

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020416\
 Data File : BE091387.D
 Acq On : 4 Feb 2016 9:48
 Operator : UM/IZ
 Sample : PB87602BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB87602BL

Quant Time: Feb 05 06:32:18 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	51715	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	239162	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	160388	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	409750	5.00	ng	0.00
18) Chrysene-d12	20.22	240	415582	5.00	ng	0.00
24) Perylene-d12	22.10	264	375438	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	86263	7.05	ng	-0.03
3) Phenol-d6	6.54	99	115869	6.69	ng	-0.03
5) Nitrobenzene-d5	8.18	82	46022	3.02	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	29176	3.90	ng	0.00
10) 2-Fluorobiphenyl	12.02	172	161075	3.86	ng	0.00
20) Terphenyl-d14	18.61	244	266220	4.33	ng	0.00

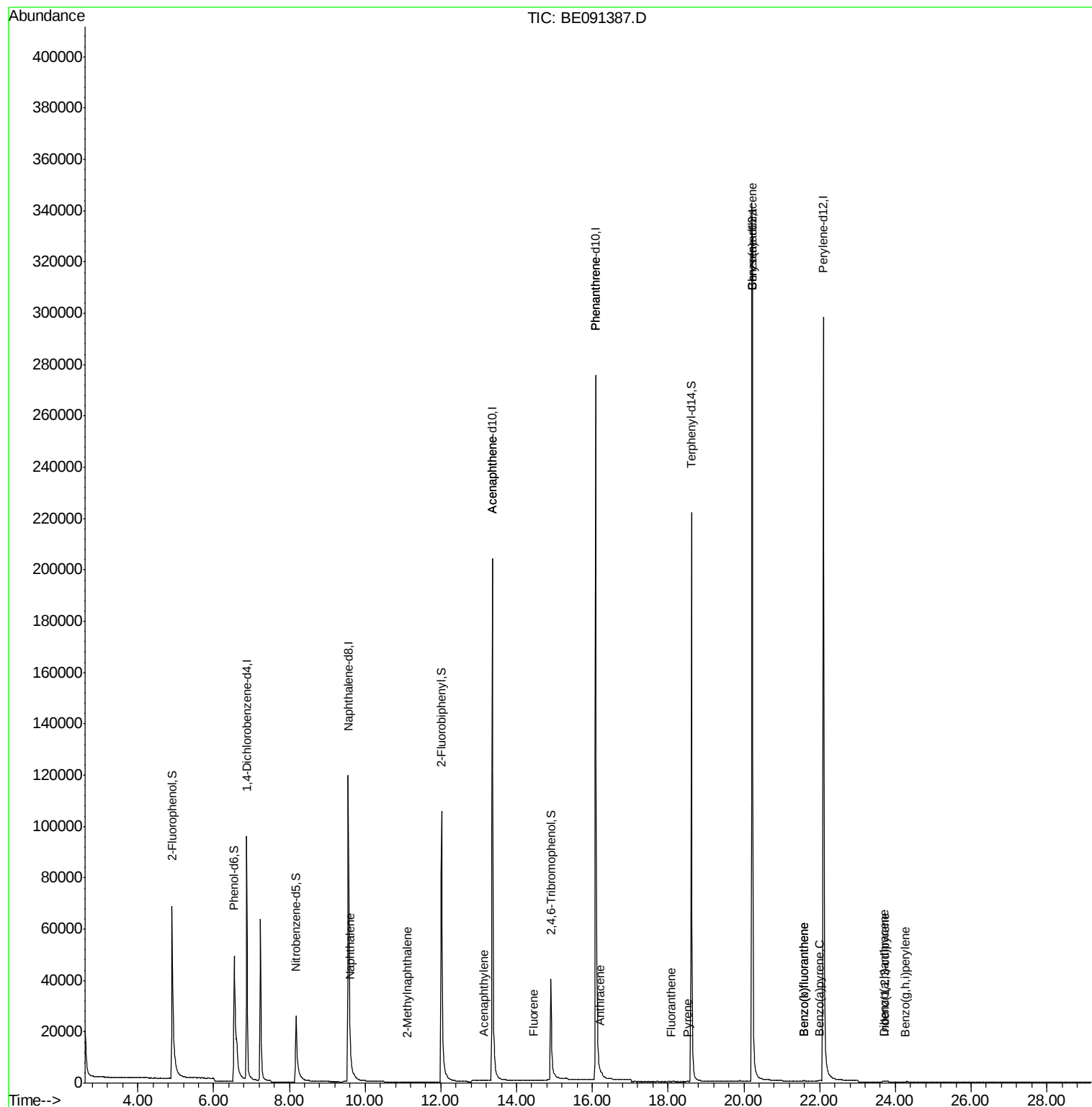
Target Compounds						Qvalue
6) Naphthalene	9.61	128	30	0.00	ng	# 1
7) 2-Methylnaphthalene	11.12	142	4	0.13	ng	# 42
11) Acenaphthylene	13.14	152	77	0.18	ng	# 72
12) Acenaphthene	13.35	154	676	0.02	ng	# 1
13) Fluorene	14.44	166	23	0.00	ng	# 5
15) Phenanthrene	16.09	178	330	0.00	ng	# 1
16) Anthracene	16.21	178	39	0.00	ng	# 31
17) Fluoranthene	18.09	202	3	0.12	ng	# 1
19) Pyrene	18.50	202	38	0.00	ng	# 36
21) Benzo(a)anthracene	20.21	228	1317	0.18	ng	# 78
22) Chrysene	20.21	228	1317	Below Cal		# 76
23) Indeno(1,2,3-cd)pyrene	23.73	276	308	0.17	ng	# 74
25) Benzo(b)fluoranthene	21.57	252	153	0.15	ng	# 1
26) Benzo(k)fluoranthene	21.57	252	160	0.02	ng	# 1
27) Benzo(a)pyrene	22.00	252	129	0.17	ng	# 1
28) Dibenzo(a,h)anthracene	23.70	278	395	0.25	ng	# 46
29) Benzo(g,h,i)perylene	24.25	276	75	0.14	ng	# 1

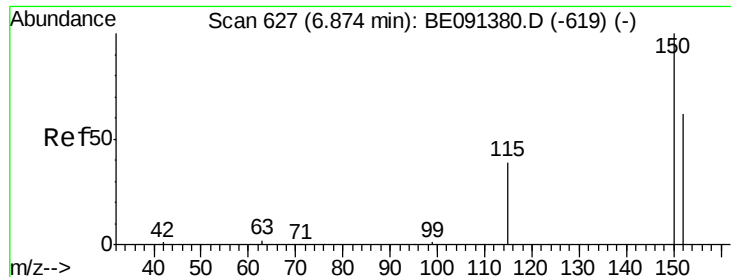
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 627

Delta R.T. 0.00 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

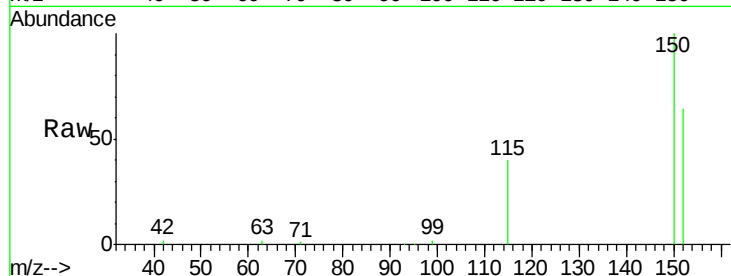
Tgt Ion:152 Resp: 51715

Ion Ratio Lower Upper

152 100

150 157.3 128.9 193.3

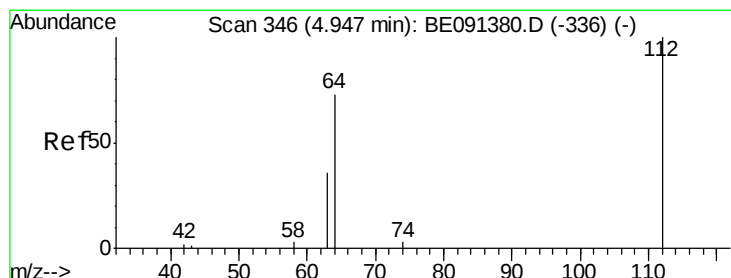
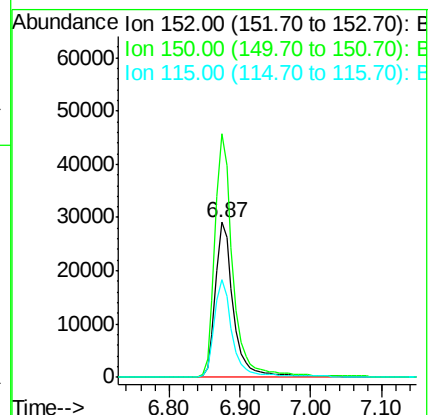
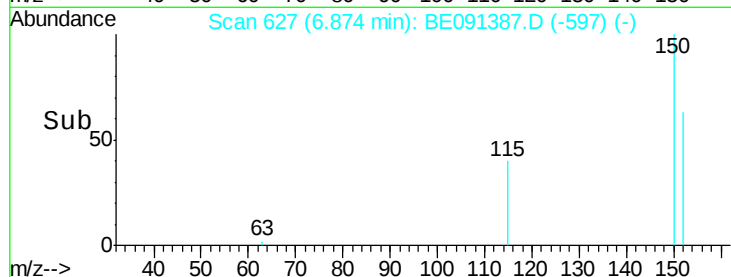
115 63.2 50.9 76.3



