

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030216\
 Data File : BE091443.D
 Acq On : 3 Mar 2016 4:16
 Operator : UM/IZ
 Sample : MDL-01-S
 Misc : 0.16PPM
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 03 07:18:56 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	29639	5.00	ng	0.00
4) Naphthalene-d8	9.54	136	130046	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	80114	5.00	ng	0.00
13) Phenanthrene-d10	16.08	188	197965	5.00	ng	0.00
19) Chrysene-d12	20.21	240	260032	5.00	ng	0.00
25) Perylene-d12	22.09	264	272339	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	34723	4.79	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	96003	4.36	ng	-0.01
21) Terphenyl-d14	18.60	244	169333	4.54	ng	-0.02

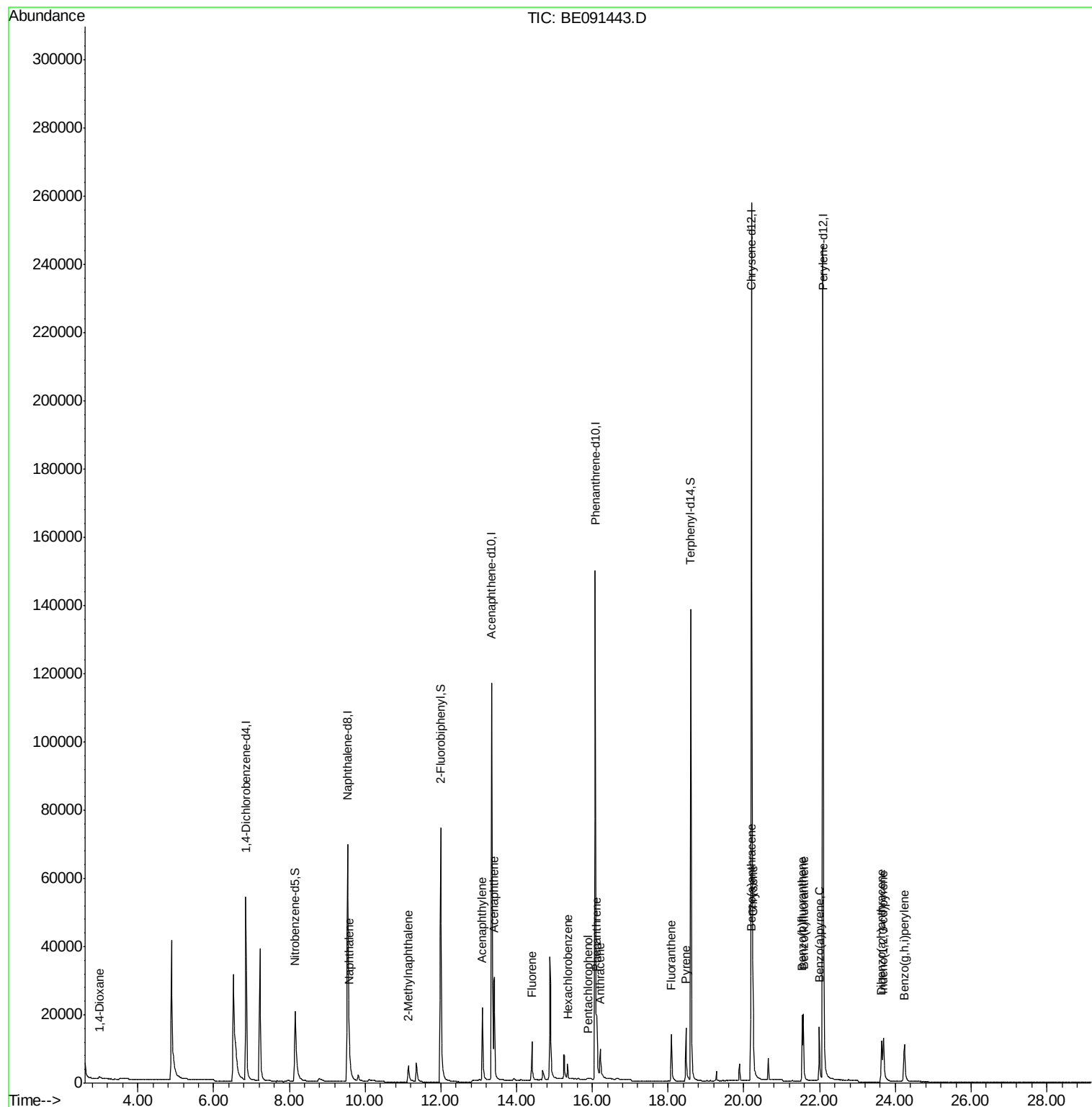
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.98	88	1001	0.33	ng	# 86
6) Naphthalene	9.58	128	9611	0.30	ng	97
7) 2-Methylnaphthalene	11.14	142	5466	0.29	ng	97
10) Acenaphthylene	13.09	152	36135	0.26	ng	99
11) Acenaphthene	13.41	154	6986	0.28	ng	99
12) Fluorene	14.40	166	8828	0.27	ng	99
14) Hexachlorobenzene	15.34	284	3107	0.30	ng	98
15) Pentachlorophenol	15.88	266	509	0.32	ng	95
16) Phenanthrene	16.12	178	17084	0.29	ng	99
17) Anthracene	16.21	178	14103	0.27	ng	99
18) Fluoranthene	18.09	202	17705	0.28	ng	99
20) Pyrene	18.47	202	18103	0.28	ng	99
22) Benzo(a)anthracene	20.18	228	17584	0.27	ng	100
23) Chrysene	20.24	228	23997	0.28	ng	99
24) Indeno(1,2,3-cd)pyrene	23.69	276	20361	0.24	ng	99
26) Benzo(b)fluoranthene	21.54	252	20742	0.28	ng	99
27) Benzo(k)fluoranthene	21.57	252	22046	0.26	ng	100
28) Benzo(a)pyrene	21.99	252	19120	0.27	ng	100
29) Dibenzo(a,h)anthracene	23.64	278	19134	0.24	ng	99
30) Benzo(g,h,i)perylene	24.24	276	21251	0.25	ng	98

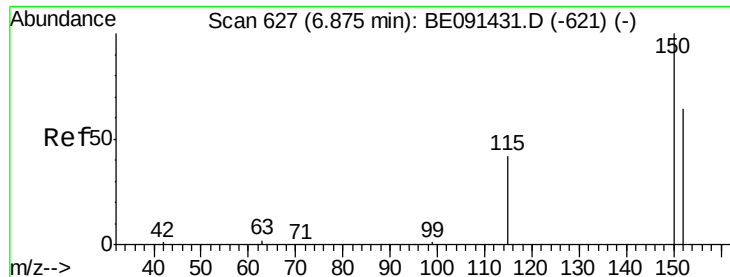
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091443.D

Acq: 3 Mar 2016 4:16

Instrument :

BNA_F

ClientSampleId :

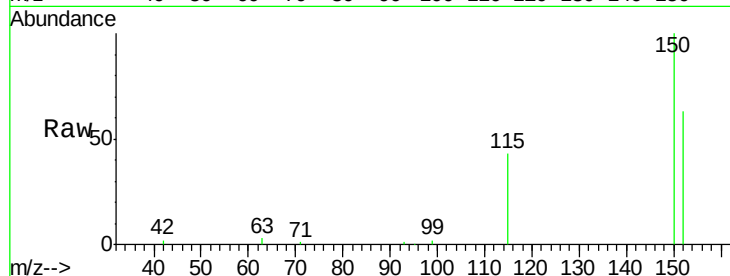
Tgt Ion:152 Resp: 29639

Ion Ratio Lower Upper

152 100

150 158.4 122.1 183.1

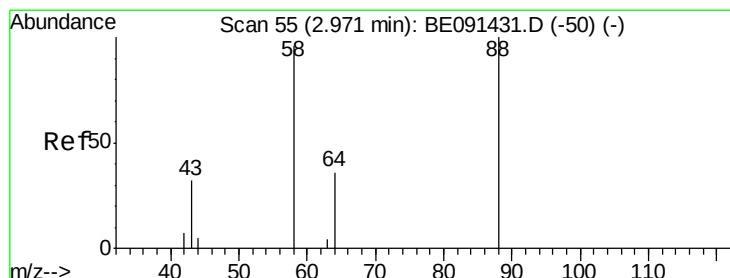
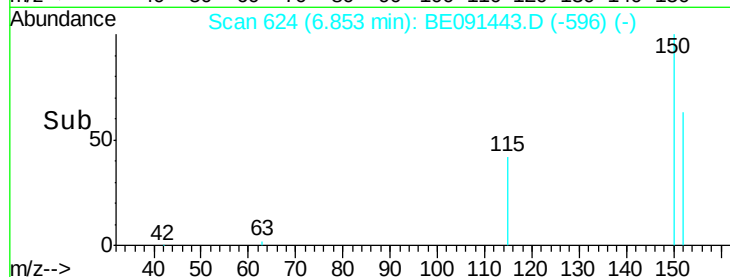
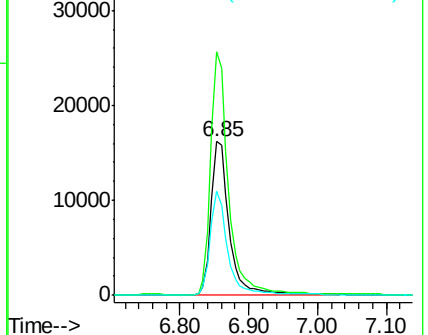
115 67.4 50.3 75.5



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: 0.33 ng

RT: 2.98 min Scan# 57

Delta R.T. 0.01 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

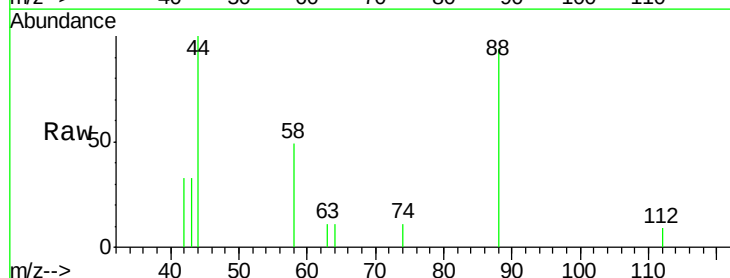
Tgt Ion: 88 Resp: 1001

Ion Ratio Lower Upper

88 100

58 96.3 88.8 133.2

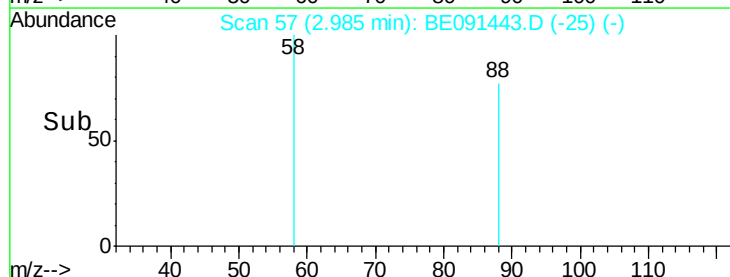
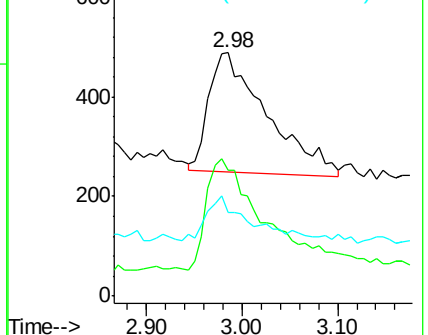
43 28.3 30.2 45.4#

