

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011416\
 Data File : BE091364.D
 Acq On : 14 Jan 2016 23:36
 Operator : UM/IZ
 Sample : PB87820BL
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB87820BL

Quant Time: Jan 15 01:34:27 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 23:29:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	20177	5.00	ng	0.00
4) Naphthalene-d8	9.56	136	74971	5.00	ng	0.01
8) Acenaphthene-d10	13.37	164	31338	5.00	ng	0.02
14) Phenanthrene-d10	16.09	188	103693	5.00	ng	0.01
18) Chrysene-d12	20.23	240	87848	5.00	ng	0.01
24) Perylene-d12	22.10	264	73254	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	24195	7.53	ng	-0.03
3) Phenol-d6	6.56	99	33806	6.23	ng	-0.01
5) Nitrobenzene-d5	8.19	82	19285	4.44	ng	0.02
9) 2,4,6-Tribromophenol	14.89	330	4105	4.01	ng	0.00
10) 2-Fluorobiphenyl	12.02	172	36256	5.35	ng	0.01
20) Terphenyl-d14	18.62	244	49470	4.01	ng	0.00

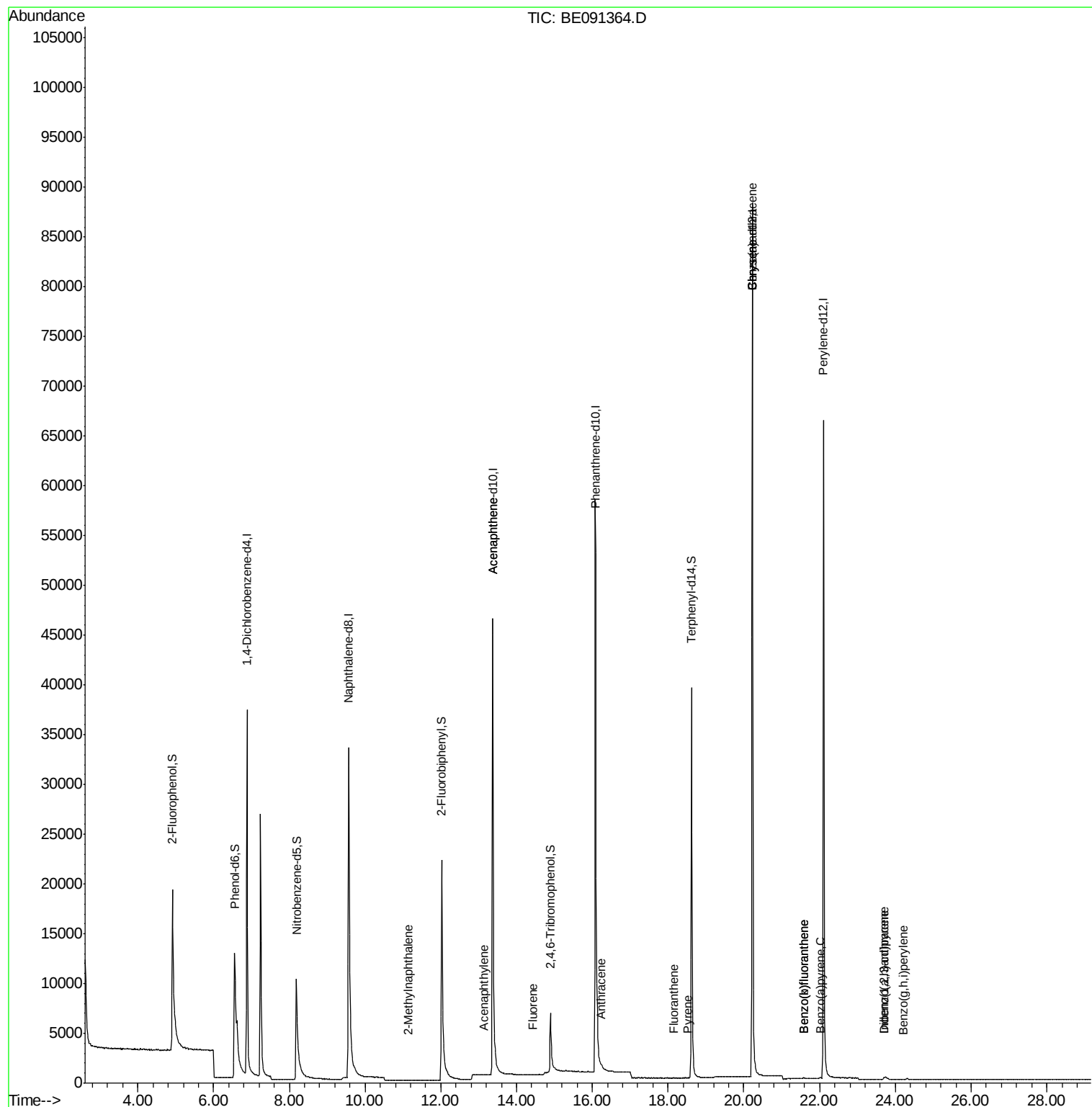
Target Compounds						Qvalue
7) 2-Methylnaphthalene	11.15	142	6	0.37	ng	# 65
11) Acenaphthylene	13.14	152	32	0.27	ng	# 1
12) Acenaphthene	13.37	154	320	0.04	ng	# 1
13) Fluorene	14.44	166	4	0.14	ng	# 6
16) Anthracene	16.24	178	28	0.24	ng	# 60
17) Fluoranthene	18.15	202	30	0.28	ng	# 84
19) Pyrene	18.52	202	13	0.39	ng	# 57
21) Benzo(a)anthracene	20.23	228	533	0.41	ng	# 65
22) Chrysene	20.23	228	533	0.02	ng	# 67
23) Indeno(1,2,3-cd)pyrene	23.69	276	48	0.35	ng	# 55
25) Benzo(b)fluoranthene	21.57	252	90	0.29	ng	# 1
26) Benzo(k)fluoranthene	21.57	252	90	0.27	ng	# 1
27) Benzo(a)pyrene	22.02	252	131	0.27	ng	# 1
28) Dibenzo(a,h)anthracene	23.70	278	497	0.47	ng	# 50
29) Benzo(g,h,i)perylene	24.21	276	8	0.34	ng	# 1

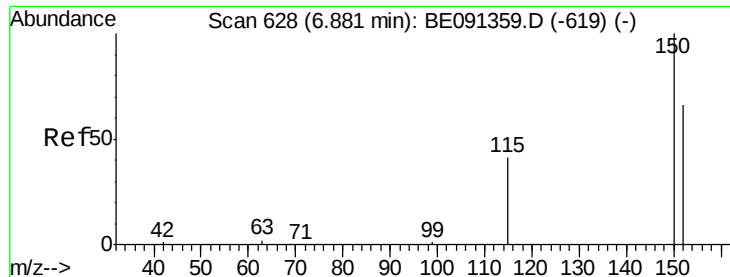
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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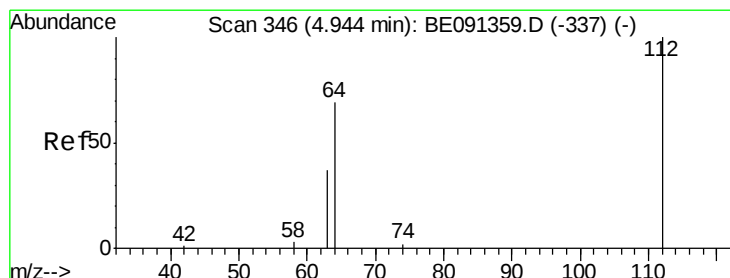
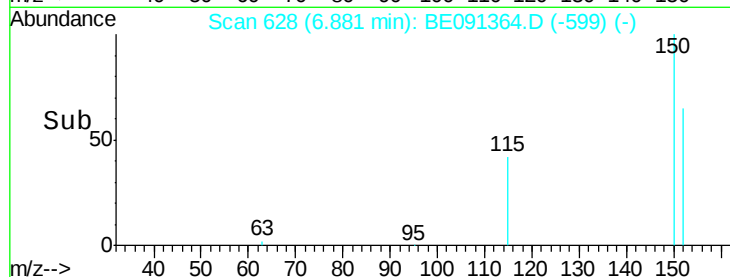
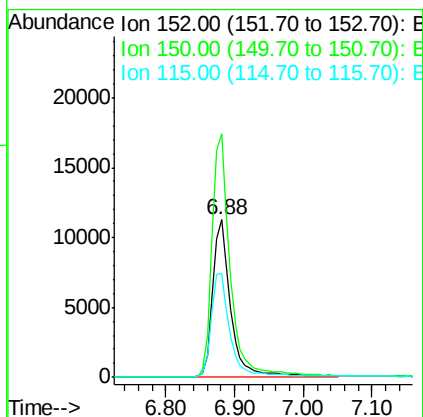
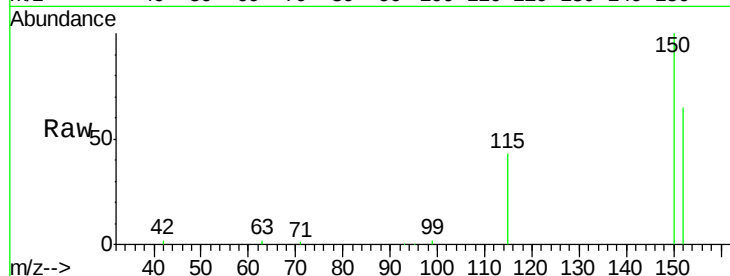




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 6.88 min Scan# 628
 Delta R.T. -0.00 min
 Lab File: BE091364.D
 Acq: 14 Jan 2016 23:36

