

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112515\
 Data File : BF083285.D
 Acq On : 25 Nov 2015 20:51
 Operator : UM/IZ
 Sample : G4567-01 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 STOCKPILE-COMPOSITE1

Quant Time: Nov 26 01:16:10 2015
 Quant Method : Z:\HPCHEM1\BNA_F\Methods\8270-BF112115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Nov 22 09:22:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.58	152	162302	20.00	ng	-0.08
21) Naphthalene-d8	7.87	136	613943	20.00	ng	-0.08
38) Acenaphthene-d10	9.62	164	301625	20.00	ng	-0.08
63) Phenanthrene-d10	11.10	188	536022	20.00	ng	-0.08
75) Chrysene-d12	13.73	240	431079	20.00	ng	-0.08
86) Perylene-d12	15.07	264	414616	20.00	ng	-0.09

System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	265524	24.73	ng	-0.10
7) Phenol-d6	6.25	99	376024	27.07	ng	-0.09
23) Nitrobenzene-d5	7.15	82	245507	18.27	ng	-0.08
41) 2,4,6-Tribromophenol	10.41	330	72908	23.63	ng	-0.08
44) 2-Fluorobiphenyl	8.96	172	343660	15.89	ng	-0.07
78) Terphenyl-d14	12.69	244	284803	15.56	ng	-0.08

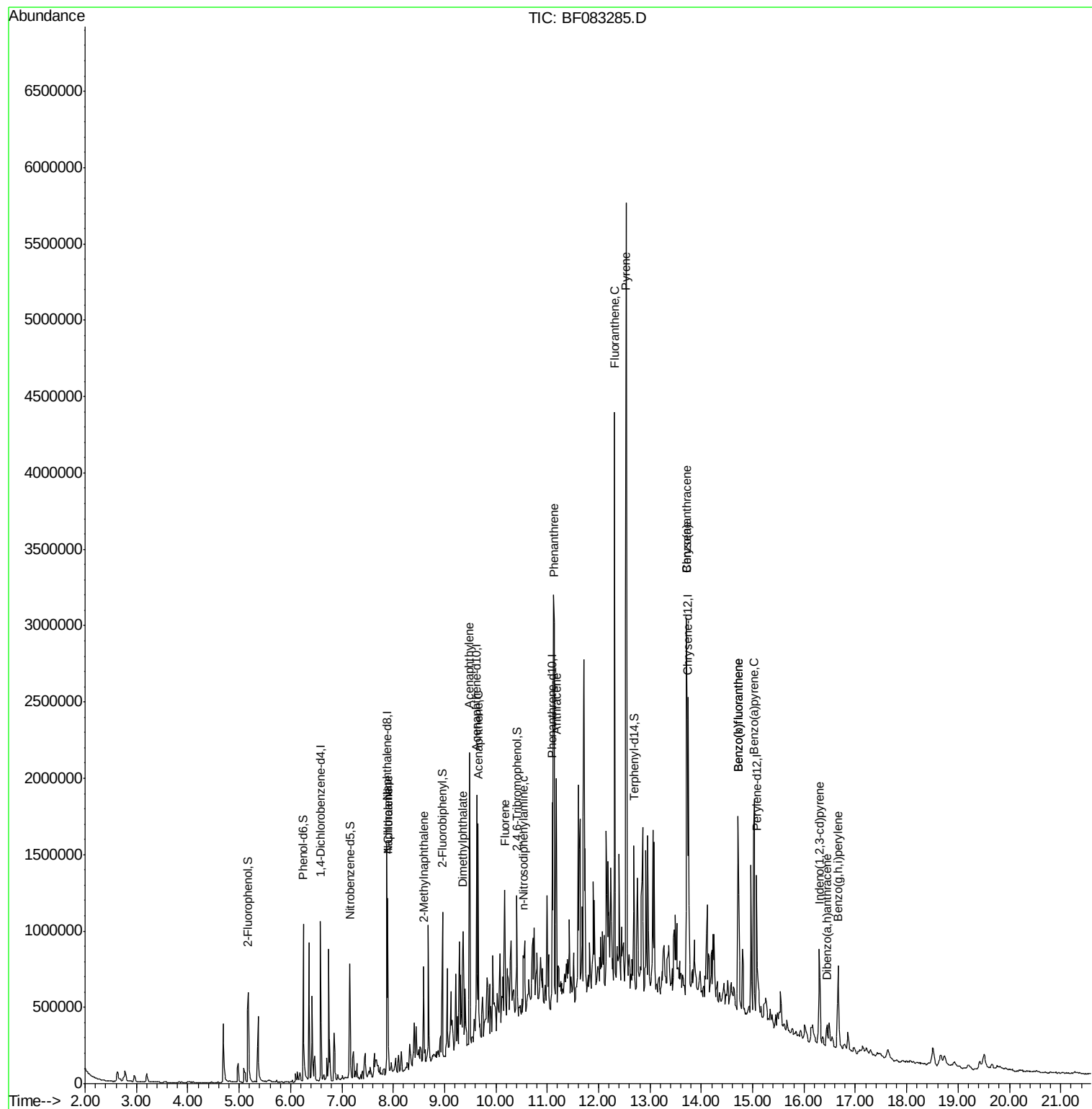
Target Compounds				Qvalue		
31) Naphthalene	7.90	128	466771	14.09	ng	99
33) 4-Chloroaniline	7.90	127	62467	4.86	ng	# 26
37) 2-Methylnaphthalene	8.59	142	173455	8.07	ng	95
48) Acenaphthylene	9.48	152	698887	22.36	ng	99
49) Dimethylphthalate	9.36	163	91746	3.95	ng	99
51) Acenaphthene	9.66	154	289941	15.25	ng	99
57) Fluorene	10.17	166	342401	15.41	ng	96
65) n-Nitrosodiphenylamine	10.54	169	37318	2.05	ng	90
70) Phenanthrene	11.13	178	1560756	50.54	ng	100
71) Anthracene	11.18	178	645122	20.47	ng	99
74) Fluoranthene	12.31	202	1410117	44.62	ng	98
77) Pyrene	12.54	202	2277503	77.33	ng	97
80) Benzo(a)anthracene	13.71	228	964669	36.18	ng	# 82
82) Chrysene	13.71	228	964669	39.02	ng	# 87
85) Indeno(1,2,3-cd)pyrene	16.30	276	382730	17.02	ng	98
87) Benzo(b)fluoranthene	14.72	252	893062	31.52	ng	# 96
88) Benzo(k)fluoranthene	14.72	252	893062	42.31	ng	# 97
89) Benzo(a)pyrene	15.03	252	732423	31.31	ng	# 96
90) Dibenzo(a,h)anthracene	16.45	278	102323	4.82	ng	94
91) Benzo(g,h,i)perylene	16.66	276	410431	19.79	ng	# 92

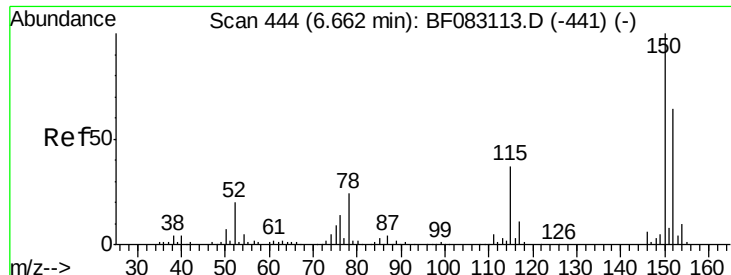
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 26 01:16:10 2015
Quant Method : Z:\HPCHEM1\BNA_F\Methods\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Nov 22 09:22:46 2015
Response via : Initial Calibration

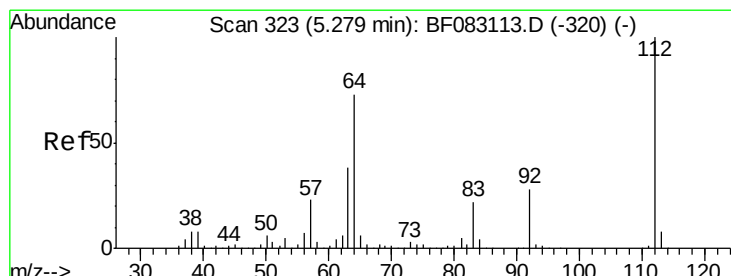
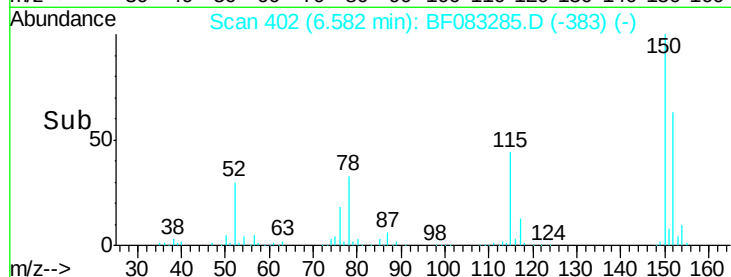
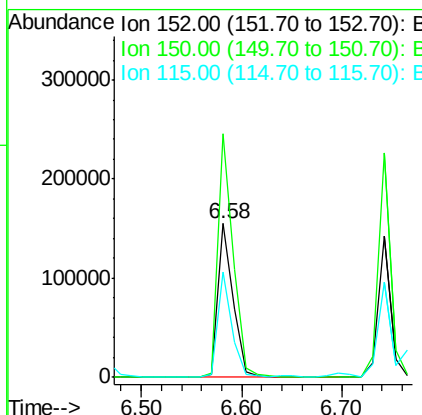
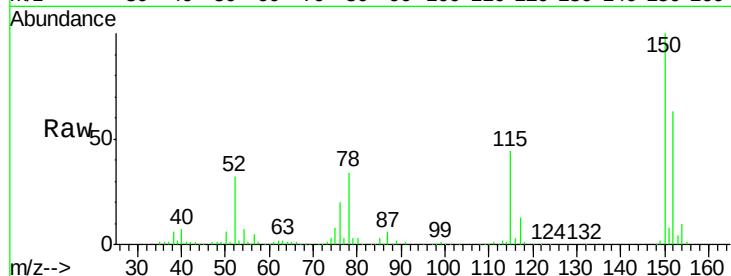




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.58 min Scan# 402
 Delta R.T. -0.08 min
 Lab File: BF083285.D
 Acq: 25 Nov 2015 20:51

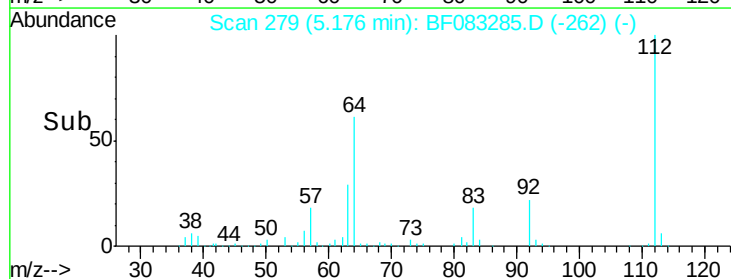
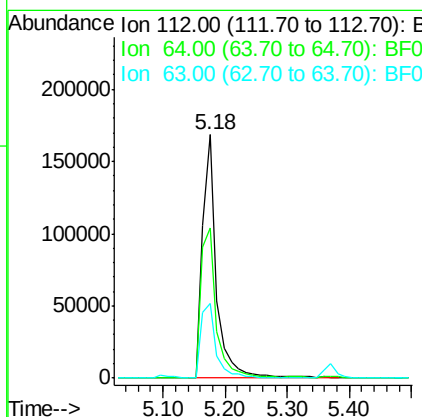
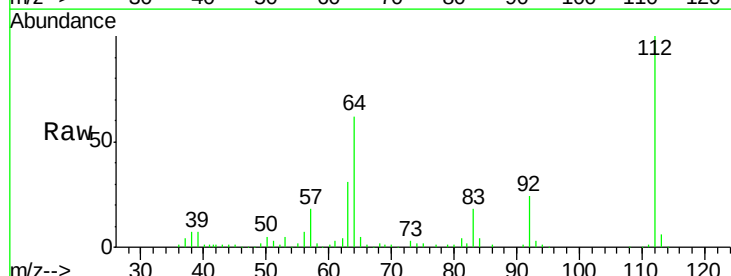
Instrument :
 BNA_F
 ClientSampleId :
 STOCKPILE-COMPOSITE1

