

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030216\
 Data File : BE091445.D
 Acq On : 3 Mar 2016 5:30
 Operator : UM/IZ
 Sample : MDL-03-S
 Misc : 0.16PPM
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 03 07:19:27 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 03 01:34:35 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	31947	5.00	ng	0.00
4) Naphthalene-d8	9.54	136	139096	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	85035	5.00	ng	0.00
13) Phenanthrene-d10	16.08	188	209134	5.00	ng	0.00
19) Chrysene-d12	20.21	240	273941	5.00	ng	0.00
25) Perylene-d12	22.09	264	289403	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	36519	4.71	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	99699	4.26	ng	-0.01
21) Terphenyl-d14	18.60	244	170701	4.34	ng	-0.01

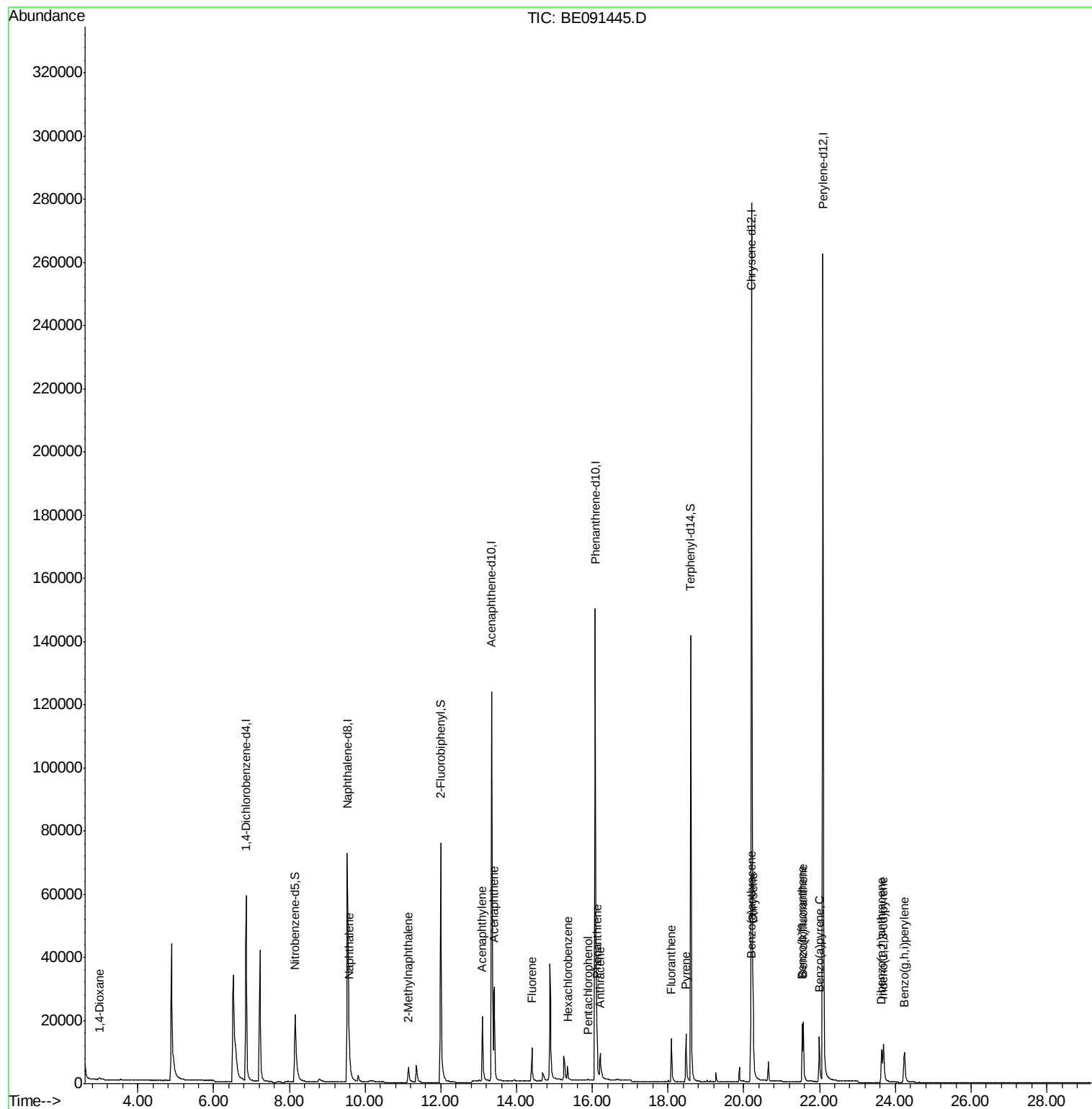
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.99	88	835	0.26	ng	# 90
6) Naphthalene	9.58	128	9598	0.28	ng	98
7) 2-Methylnaphthalene	11.14	142	5536	0.27	ng	97
10) Acenaphthylene	13.09	152	35186	0.24	ng	100
11) Acenaphthene	13.41	154	6777	0.26	ng	97
12) Fluorene	14.40	166	8722	0.25	ng	99
14) Hexachlorobenzene	15.34	284	3118	0.28	ng	98
15) Pentachlorophenol	15.88	266	416	0.25	ng	95
16) Phenanthrene	16.12	178	16990	0.27	ng	99
17) Anthracene	16.21	178	13751	0.25	ng	99
18) Fluoranthene	18.09	202	17286	0.26	ng	100
20) Pyrene	18.47	202	17569	0.26	ng	100
22) Benzo(a)anthracene	20.18	228	17109	0.25	ng	99
23) Chrysene	20.24	228	23421	0.26	ng	99
24) Indeno(1,2,3-cd)pyrene	23.68	276	18884	0.21	ng	98
26) Benzo(b)fluoranthene	21.54	252	19132	0.24	ng	99
27) Benzo(k)fluoranthene	21.57	252	21721	0.24	ng	99
28) Benzo(a)pyrene	21.99	252	17560	0.23	ng	99
29) Dibenzo(a,h)anthracene	23.64	278	17804	0.21	ng	99
30) Benzo(g,h,i)perylene	24.24	276	19957	0.22	ng	97

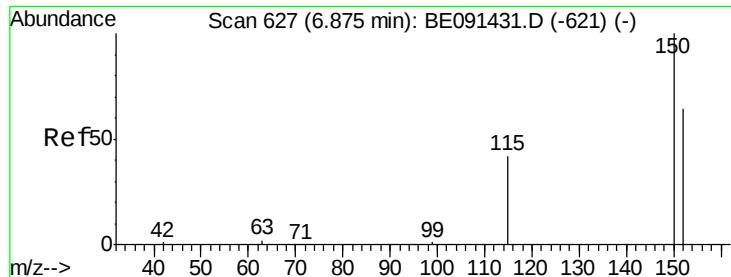
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 624

Delta R.T. -0.01 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

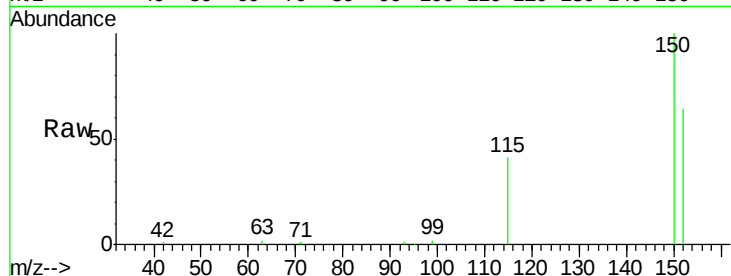
Tgt Ion: 152 Resp: 31947

Ion Ratio Lower Upper

152 100

150 157.3 122.1 183.1

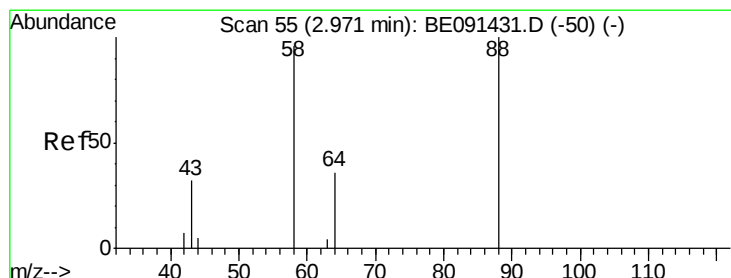
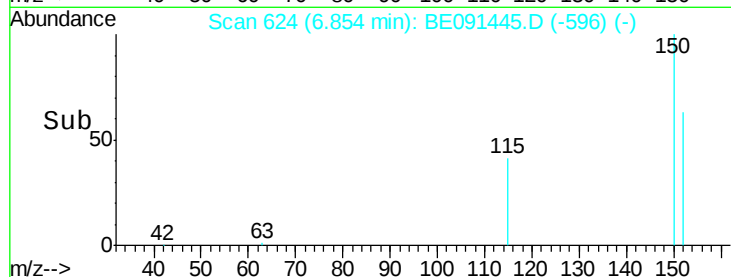
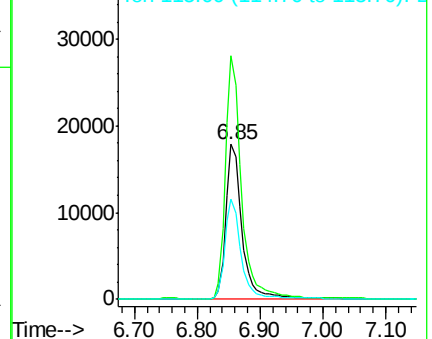
115 64.9 50.3 75.5



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



#2

1,4-Dioxane

Concen: 0.26 ng

RT: 2.99 min Scan# 57

Delta R.T. 0.02 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

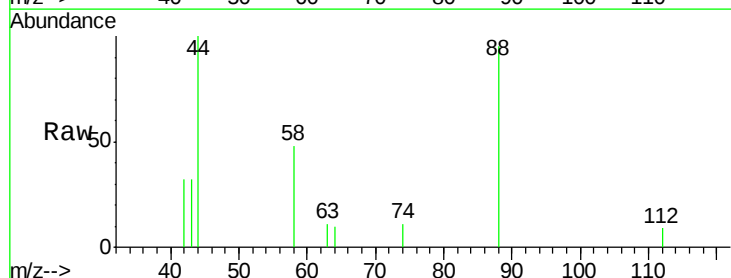
Tgt Ion: 88 Resp: 835

Ion Ratio Lower Upper

88 100

58 119.2 88.8 133.2

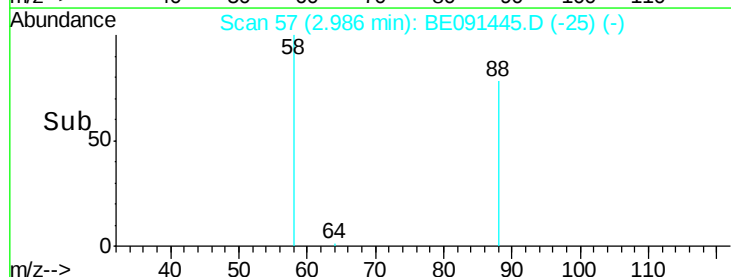
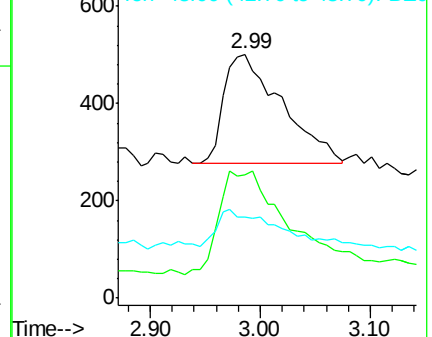
43 46.9 30.2 45.4#