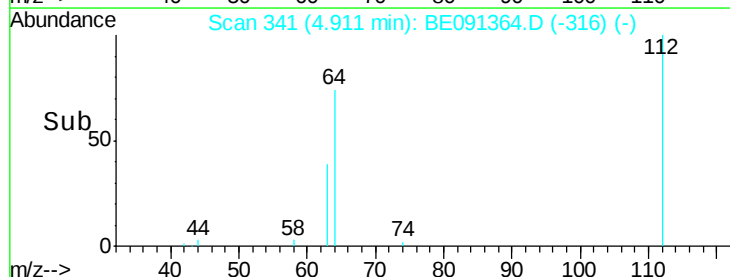
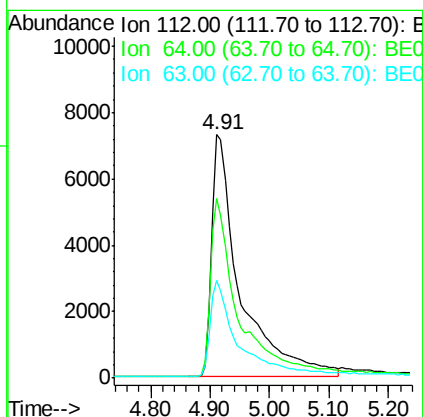
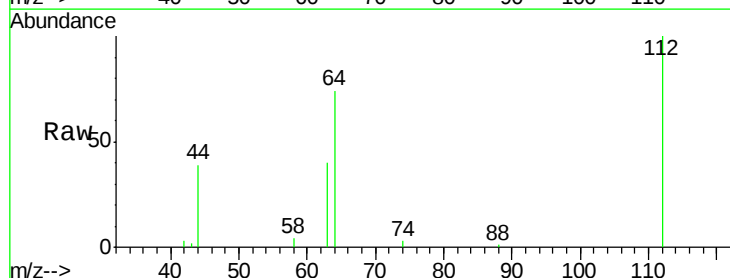
Instrument :
 BNA_E
 ClientSampleId :
 PB87820BL

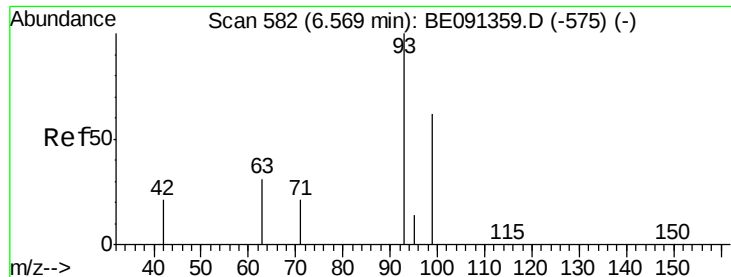
Tgt Ion:152 Resp: 20177
 Ion Ratio Lower Upper
 152 100
 150 154.7 121.6 182.4
 115 65.8 50.6 75.8



#2
 2-Fluorophenol
 Concen: 7.53 ng
 RT: 4.91 min Scan# 341
 Delta R.T. -0.03 min
 Lab File: BE091364.D
 Acq: 14 Jan 2016 23:36

Tgt Ion:112 Resp: 24195
 Ion Ratio Lower Upper
 112 100
 64 71.4 57.4 86.0
 63 38.5 32.2 48.2





#3

Phenol-d6

Concen: 6.23 ng

RT: 6.56 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL

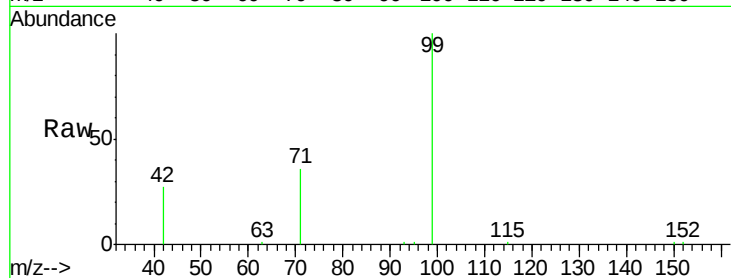
Tgt Ion: 99 Resp: 33806

Ion Ratio Lower Upper

99 100

42 16.8 22.9 34.3#

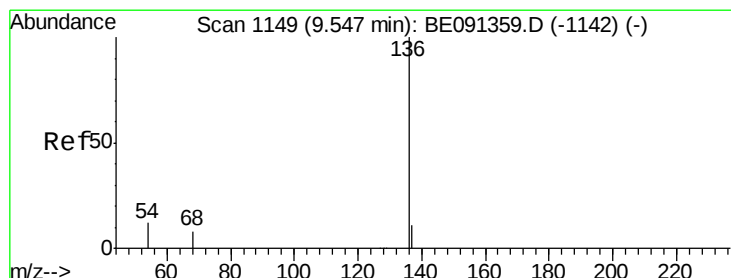
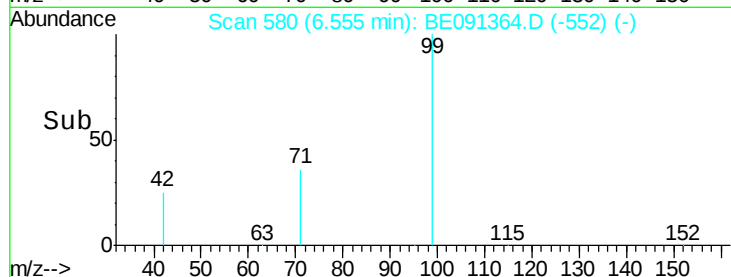
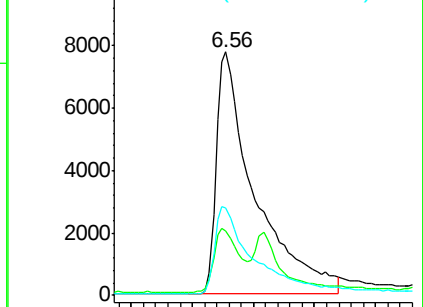
71 36.4 35.4 53.2



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.56 min Scan# 1151

Delta R.T. 0.01 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Tgt Ion: 136 Resp: 74971

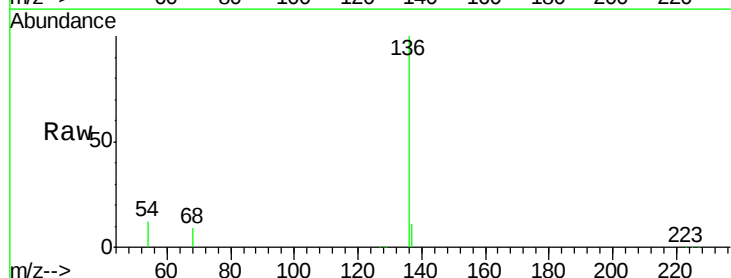
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 12.3 9.8 14.6

68 8.5 6.6 10.0

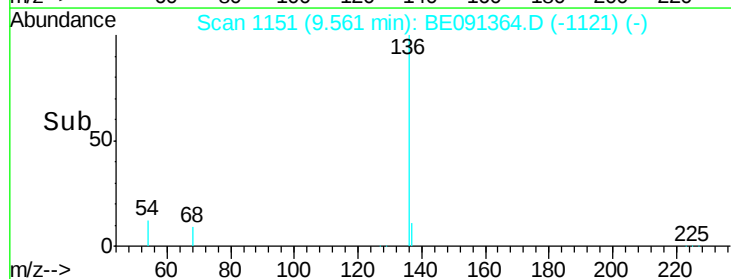
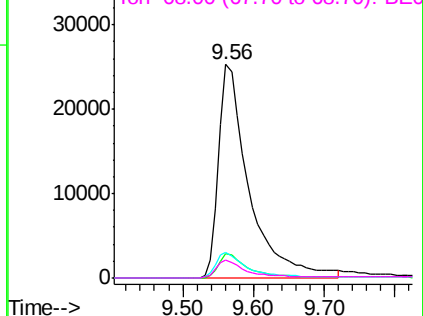


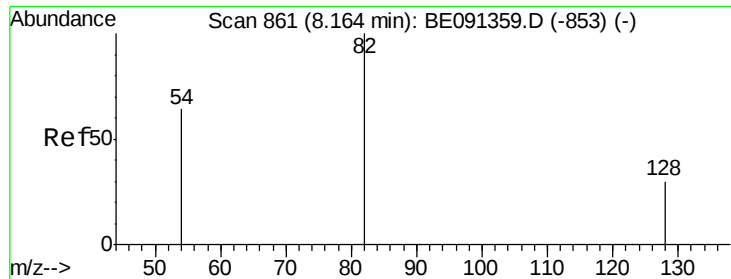
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#5

Nitrobenzene-d5

Concen: 4.44 ng

RT: 8.19 min Scan# 866

Delta R.T. 0.02 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL

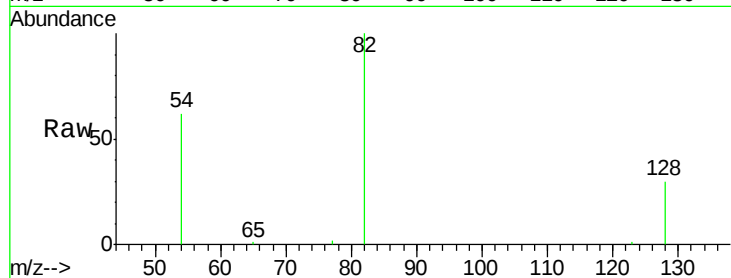
Tgt Ion: 82 Resp: 19285

Ion Ratio Lower Upper

82 100

128 29.9 24.6 36.8

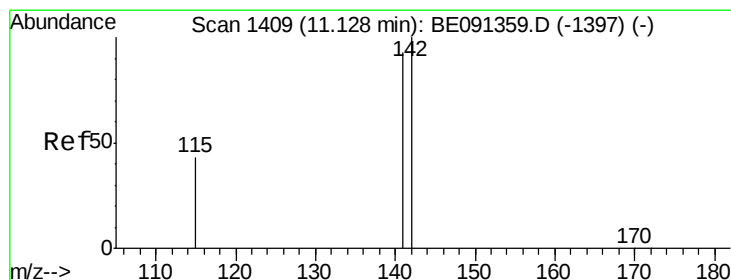
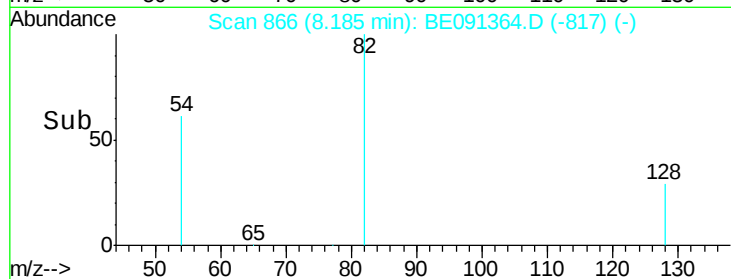
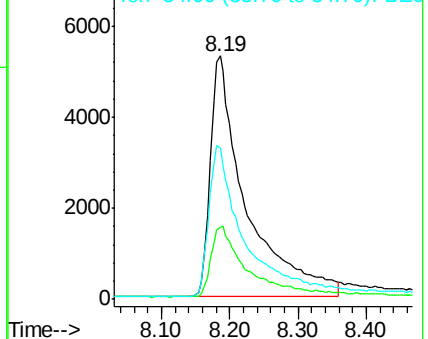
54 62.1 52.7 79.1