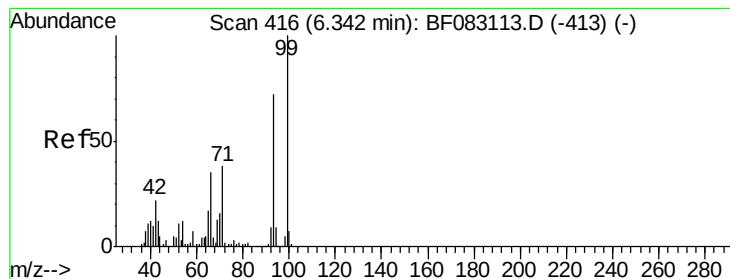
Tgt Ion:152 Resp: 162302
 Ion Ratio Lower Upper
 152 100
 150 158.7 125.8 188.8
 115 69.1 46.9 70.3



#5
 2-Fluorophenol
 Concen: 24.73 ng
 RT: 5.18 min Scan# 279
 Delta R.T. -0.10 min
 Lab File: BF083285.D
 Acq: 25 Nov 2015 20:51

Tgt Ion:112 Resp: 265524
 Ion Ratio Lower Upper
 112 100
 64 61.7 58.4 87.6
 63 30.5 30.0 45.0





#7

Phenol-d6

Concen: 27.07 ng

RT: 6.25 min Scan# 373

Delta R.T. -0.09 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

Instrument :

BNA_F

ClientSampleId :

STOCKPILE-COMPOSITE1

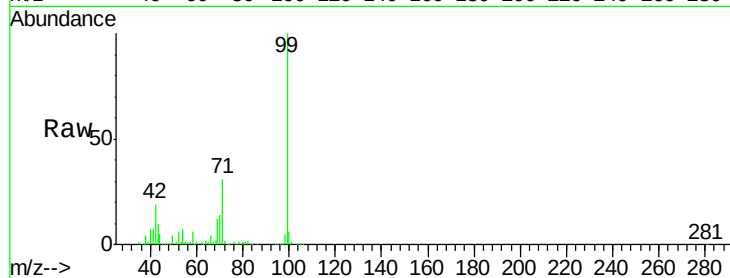
Tgt Ion: 99 Resp: 376024

Ion Ratio Lower Upper

99 100

42 18.9 17.7 26.5

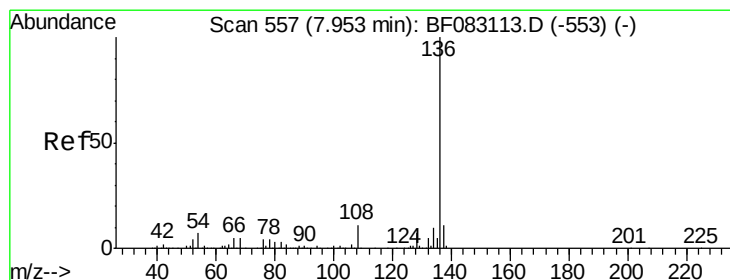
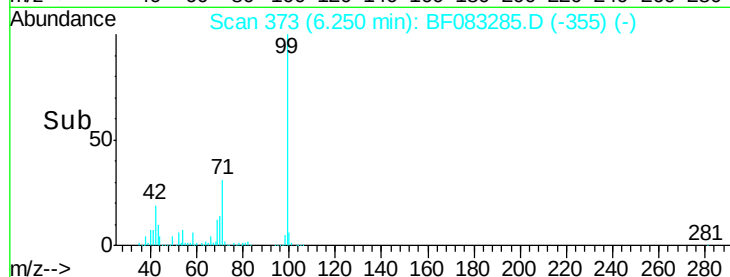
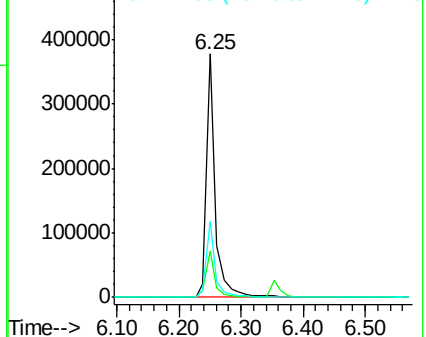
71 31.0 30.2 45.4



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: 7.87 min Scan# 515

Delta R.T. -0.08 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

Tgt Ion: 136 Resp: 613943

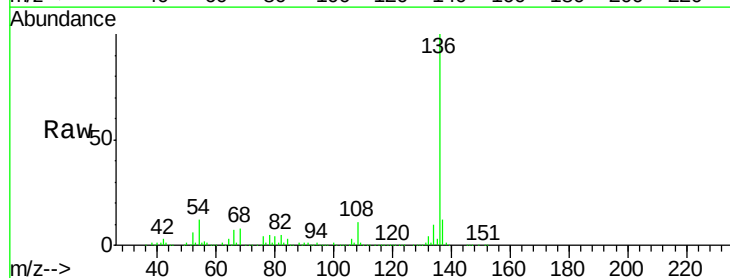
Ion Ratio Lower Upper

136 100

137 11.7 8.7 13.1

54 12.0 5.8 8.6#

68 8.0 3.8 5.8#

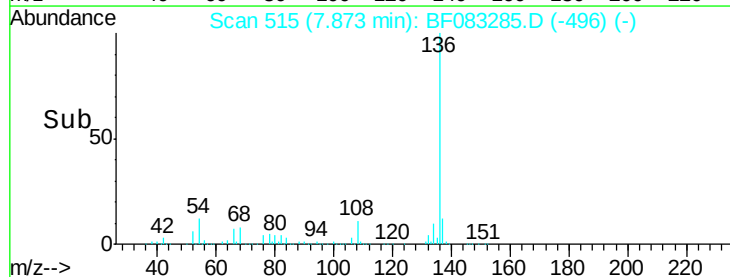
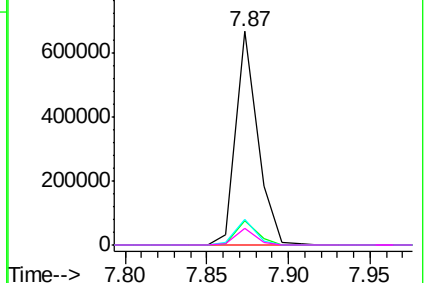


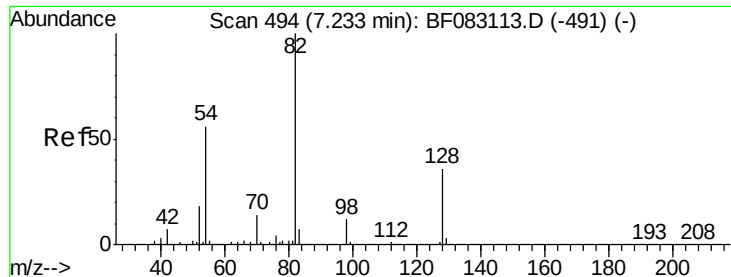
Abundance Ion 136.00 (135.70 to 136.70): E

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

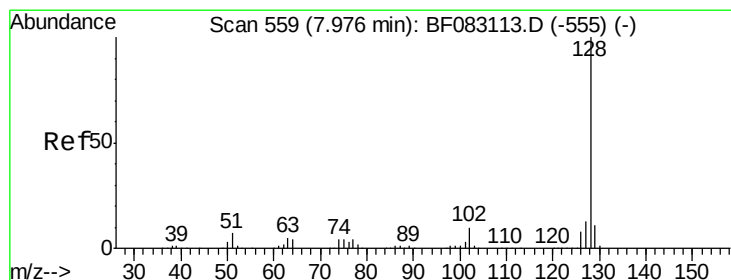
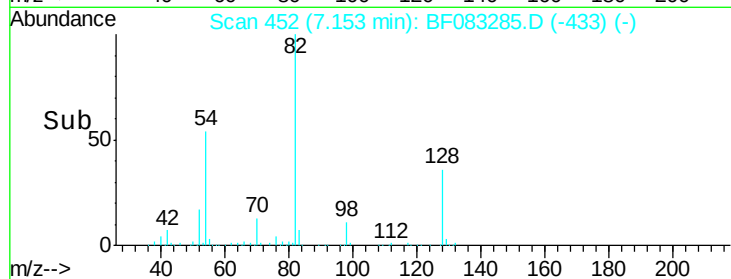
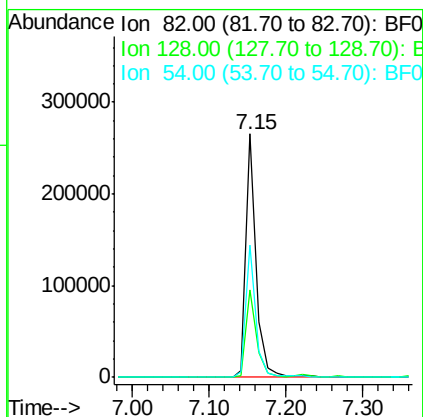
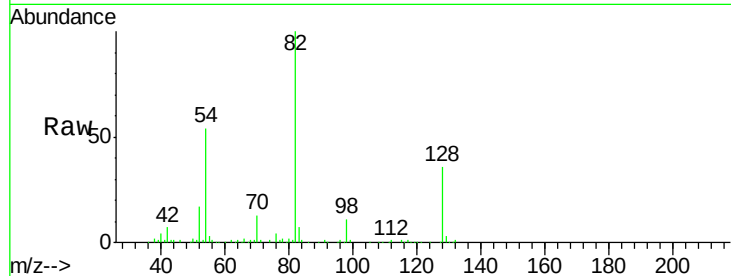




#23
Nitrobenzene-d5
Concen: 18.27 ng
RT: 7.15 min Scan# 452
Delta R.T. -0.08 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

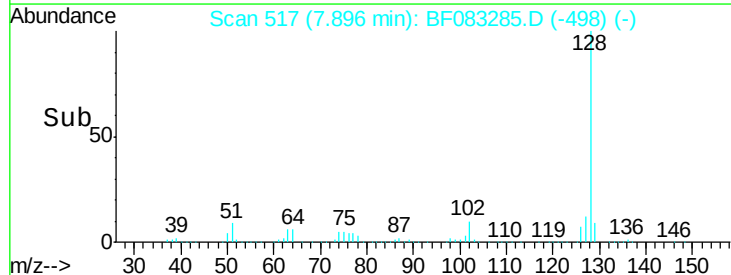
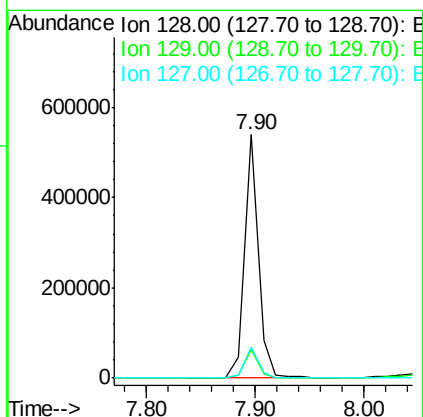
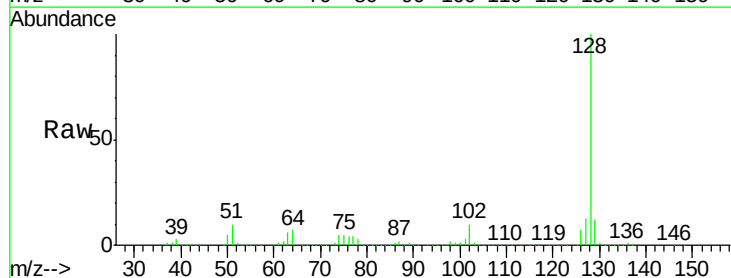
Instrument :
BNA_F
ClientSampleId :
STOCKPILE-COMPOSITE1