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

2-Fluorophenol

Concen: 7.05 ng

RT: 4.91 min Scan# 341

Delta R.T. -0.03 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

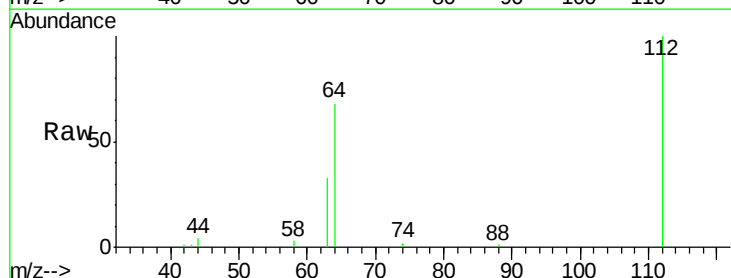
Tgt Ion:112 Resp: 86263

Ion Ratio Lower Upper

112 100

64 72.3 60.5 90.7

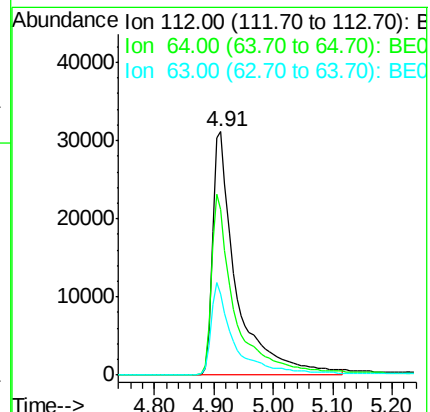
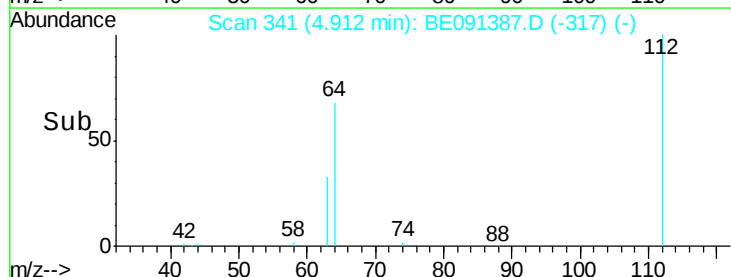
63 36.3 29.8 44.8

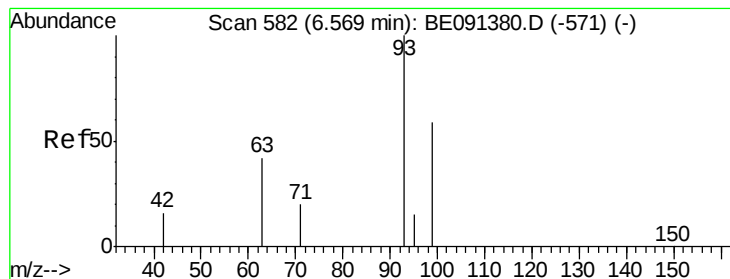


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 6.69 ng

RT: 6.54 min Scan# 578

Delta R.T. -0.03 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

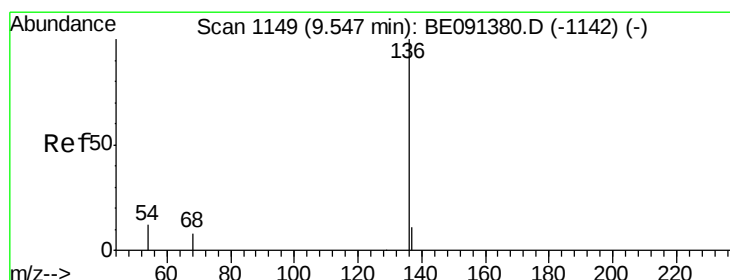
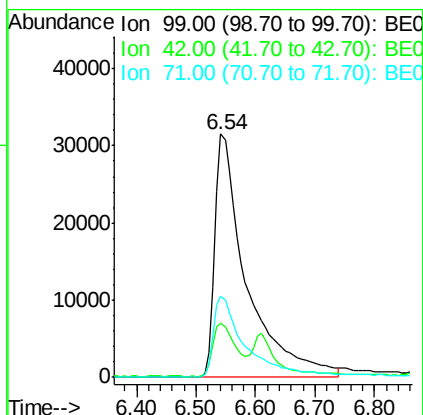
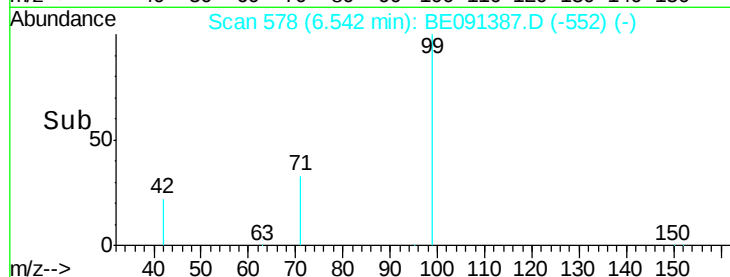
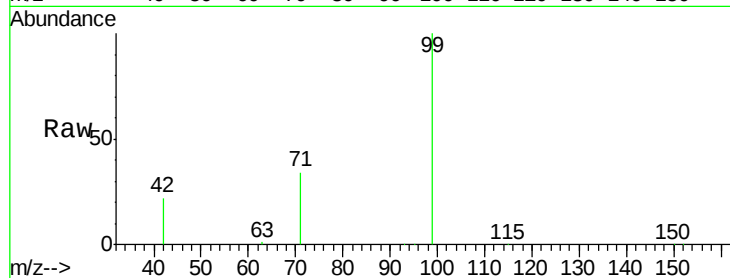
Tgt Ion: 99 Resp: 115869

Ion Ratio Lower Upper

99 100

42 15.6 13.3 19.9

71 33.4 25.6 38.4



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1150

Delta R.T. 0.01 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Tgt Ion: 136 Resp: 239162

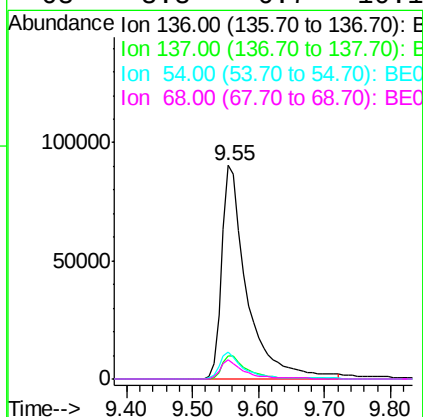
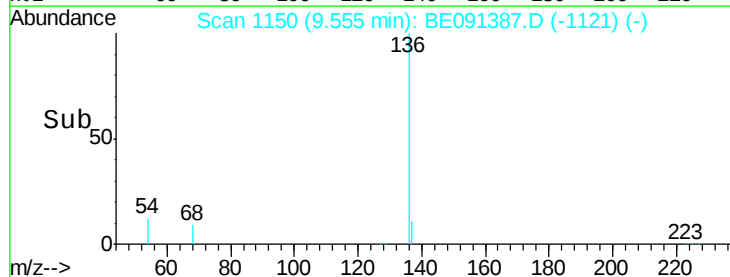
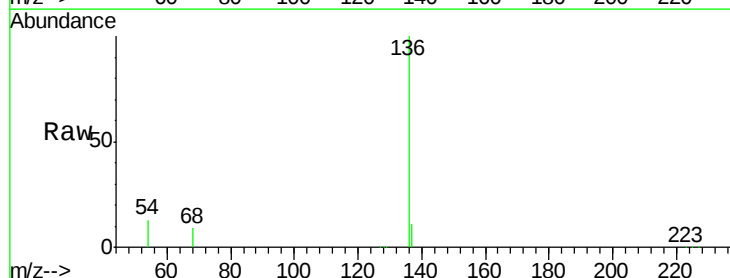
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 12.5 9.3 13.9

68 8.8 6.7 10.1





#5

Nitrobenzene-d5

Concen: 3.02 ng

RT: 8.18 min Scan# 864

Delta R.T. 0.01 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

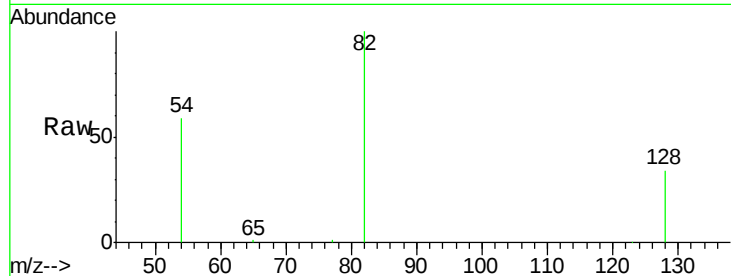
Tgt Ion: 82 Resp: 46022

Ion Ratio Lower Upper

82 100

128 33.7 25.0 37.4

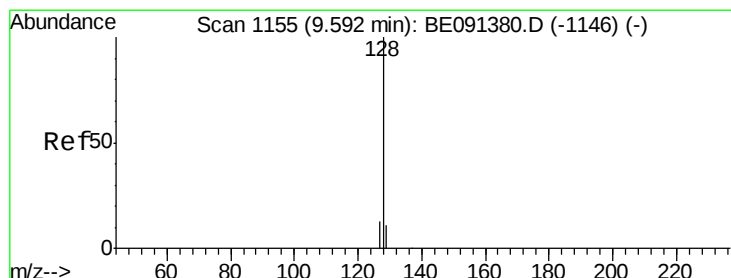
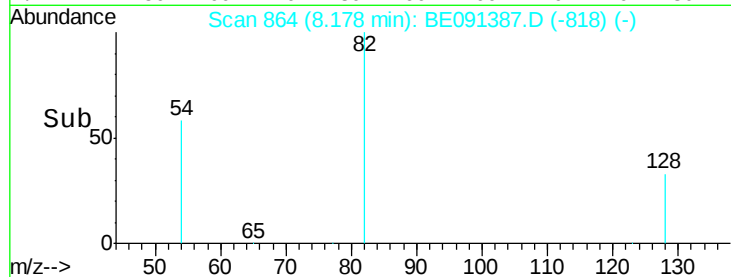
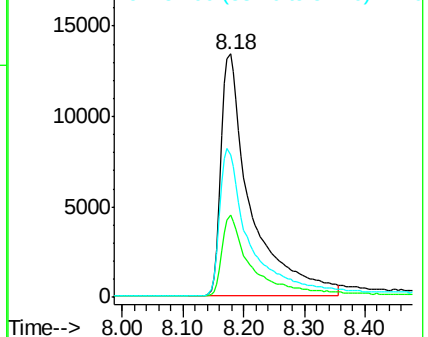
54 58.7 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE091387.D (-818) (-)

Ion 128.00 (127.70 to 128.70): BE091387.D (-818) (-)

Ion 54.00 (53.70 to 54.70): BE091387.D (-818) (-)



