

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020416\
 Data File : BE091388.D
 Acq On : 4 Feb 2016 10:24
 Operator : UM/IZ
 Sample : PB87603BL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB87603BL

Quant Time: Feb 05 06:32:31 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	50034	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	232729	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	152184	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	390906	5.00	ng	0.00
18) Chrysene-d12	20.22	240	416946	5.00	ng	0.00
24) Perylene-d12	22.10	264	375840	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 2-Fluorophenol	4.91	112	81835	6.92	ng	-0.04
3) Phenol-d6	6.55	99	110852	6.62	ng	-0.02
5) Nitrobenzene-d5	8.18	82	43409	2.94	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	26283	3.72	ng	0.00
10) 2-Fluorobiphenyl	12.02	172	154920	3.91	ng	0.00
20) Terphenyl-d14	18.61	244	263577	4.27	ng	0.00

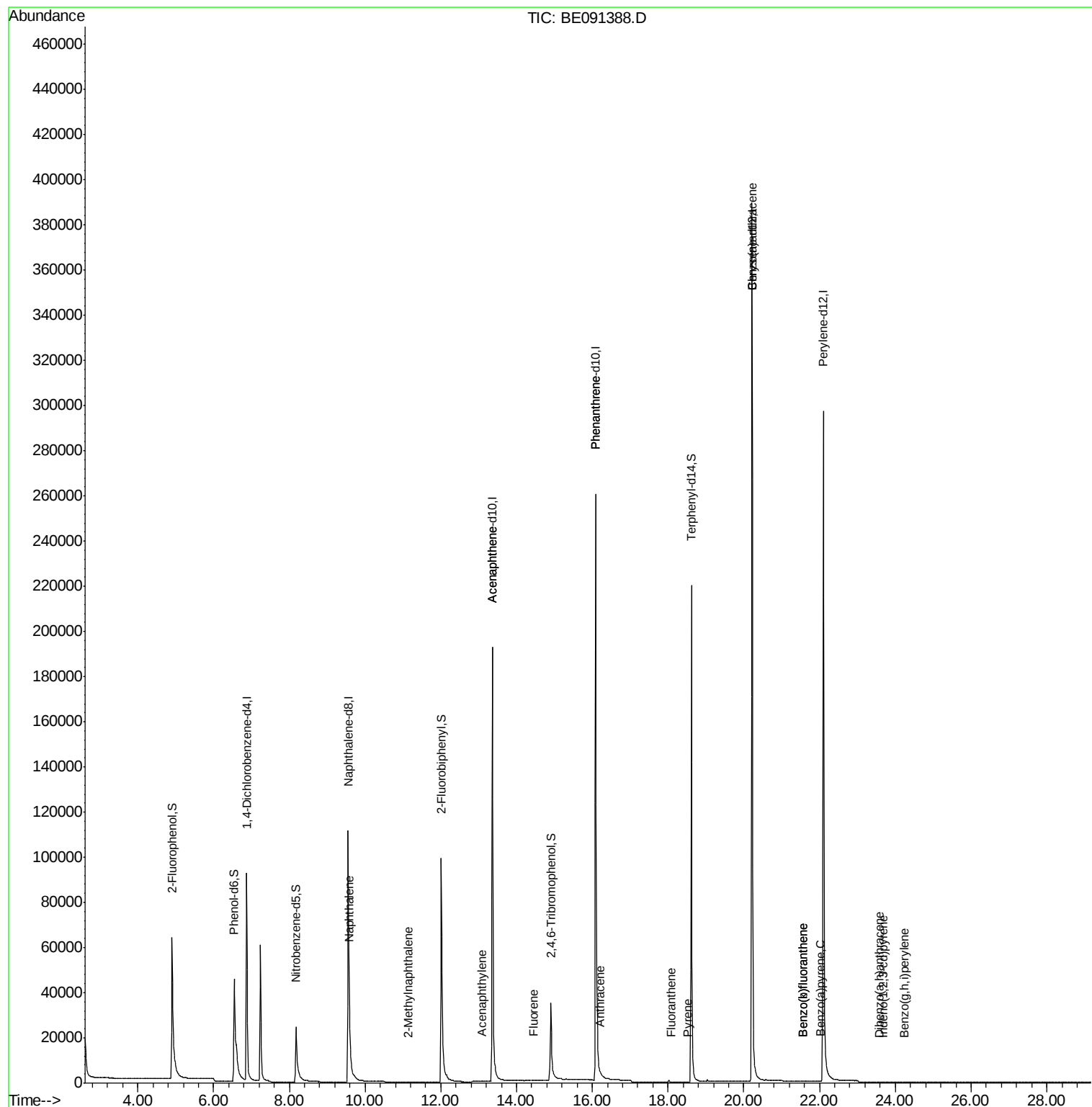
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	9.59	128	56	0.00	ng	# 1
7) 2-Methylnaphthalene	11.14	142	4	0.13	ng	# 55
11) Acenaphthylene	13.08	152	20	0.18	ng	# 73
12) Acenaphthene	13.36	154	677	0.02	ng	# 1
13) Fluorene	14.44	166	20	0.00	ng	# 1
15) Phenanthrene	16.09	178	186	0.00	ng	# 1
16) Anthracene	16.21	178	80	0.00	ng	# 61
17) Fluoranthene	18.08	202	2	0.12	ng	# 63
19) Pyrene	18.52	202	61	0.00	ng	# 67
21) Benzo(a)anthracene	20.22	228	1253	0.18	ng	# 75
22) Chrysene	20.22	228	1253	Below Cal		# 72
23) Indeno(1,2,3-cd)pyrene	23.68	276	3	0.16	ng	# 1
25) Benzo(b)fluoranthene	21.57	252	78	0.15	ng	# 1
26) Benzo(k)fluoranthene	21.57	252	78	0.02	ng	# 1
27) Benzo(a)pyrene	22.02	252	48	0.17	ng	# 1
28) Dibenzo(a,h)anthracene	23.57	278	5	0.25	ng	# 1
29) Benzo(g,h,i)perylene	24.24	276	5	0.14	ng	# 1

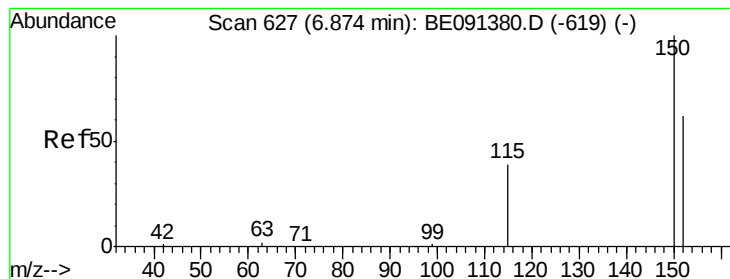
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampleId :

PB87603BL

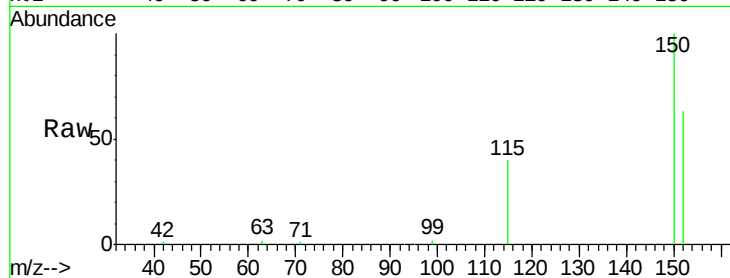
Tgt Ion:152 Resp: 50034

Ion Ratio Lower Upper

152 100

150 159.5 128.9 193.3

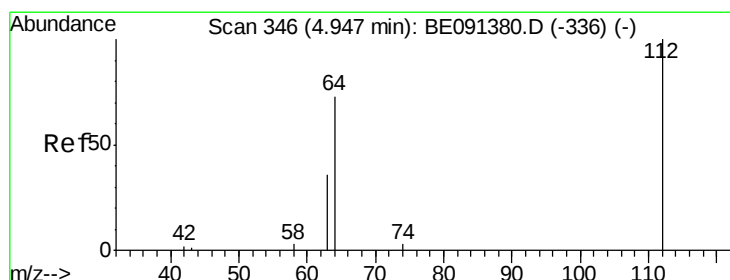
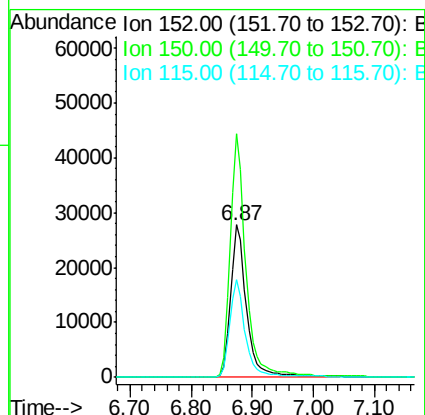
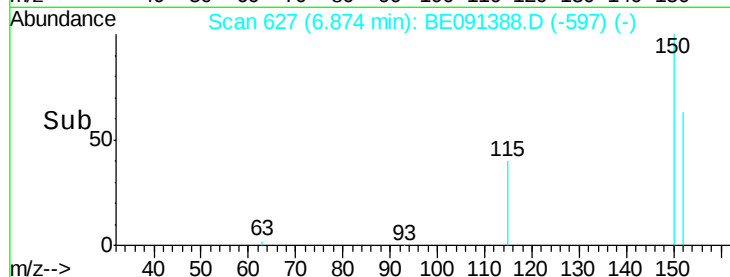
115 63.9 50.9 76.3



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: 6.92 ng

RT: 4.91 min Scan# 340

Delta R.T. -0.04 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

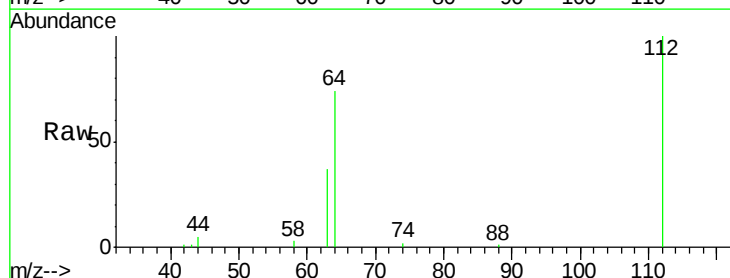
Tgt Ion:112 Resp: 81835

Ion Ratio Lower Upper

112 100

64 71.9 60.5 90.7

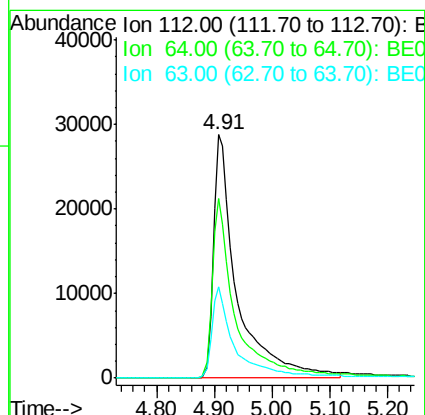
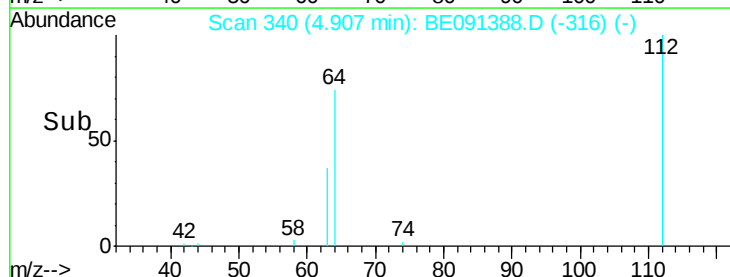
63 36.1 29.8 44.8