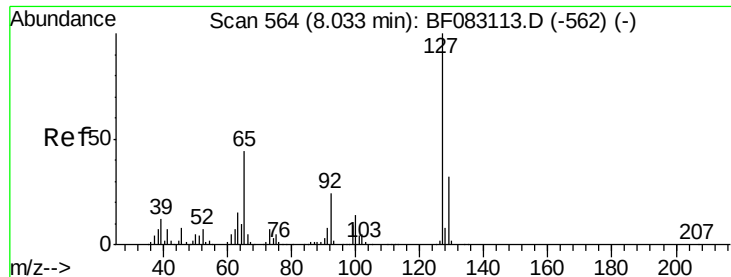
Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.8	28.5	42.7
54	54.4	44.6	67.0



#31
Naphthalene
Concen: 14.09 ng
RT: 7.90 min Scan# 517
Delta R.T. -0.08 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.0	13.4
127	12.9	10.6	15.8

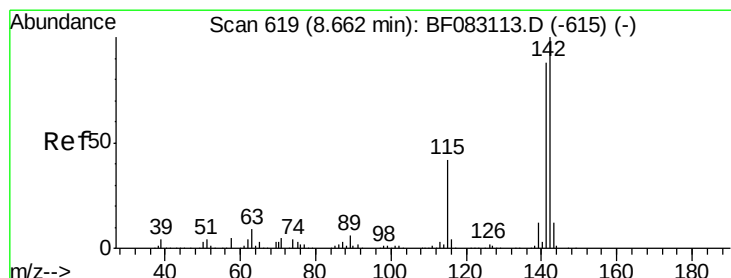
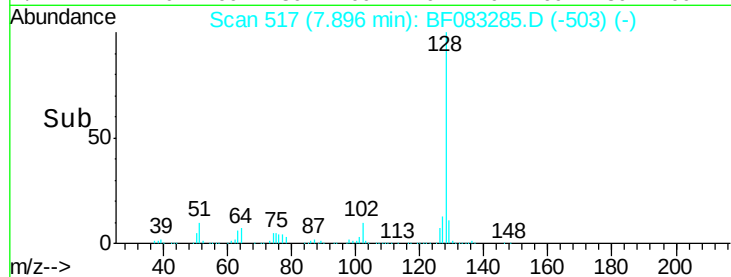
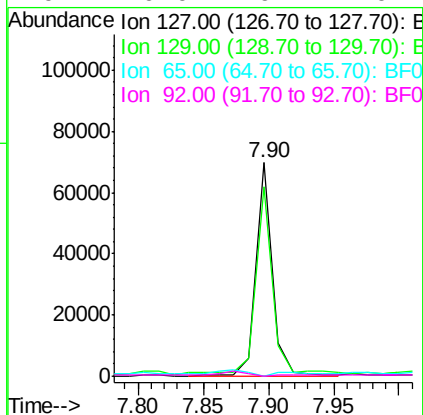
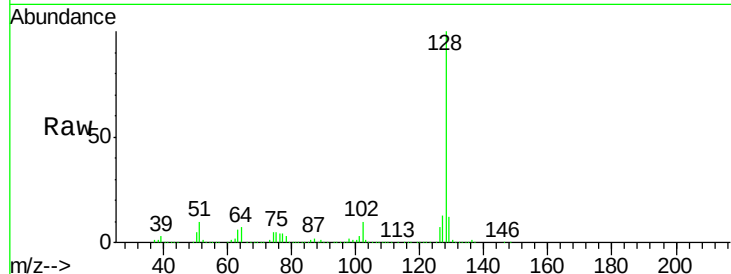




#33
 4-Chloroaniline
 Concen: 4.86 ng
 RT: 7.90 min Scan# 517
 Delta R.T. -0.14 min
 Lab File: BF083285.D
 Acq: 25 Nov 2015 20:51

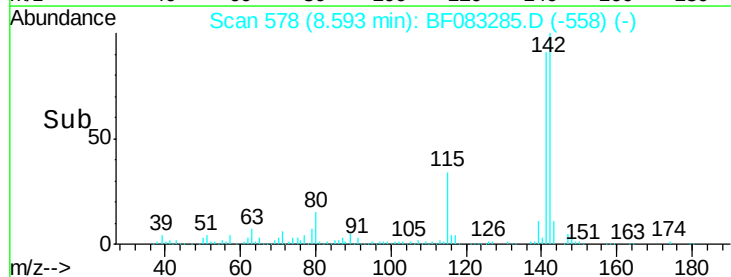
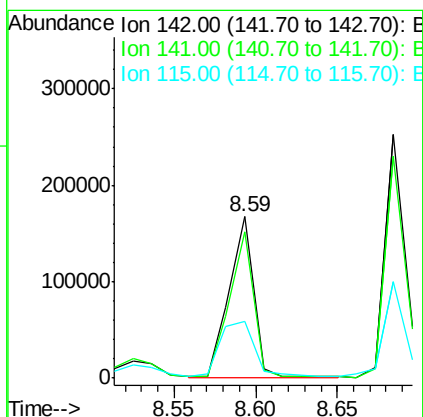
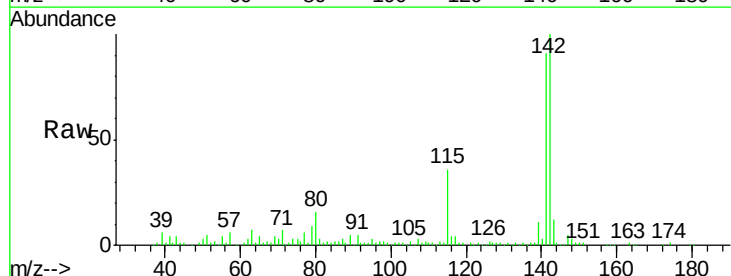
Instrument :
 BNA_F
 ClientSampleId :
 STOCKPILE-COMPOSITE1

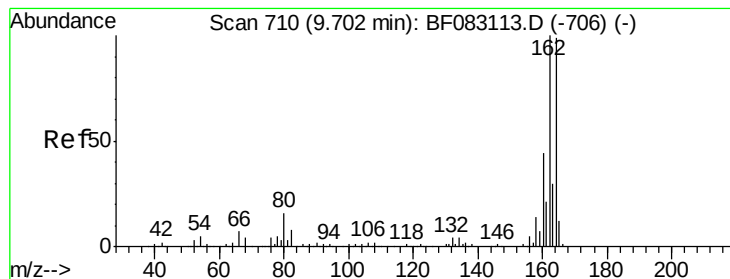
Tgt Ion:	127	Resp:	62467
Ion	Ratio	Lower	Upper
127	100		
129	89.0	25.7	38.5#
65	0.0	35.5	53.3#
92	0.0	19.4	29.2#



#37
 2-Methylnaphthalene
 Concen: 8.07 ng
 RT: 8.59 min Scan# 578
 Delta R.T. -0.07 min
 Lab File: BF083285.D
 Acq: 25 Nov 2015 20:51

Tgt Ion:	142	Resp:	173455
Ion	Ratio	Lower	Upper
142	100		
141	90.9	70.3	105.5
115	35.5	33.4	50.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.62 min Scan# 668

Delta R.T. -0.08 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

Instrument :

BNA_F

ClientSampleId :

STOCKPILE-COMPOSITE1

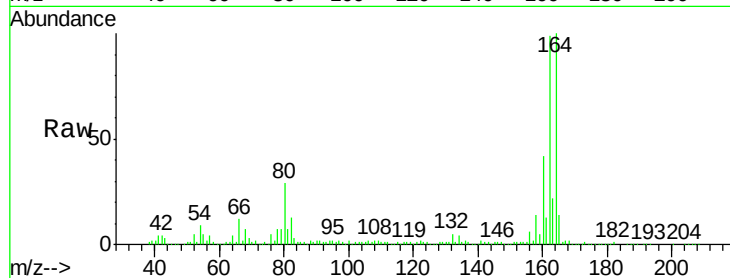
Tgt Ion:164 Resp: 301625

Ion Ratio Lower Upper

164 100

162 98.8 81.2 121.8

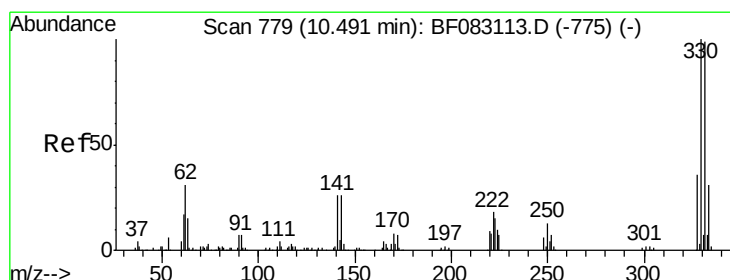
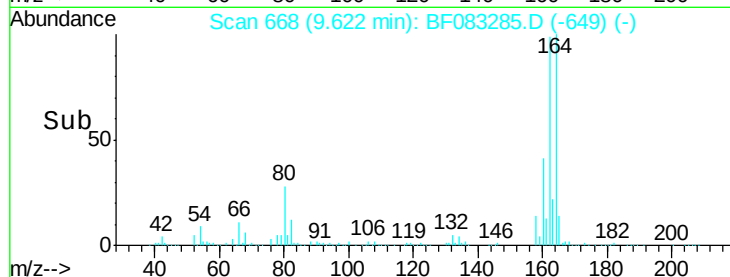
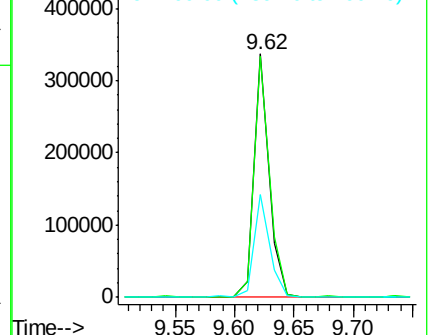
160 42.2 35.6 53.4



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: 23.63 ng

RT: 10.41 min Scan# 737

Delta R.T. -0.08 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

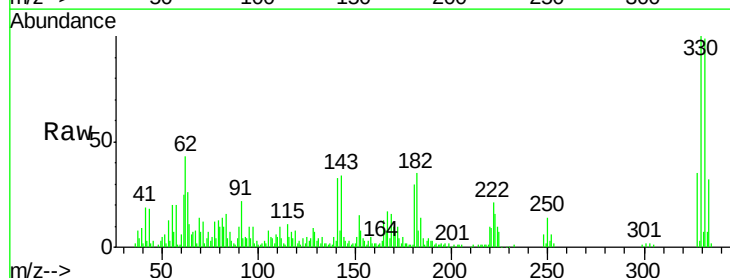
Tgt Ion:330 Resp: 72908

Ion Ratio Lower Upper

330 100

332 97.1 77.7 116.5

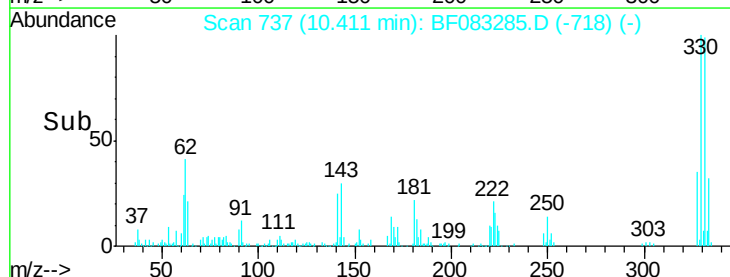
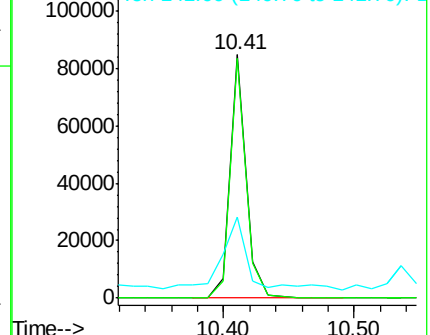
141 44.2 29.7 44.5

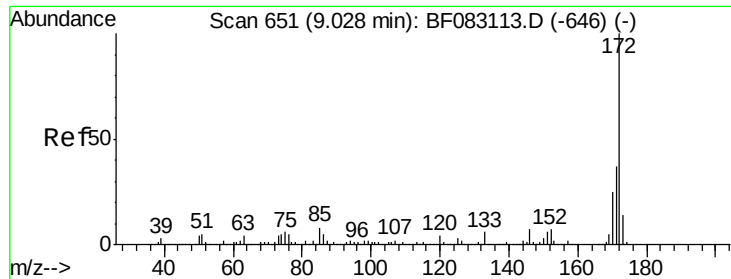


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 15.89 ng

RT: 8.96 min Scan# 610

Delta R.T. -0.07 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

Instrument :

