

Data Path : Z:\HPCHEM1\BNA_E\Data\BE013015\
 Data File : BE089449.D
 Acq On : 30 Jan 2015 21:57
 Operator : TP/IZ
 Sample : G1121-13
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RBOE-TW1

Quant Time: Feb 02 00:20:28 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	76537	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	314250	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	155782	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	259614	5.00	ng	0.00
16) Chrysene-d12	23.84	240	227028	5.00	ng	0.00
22) Perylene-d12	25.55	264	209661	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	135225	6.50	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	231487	5.64	ng	0.00
18) Terphenyl-d14	22.48	244	244113	7.18	ng	0.00

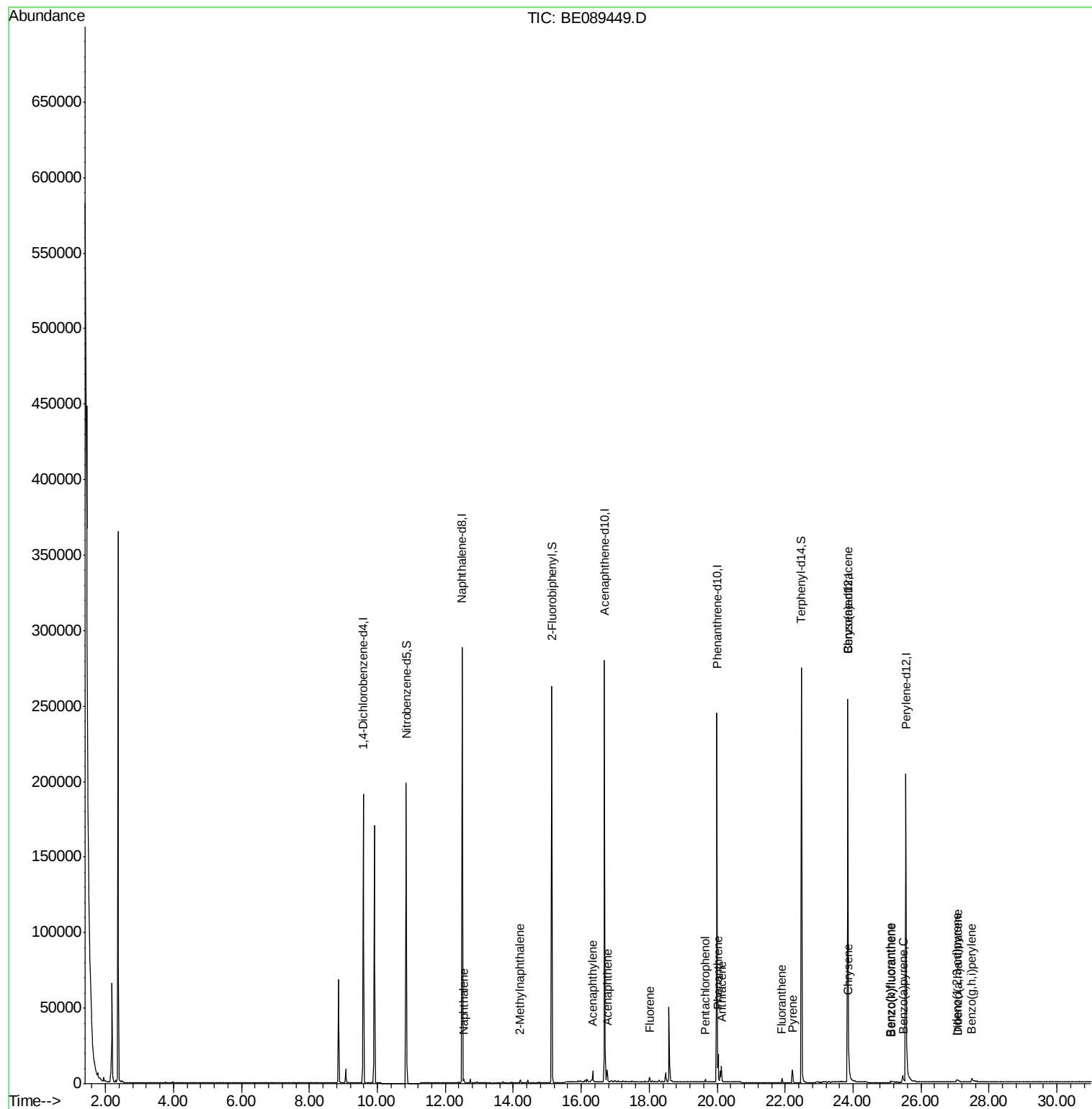
Target Compounds						Qvalue
4) Naphthalene	12.54	128	2571	0.03	ng	# 87
5) 2-Methylnaphthalene	14.20	142	1484	0.03	ng	# 94
8) Acenaphthylene	16.34	152	8721	0.03	ng	97
9) Acenaphthene	16.76	154	1714	0.04	ng	# 89
10) Fluorene	18.02	166	1845	0.04	ng	# 93
12) Pentachlorophenol	19.66	266	1057	0.69	ng	93
13) Phenanthrene	20.03	178	15264	0.06	ng	99
14) Anthracene	20.12	178	9835	0.04	ng	97
15) Fluoranthene	21.91	202	2523	0.05	ng	99
17) Pyrene	22.23	202	2724	0.05	ng	98
19) Benzo(a)anthracene	23.83	228	9585	0.05	ng	95
20) Chrysene	23.87	228	10330	0.05	ng	# 94
21) Indeno(1,2,3-cd)pyrene	27.05	276	3245	0.02	ng	# 82
23) Benzo(b)fluoranthene	25.10	252	864	0.21	ng	# 63
24) Benzo(k)fluoranthene	25.13	252	936	0.02	ng	# 68
25) Benzo(a)pyrene	25.48	252	1242	0.15	ng	# 63
26) Dibenzo(a,h)anthracene	27.08	278	531	0.14	ng	# 40
27) Benzo(g,h,i)perylene	27.50	276	4220	0.03	ng	# 74

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

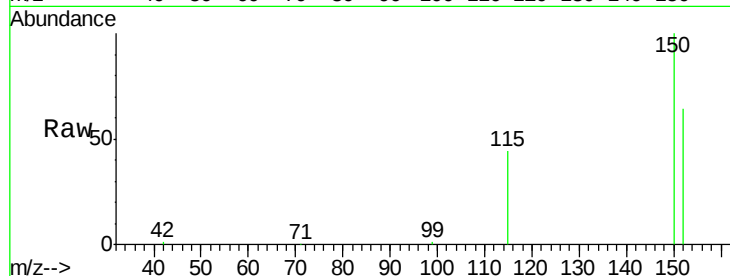
Tgt Ion:152 Resp: 76537

Ion Ratio Lower Upper

152 100

150 157.0 127.2 190.8

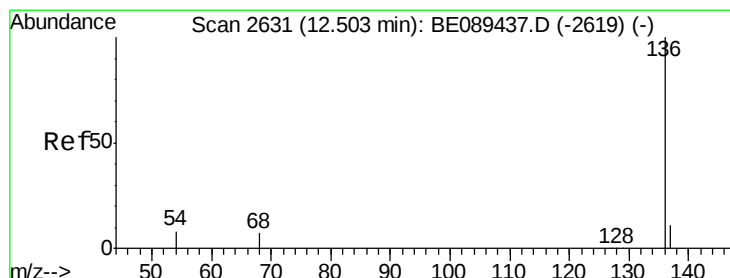
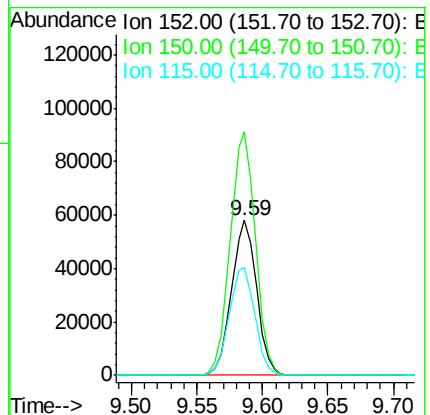
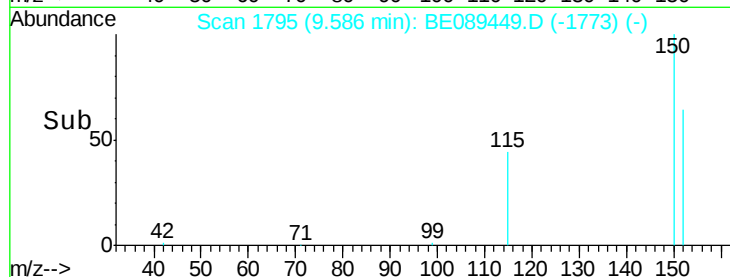
115 69.9 57.5 86.3