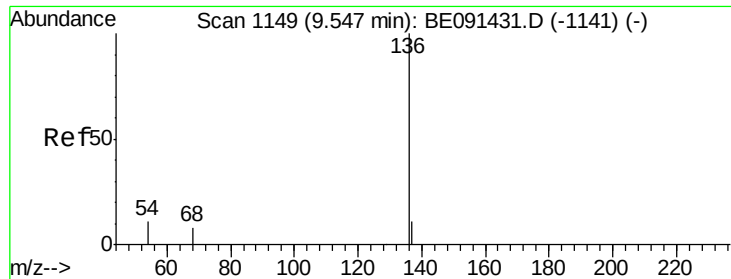


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: BE091443.D

Acq: 3 Mar 2016 4:16

Instrument :

BNA_F

ClientSampleId :

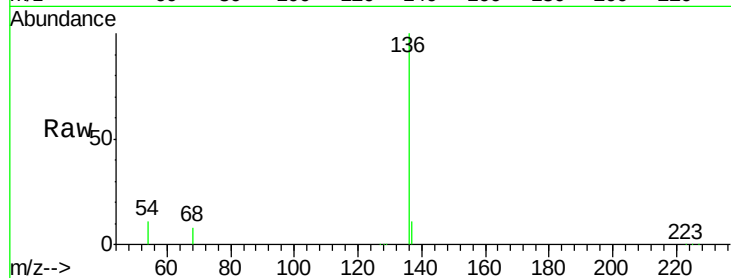
Tgt Ion:136 Resp: 130046

Ion Ratio Lower Upper

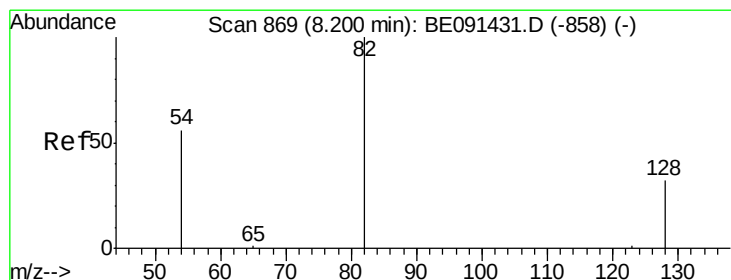
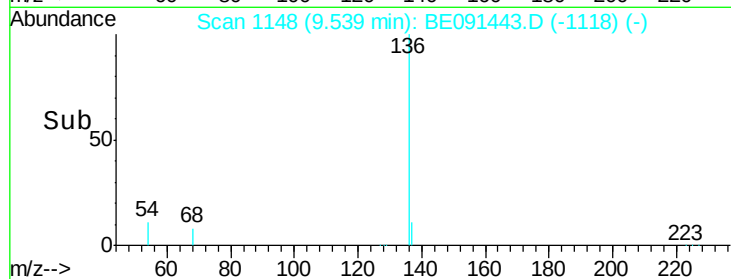
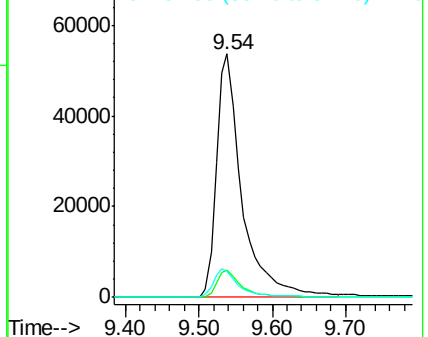
136 100

137 11.2 9.0 13.4

54 10.9 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: 4.79 ng

RT: 8.15 min Scan# 858

Delta R.T. -0.03 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

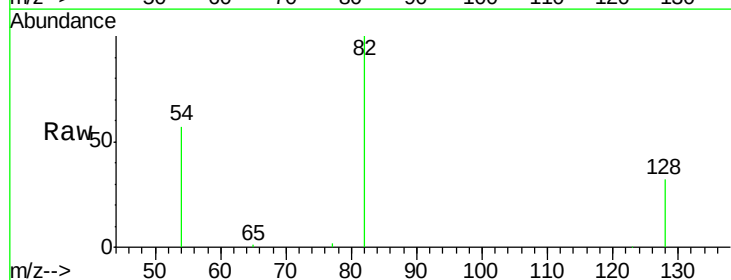
Tgt Ion: 82 Resp: 34723

Ion Ratio Lower Upper

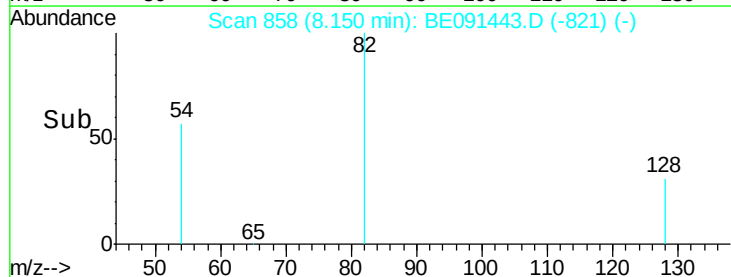
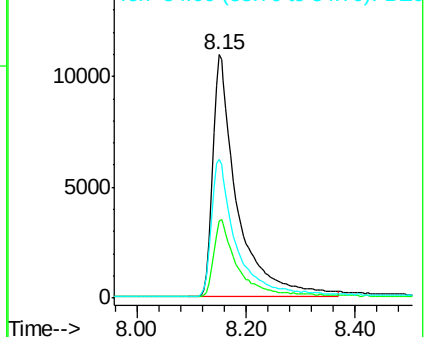
82 100

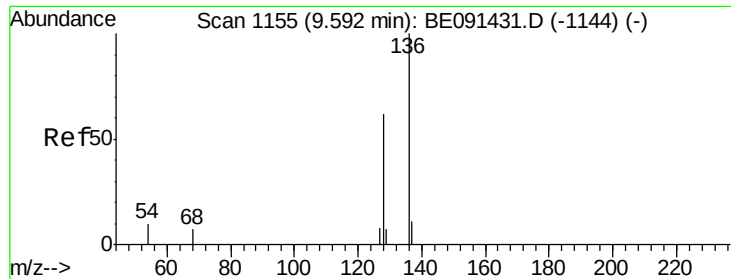
128 31.8 31.4 47.0

54 57.1 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: 0.30 ng

RT: 9.58 min Scan# 1154

Delta R.T. 0.01 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

Instrument :

BNA_F

ClientSampleId :

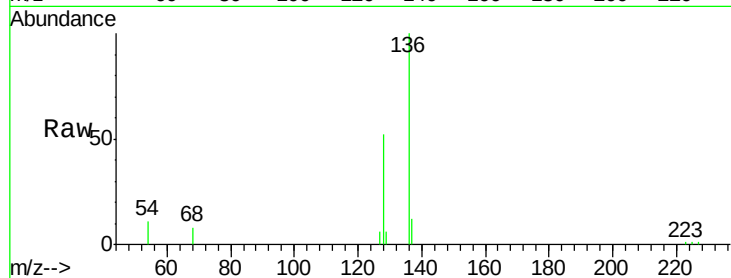
Tgt Ion:128 Resp: 9611

Ion Ratio Lower Upper

128 100

129 12.2 9.4 14.0

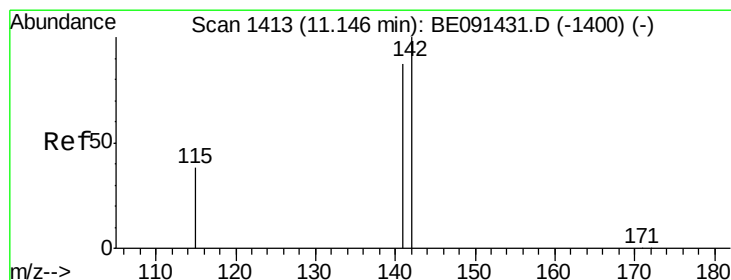
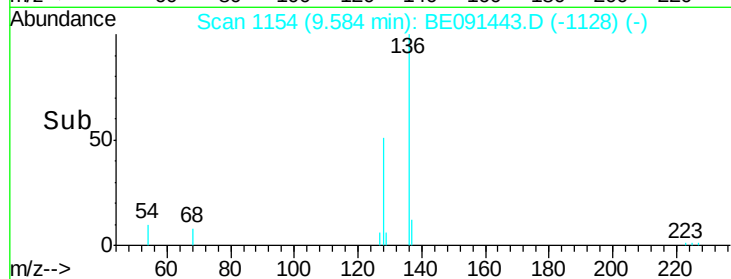
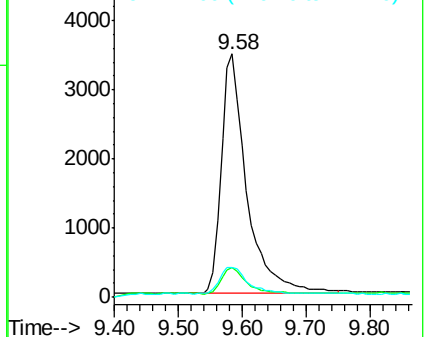
127 12.4 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.29 ng