BNA_F

ClientSampleId :

STOCKPILE-COMPOSITE1

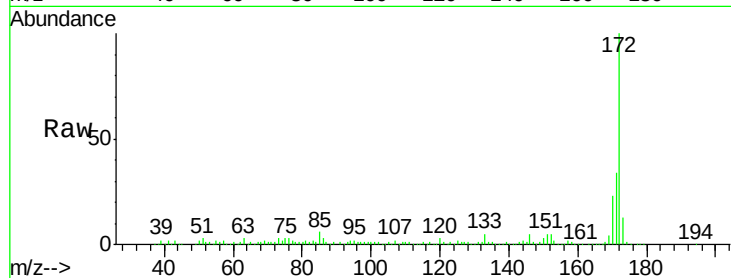
Tgt Ion:172 Resp: 343660

Ion Ratio Lower Upper

172 100

171 34.1 29.5 44.3

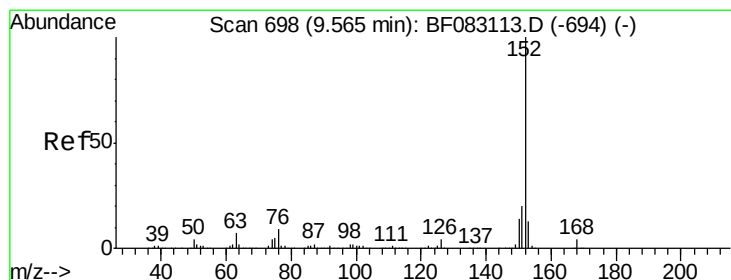
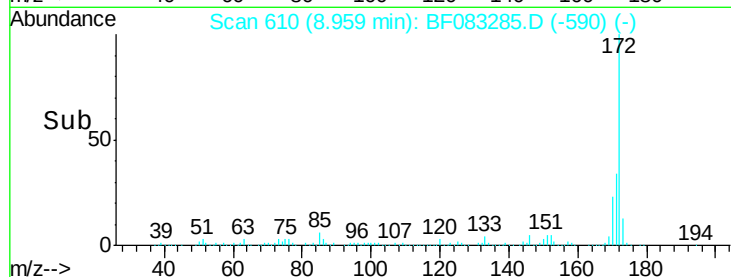
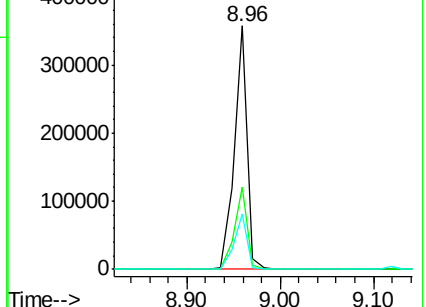
170 22.6 19.9 29.9



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: 22.36 ng

RT: 9.48 min Scan# 656

Delta R.T. -0.08 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

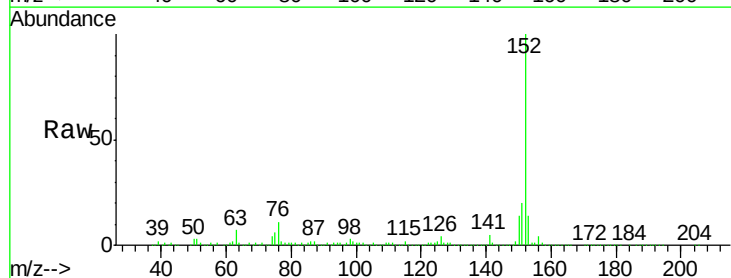
Tgt Ion:152 Resp: 698887

Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

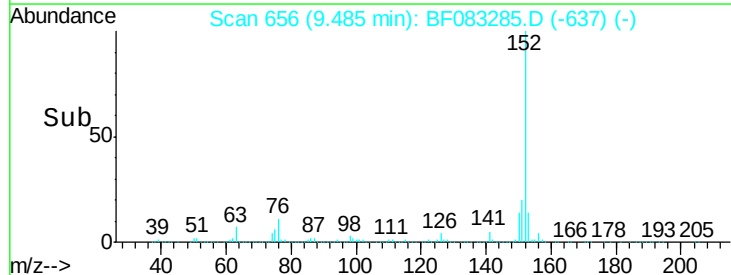
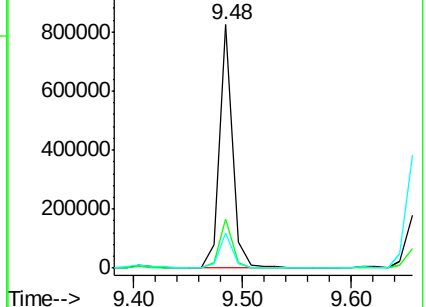
153 14.2 10.8 16.2

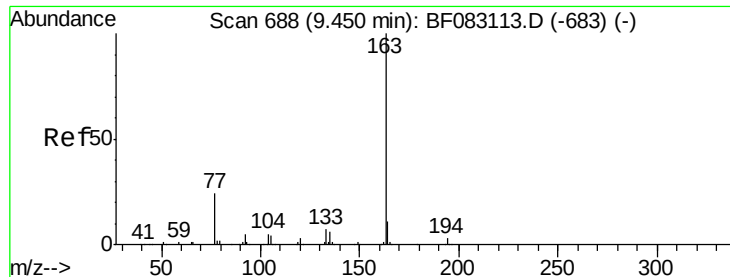


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

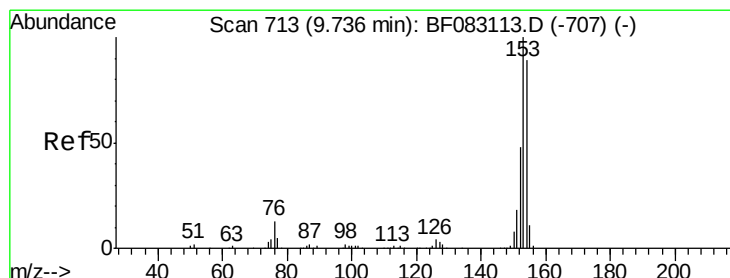
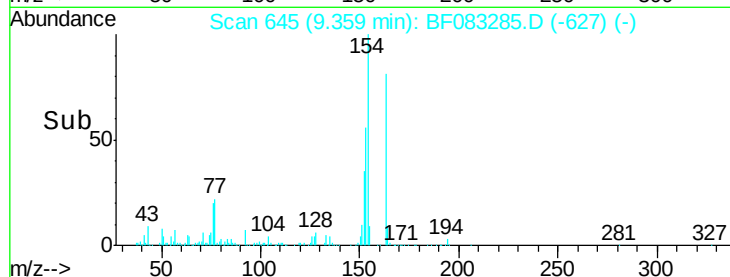
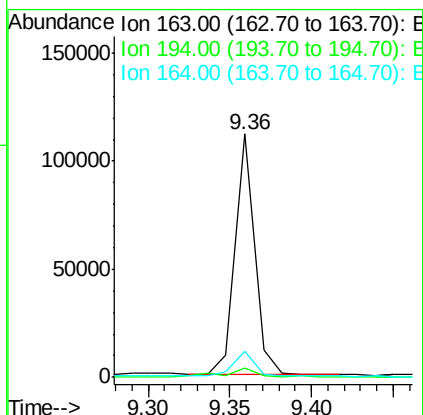
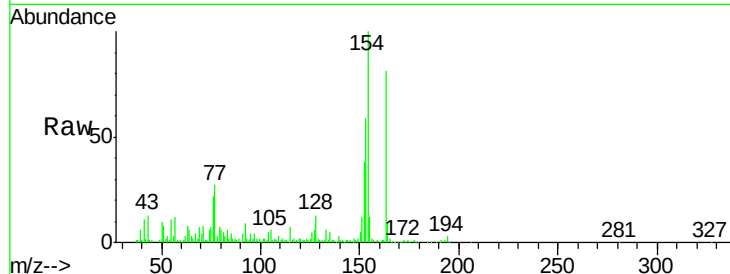




#49
Dimethylphthalate
Concen: 3.95 ng
RT: 9.36 min Scan# 645
Delta R.T. -0.09 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

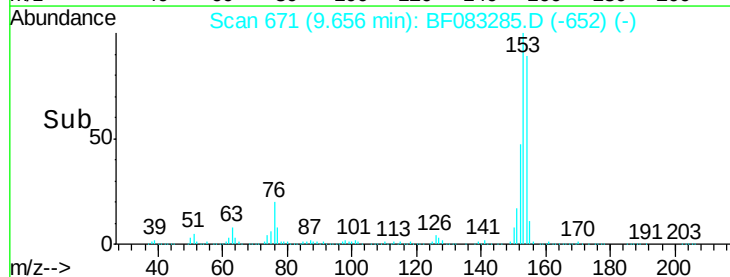
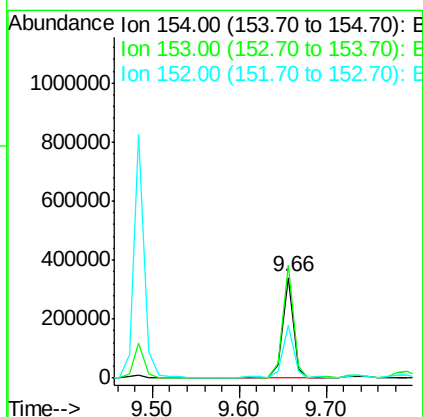
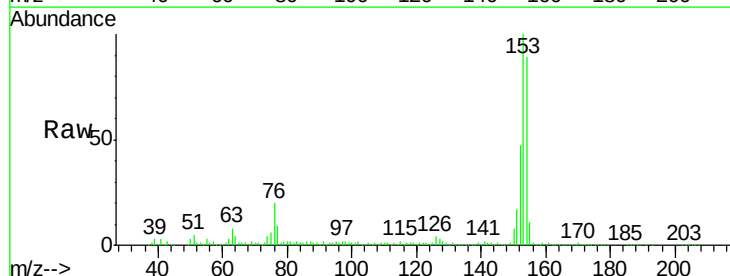
Instrument :
BNA_F
ClientSampleId :
STOCKPILE-COMPOSITE1

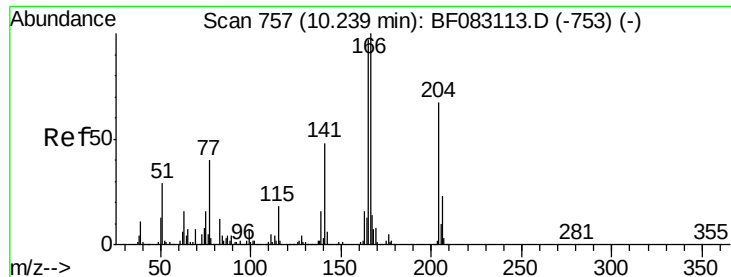
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.6	4.0
164	10.9	8.6	12.8



#51
Acenaphthene
Concen: 15.25 ng
RT: 9.66 min Scan# 671
Delta R.T. -0.08 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.0	89.6	134.4
152	53.0	43.3	64.9

