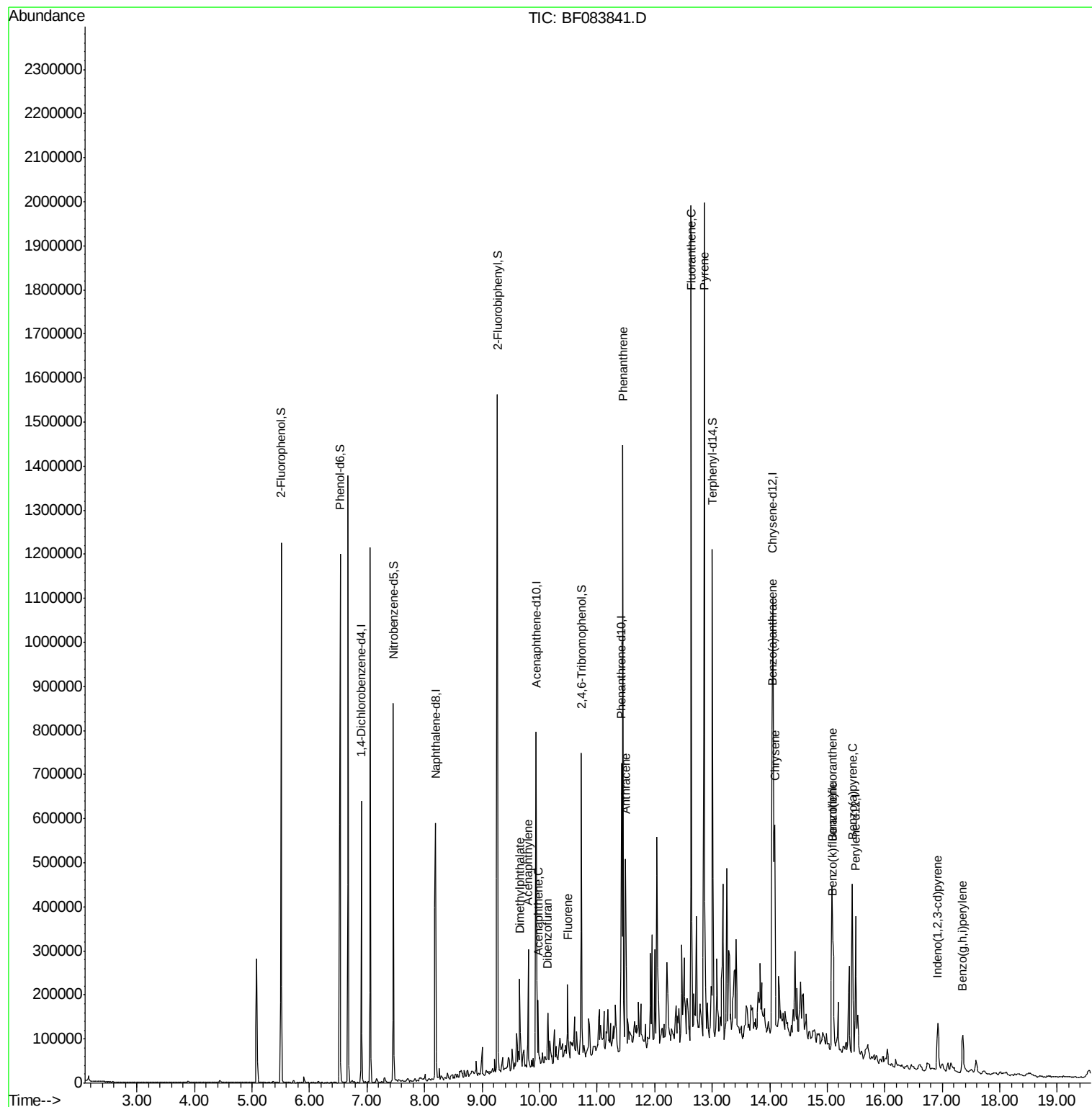
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	91206	20.00	ng	-0.02
21) Naphthalene-d8	8.19	136	347673	20.00	ng	-0.02
38) Acenaphthene-d10	9.94	164	147255	20.00	ng	-0.02
63) Phenanthrene-d10	11.43	188	239610	20.00	ng	-0.02
75) Chrysene-d12	14.05	240	192046	20.00	ng	-0.02
86) Perylene-d12	15.49	264	147175	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	340933	60.30	ng	-0.02
7) Phenol-d6	6.53	99	489075	68.31	ng	-0.01
23) Nitrobenzene-d5	7.46	82	257648	41.46	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	86957	57.95	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	490167	42.54	ng	-0.02
78) Terphenyl-d14	13.00	244	336154	37.65	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.80	152	99830	6.16	ng	99
49) Dimethylphthalate	9.65	163	73398	6.39	ng	99
51) Acenaphthene	9.97	154	30780	3.14	ng	99
54) Dibenzofuran	10.14	168	26103	2.01	ng	# 91
57) Fluorene	10.49	166	49799m	4.87	ng	
70) Phenanthrene	11.45	178	467217	36.71	ng	99
71) Anthracene	11.49	178	204495	15.47	ng	99
74) Fluoranthene	12.64	202	706799	53.74	ng	97
77) Pyrene	12.87	202	784219	51.67	ng	98
80) Benzo(a)anthracene	14.04	228	327972	30.03	ng	# 90
82) Chrysene	14.09	228	248009m	23.28	ng	
85) Indeno(1,2,3-cd)pyrene	16.92	276	71751	6.86	ng	# 100
87) Benzo(b)fluoranthene	15.08	252	200607m	21.37	ng	
88) Benzo(k)fluoranthene	15.09	252	84648m	9.95	ng	
89) Benzo(a)pyrene	15.44	252	179004	21.36	ng	99
91) Benzo(g,h,i)perylene	17.36	276	74408	8.69	ng	100

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

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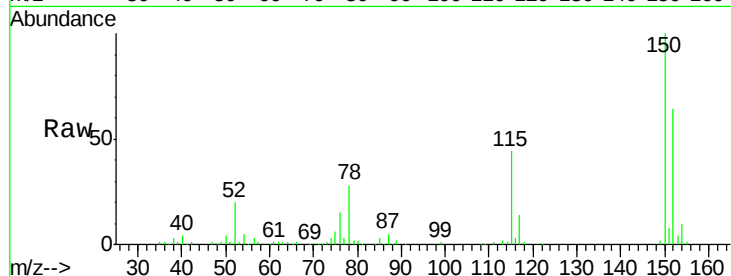


#1

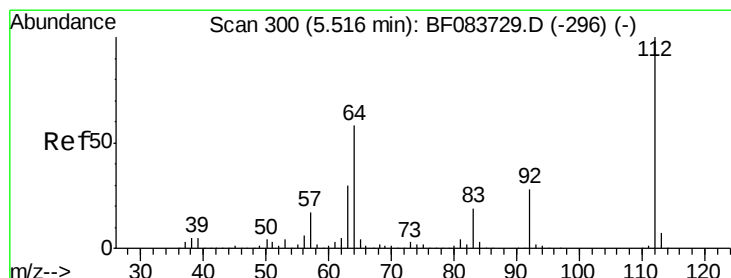
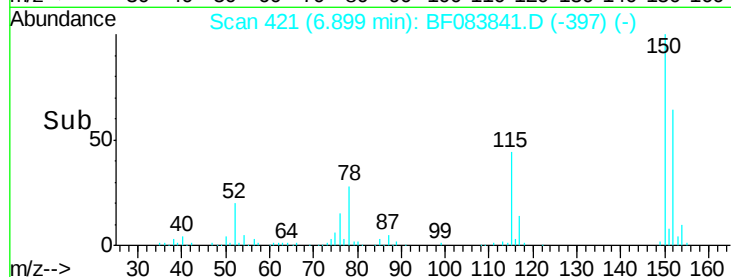
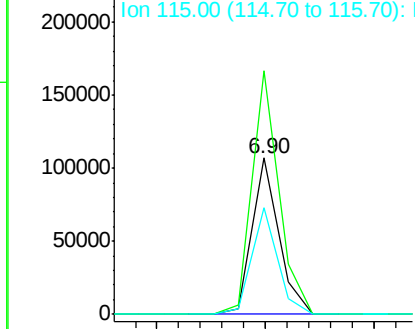
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.02 min
Lab File: BF083841.D
Acq: 16 Dec 2015 4:10

Instrument :
BNA_F
ClientSampleId :
K206-18-19DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	126.5	189.7
115	68.2	52.3	78.5



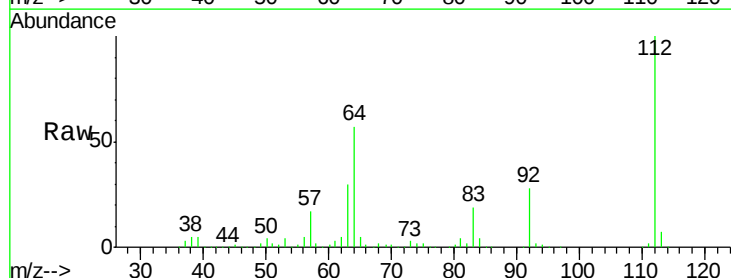
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



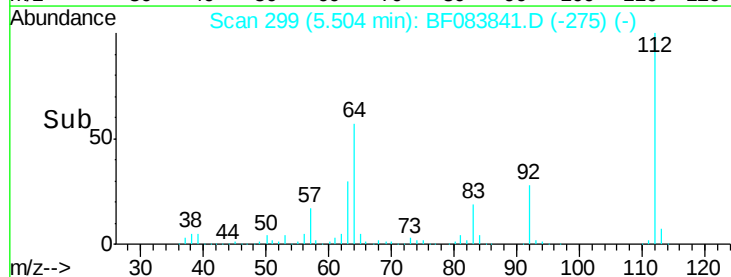
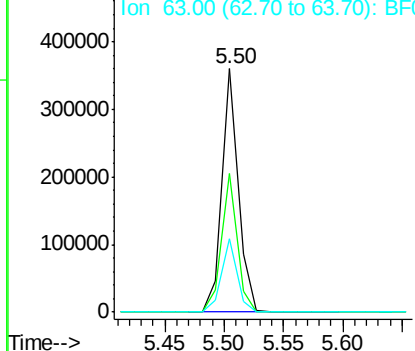
#5