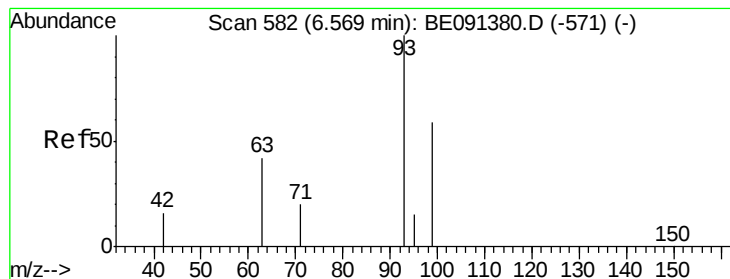


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 6.62 ng

RT: 6.55 min Scan# 579

Delta R.T. -0.02 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

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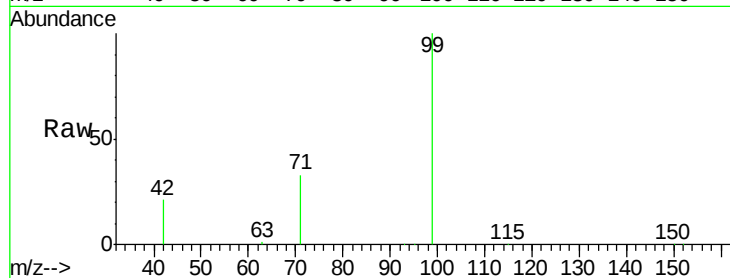
Tgt Ion: 99 Resp: 110852

Ion Ratio Lower Upper

99 100

42 15.3 13.3 19.9

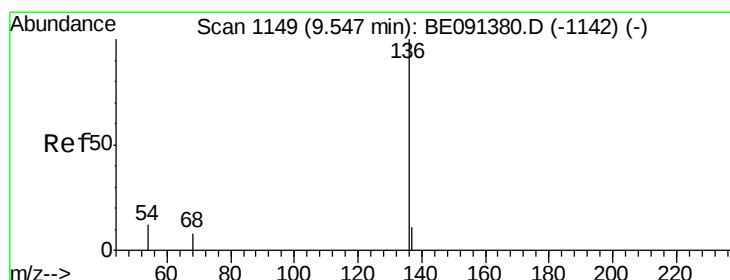
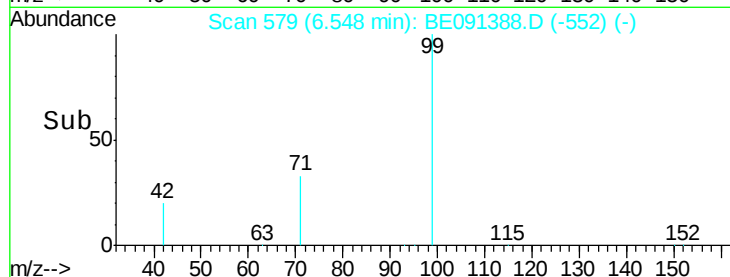
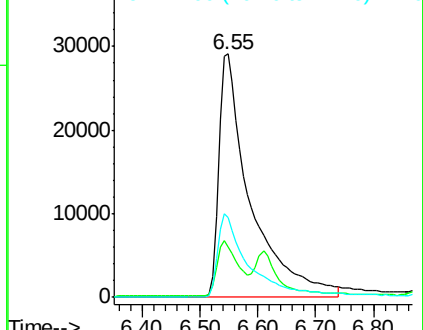
71 33.5 25.6 38.4



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: 9.55 min Scan# 1150

Delta R.T. 0.01 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Tgt Ion: 136 Resp: 232729

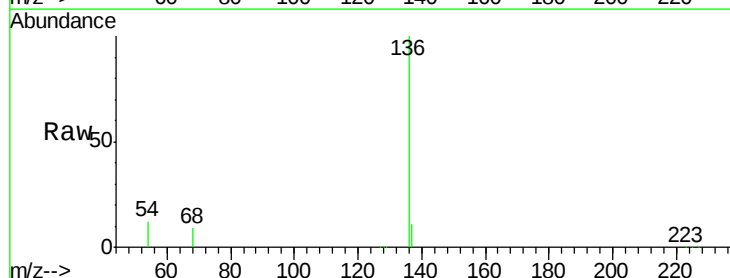
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 12.5 9.3 13.9

68 8.8 6.7 10.1

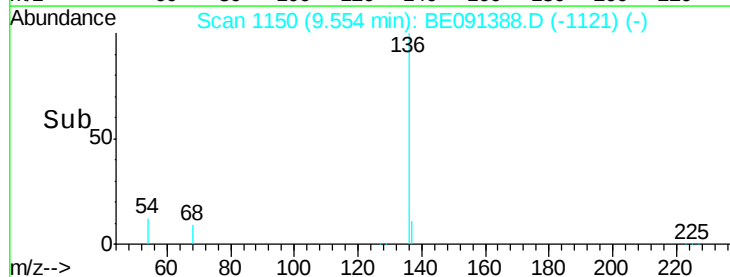
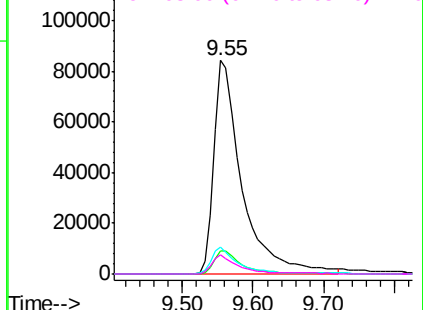


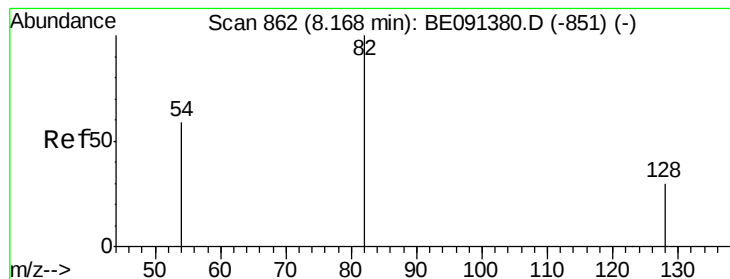
Abundance Ion 136.00 (135.70 to 136.70): E

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: 2.94 ng

RT: 8.18 min Scan# 864

Delta R.T. 0.01 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampleId :

PB87603BL

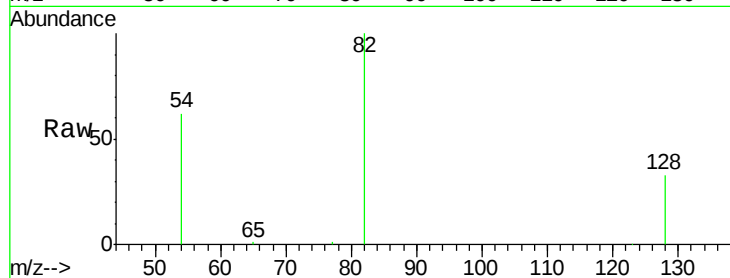
Tgt Ion: 82 Resp: 43409

Ion Ratio Lower Upper

82 100

128 32.7 25.0 37.4

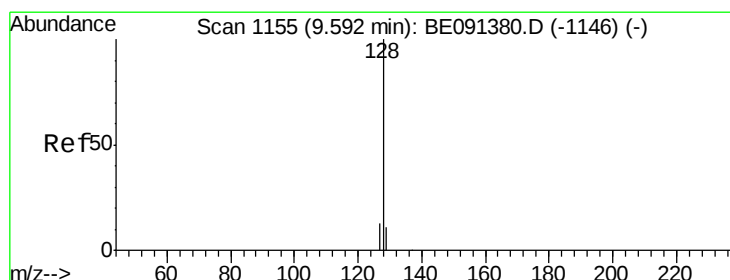
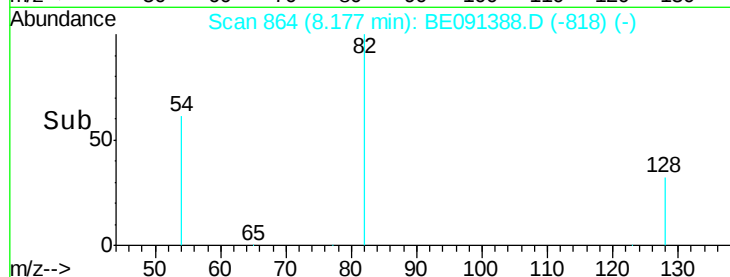
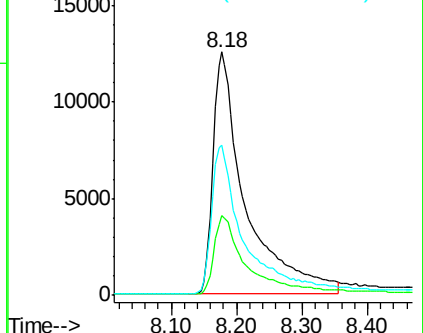
54 61.6 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE091388.D (-818) (-)

Ion 128.00 (127.70 to 128.70): BE091388.D (-818) (-)

Ion 54.00 (53.70 to 54.70): BE091388.D (-818) (-)



