

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089838.D
 Acq On : 25 Mar 2015 8:58
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Mar 25 17:07:25 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 25 16:20:31 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	179860	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	707028	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	322863	5.00	ng	0.01
13) Phenanthrene-d10	17.92	188	552302	5.00	ng	0.00
19) Chrysene-d12	24.26	240	509010	5.00	ng	0.00
25) Perylene-d12	27.41	264	459690	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	6119	0.37	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	10140	0.13	ng	0.00
21) Terphenyl-d14	21.87	244	8462	0.11	ng	0.00

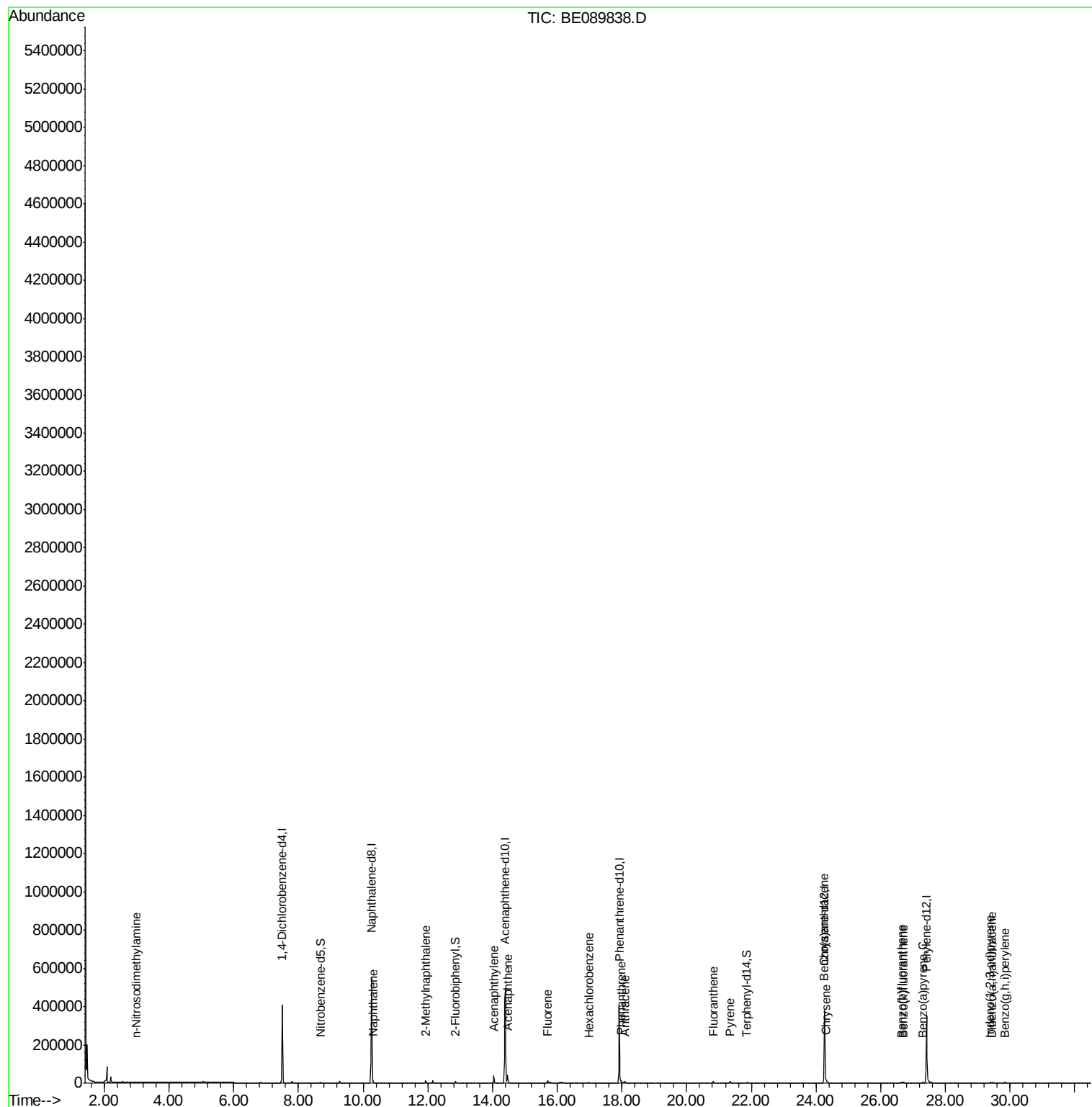
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.51	88	118	Below Cal	#	27
3) n-Nitrosodimethylamine	2.99	42	100	0.00	ng	# 1
6) Naphthalene	10.31	128	15627	0.11	ng	97
7) 2-Methylnaphthalene	11.93	142	8661	0.11	ng	96
10) Acenaphthylene	14.04	152	50175	0.11	ng	97
11) Acenaphthene	14.46	154	7869	0.11	ng	93
12) Fluorene	15.71	166	9513	0.11	ng	92
14) Hexachlorobenzene	16.98	284	2051	0.11	ng	99
15) Pentachlorophenol	17.64	266	59	Below Cal		98
16) Phenanthrene	17.97	178	14013	0.12	ng	98
17) Anthracene	18.10	178	11838	0.11	ng	97
18) Fluoranthene	20.82	202	12937	0.12	ng	99
20) Pyrene	21.35	202	13171	0.10	ng	99
22) Benzo(a)anthracene	24.25	228	11961	0.13	ng	98
23) Chrysene	24.32	228	11680	0.11	ng	94
24) Indeno(1,2,3-cd)pyrene	29.38	276	4665	0.46	ng	# 67
26) Benzo(b)fluoranthene	26.64	252	7013	0.38	ng	95
27) Benzo(k)fluoranthene	26.70	252	9549	0.10	ng	98
28) Benzo(a)pyrene	27.30	252	7439	0.37	ng	97
29) Dibenzo(a,h)anthracene	29.45	278	3926	0.32	ng	96
30) Benzo(g,h,i)perylene	29.84	276	8493	0.34	ng	96

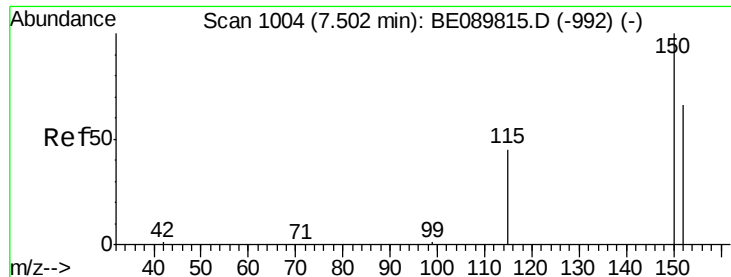
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.50 min Scan# 1004

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

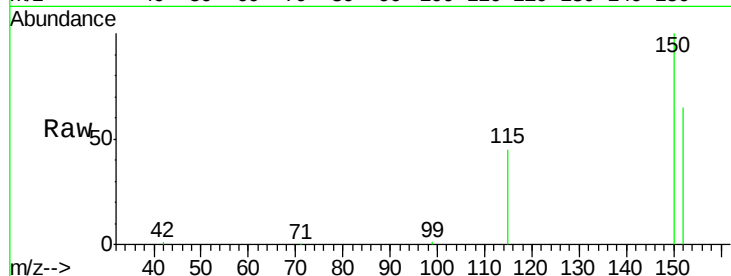
Tgt Ion:152 Resp: 179860

Ion Ratio Lower Upper

152 100

150 153.7 125.5 188.3

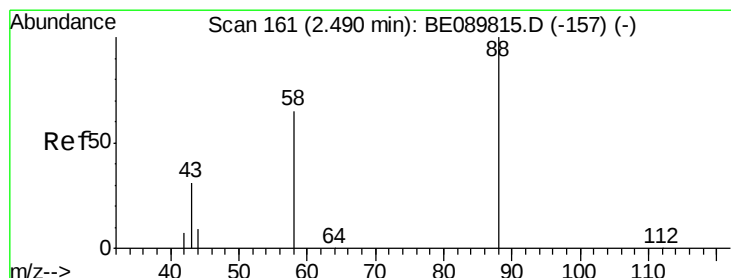
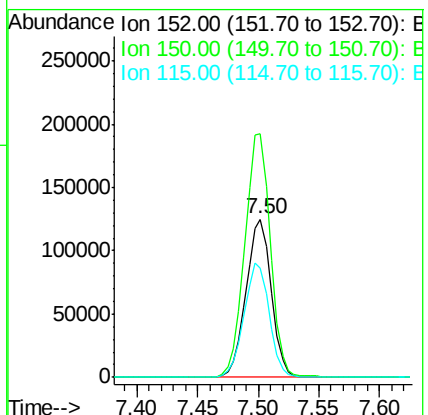
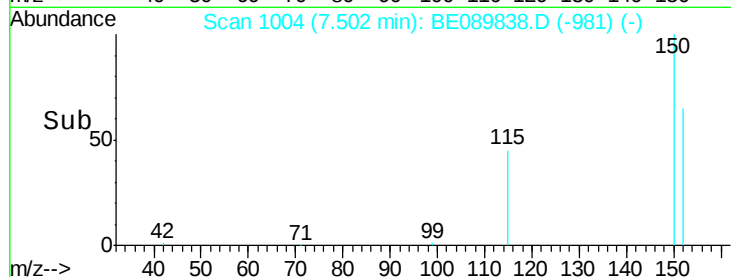
115 68.7 58.0 87.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: Below Cal

RT: 2.51 min Scan# 164

Delta R.T. -0.01 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

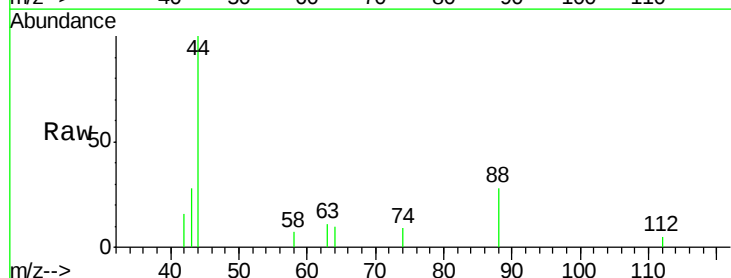
Tgt Ion: 88 Resp: 118

Ion Ratio Lower Upper

88 100

58 0.0 48.6 72.8#

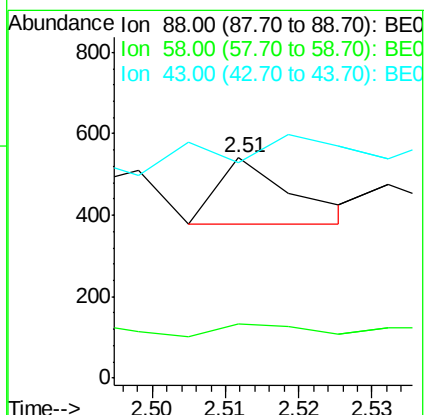
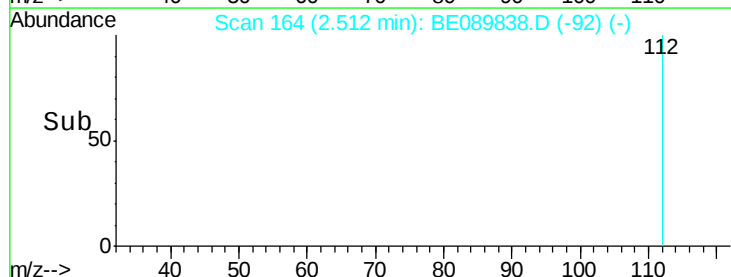
43 0.0 28.6 43.0#