2-Fluorophenol
Concen: 60.30 ng
RT: 5.50 min Scan# 299
Delta R.T. -0.02 min
Lab File: BF083841.D
Acq: 16 Dec 2015 4:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.0	50.5	75.7
63	29.9	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: 68.31 ng

RT: 6.53 min Scan# 389

Delta R.T. -0.01 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

BNA_F

ClientSampleId :

K206-18-19DL

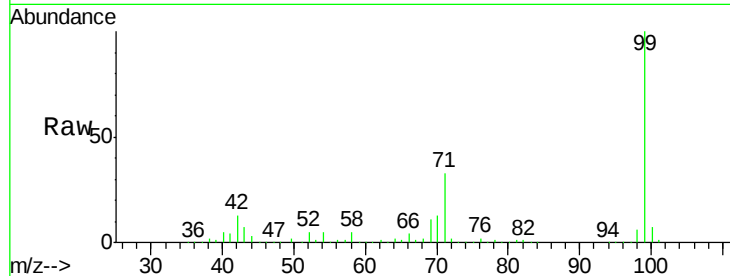
Tot Ion: 99 Resp: 489075

Ion Ratio Lower Upper

99 100

42 13.0 17.3 25.9#

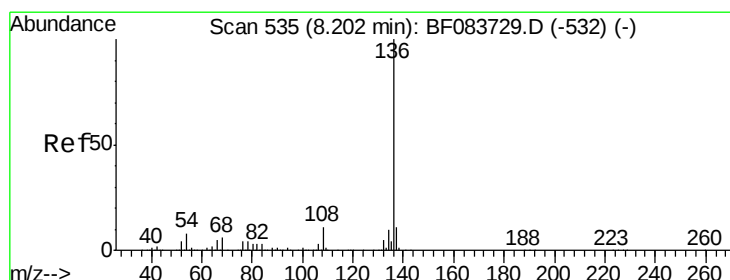
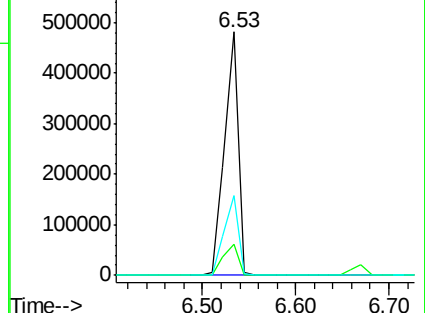
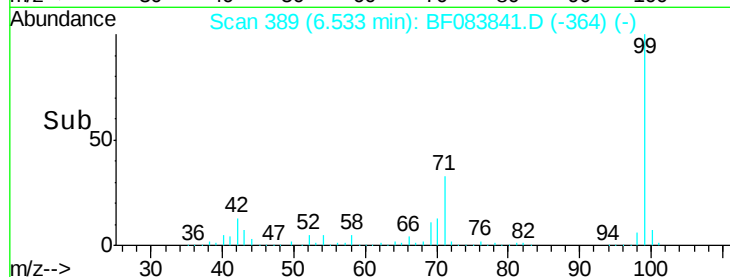
71 32.6 26.6 40.0



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: BF083841.D

Acq: 16 Dec 2015 4:10

Tgt Ion: 136 Resp: 347673

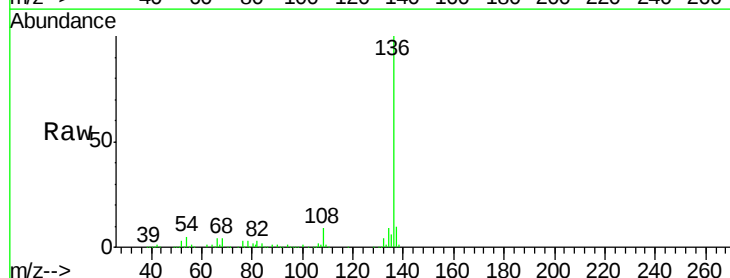
Ion Ratio Lower Upper

136 100

137 10.3 8.7 13.1

54 4.7 7.8 11.6#

68 4.2 5.7 8.5#

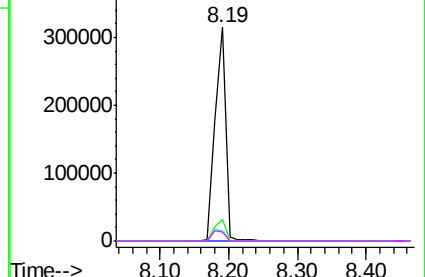
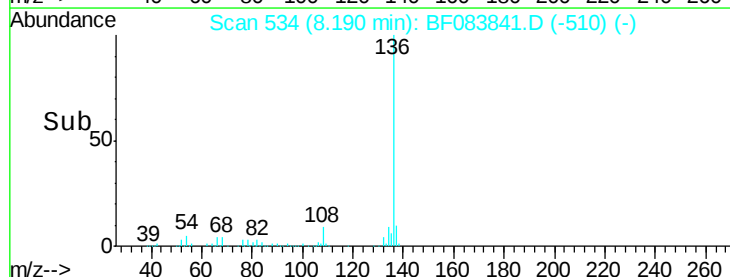


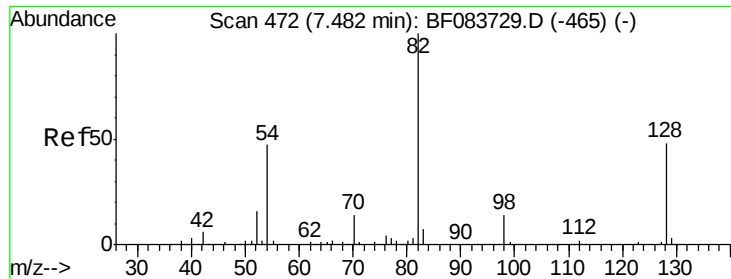
Abundance Ion 136.00 (135.70 to 136.70): E

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

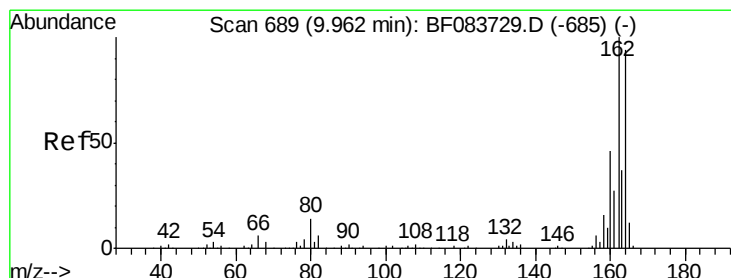
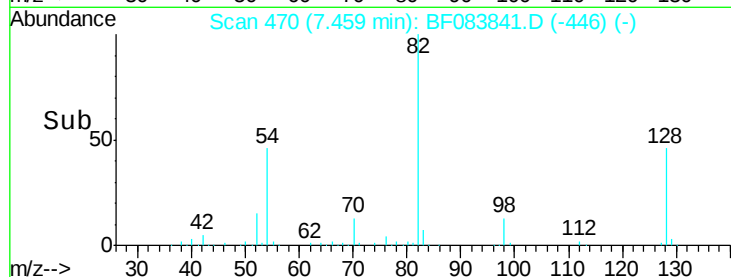
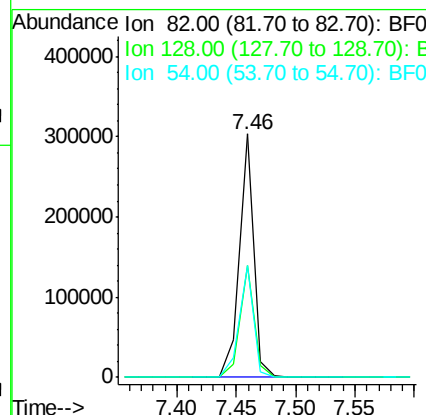
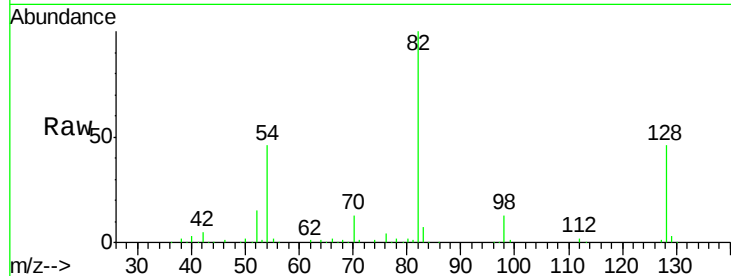




#23
 Nitrobenzene-d5
 Concen: 41.46 ng
 RT: 7.46 min Scan# 470
 Delta R.T. -0.02 min
 Lab File: BF083841.D
 Acq: 16 Dec 2015 4:10

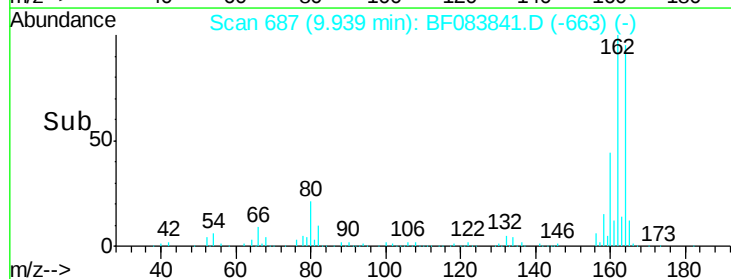
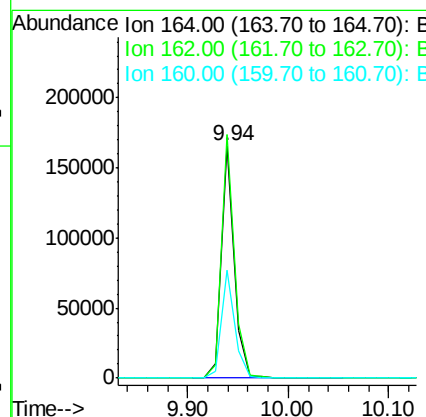
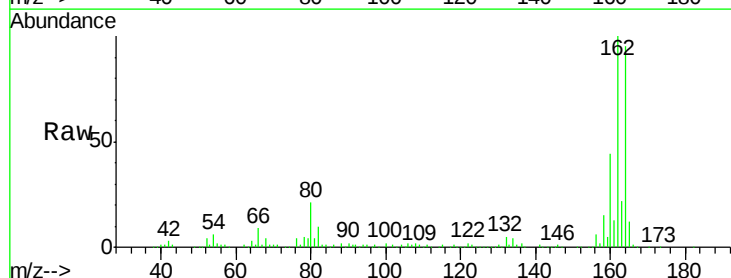
Instrument :
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 K206-18-19DL