#6

Naphthalene

Concen: 0.00 ng

RT: 9.61 min Scan# 1157

Delta R.T. 0.02 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

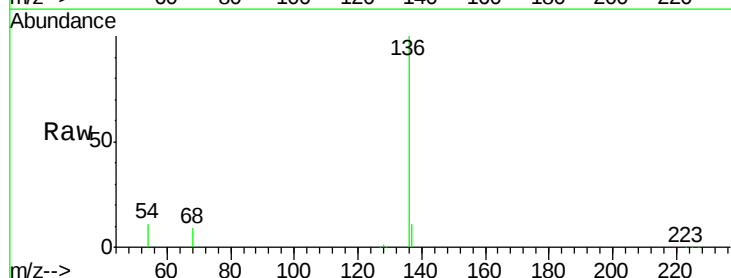
Tgt Ion: 128 Resp: 30

Ion Ratio Lower Upper

128 100

129 73.6 9.1 13.7#

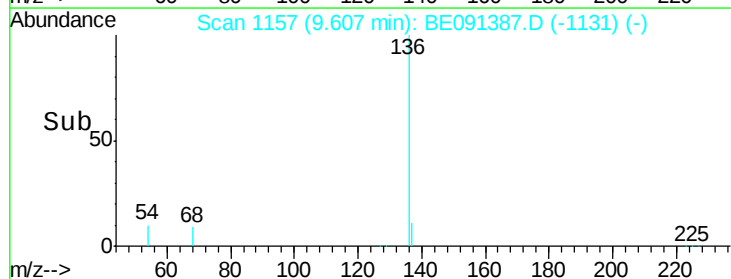
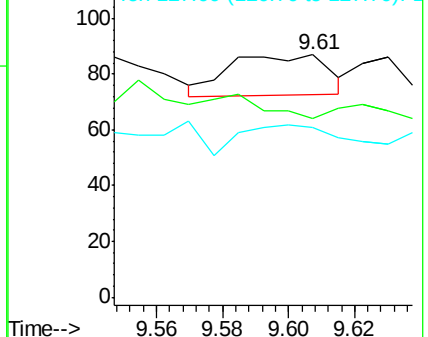
127 70.1 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): BE091387.D (-1131) (-)

Ion 129.00 (128.70 to 129.70): BE091387.D (-1131) (-)

Ion 127.00 (126.70 to 127.70): BE091387.D (-1131) (-)





#7

2-Methylnaphthalene

Concen: 0.13 ng

RT: 11.12 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

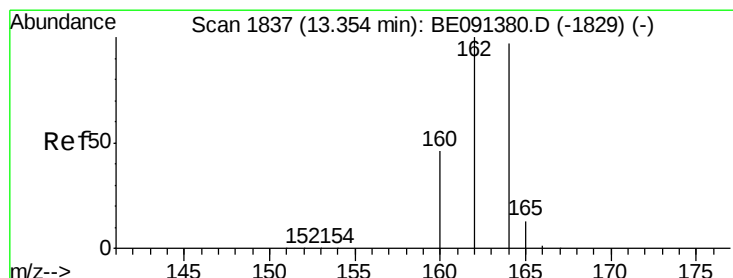
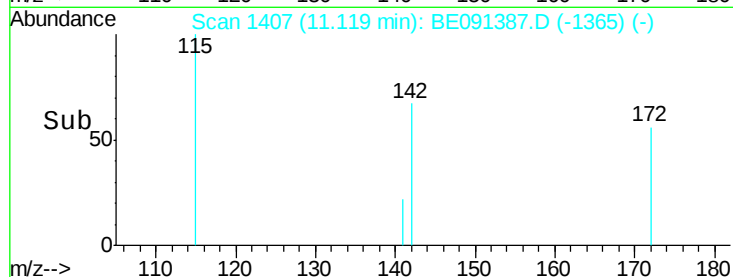
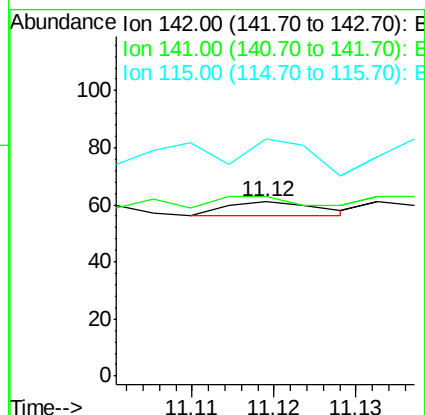
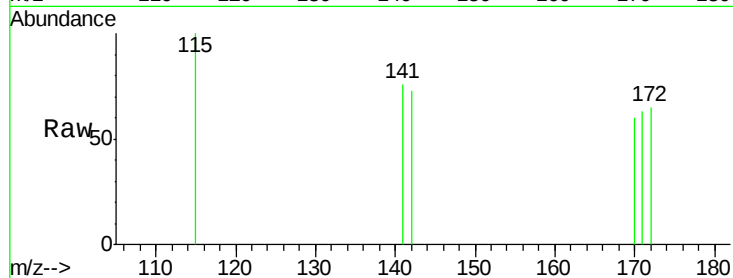
BNA_E

ClientSampleId :

PB87602BL

Tgt Ion:142 Resp: 4

Ion	Ratio	Lower	Upper
142	100		
141	103.3	72.3	108.5
115	136.1	30.5	45.7



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.36 min Scan# 1838

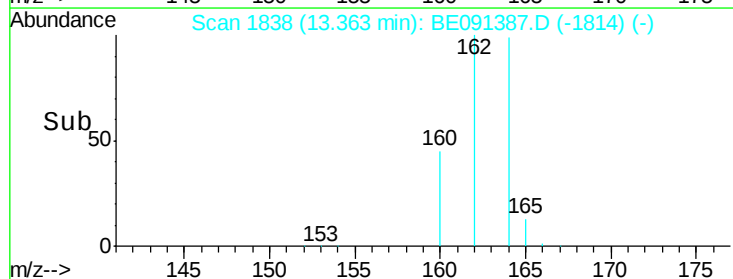
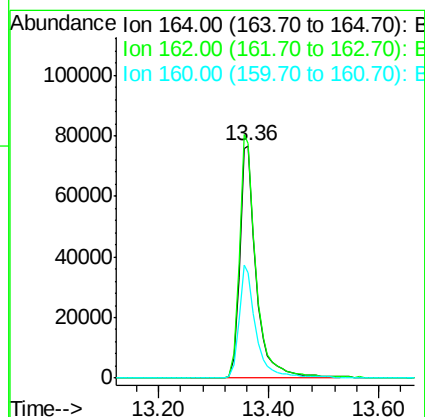
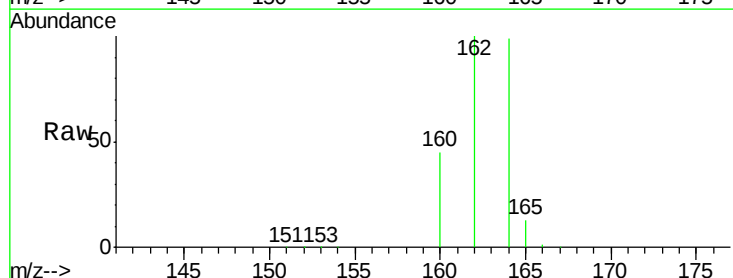
Delta R.T. 0.01 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Tgt Ion:164 Resp: 160388

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	45.2	37.8	56.8





#9

2,4,6-Tribromophenol

Concen: 3.90 ng

RT: 14.90 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

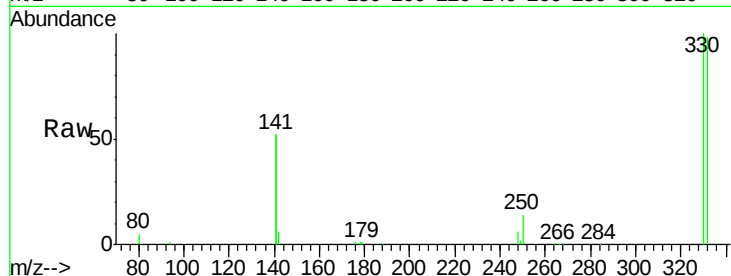
Tgt Ion:330 Resp: 29176

Ion Ratio Lower Upper

330 100

332 96.5 78.8 118.2

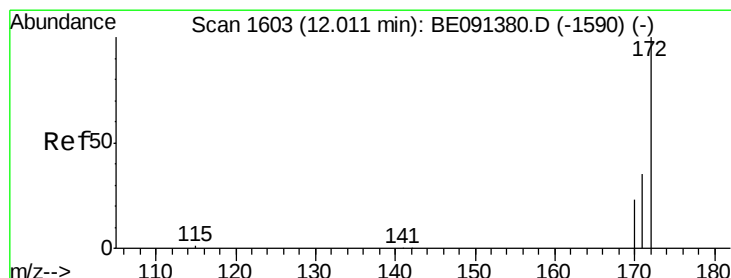
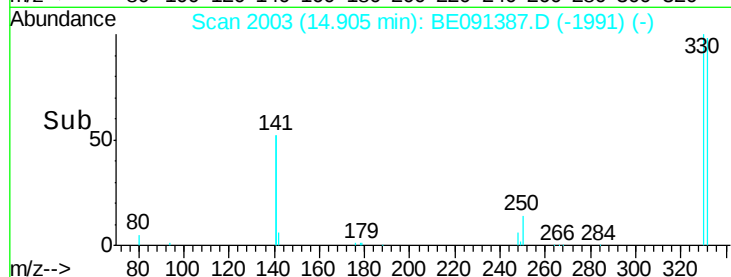
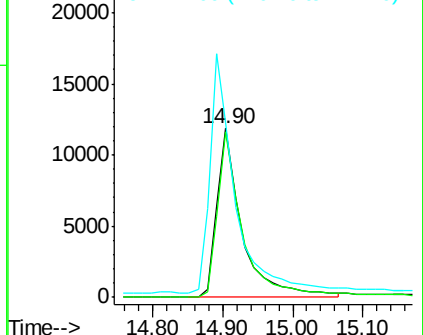
141 144.2 105.1 157.7