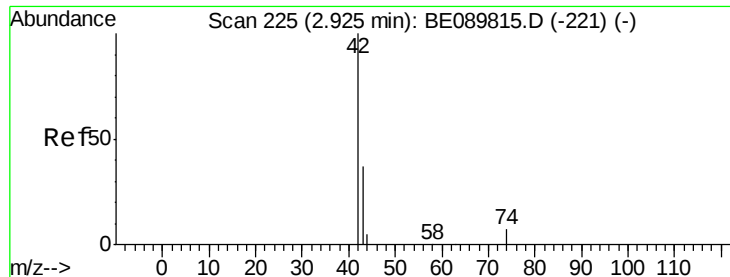


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.00 ng

RT: 2.99 min Scan# 234

Delta R.T. -0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

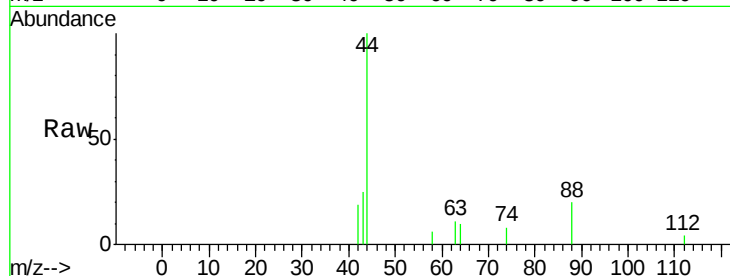
Tgt Ion: 42 Resp: 100

Ion Ratio Lower Upper

42 100

74 0.0 68.7 103.1#

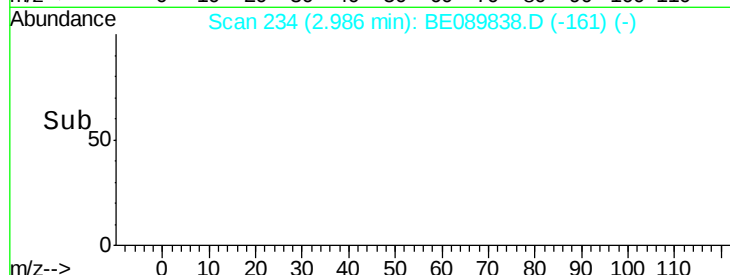
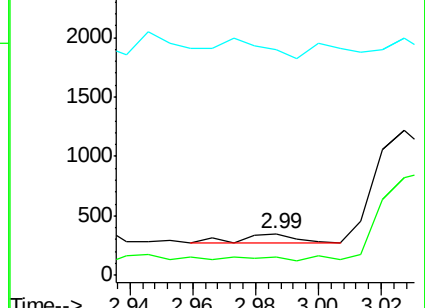
44 116.0 6.2 9.4#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.26 min Scan# 1868

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

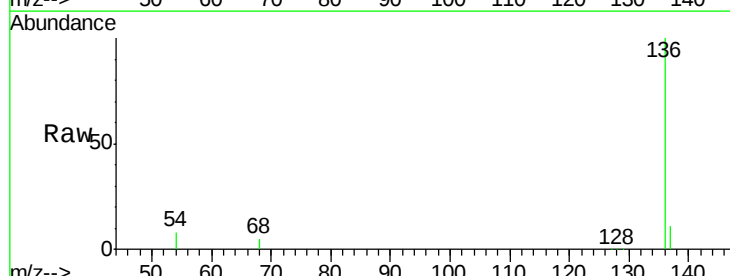
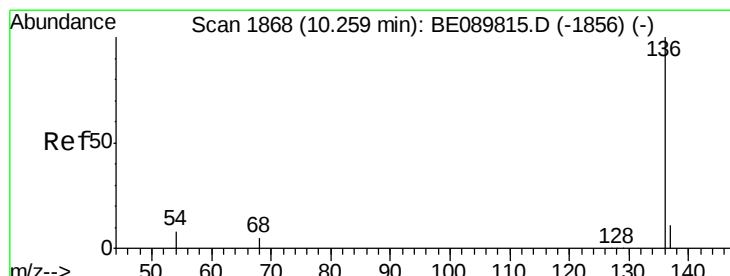
Tgt Ion: 136 Resp: 707028

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

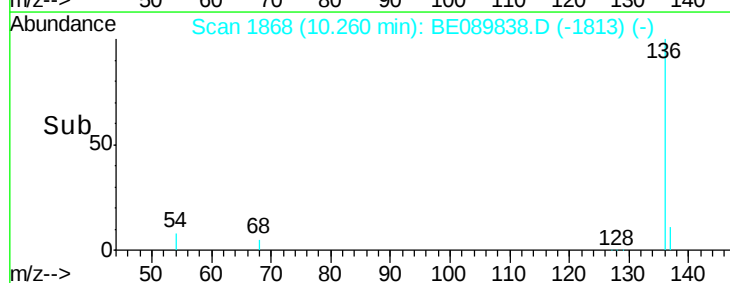
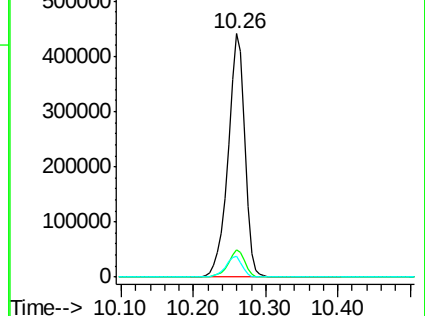
54 8.3 7.0 10.4

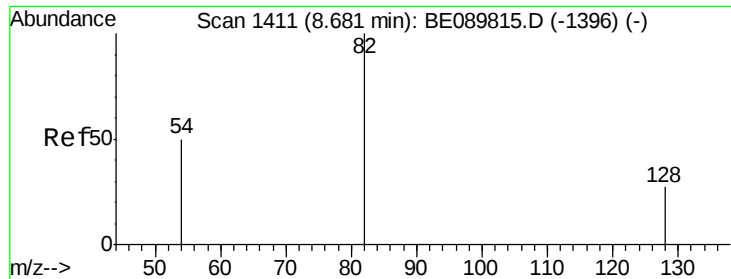


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.37 ng

RT: 8.68 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

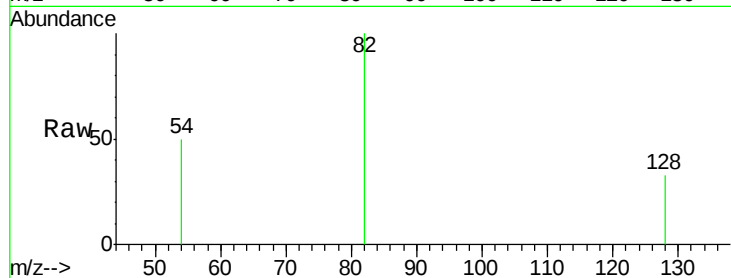
Tgt Ion: 82 Resp: 6119

Ion Ratio Lower Upper

82 100

128 33.3 24.6 37.0

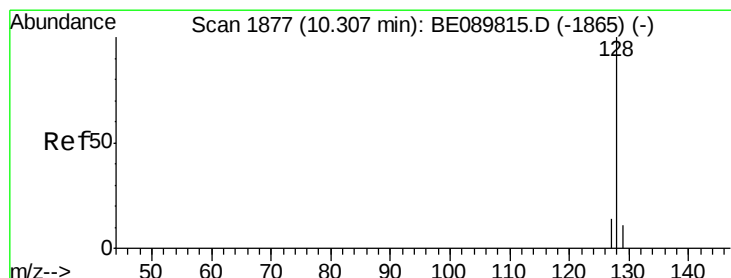
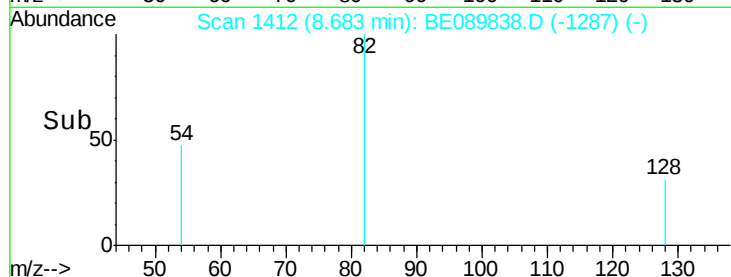
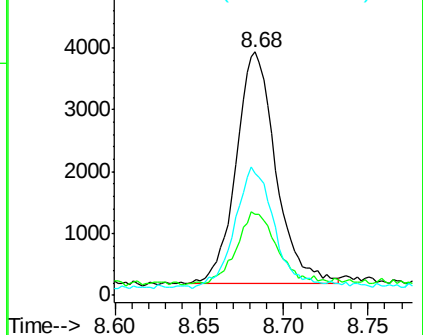
54 50.3 43.0 64.6



Abundance Ion 82.00 (81.70 to 82.70): BE089815.D (-1396) (-)

Ion 128.00 (127.70 to 128.70): BE089815.D (-1396) (-)

Ion 54.00 (53.70 to 54.70): BE089815.D (-1396) (-)