#6

Naphthalene

Concen: 0.00 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

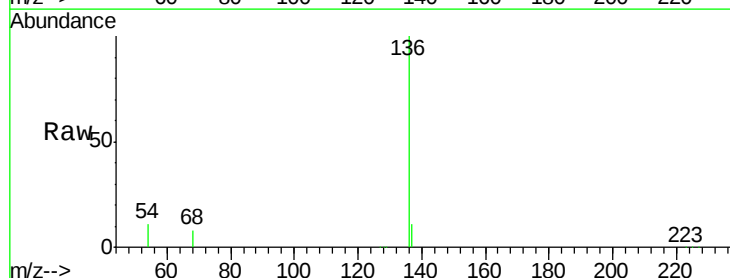
Tgt Ion: 128 Resp: 56

Ion Ratio Lower Upper

128 100

129 82.8 9.1 13.7#

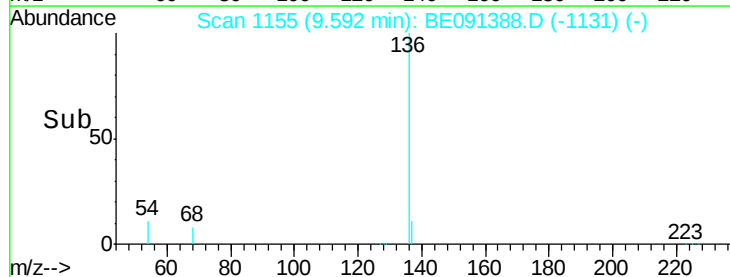
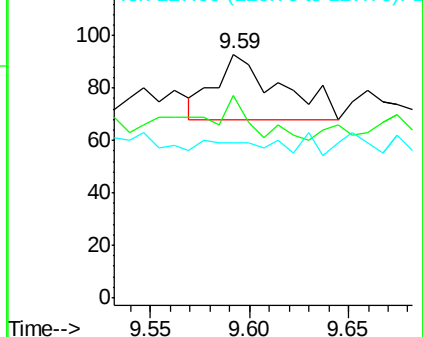
127 63.4 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): BE091388.D (-1131) (-)

Ion 129.00 (128.70 to 129.70): BE091388.D (-1131) (-)

Ion 127.00 (126.70 to 127.70): BE091388.D (-1131) (-)





#7

2-Methylnaphthalene

Concen: 0.13 ng

RT: 11.14 min Scan# 1412

Delta R.T. 0.01 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

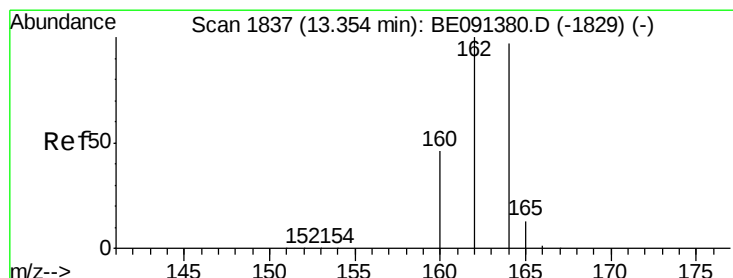
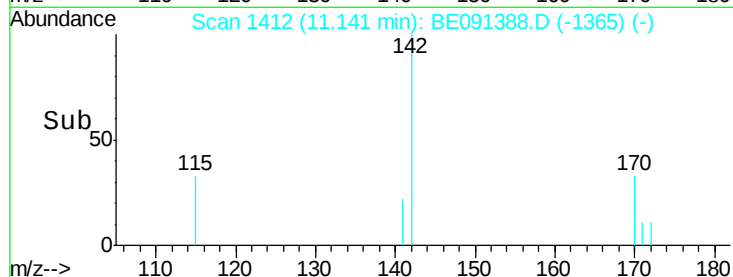
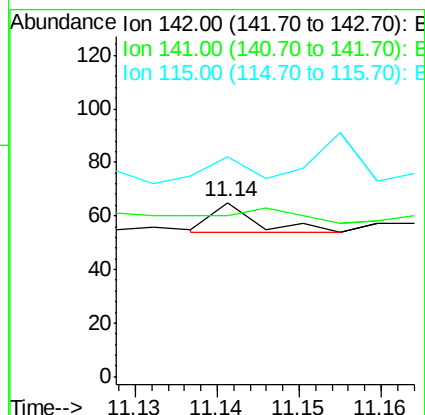
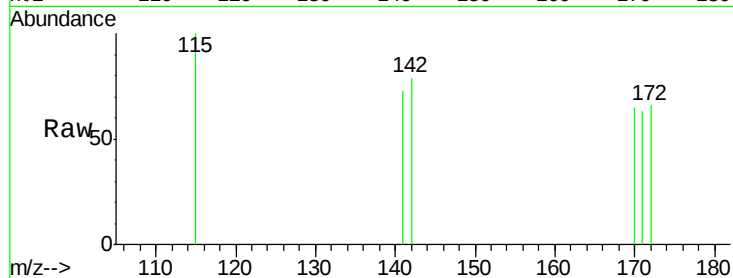
Instrument :

BNA_E

ClientSampleId :

PB87603BL

Tgt Ion:	142	Resp:	4
Ion	Ratio	Lower	Upper
142	100		
141	92.3	72.3	108.5
115	126.2	30.5	45.7#



#8

Acenaphthene-d10

Concen: 5.00 ng

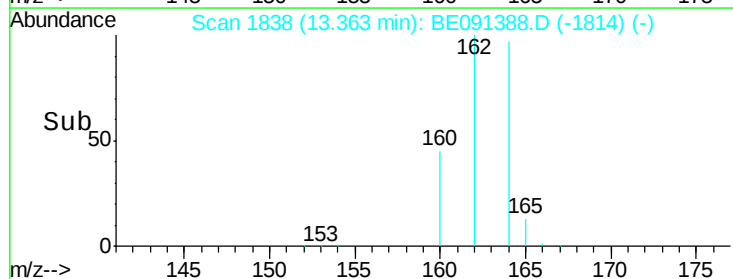
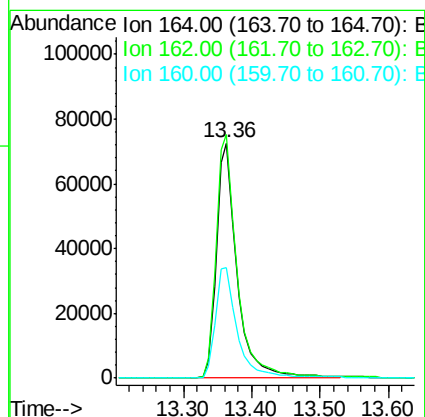
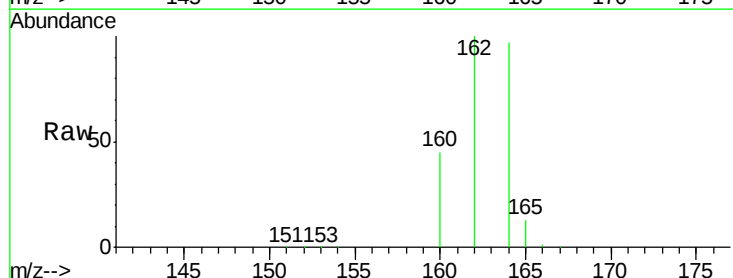
RT: 13.36 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Tgt Ion:	164	Resp:	152184
Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.2	123.2
160	46.8	37.8	56.8





#9

2,4,6-Tribromophenol

Concen: 3.72 ng

RT: 14.90 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampleId :

PB87603BL

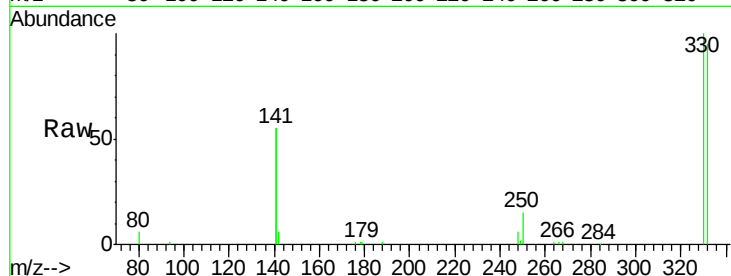
Tgt Ion:330 Resp: 26283

Ion Ratio Lower Upper

330 100

332 96.2 78.8 118.2

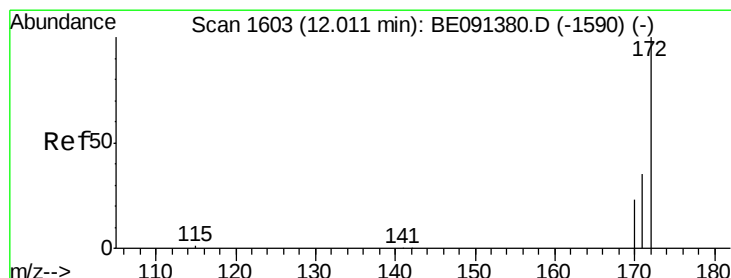
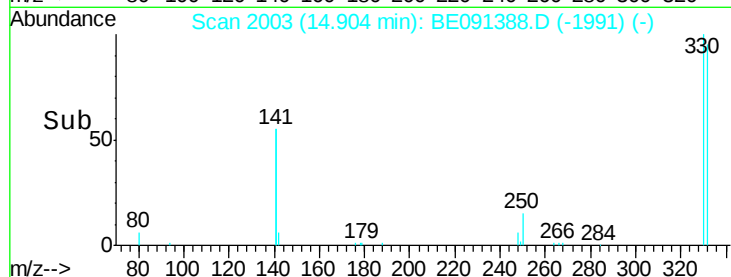
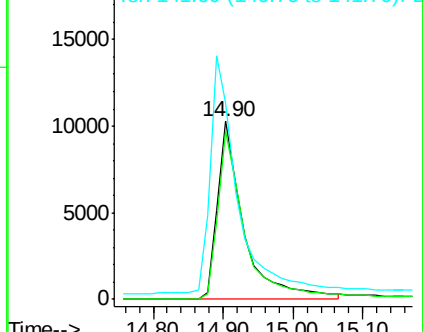
141 141.1 105.1 157.7



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: 3.91 ng

RT: 12.02 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

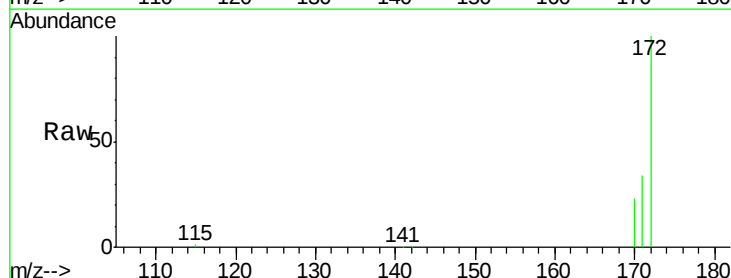
Tgt Ion:172 Resp: 154920

Ion Ratio Lower Upper

172 100

171 34.0 27.8 41.8

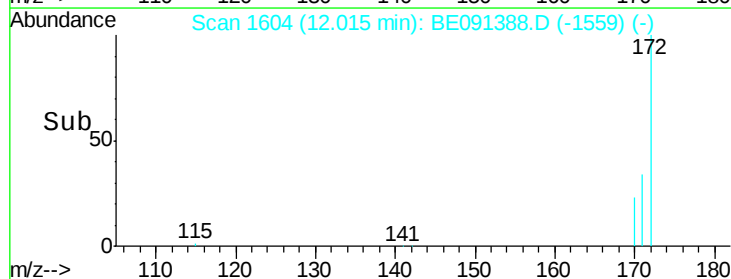
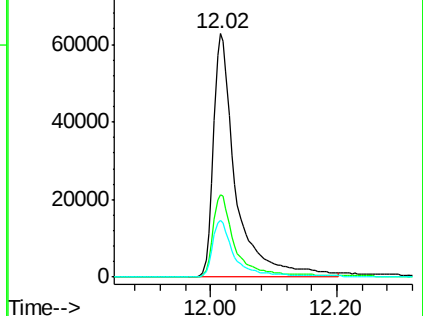
170 23.4 18.6 28.0