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: 3.86 ng

RT: 12.02 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

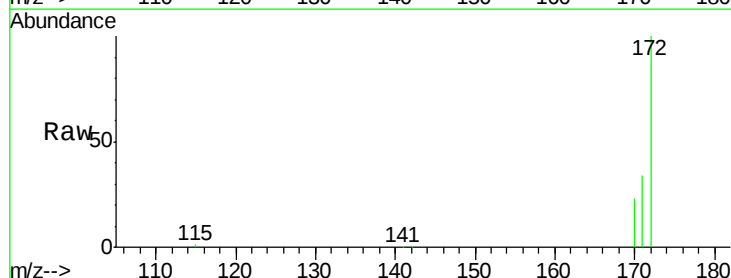
Tgt Ion:172 Resp: 161075

Ion Ratio Lower Upper

172 100

171 34.5 27.8 41.8

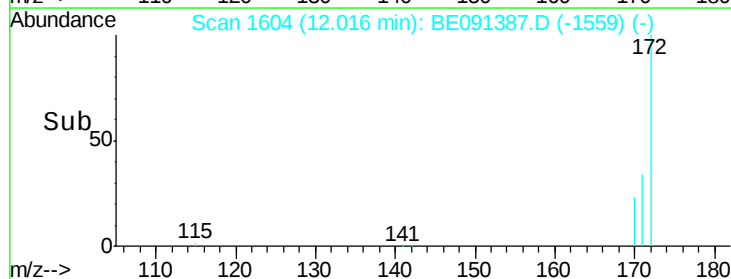
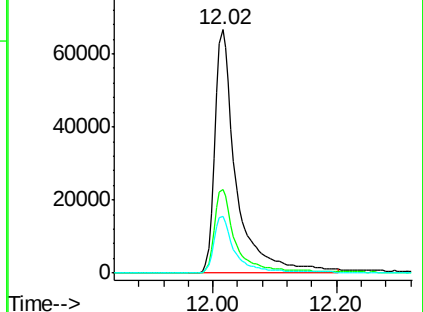
170 23.5 18.6 28.0

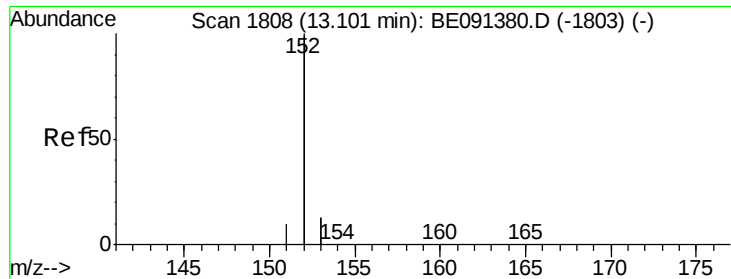


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.18 ng

RT: 13.14 min Scan# 1812

Delta R.T. 0.04 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

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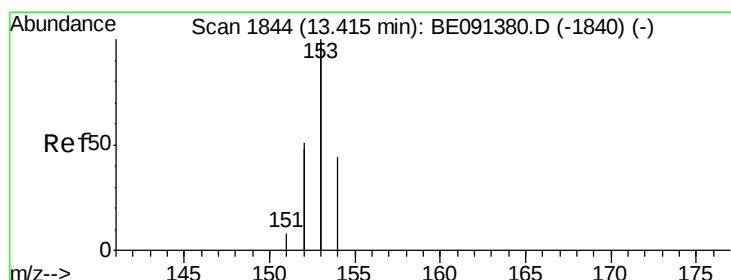
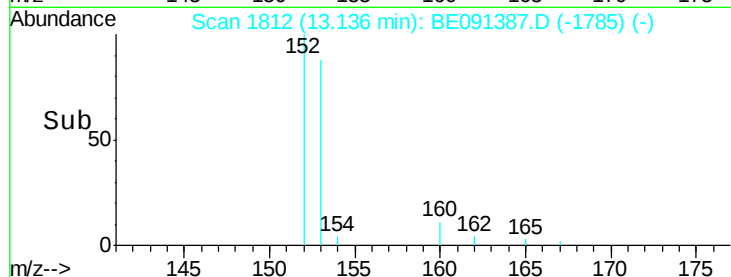
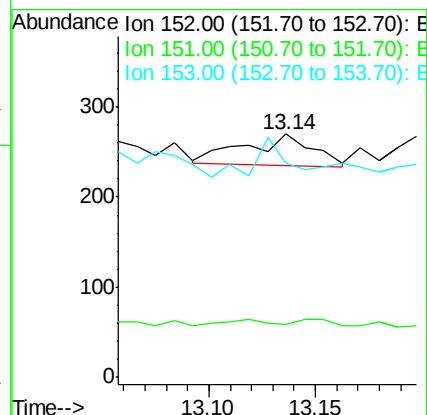
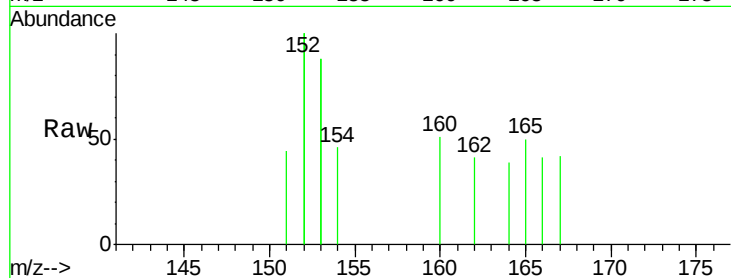
Tgt Ion:152 Resp: 77

Ion Ratio Lower Upper

152 100

151 10.4 3.8 5.8#

153 0.0 10.2 15.4#



#12

Acenaphthene

Concen: 0.02 ng

RT: 13.35 min Scan# 1837

Delta R.T. -0.06 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

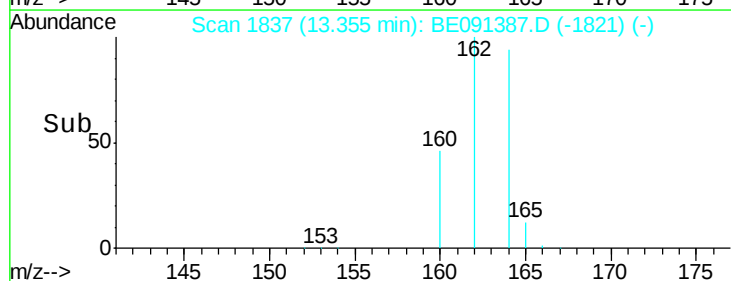
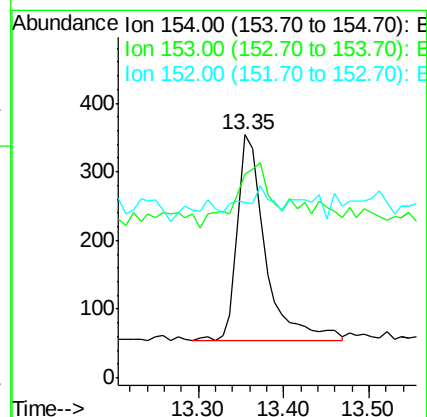
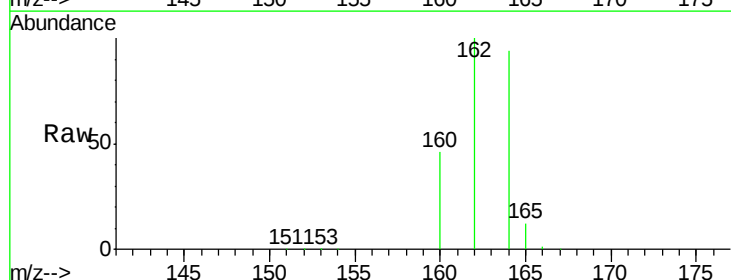
Tgt Ion:154 Resp: 676

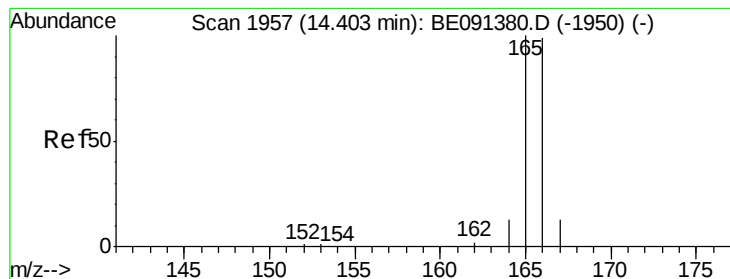
Ion Ratio Lower Upper

154 100

153 39.1 369.8 554.8#

152 16.3 194.4 291.6#





#13

Fluorene

Concen: 0.00 ng

RT: 14.44 min Scan# 1961

Delta R.T. 0.04 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

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PB87602BL

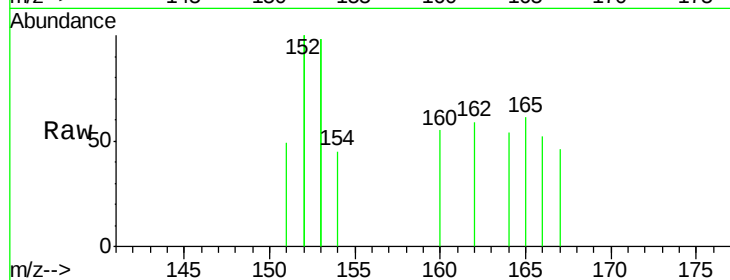
Tgt Ion:166 Resp: 23

Ion Ratio Lower Upper

166 100

165 0.0 79.3 118.9#

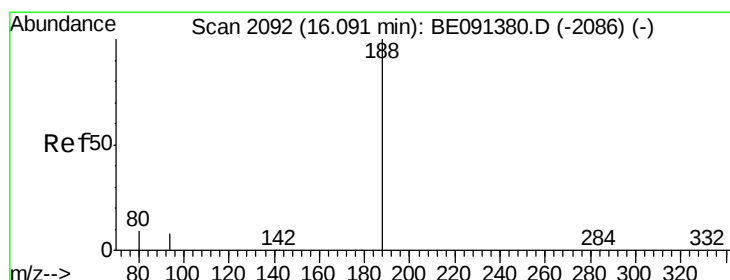
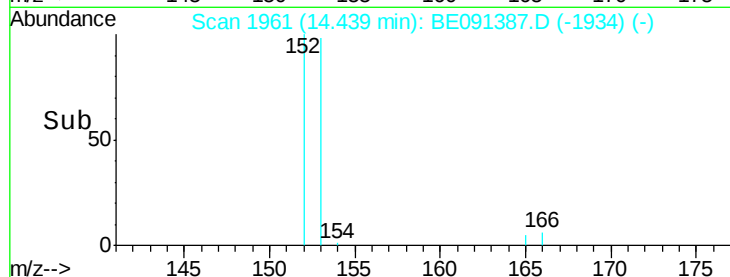
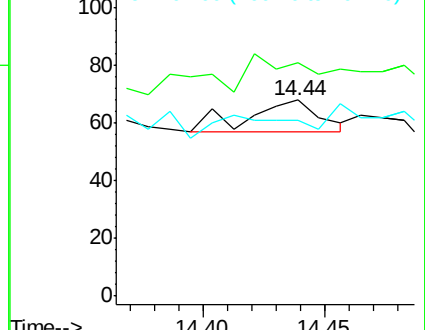
167 39.1 10.6 16.0#