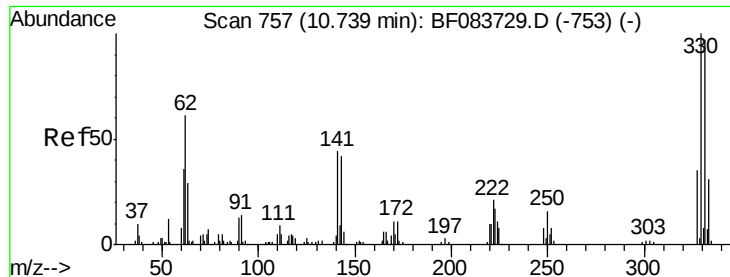
Tot Ion	82	Resp	257648
Ion Ratio	100	Lower	Upper
128	46.0	30.7	46.1
54	45.9	42.5	63.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.94 min Scan# 687
 Delta R.T. -0.02 min
 Lab File: BF083841.D
 Acq: 16 Dec 2015 4:10

Tgt Ion	164	Resp	147255
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
162	104.8	78.8	118.2
160	46.2	33.4	50.2

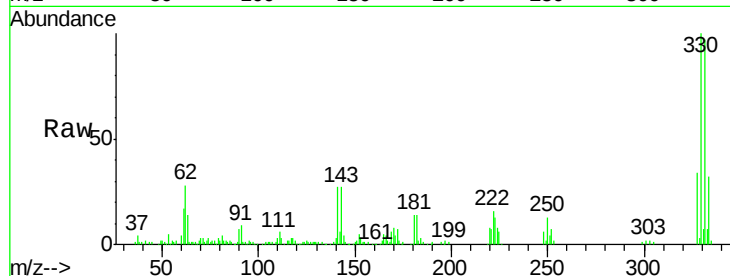




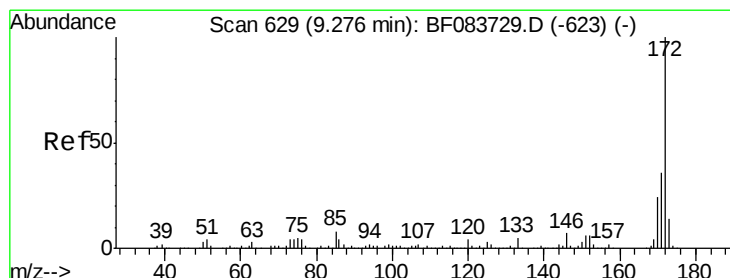
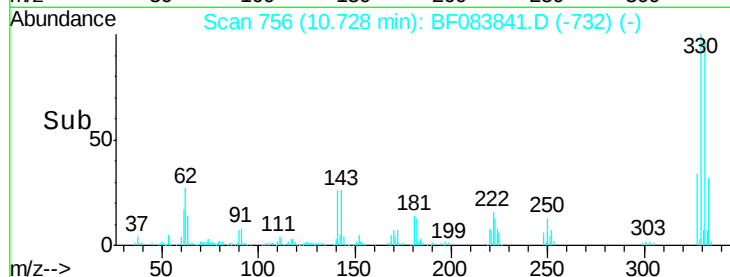
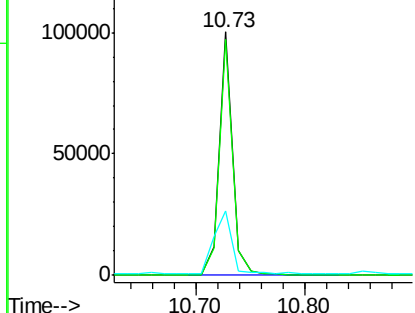
#41
 2,4,6-Tribromophenol
 Concen: 57.95 ng
 RT: 10.73 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: BF083841.D
 Acq: 16 Dec 2015 4:10

Instrument :
 BNA_F
 ClientSampleId :
 K206-18-19DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	0.0	0.0#
141	37.0	0.0	0.0#

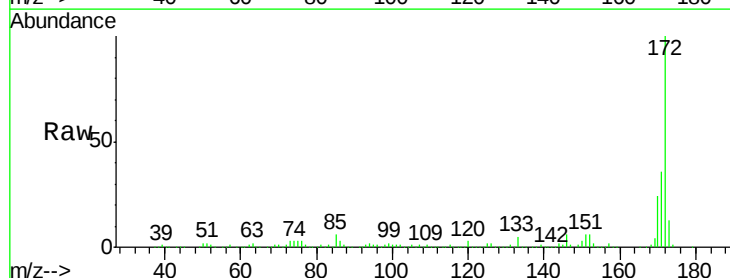


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

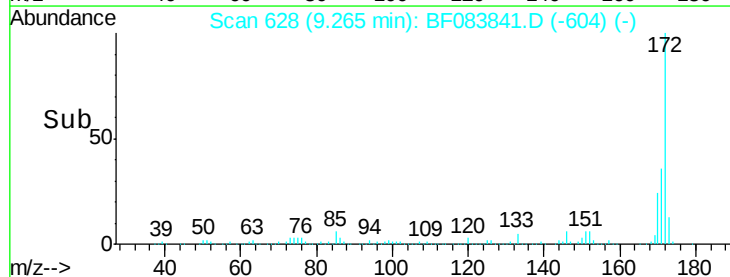
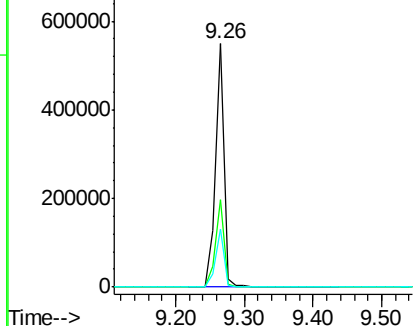


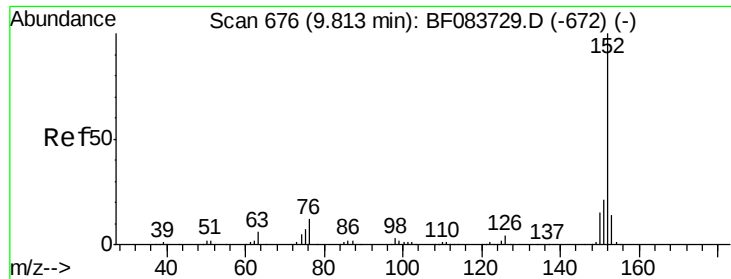
#44
 2-Fluorobiphenyl
 Concen: 42.54 ng
 RT: 9.26 min Scan# 628
 Delta R.T. -0.02 min
 Lab File: BF083841.D
 Acq: 16 Dec 2015 4:10

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	42.8
170	23.6	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: 6.16 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

BNA_F

ClientSampleId :

K206-18-19DL

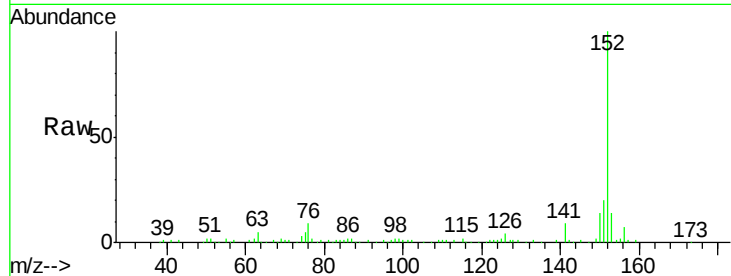
Tot Ion:152 Resp: 99830

Ion Ratio Lower Upper

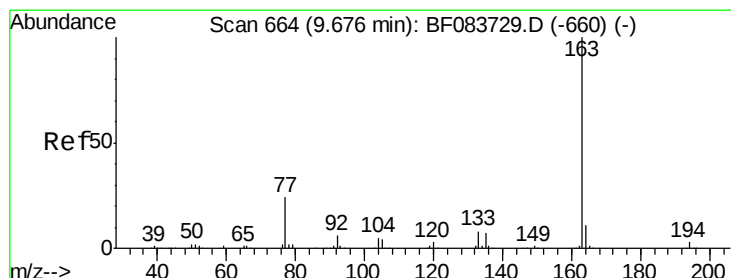
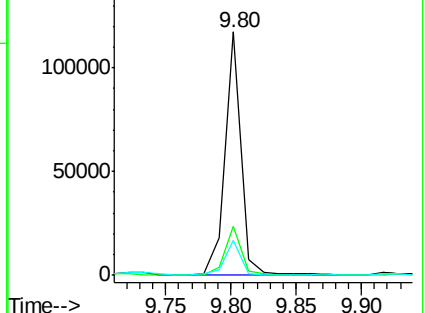
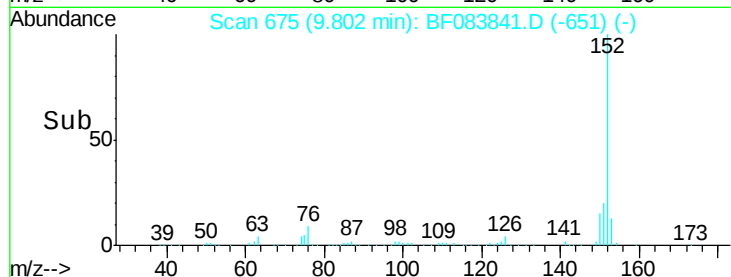
152 100

151 20.1 16.3 24.5

153 14.4 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: 6.39 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.03 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