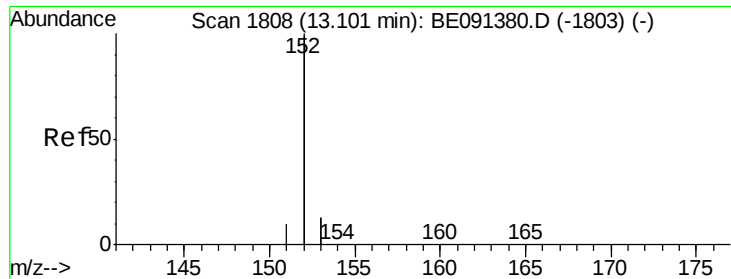


Abundance Ion 172.00 (171.70 to 172.70): E

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: 13.08 min Scan# 1806

Delta R.T. -0.02 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

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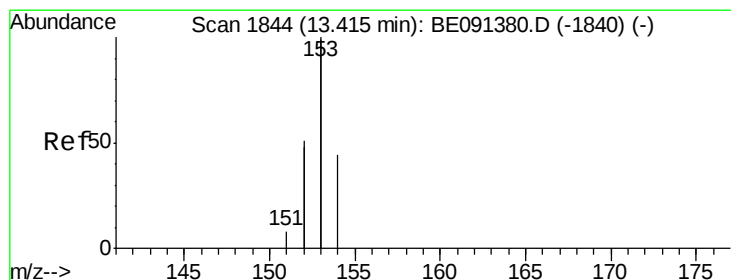
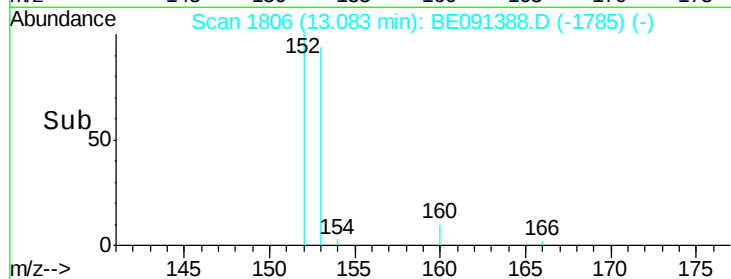
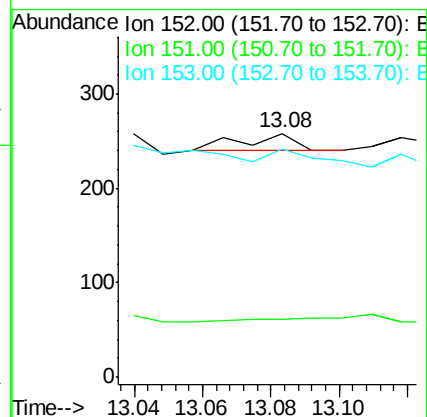
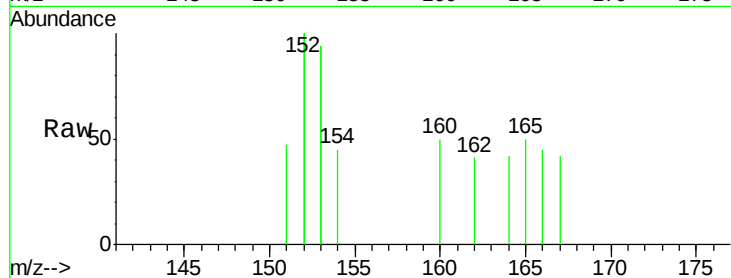
Tgt Ion:152 Resp: 20

Ion Ratio Lower Upper

152 100

151 0.0 3.8 5.8#

153 0.0 10.2 15.4#



#12

Acenaphthene

Concen: 0.02 ng

RT: 13.36 min Scan# 1838

Delta R.T. -0.05 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

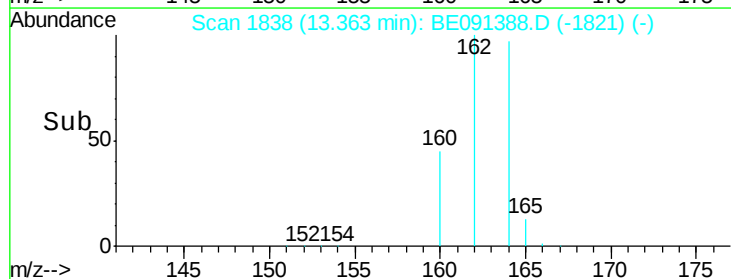
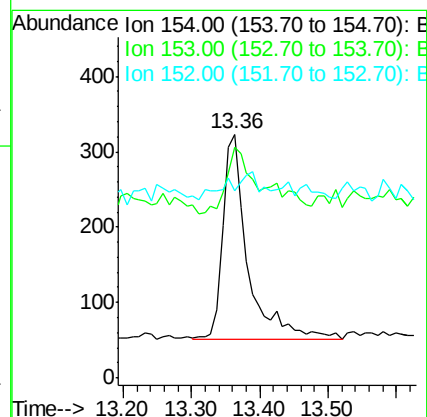
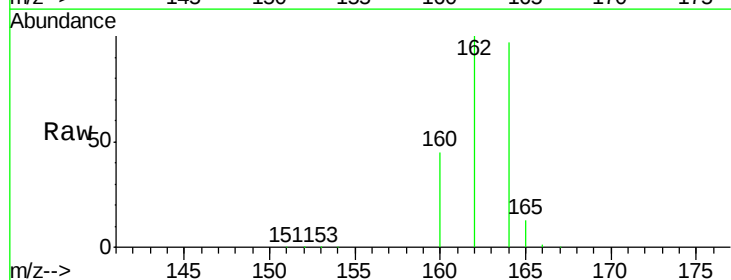
Tgt Ion:154 Resp: 677

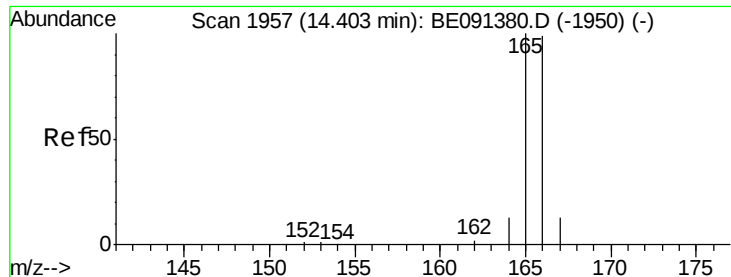
Ion Ratio Lower Upper

154 100

153 33.5 369.8 554.8#

152 7.2 194.4 291.6#

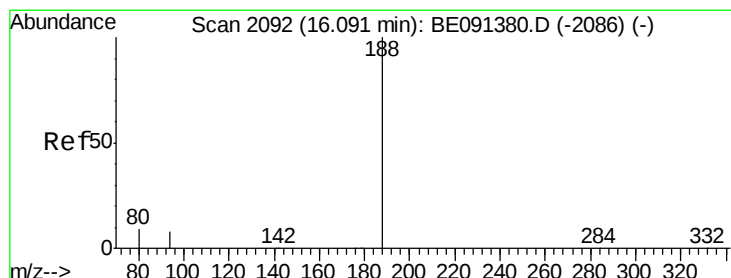
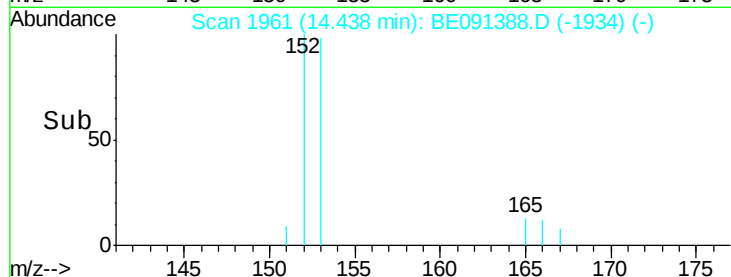
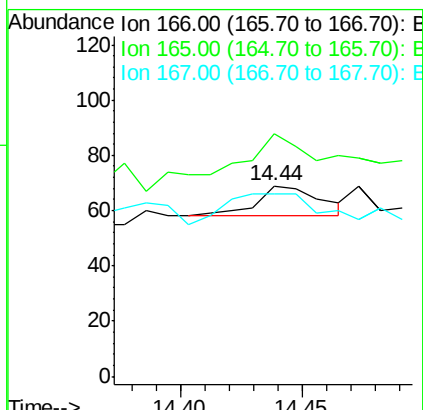
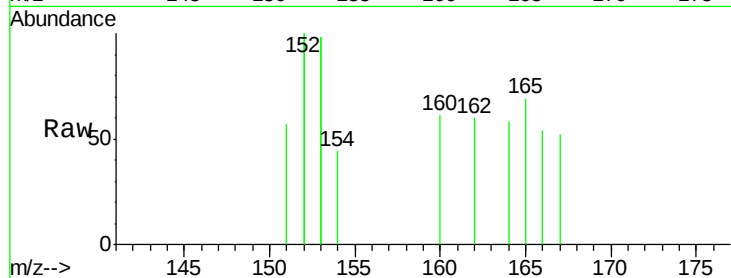




#13
Fluorene
 Concen: 0.00 ng
 RT: 14.44 min Scan# 1961
 Delta R.T. 0.04 min
 Lab File: BE091388.D
 Acq: 4 Feb 2016 10:24