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

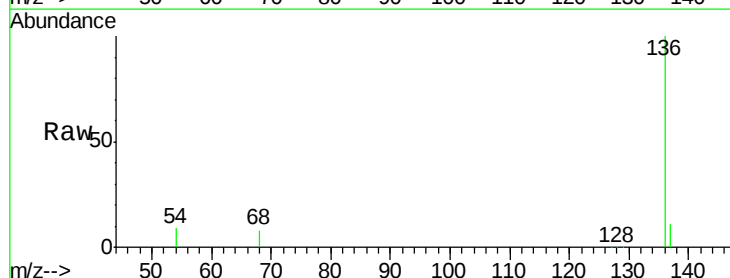
Tgt Ion:136 Resp: 314250

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

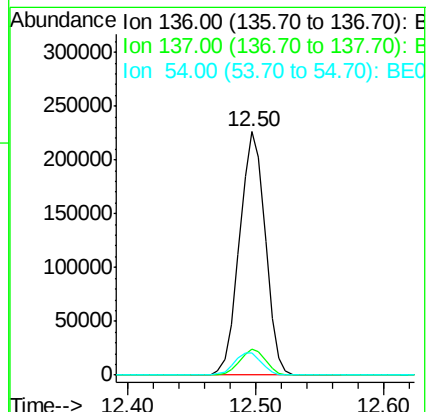
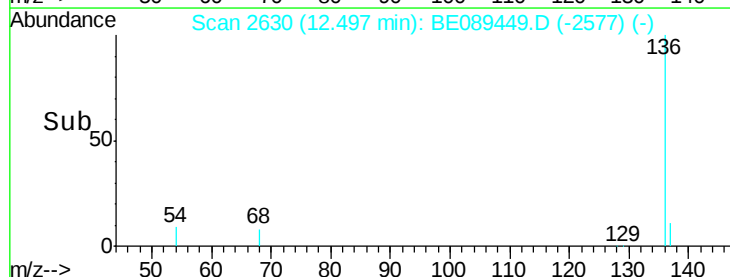
54 9.3 6.6 10.0

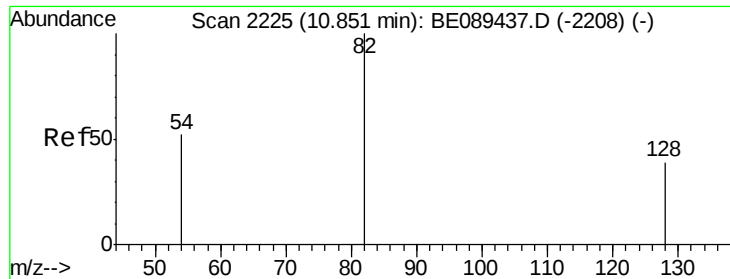


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 6.50 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

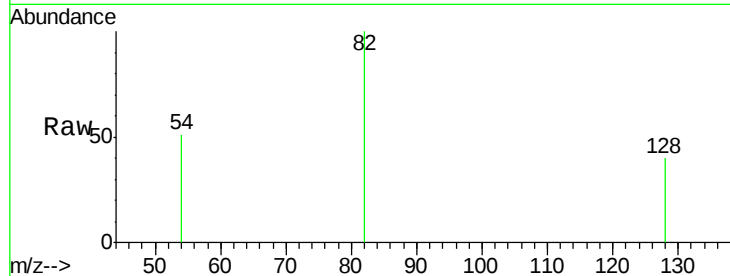
Tgt Ion: 82 Resp: 135225

Ion Ratio Lower Upper

82 100

128 39.9 31.2 46.8

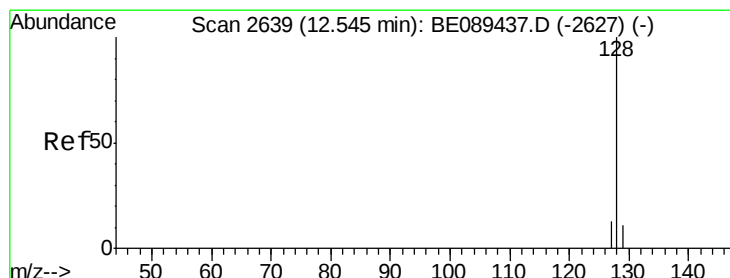
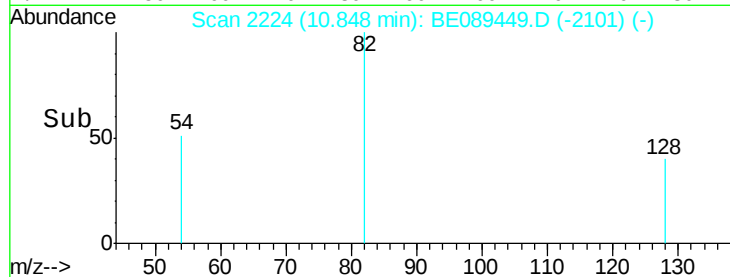
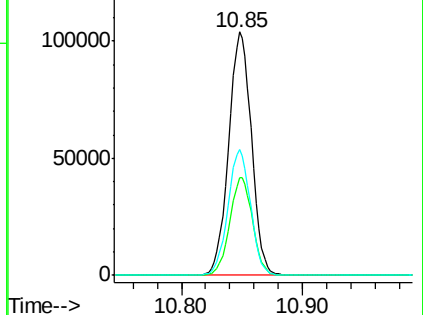
54 51.5 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.03 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

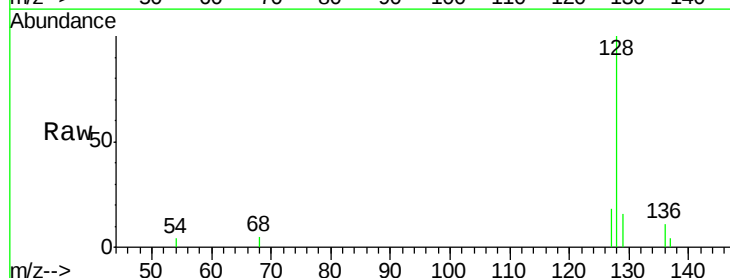
Tgt Ion: 128 Resp: 2571

Ion Ratio Lower Upper

128 100

129 16.5 8.8 13.2#

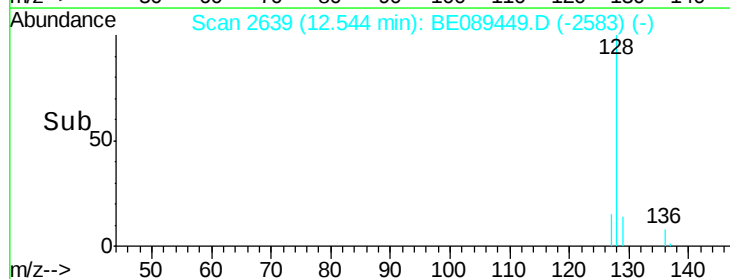
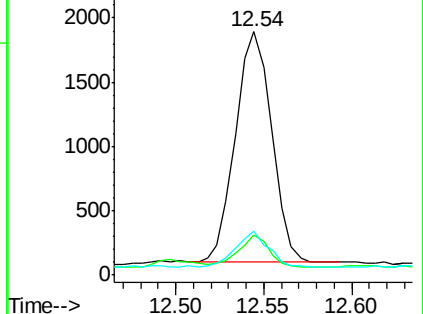
127 18.2 10.6 16.0#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.03 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

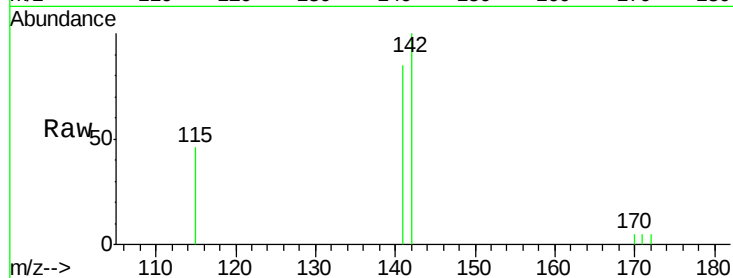
Tgt Ion:142 Resp: 1484

Ion Ratio Lower Upper

142 100

141 84.9 66.1 99.1

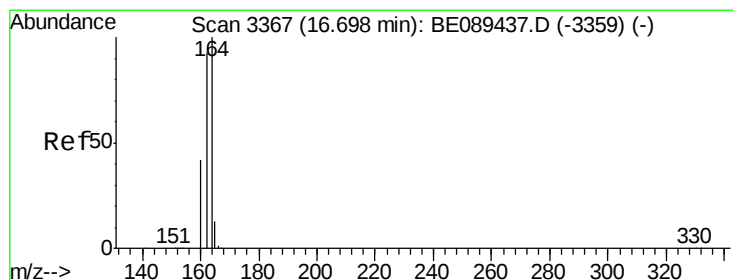
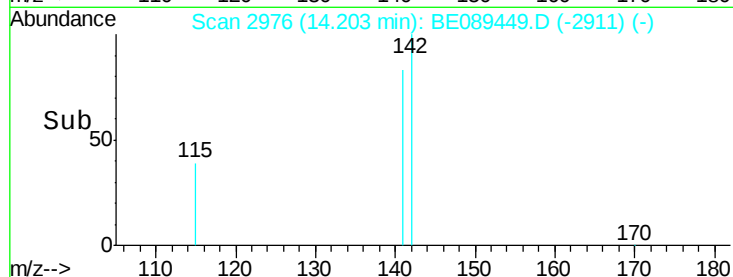
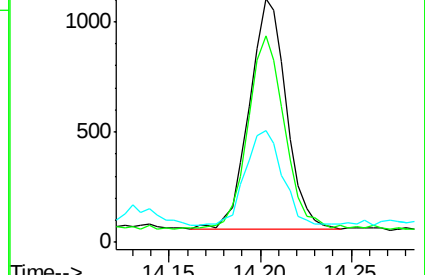
115 46.1 29.9 44.9#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