#6

Naphthalene

Concen: 0.11 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

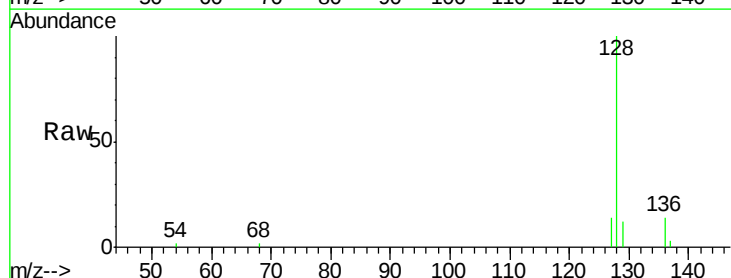
Tgt Ion: 128 Resp: 15627

Ion Ratio Lower Upper

128 100

129 11.8 10.0 15.0

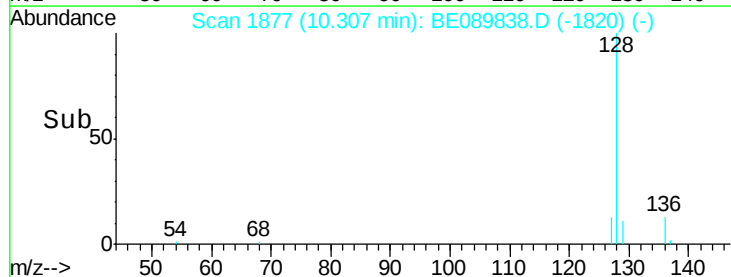
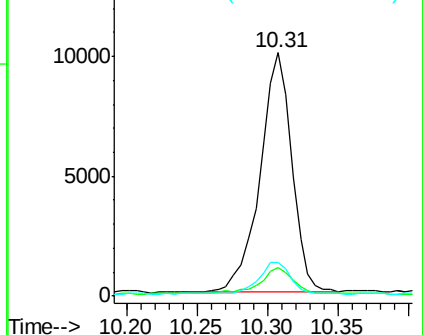
127 13.6 12.5 18.7

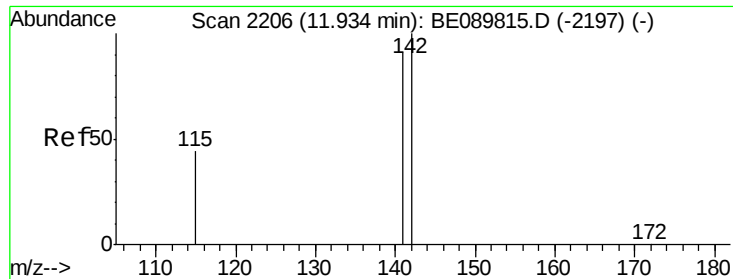


Abundance Ion 128.00 (127.70 to 128.70): BE089815.D (-1865) (-)

Ion 129.00 (128.70 to 129.70): BE089815.D (-1865) (-)

Ion 127.00 (126.70 to 127.70): BE089815.D (-1865) (-)





#7

2-Methylnaphthalene

Concen: 0.11 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

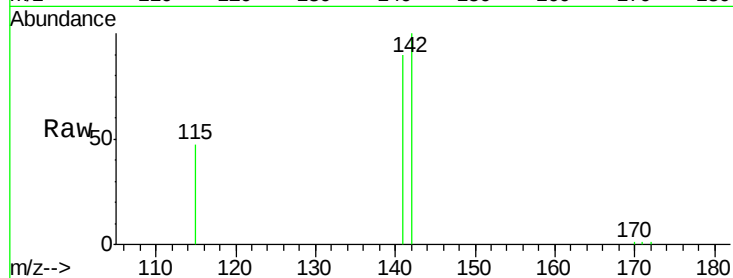
Tgt Ion:142 Resp: 8661

Ion Ratio Lower Upper

142 100

141 89.6 72.8 109.2

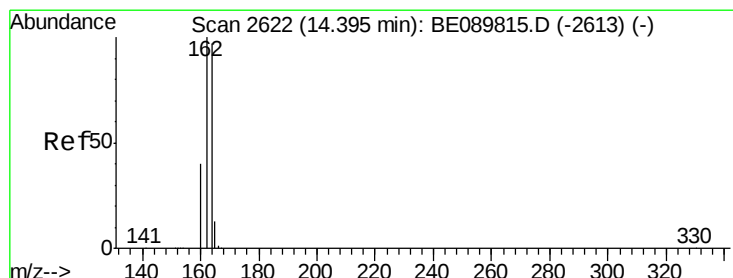
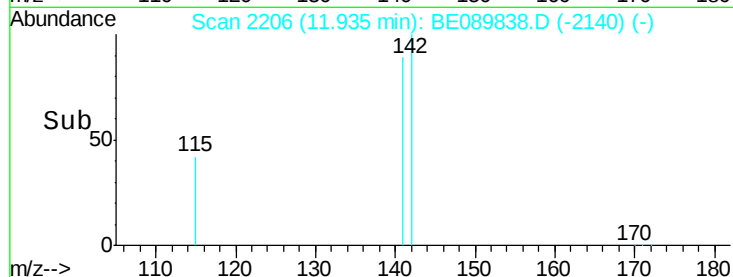
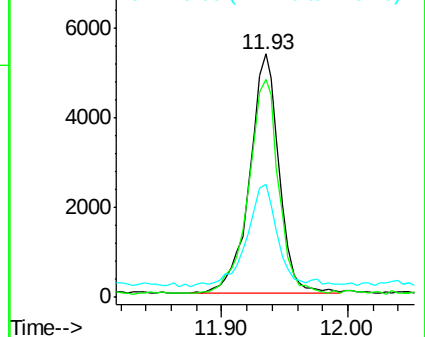
115 46.7 32.9 49.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

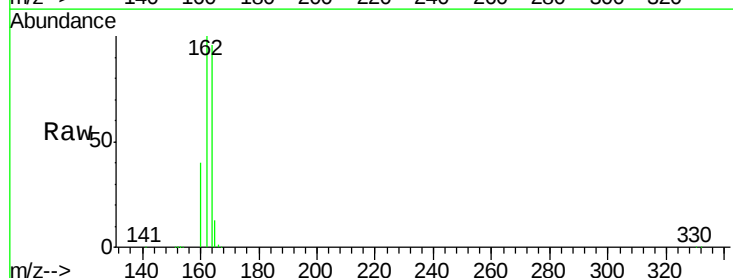
Tgt Ion:164 Resp: 322863

Ion Ratio Lower Upper

164 100

162 104.1 87.6 131.4

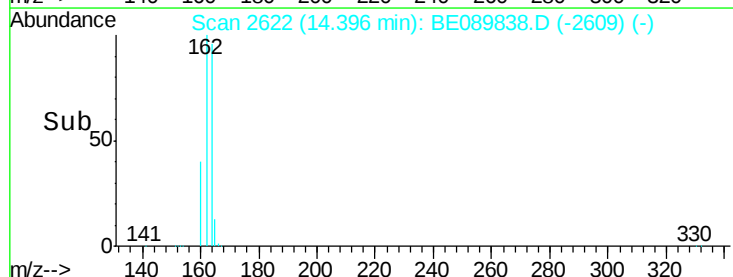
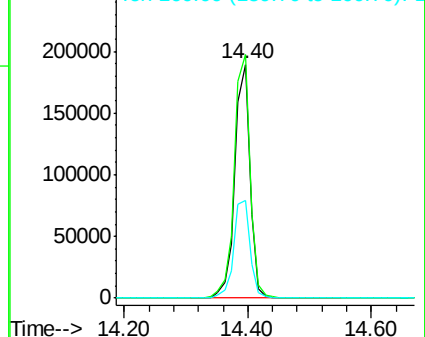
160 41.8 36.7 55.1

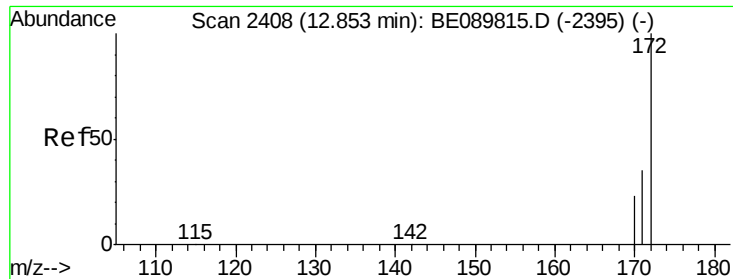


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.13 ng

RT: 12.85 min Scan# 2408

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

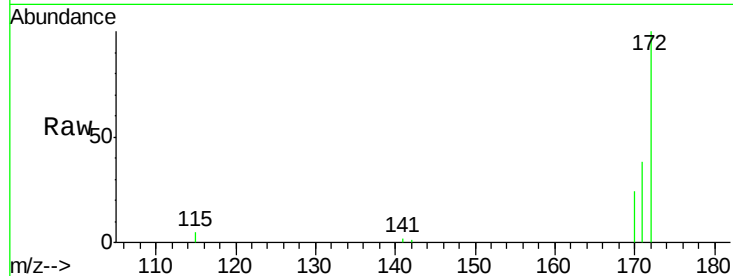
Tgt Ion:172 Resp: 10140

Ion Ratio Lower Upper

172 100

171 38.4 30.8 46.2

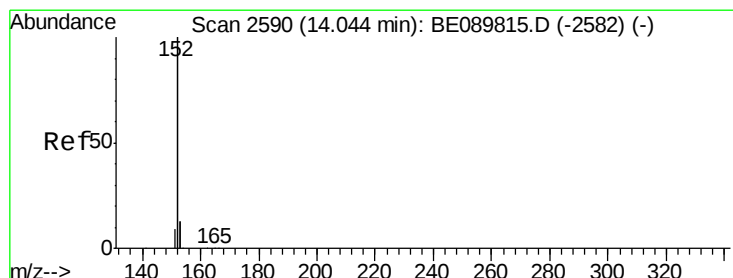
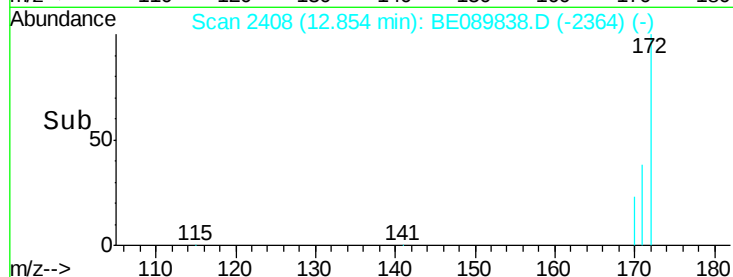
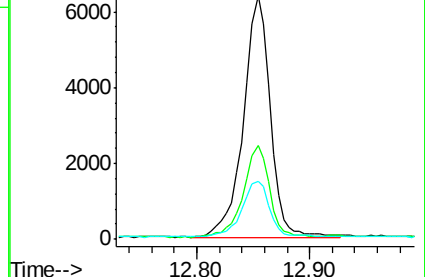
170 23.9 21.0 31.4