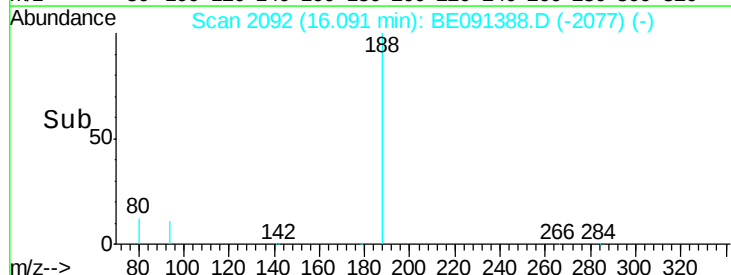
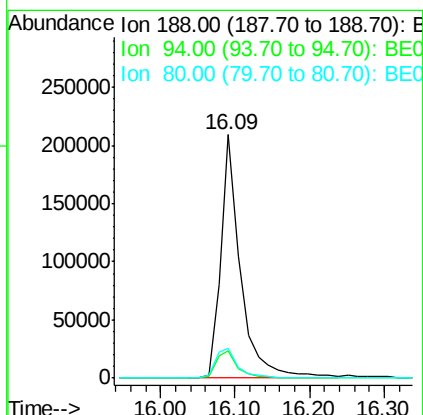
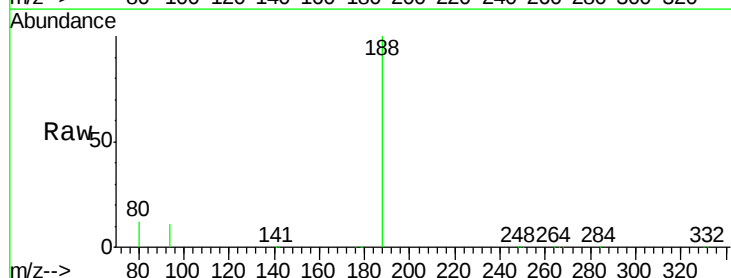
Instrument :
 BNA_E
 ClientSampleId :
 PB87603BL

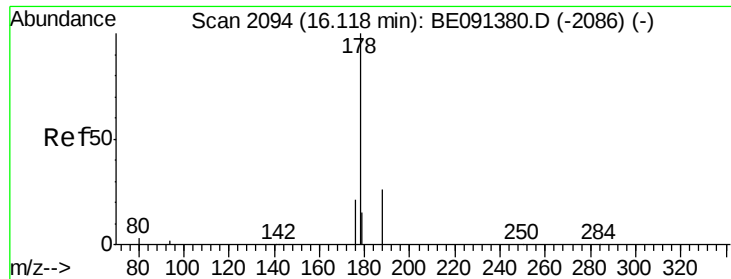
Tgt Ion:166 Resp: 20
 Ion Ratio Lower Upper
 166 100
 165 370.0 79.3 118.9#
 167 145.0 10.6 16.0#



#14
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.09 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: BE091388.D
 Acq: 4 Feb 2016 10:24

Tgt Ion:188 Resp: 390906
 Ion Ratio Lower Upper
 188 100
 94 11.3 6.6 10.0#
 80 12.3 7.0 10.6#





#15

Phenanthrene

Concen: 0.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. -0.03 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampleId :

PB87603BL

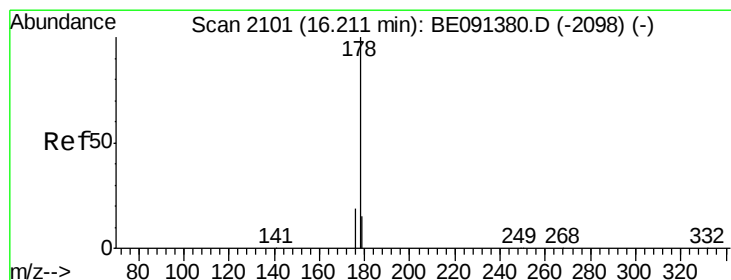
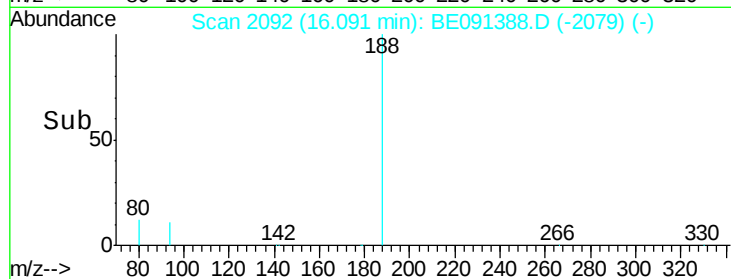
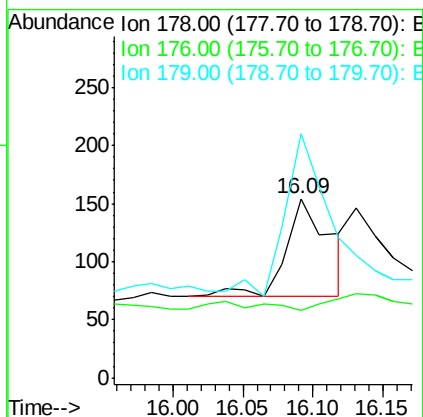
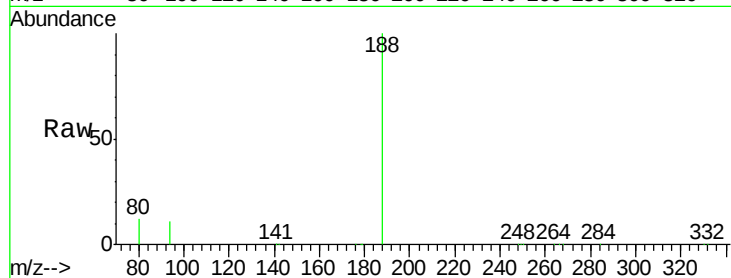
Tgt Ion:178 Resp: 186

Ion Ratio Lower Upper

178 100

176 0.0 15.4 23.2#

179 182.8 12.7 19.1#



#16

Anthracene

Concen: 0.00 ng

RT: 16.21 min Scan# 2101

Delta R.T. -0.00 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

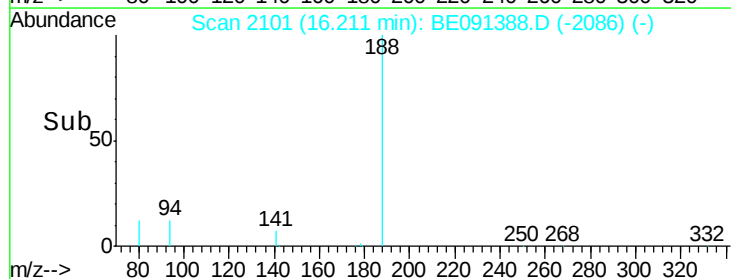
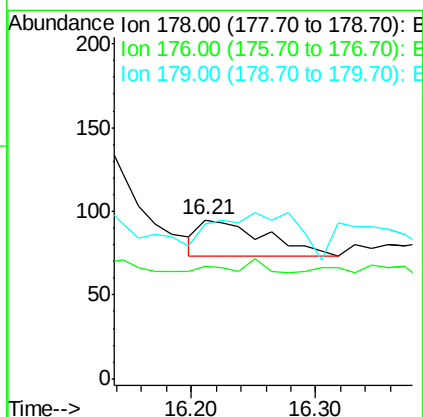
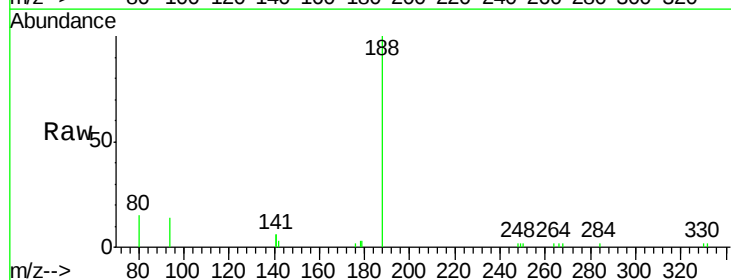
Tgt Ion:178 Resp: 80

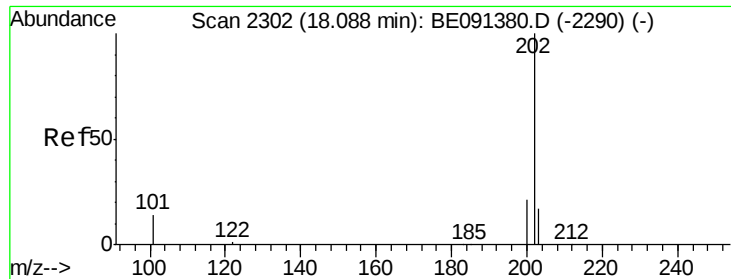
Ion Ratio Lower Upper

178 100

176 0.0 14.8 22.2#

179 0.0 12.1 18.1#

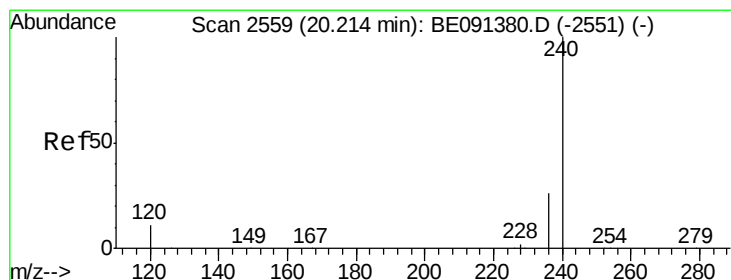
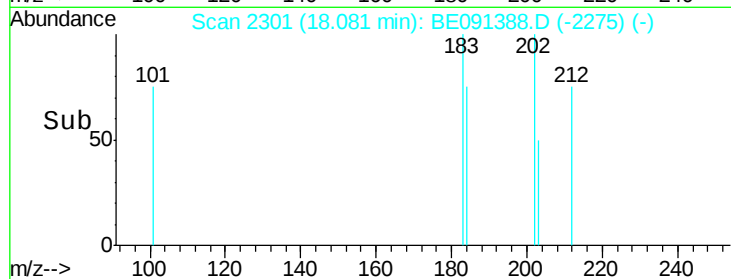
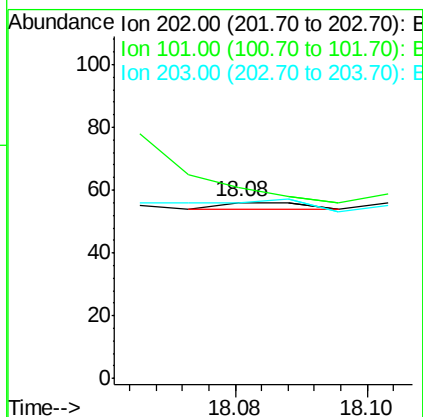
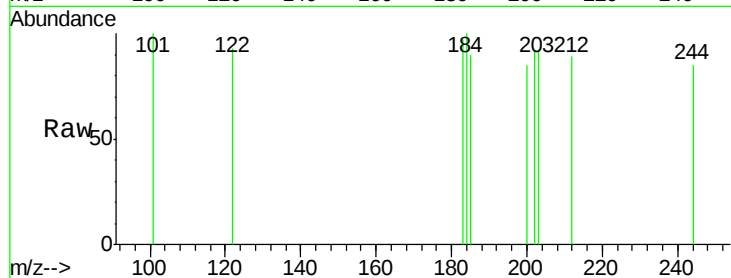