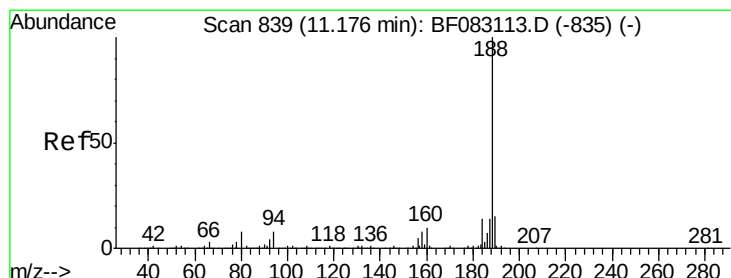
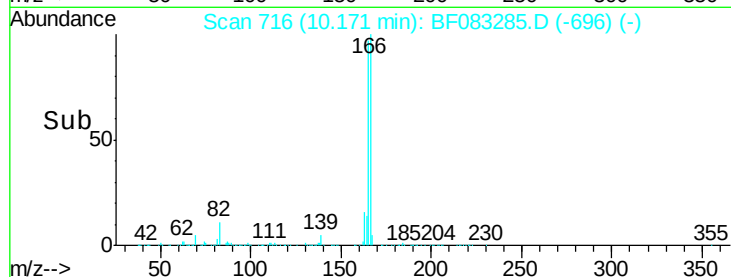
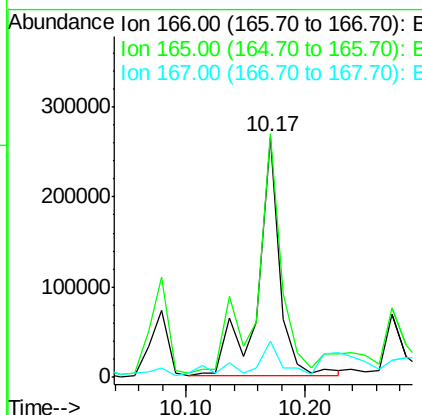
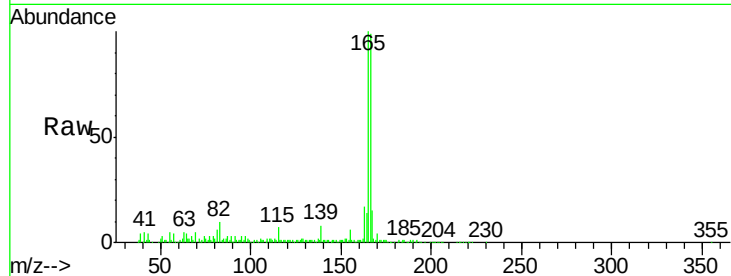




#57
Fluorene
 Concen: 15.41 ng
 RT: 10.17 min Scan# 716
 Delta R.T. -0.07 min
 Lab File: BF083285.D
 Acq: 25 Nov 2015 20:51

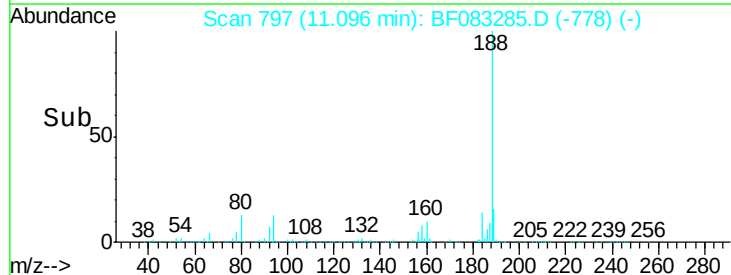
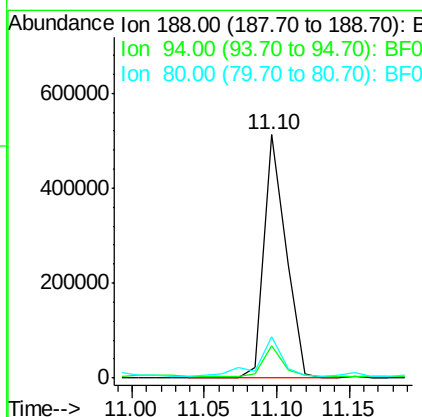
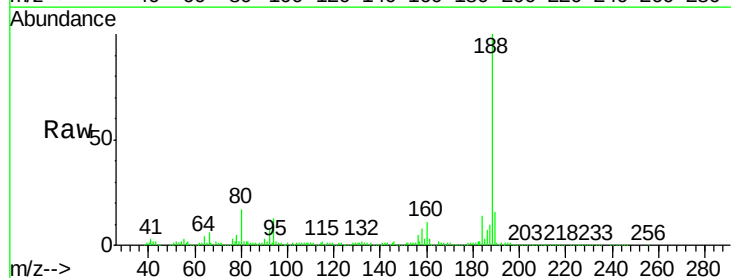
Instrument :
 BNA_F
 ClientSampleId :
 STOCKPILE-COMPOSITE1

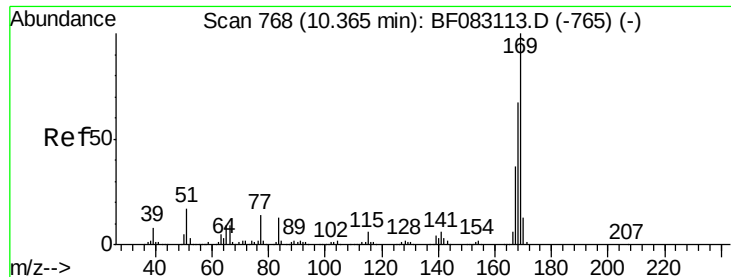
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.5	78.0	117.0
167	15.3	11.3	16.9



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 797
 Delta R.T. -0.08 min
 Lab File: BF083285.D
 Acq: 25 Nov 2015 20:51

Tgt Ion	Ratio	Lower	Upper
188	100		
94	13.2	6.0	9.0#
80	17.0	6.7	10.1#

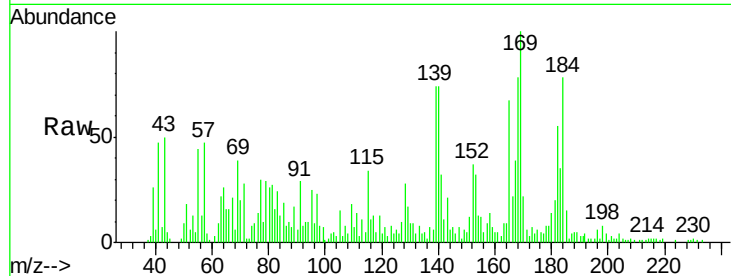




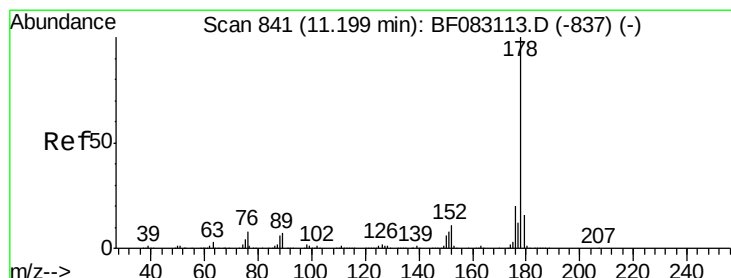
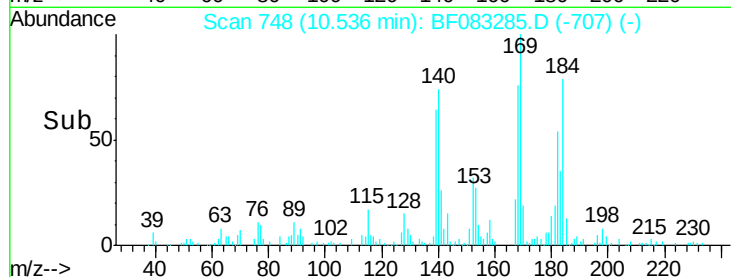
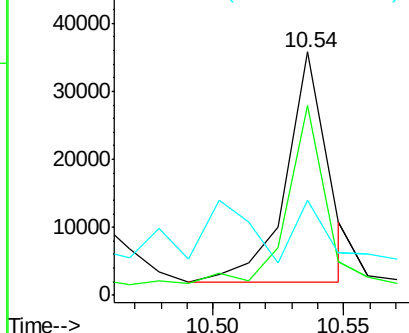
#65
n-Nitrosodiphenylamine
Concen: 2.05 ng
RT: 10.54 min Scan# 748
Delta R.T. 0.17 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

Instrument :
BNA_F
ClientSampleId :
STOCKPILE-COMPOSITE1

Tgt Ion:169 Resp: 37318
Ion Ratio Lower Upper
169 100
168 78.2 53.8 80.6
167 39.3 29.8 44.8

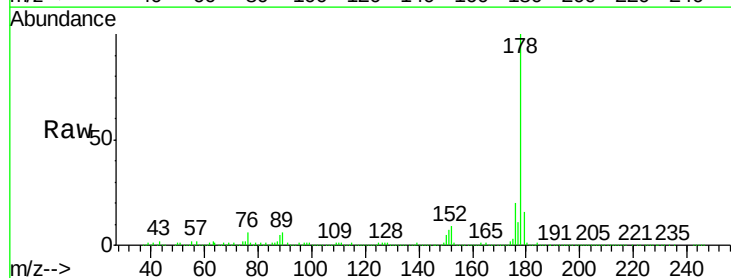


Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E

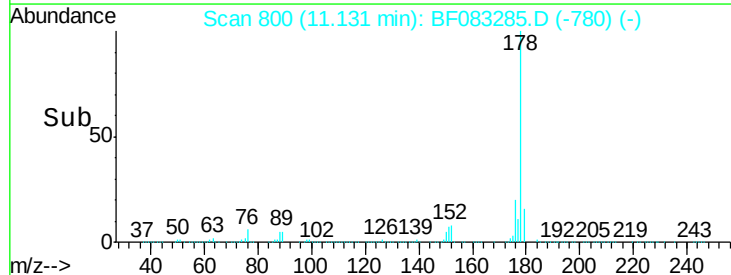
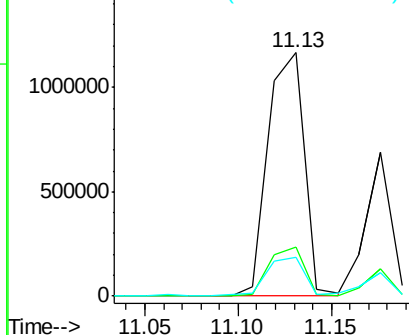


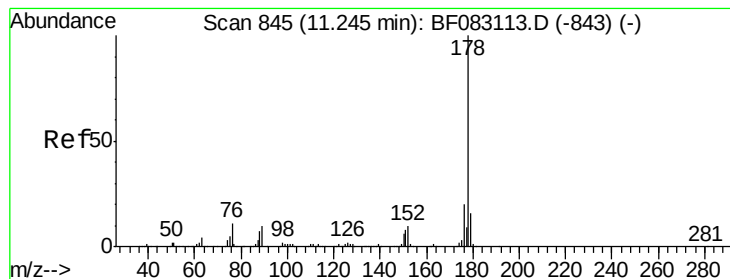
#70
Phenanthrene
Concen: 50.54 ng
RT: 11.13 min Scan# 800
Delta R.T. -0.07 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

Tgt Ion:178 Resp: 1560756
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.2
179 16.1 12.8 19.2



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: 20.47 ng

RT: 11.18 min Scan# 804

Delta R.T. -0.07 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

Instrument :

BNA_F

ClientSampleId :

STOCKPILE-COMPOSITE1

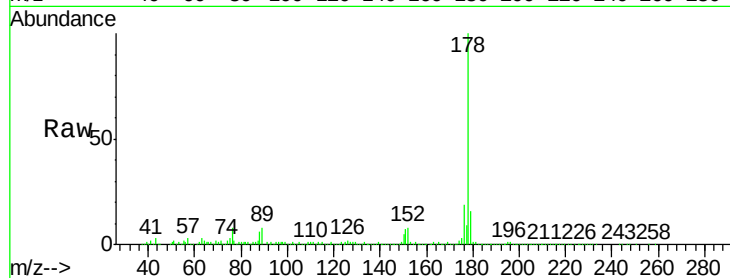
Tgt Ion:178 Resp: 645122

Ion Ratio Lower Upper

178 100

176 19.0 15.6 23.4

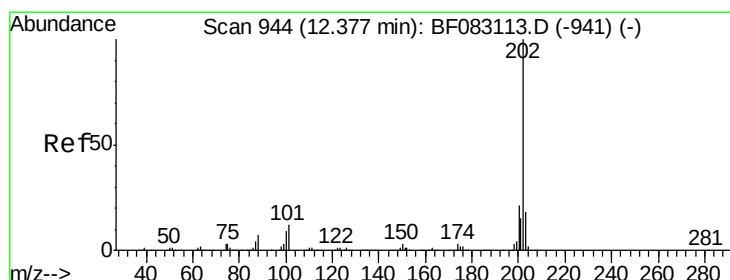
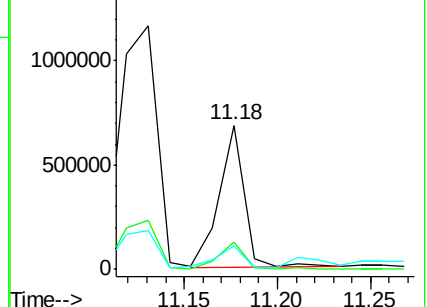
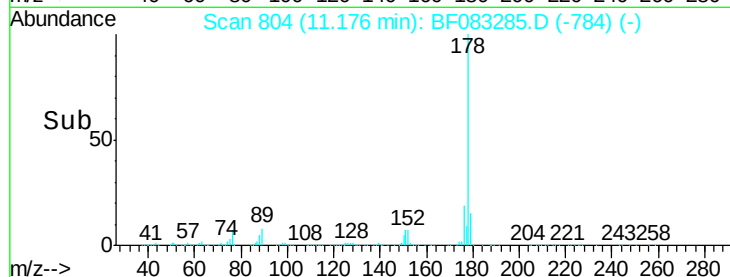
179 15.9 13.2 19.8