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.11 ng

RT: 14.04 min Scan# 2590

Delta R.T. -0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

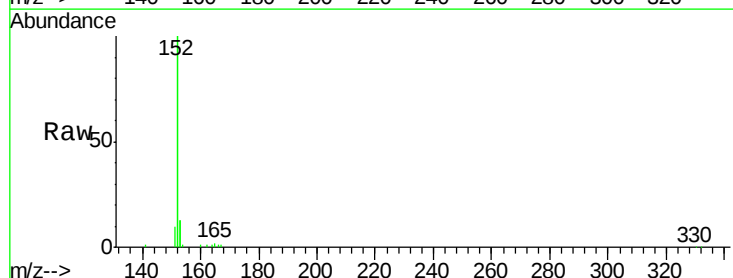
Tgt Ion:152 Resp: 50175

Ion Ratio Lower Upper

152 100

151 5.6 3.9 5.9

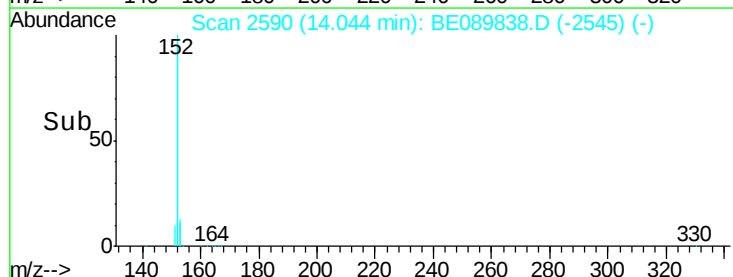
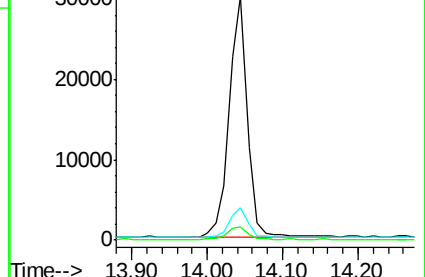
153 12.4 11.0 16.4

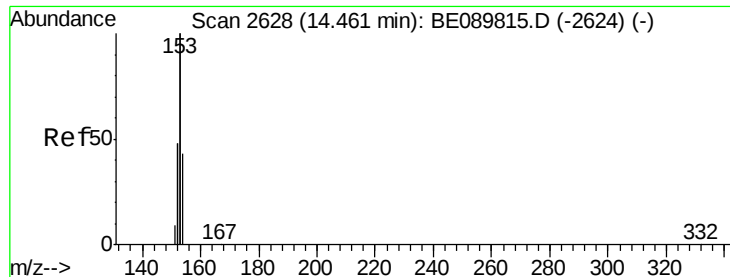


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.11 ng

RT: 14.46 min Scan# 2628

Delta R.T. -0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

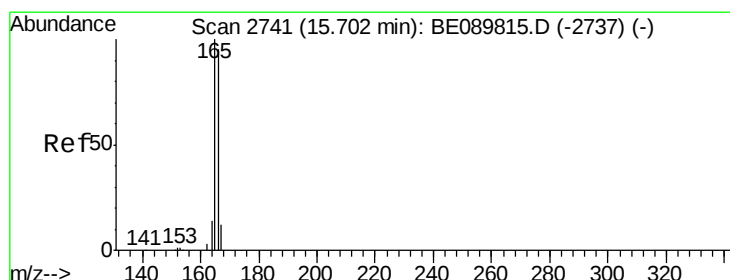
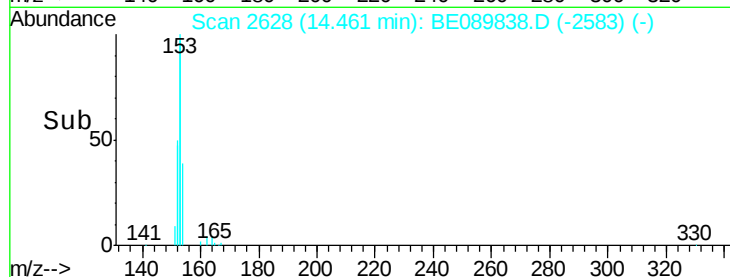
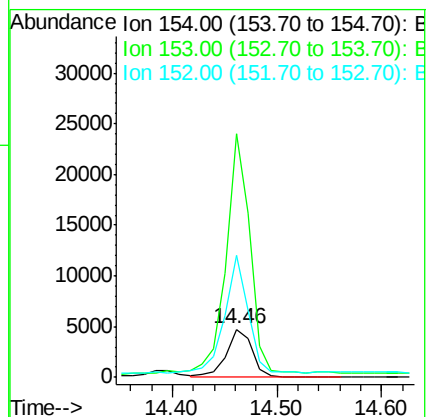
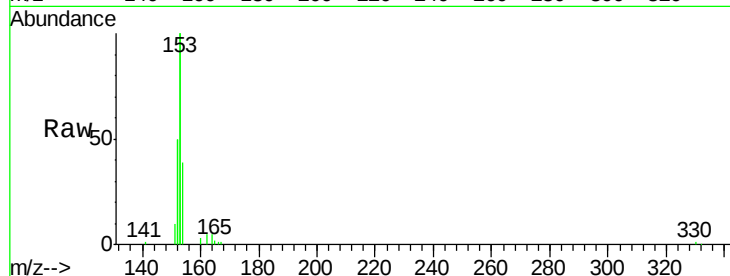
Tgt Ion:154 Resp: 7869

Ion Ratio Lower Upper

154 100

153 483.7 401.5 602.3

152 233.6 198.6 298.0



#12

Fluorene

Concen: 0.11 ng

RT: 15.71 min Scan# 2742

Delta R.T. -0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

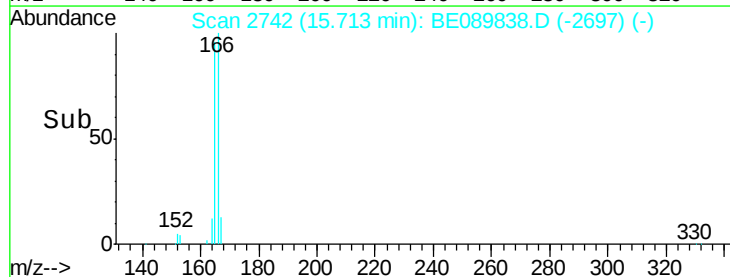
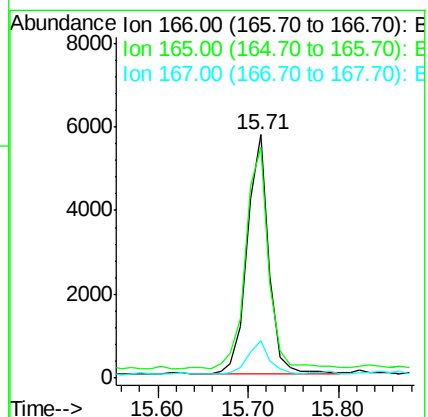
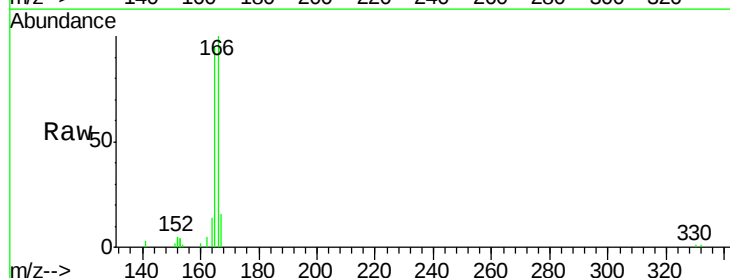
Tgt Ion:166 Resp: 9513

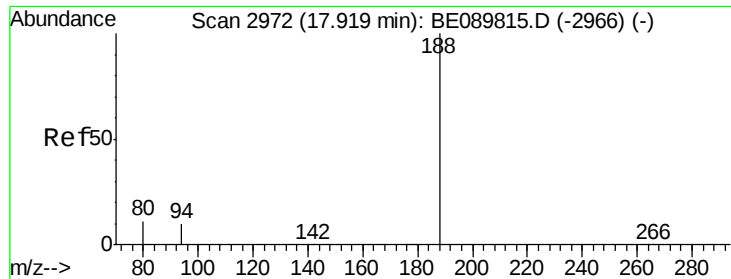
Ion Ratio Lower Upper

166 100

165 97.2 85.1 127.7

167 14.4 12.2 18.4

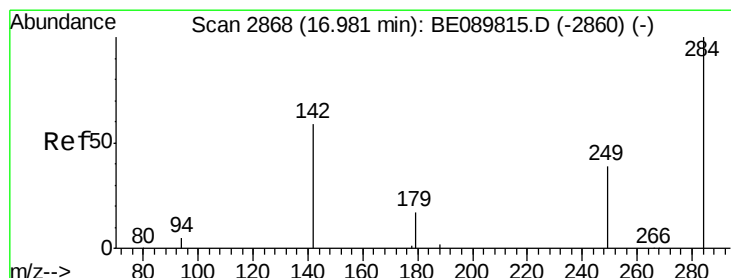
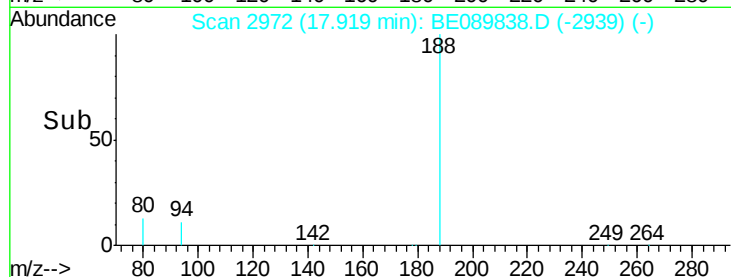
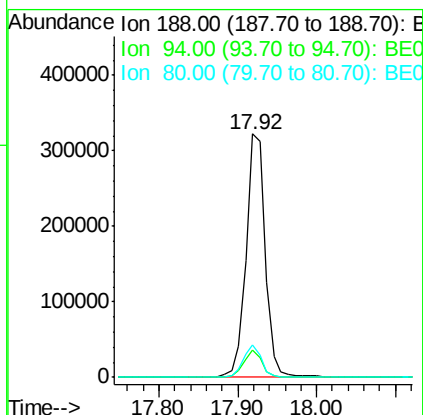
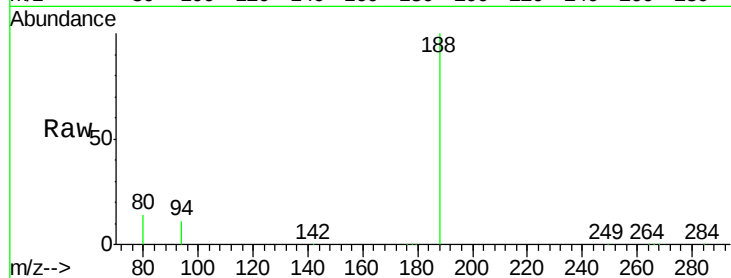




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2972
Delta R.T. -0.00 min
Lab File: BE089838.D
Acq: 25 Mar 2015 8:58