#17
 Fluoranthene
 Concen: 0.12 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.01 min
 Lab File: BE091388.D
 Acq: 4 Feb 2016 10:24

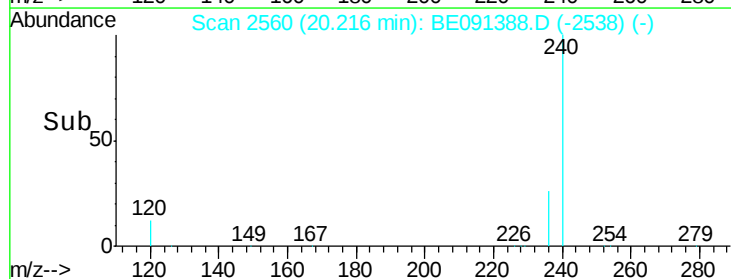
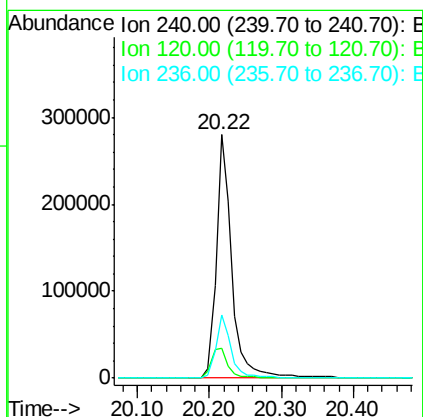
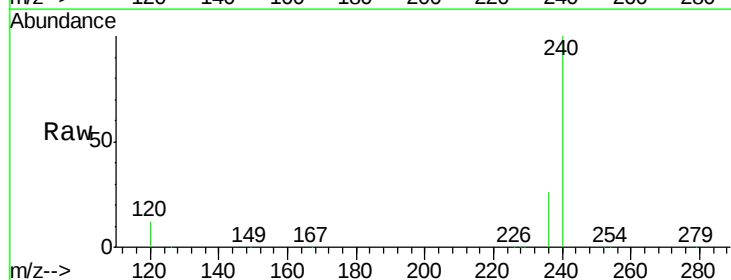
Instrument :
 BNA_E
 ClientSampled :
 PB87603BL

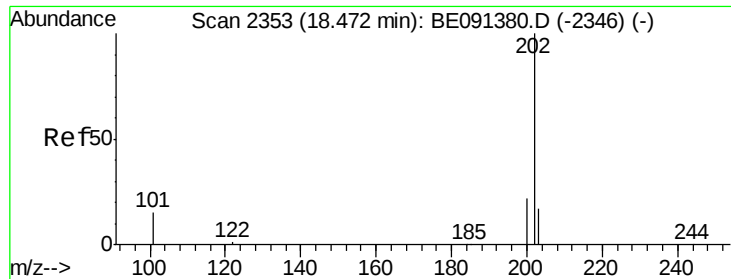
Tgt Ion: 202 Resp: 2
 Ion Ratio Lower Upper
 202 100
 101 0.0 10.5 15.7#
 203 0.0 13.9 20.9#



#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091388.D
 Acq: 4 Feb 2016 10:24

Tgt Ion: 240 Resp: 416946
 Ion Ratio Lower Upper
 240 100
 120 12.4 8.9 13.3
 236 25.9 21.0 31.4





#19

Pyrene

Concen: 0.00 ng

RT: 18.52 min Scan# 2359

Delta R.T. 0.04 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampled :

PB87603BL

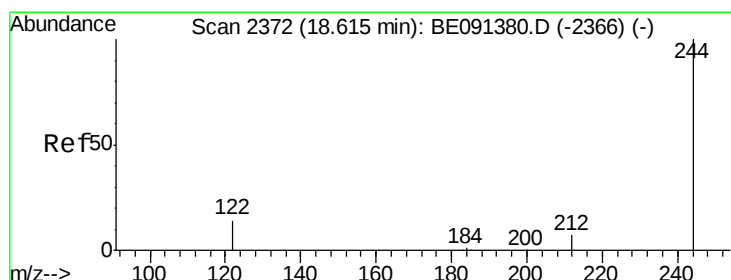
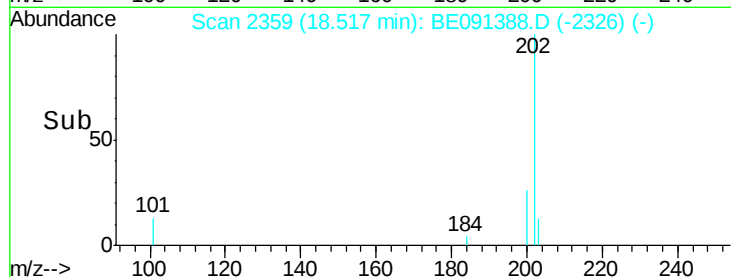
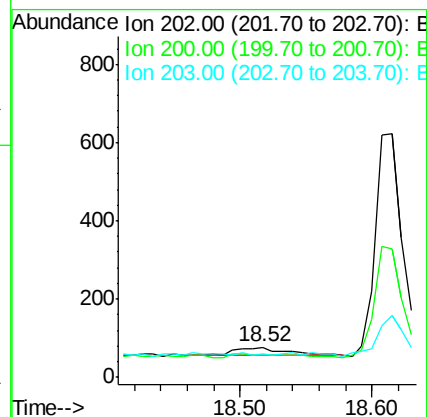
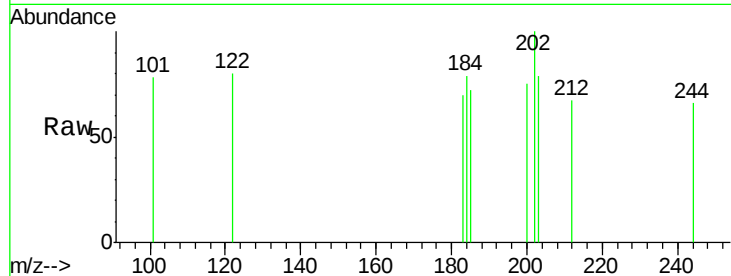
Tgt Ion:202 Resp: 61

Ion Ratio Lower Upper

202 100

200 44.3 16.8 25.2#

203 11.5 14.0 21.0#



#20

Terphenyl-d14

Concen: 4.27 ng

RT: 18.61 min Scan# 2372

Delta R.T. -0.00 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

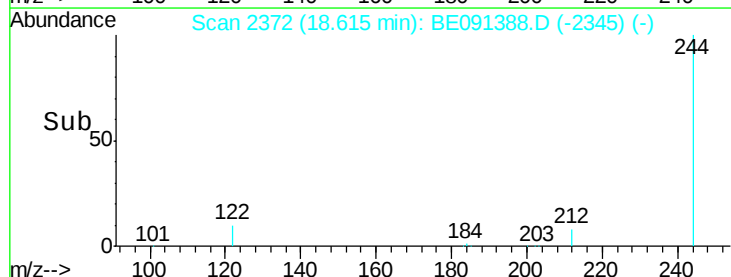
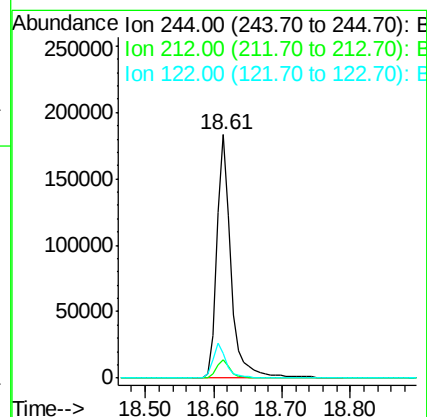
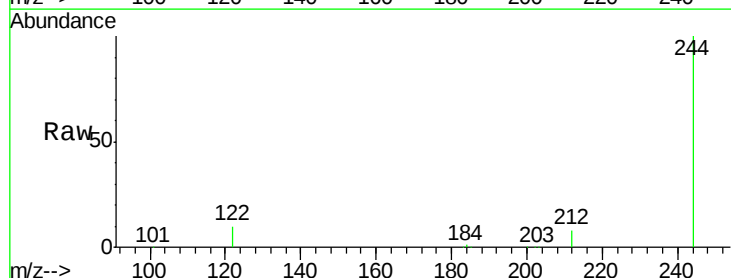
Tgt Ion:244 Resp: 263577

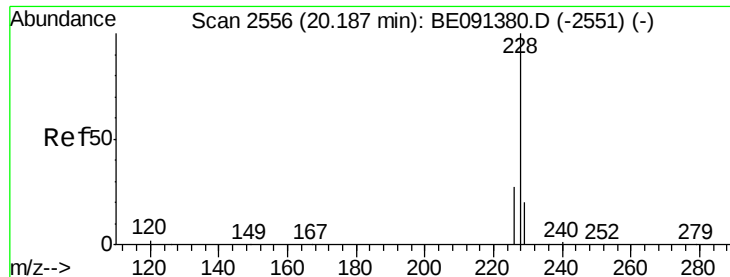
Ion Ratio Lower Upper

244 100

212 7.6 6.1 9.1

122 10.2 11.0 16.6#





#21

Benzo(a)anthracene

Concen: 0.18 ng

RT: 20.22 min Scan# 2560

Delta R.T. 0.03 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampleId :

PB87603BL

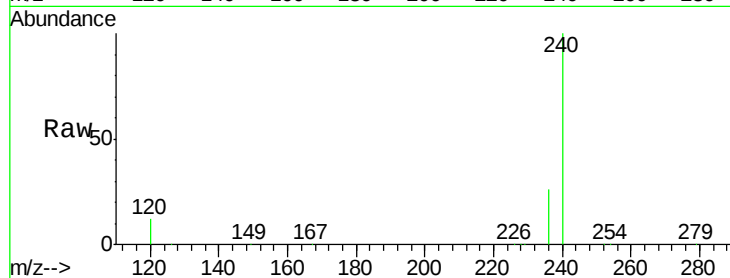
Tgt Ion:228 Resp: 1253

Ion Ratio Lower Upper

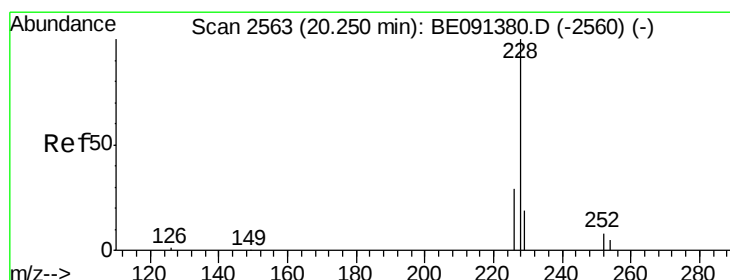
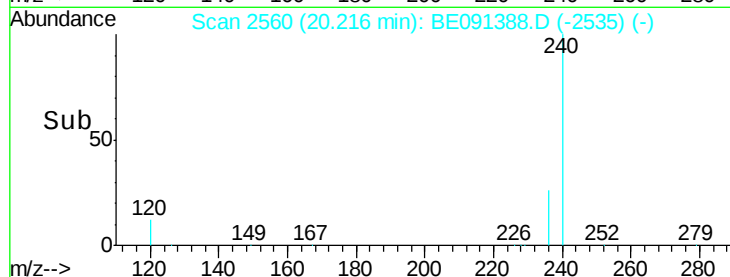
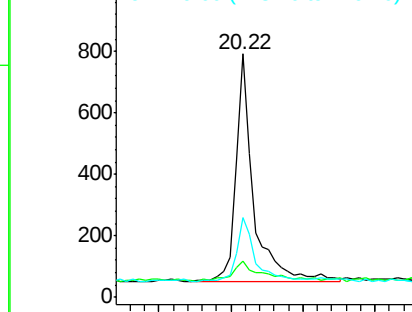
228 100