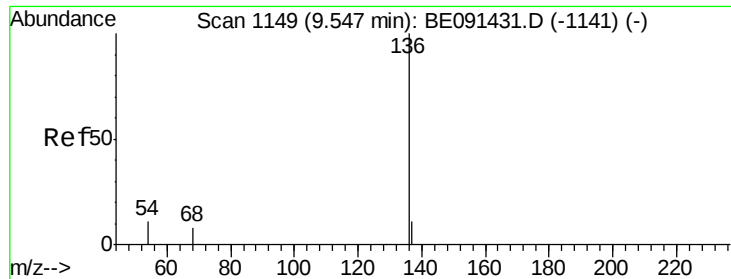


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.54 min Scan# 1148

Delta R.T. 0.01 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

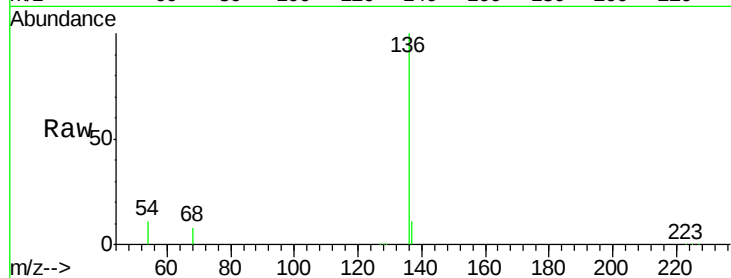
Tgt Ion: 136 Resp: 139096

Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

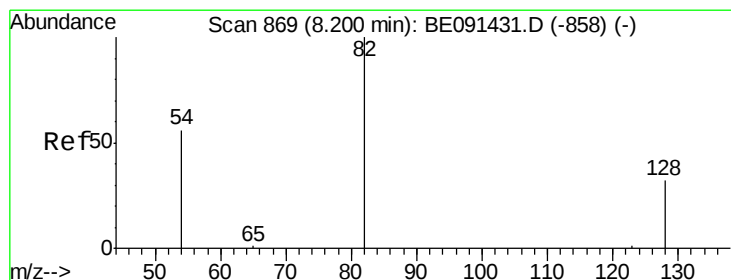
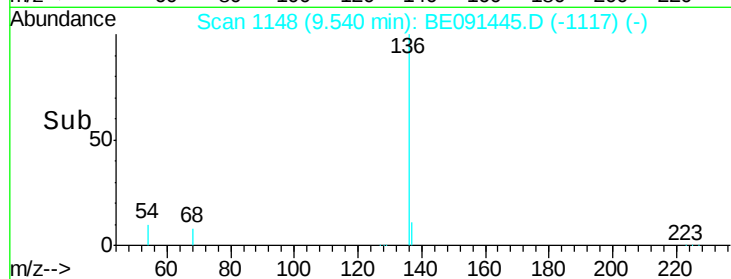
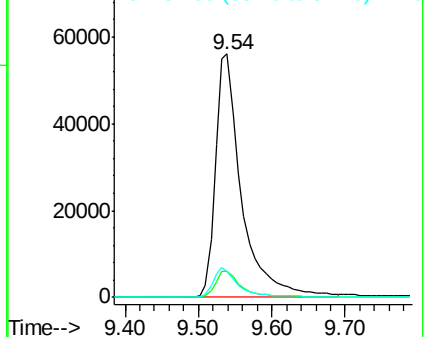
54 10.6 9.1 13.7



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): BE0



#5

Nitrobenzene-d5

Concen: 4.71 ng

RT: 8.15 min Scan# 858

Delta R.T. -0.03 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

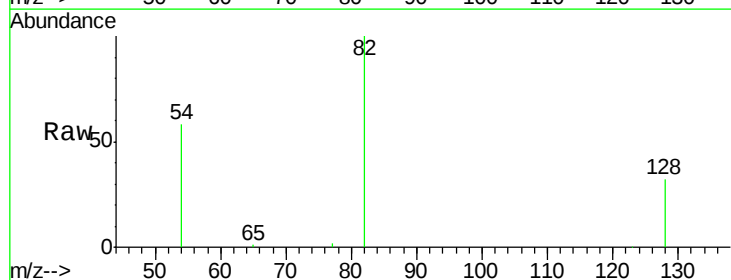
Tgt Ion: 82 Resp: 36519

Ion Ratio Lower Upper

82 100

128 31.5 31.4 47.0

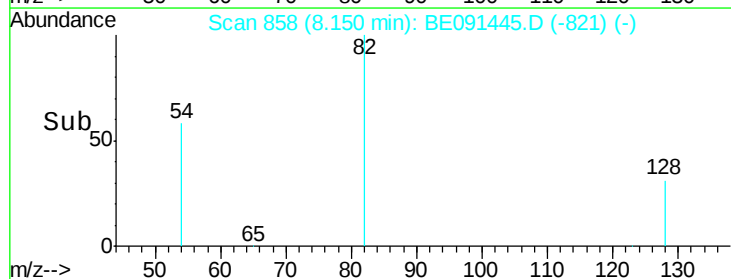
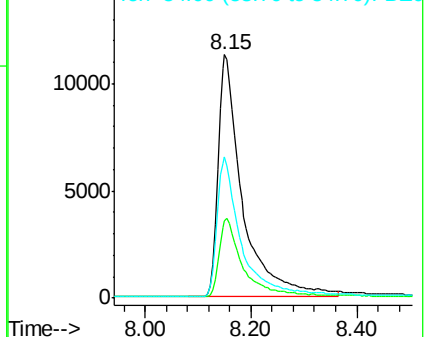
54 57.9 45.5 68.3

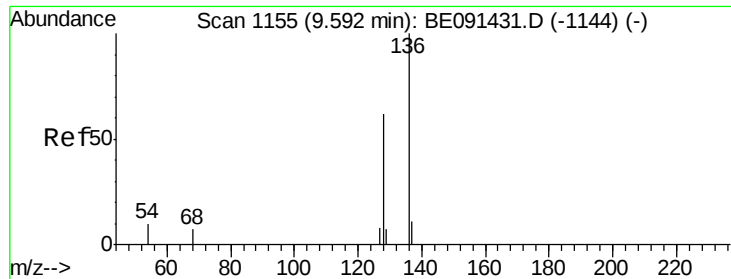


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#6

Naphthalene

Concen: 0.28 ng

RT: 9.58 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

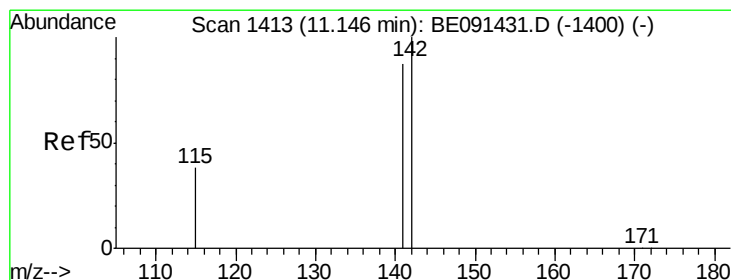
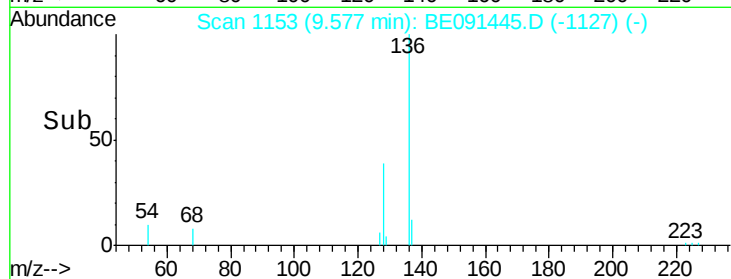
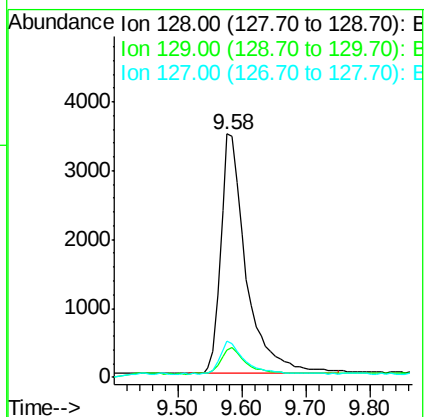
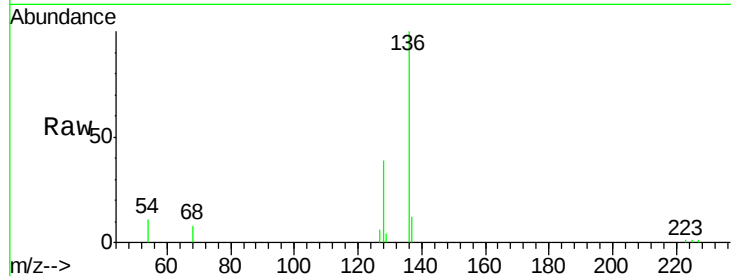
Tgt Ion:128 Resp: 9598

Ion Ratio Lower Upper

128 100

129 11.4 9.4 14.0

127 14.9 11.0 16.6



#7

2-Methylnaphthalene

Concen: 0.27 ng

RT: 11.14 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

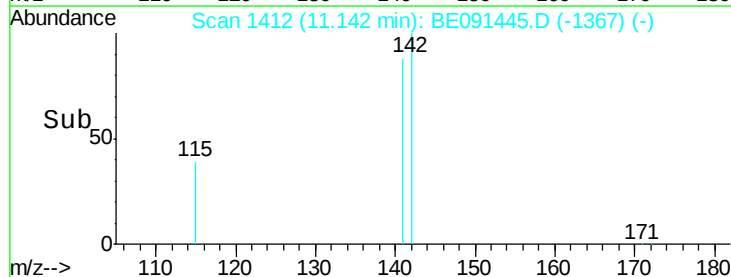
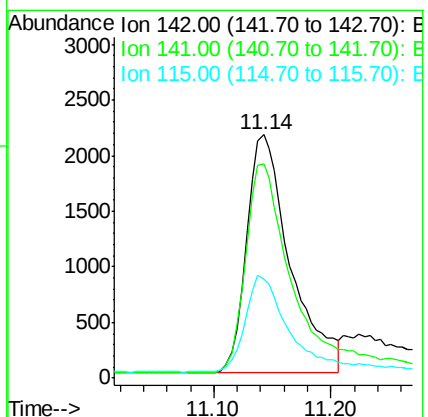
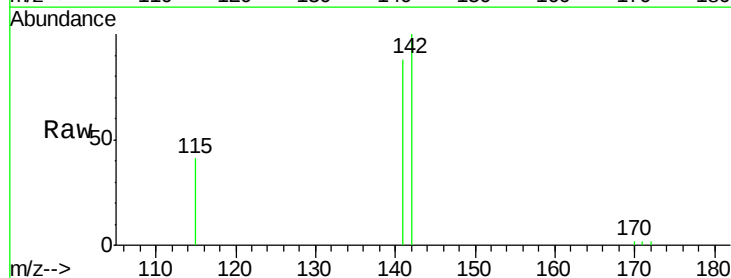
Tgt Ion:142 Resp: 5536