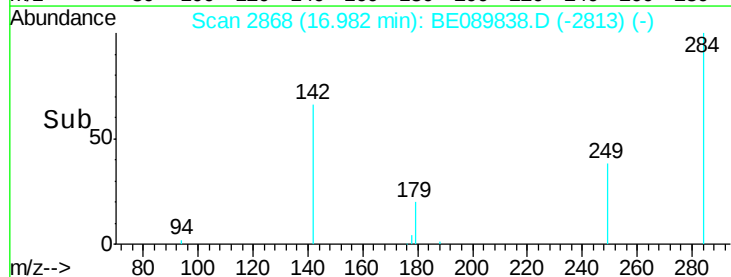
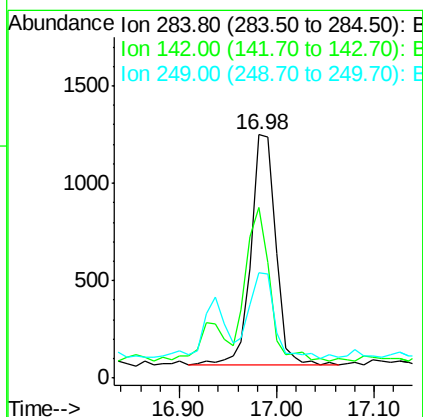
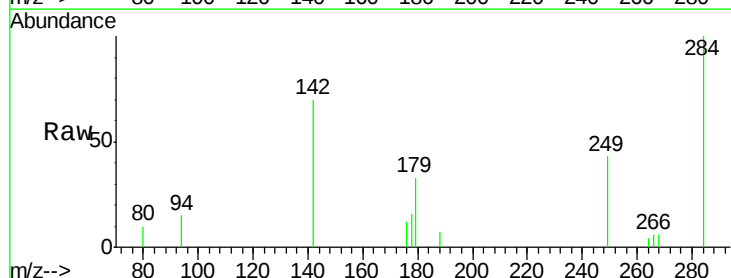
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

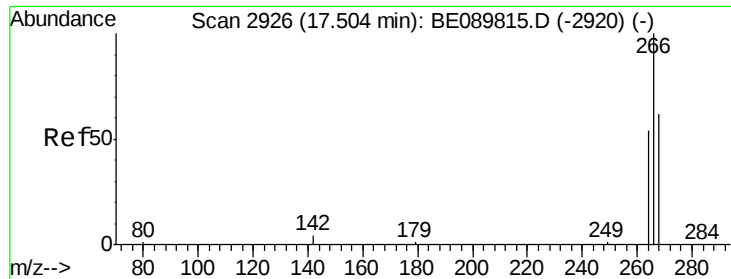
Tgt Ion:188 Resp: 552302
Ion Ratio Lower Upper
188 100
94 11.2 8.5 12.7
80 13.5 10.0 15.0



#14
Hexachlorobenzene
Concen: 0.11 ng
RT: 16.98 min Scan# 2868
Delta R.T. -0.00 min
Lab File: BE089838.D
Acq: 25 Mar 2015 8:58

Tgt Ion:284 Resp: 2051
Ion Ratio Lower Upper
284 100
142 66.2 53.3 79.9
249 38.5 31.1 46.7

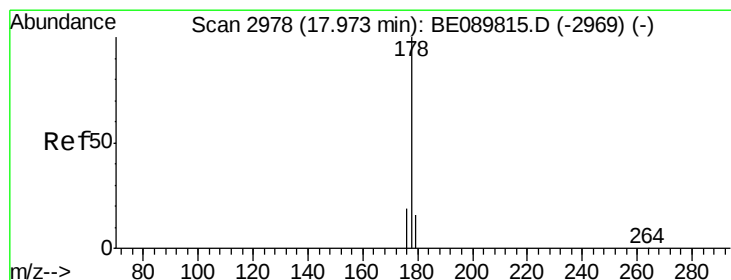
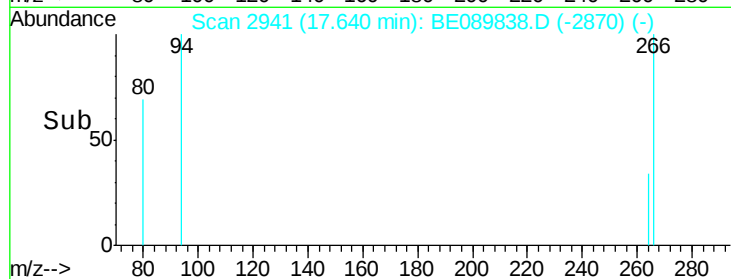
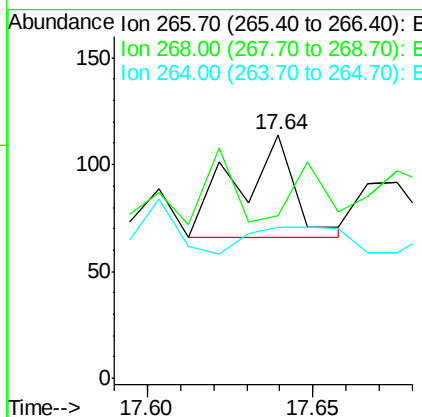
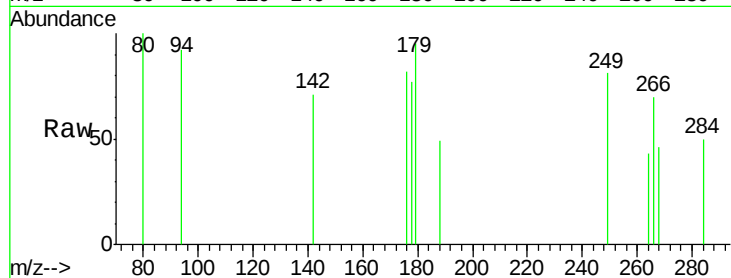




#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 17.64 min Scan# 2941
 Delta R.T. 0.14 min
 Lab File: BE089838.D
 Acq: 25 Mar 2015 8:58

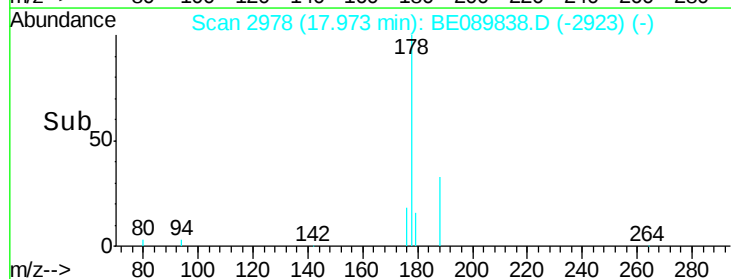
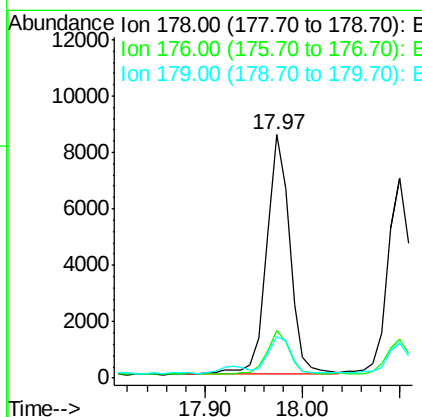
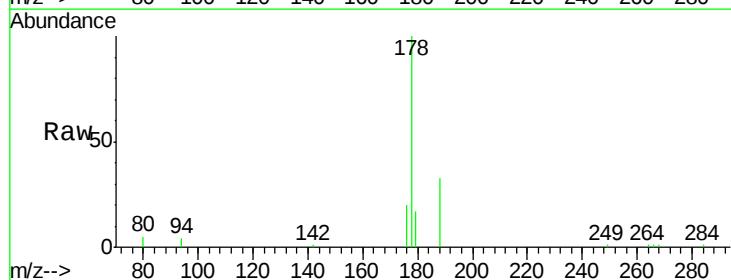
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

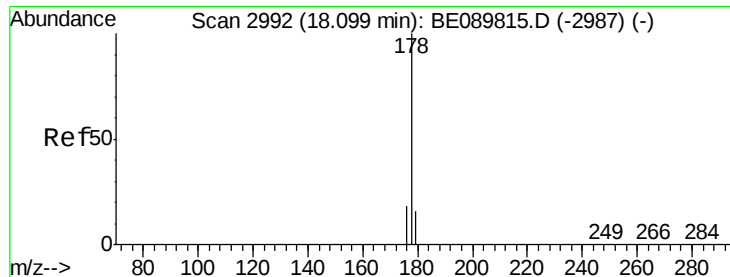
Tgt Ion:266 Resp: 59
 Ion Ratio Lower Upper
 266 100
 268 66.7 51.6 77.4
 264 62.3 50.2 75.2



#16
 Phenanthrene
 Concen: 0.12 ng
 RT: 17.97 min Scan# 2978
 Delta R.T. -0.00 min
 Lab File: BE089838.D
 Acq: 25 Mar 2015 8:58

Tgt Ion:178 Resp: 14013
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.4 23.0
 179 16.1 12.2 18.4





#17

Anthracene

Concen: 0.11 ng

RT: 18.10 min Scan# 2992

Delta R.T. -0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

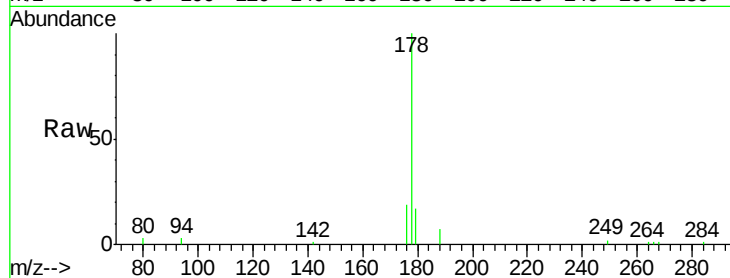
Tgt Ion:178 Resp: 11838

Ion Ratio Lower Upper

178 100

176 17.3 14.6 21.8

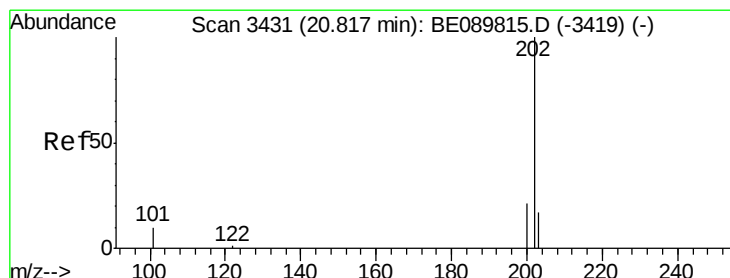
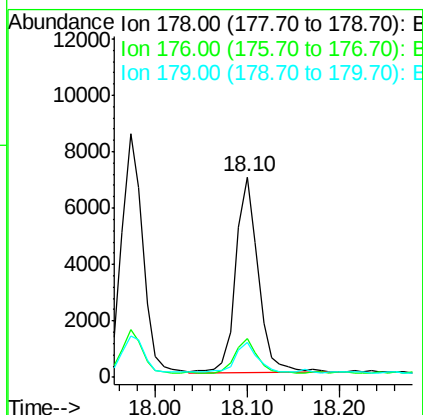
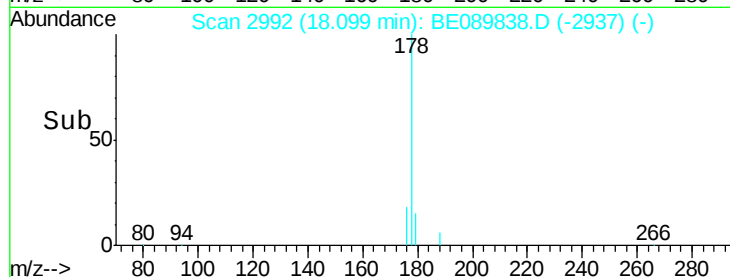
179 16.6 12.1 18.1