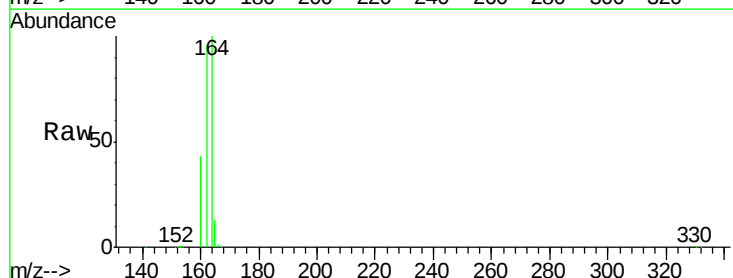
Tgt Ion:164 Resp: 155782

Ion Ratio Lower Upper

164 100

162 96.4 74.7 112.1

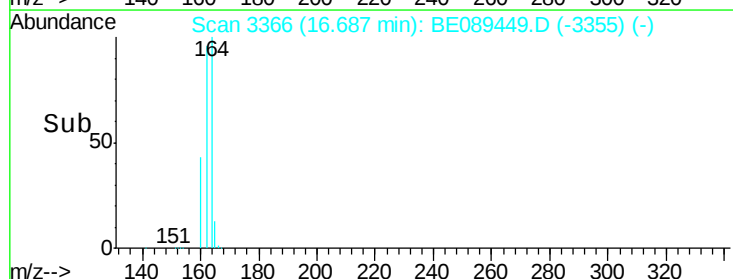
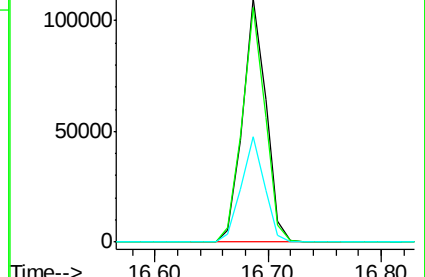
160 43.5 33.4 50.0



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





#7

2-Fluorobiphenyl

Concen: 5.64 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

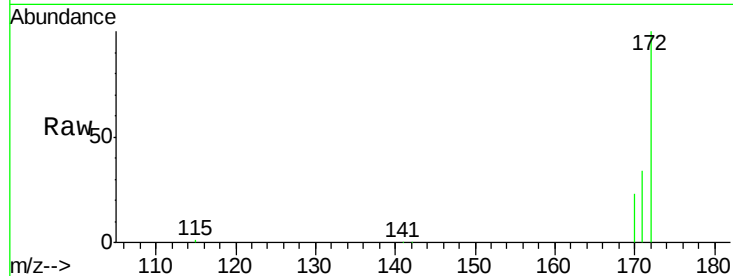
Tgt Ion:172 Resp: 231487

Ion Ratio Lower Upper

172 100

171 34.4 26.2 39.4

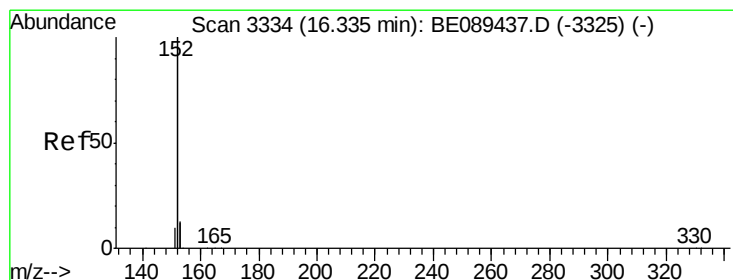
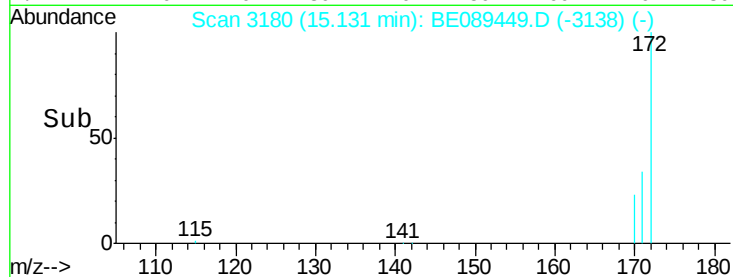
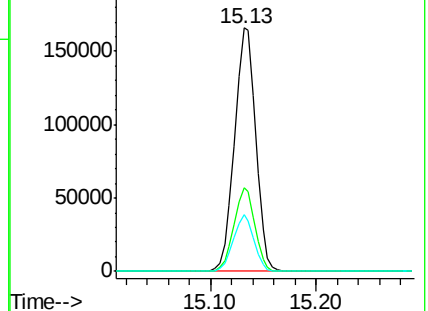
170 23.3 16.5 24.7



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



#8

Acenaphthylene

Concen: 0.03 ng

RT: 16.34 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

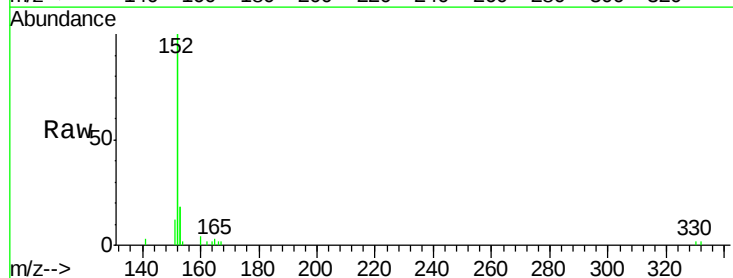
Tgt Ion:152 Resp: 8721

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

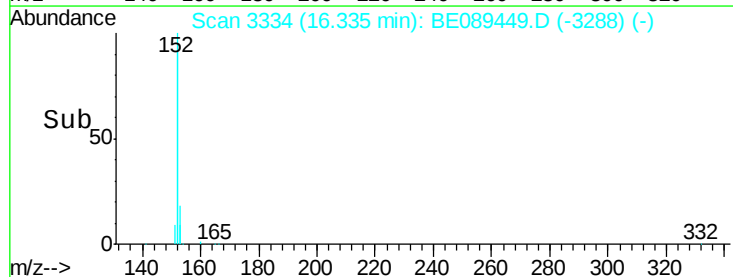
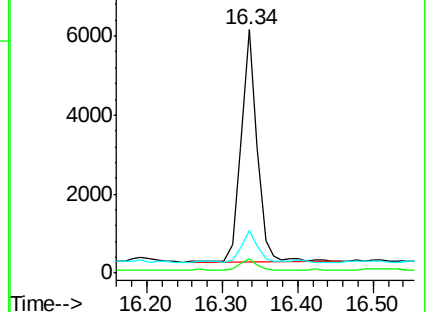
153 14.2 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.04 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

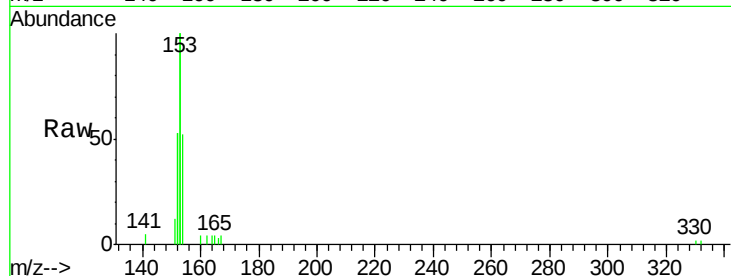
Tgt Ion:154 Resp: 1714

Ion Ratio Lower Upper

154 100

153 428.6 342.3 513.5

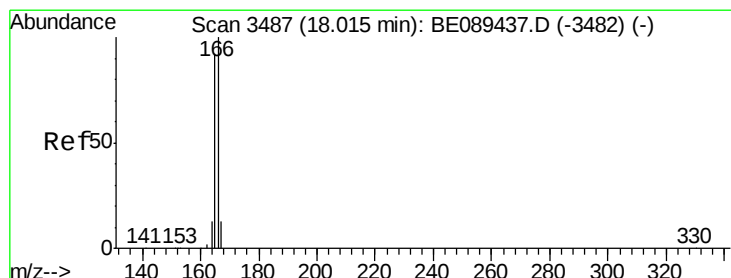
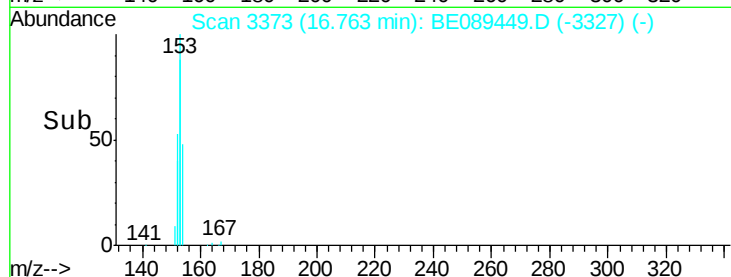
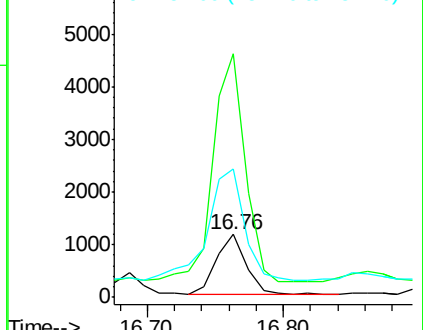
152 260.4 165.5 248.3#