RT: 11.14 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

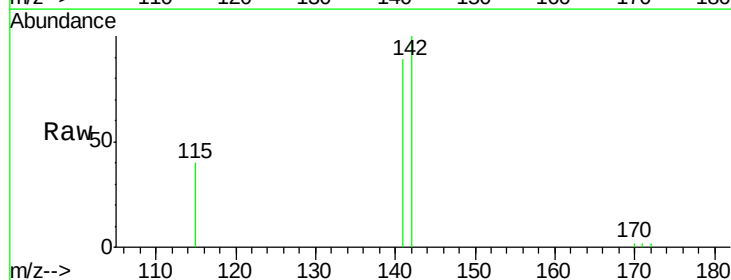
Tgt Ion:142 Resp: 5466

Ion Ratio Lower Upper

142 100

141 89.2 68.8 103.2

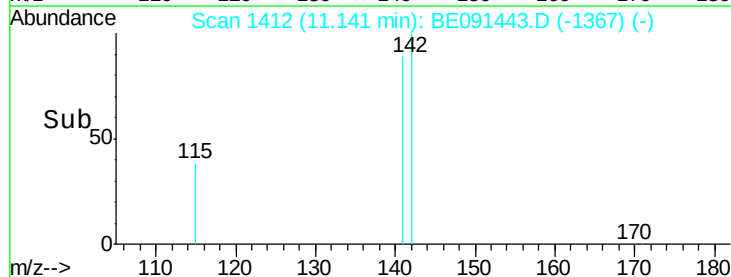
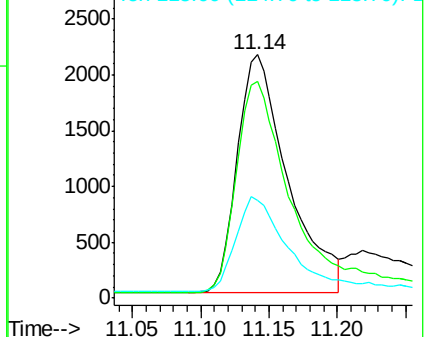
115 40.3 31.0 46.6

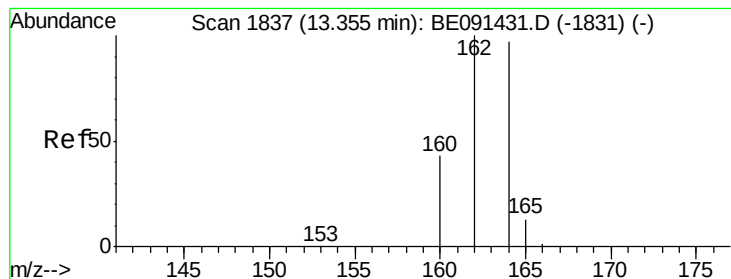


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1836

Delta R.T. 0.01 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

Instrument :

BNA_F

ClientSampleId :

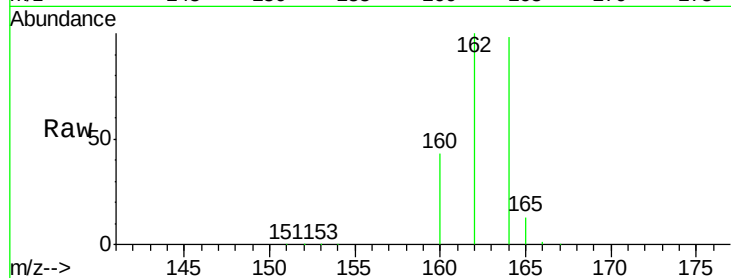
Tgt Ion:164 Resp: 80114

Ion Ratio Lower Upper

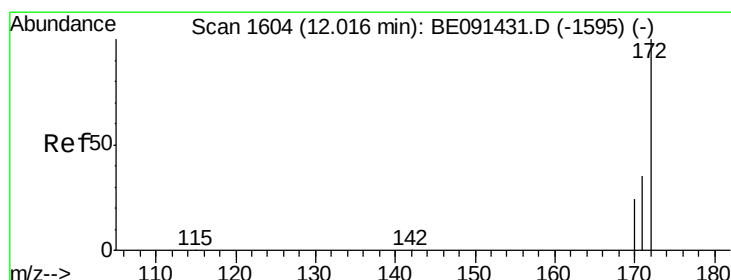
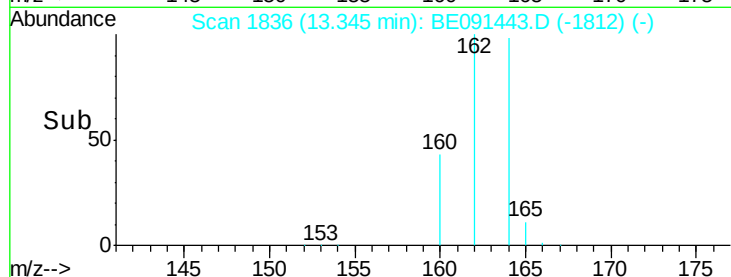
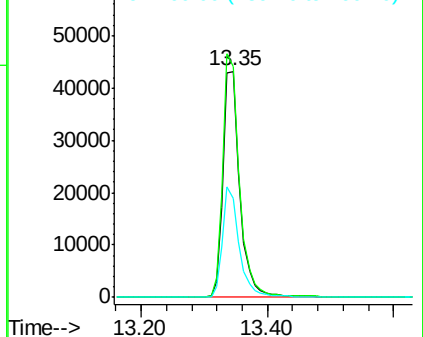
164 100

162 101.9 83.4 125.0

160 43.6 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: 4.36 ng

RT: 11.99 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

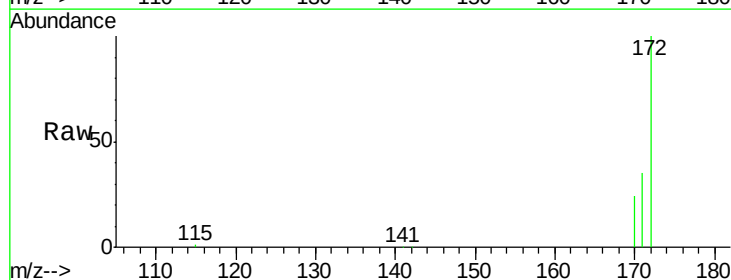
Tgt Ion:172 Resp: 96003

Ion Ratio Lower Upper

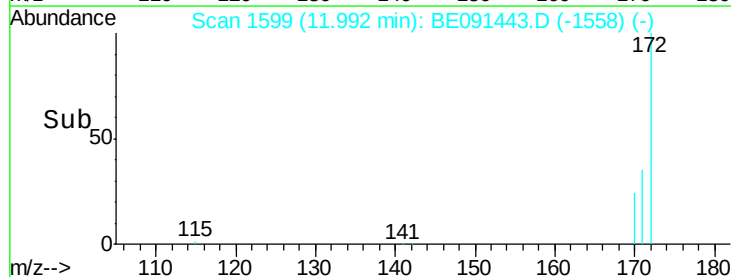
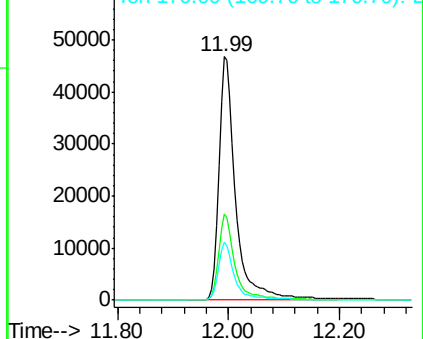
172 100

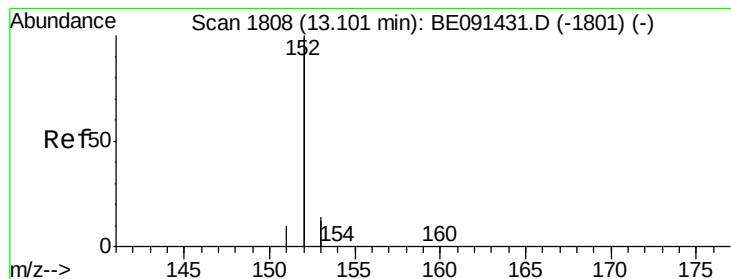
171 35.1 27.8 41.8

170 23.6 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: 0.26 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.00 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

Instrument :

BNA_F

ClientSampleId :

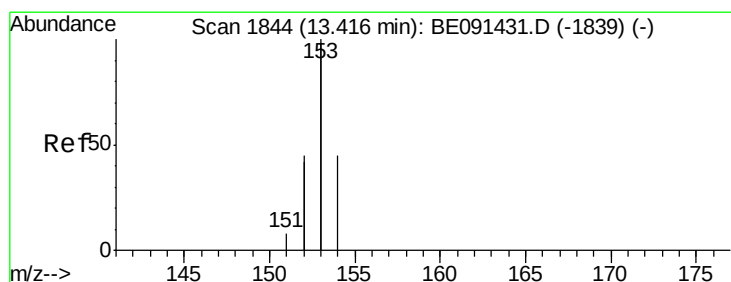
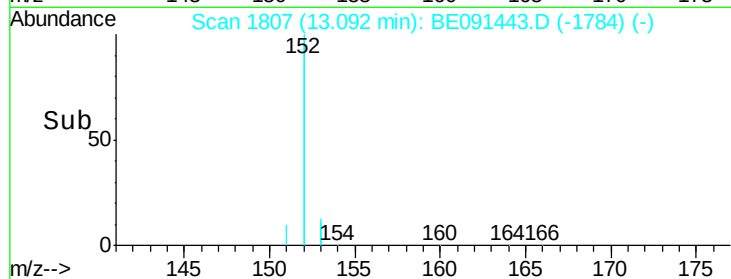
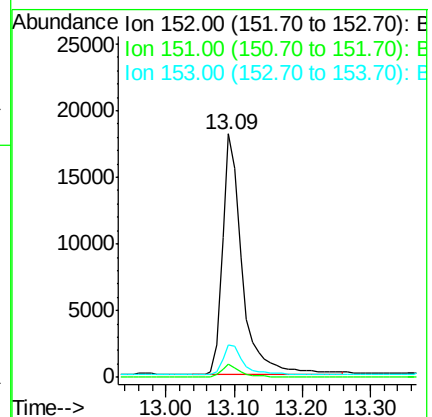
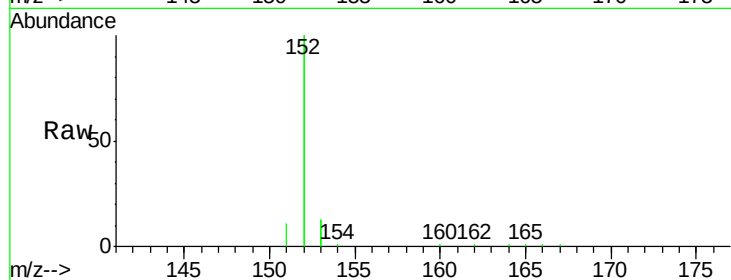
Tgt Ion:152 Resp: 36135