Abundance Ion 82.00 (81.70 to 82.70): BE091359.D (-853) (-)

Ion 128.00 (127.70 to 128.70): BE091359.D (-853) (-)

Ion 54.00 (53.70 to 54.70): BE091359.D (-853) (-)



#7

2-Methylnaphthalene

Concen: 0.37 ng

RT: 11.15 min Scan# 1413

Delta R.T. 0.02 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

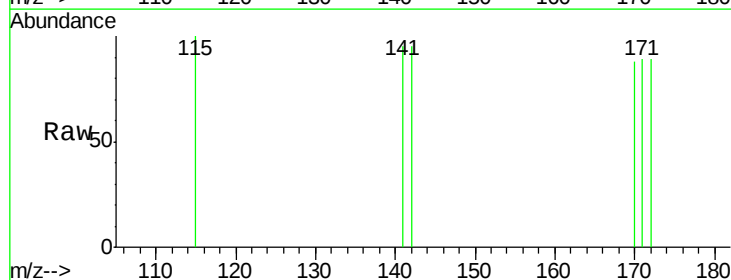
Tgt Ion: 142 Resp: 6

Ion Ratio Lower Upper

142 100

141 100.0 74.5 111.7

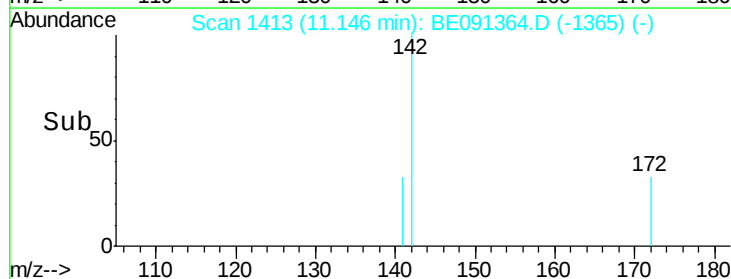
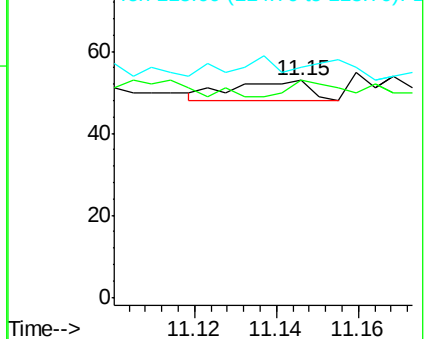
115 105.7 35.2 52.8#

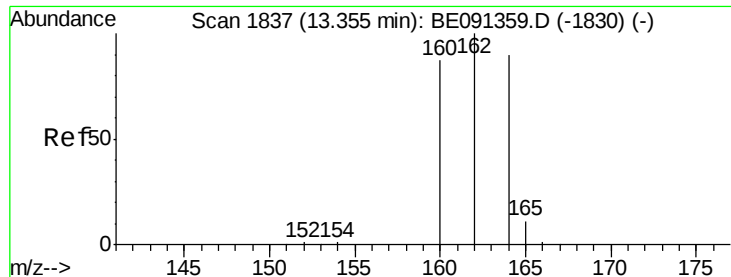


Abundance Ion 142.00 (141.70 to 142.70): BE091359.D (-1397) (-)

Ion 141.00 (140.70 to 141.70): BE091359.D (-1397) (-)

Ion 115.00 (114.70 to 115.70): BE091359.D (-1397) (-)





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.37 min Scan# 1839

Delta R.T. 0.02 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL

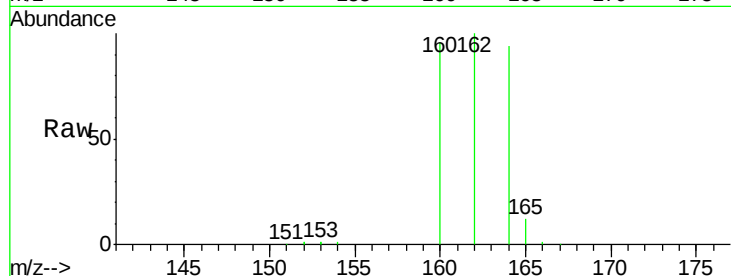
Tgt Ion:164 Resp: 31338

Ion Ratio Lower Upper

164 100

162 106.0 88.5 132.7

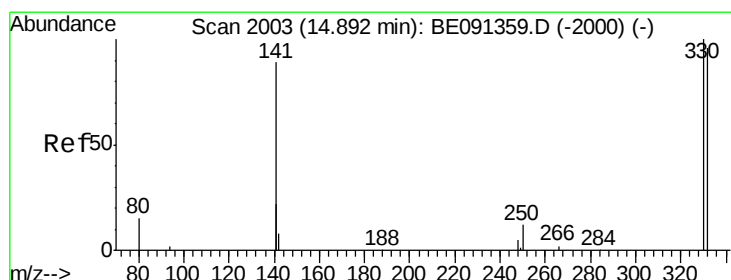
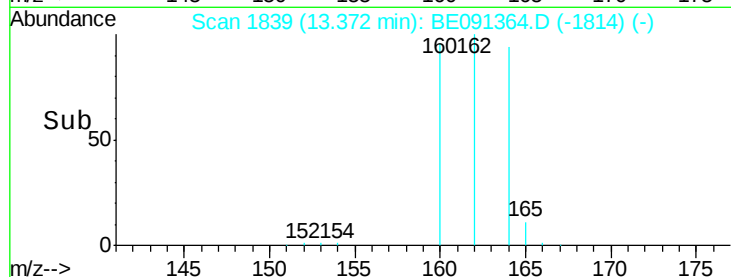
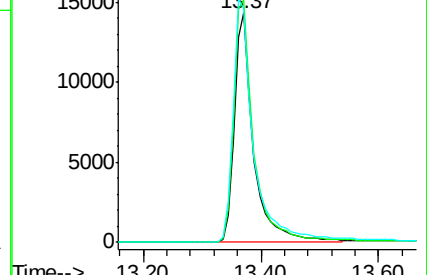
160 101.8 76.7 115.1



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

2,4,6-Tribromophenol

Concen: 4.01 ng

RT: 14.89 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

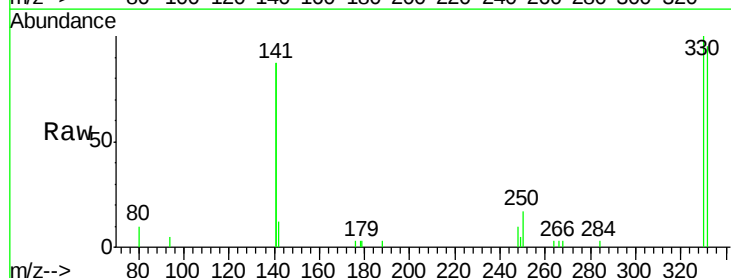
Tgt Ion:330 Resp: 4105

Ion Ratio Lower Upper

330 100

332 98.4 78.6 118.0

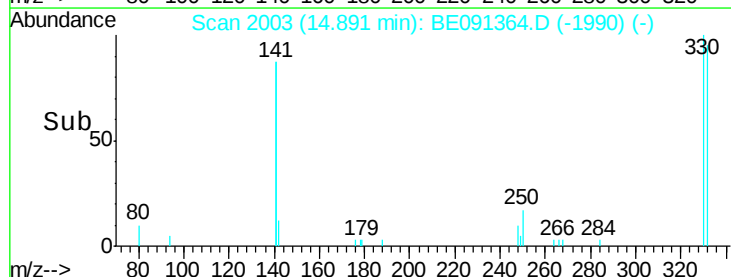
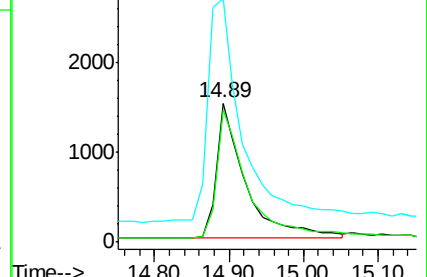
141 192.8 147.8 221.8

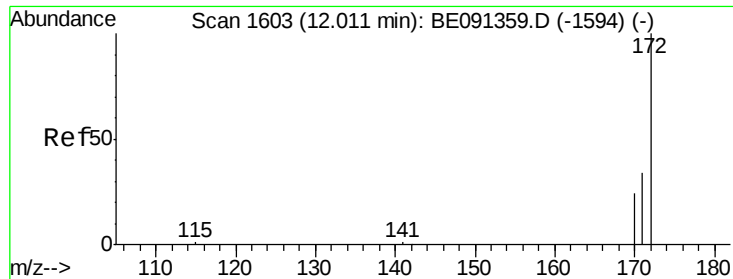


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

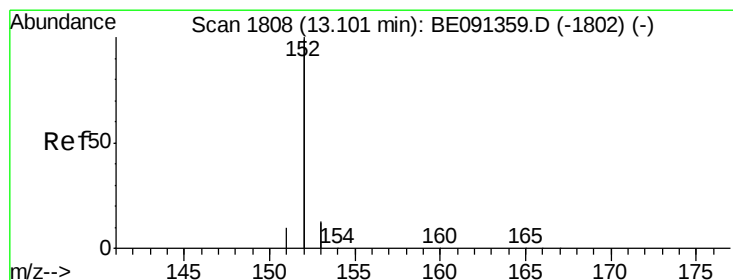
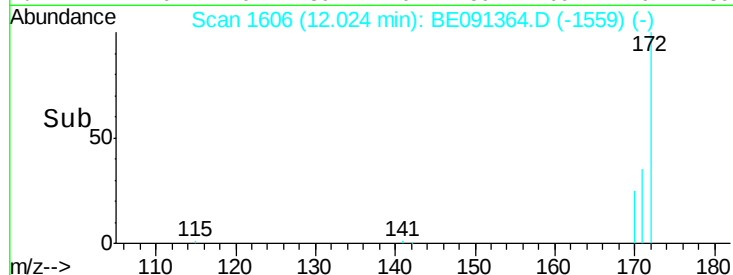
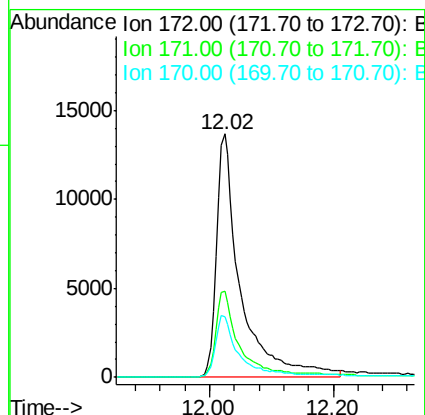
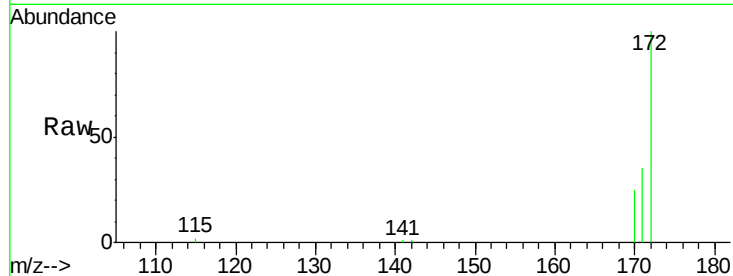