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



#10

Fluorene

Concen: 0.04 ng

RT: 18.02 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

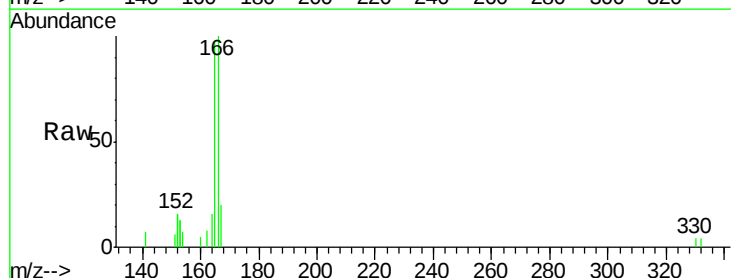
Tgt Ion:166 Resp: 1845

Ion Ratio Lower Upper

166 100

165 99.0 74.4 111.6

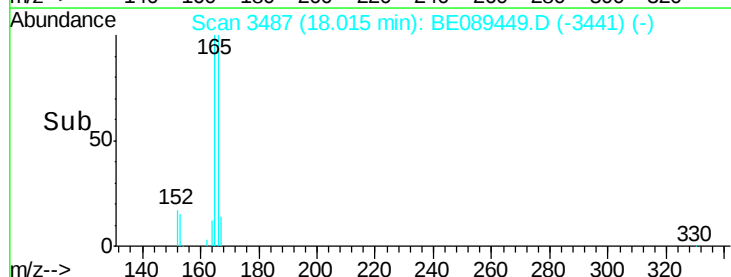
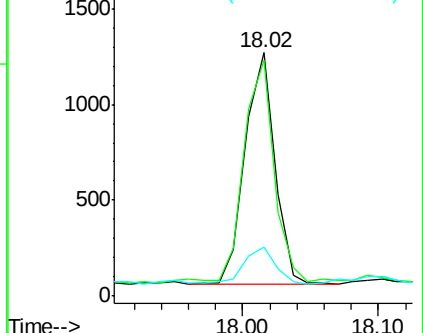
167 17.3 10.6 15.8#

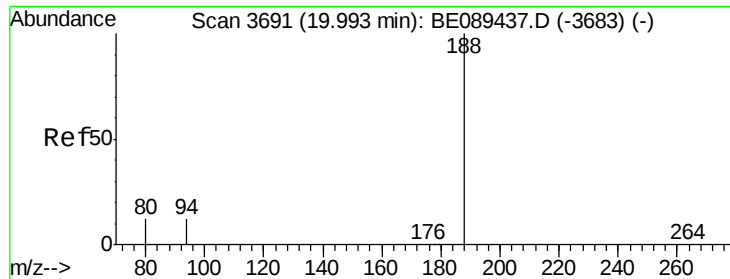


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

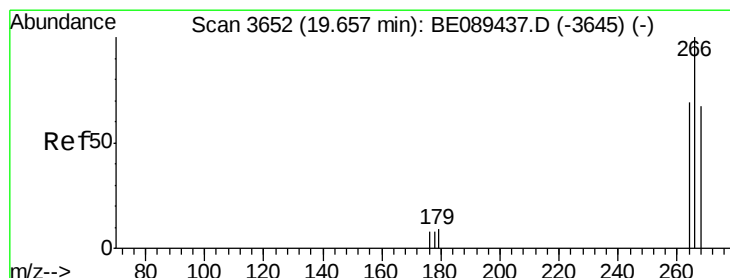
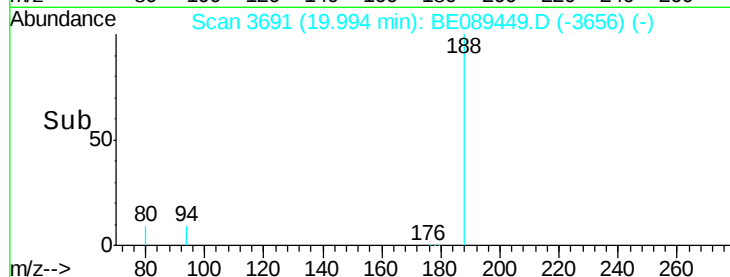
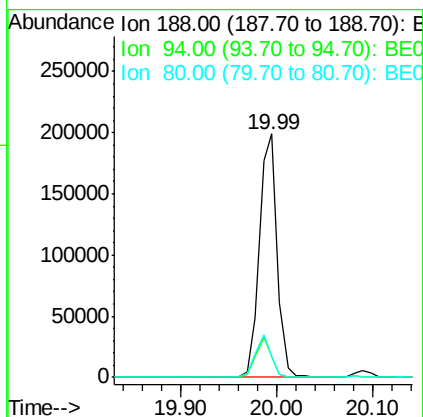
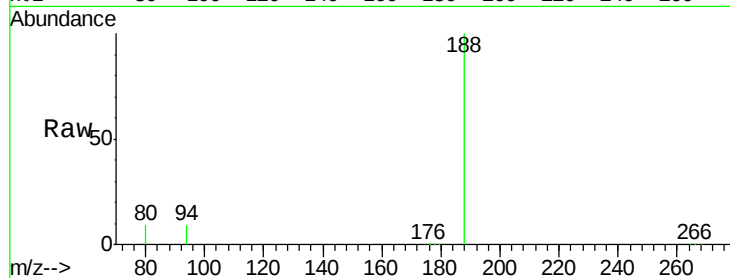




#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.99 min Scan# 3691
 Delta R.T. 0.00 min
 Lab File: BE089449.D
 Acq: 30 Jan 2015 21:57

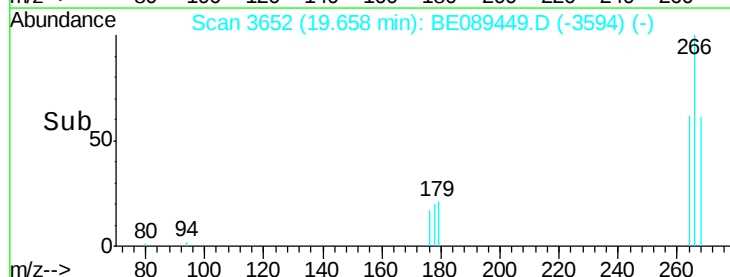
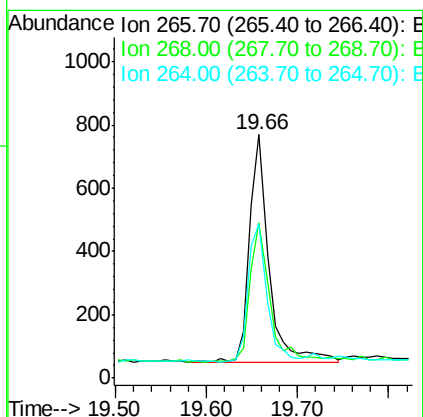
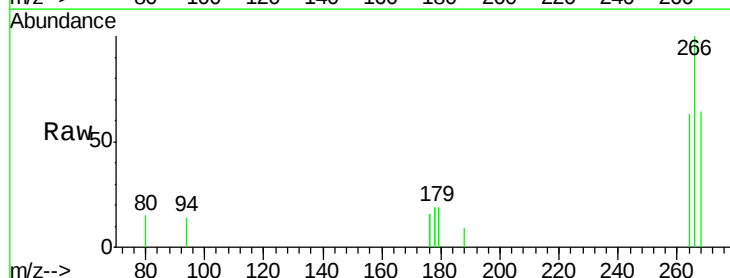
Instrument :
 BNA_E
 ClientSampleId :
 RBOE-TW1

Tgt Ion:188 Resp: 259614
 Ion Ratio Lower Upper
 188 100
 94 8.8 9.4 14.0#
 80 8.6 9.3 13.9#



#12
 Pentachlorophenol
 Concen: 0.69 ng
 RT: 19.66 min Scan# 3652
 Delta R.T. 0.00 min
 Lab File: BE089449.D
 Acq: 30 Jan 2015 21:57

Tgt Ion:266 Resp: 1057
 Ion Ratio Lower Upper
 266 100
 268 63.8 54.2 81.4
 264 63.1 56.2 84.2