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

153 12.5 10.4 15.6



#11

Acenaphthene

Concen: 0.28 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

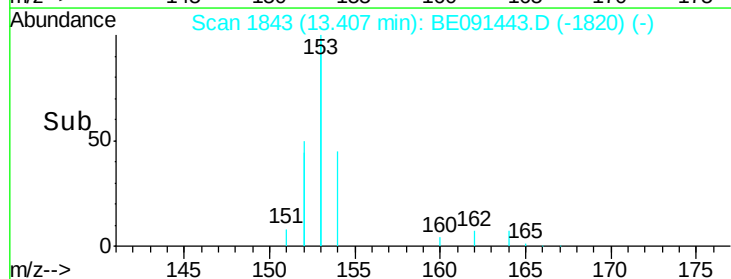
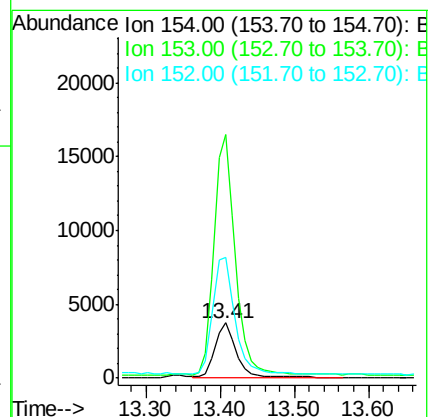
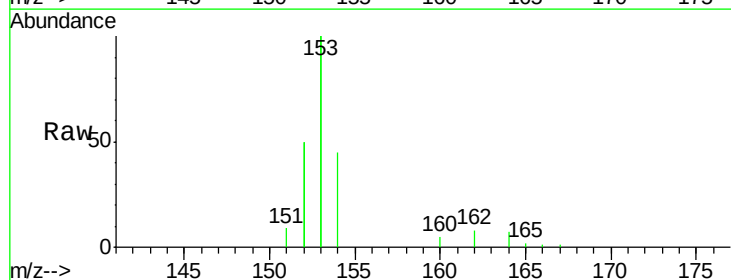
Tgt Ion:154 Resp: 6986

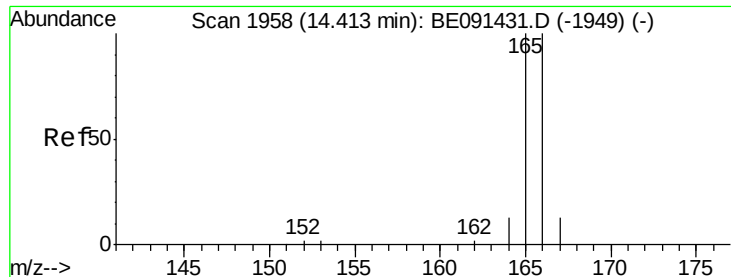
Ion Ratio Lower Upper

154 100

153 454.7 362.3 543.5

152 232.8 182.6 273.8





#12

Fluorene

Concen: 0.27 ng

RT: 14.40 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

Instrument :

BNA_F

ClientSampleId :

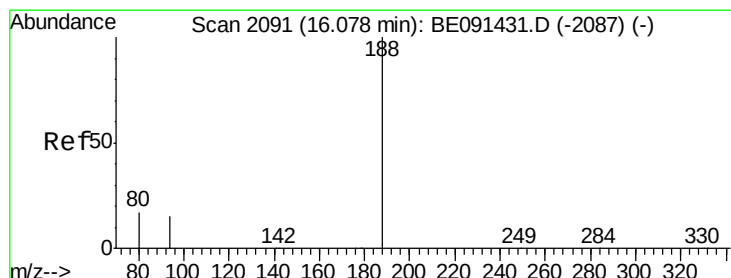
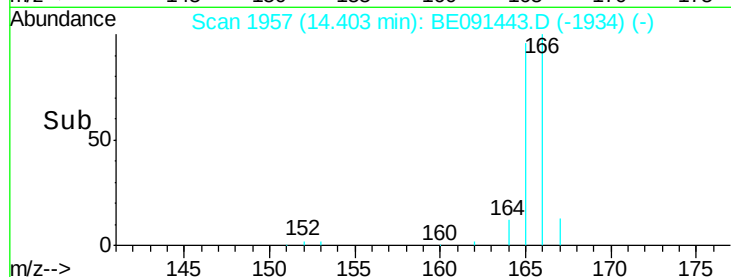
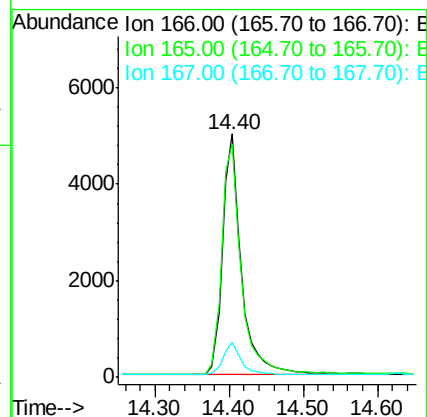
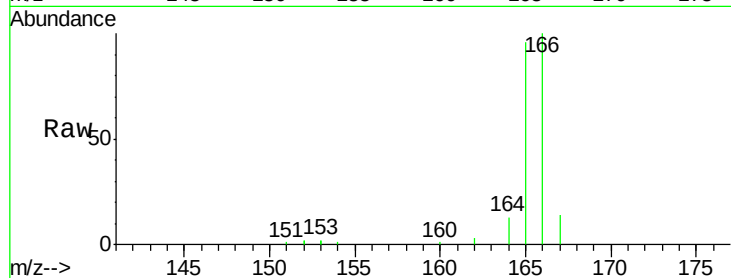
Tgt Ion:166 Resp: 8828

Ion Ratio Lower Upper

166 100

165 100.4 79.1 118.7

167 13.5 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: BE091443.D

Acq: 3 Mar 2016 4:16

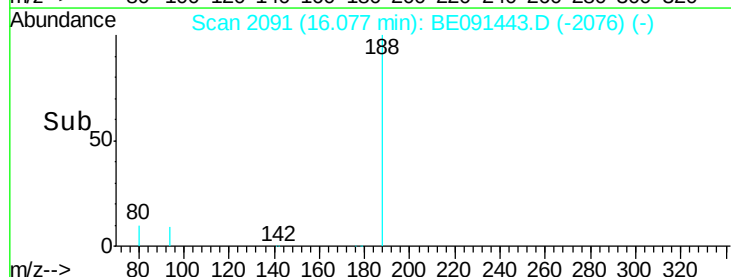
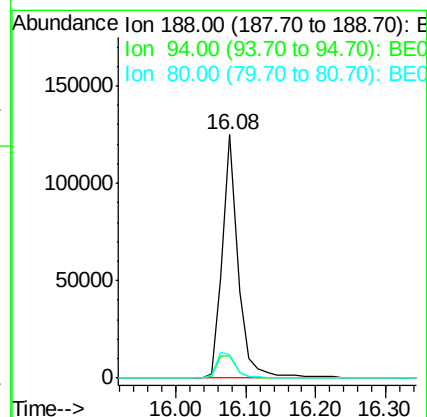
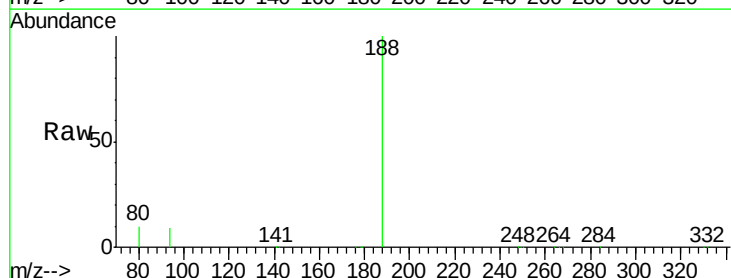
Tgt Ion:188 Resp: 197965

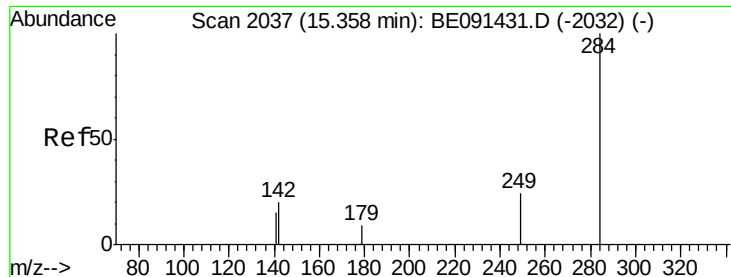
Ion Ratio Lower Upper

188 100

94 9.2 7.0 10.6

80 9.9 7.5 11.3

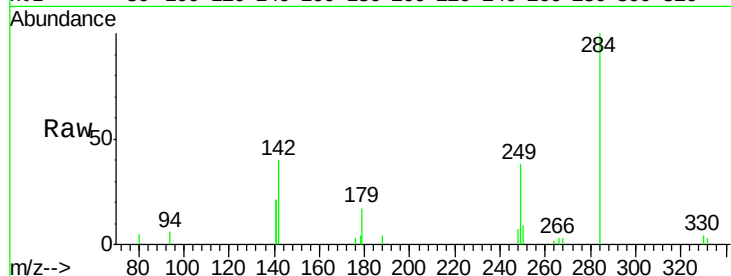




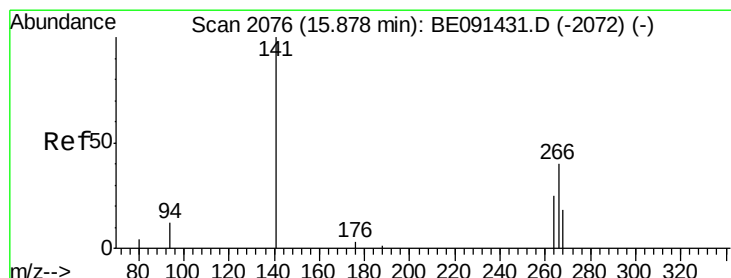
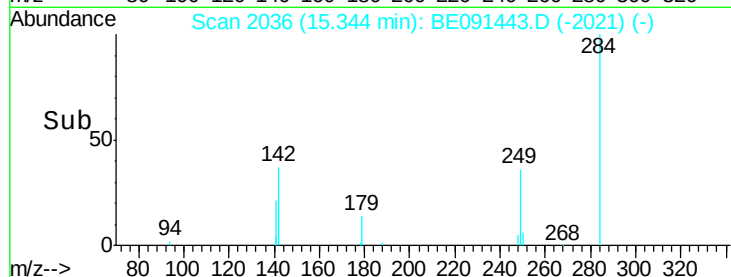
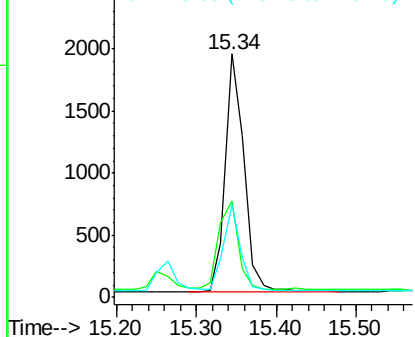
#14
Hexachlorobenzene
Concen: 0.30 ng
RT: 15.34 min Scan# 2036
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

Instrument :
BNA_F
ClientSampled :

Tgt Ion: 284 Resp: 3107
Ion Ratio Lower Upper
284 100
142 40.0 30.4 45.6
249 33.6 26.5 39.7