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



#18

Fluoranthene

Concen: 0.12 ng

RT: 20.82 min Scan# 3432

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

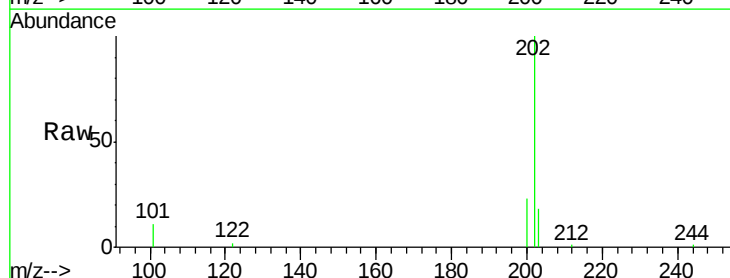
Tgt Ion:202 Resp: 12937

Ion Ratio Lower Upper

202 100

101 10.1 8.2 12.2

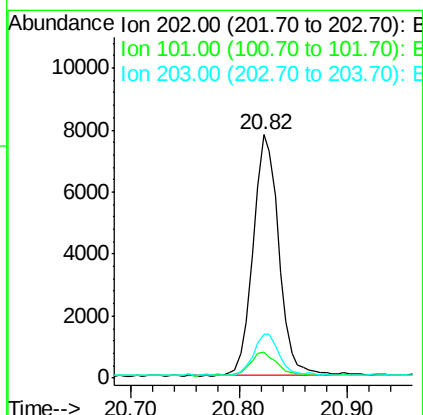
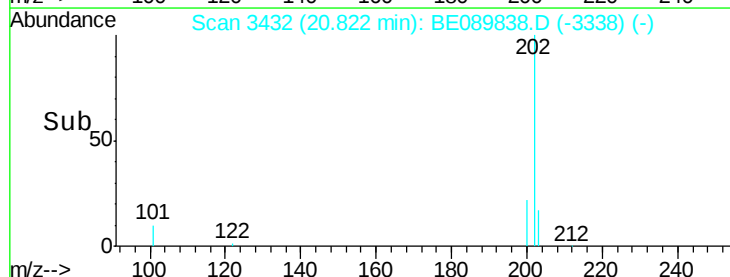
203 17.4 14.2 21.4

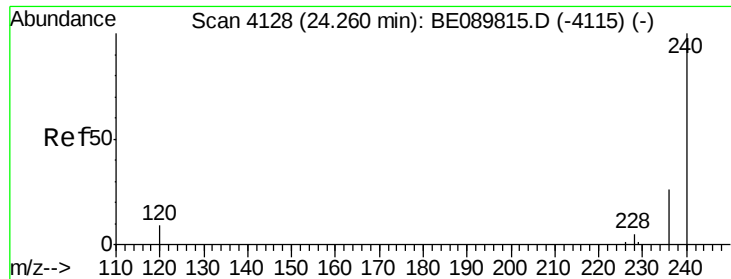


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.26 min Scan# 4129

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

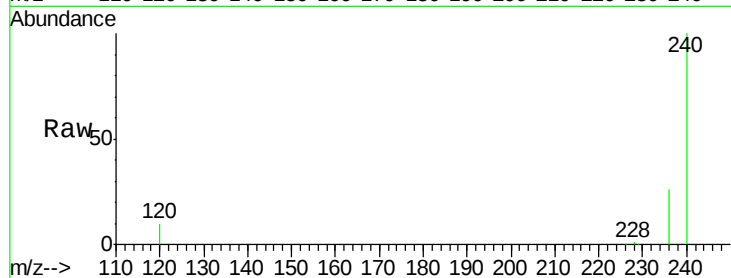
Tgt Ion:240 Resp: 509010

Ion Ratio Lower Upper

240 100

120 9.8 7.5 11.3

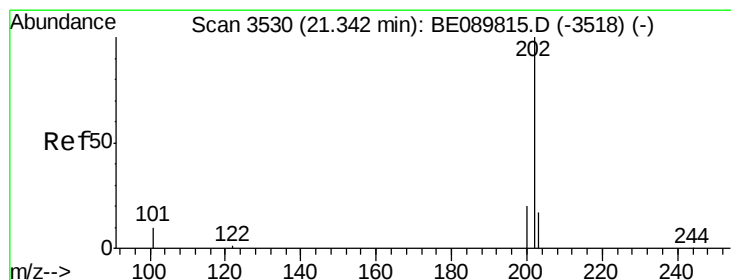
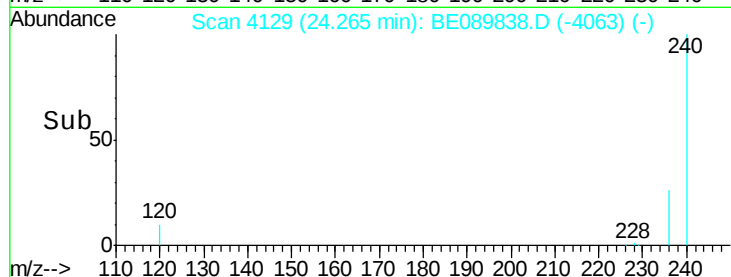
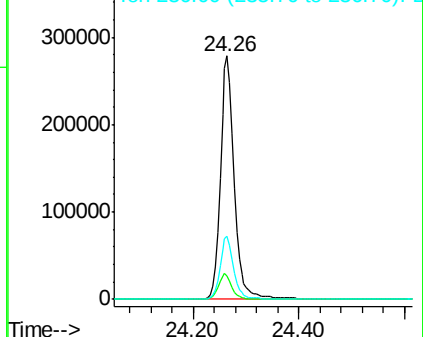
236 25.8 20.5 30.7



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



#20

Pyrene

Concen: 0.10 ng

RT: 21.35 min Scan# 3531

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

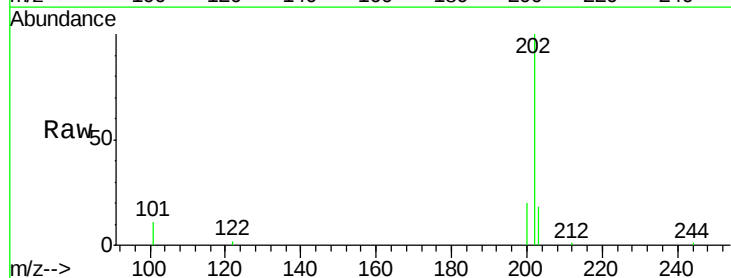
Tgt Ion:202 Resp: 13171

Ion Ratio Lower Upper

202 100

200 20.3 15.9 23.9

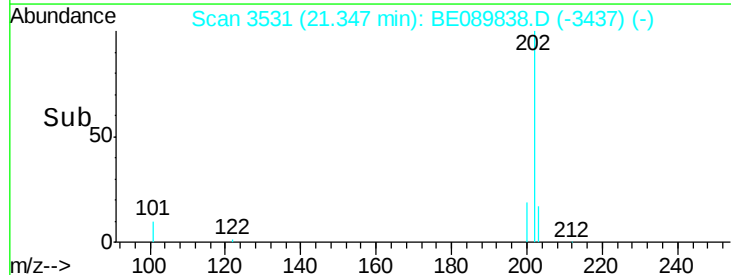
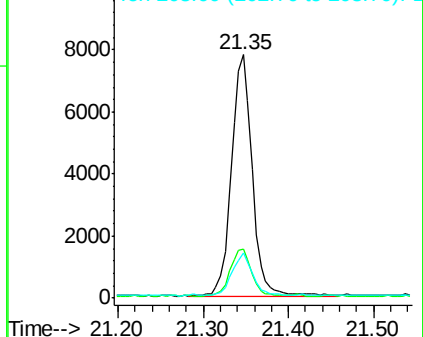
203 17.3 13.6 20.4

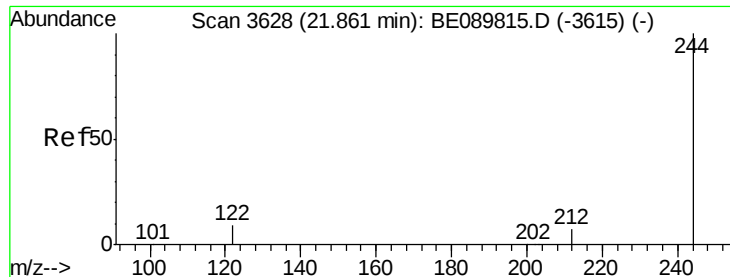


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.11 ng

RT: 21.87 min Scan# 3629

Delta R.T. 0.01 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

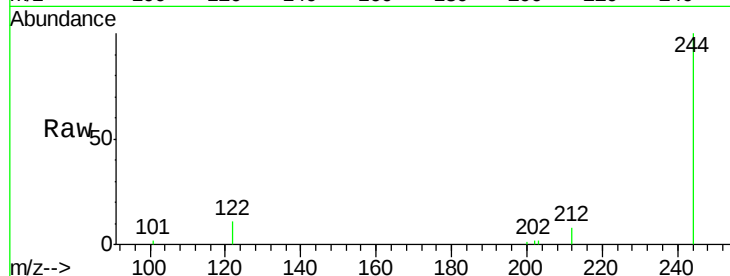
Tgt Ion:244 Resp: 8462

Ion Ratio Lower Upper

244 100

212 8.2 7.3 10.9

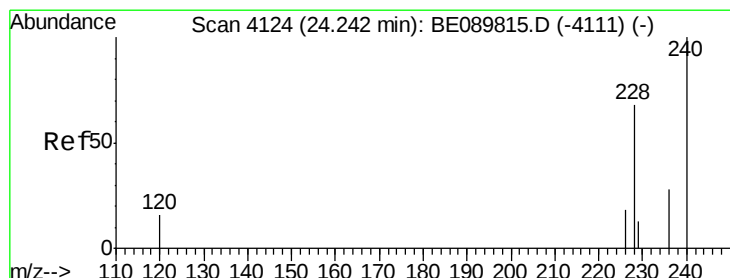
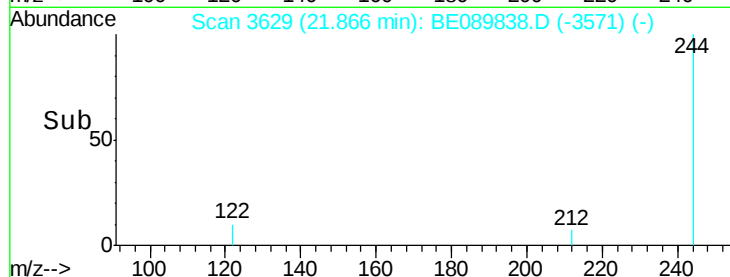
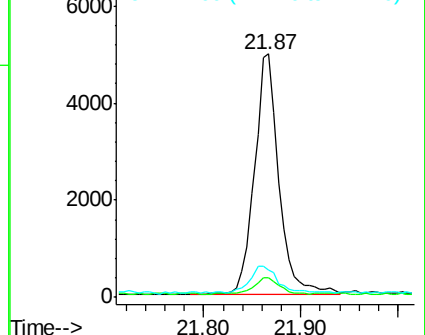
122 11.3 10.5 15.7