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# 2092

Delta R.T. 0.00 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

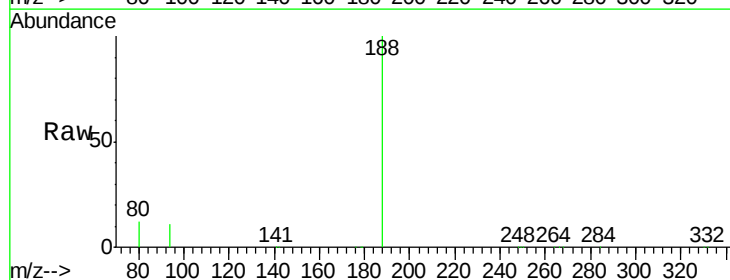
Tgt Ion:188 Resp: 409750

Ion Ratio Lower Upper

188 100

94 10.9 6.6 10.0#

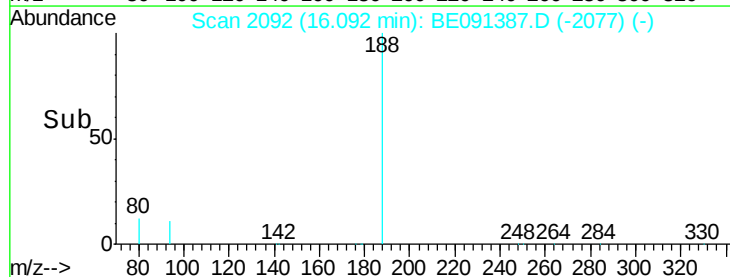
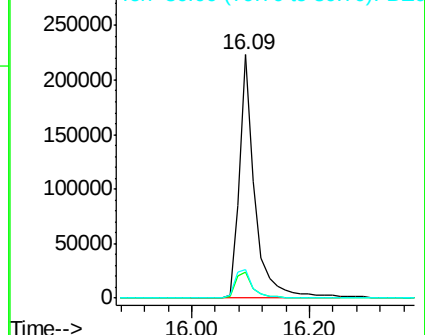
80 11.8 7.0 10.6#

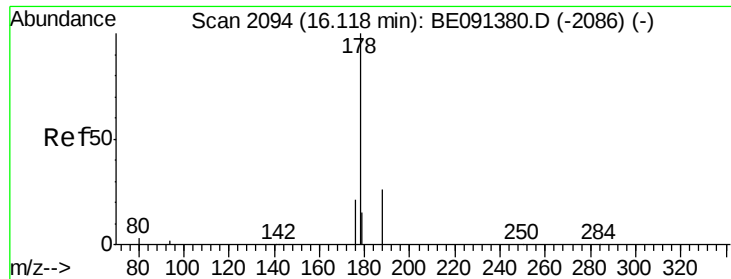


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#15

Phenanthrene

Concen: 0.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. -0.03 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

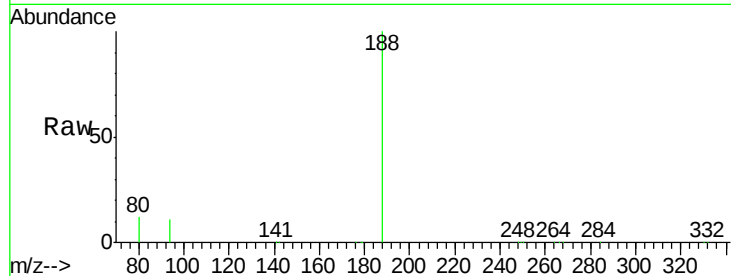
Tgt Ion:178 Resp: 330

Ion Ratio Lower Upper

178 100

176 25.8 15.4 23.2#

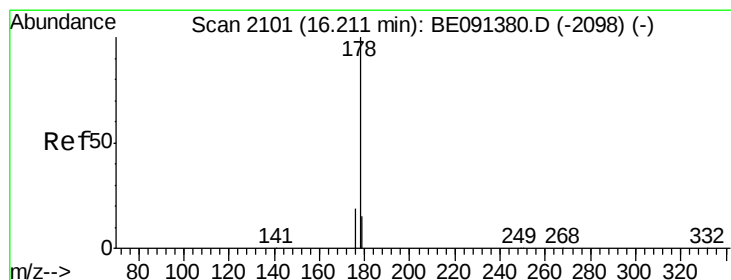
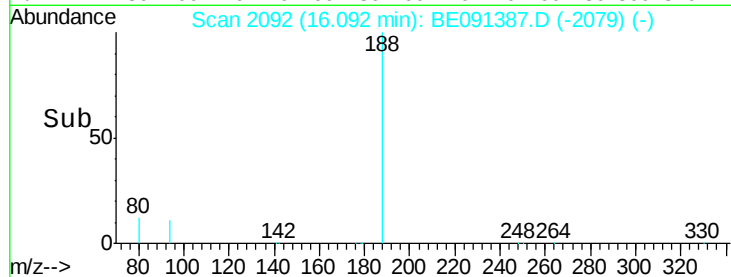
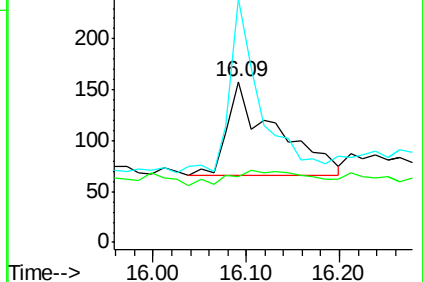
179 114.8 12.7 19.1#



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



#16

Anthracene

Concen: 0.00 ng

RT: 16.21 min Scan# 2101

Delta R.T. 0.00 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

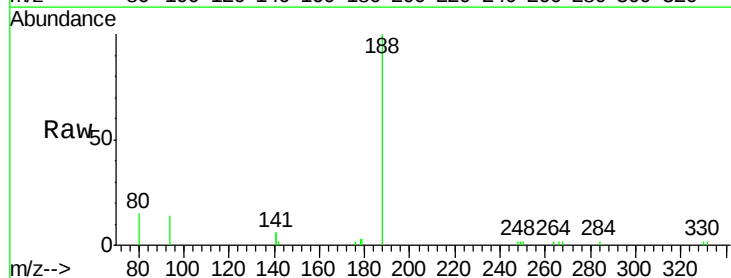
Tgt Ion:178 Resp: 39

Ion Ratio Lower Upper

178 100

176 61.5 14.8 22.2#

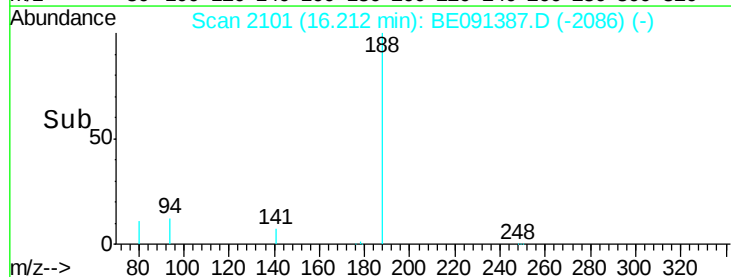
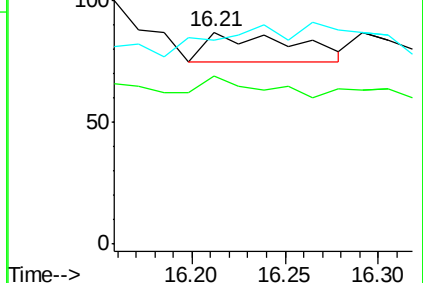
179 0.0 12.1 18.1#

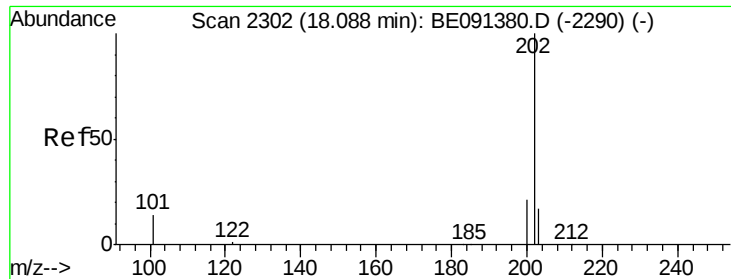


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

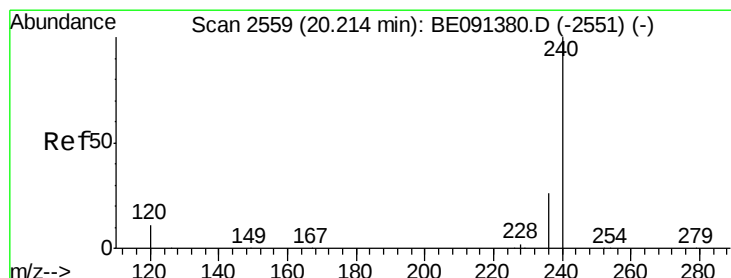
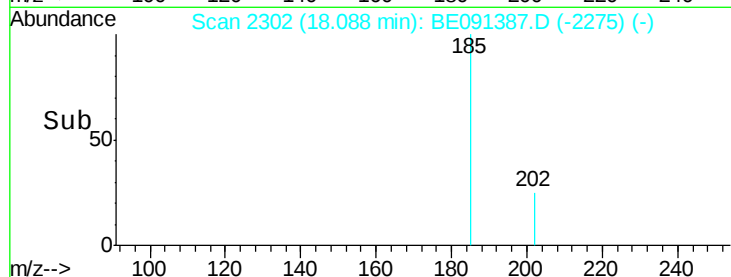
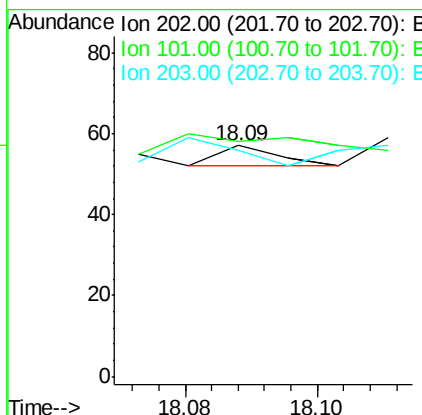
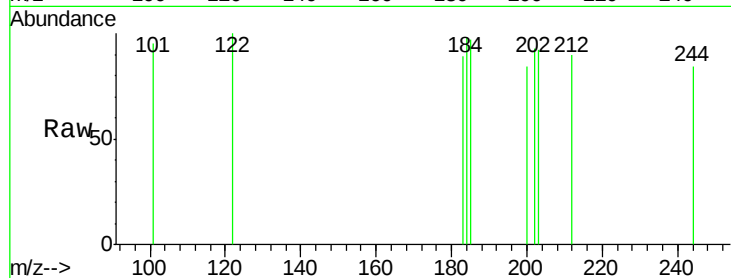