#10
2-Fluorobiphenyl
Concen: 5.35 ng
RT: 12.02 min Scan# 1606
Delta R.T. 0.01 min
Lab File: BE091364.D
Acq: 14 Jan 2016 23:36

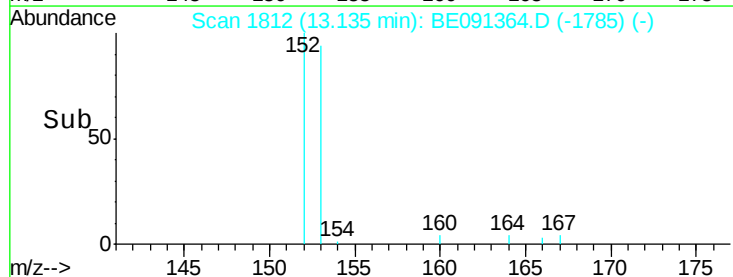
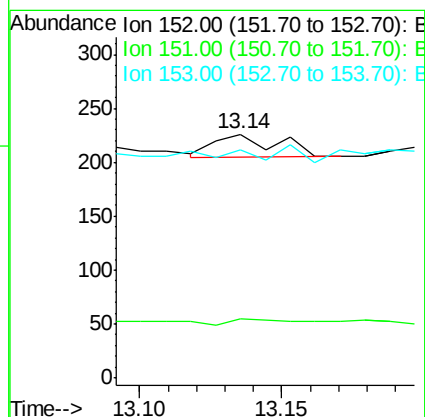
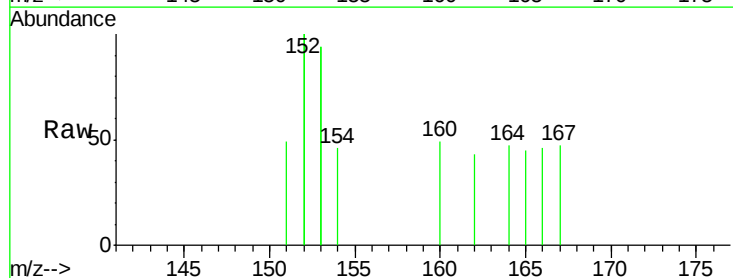
Instrument :
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PB87820BL

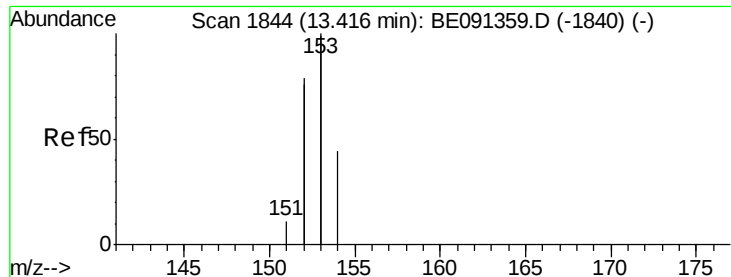
Tgt Ion:172 Resp: 36256
Ion Ratio Lower Upper
172 100
171 35.3 27.3 40.9
170 24.8 19.8 29.6



#11
Acenaphthylene
Concen: 0.27 ng
RT: 13.14 min Scan# 1812
Delta R.T. 0.04 min
Lab File: BE091364.D
Acq: 14 Jan 2016 23:36

Tgt Ion:152 Resp: 32
Ion Ratio Lower Upper
152 100
151 21.9 3.8 5.8#
153 87.5 10.1 15.1#





#12

Acenaphthene

Concen: 0.04 ng

RT: 13.37 min Scan# 1839

Delta R.T. -0.04 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL

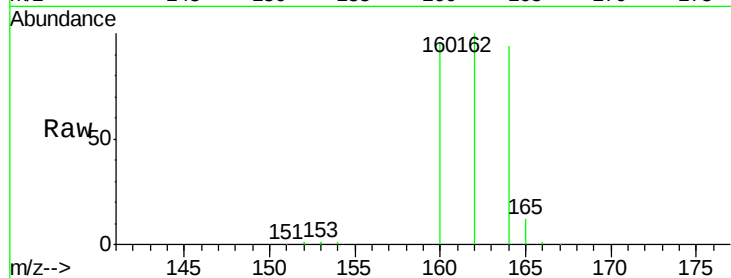
Tgt Ion:154 Resp: 320

Ion Ratio Lower Upper

154 100

153 33.8 370.2 555.4#

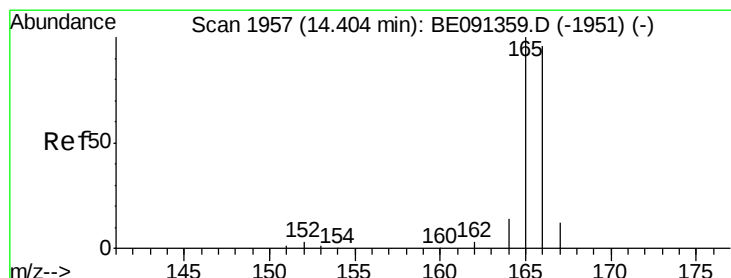
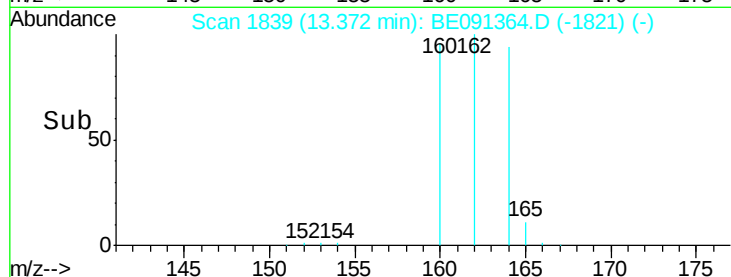
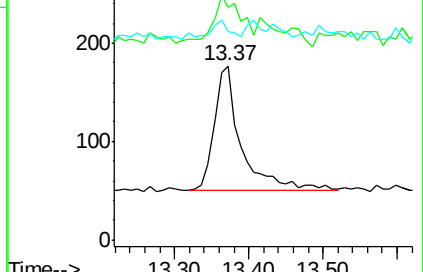
152 7.8 310.5 465.7#



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



#13

Fluorene

Concen: 0.14 ng

RT: 14.44 min Scan# 1961

Delta R.T. 0.04 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

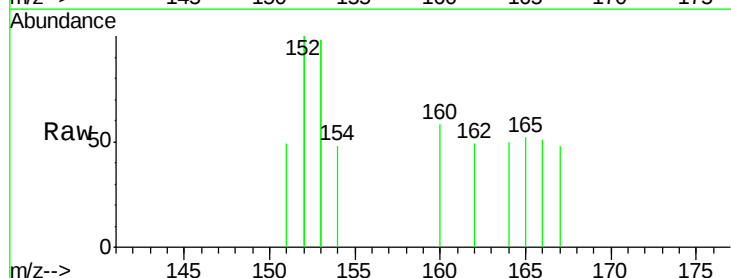
Tgt Ion:166 Resp: 4

Ion Ratio Lower Upper

166 100

165 0.0 83.0 124.6#

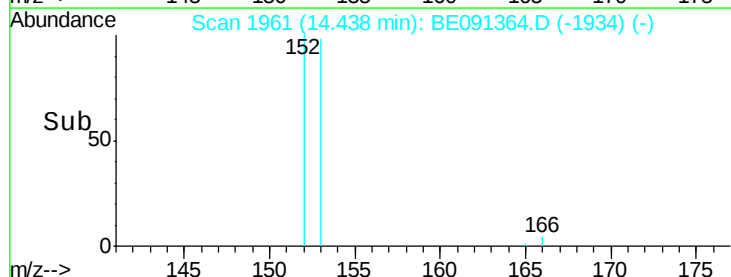
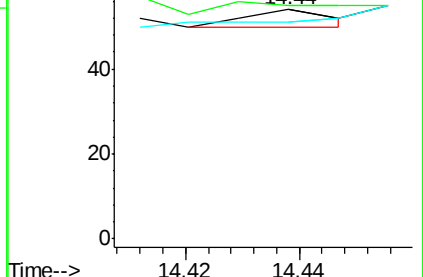
167 0.0 11.1 16.7#