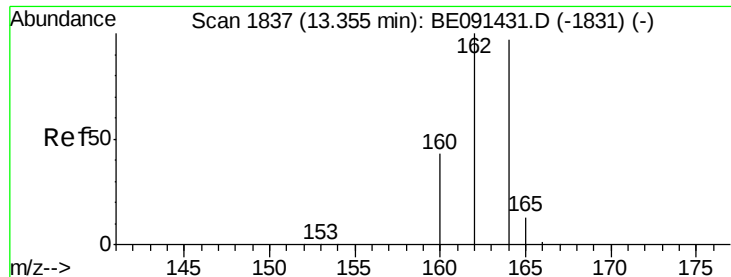
Ion Ratio Lower Upper

142 100

141 88.2 68.8 103.2

115 40.5 31.0 46.6





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 1835

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

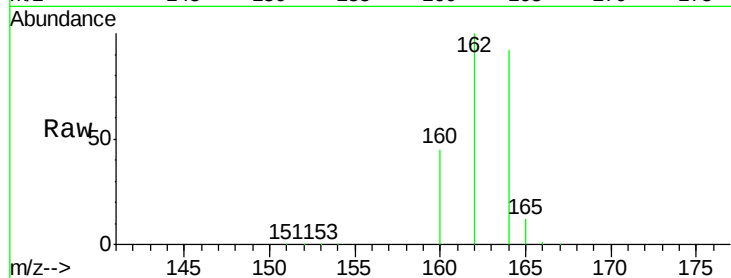
Tgt Ion:164 Resp: 85035

Ion Ratio Lower Upper

164 100

162 108.1 83.4 125.0

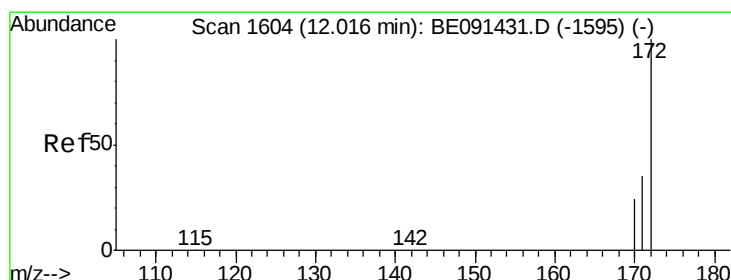
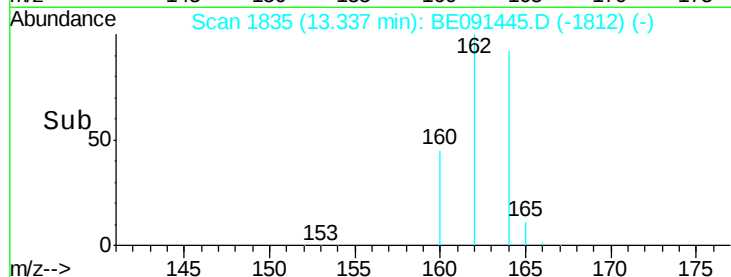
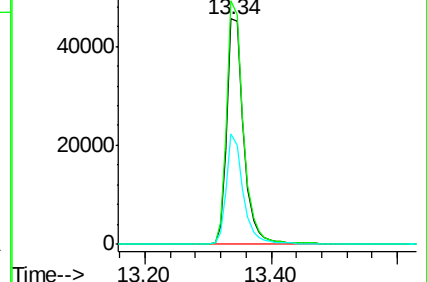
160 49.0 37.8 56.8



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



#9

2-Fluorobiphenyl

Concen: 4.26 ng

RT: 11.99 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

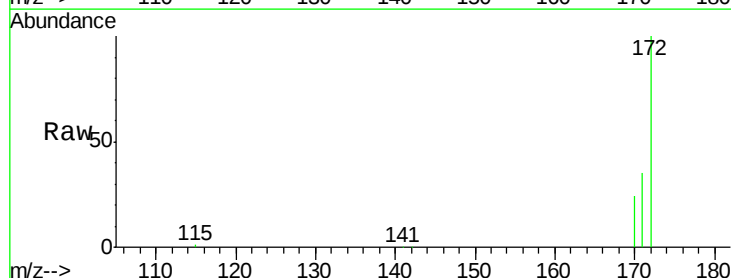
Tgt Ion:172 Resp: 99699

Ion Ratio Lower Upper

172 100

171 35.4 27.8 41.8

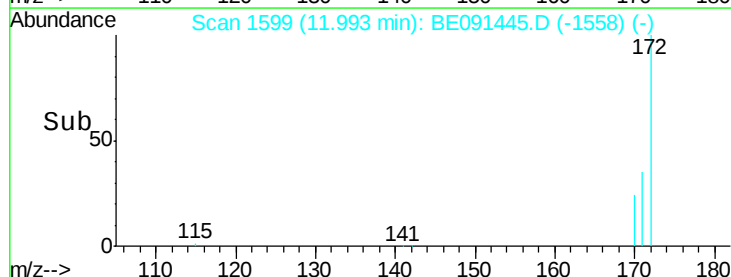
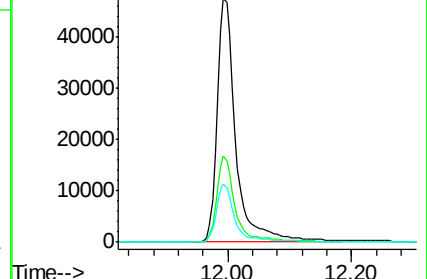
170 23.9 19.3 28.9

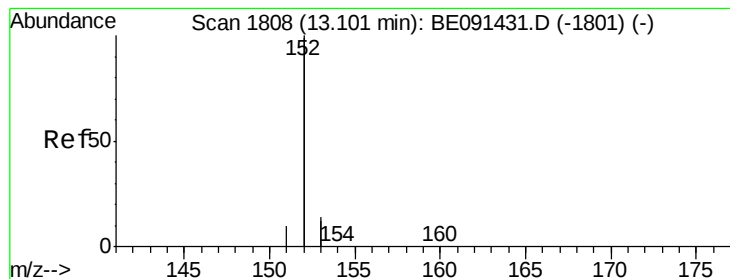


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthylene

Concen: 0.24 ng

RT: 13.09 min Scan# 1807

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

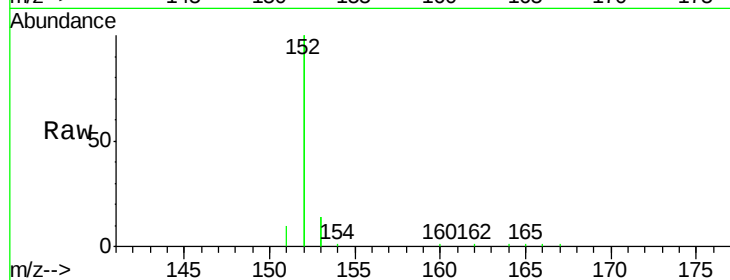
Tgt Ion:152 Resp: 35186

Ion Ratio Lower Upper

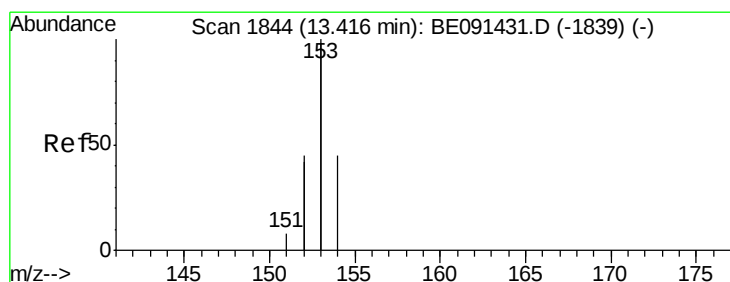
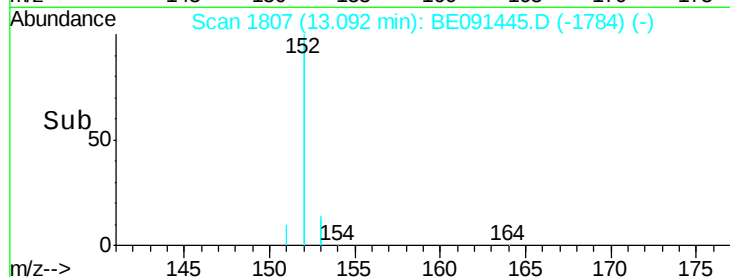
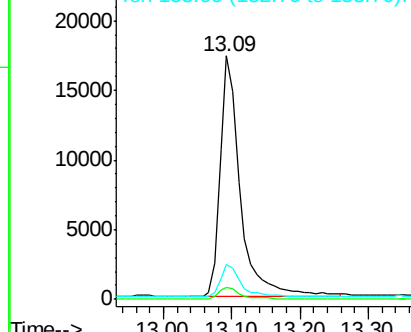
152 100

151 4.9 3.8 5.6

153 13.1 10.4 15.6



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



#11

Acenaphthene

Concen: 0.26 ng

RT: 13.41 min Scan# 1843

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

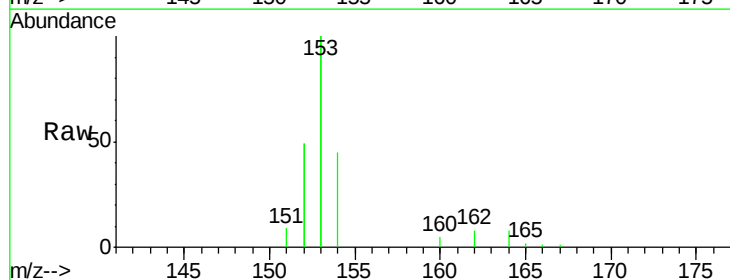
Tgt Ion:154 Resp: 6777

Ion Ratio Lower Upper

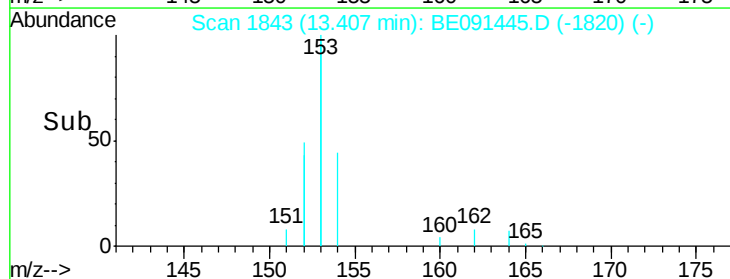
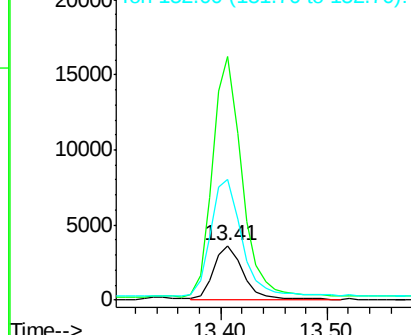
154 100