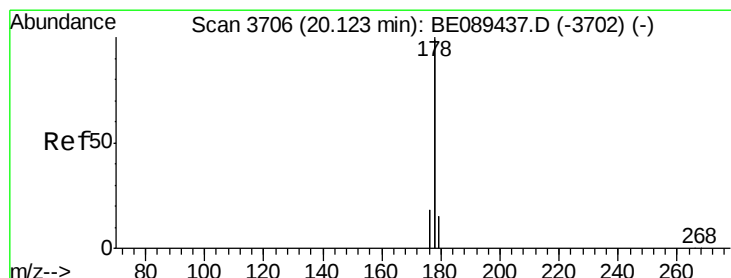
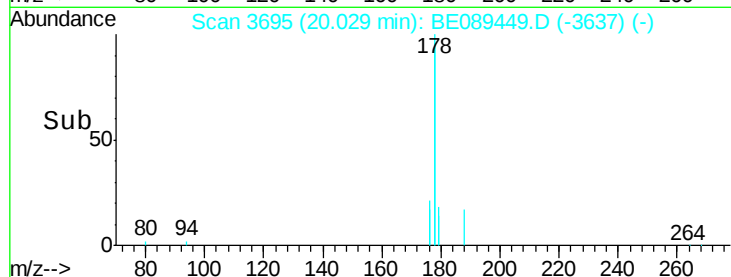
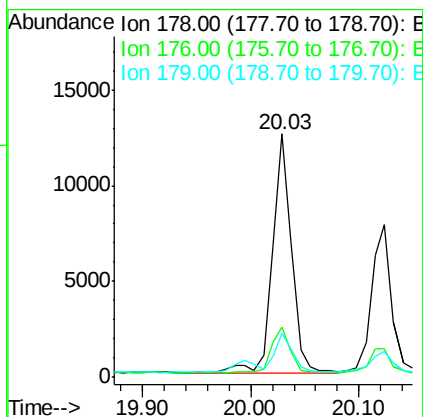
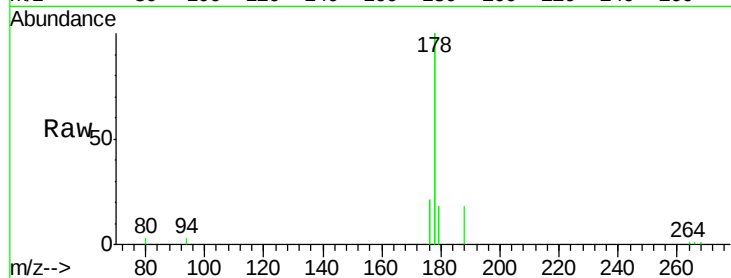




#13
Phenanthrene
Concen: 0.06 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089449.D
Acq: 30 Jan 2015 21:57

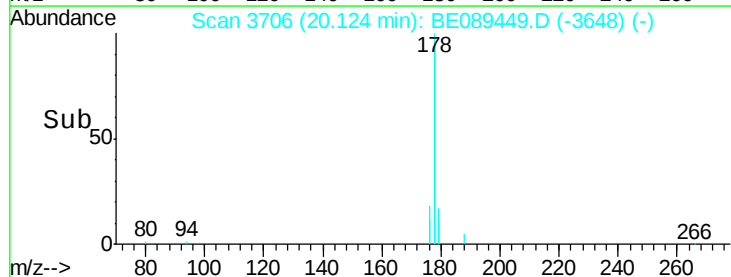
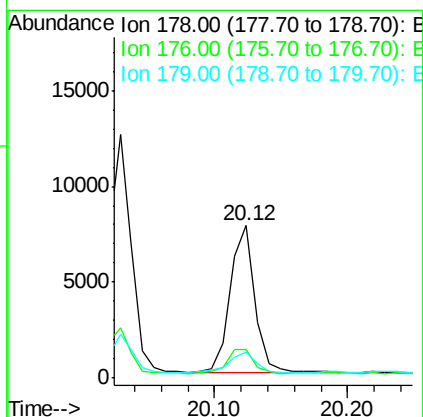
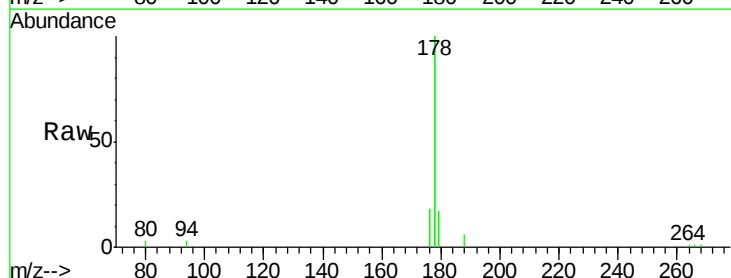
Instrument :
BNA_E
ClientSampleId :
RBOE-TW1

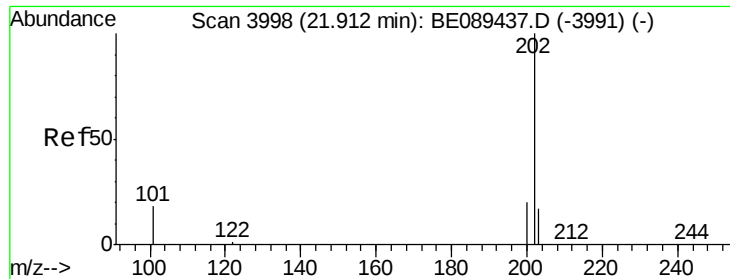
Tgt Ion:178 Resp: 15264
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 14.7 12.3 18.5



#14
Anthracene
Concen: 0.04 ng
RT: 20.12 min Scan# 3706
Delta R.T. 0.00 min
Lab File: BE089449.D
Acq: 30 Jan 2015 21:57

Tgt Ion:178 Resp: 9835
Ion Ratio Lower Upper
178 100
176 17.2 14.6 22.0
179 16.8 12.2 18.2





#15

Fluoranthene

Concen: 0.05 ng

RT: 21.91 min Scan# 3997

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

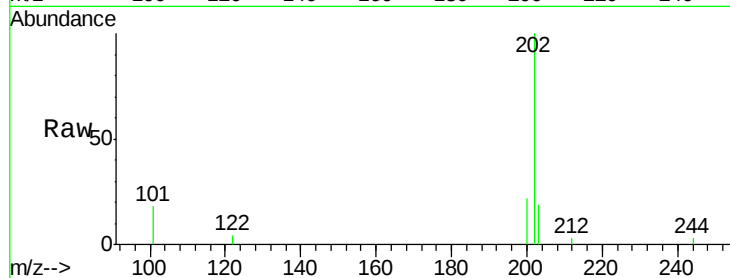
Tgt Ion: 202 Resp: 2523

Ion Ratio Lower Upper

202 100

101 17.4 13.6 20.4

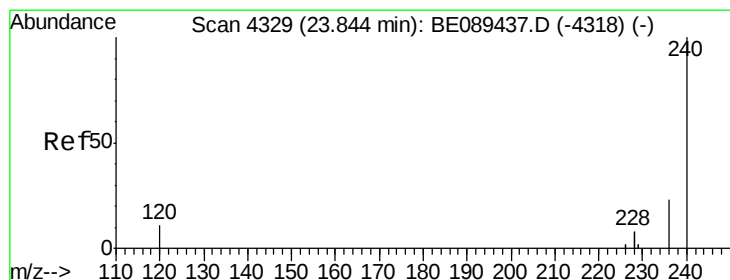
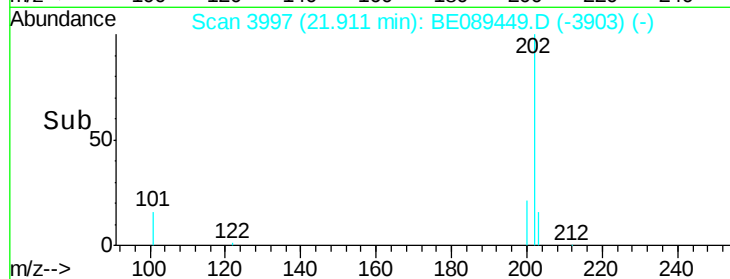
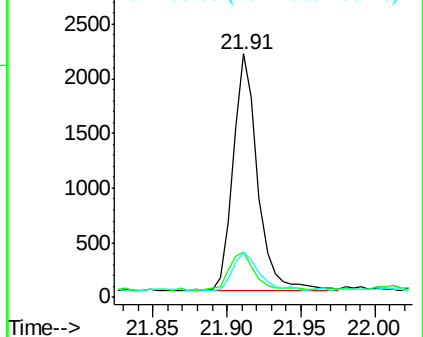
203 17.0 13.8 20.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.84 min Scan# 4327