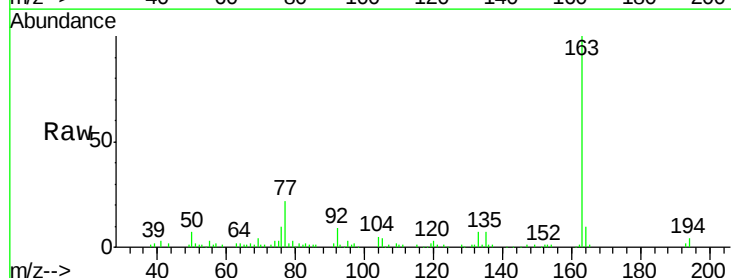
Tgt Ion:163 Resp: 73398

Ion Ratio Lower Upper

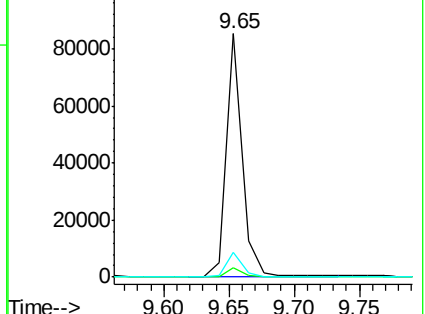
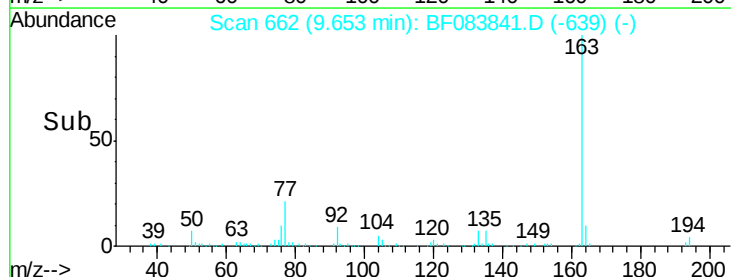
163 100

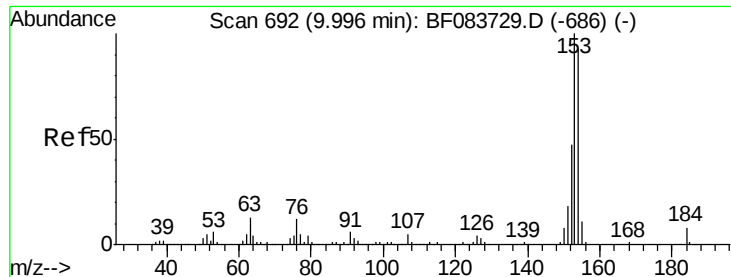
194 3.7 2.8 4.2

164 10.4 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





#51

Acenaphthene

Concen: 3.14 ng

RT: 9.97 min Scan# 690

Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

BNA_F

ClientSampleId :

K206-18-19DL

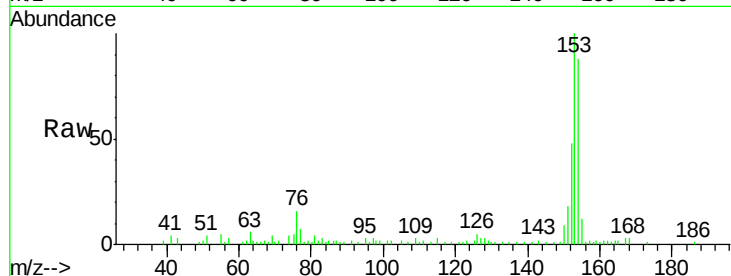
Tot Ion:154 Resp: 30780

Ion Ratio Lower Upper

154 100

153 113.4 91.4 137.0

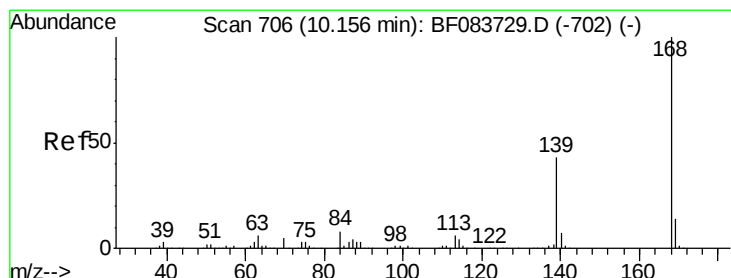
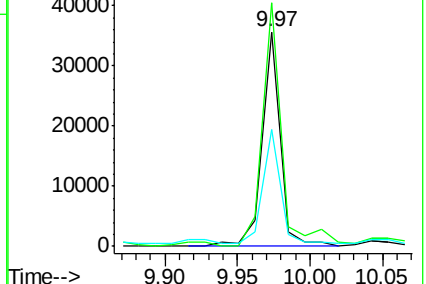
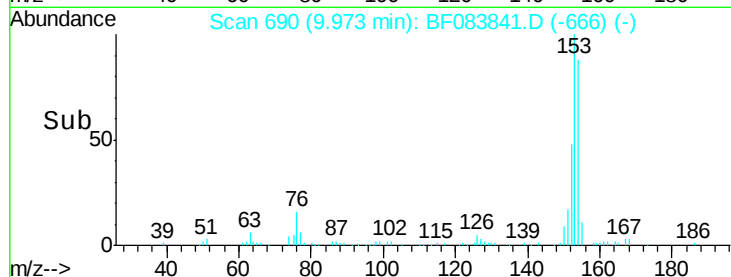
152 54.6 43.4 65.2



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



#54

Dibenzofuran

Concen: 2.01 ng

RT: 10.14 min Scan# 705

Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

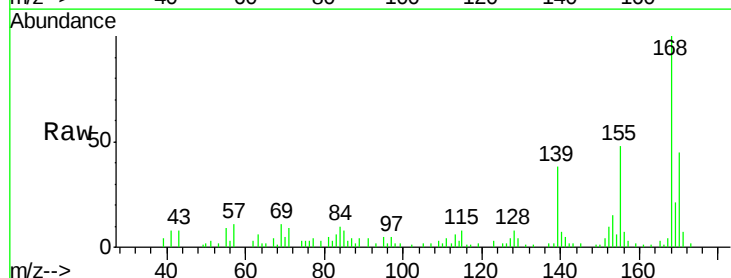
Tgt Ion:168 Resp: 26103

Ion Ratio Lower Upper

168 100

139 38.2 28.0 42.0

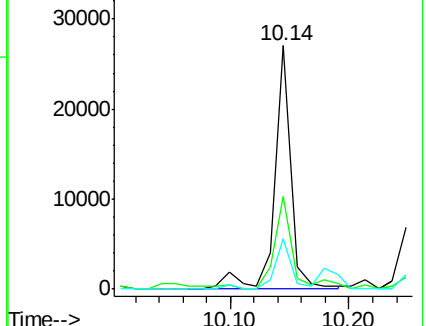
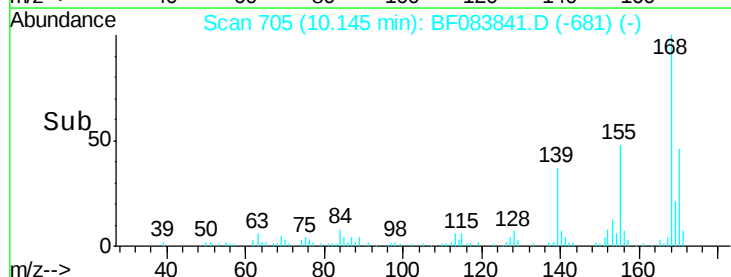
169 20.8 10.8 16.2#

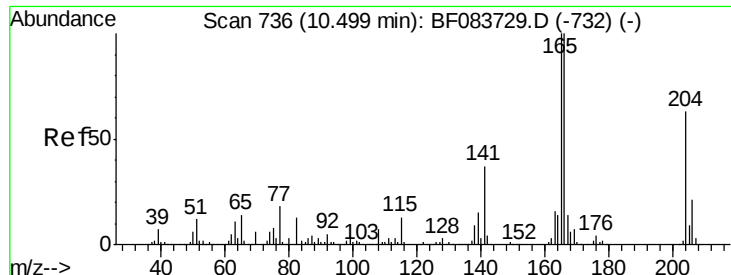


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

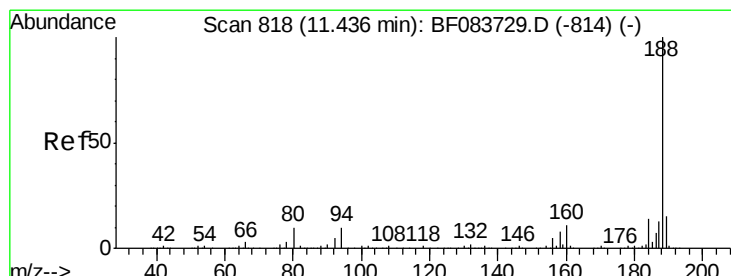
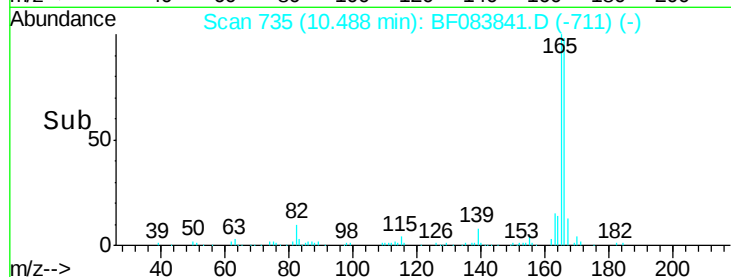
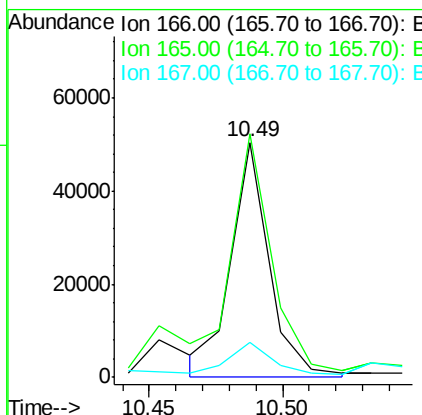
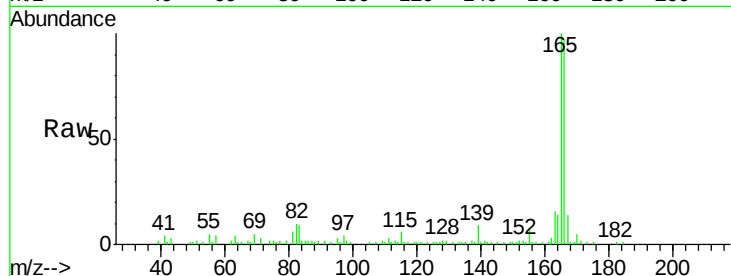