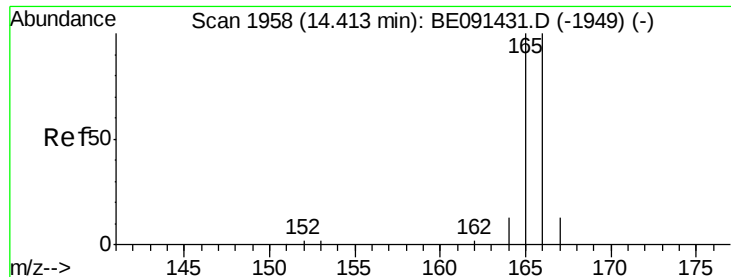
153 458.4 362.3 543.5

152 233.5 182.6 273.8



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





#12

Fluorene

Concen: 0.25 ng

RT: 14.40 min Scan# 1957

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

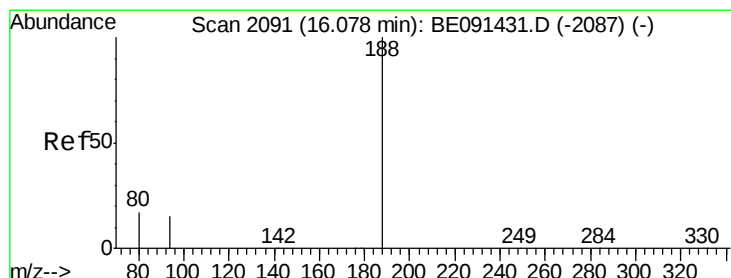
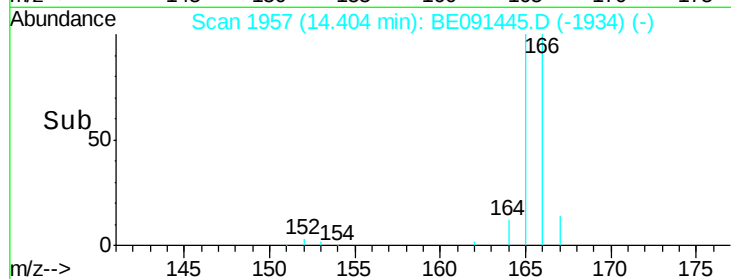
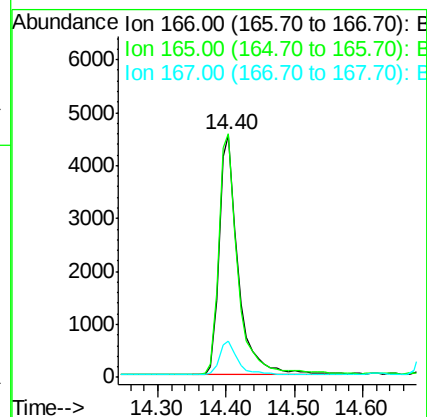
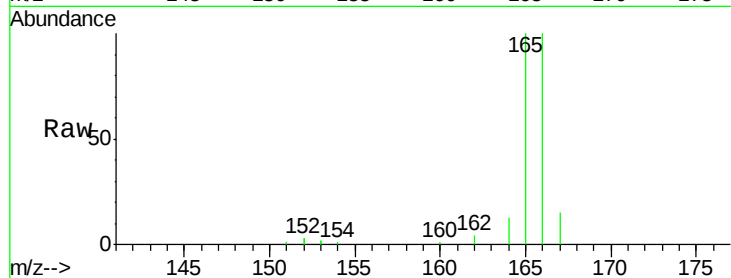
Tgt Ion:166 Resp: 8722

Ion Ratio Lower Upper

166 100

165 100.1 79.1 118.7

167 13.3 11.1 16.7



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

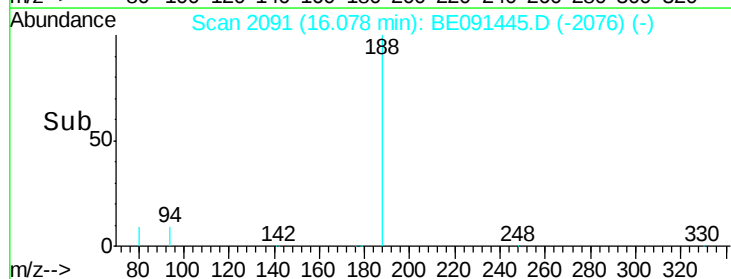
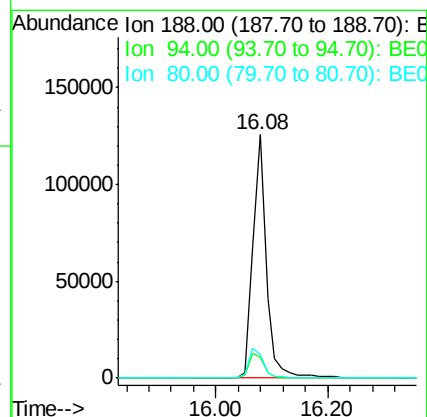
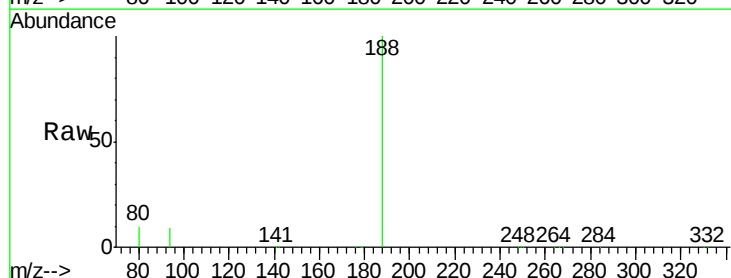
Tgt Ion:188 Resp: 209134

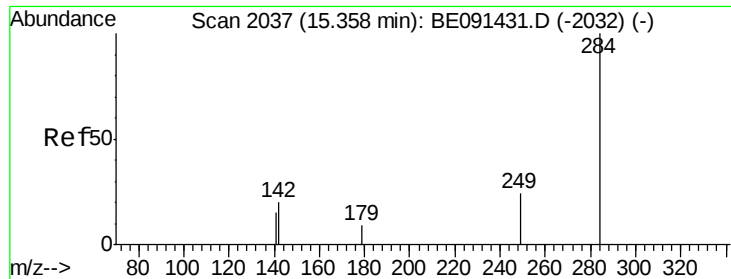
Ion Ratio Lower Upper

188 100

94 8.8 7.0 10.6

80 9.6 7.5 11.3

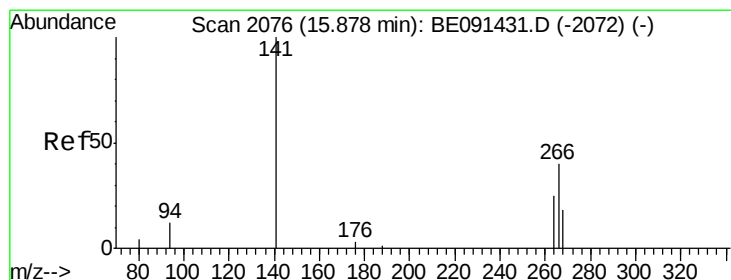
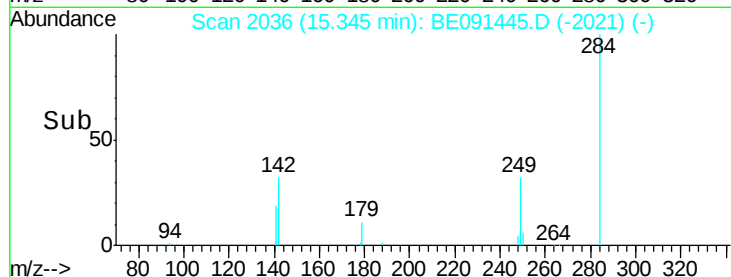
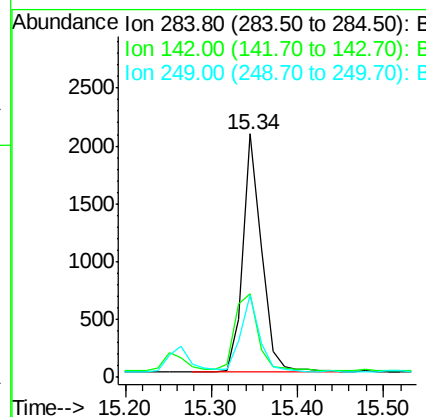
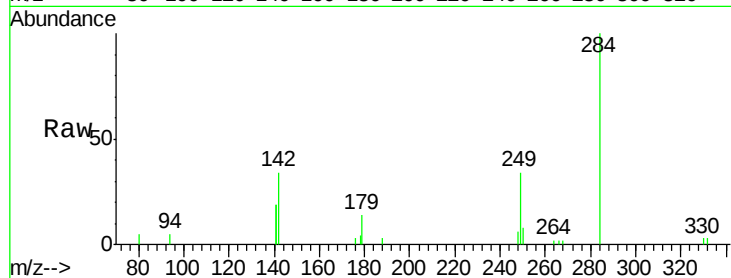




#14
Hexachlorobenzene
Concen: 0.28 ng
RT: 15.34 min Scan# 2036
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 3 Mar 2016 5:30

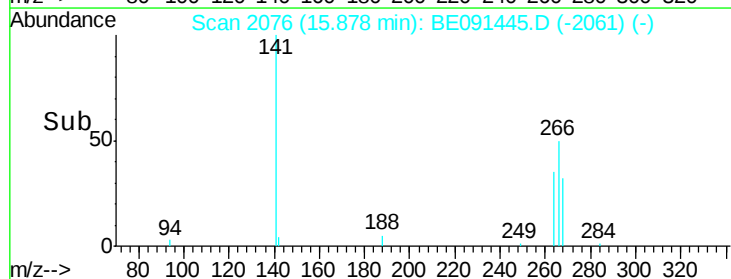
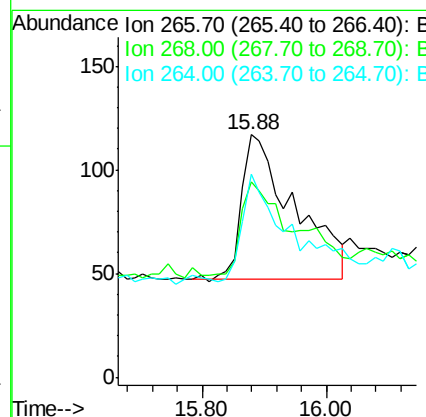
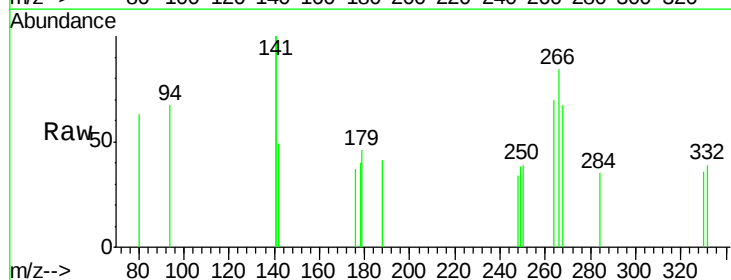
Instrument :
BNA_F
ClientSampled :