226 14.9 21.7 32.5#

229 32.8 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: 20.22 min Scan# 2560

Delta R.T. -0.03 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

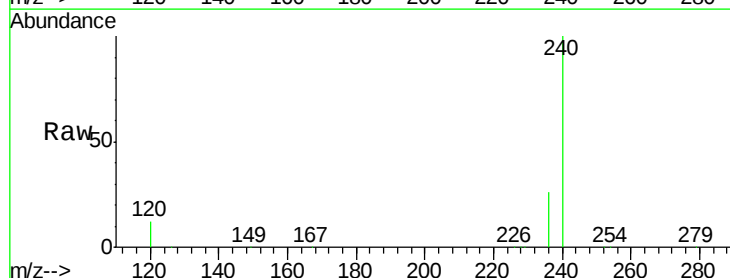
Tgt Ion:228 Resp: 1253

Ion Ratio Lower Upper

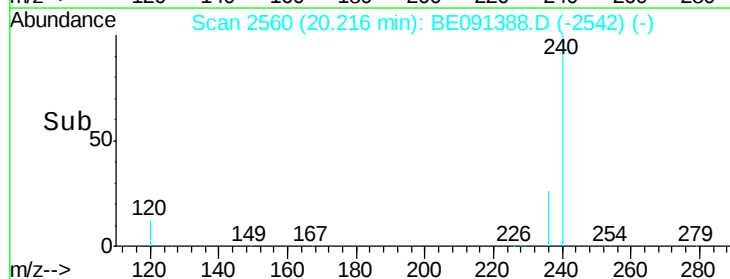
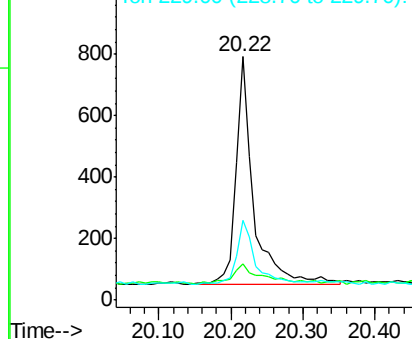
228 100

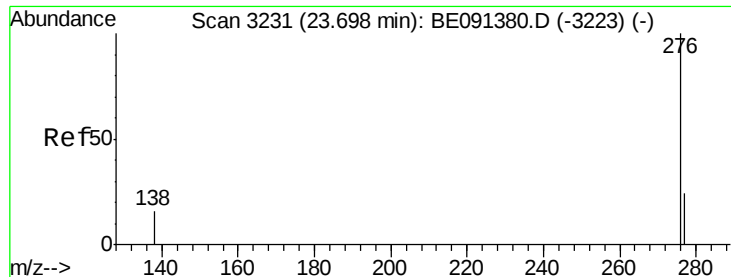
226 14.9 23.4 35.0#

229 32.8 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: 0.16 ng

RT: 23.68 min Scan# 3227

Delta R.T. -0.02 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

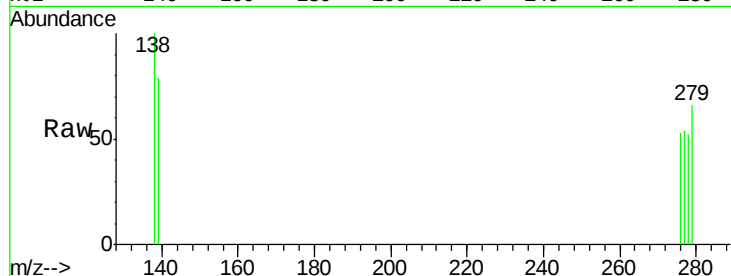
Instrument :

BNA_E

ClientSampleId :

PB87603BL

Tgt Ion:	276	Resp:	3
Ion	Ratio	Lower	Upper
276	100		
138	266.7	16.6	25.0#
277	200.0	19.0	28.6#

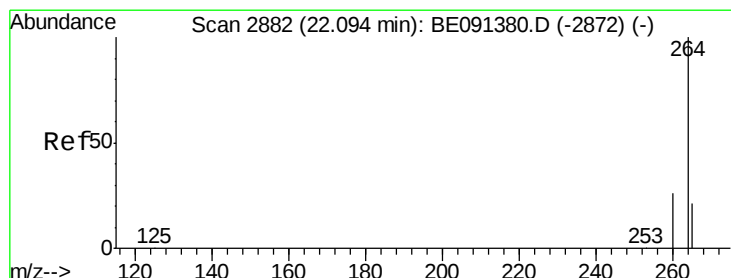
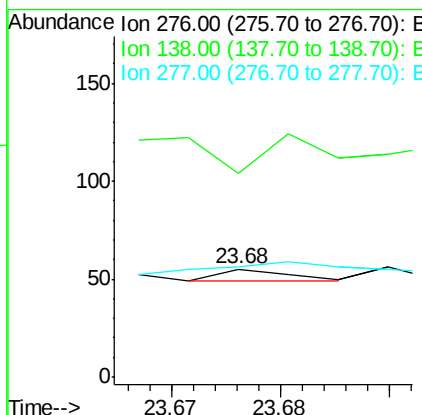
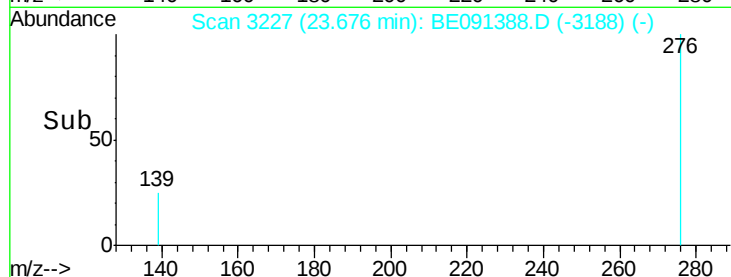


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

Time-->



#24

Perylene-d12

Concen: 5.00 ng

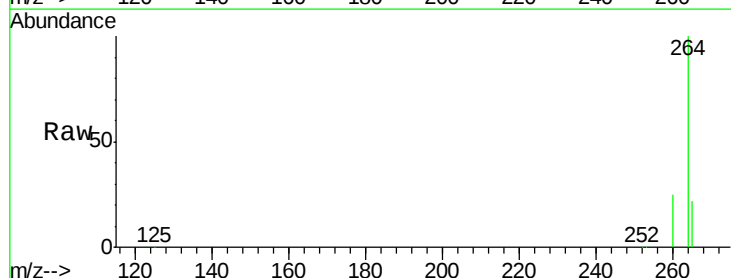
RT: 22.10 min Scan# 2884

Delta R.T. 0.00 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Tgt Ion:	264	Resp:	375840
Ion	Ratio	Lower	Upper
264	100		
260	25.4	20.7	31.1
265	21.6	17.2	25.8

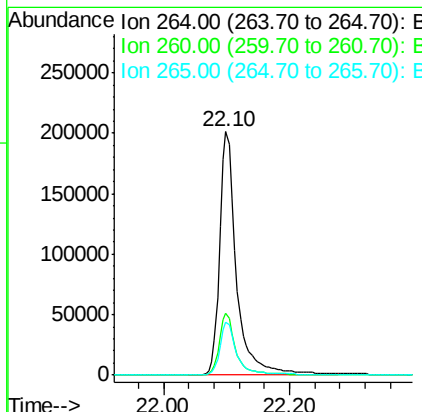
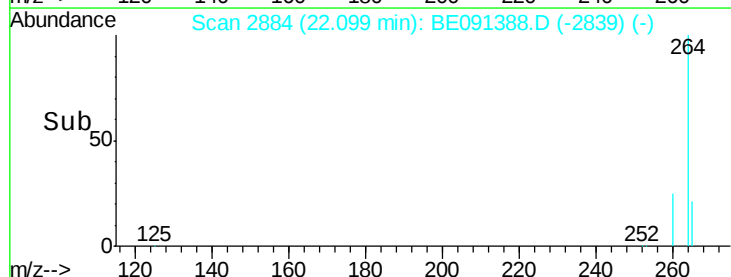


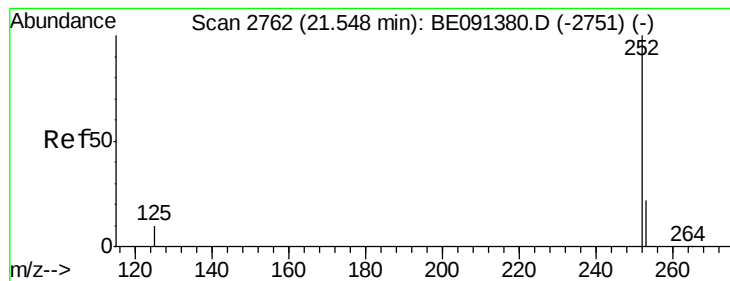
Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

Time-->





#25

Benzo(b)fluoranthene

Concen: 0.15 ng

RT: 21.57 min Scan# 2768

Delta R.T. 0.02 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampleId :