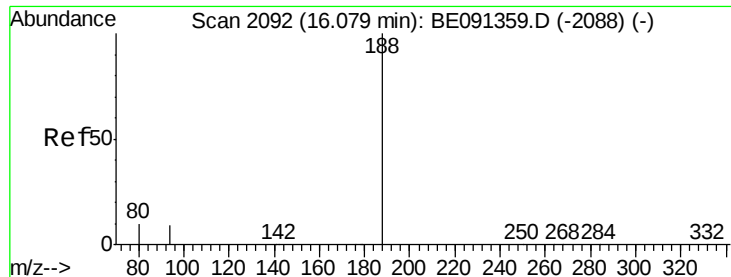


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2093

Delta R.T. 0.01 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL

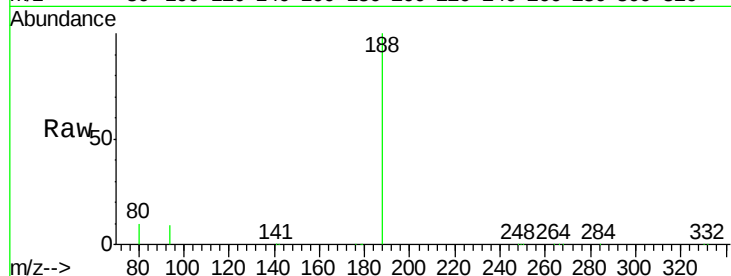
Tgt Ion:188 Resp: 103693

Ion Ratio Lower Upper

188 100

94 8.9 7.5 11.3

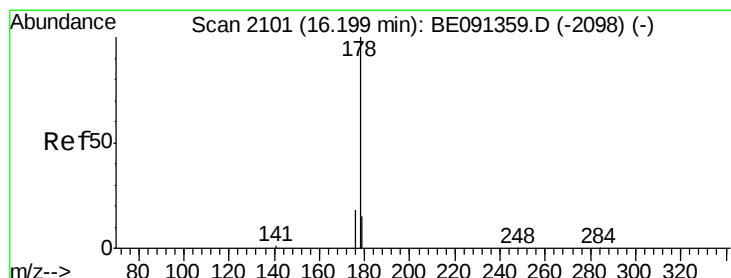
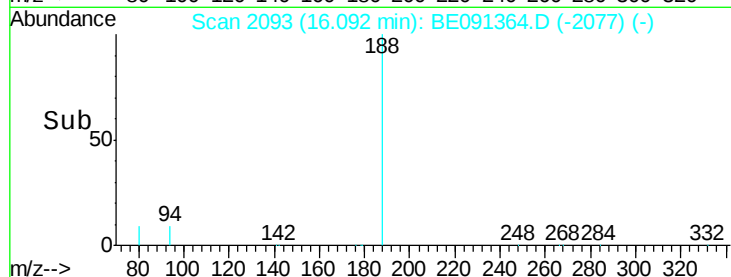
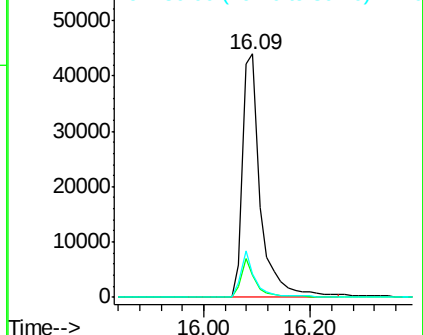
80 9.6 8.2 12.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#16

Anthracene

Concen: 0.24 ng

RT: 16.24 min Scan# 2104

Delta R.T. 0.04 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

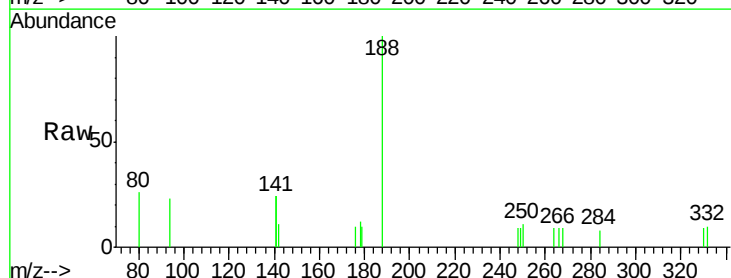
Tgt Ion:178 Resp: 28

Ion Ratio Lower Upper

178 100

176 0.0 15.0 22.6#

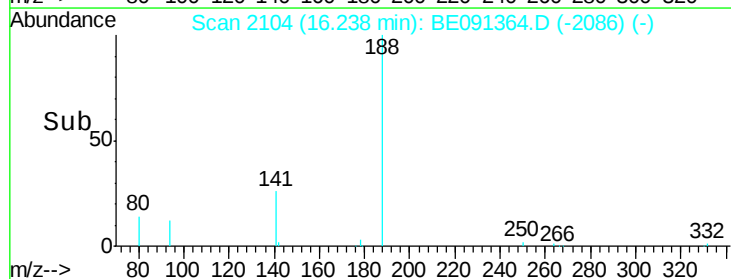
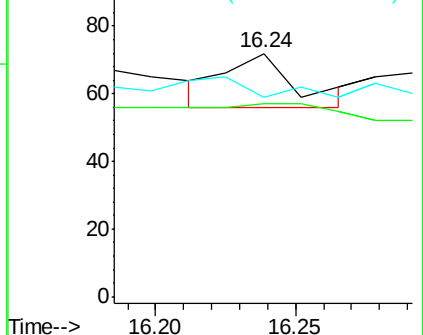
179 0.0 12.4 18.6#

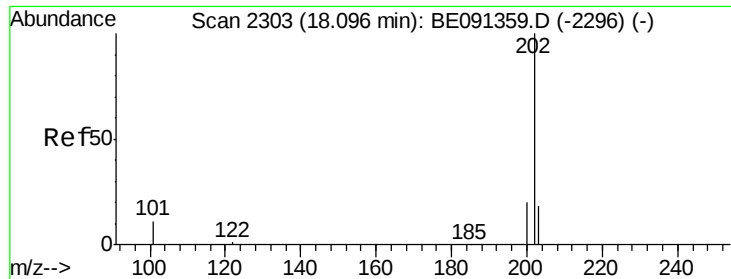


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

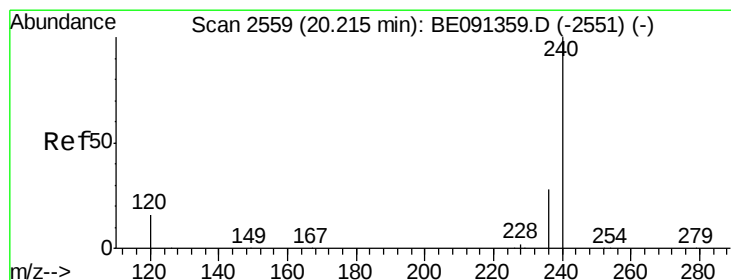
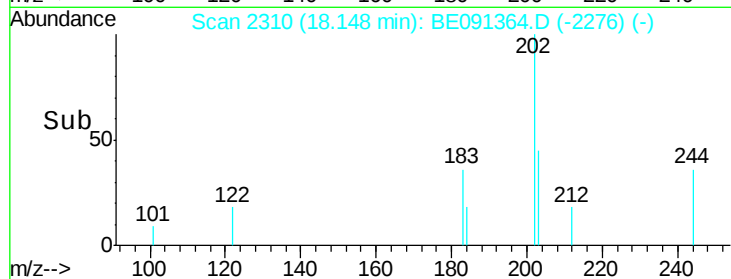
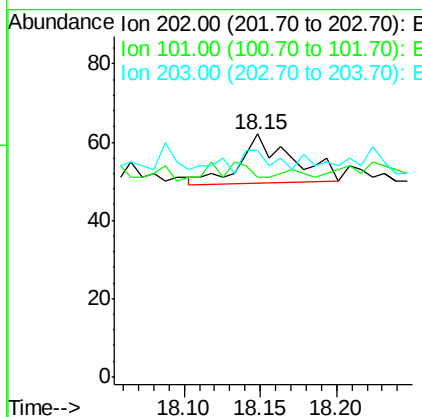
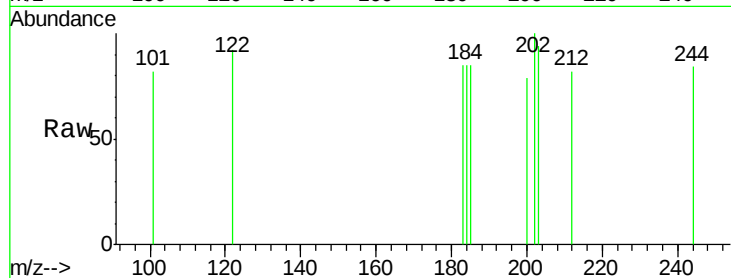




#17
Fluoranthene
 Concen: 0.28 ng
 RT: 18.15 min Scan# 2310
 Delta R.T. 0.05 min
 Lab File: BE091364.D
 Acq: 14 Jan 2016 23:36

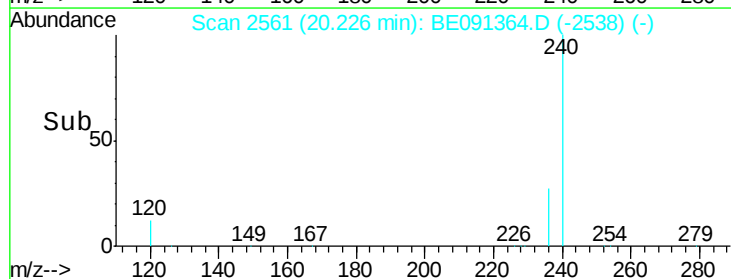
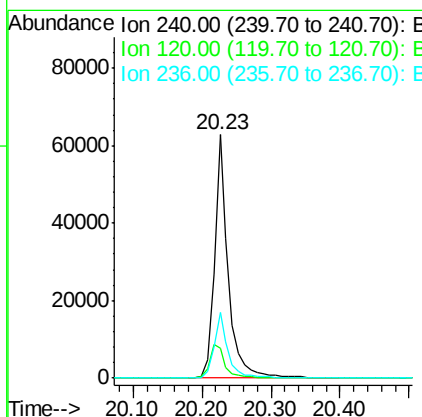
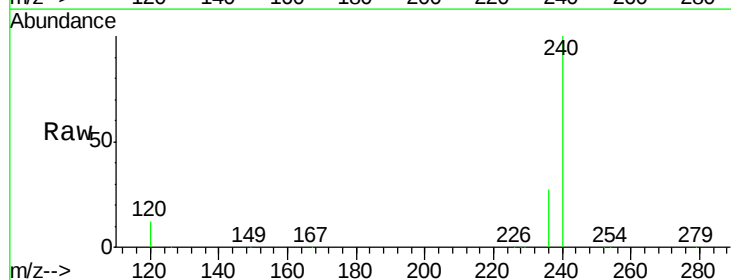
Instrument :
 BNA_E
 ClientSampleId :
 PB87820BL

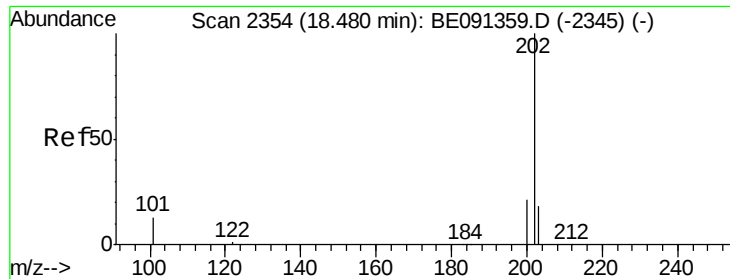
Tgt Ion: 202 Resp: 30
 Ion Ratio Lower Upper
 202 100
 101 10.0 11.0 16.4#
 203 26.7 13.9 20.9#