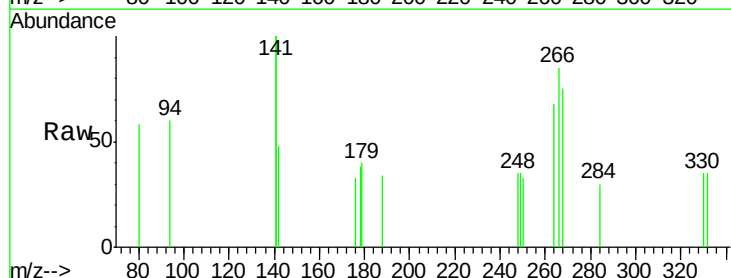


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

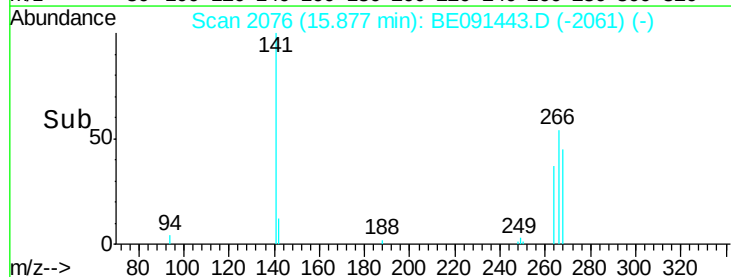
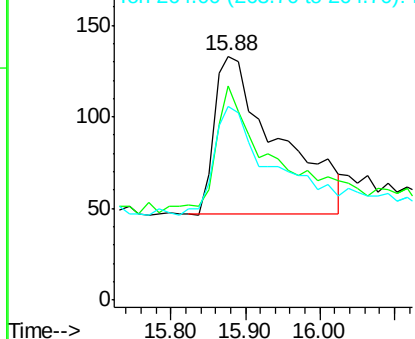


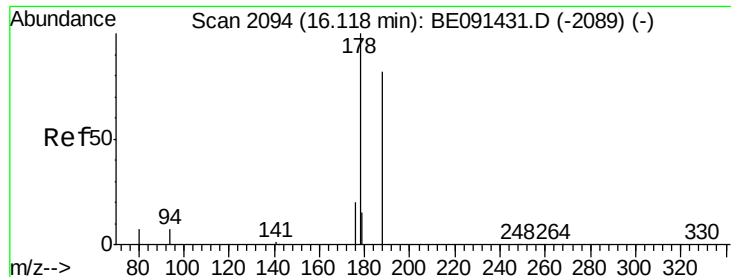
#15
Pentachlorophenol
Concen: 0.32 ng
RT: 15.88 min Scan# 2076
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

Tgt Ion: 266 Resp: 509
Ion Ratio Lower Upper
266 100
268 88.0 65.4 98.2
264 79.7 61.2 91.8



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 0.29 ng

RT: 16.12 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

Instrument :

BNA_F

ClientSampleId :

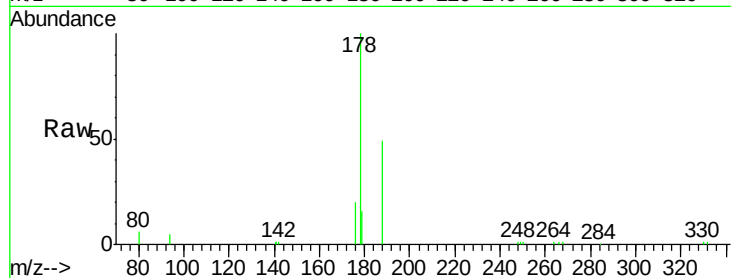
Tgt Ion:178 Resp: 17084

Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.4

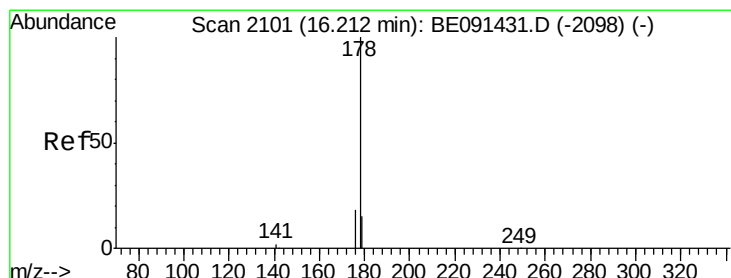
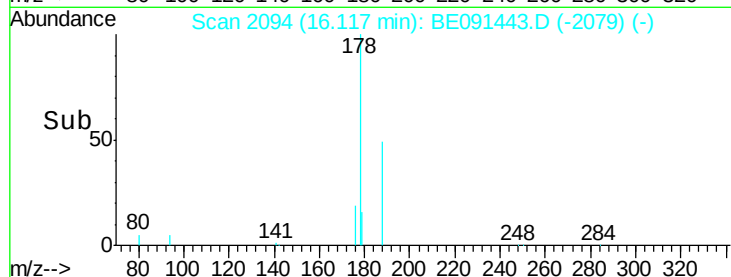
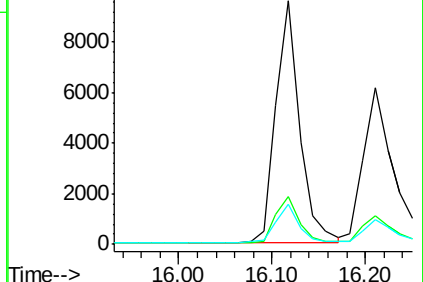
179 16.0 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#17

Anthracene

Concen: 0.27 ng

RT: 16.21 min Scan# 2101

Delta R.T. -0.00 min

Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

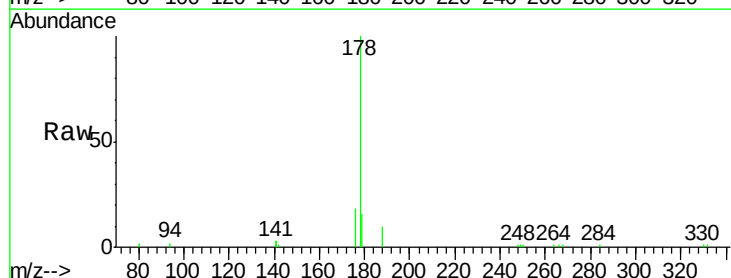
Tgt Ion:178 Resp: 14103

Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

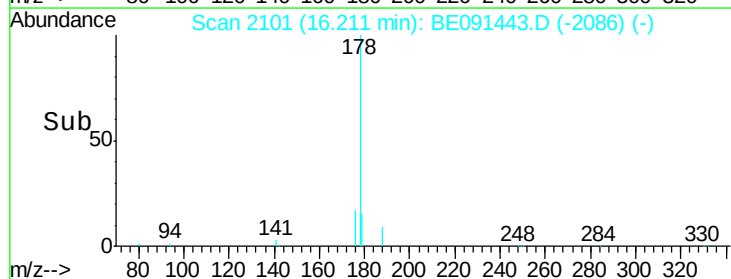
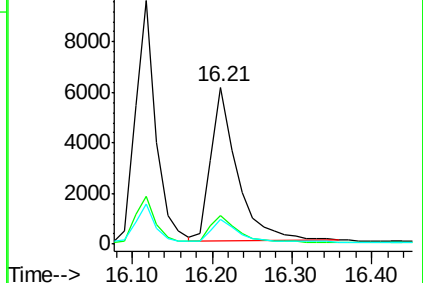
179 15.4 13.0 19.4

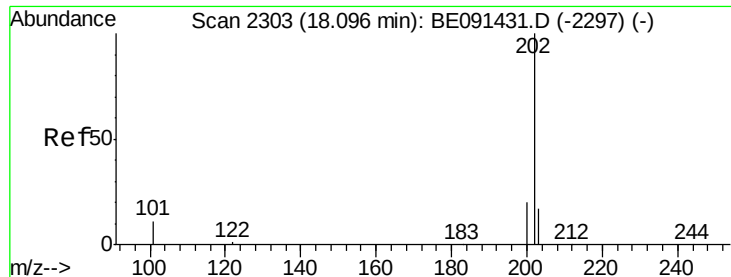


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

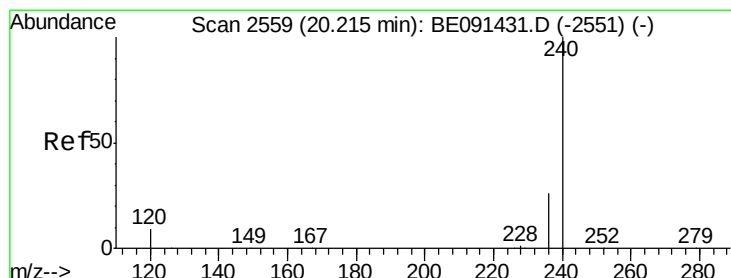
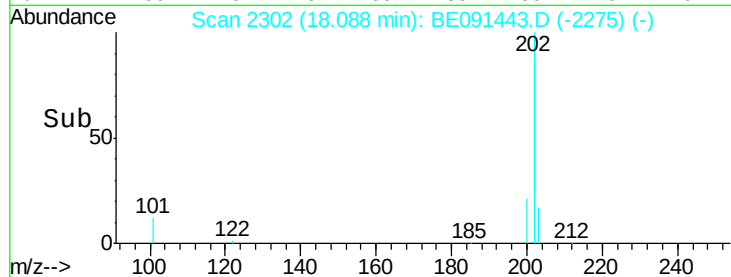
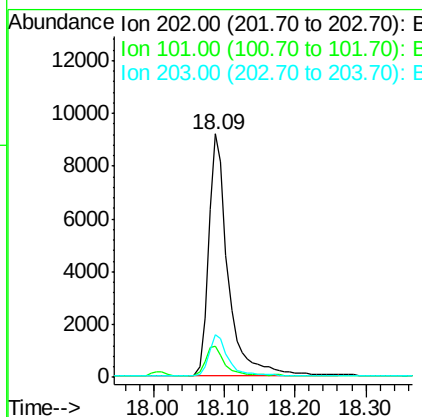
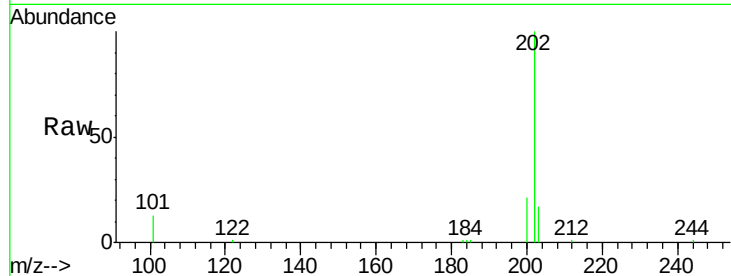




#18
 Fluoranthene
 Concen: 0.28 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. -0.00 min
 Lab File: BE091443.D
 Acq: 3 Mar 2016 4:16