#57
Fluorene
 Concen: 4.87 ng/ml
 RT: 10.49 min Scan# 735
 Delta R.T. -0.02 min
 Lab File: BF083841.D
 Acq: 16 Dec 2015 4:10

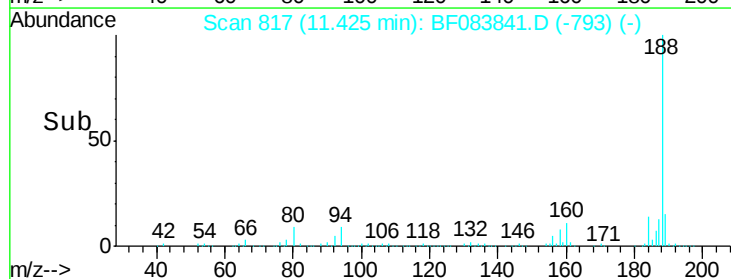
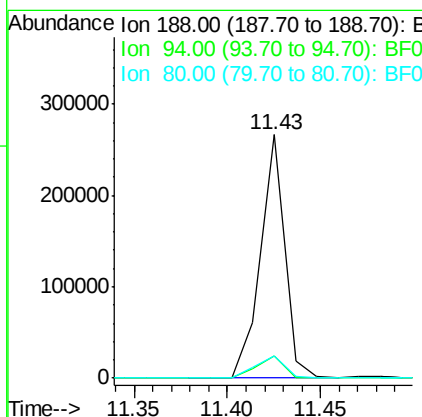
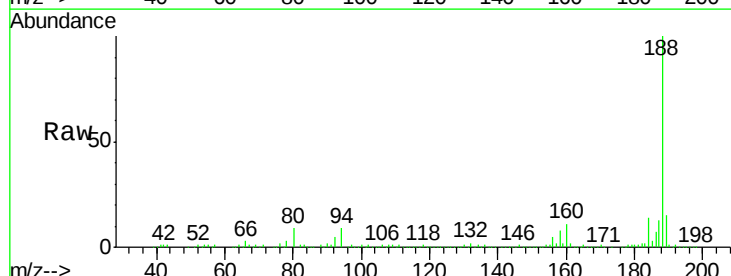
Instrument :
 BNA_F
 ClientSampleId :
 K206-18-19DL

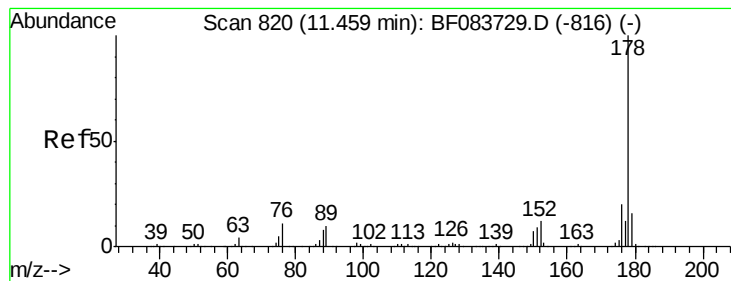
Tot Ion	Ratio	Lower	Upper
166	100		
165	103.6	80.0	120.0
167	14.9	10.6	16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.43 min Scan# 817
 Delta R.T. -0.02 min
 Lab File: BF083841.D
 Acq: 16 Dec 2015 4:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.2	9.4	14.2#
80	9.3	10.6	16.0#





#70

Phenanthrene

Concen: 36.71 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

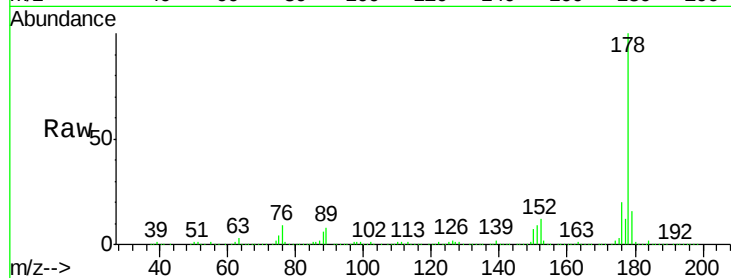
BNA_F

ClientSampleId :

K206-18-19DL

Tot Ion:178 Resp: 467217

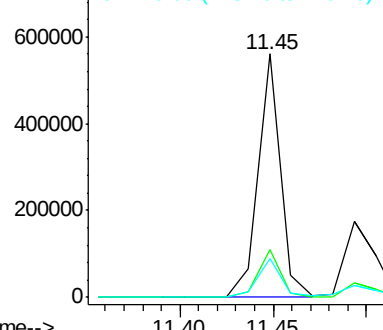
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.7	12.2	18.4



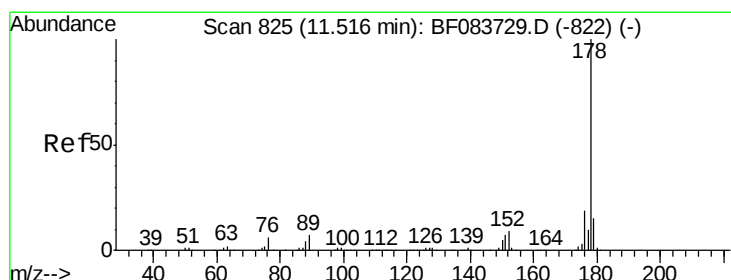
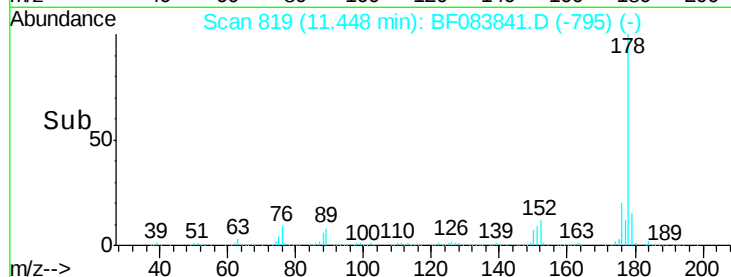
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#71

Anthracene

Concen: 15.47 ng

RT: 11.49 min Scan# 823

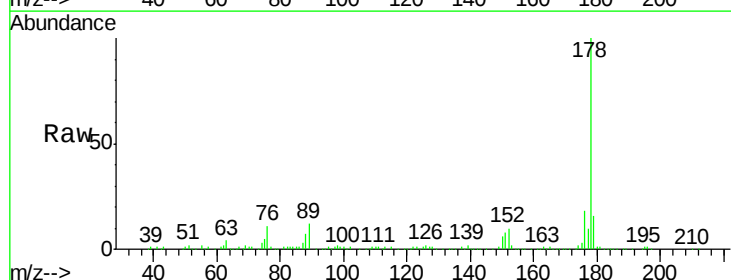
Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Tgt Ion:178 Resp: 204495

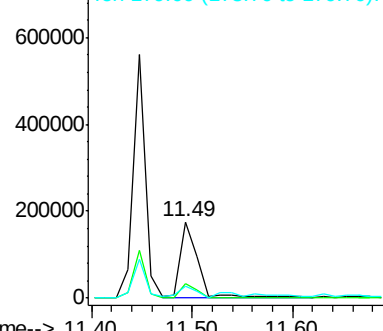
Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.2	22.8
179	16.1	12.6	18.8



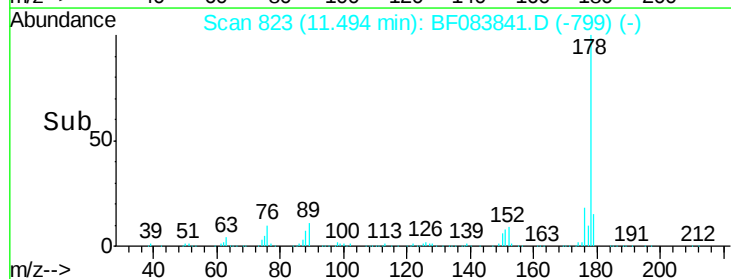
Abundance Ion 178.00 (177.70 to 178.70): E

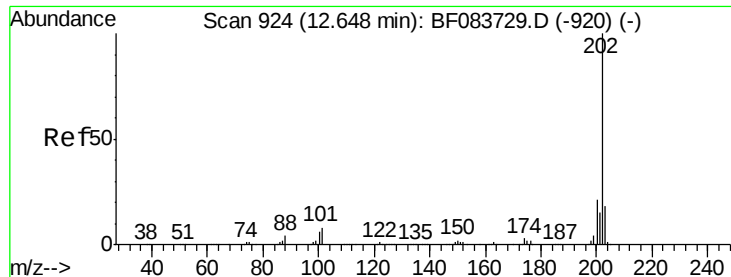
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#74

Fluoranthene

Concen: 53.74 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

BNA_F

ClientSampleId :