Delta R.T. -0.01 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

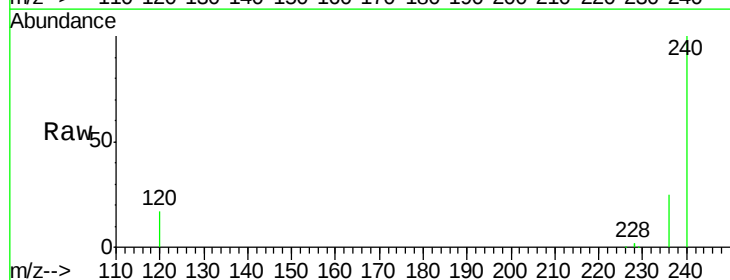
Tgt Ion: 240 Resp: 227028

Ion Ratio Lower Upper

240 100

120 17.2 8.6 13.0#

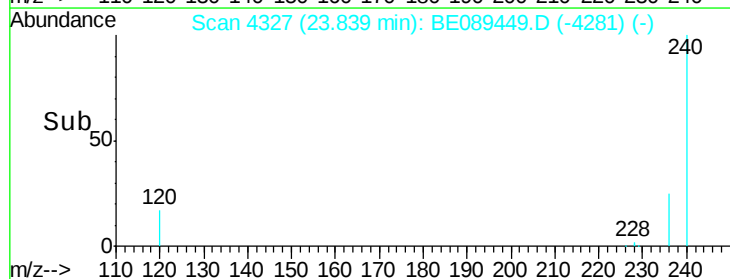
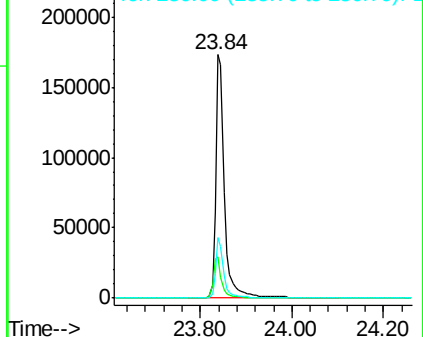
236 25.0 18.7 28.1

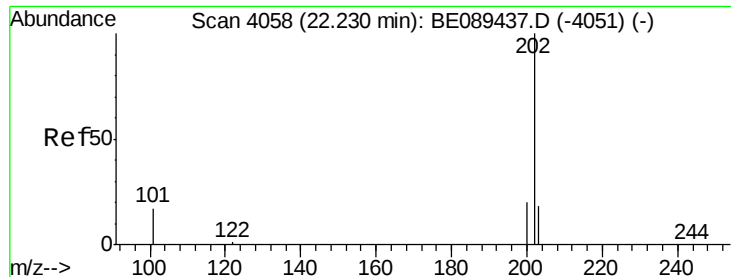


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.05 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

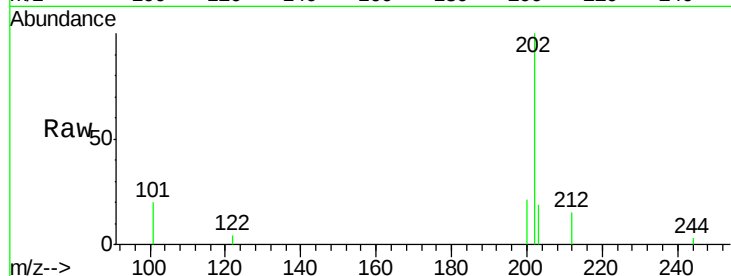
Tgt Ion:202 Resp: 2724

Ion Ratio Lower Upper

202 100

200 20.2 16.2 24.4

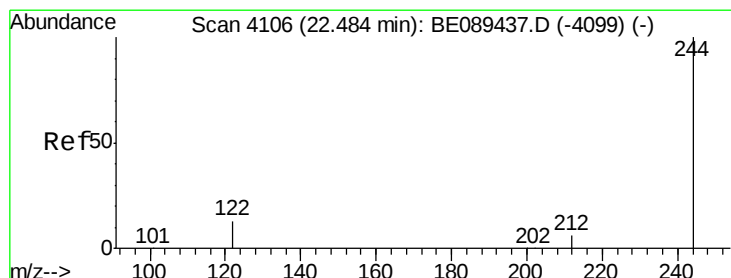
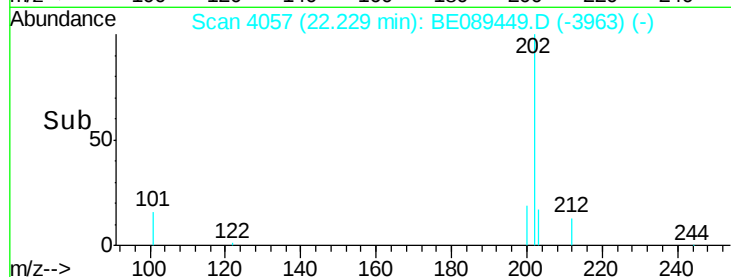
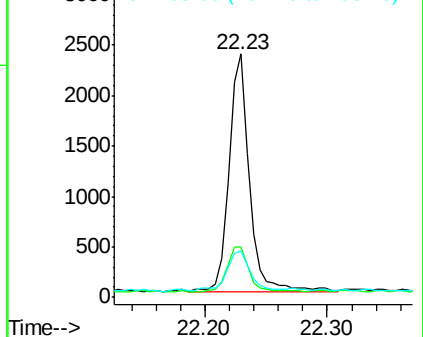
203 19.2 13.8 20.8



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



#18

Terphenyl-d14

Concen: 7.18 ng

RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

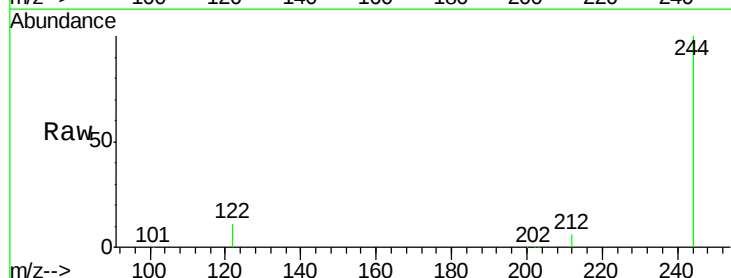
Tgt Ion:244 Resp: 244113

Ion Ratio Lower Upper

244 100

212 6.2 5.0 7.6

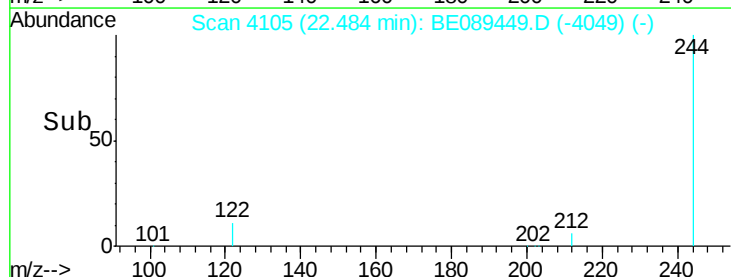
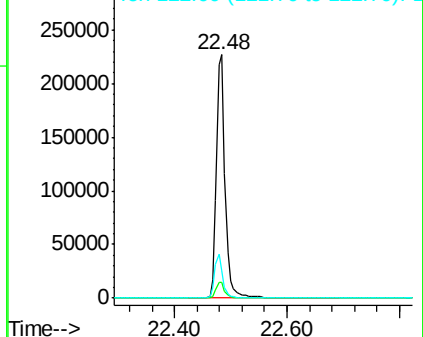
122 11.3 10.2 15.4



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





#19

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

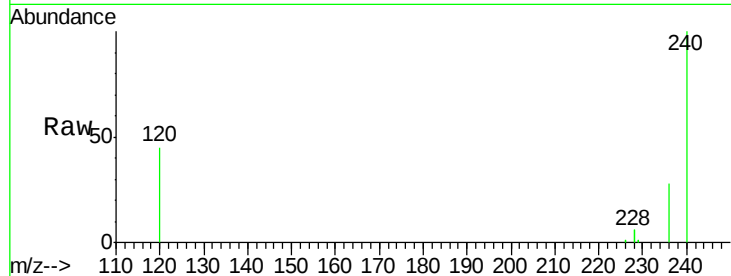
Tgt Ion:228 Resp: 9585

Ion Ratio Lower Upper

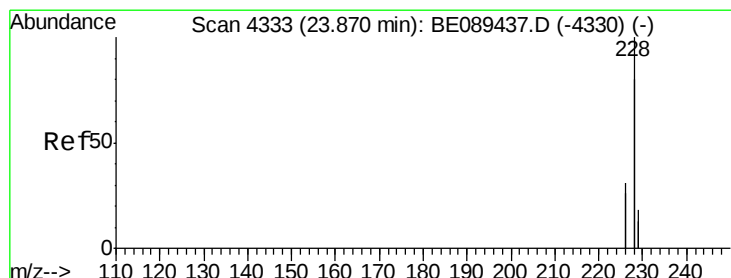
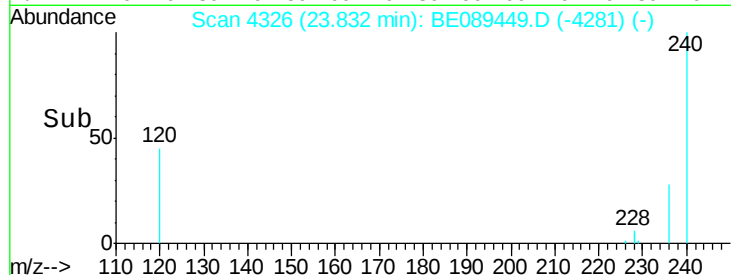
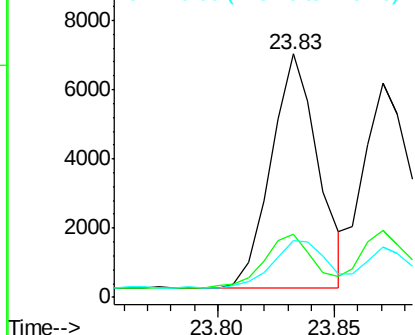
228 100