#18
Chrysene-d12
 Concen: 5.00 ng
 RT: 20.23 min Scan# 2561
 Delta R.T. 0.01 min
 Lab File: BE091364.D
 Acq: 14 Jan 2016 23:36

Tgt Ion: 240 Resp: 87848
 Ion Ratio Lower Upper
 240 100
 120 12.1 12.6 19.0#
 236 27.0 22.7 34.1





#19

Pyrene

Concen: 0.39 ng

RT: 18.52 min Scan# 2360

Delta R.T. 0.05 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL

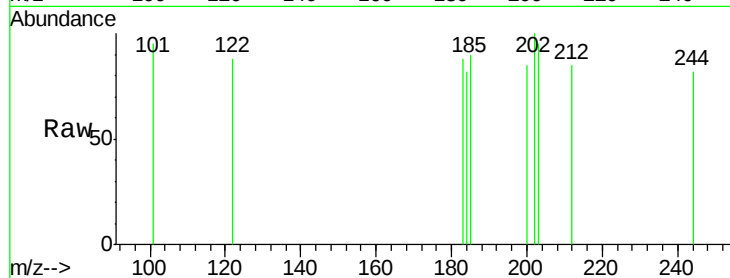
Tgt Ion:202 Resp: 13

Ion Ratio Lower Upper

202 100

200 0.0 17.2 25.8#

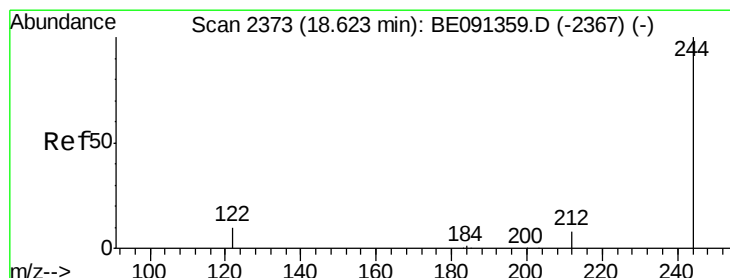
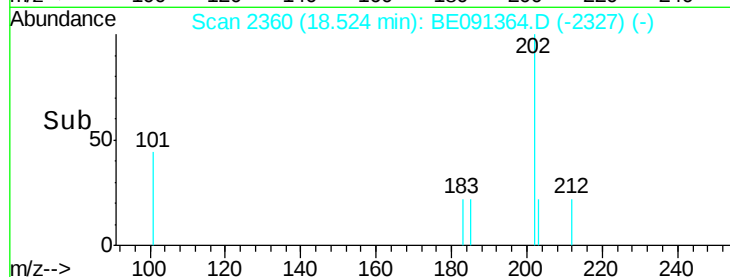
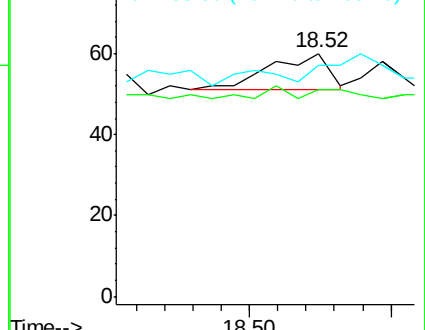
203 0.0 14.2 21.4#



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



#20

Terphenyl-d14

Concen: 4.01 ng

RT: 18.62 min Scan# 2373

Delta R.T. 0.00 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

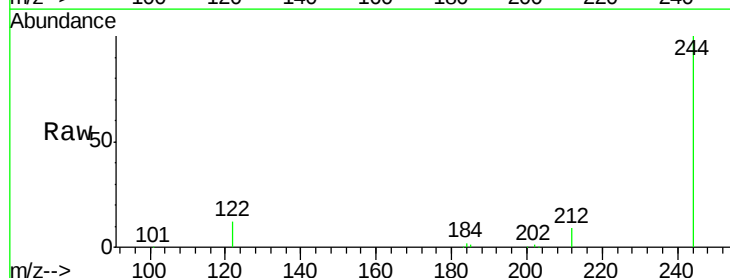
Tgt Ion:244 Resp: 49470

Ion Ratio Lower Upper

244 100

212 8.8 7.0 10.4

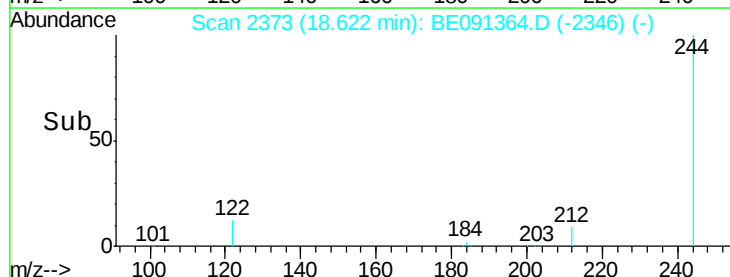
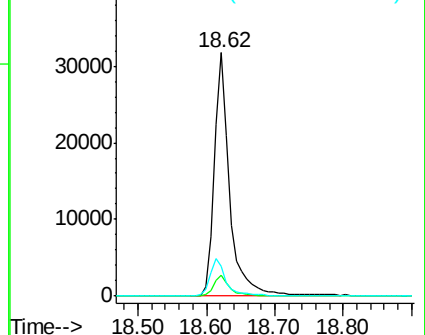
122 12.1 8.5 12.7

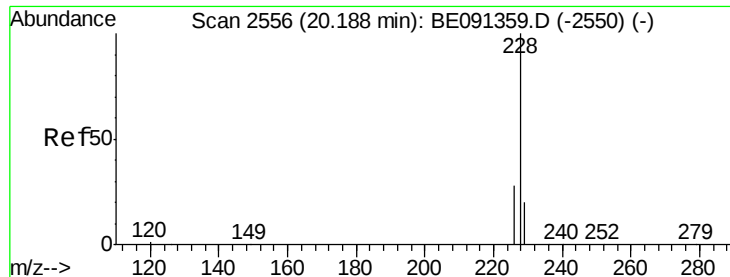


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

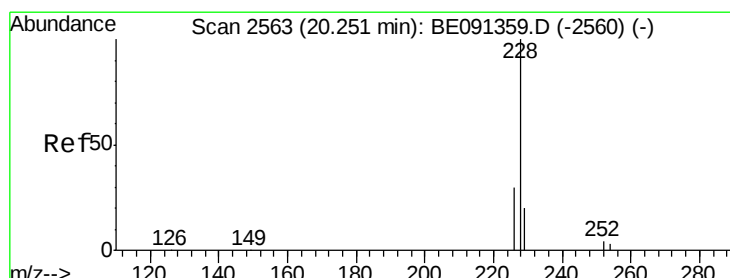
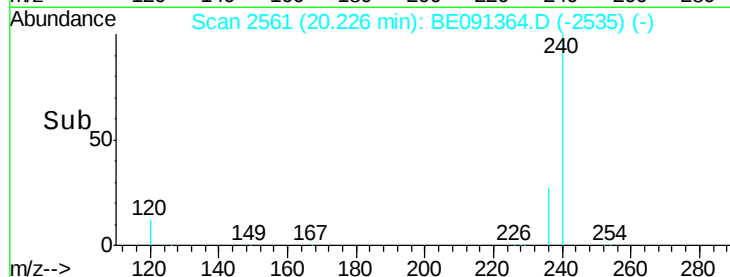
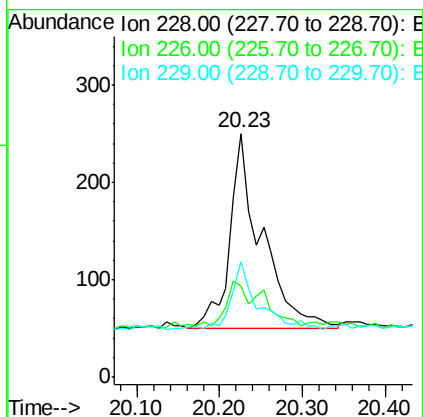
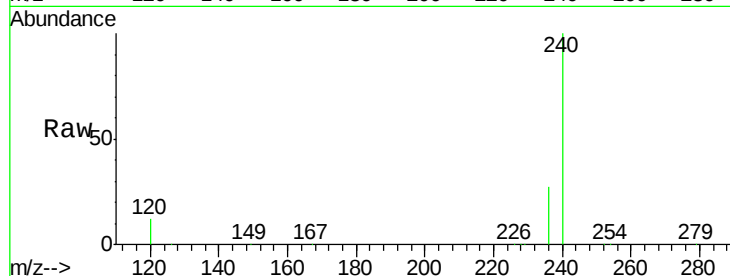




#21
Benzo(a)anthracene
Concen: 0.41 ng
RT: 20.23 min Scan# 2561
Delta R.T. 0.04 min
Lab File: BE091364.D
Acq: 14 Jan 2016 23:36

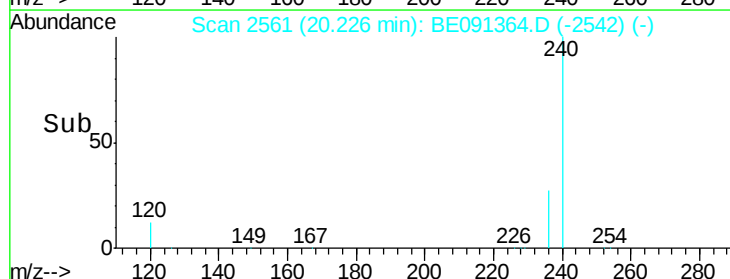
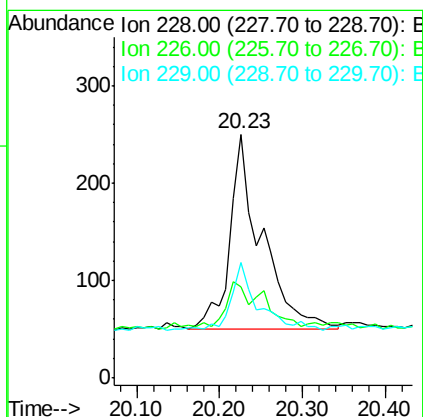
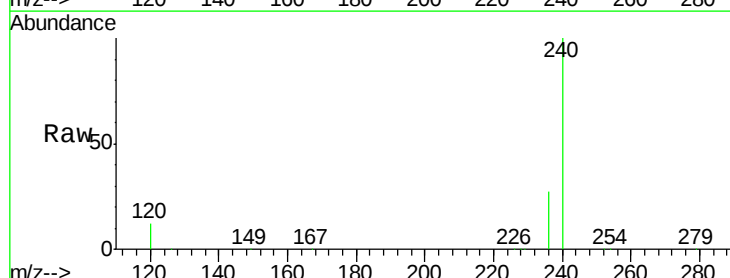
Instrument :
BNA_E
ClientSampleId :
PB87820BL