#17
 Fluoranthene
 Concen: 0.12 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BE091387.D
 Acq: 4 Feb 2016 9:48

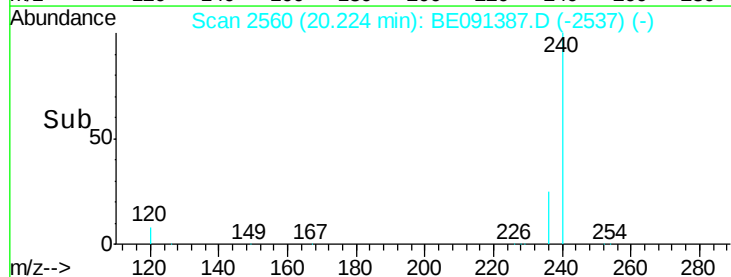
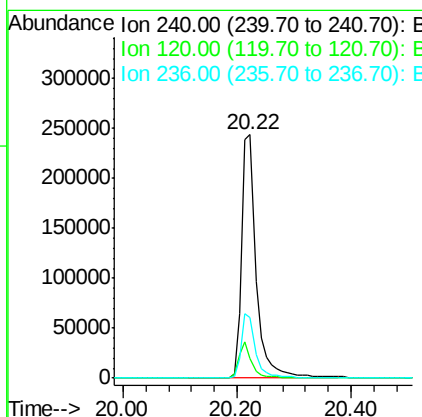
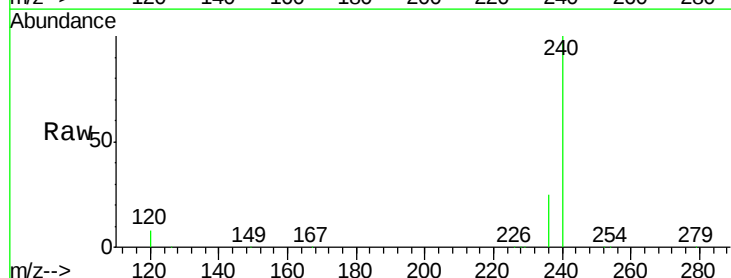
Instrument :
 BNA_E
 ClientSampleId :
 PB87602BL

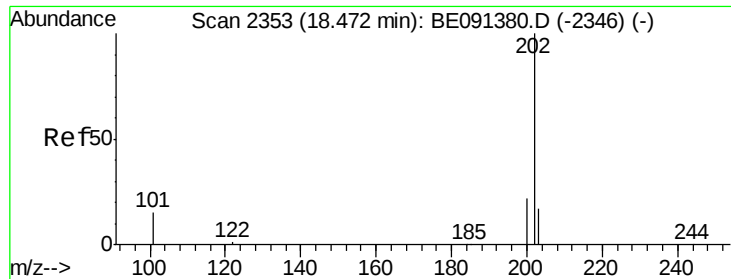
Tgt Ion: 202 Resp: 3
 Ion Ratio Lower Upper
 202 100
 101 233.3 10.5 15.7#
 203 0.0 13.9 20.9#



#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.01 min
 Lab File: BE091387.D
 Acq: 4 Feb 2016 9:48

Tgt Ion: 240 Resp: 415582
 Ion Ratio Lower Upper
 240 100
 120 7.8 8.9 13.3#
 236 24.9 21.0 31.4





#19

Pyrene

Concen: 0.00 ng

RT: 18.50 min Scan# 2357

Delta R.T. 0.03 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

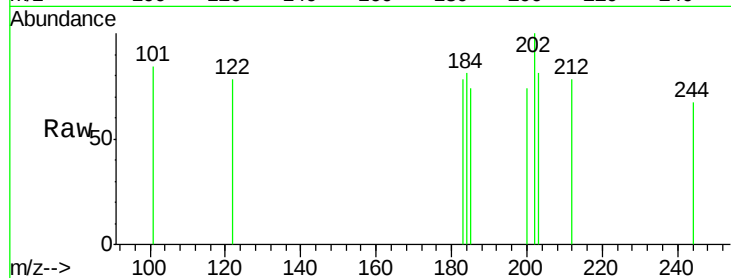
Tgt Ion:202 Resp: 38

Ion Ratio Lower Upper

202 100

200 0.0 16.8 25.2#

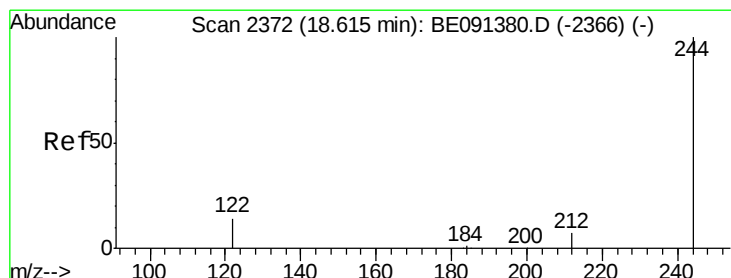
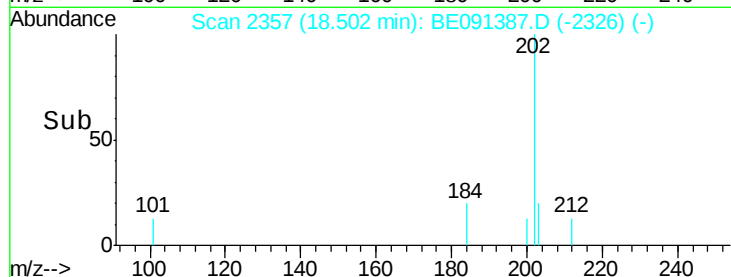
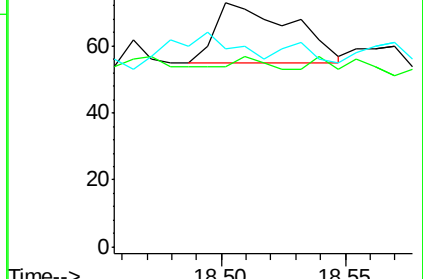
203 55.3 14.0 21.0#



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: 4.33 ng

RT: 18.61 min Scan# 2372

Delta R.T. -0.00 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

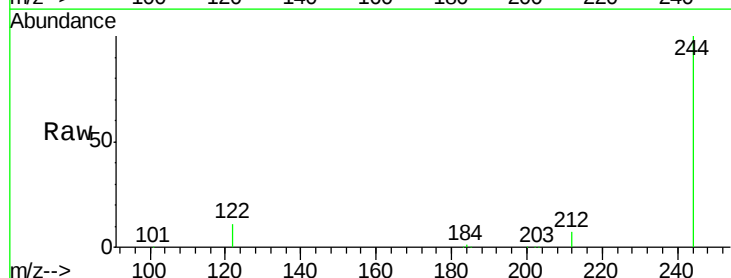
Tgt Ion:244 Resp: 266220

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

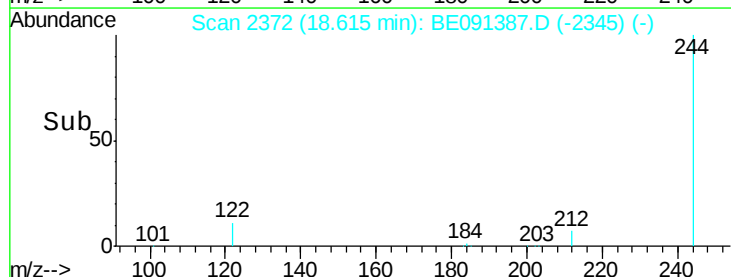
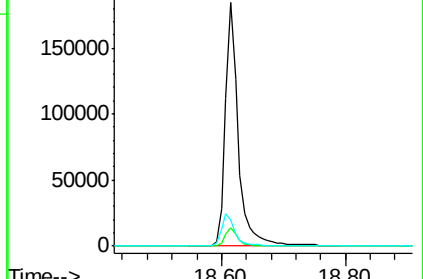
122 10.6 11.0 16.6#

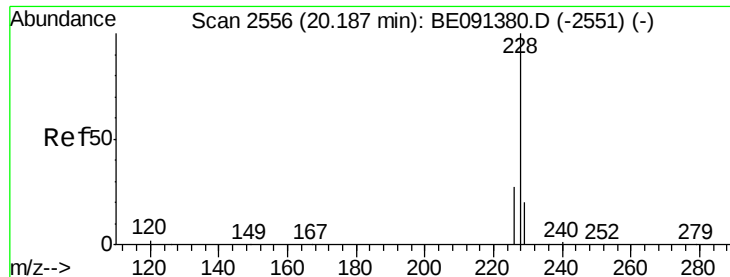


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.18 ng

RT: 20.21 min Scan# 2559

Delta R.T. 0.03 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

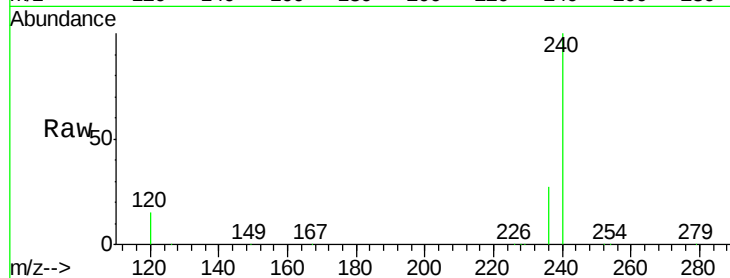
Tgt Ion:228 Resp: 1317

Ion Ratio Lower Upper

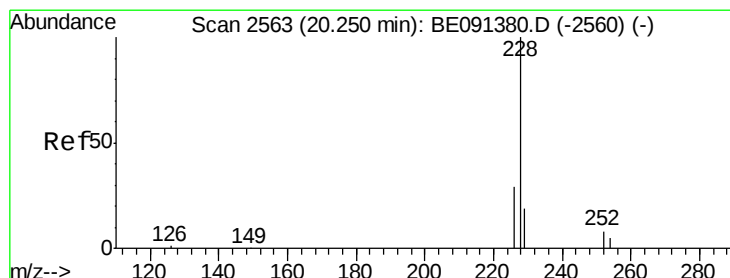
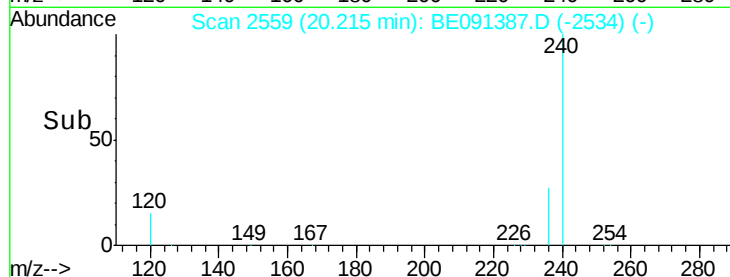
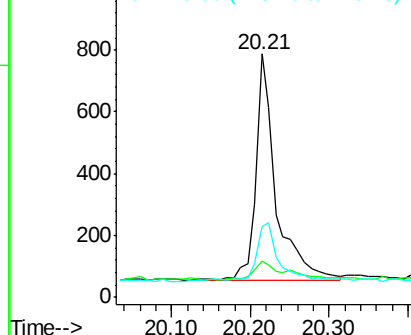
228 100