226 26.1 20.0 30.0

229 23.5 16.0 24.0



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



#20

Chrysene

Concen: 0.05 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

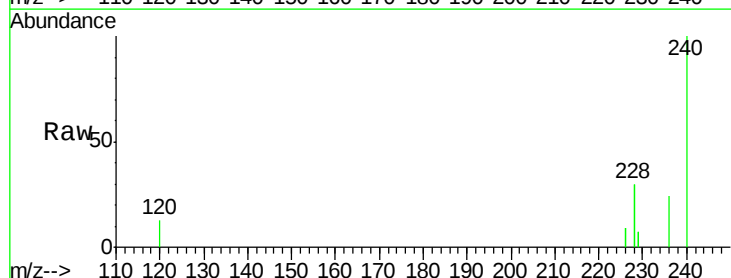
Tgt Ion:228 Resp: 10330

Ion Ratio Lower Upper

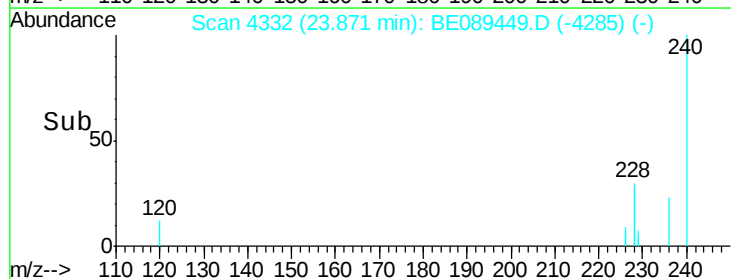
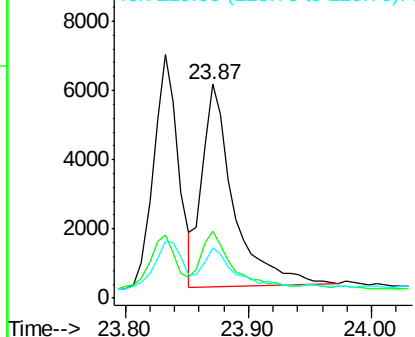
228 100

226 31.2 24.5 36.7

229 23.5 14.1 21.1#



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.02 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

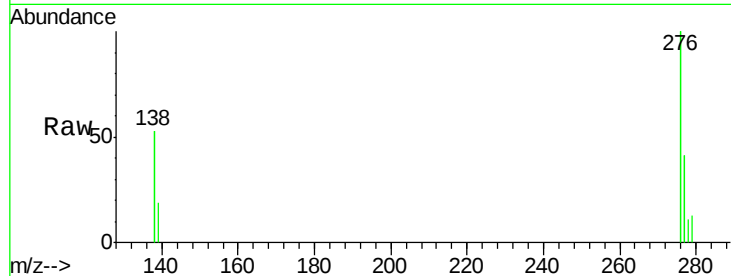
Tgt Ion:276 Resp: 3245

Ion Ratio Lower Upper

276 100

138 14.3 25.4 38.0#

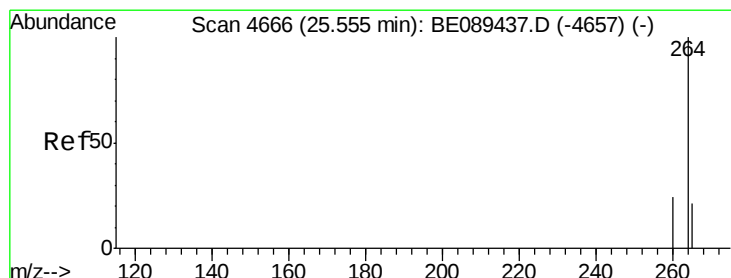
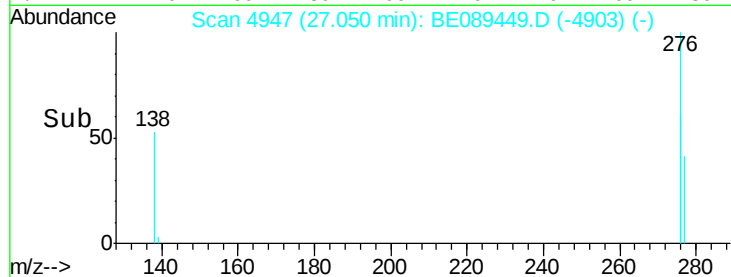
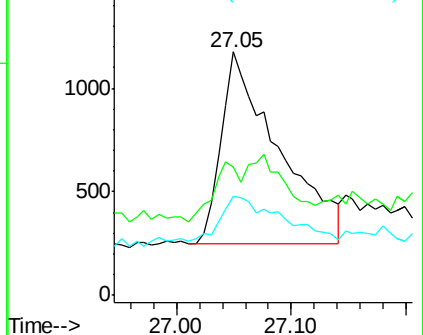
277 24.5 19.8 29.6



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4664

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

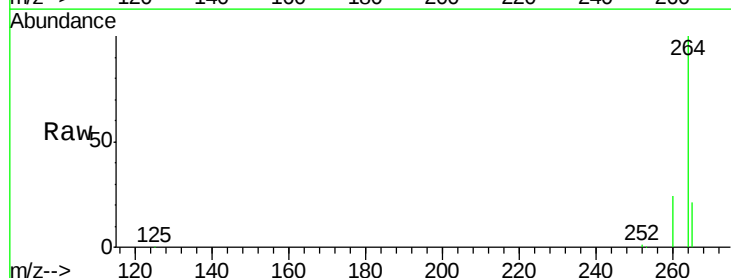
Tgt Ion:264 Resp: 209661

Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.0

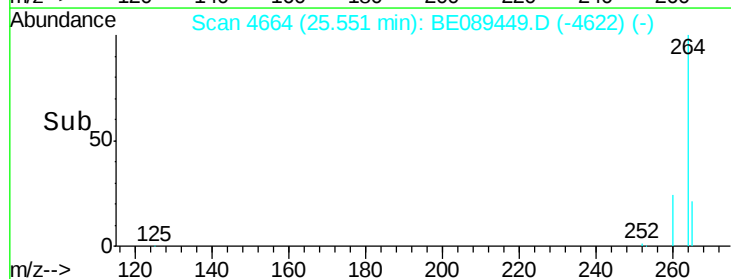
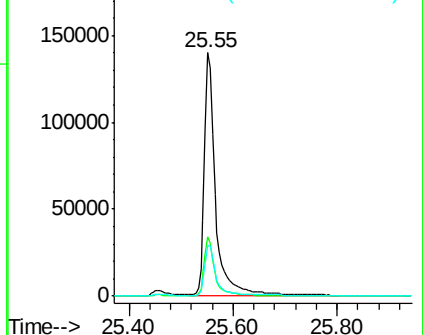
265 20.9 17.0 25.6



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





#23

Benzo(b)fluoranthene

Concen: 0.21 ng

RT: 25.10 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

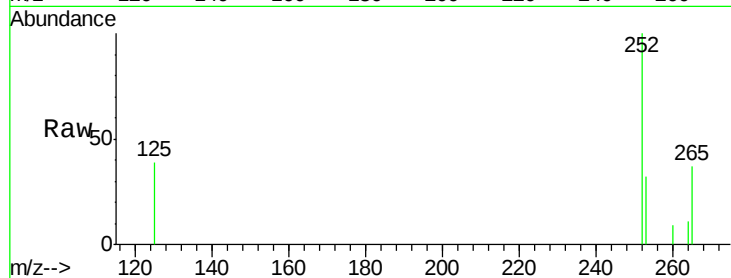
Tgt Ion:252 Resp: 864

Ion Ratio Lower Upper

252 100

253 31.6 17.0 25.6#

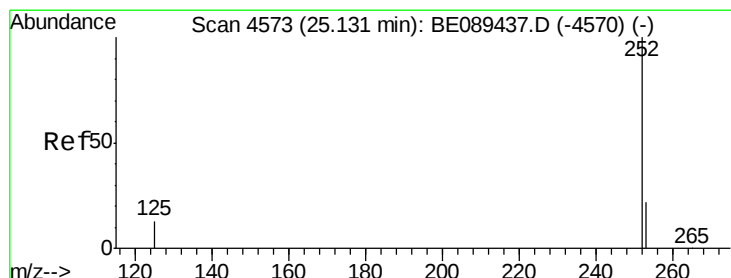
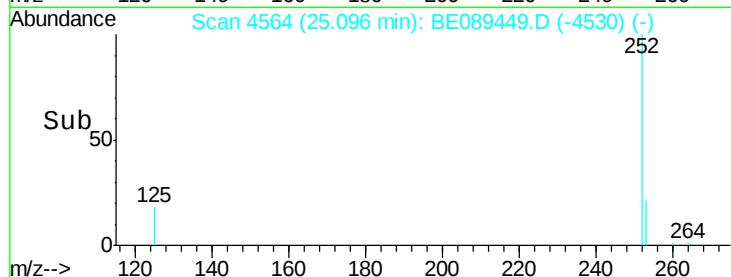
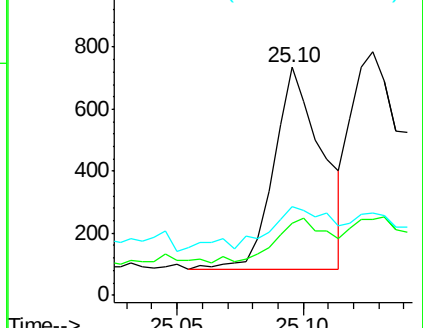
125 38.8 11.4 17.0#