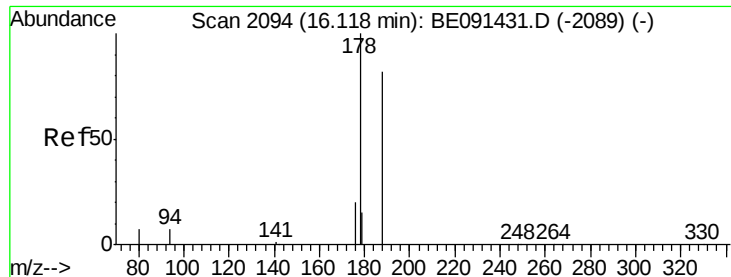
Tgt Ion: 284 Resp: 3118
Ion Ratio Lower Upper
284 100
142 39.2 30.4 45.6
249 32.2 26.5 39.7



#15
Pentachlorophenol
Concen: 0.25 ng
RT: 15.88 min Scan# 2076
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 3 Mar 2016 5:30

Tgt Ion: 266 Resp: 416
Ion Ratio Lower Upper
266 100
268 80.3 65.4 98.2
264 83.8 61.2 91.8

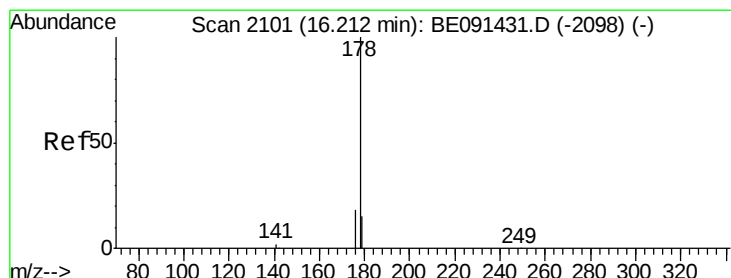
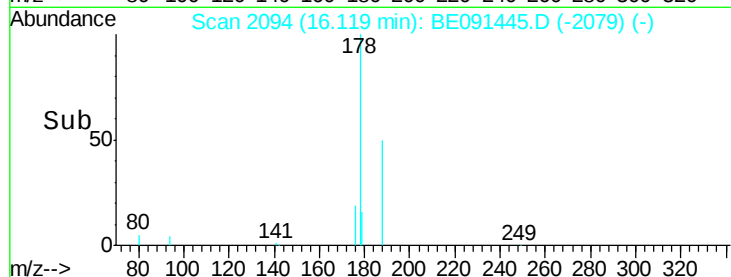
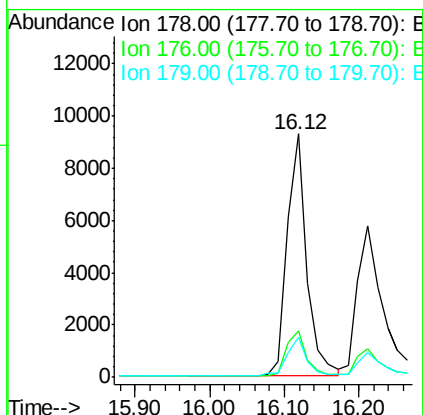
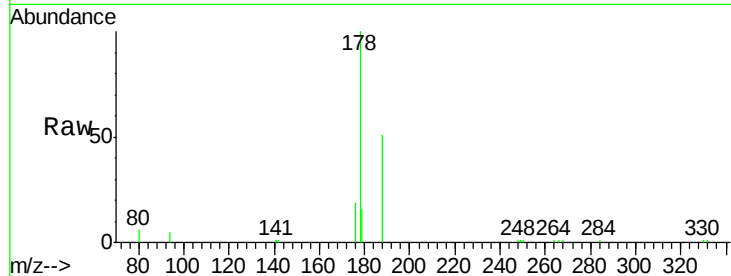




#16
Phenanthrene
Concen: 0.27 ng
RT: 16.12 min Scan# 2094
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 3 Mar 2016 5:30

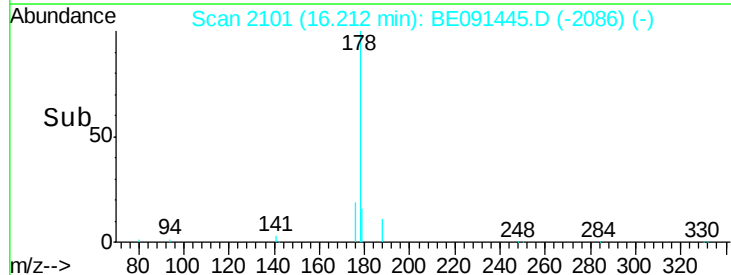
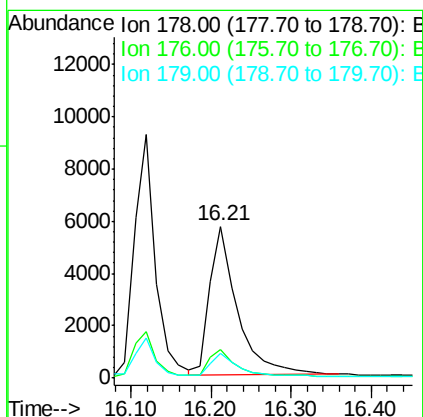
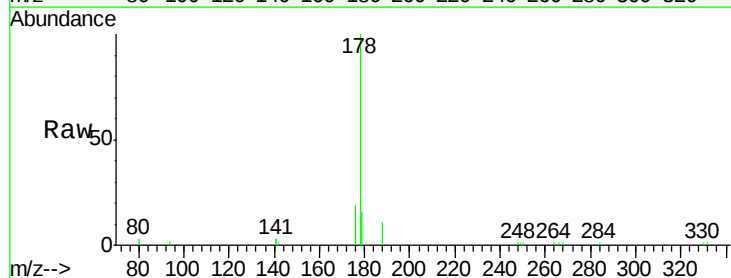
Instrument :
BNA_F
ClientSampleId :

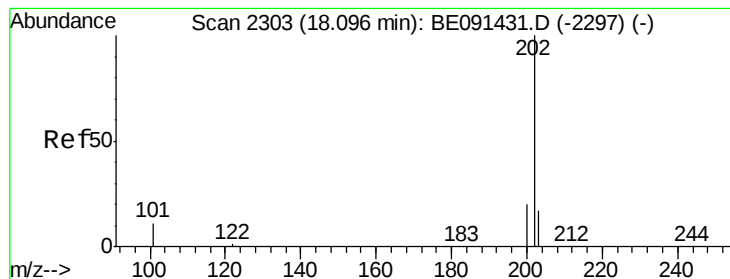
Tgt Ion:178 Resp: 16990
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.4
179 16.3 12.6 19.0



#17
Anthracene
Concen: 0.25 ng
RT: 16.21 min Scan# 2101
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 3 Mar 2016 5:30

Tgt Ion:178 Resp: 13751
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.2 13.0 19.4





#18

Fluoranthene

Concen: 0.26 ng

RT: 18.09 min Scan# 2302

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

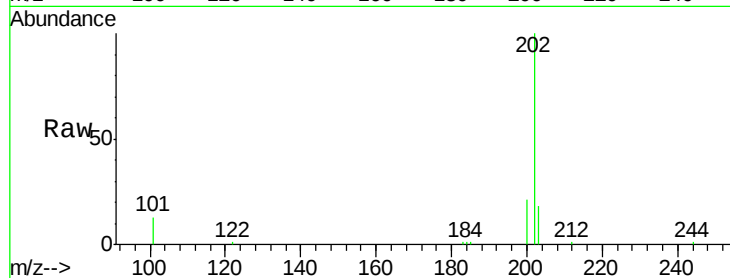
Tgt Ion:202 Resp: 17286

Ion Ratio Lower Upper

202 100

101 12.7 10.3 15.5

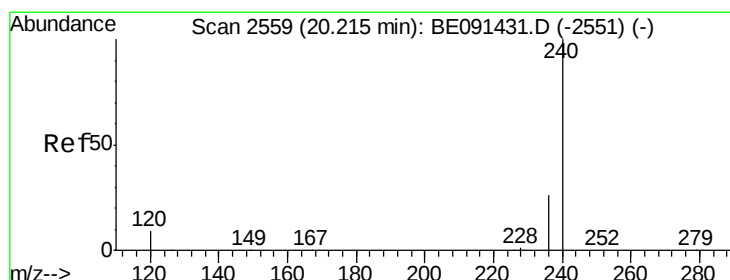
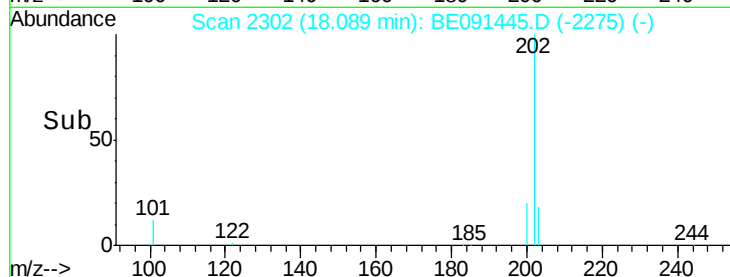
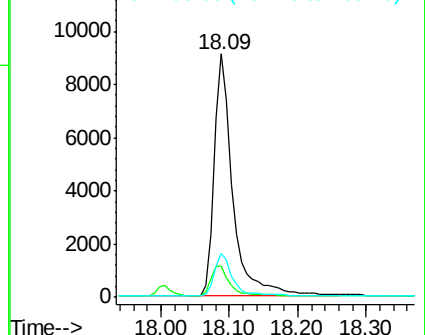
203 17.3 13.8 20.6