226 15.0 21.7 32.5#

229 29.1 16.1 24.1#



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



#22

Chrysene

Concen: Below Cal

RT: 20.21 min Scan# 2559

Delta R.T. -0.04 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

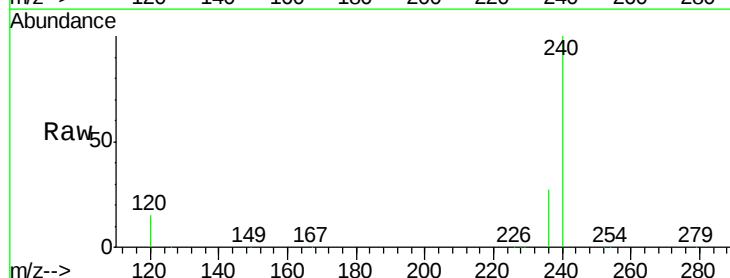
Tgt Ion:228 Resp: 1317

Ion Ratio Lower Upper

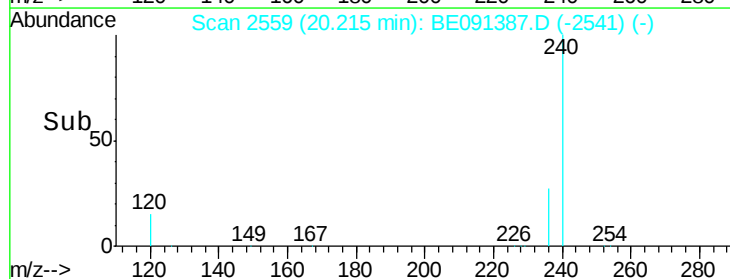
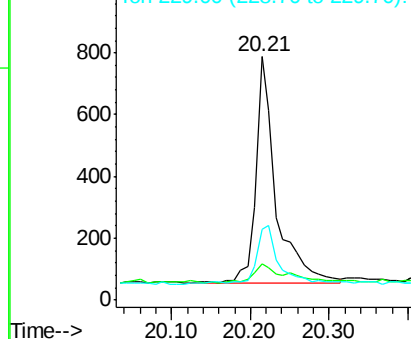
228 100

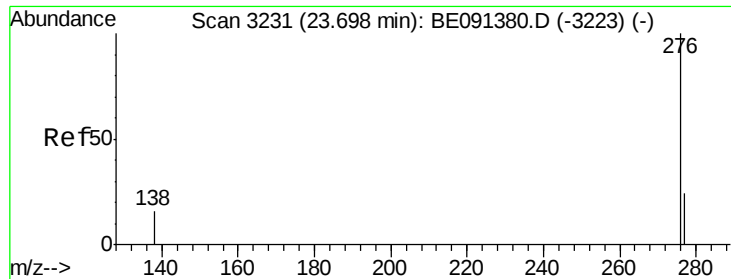
226 15.0 23.4 35.0#

229 29.1 15.7 23.5#



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





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.17 ng

RT: 23.73 min Scan# 3236

Delta R.T. 0.03 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

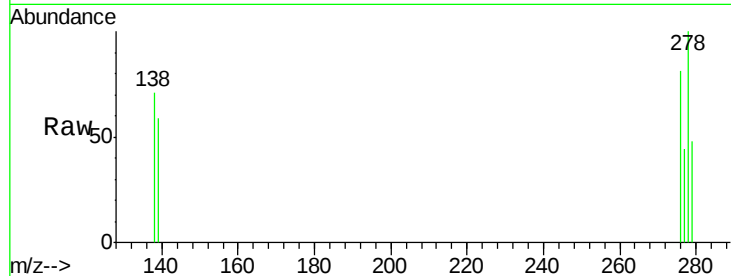
Tgt Ion: 276 Resp: 308

Ion Ratio Lower Upper

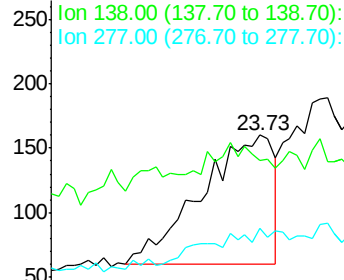
276 100

138 8.1 16.6 25.0#

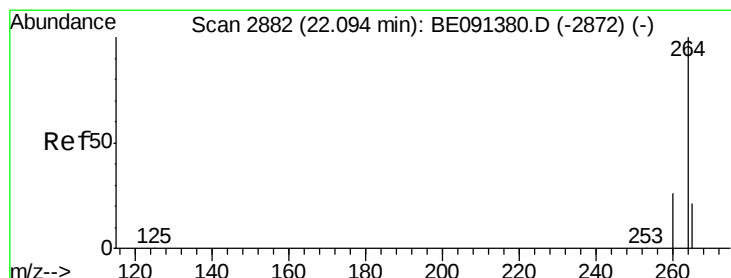
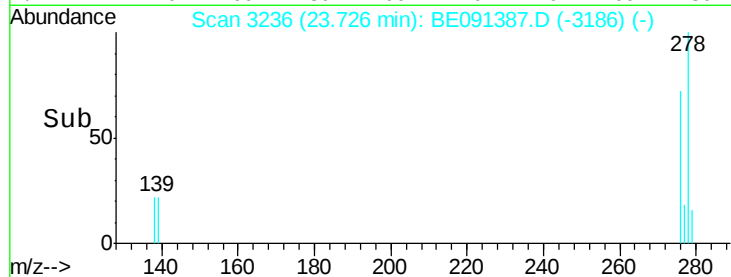
277 11.4 19.0 28.6#



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



Time--> 23.60 23.65 23.70 23.75



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2883

Delta R.T. 0.01 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

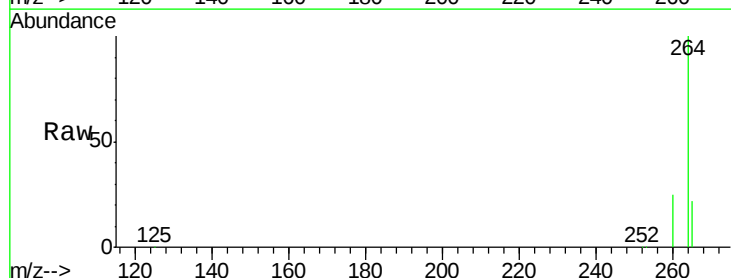
Tgt Ion: 264 Resp: 375438

Ion Ratio Lower Upper

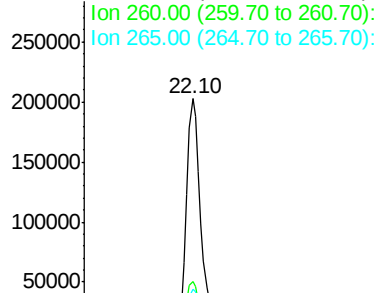
264 100

260 24.9 20.7 31.1

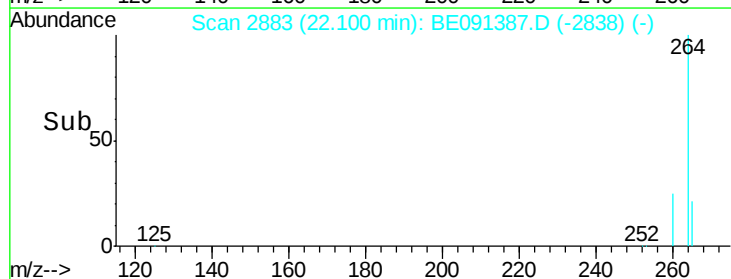
265 21.6 17.2 25.8



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



Time--> 22.00 22.20





#25

Benzo(b)fluoranthene

Concen: 0.15 ng

RT: 21.57 min Scan# 2766

Delta R.T. 0.02 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

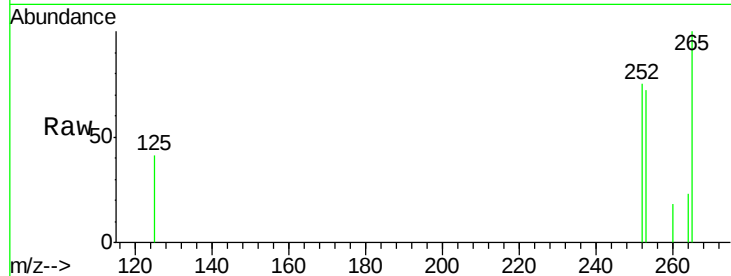
Tgt Ion:252 Resp: 153

Ion Ratio Lower Upper

252 100

253 95.7 18.2 27.2#

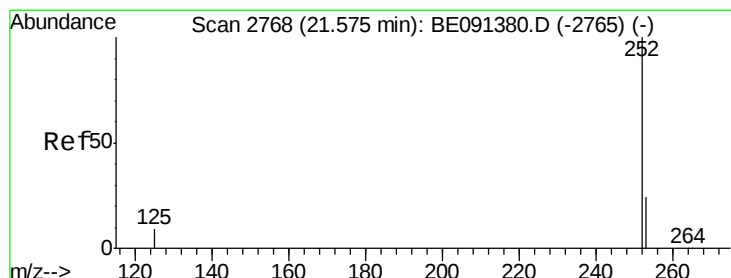
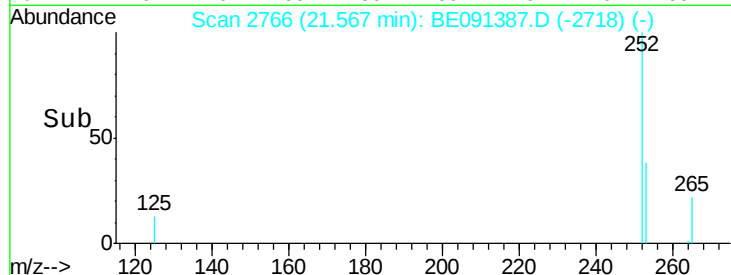
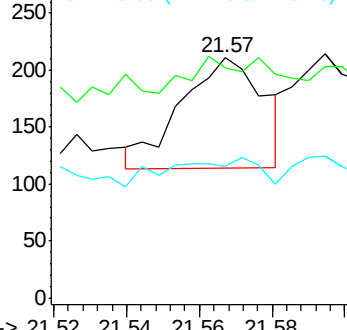
125 54.5 8.3 12.5#