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.13 ng

RT: 24.25 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

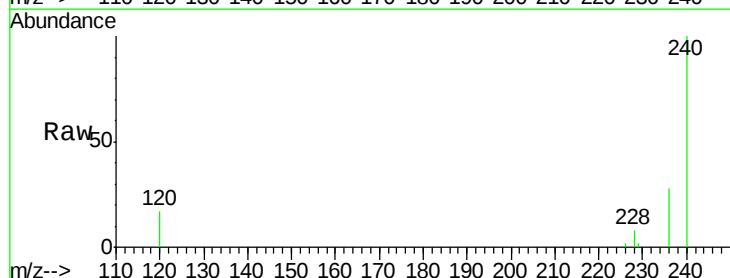
Tgt Ion:228 Resp: 11961

Ion Ratio Lower Upper

228 100

226 25.8 19.8 29.8

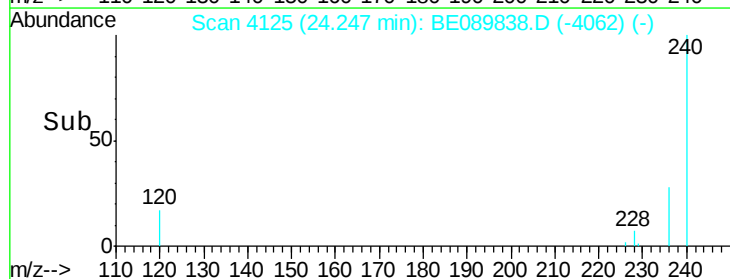
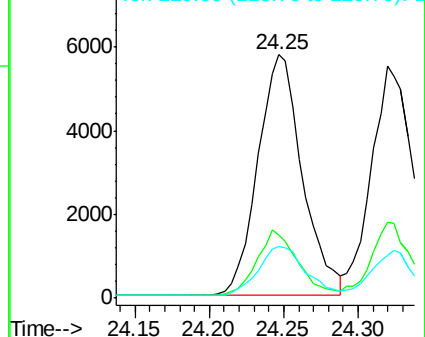
229 21.0 16.3 24.5

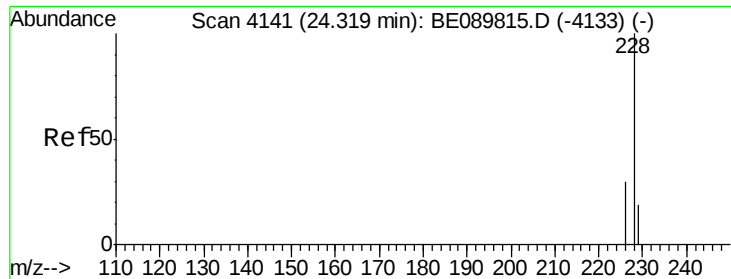


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.11 ng

RT: 24.32 min Scan# 4141

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

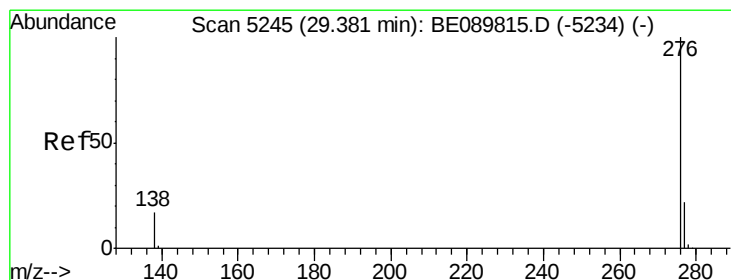
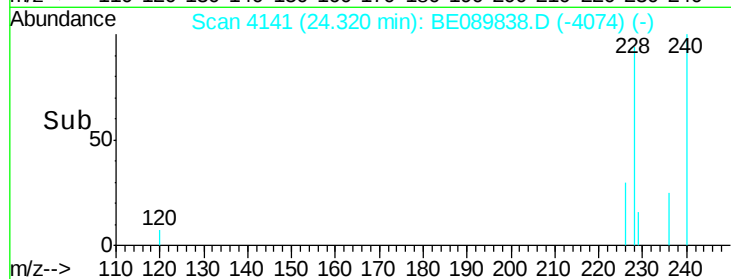
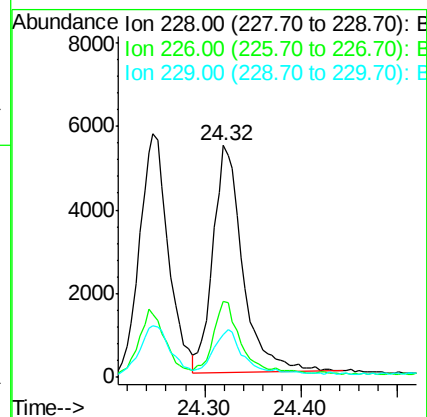
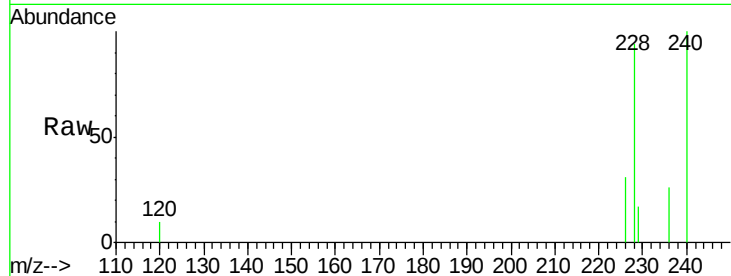
Tgt Ion:228 Resp: 11680

Ion Ratio Lower Upper

228 100

226 32.9 23.0 34.4

229 18.5 15.8 23.6



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.46 ng

RT: 29.38 min Scan# 5246

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

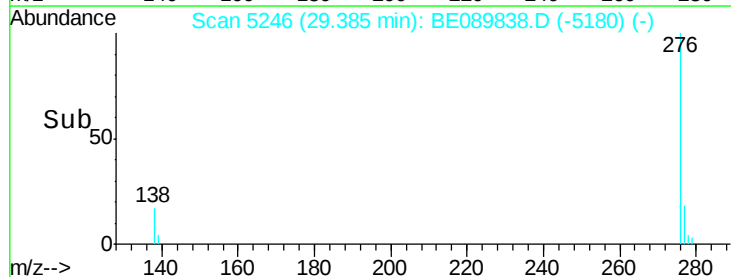
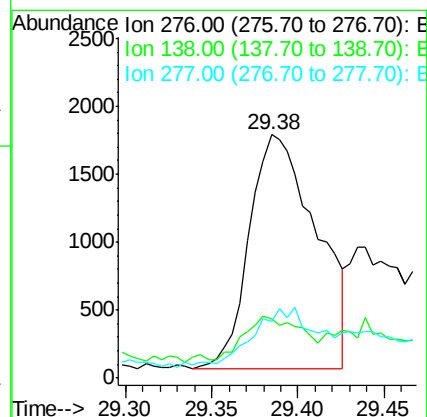
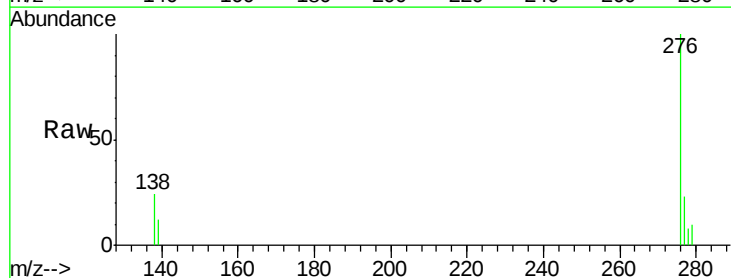
Tgt Ion:276 Resp: 4665

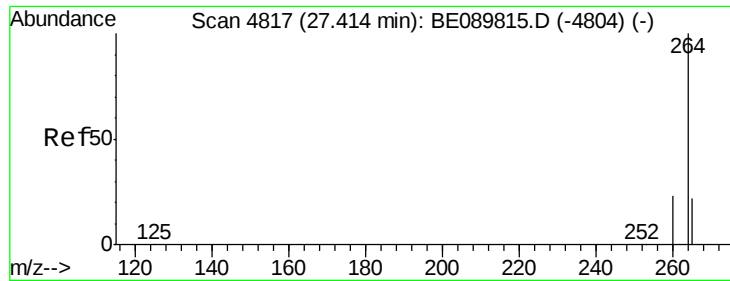
Ion Ratio Lower Upper

276 100

138 15.6 4.3 6.5#

277 24.1 9.0 13.4#



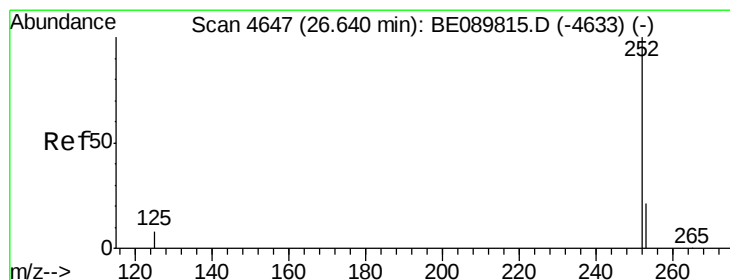
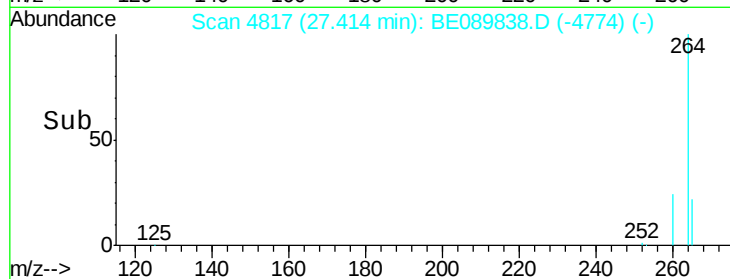
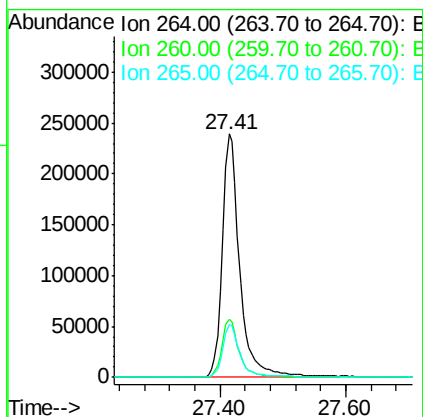
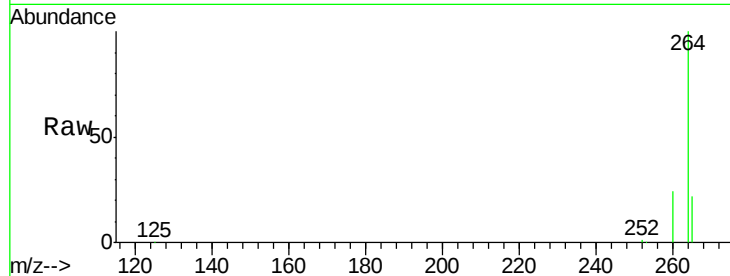