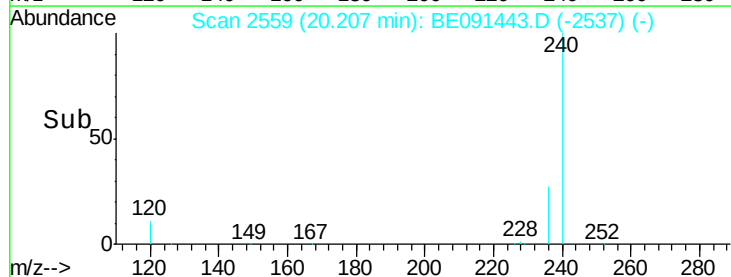
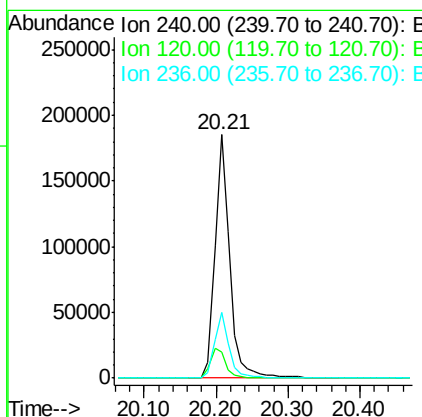
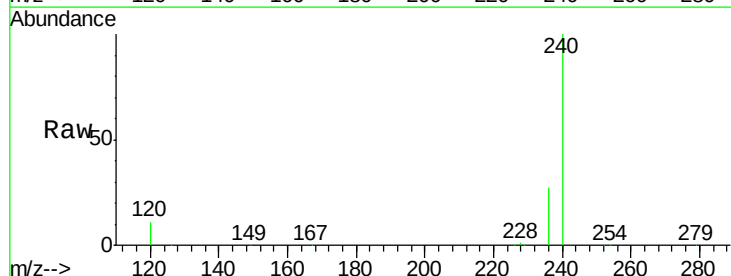
Instrument :
 BNA_F
 ClientSampleId :

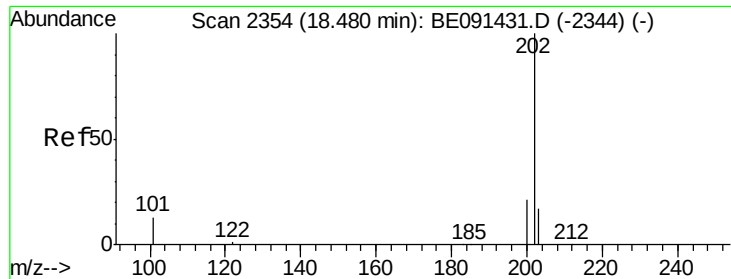
Tgt Ion: 202 Resp: 17705
 Ion Ratio Lower Upper
 202 100
 101 12.6 10.3 15.5
 203 17.0 13.8 20.6



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091443.D
 Acq: 3 Mar 2016 4:16

Tgt Ion: 240 Resp: 260032
 Ion Ratio Lower Upper
 240 100
 120 10.7 9.4 14.2
 236 26.8 21.5 32.3

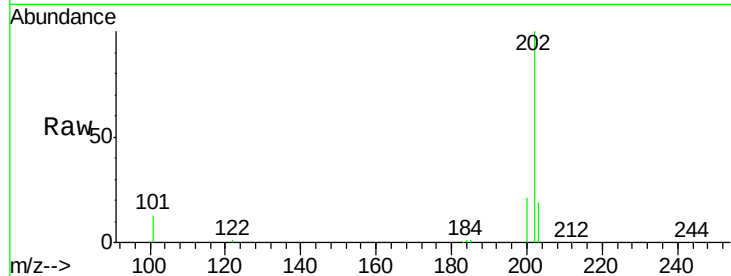




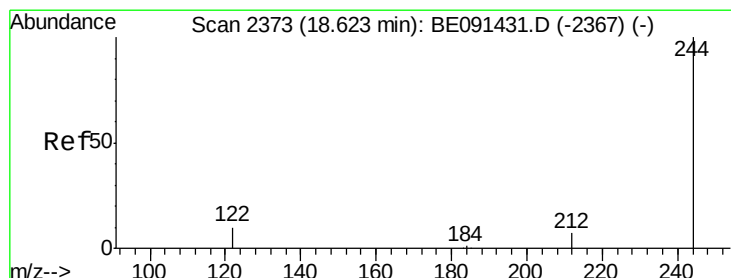
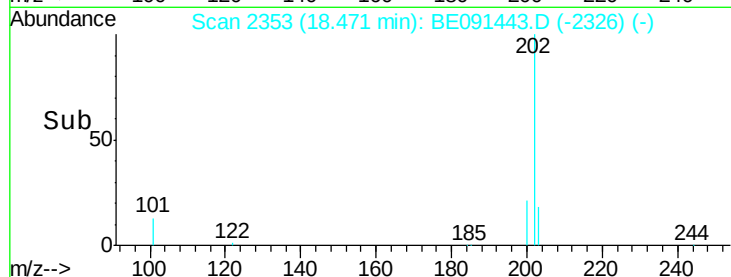
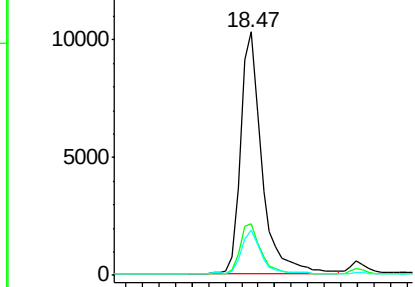
#20
 Pyrene
 Concen: 0.28 ng
 RT: 18.47 min Scan# 2353
 Delta R.T. -0.00 min
 Lab File: BE091443.D
 Acq: 3 Mar 2016 4:16

Instrument :
 BNA_F
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	18.0	13.9	20.9

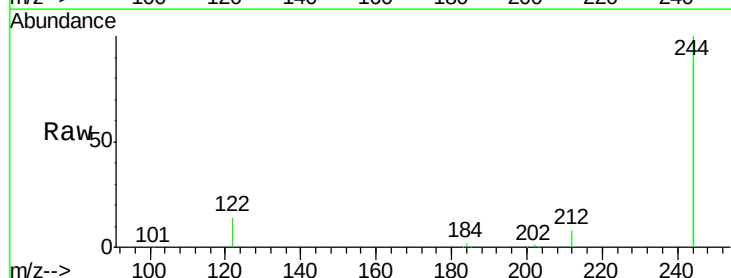


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

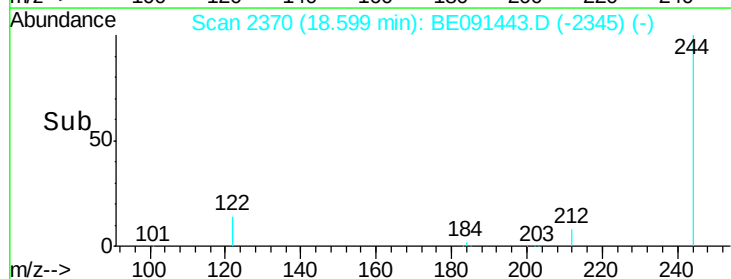
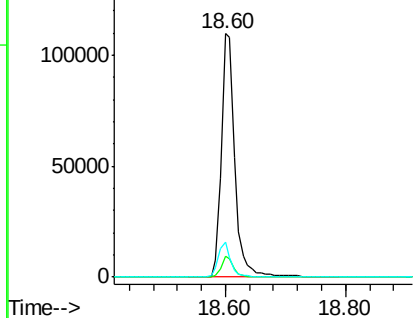


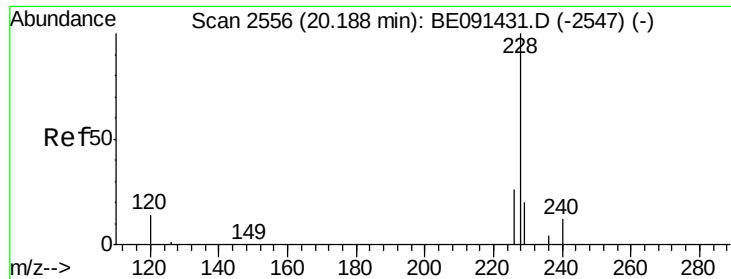
#21
 Terphenyl-d14
 Concen: 4.54 ng
 RT: 18.60 min Scan# 2370
 Delta R.T. -0.02 min
 Lab File: BE091443.D
 Acq: 3 Mar 2016 4:16

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.4	7.2	10.8
122	14.2	11.1	16.7



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

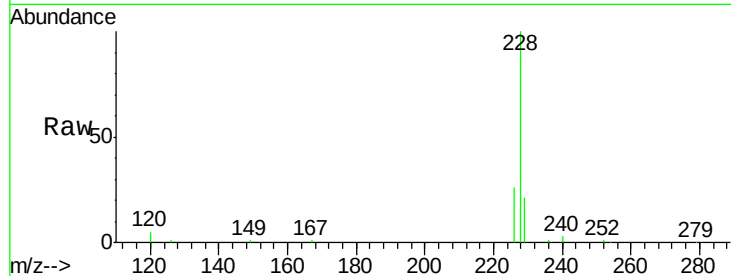




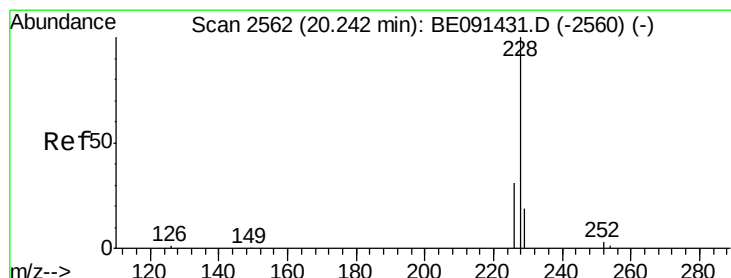
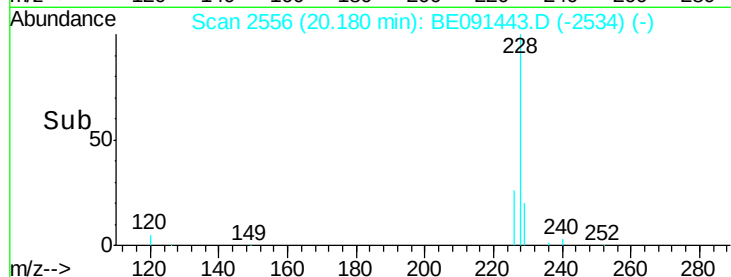
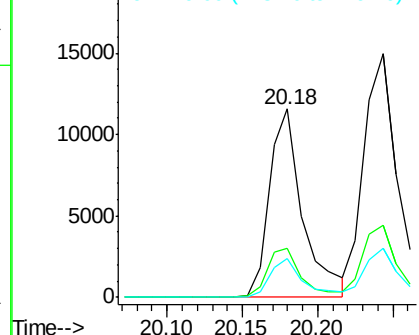
#22
Benzo(a)anthracene
Concen: 0.27 ng
RT: 20.18 min Scan# 2556
Delta R.T. 0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:228 Resp: 17584
Ion Ratio Lower Upper
228 100
226 25.9 20.8 31.2
229 20.5 16.6 25.0