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



#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 2558

Delta R.T. -0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

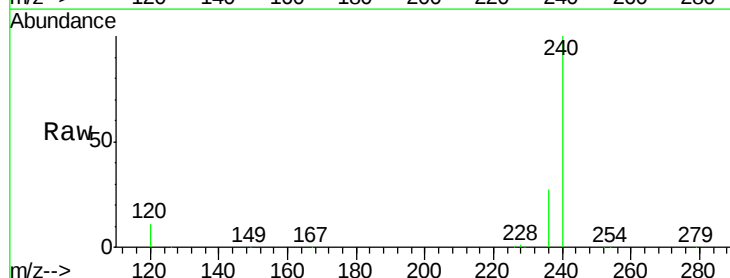
Tgt Ion:240 Resp: 273941

Ion Ratio Lower Upper

240 100

120 11.4 9.4 14.2

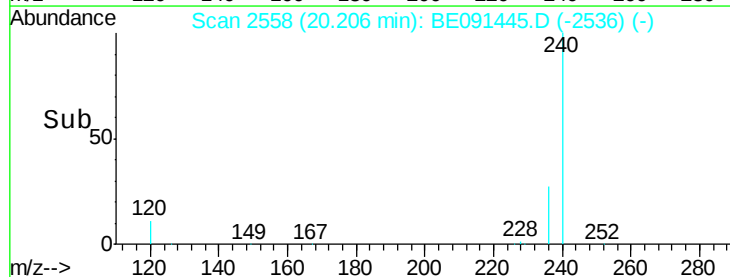
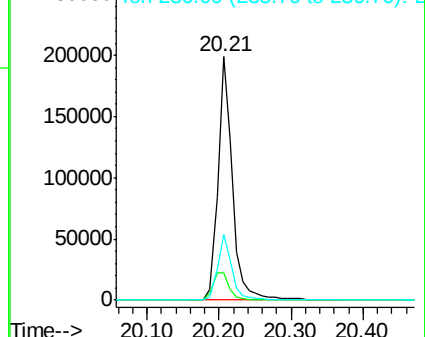
236 27.0 21.5 32.3

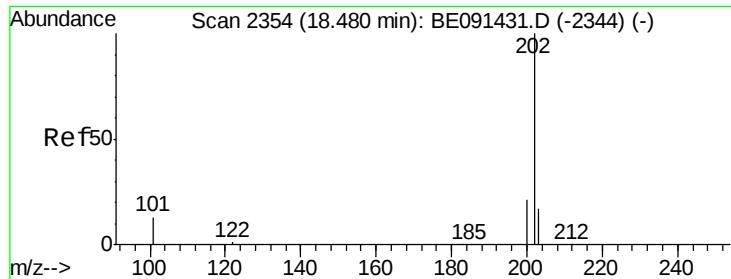


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

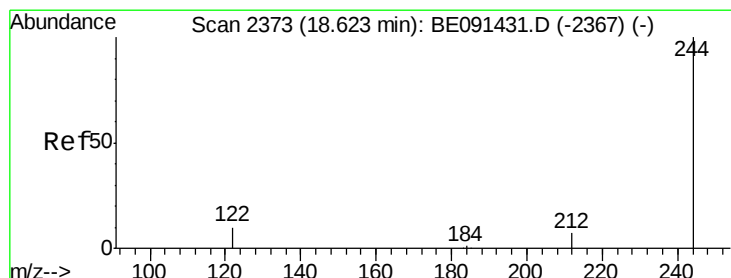
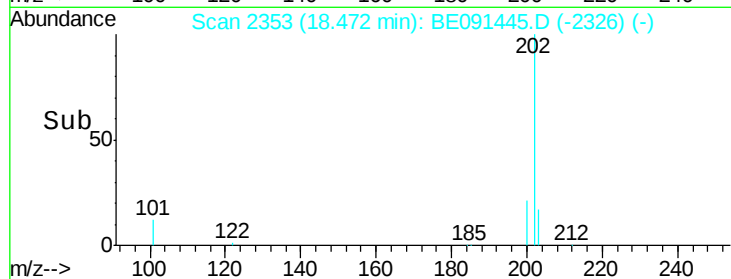
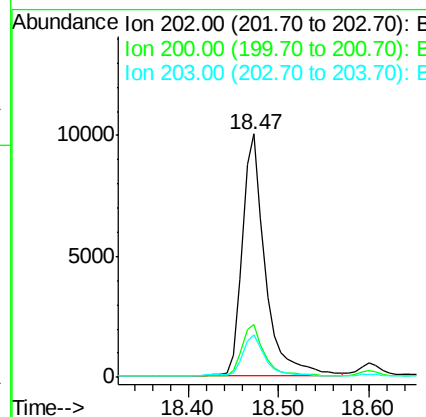
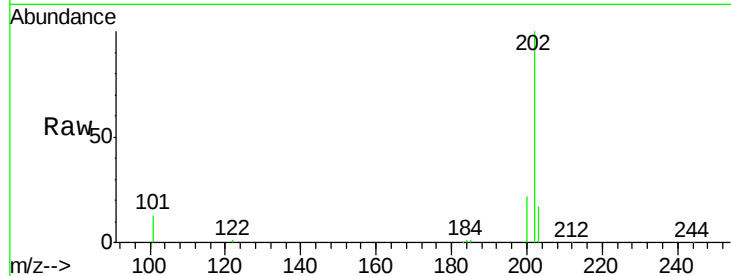




#20
 Pyrene
 Concen: 0.26 ng
 RT: 18.47 min Scan# 2353
 Delta R.T. 0.00 min
 Lab File: BE091445.D
 Acq: 3 Mar 2016 5:30

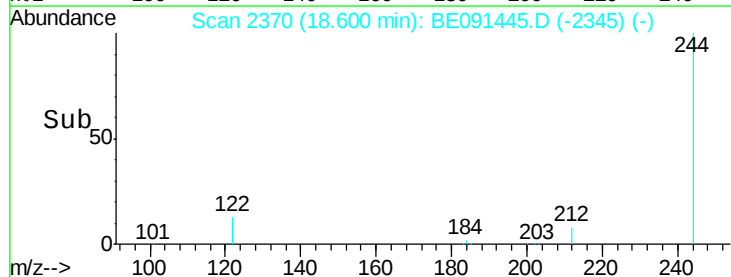
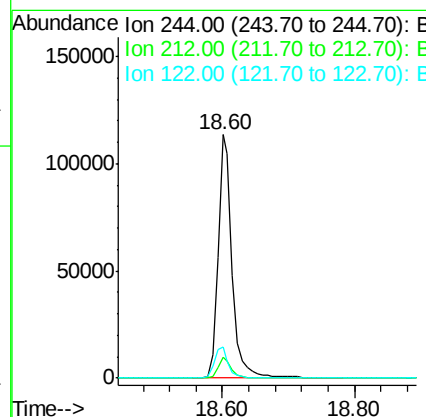
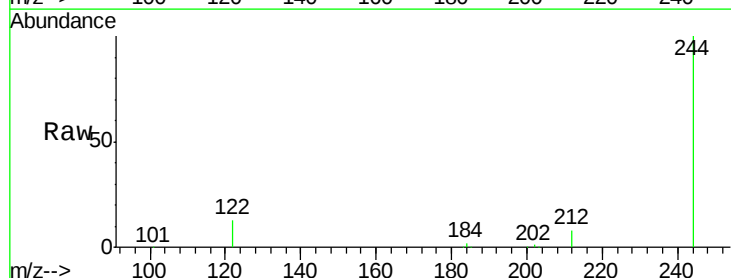
Instrument :
 BNA_F
 ClientSampleId :

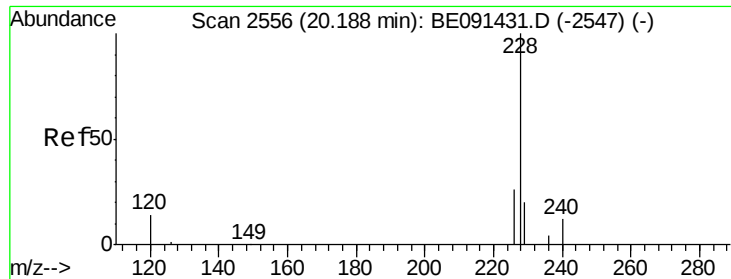
Tgt Ion: 202 Resp: 17569
 Ion Ratio Lower Upper
 202 100
 200 21.3 16.9 25.3
 203 17.4 13.9 20.9



#21
 Terphenyl-d14
 Concen: 4.34 ng
 RT: 18.60 min Scan# 2370
 Delta R.T. -0.01 min
 Lab File: BE091445.D
 Acq: 3 Mar 2016 5:30

Tgt Ion: 244 Resp: 170701
 Ion Ratio Lower Upper
 244 100
 212 8.4 7.2 10.8
 122 12.8 11.1 16.7





#22

Benzo(a)anthracene

Concen: 0.25 ng

RT: 20.18 min Scan# 2555

Delta R.T. -0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

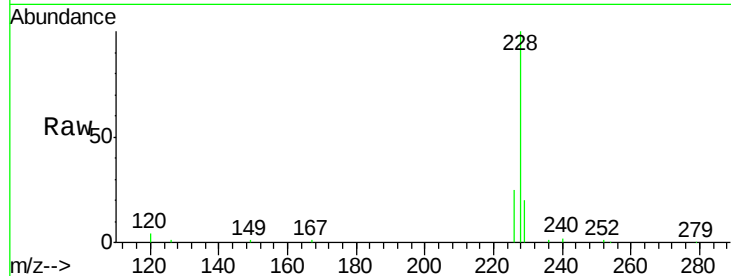
Tgt Ion:228 Resp: 17109

Ion Ratio Lower Upper

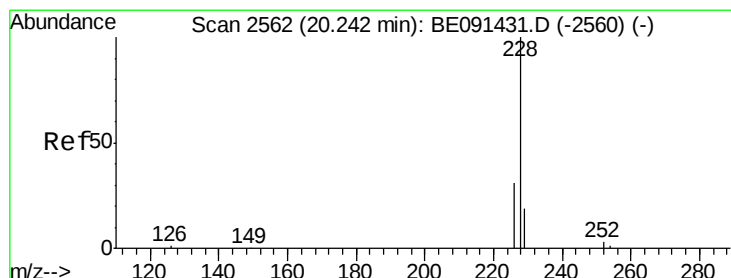
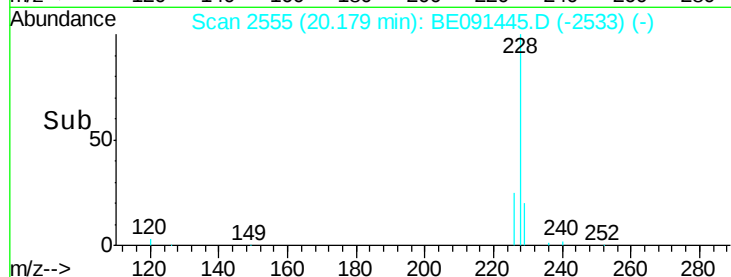
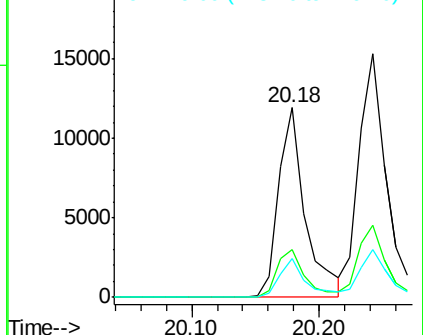
228 100