PB87603BL

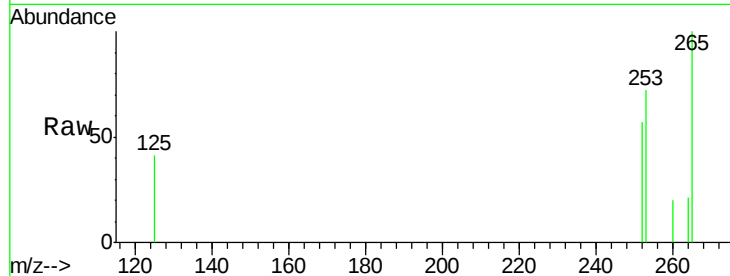
Tgt Ion:252 Resp: 78

Ion Ratio Lower Upper

252 100

253 127.0 18.2 27.2#

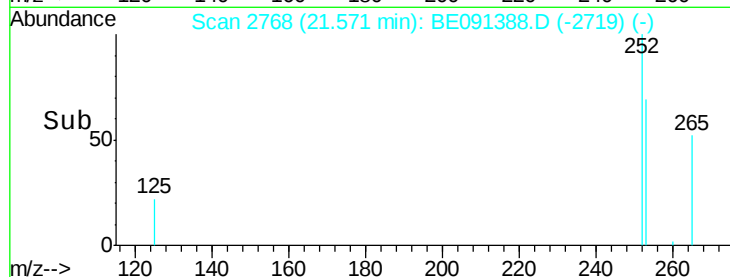
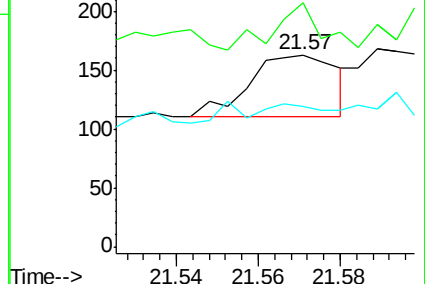
125 73.0 8.3 12.5#



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# 2768

Delta R.T. -0.00 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

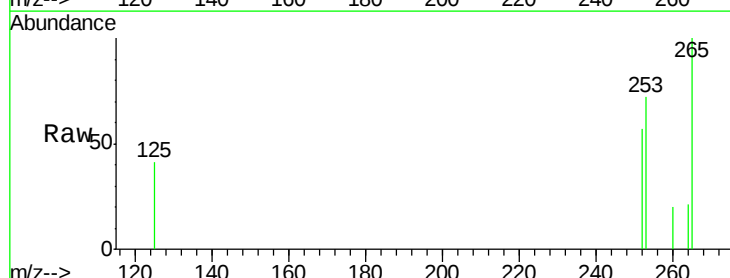
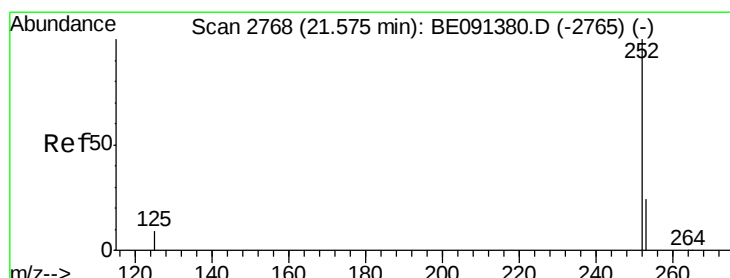
Tgt Ion:252 Resp: 78

Ion Ratio Lower Upper

252 100

253 127.0 18.1 27.1#

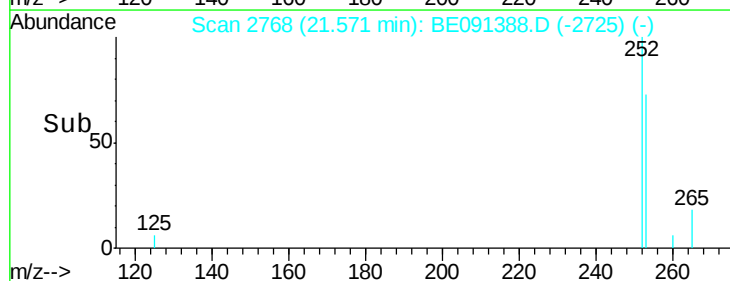
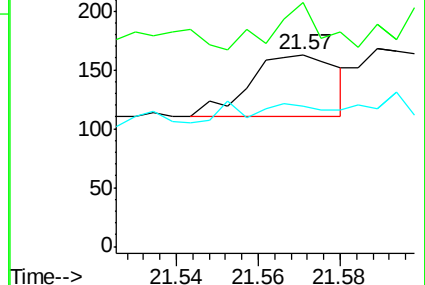
125 73.0 8.2 12.4#

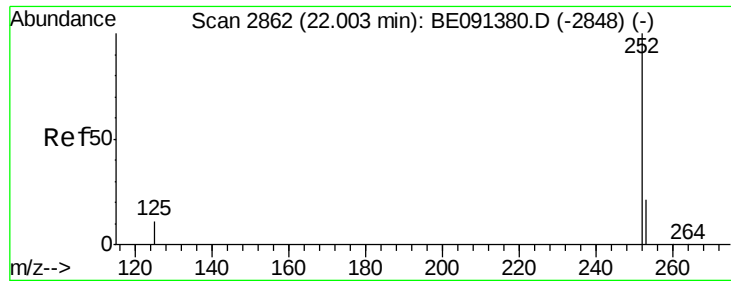


Abundance Ion 252.00 (251.70 to 252.70): E

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: 22.02 min Scan# 2866

Delta R.T. 0.01 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampleId :

PB87603BL

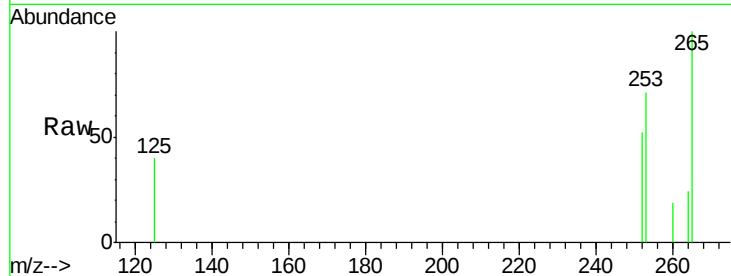
Tgt Ion: 252 Resp: 48

Ion Ratio Lower Upper

252 100

253 138.3 17.5 26.3#

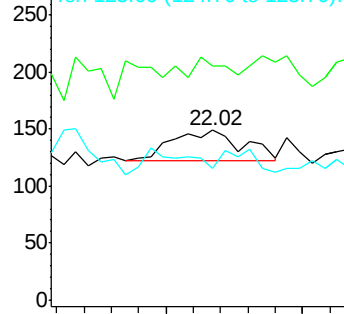
125 77.2 9.4 14.0#



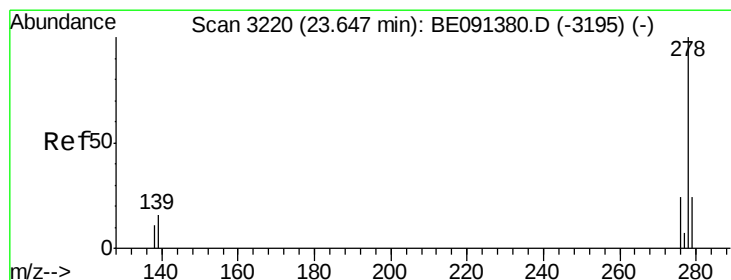
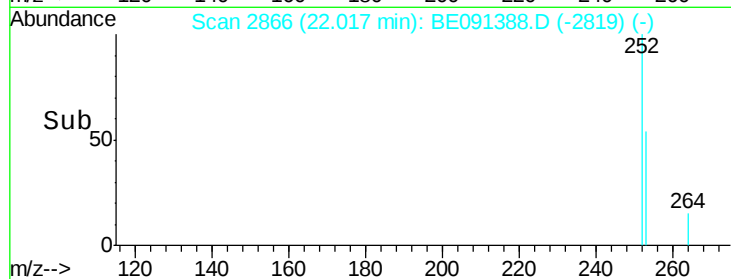
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#28

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 23.57 min Scan# 3204

Delta R.T. -0.08 min

Lab File: BE091388.D

Acq: 4 Feb 2016 10:24

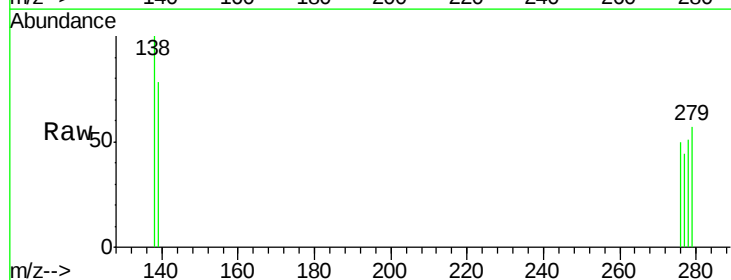
Tgt Ion: 278 Resp: 5

Ion Ratio Lower Upper

278 100

139 153.3 13.0 19.4#

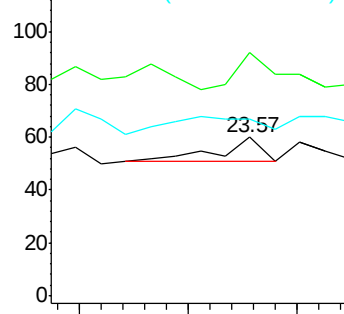
279 111.7 19.2 28.8#



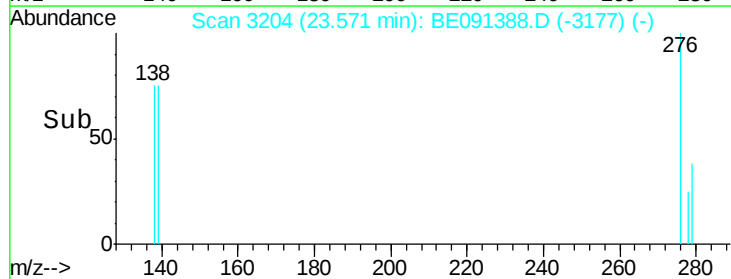
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#29

Benzo(g,h,i)perylene

Concen: 0.14 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.01 min

Lab File: BE091388.D

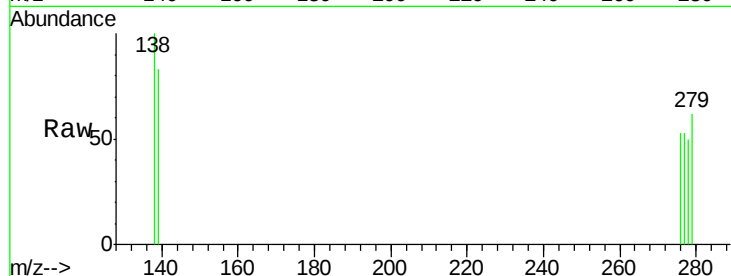
Acq: 4 Feb 2016 10:24

Instrument :

BNA_E

ClientSampleId :

PB87603BL



Tgt Ion:	276	Resp:	5
Ion	Ratio	Lower	Upper
276	100		
277	100.0	18.9	28.3#
138	187.7	17.0	25.6#