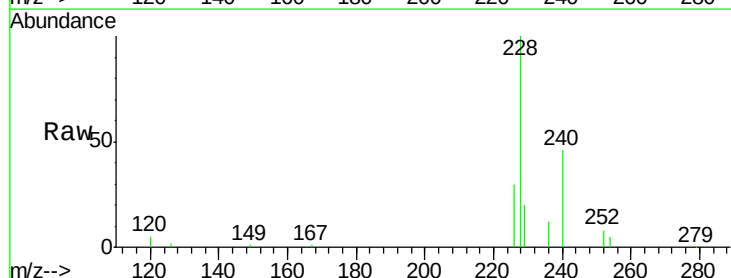


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

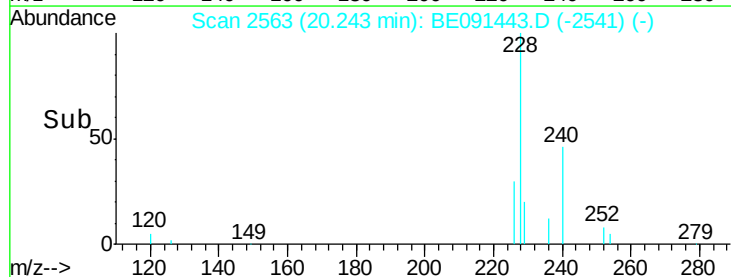
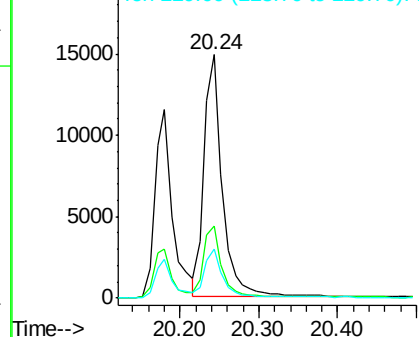


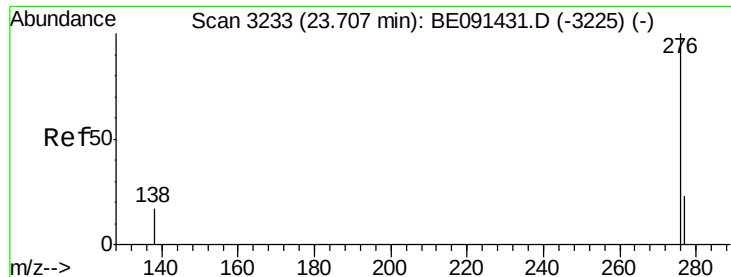
#23
Chrysene
Concen: 0.28 ng
RT: 20.24 min Scan# 2563
Delta R.T. 0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

Tgt Ion:228 Resp: 23997
Ion Ratio Lower Upper
228 100
226 29.8 24.1 36.1
229 19.9 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

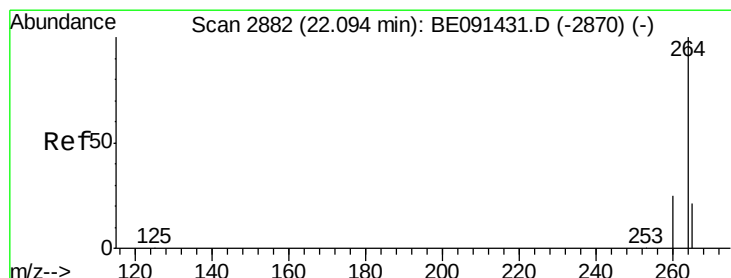
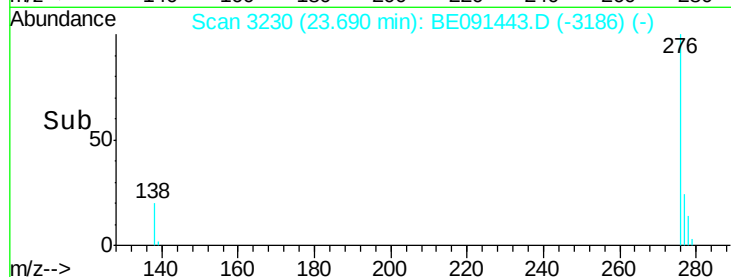
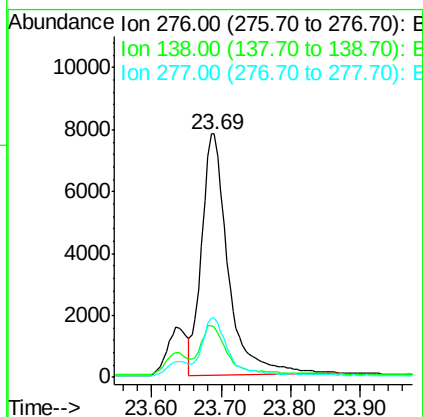
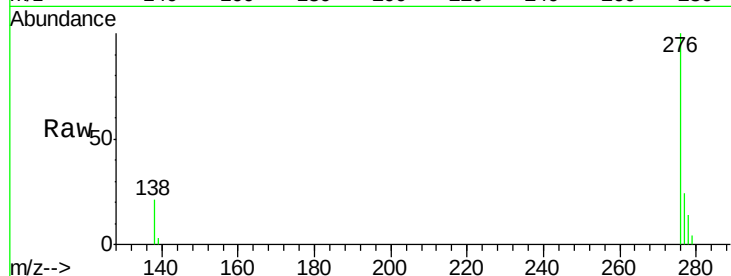




#24
Indeno(1,2,3-cd)pyrene
Concen: 0.24 ng
RT: 23.69 min Scan# 3230
Delta R.T. 0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

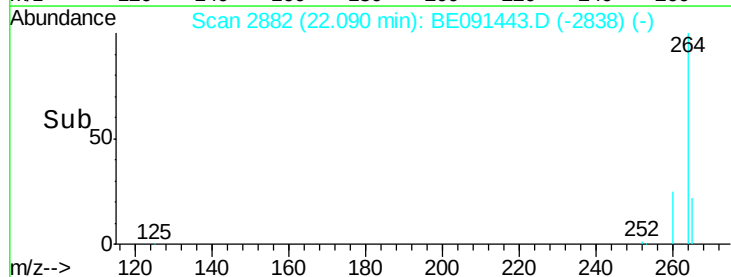
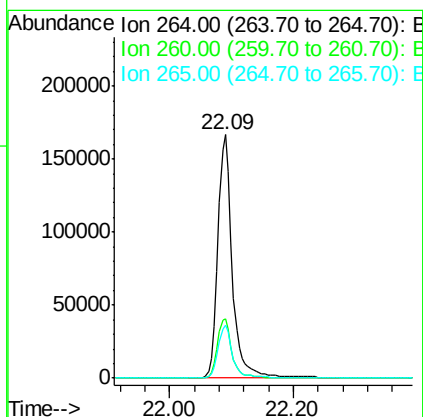
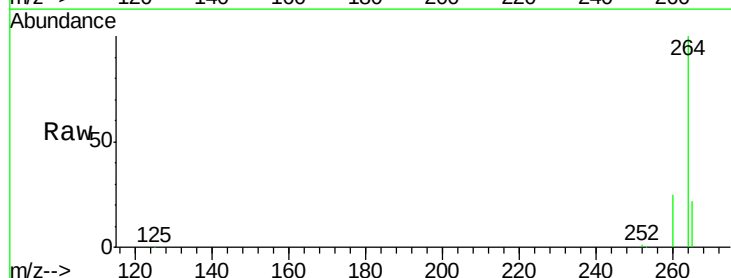
Instrument :
BNA_F
ClientSampleId :

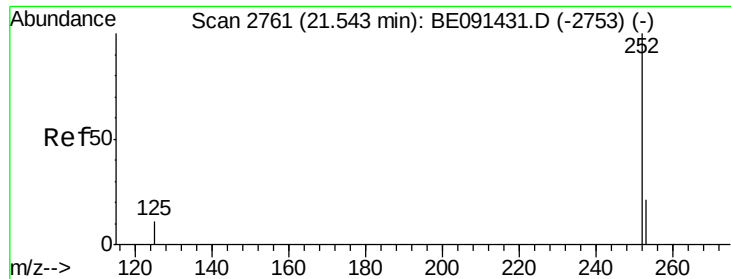
Tgt Ion: 276 Resp: 20361
Ion Ratio Lower Upper
276 100
138 20.7 16.3 24.5
277 21.9 18.1 27.1



#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2882
Delta R.T. 0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

Tgt Ion: 264 Resp: 272339
Ion Ratio Lower Upper
264 100
260 24.6 20.2 30.2
265 21.6 17.2 25.8

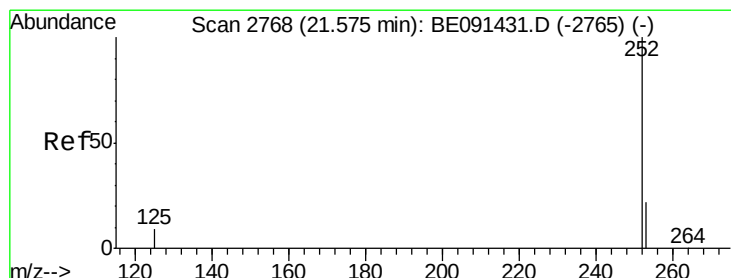
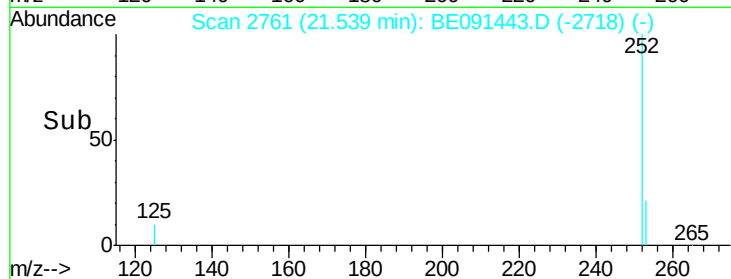
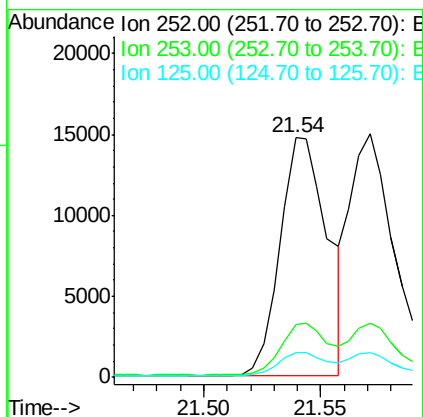
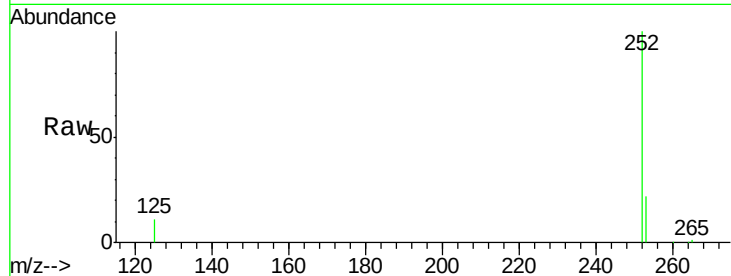