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



#74

Fluoranthene

Concen: 44.62 ng

RT: 12.31 min Scan# 903

Delta R.T. -0.07 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

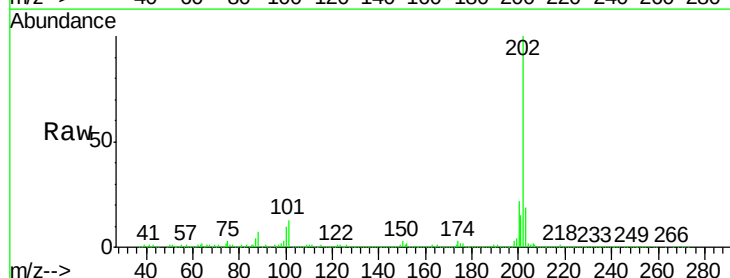
Tgt Ion:202 Resp: 1410117

Ion Ratio Lower Upper

202 100

101 13.3 0.0 32.3

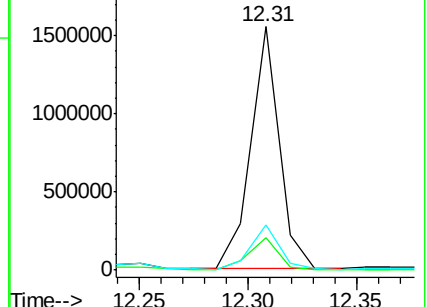
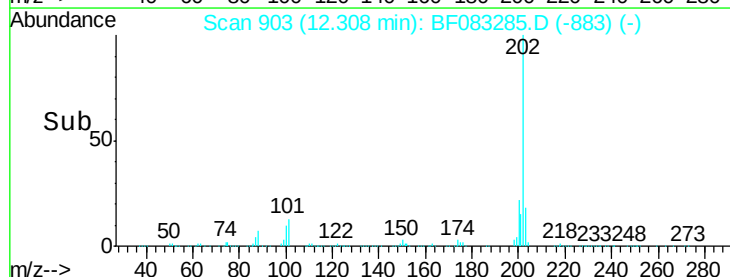
203 18.8 0.0 38.4

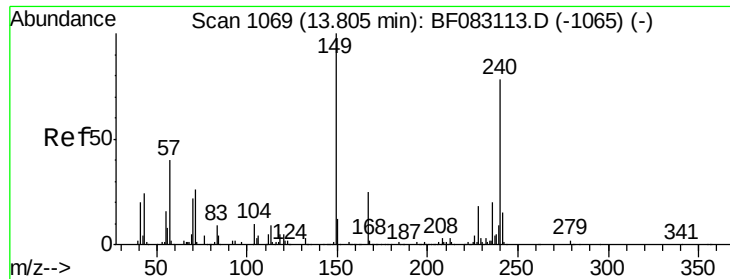


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

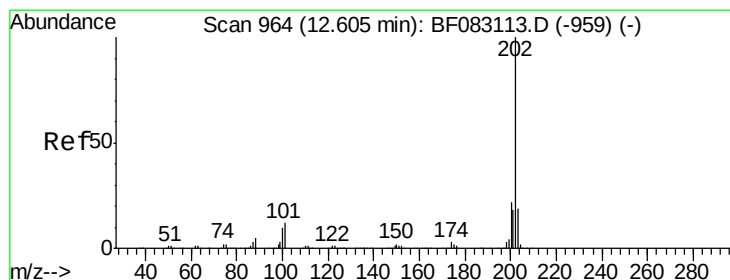
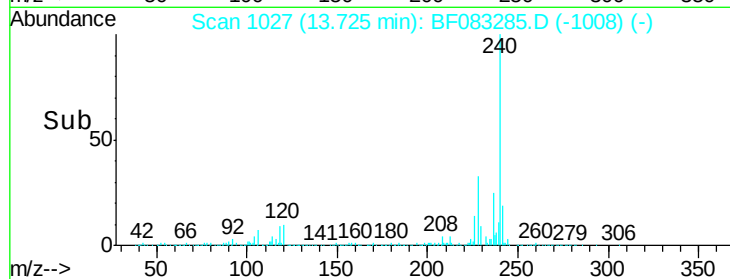
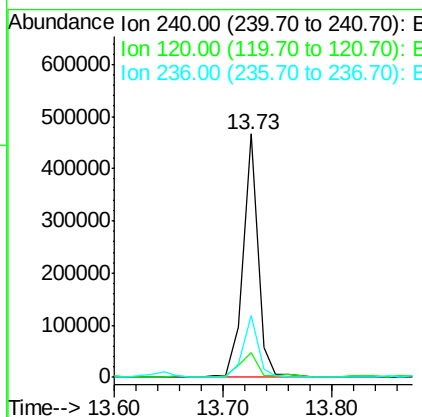
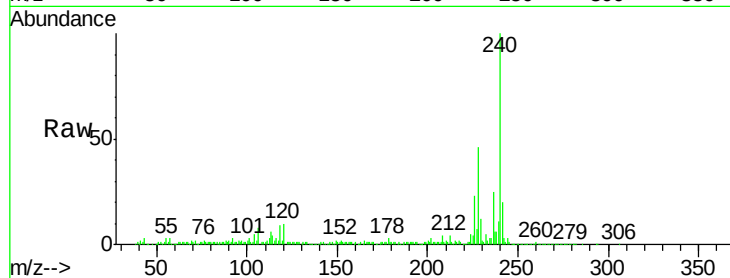




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.73 min Scan# 1027
Delta R.T. -0.08 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

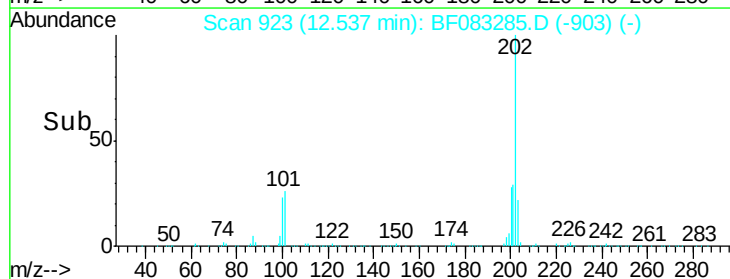
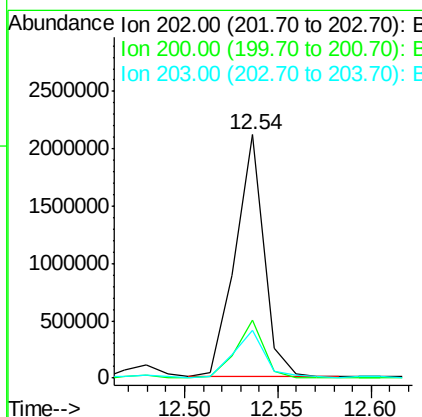
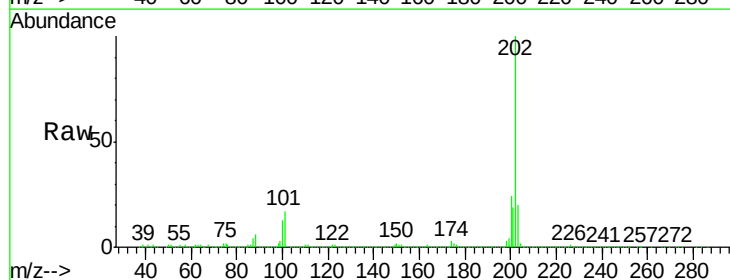
Instrument :
BNA_F
ClientSampleId :
STOCKPILE-COMPOSITE1

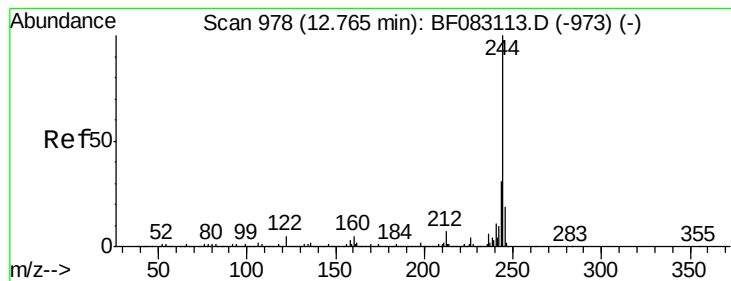
Tgt Ion:240 Resp: 431079
Ion Ratio Lower Upper
240 100
120 9.9 5.4 8.2#
236 25.3 20.6 31.0



#77
Pyrene
Concen: 77.33 ng
RT: 12.54 min Scan# 923
Delta R.T. -0.07 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

Tgt Ion:202 Resp: 2277503
Ion Ratio Lower Upper
202 100
200 23.7 17.8 26.6
203 19.7 15.0 22.4





#78

Terphenyl-d14

Concen: 15.56 ng

RT: 12.69 min Scan# 936

Delta R.T. -0.08 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

Instrument :

BNA_F

ClientSampleId :

STOCKPILE-COMPOSITE1

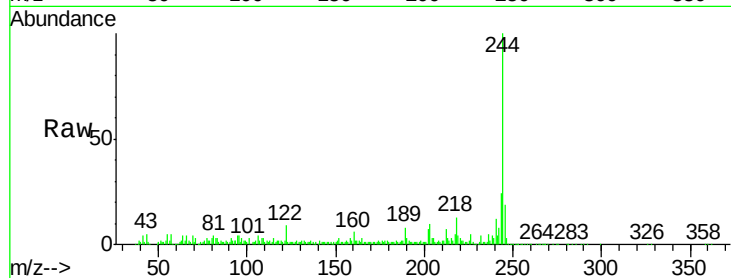
Tgt Ion:244 Resp: 284803

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

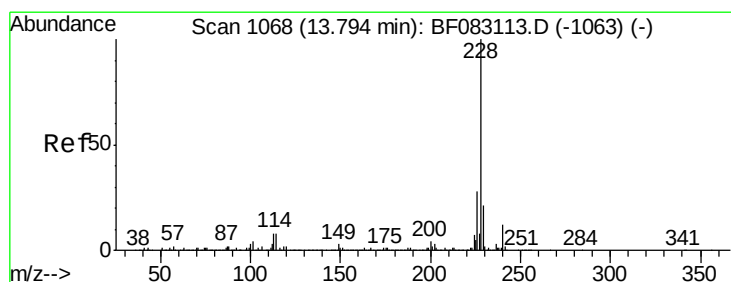
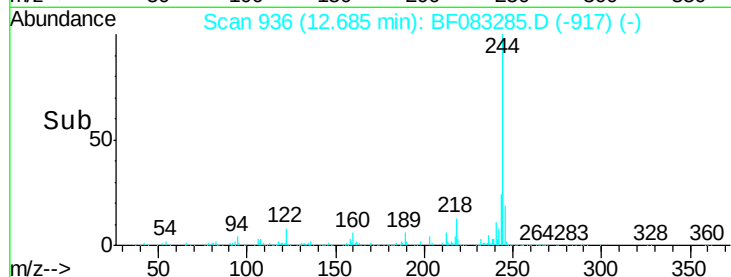
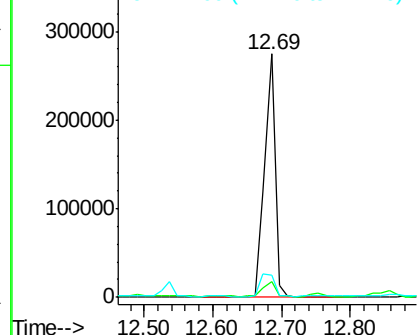
122 8.9 4.3 6.5#