226 25.2 20.8 31.2

229 20.3 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



#23

Chrysene

Concen: 0.26 ng

RT: 20.24 min Scan# 2562

Delta R.T. -0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

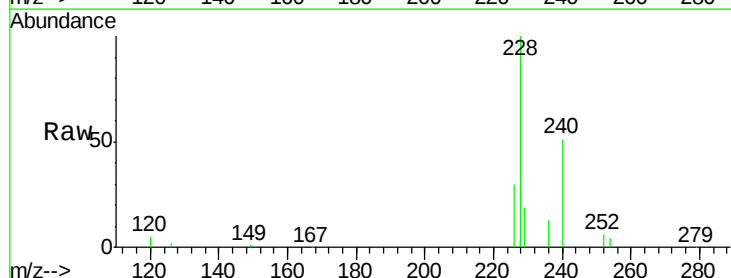
Tgt Ion:228 Resp: 23421

Ion Ratio Lower Upper

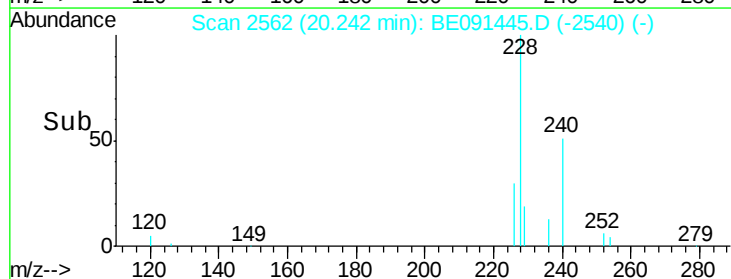
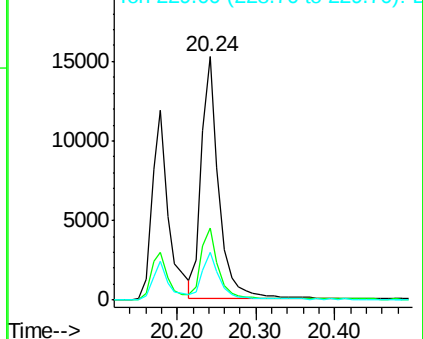
228 100

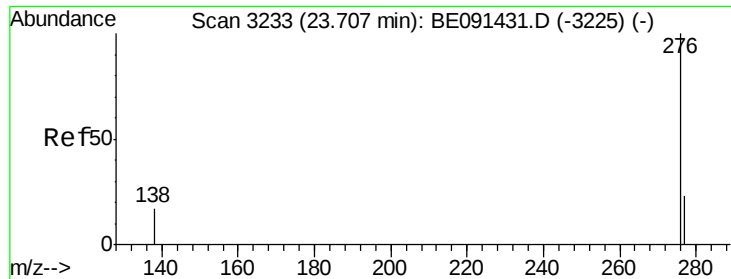
226 29.8 24.1 36.1

229 19.5 15.4 23.0



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

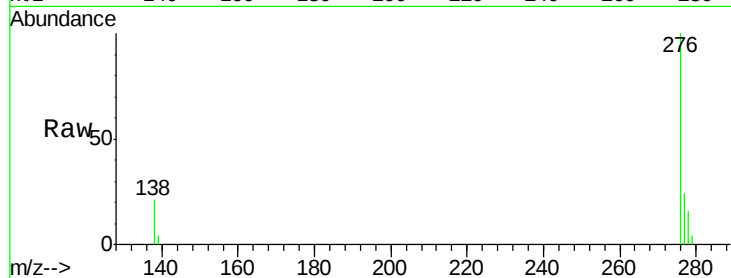




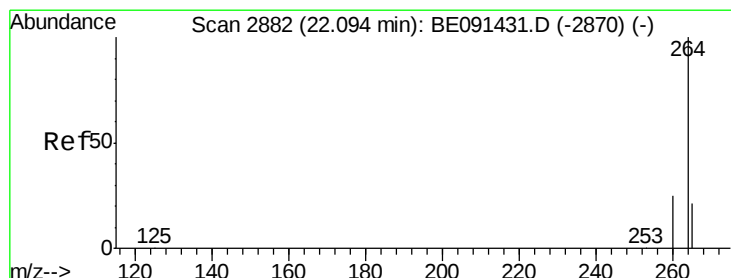
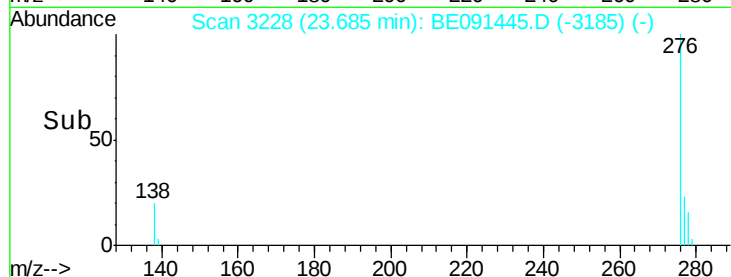
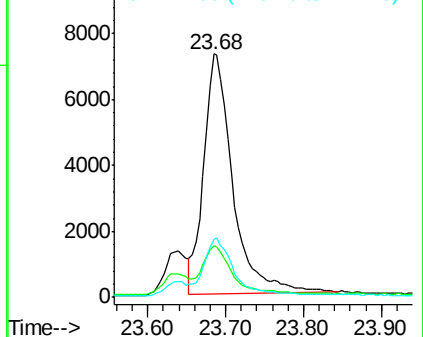
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.21 ng
RT: 23.68 min Scan# 3228
Delta R.T. -0.00 min
Lab File: BE091445.D
Acq: 3 Mar 2016 5:30

Instrument :
BNA_F
ClientSampleId :

Tgt Ion: 276 Resp: 18884
Ion Ratio Lower Upper
276 100
138 20.2 16.3 24.5
277 24.4 18.1 27.1

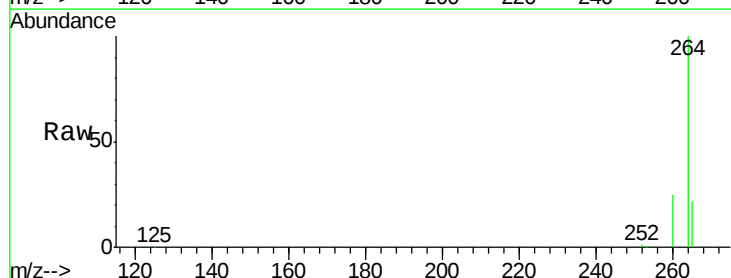


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

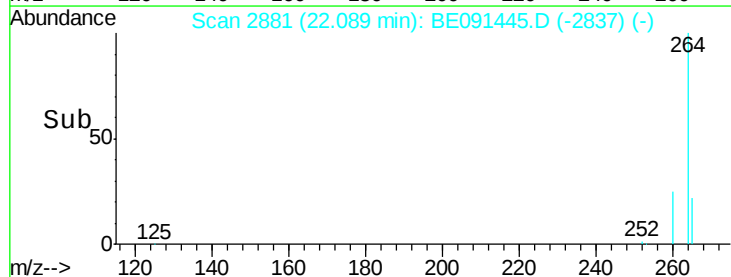
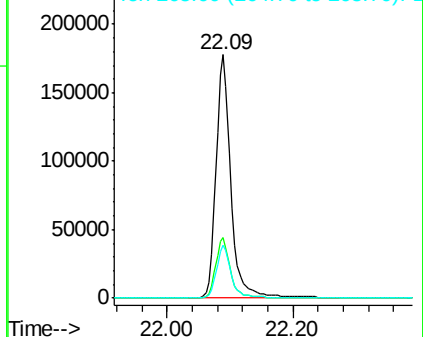


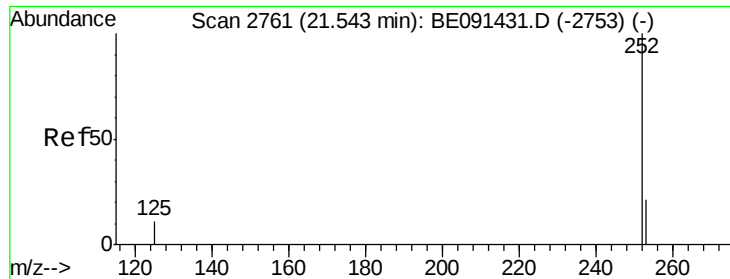
#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2881
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 3 Mar 2016 5:30

Tgt Ion: 264 Resp: 289403
Ion Ratio Lower Upper
264 100
260 24.7 20.2 30.2
265 22.0 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

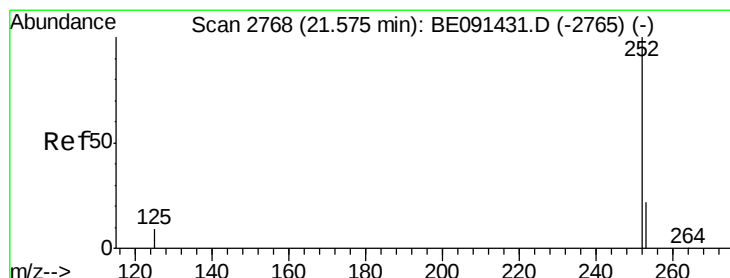
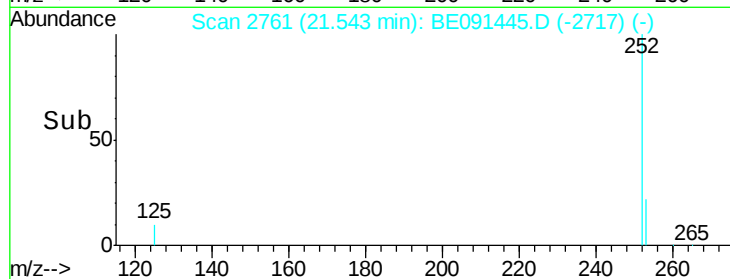
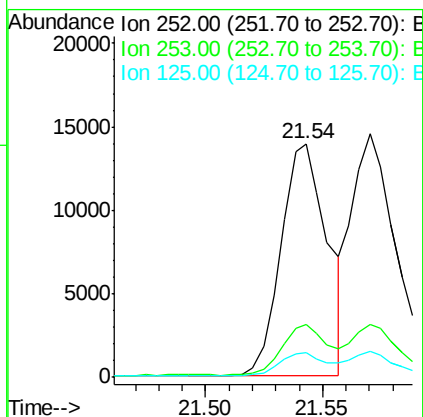
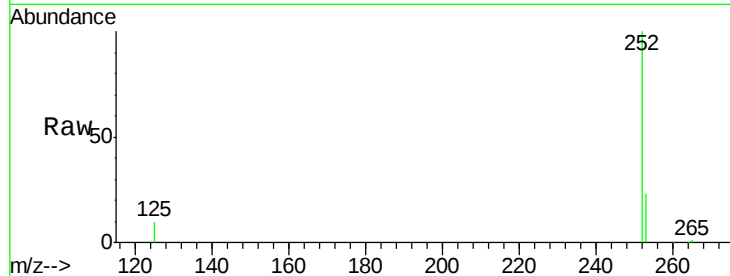