#26
Benzo(b)fluoranthene
Concen: 0.28 ng
RT: 21.54 min Scan# 2761
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

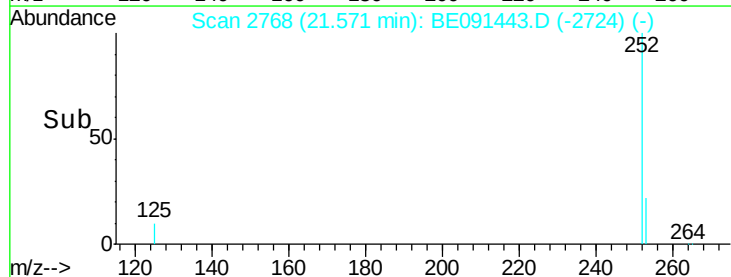
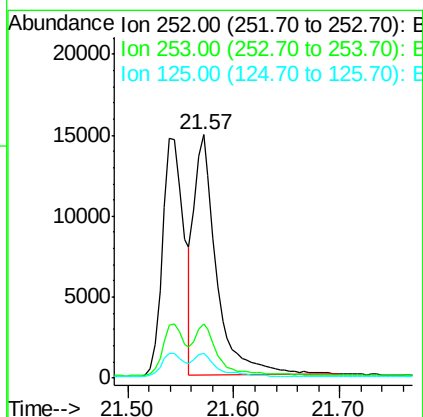
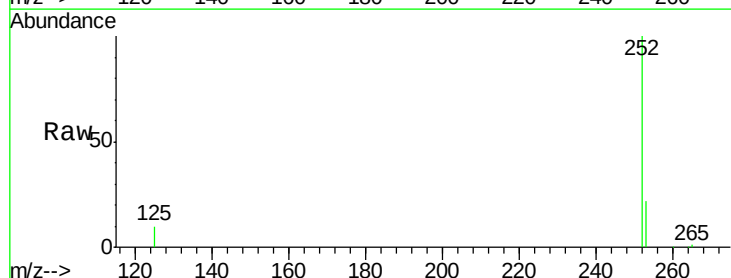
Instrument :
BNA_F
ClientSampleId :

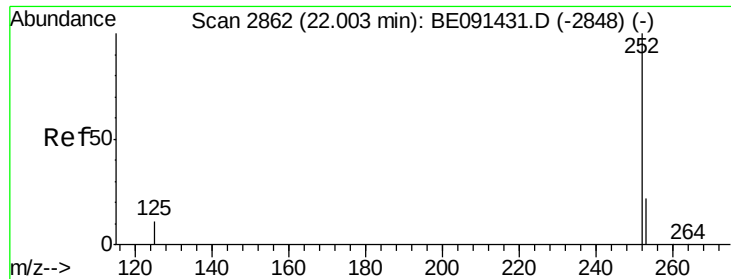
Tgt Ion: 252 Resp: 20742
Ion Ratio Lower Upper
252 100
253 21.8 17.8 26.6
125 10.6 8.6 12.8



#27
Benzo(k)fluoranthene
Concen: 0.26 ng
RT: 21.57 min Scan# 2768
Delta R.T. 0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

Tgt Ion: 252 Resp: 22046
Ion Ratio Lower Upper
252 100
253 22.3 17.9 26.9
125 10.1 8.4 12.6

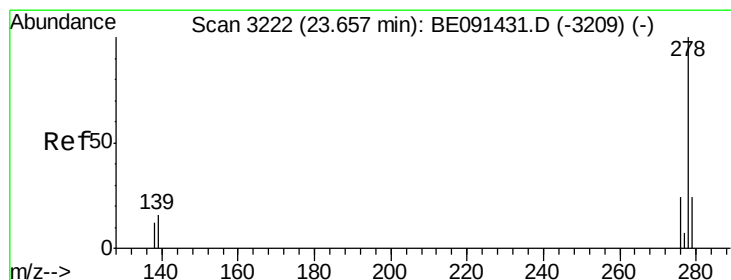
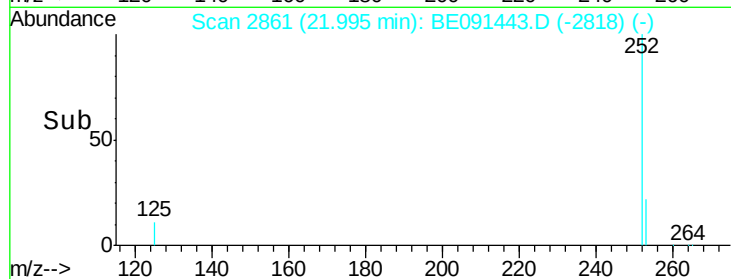
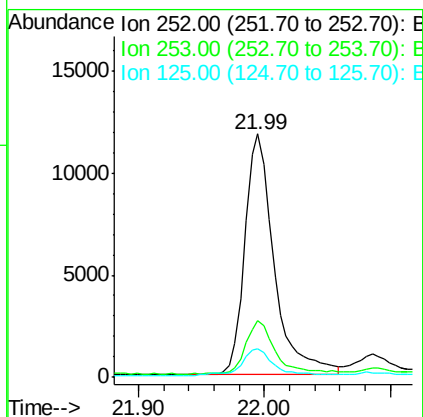
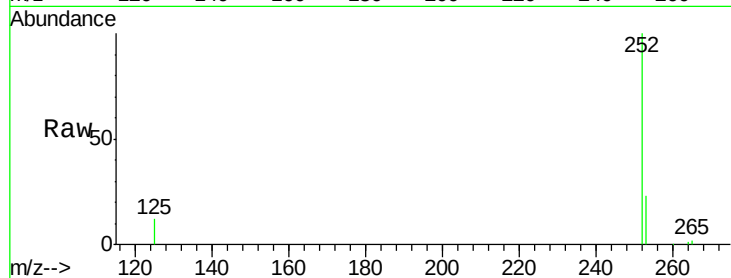




#28
Benzo(a)pyrene
Concen: 0.27 ng
RT: 21.99 min Scan# 2861
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

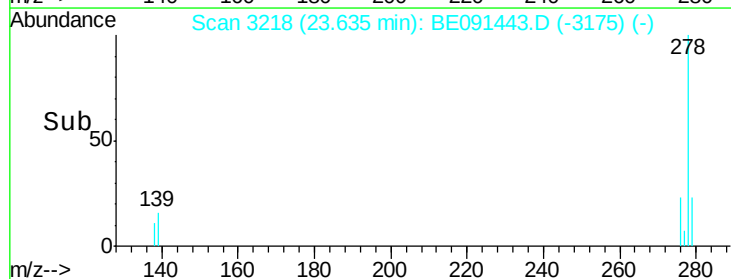
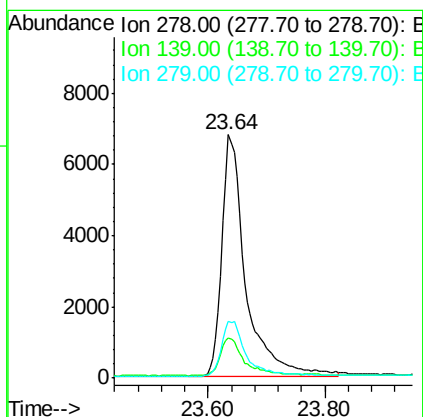
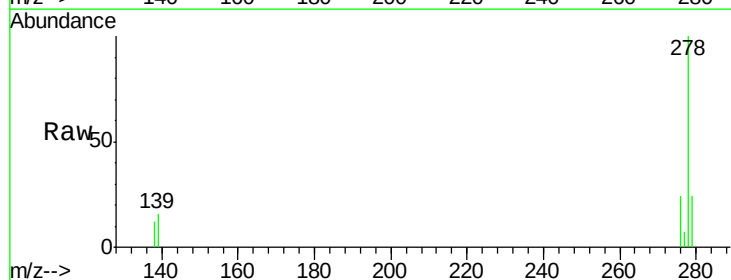
Instrument :
BNA_F
ClientSampleId :

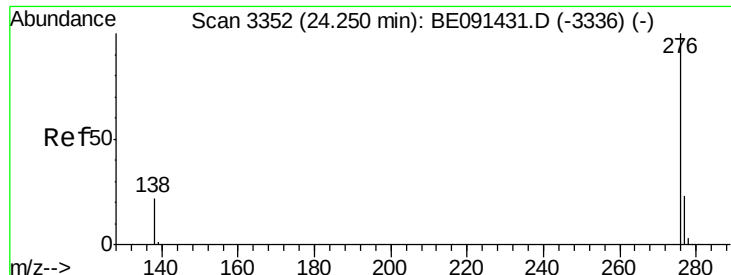
Tgt Ion: 252 Resp: 19120
Ion Ratio Lower Upper
252 100
253 23.4 18.8 28.2
125 11.5 9.3 13.9



#29
Dibenzo(a,h)anthracene
Concen: 0.24 ng
RT: 23.64 min Scan# 3218
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 3 Mar 2016 4:16

Tgt Ion: 278 Resp: 19134
Ion Ratio Lower Upper
278 100
139 16.4 13.4 20.0
279 23.5 19.3 28.9





#30

Benzo(g,h,i)perylene

Concen: 0.25 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.00 min

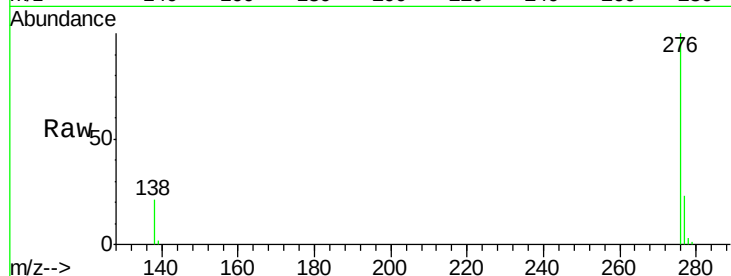
Lab File: BE091443.D

Acq: 3 Mar 2016 4:16

Instrument :

BNA_F

ClientSampleId :



Tgt Ion: 276 Resp: 21251

Ion Ratio Lower Upper

276 100

277 23.1 18.6 28.0

138 21.4 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