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: 36.18 ng

RT: 13.71 min Scan# 1026

Delta R.T. -0.08 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

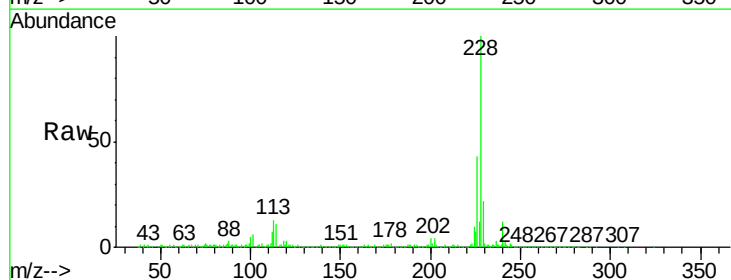
Tgt Ion:228 Resp: 964669

Ion Ratio Lower Upper

228 100

226 43.4 22.6 33.8#

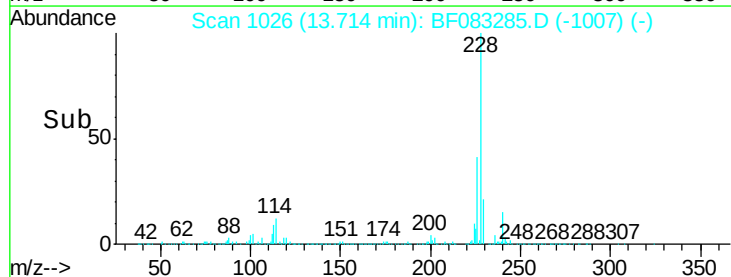
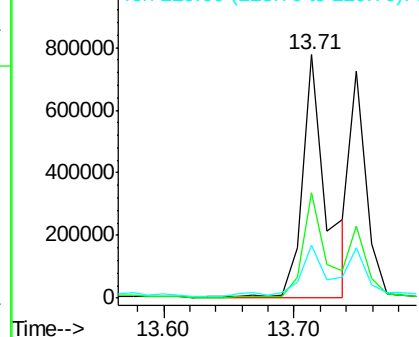
229 21.7 16.6 24.8

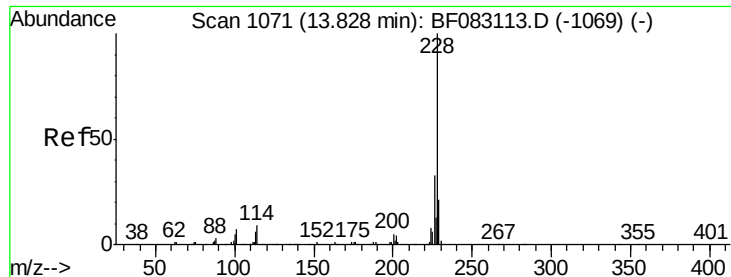


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 39.02 ng

RT: 13.71 min Scan# 1026

Delta R.T. -0.11 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

Instrument :

BNA_F

ClientSampleId :

STOCKPILE-COMPOSITE1

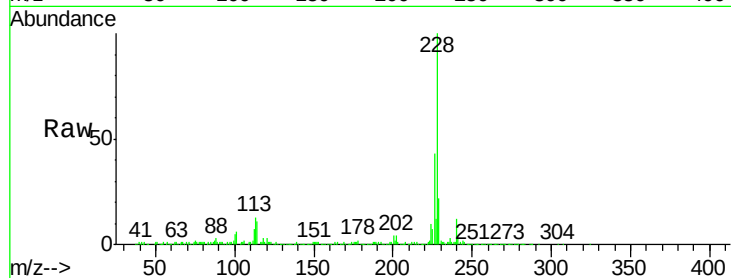
Tgt Ion:228 Resp: 964669

Ion Ratio Lower Upper

228 100

226 43.4 25.5 38.3#

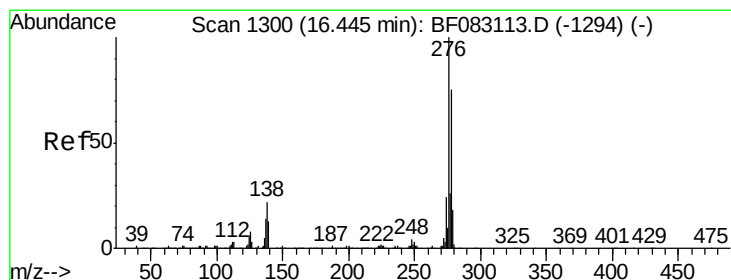
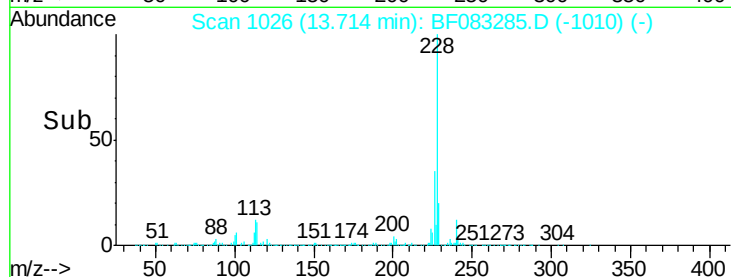
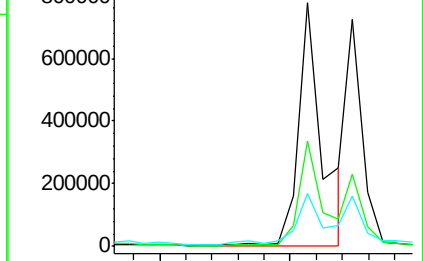
229 21.7 16.6 25.0



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: 17.02 ng

RT: 16.30 min Scan# 1252

Delta R.T. -0.15 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

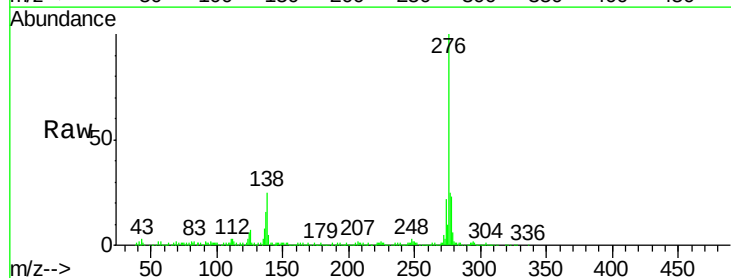
Tgt Ion:276 Resp: 382730

Ion Ratio Lower Upper

276 100

138 22.7 18.0 27.0

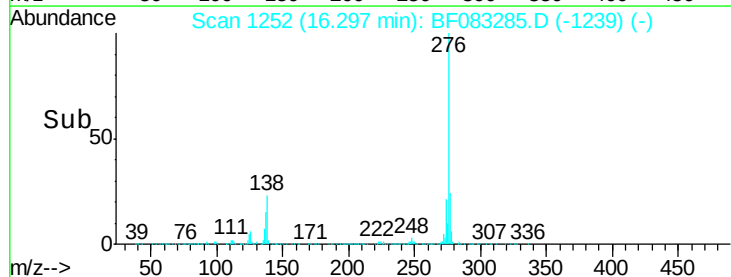
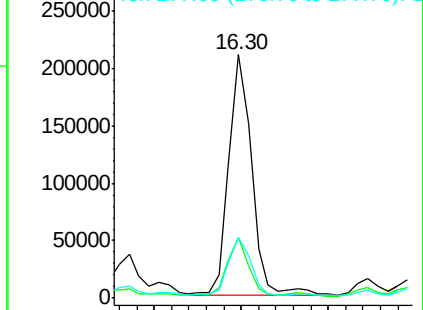
277 23.3 20.2 30.4

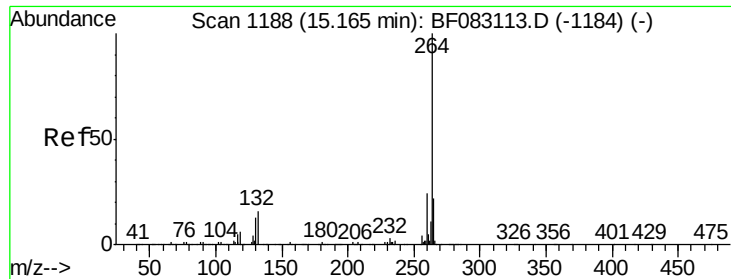


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



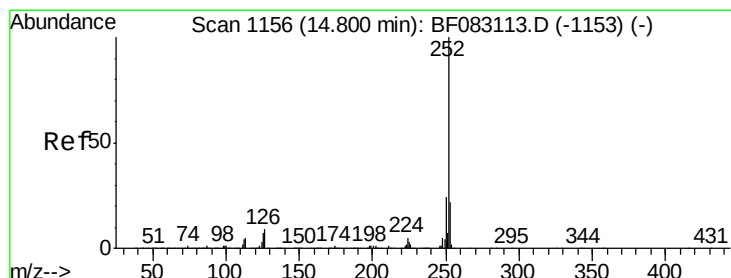
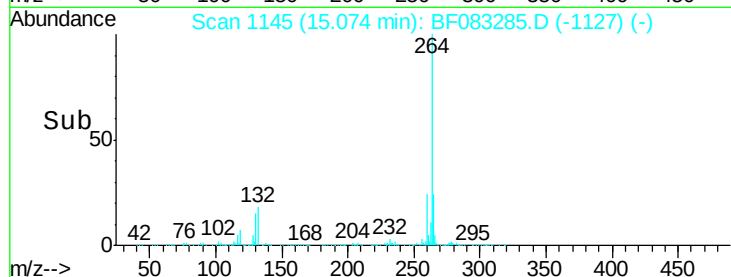
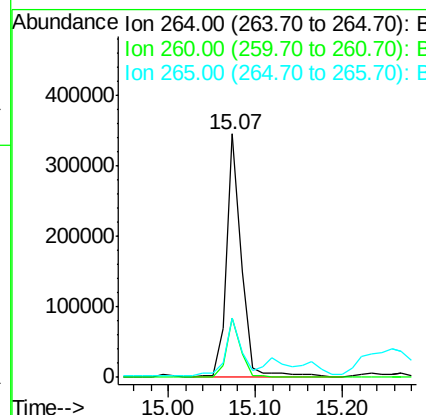
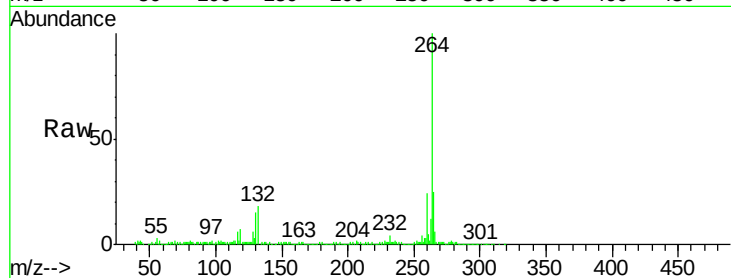


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.07 min Scan# 1145
Delta R.T. -0.09 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