#26
Benzo(b)fluoranthene
Concen: 0.24 ng
RT: 21.54 min Scan# 2761
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 3 Mar 2016 5:30

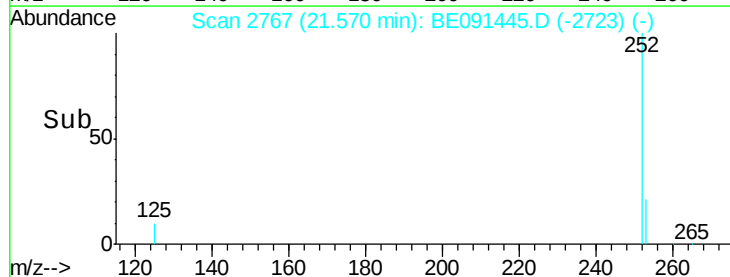
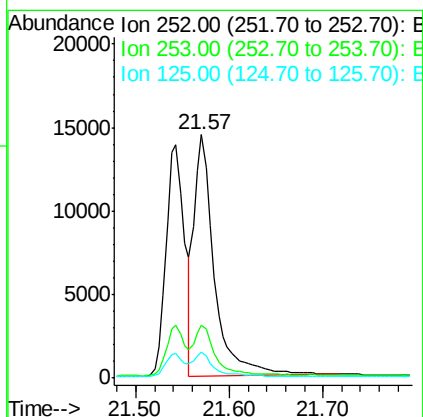
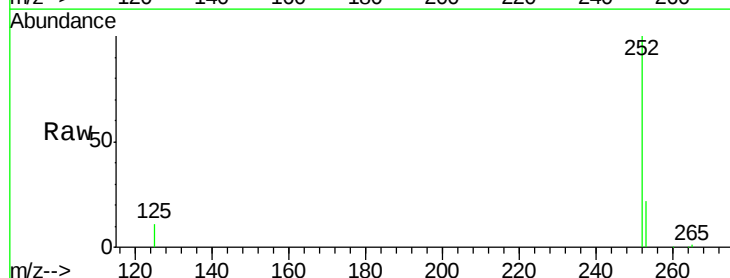
Instrument :
BNA_F
ClientSampleId :

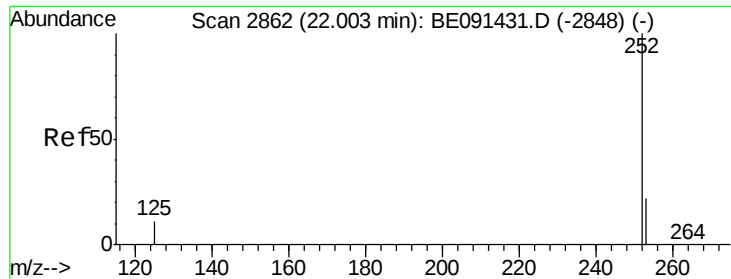
Tgt Ion: 252 Resp: 19132
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.6
125 10.4 8.6 12.8



#27
Benzo(k)fluoranthene
Concen: 0.24 ng
RT: 21.57 min Scan# 2767
Delta R.T. 0.00 min
Lab File: BE091445.D
Acq: 3 Mar 2016 5:30

Tgt Ion: 252 Resp: 21721
Ion Ratio Lower Upper
252 100
253 21.9 17.9 26.9
125 10.6 8.4 12.6





#28

Benzo(a)pyrene

Concen: 0.23 ng

RT: 21.99 min Scan# 2860

Delta R.T. -0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :

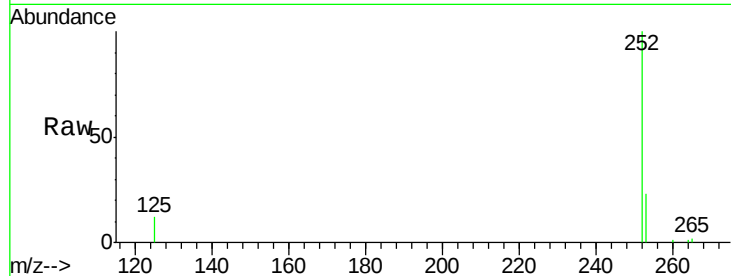
Tgt Ion: 252 Resp: 17560

Ion Ratio Lower Upper

252 100

253 22.8 18.8 28.2

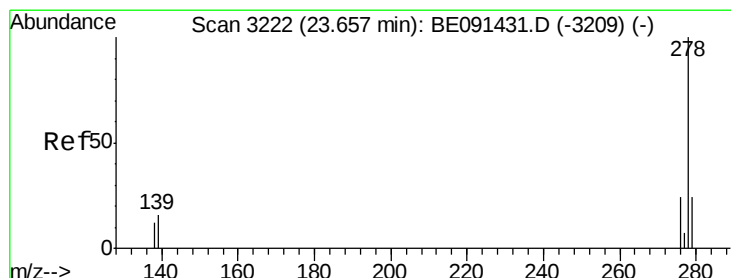
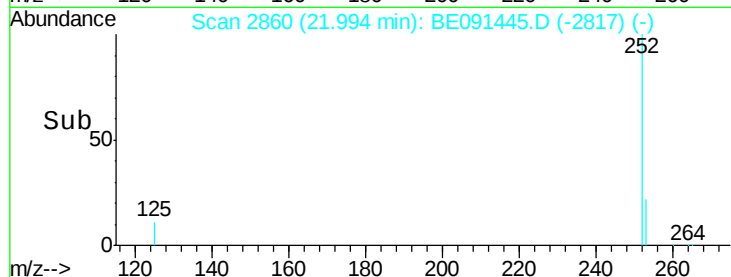
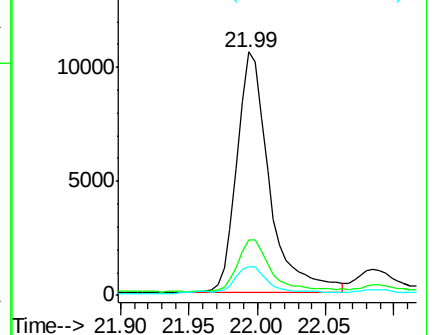
125 12.0 9.3 13.9



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



#29

Dibenzo(a,h)anthracene

Concen: 0.21 ng

RT: 23.64 min Scan# 3218

Delta R.T. 0.00 min

Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

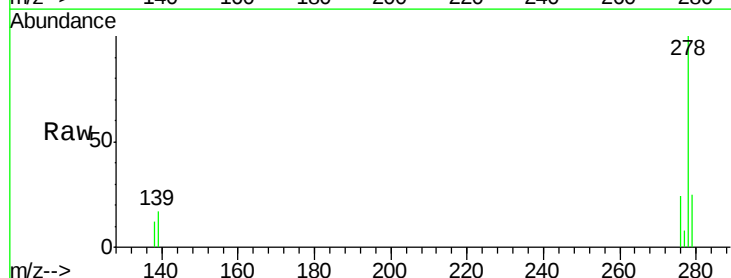
Tgt Ion: 278 Resp: 17804

Ion Ratio Lower Upper

278 100

139 17.2 13.4 20.0

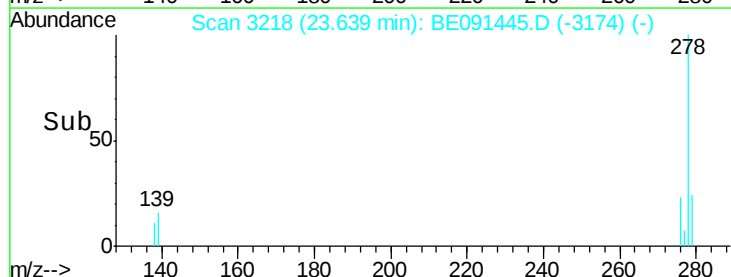
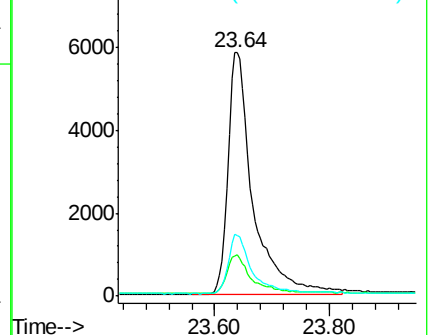
279 24.9 19.3 28.9

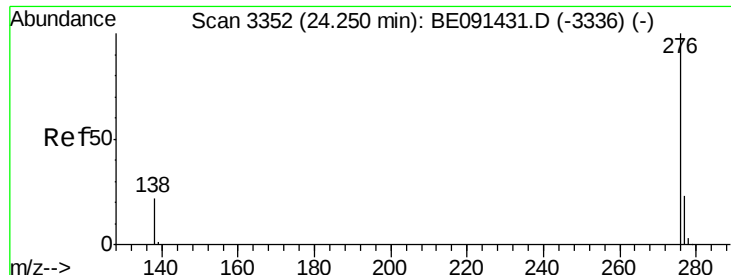


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Benzo(g,h,i)perylene

Concen: 0.22 ng

RT: 24.24 min Scan# 3350

Delta R.T. 0.00 min

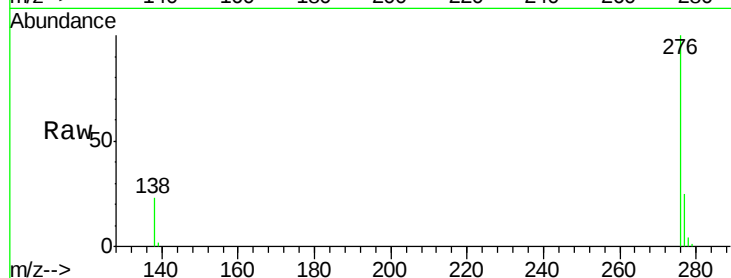
Lab File: BE091445.D

Acq: 3 Mar 2016 5:30

Instrument :

BNA_F

ClientSampleId :



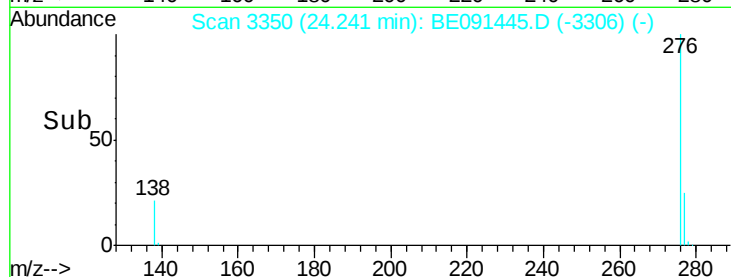
Tgt Ion: 276 Resp: 19957

Ion Ratio Lower Upper

276 100

277 25.4 18.6 28.0

138 22.6 18.6 28.0



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