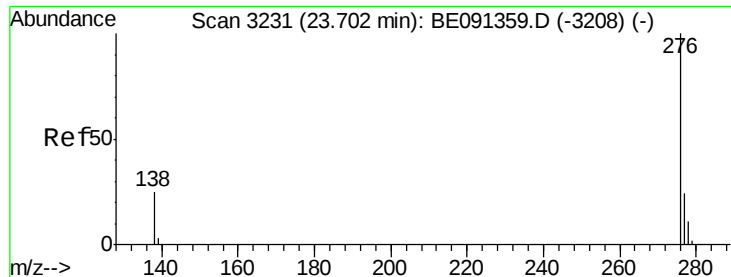
Tgt Ion:228 Resp: 533
Ion Ratio Lower Upper
228 100
226 37.6 22.5 33.7#
229 47.6 16.2 24.4#



#22
Chrysene
Concen: 0.02 ng
RT: 20.23 min Scan# 2561
Delta R.T. -0.03 min
Lab File: BE091364.D
Acq: 14 Jan 2016 23:36

Tgt Ion:228 Resp: 533
Ion Ratio Lower Upper
228 100
226 37.6 23.7 35.5#
229 47.6 16.0 24.0#

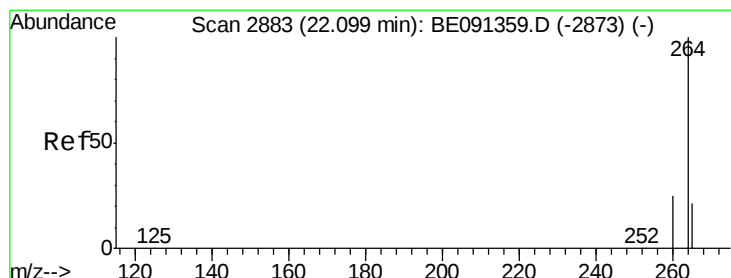
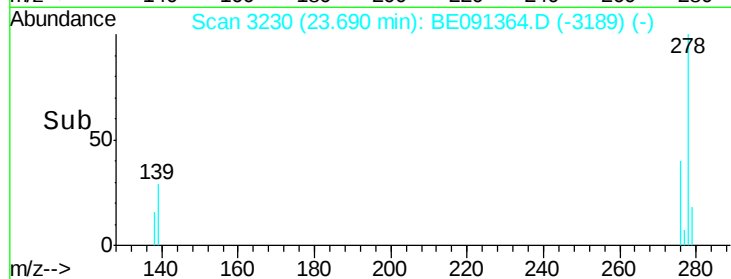
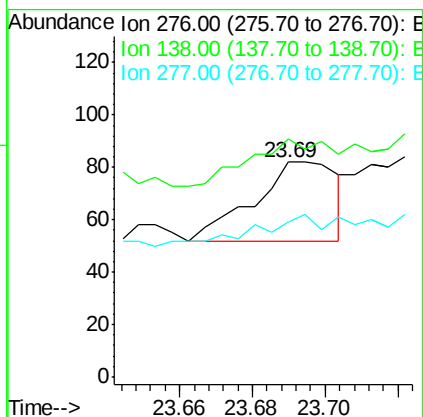
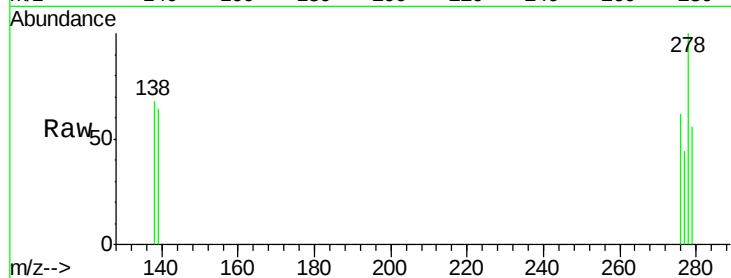




#23
Indeno(1,2,3-cd)pyrene
Concen: 0.35 ng
RT: 23.69 min Scan# 3230
Delta R.T. -0.01 min
Lab File: BE091364.D
Acq: 14 Jan 2016 23:36

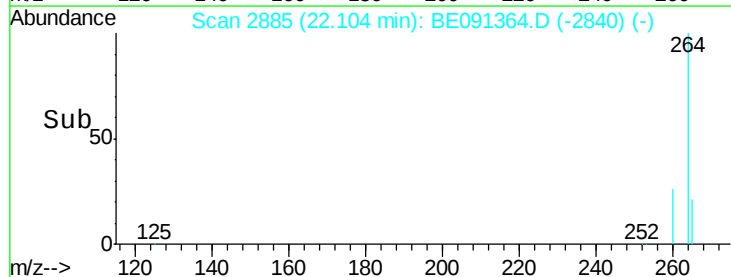
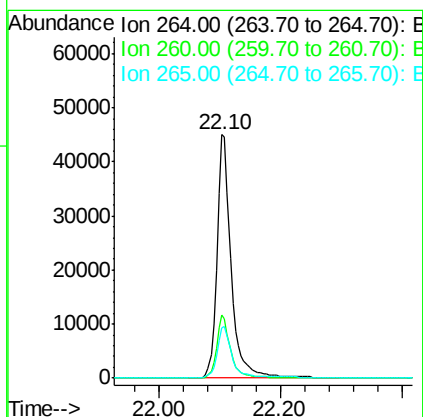
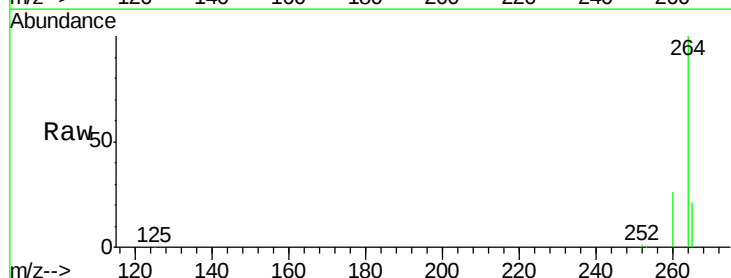
Instrument :
BNA_E
ClientSampleId :
PB87820BL

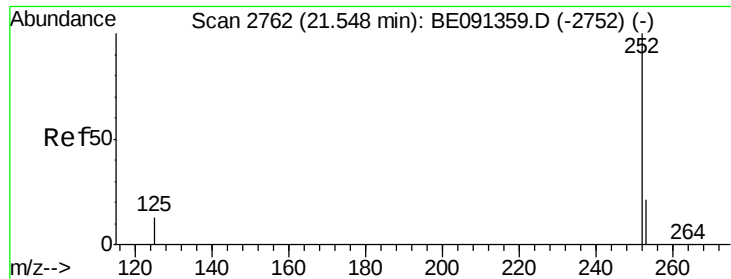
Tgt Ion: 276 Resp: 48
Ion Ratio Lower Upper
276 100
138 56.3 18.6 27.8#
277 29.2 16.5 24.7#



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.10 min Scan# 2885
Delta R.T. 0.00 min
Lab File: BE091364.D
Acq: 14 Jan 2016 23:36

Tgt Ion: 264 Resp: 73254
Ion Ratio Lower Upper
264 100
260 25.8 20.4 30.6
265 20.8 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 0.29 ng

RT: 21.57 min Scan# 2768

Delta R.T. 0.02 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL

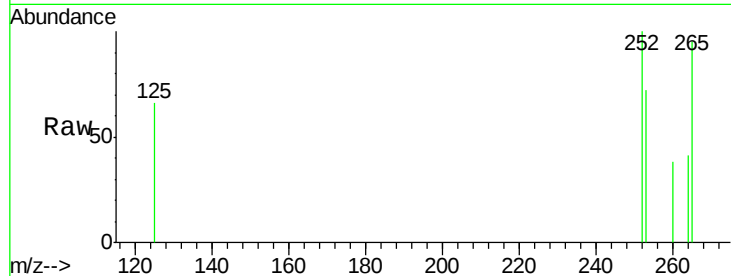
Tgt Ion:252 Resp: 90

Ion Ratio Lower Upper

252 100

253 72.1 17.4 26.2#

125 65.9 11.0 16.6#

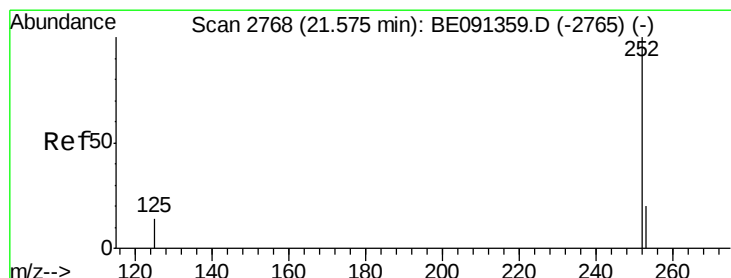
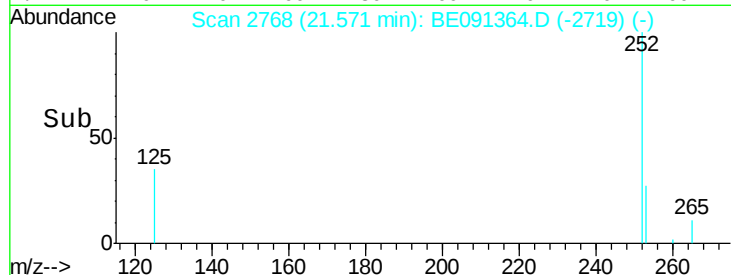
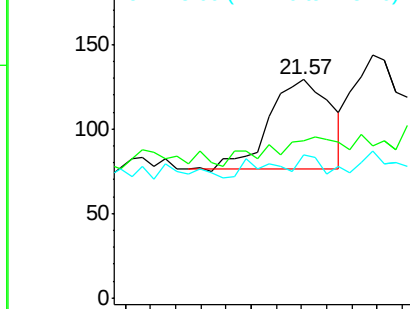