K206-18-19DL

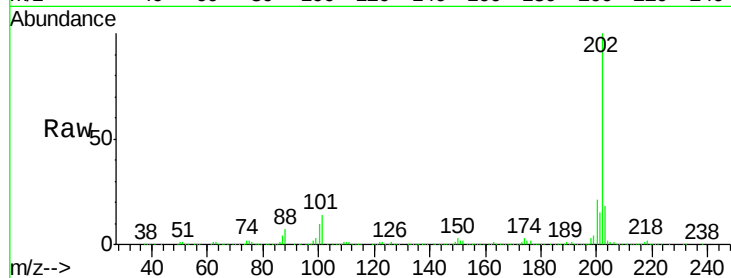
Tot Ion:202 Resp: 706799

Ion Ratio Lower Upper

202 100

101 13.5 0.0 31.5

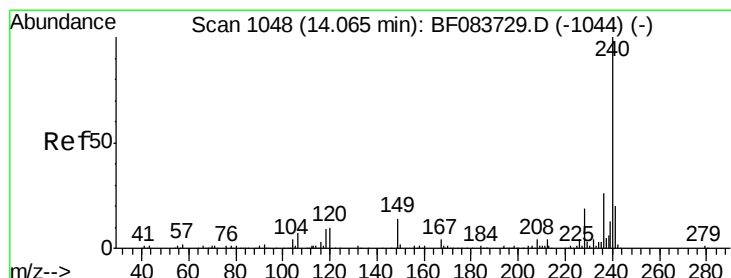
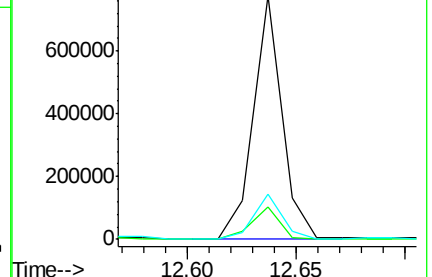
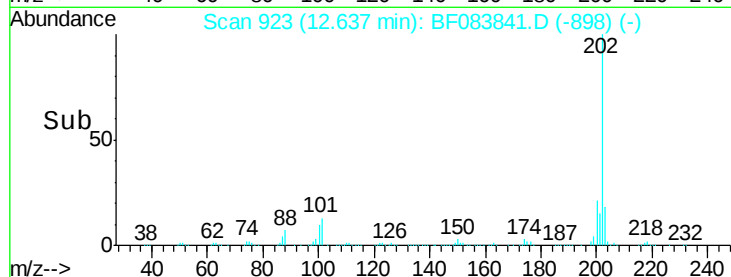
203 18.3 0.0 37.6



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: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

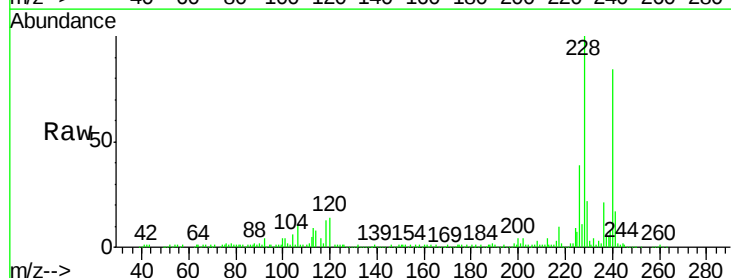
Tgt Ion:240 Resp: 192046

Ion Ratio Lower Upper

240 100

120 16.6 8.1 12.1#

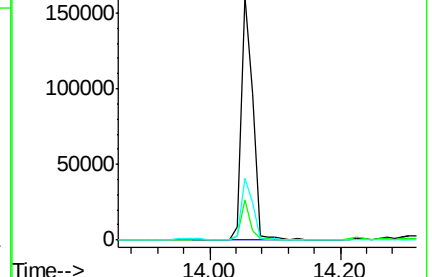
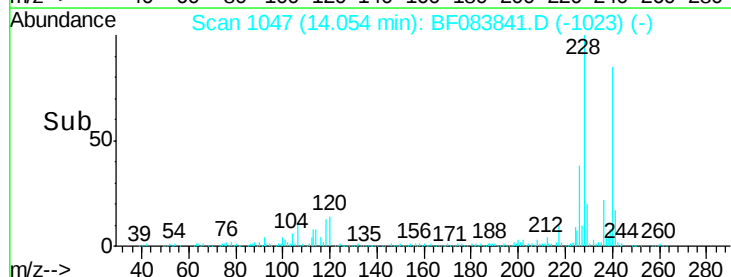
236 25.4 20.8 31.2

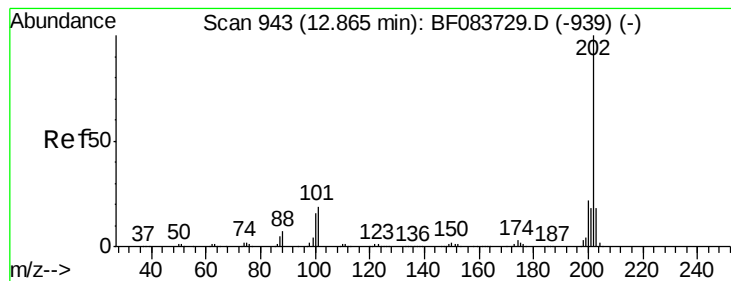


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 51.67 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

BNA_F

ClientSampleId :

K206-18-19DL

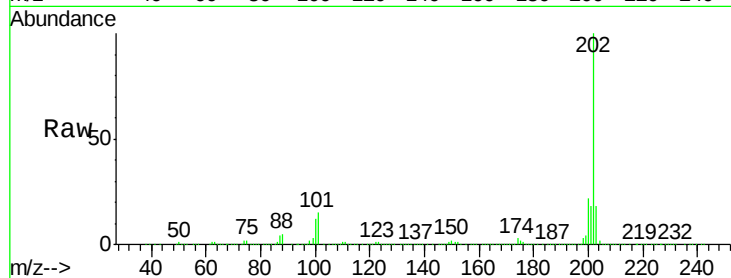
Tot Ion:202 Resp: 784219

Ion Ratio Lower Upper

202 100

200 21.9 16.7 25.1

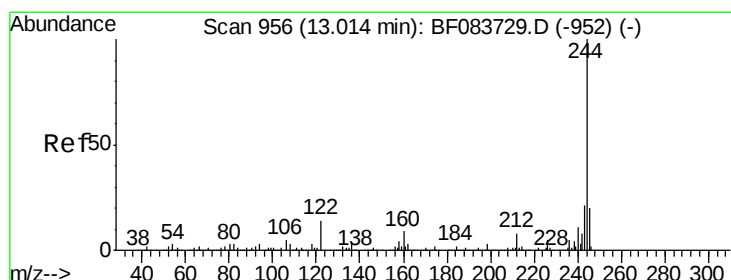
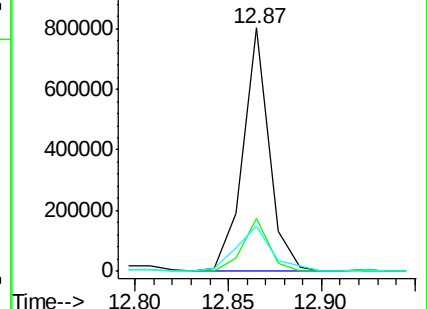
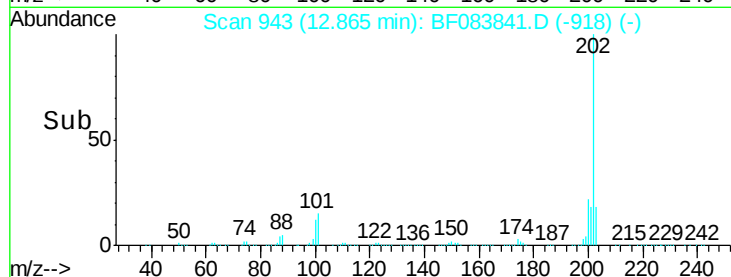
203 18.5 14.3 21.5



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: 37.65 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

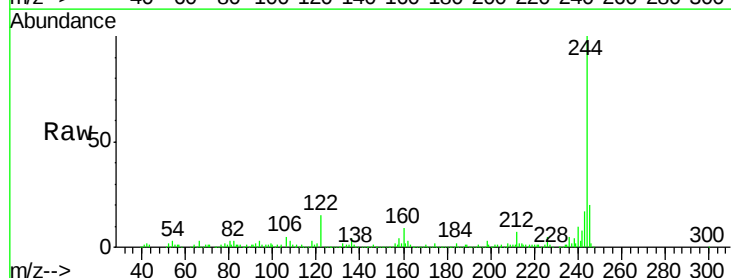
Tgt Ion:244 Resp: 336154

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

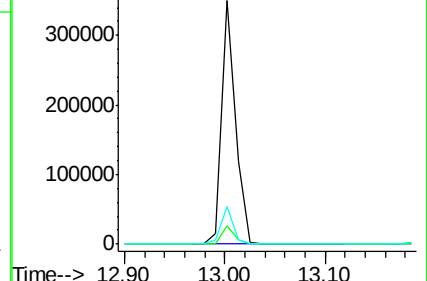
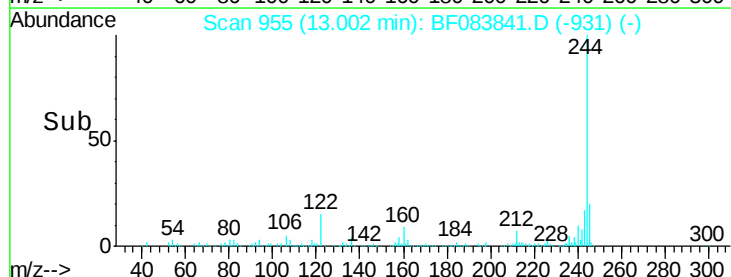
122 15.2 11.0 16.6

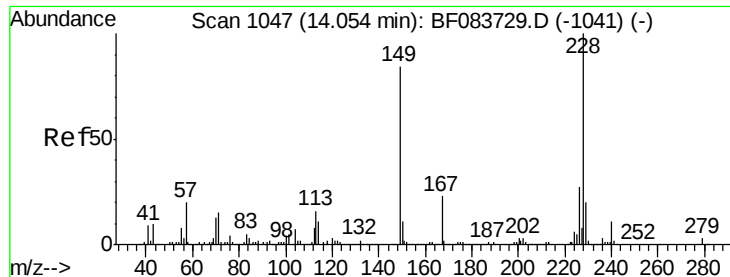


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 30.03 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

BNA_F

ClientSampleId :