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



#24

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

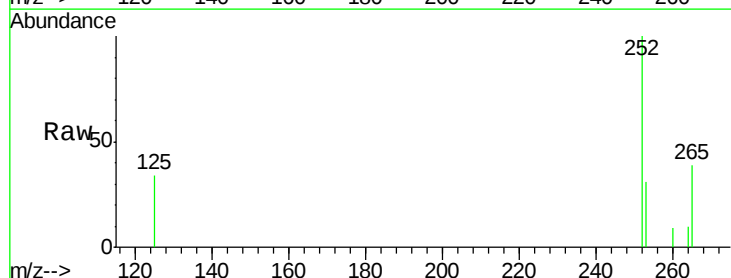
Tgt Ion:252 Resp: 936

Ion Ratio Lower Upper

252 100

253 31.2 17.4 26.2#

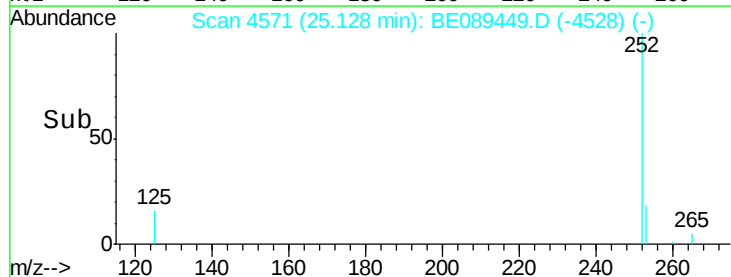
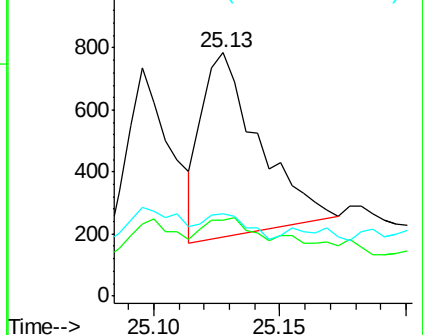
125 33.9 10.9 16.3#



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





#25

Benzo(a)pyrene

Concen: 0.15 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1

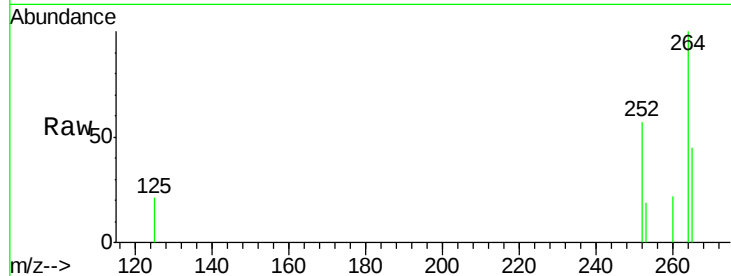
Tgt Ion: 252 Resp: 1242

Ion Ratio Lower Upper

252 100

253 33.4 17.3 25.9#

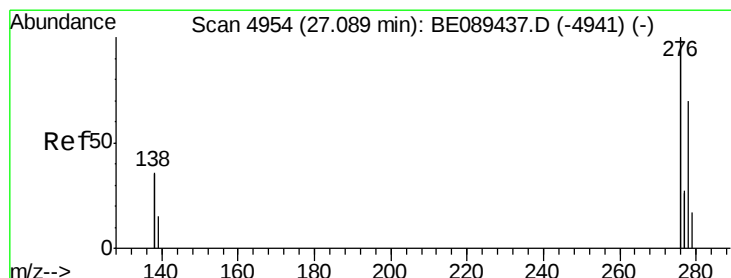
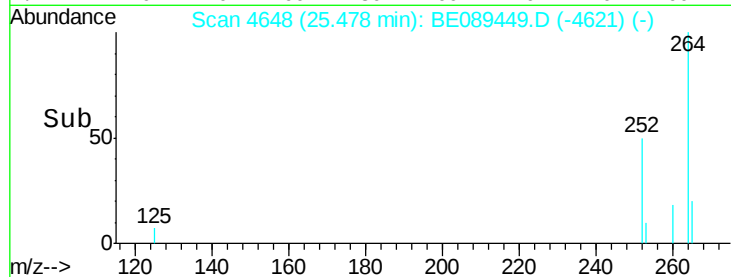
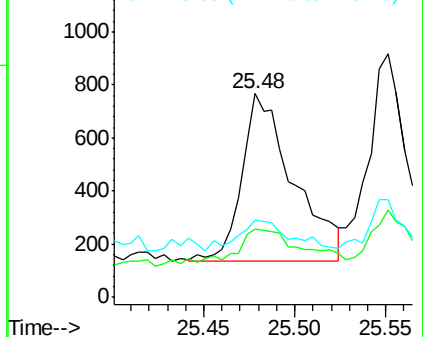
125 37.8 12.0 18.0#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089449.D

Acq: 30 Jan 2015 21:57

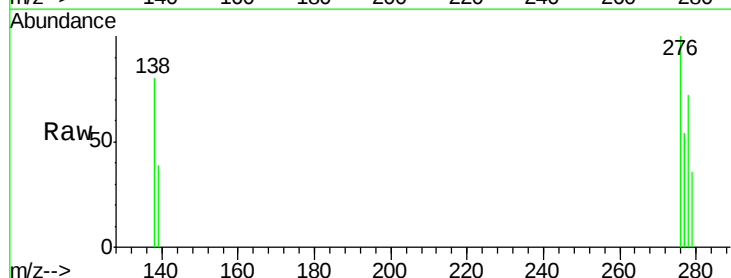
Tgt Ion: 278 Resp: 531

Ion Ratio Lower Upper

278 100

139 53.4 17.0 25.4#

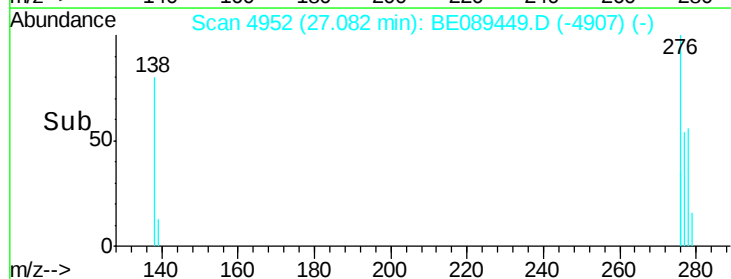
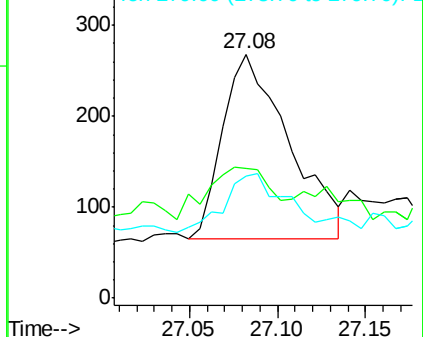
279 50.0 19.1 28.7#



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





#27

Benzo(g,h,i)perylene

Concen: 0.03 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

Lab File: BE089449.D

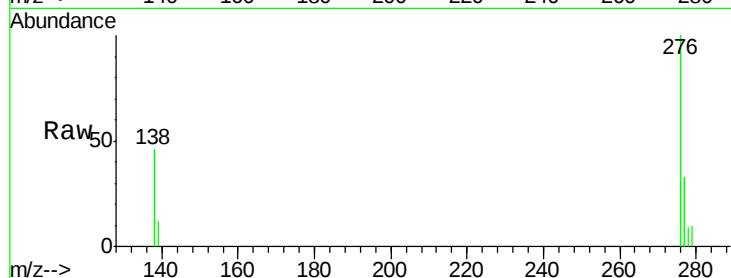
Acq: 30 Jan 2015 21:57

Instrument :

BNA_E

ClientSampleId :

RBOE-TW1



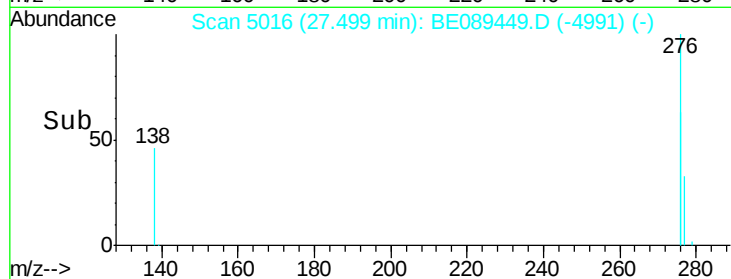
Tgt Ion: 276 Resp: 4220

Ion Ratio Lower Upper

276 100

277 32.6 18.4 27.6#

138 45.9 23.7 35.5#



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