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Benzo(k)fluoranthene

Concen: 0.27 ng

RT: 21.57 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

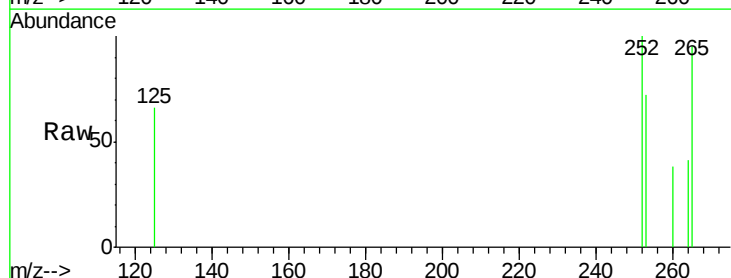
Tgt Ion:252 Resp: 90

Ion Ratio Lower Upper

252 100

253 72.1 17.5 26.3#

125 65.9 11.3 16.9#

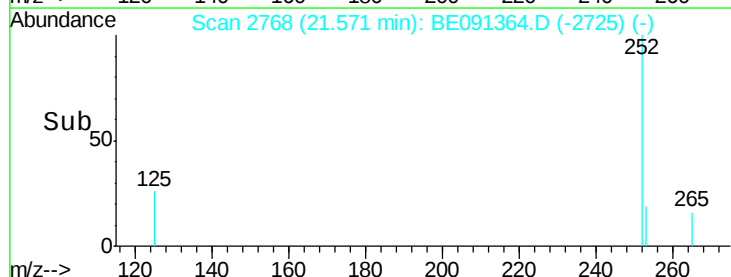
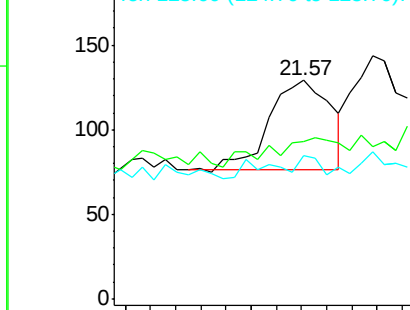


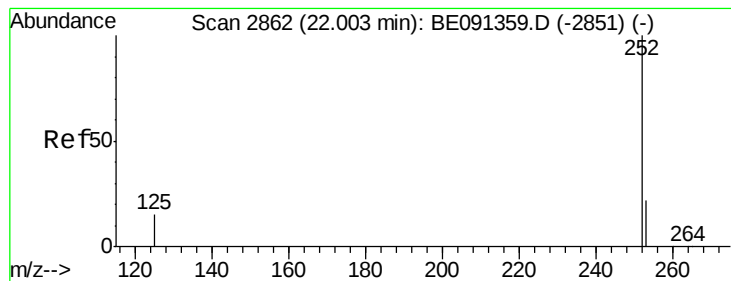
Abundance

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





#27

Benzo(a)pyrene

Concen: 0.27 ng

RT: 22.02 min Scan# 2866

Delta R.T. 0.01 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL

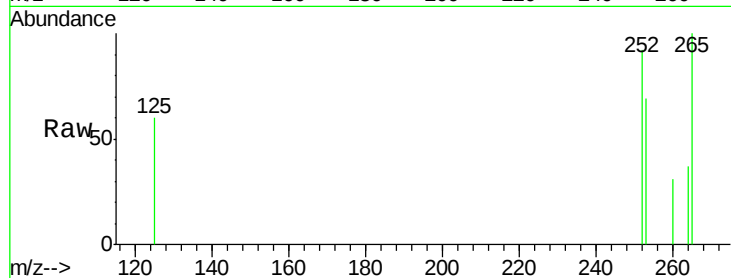
Tgt Ion: 252 Resp: 131

Ion Ratio Lower Upper

252 100

253 75.6 18.1 27.1#

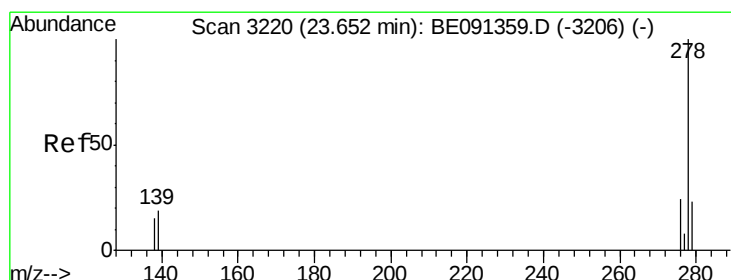
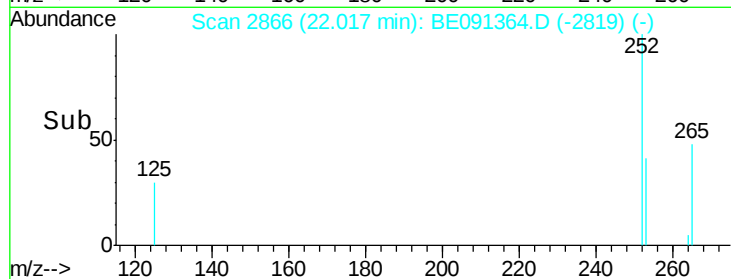
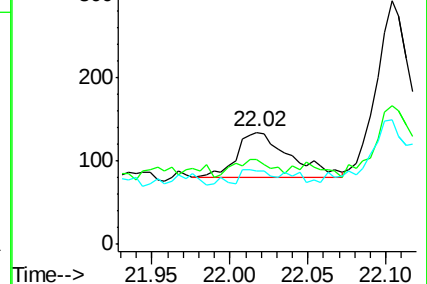
125 65.2 12.2 18.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Dibenzo(a,h)anthracene

Concen: 0.47 ng

RT: 23.70 min Scan# 3232

Delta R.T. 0.05 min

Lab File: BE091364.D

Acq: 14 Jan 2016 23:36

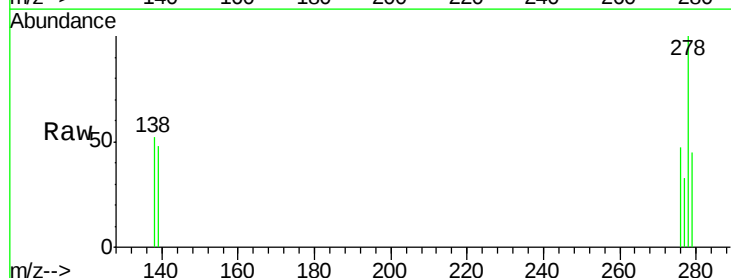
Tgt Ion: 278 Resp: 497

Ion Ratio Lower Upper

278 100

139 48.3 16.3 24.5#

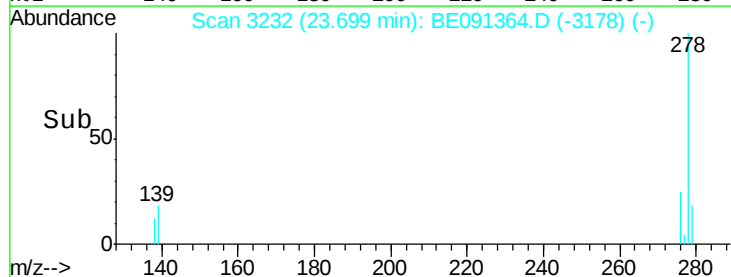
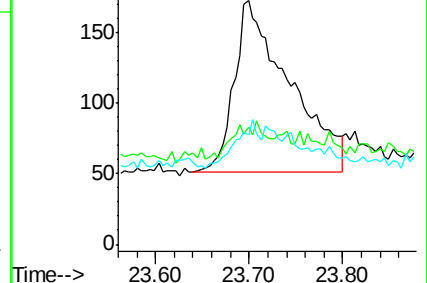
279 44.8 19.4 29.2#

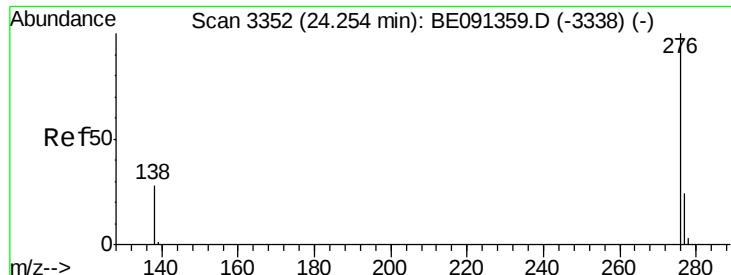


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#29

Benzo(g,h,i)perylene

Concen: 0.34 ng

RT: 24.21 min Scan# 3345

Delta R.T. -0.04 min

Lab File: BE091364.D

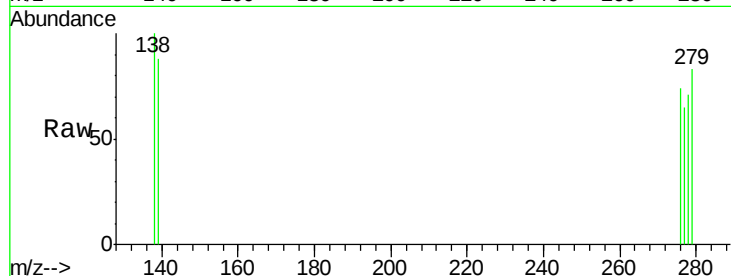
Acq: 14 Jan 2016 23:36

Instrument :

BNA_E

ClientSampleId :

PB87820BL



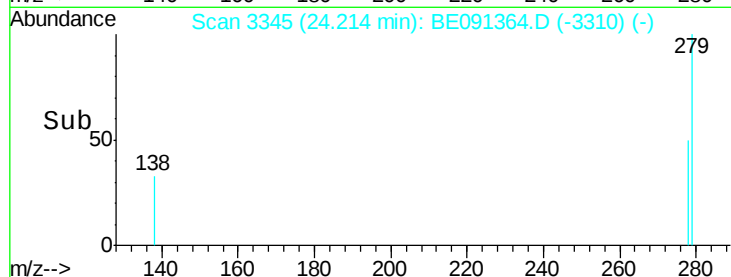
Tgt Ion: 276 Resp: 8

Ion Ratio Lower Upper

276 100

277 87.7 19.8 29.6#

138 135.1 23.3 34.9#



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