K206-18-19DL

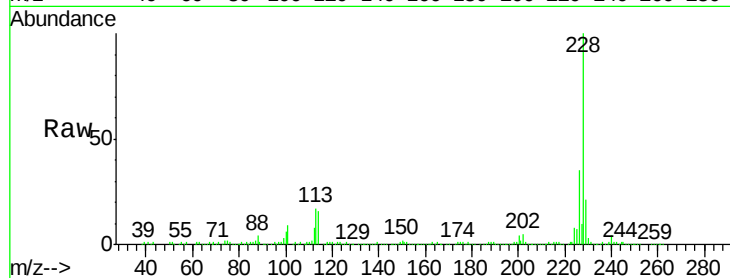
Tot Ion:228 Resp: 327972

Ion Ratio Lower Upper

228 100

226 35.3 22.3 33.5#

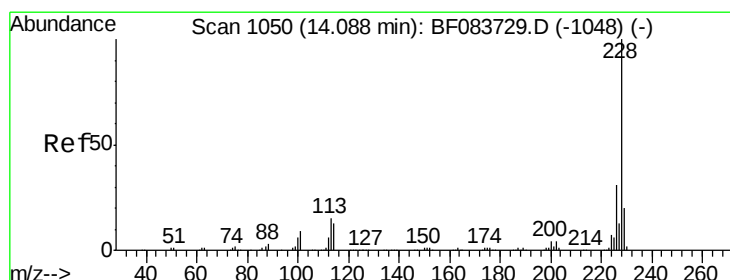
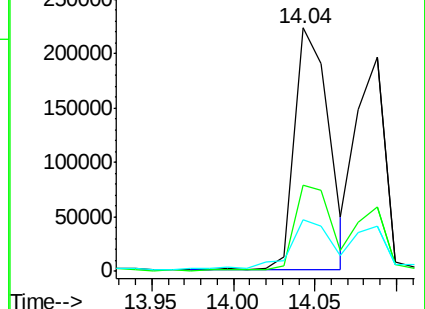
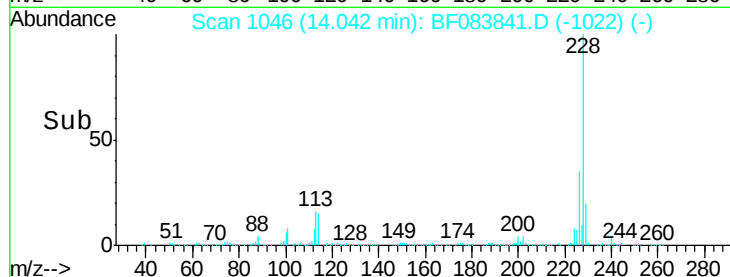
229 21.2 15.7 23.5



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



#82

Chrysene

Concen: 23.28 ng m

RT: 14.09 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

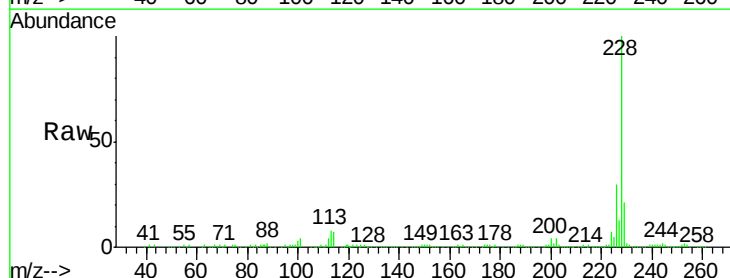
Tgt Ion:228 Resp: 248009

Ion Ratio Lower Upper

228 100

226 30.0 24.7 37.1

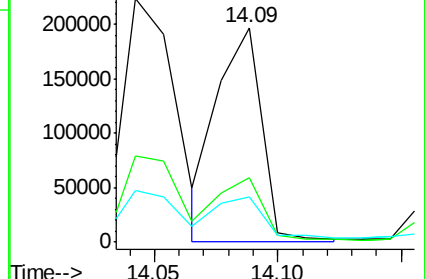
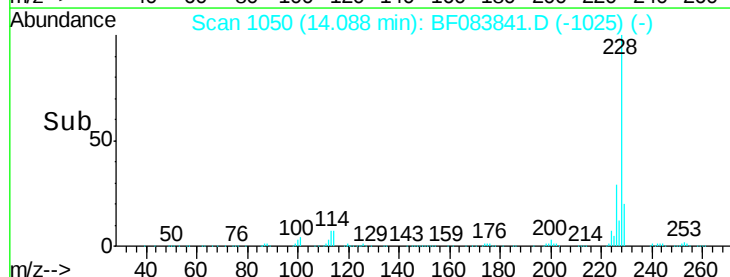
229 21.3 16.3 24.5

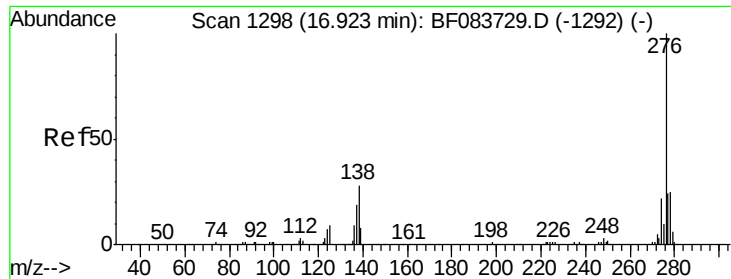


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

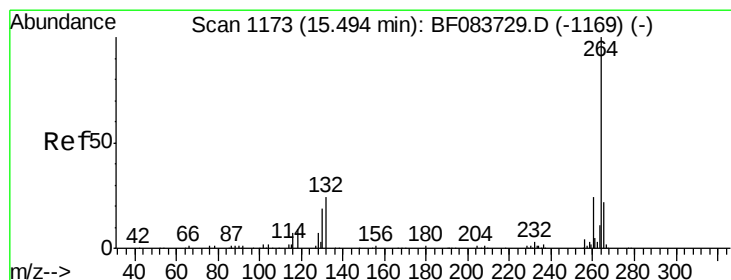
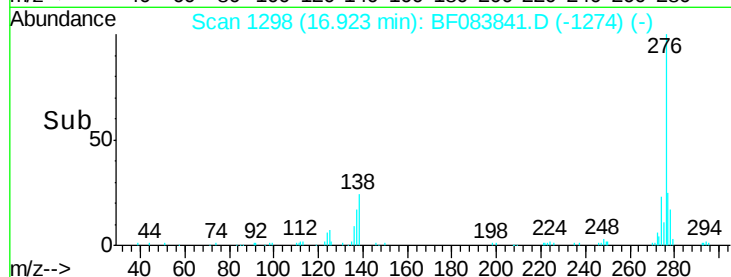
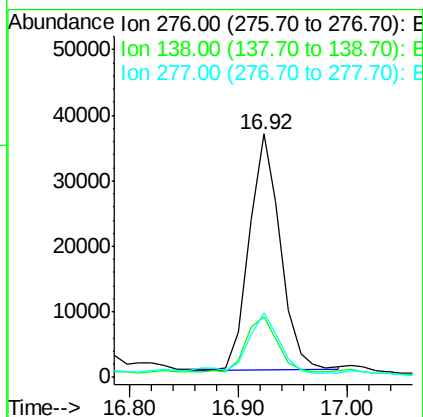
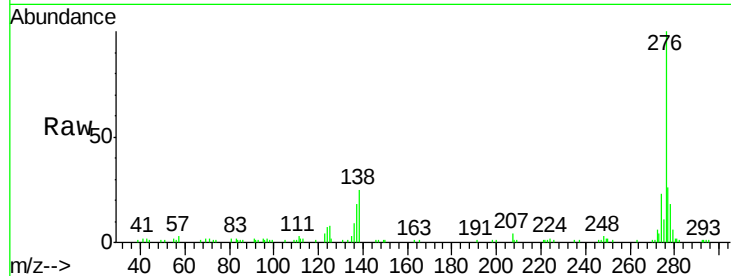




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.86 ng
 RT: 16.92 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF083841.D
 Acq: 16 Dec 2015 4:10

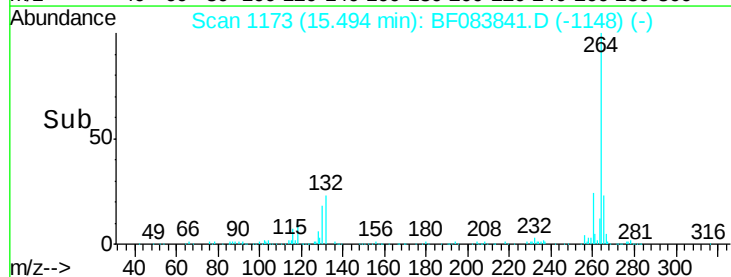
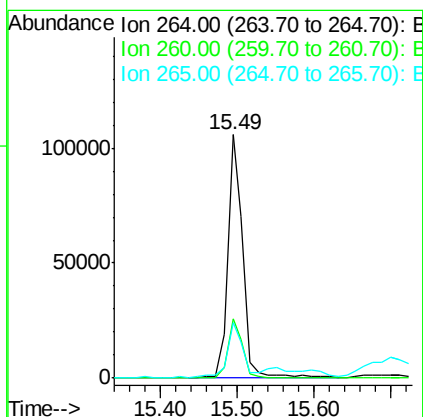
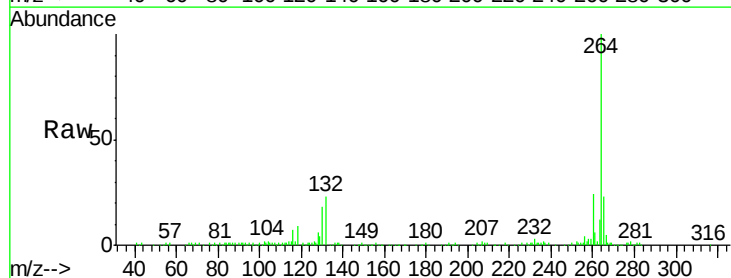
Instrument :
 BNA_F
 ClientSampleId :
 K206-18-19DL