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: 0.02 ng

RT: 21.57 min Scan# 2766

Delta R.T. -0.01 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

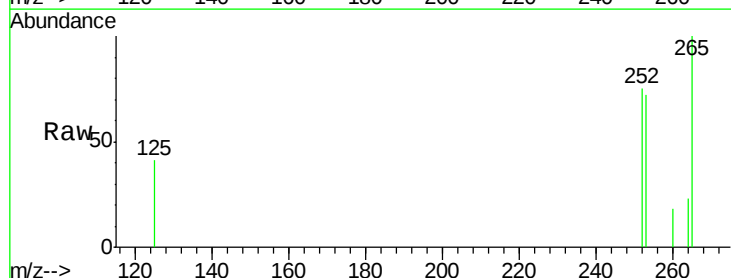
Tgt Ion:252 Resp: 160

Ion Ratio Lower Upper

252 100

253 95.7 18.1 27.1#

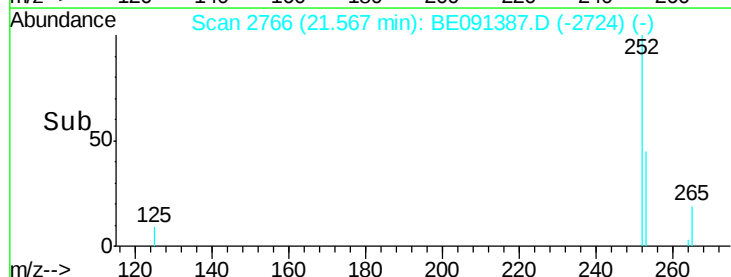
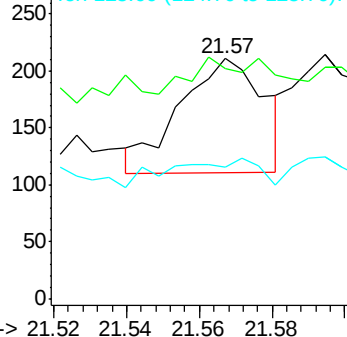
125 54.5 8.2 12.4#

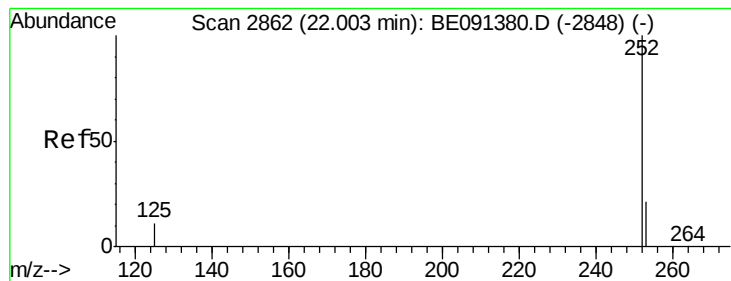


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 0.17 ng

RT: 22.00 min Scan# 2862

Delta R.T. 0.00 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL

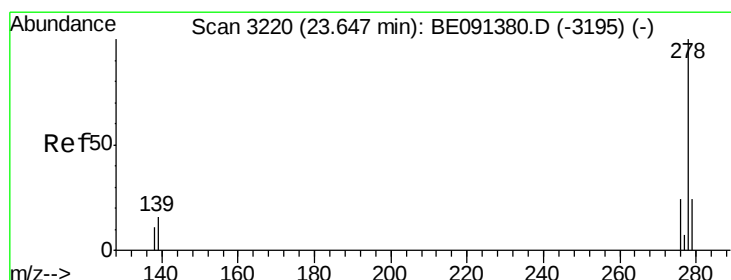
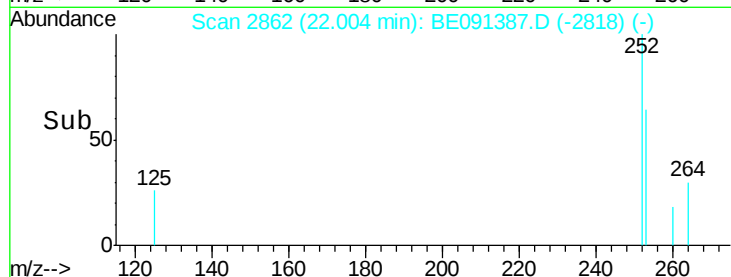
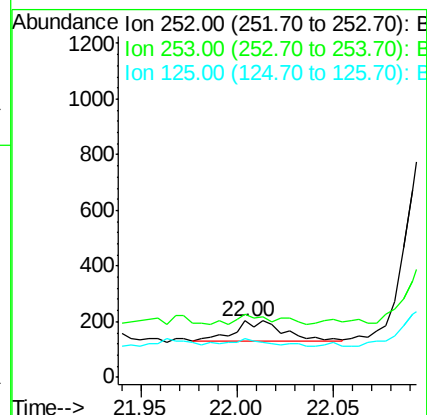
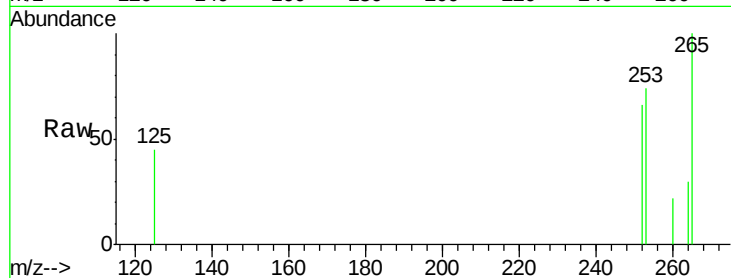
Tgt Ion: 252 Resp: 129

Ion Ratio Lower Upper

252 100

253 111.4 17.5 26.3#

125 68.3 9.4 14.0#



#28

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 23.70 min Scan# 3231

Delta R.T. 0.06 min

Lab File: BE091387.D

Acq: 4 Feb 2016 9:48

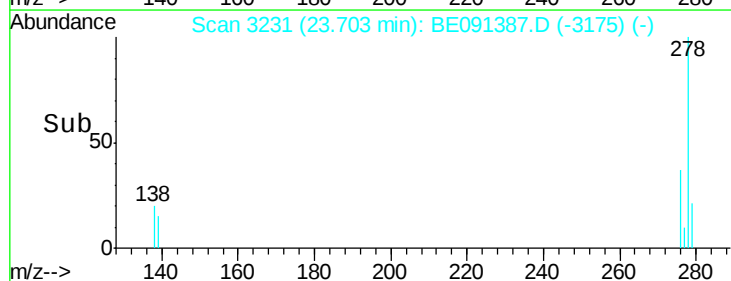
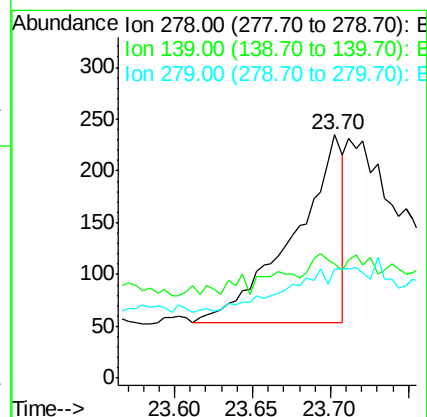
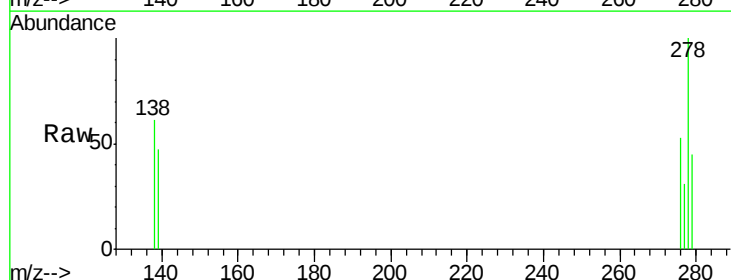
Tgt Ion: 278 Resp: 395

Ion Ratio Lower Upper

278 100

139 46.8 13.0 19.4#

279 44.7 19.2 28.8#





#29

Benzo(g,h,i)perylene

Concen: 0.14 ng

RT: 24.25 min Scan# 3350

Delta R.T. 0.00 min

Lab File: BE091387.D

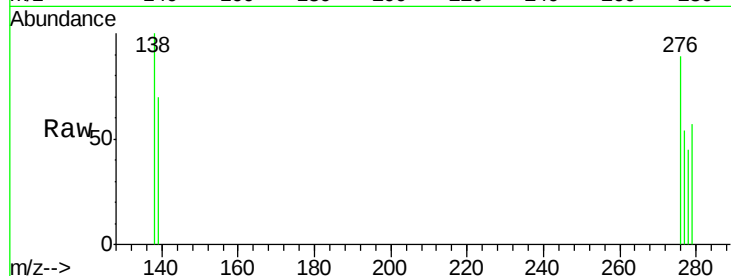
Acq: 4 Feb 2016 9:48

Instrument :

BNA_E

ClientSampleId :

PB87602BL



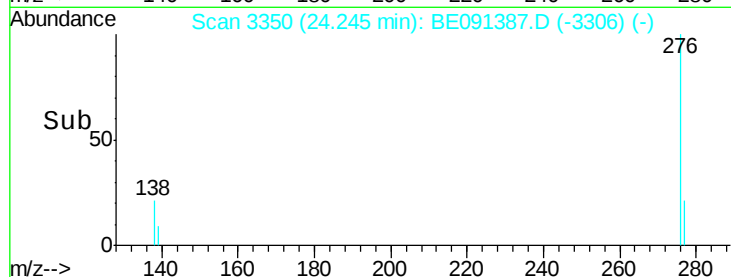
Tgt Ion: 276 Resp: 75

Ion Ratio Lower Upper

276 100

277 60.6 18.9 28.3#

138 111.9 17.0 25.6#



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