Instrument :
BNA_F
ClientSampleId :
STOCKPILE-COMPOSITE1

Tgt Ion: 264 Resp: 414616

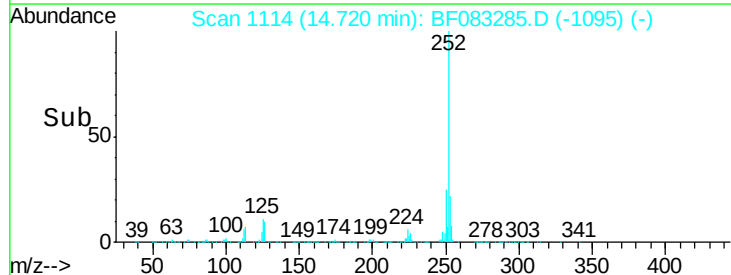
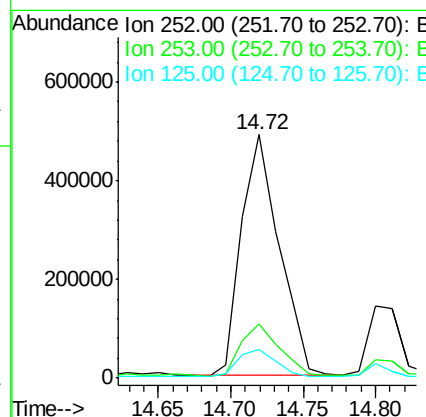
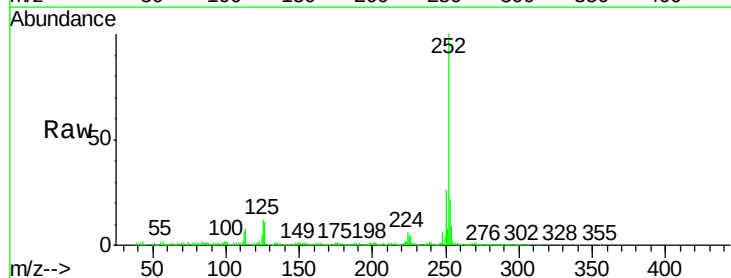
Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.1	28.7
265	24.5	18.2	27.4

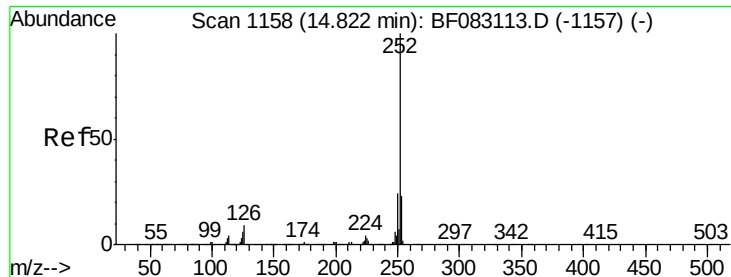


#87
Benzo(b)fluoranthene
Concen: 31.52 ng
RT: 14.72 min Scan# 1114
Delta R.T. -0.08 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

Tgt Ion: 252 Resp: 893062

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.7	26.5
125	11.6	5.6	8.4

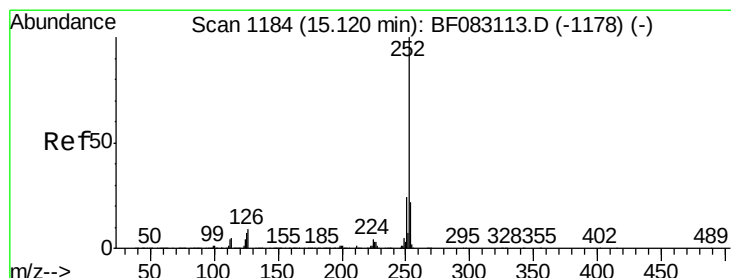
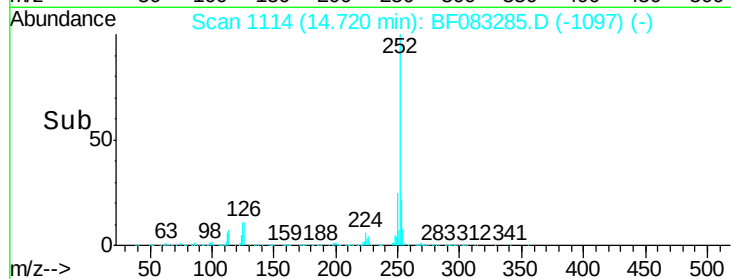
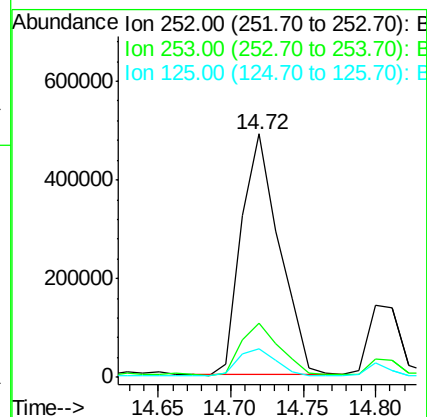
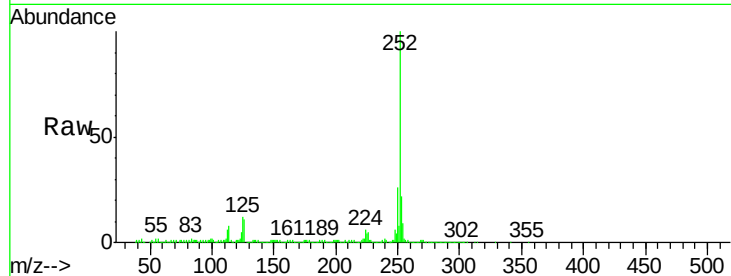




#88
Benzo(k)fluoranthene
Concen: 42.31 ng
RT: 14.72 min Scan# 1114
Delta R.T. -0.10 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

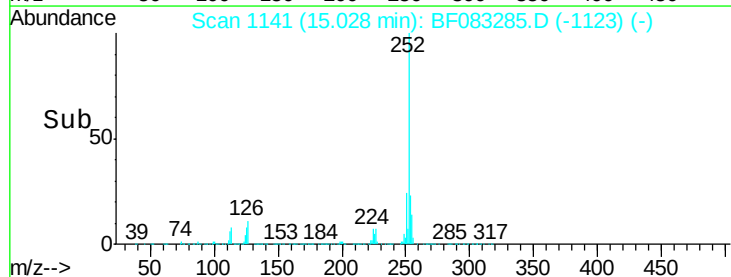
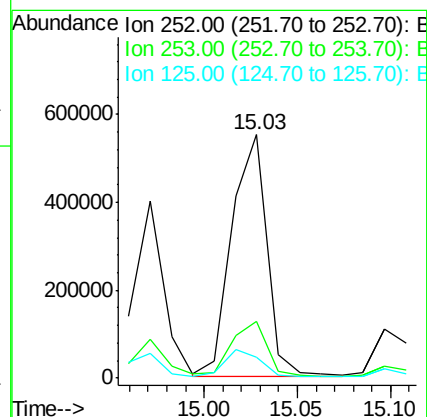
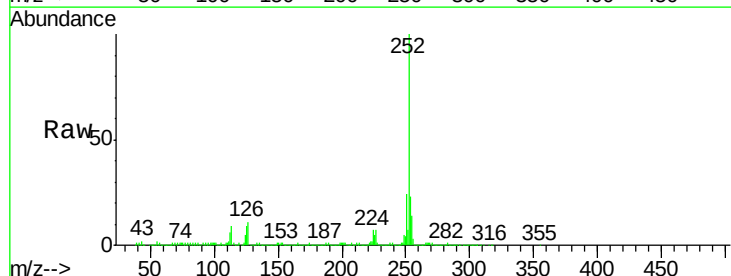
Instrument :
BNA_F
ClientSampleId :
STOCKPILE-COMPOSITE1

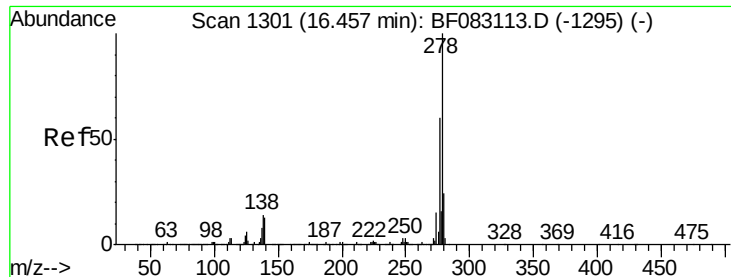
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.2	27.2
125	11.6	6.8	10.2



#89
Benzo(a)pyrene
Concen: 31.31 ng
RT: 15.03 min Scan# 1141
Delta R.T. -0.09 min
Lab File: BF083285.D
Acq: 25 Nov 2015 20:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	8.7	5.4	8.0





#90

Dibenzo(a,h)anthracene

Concen: 4.82 ng

RT: 16.45 min Scan# 1265

Delta R.T. -0.01 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

Instrument :

BNA_F

ClientSampleId :

STOCKPILE-COMPOSITE1

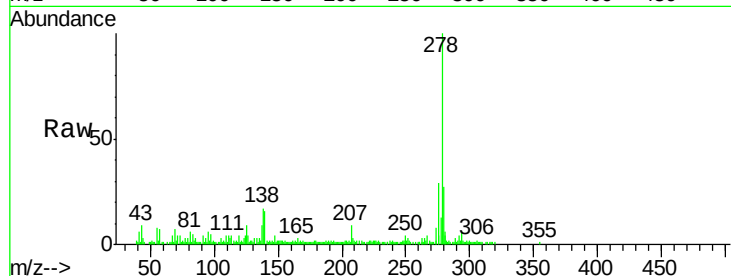
Tgt Ion:278 Resp: 102323

Ion Ratio Lower Upper

278 100

139 16.0 10.7 16.1

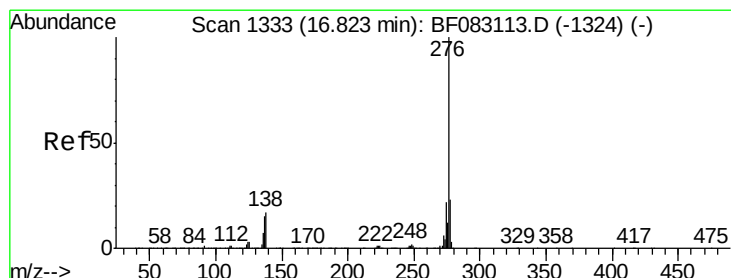
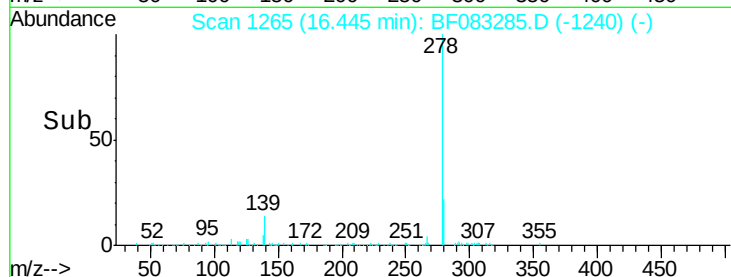
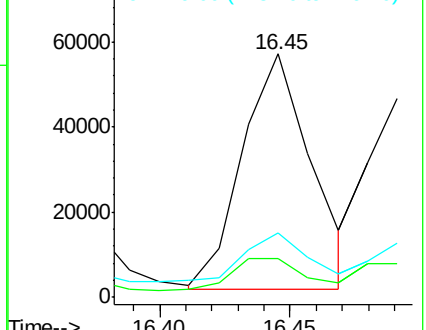
279 26.6 19.3 28.9



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: 19.79 ng

RT: 16.66 min Scan# 1284

Delta R.T. -0.16 min

Lab File: BF083285.D

Acq: 25 Nov 2015 20:51

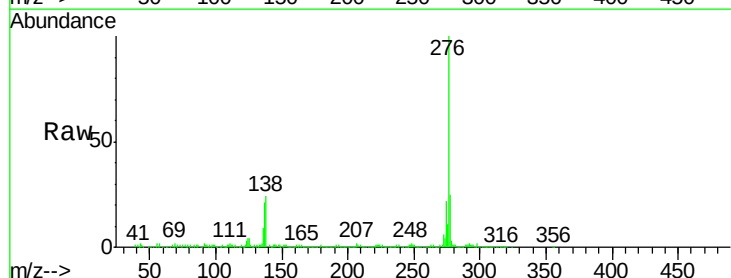
Tgt Ion:276 Resp: 410431

Ion Ratio Lower Upper

276 100

277 24.9 18.7 28.1

138 23.5 13.9 20.9#



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