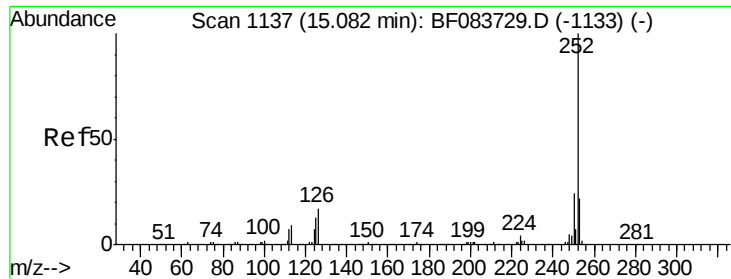
Tot Ion:276 Resp: 71751
 Ion Ratio Lower Upper
 276 100
 138 25.0 0.0 0.0#
 277 27.3 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.49 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: BF083841.D
 Acq: 16 Dec 2015 4:10

Tgt Ion:264 Resp: 147175
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.4 29.0
 265 23.0 17.8 26.6





#87

Benzo(b)fluoranthene

Concen: 21.37 ng m

RT: 15.08 min Scan# 1137

Delta R.T. -0.01 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

BNA_F

ClientSampleId :

K206-18-19DL

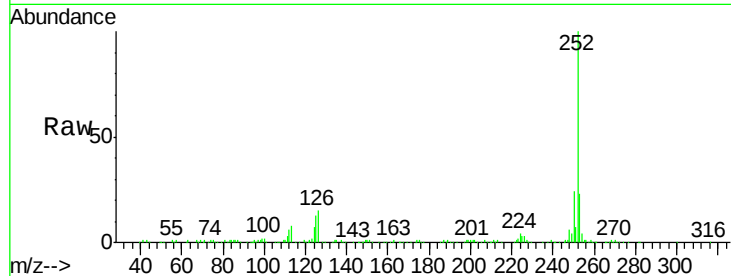
Tot Ion:252 Resp: 200607

Ion Ratio Lower Upper

252 100

253 22.5 18.2 27.4

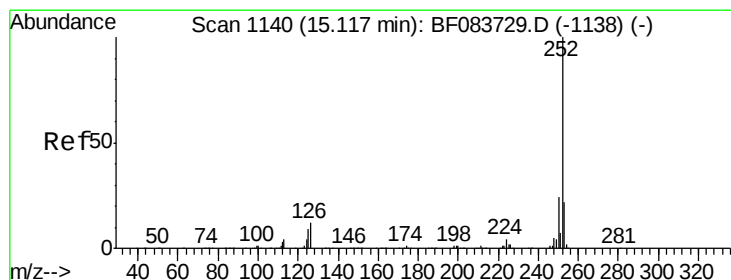
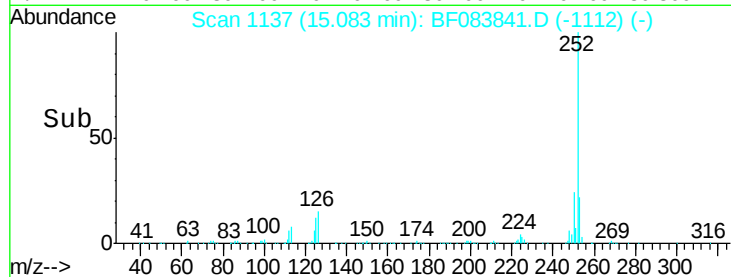
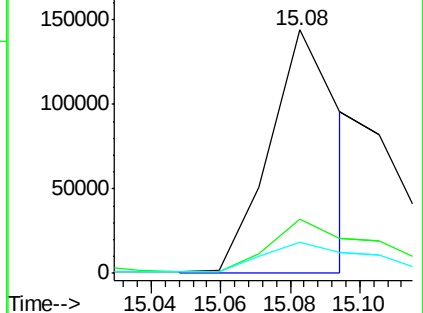
125 13.0 8.2 12.4#



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: 9.95 ng m

RT: 15.09 min Scan# 1138

Delta R.T. -0.03 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

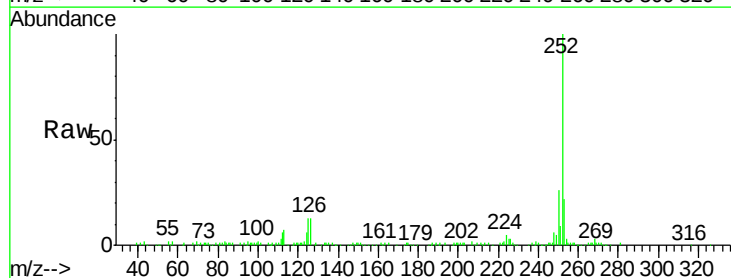
Tgt Ion:252 Resp: 84648

Ion Ratio Lower Upper

252 100

253 22.0 18.6 27.8

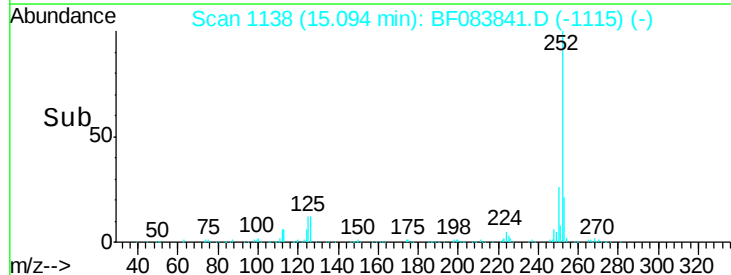
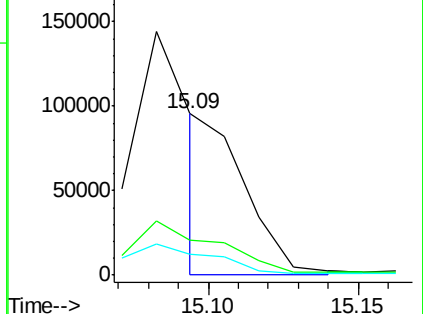
125 13.1 11.5 17.3

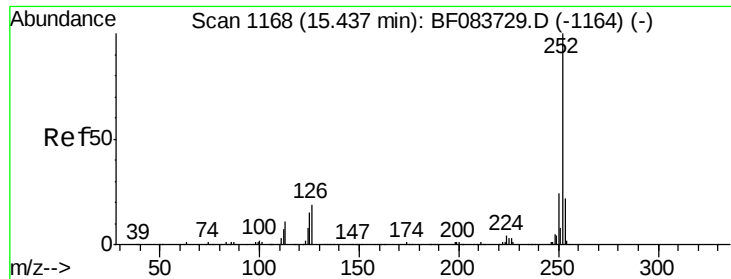


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 21.36 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

Instrument :

BNA_F

ClientSampleId :

K206-18-19DL

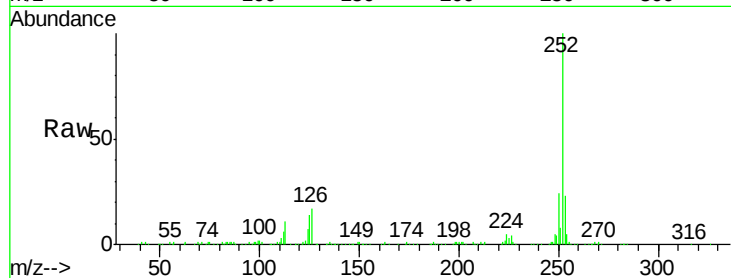
Tot Ion:252 Resp: 179004

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

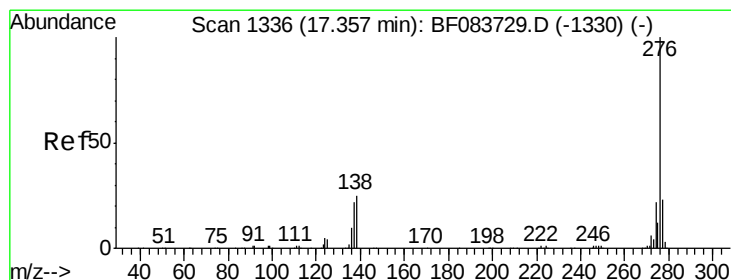
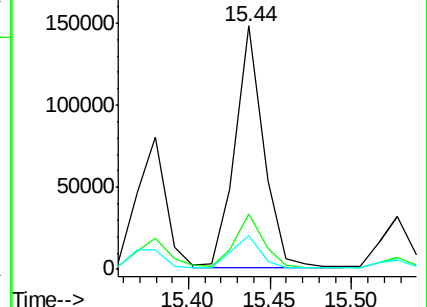
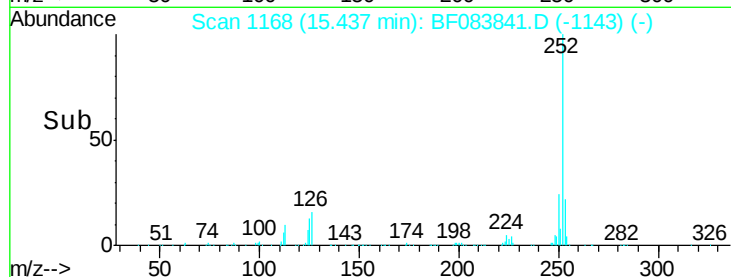
125 13.6 11.0 16.6



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(g,h,i)perylene

Concen: 8.69 ng

RT: 17.36 min Scan# 1336

Delta R.T. -0.02 min

Lab File: BF083841.D

Acq: 16 Dec 2015 4:10

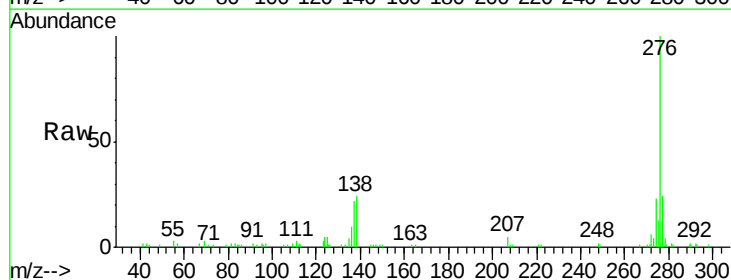
Tgt Ion:276 Resp: 74408

Ion Ratio Lower Upper

276 100

277 23.8 19.2 28.8

138 24.3 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