#25
Perylene-d12
Concen: 5.00 ng
RT: 27.41 min Scan# 4817
Delta R.T. 0.00 min
Lab File: BE089838.D
Acq: 25 Mar 2015 8:58

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion: 264 Resp: 459690

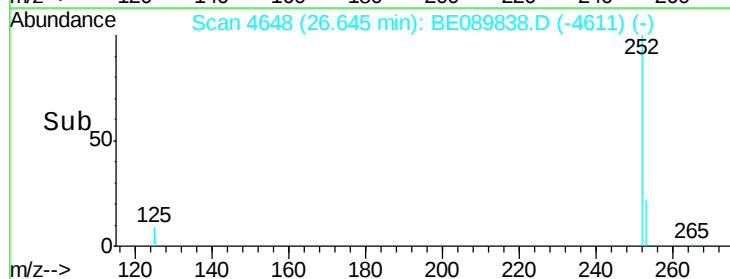
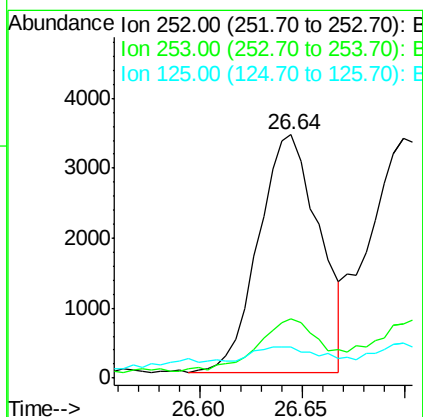
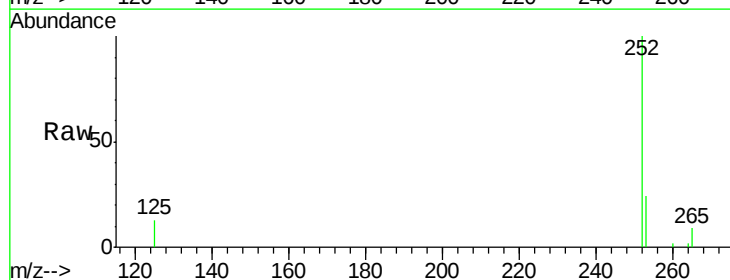
Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.2	27.2
265	21.7	17.3	25.9

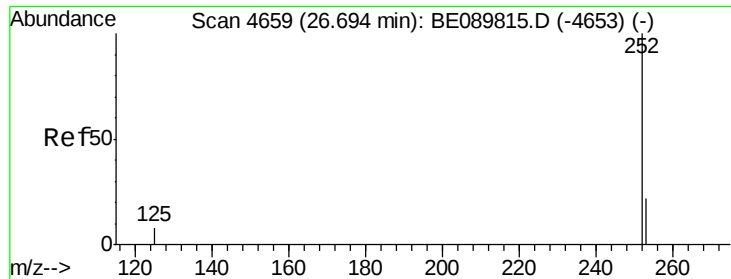


#26
Benzo(b)fluoranthene
Concen: 0.38 ng
RT: 26.64 min Scan# 4648
Delta R.T. 0.01 min
Lab File: BE089838.D
Acq: 25 Mar 2015 8:58

Tgt Ion: 252 Resp: 7013

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.6
125	12.6	8.7	13.1





#27

Benzo(k)fluoranthene

Concen: 0.10 ng

RT: 26.70 min Scan# 4660

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

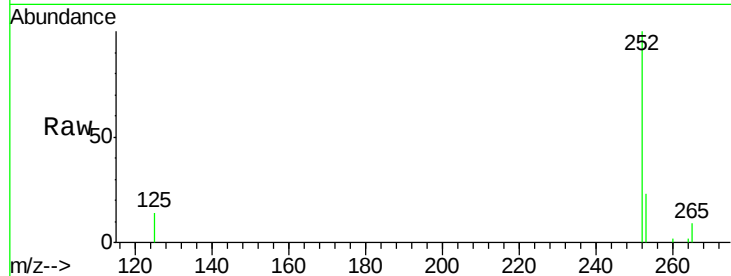
Tgt Ion:252 Resp: 9549

Ion Ratio Lower Upper

252 100

253 22.6 18.6 28.0

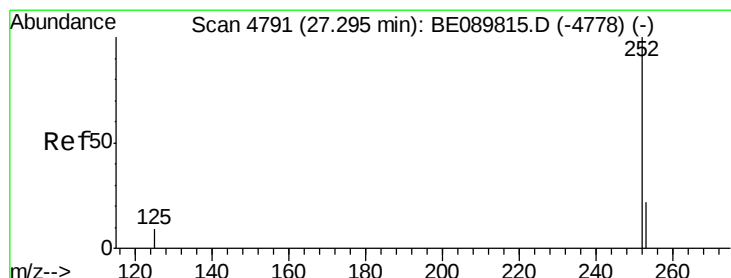
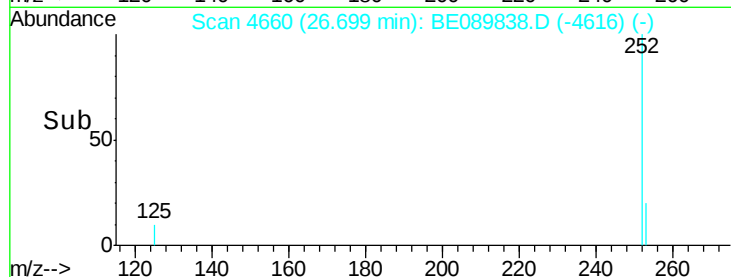
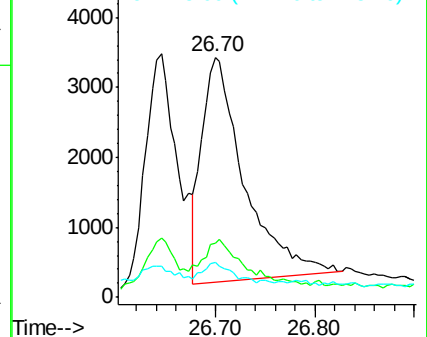
125 14.4 10.8 16.2



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

Benzo(a)pyrene

Concen: 0.37 ng

RT: 27.30 min Scan# 4792

Delta R.T. 0.00 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

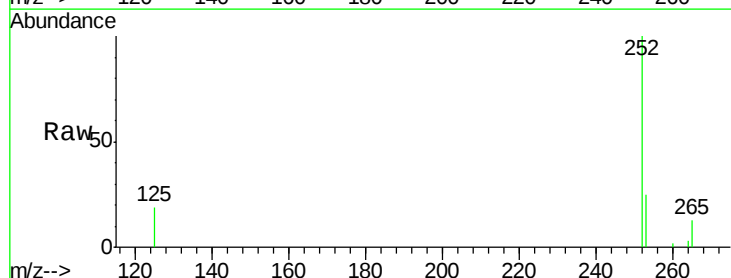
Tgt Ion:252 Resp: 7439

Ion Ratio Lower Upper

252 100

253 25.2 21.0 31.4

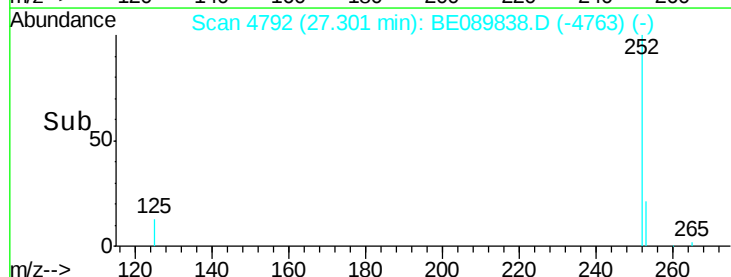
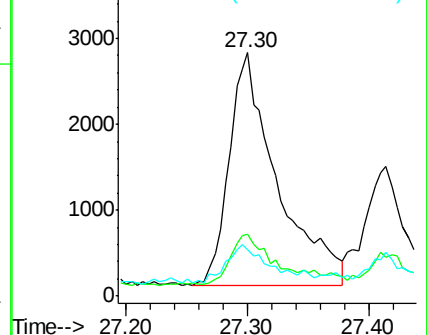
125 18.9 13.3 19.9

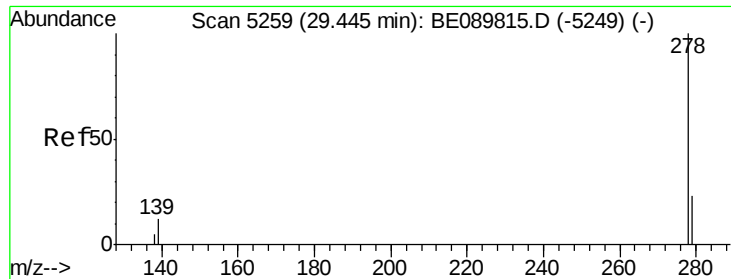


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.32 ng

RT: 29.45 min Scan# 5261

Delta R.T. 0.01 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

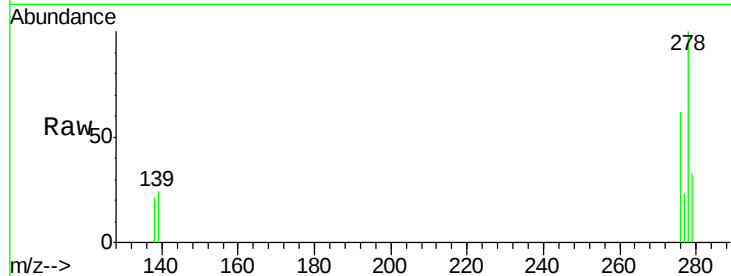
Tgt Ion: 278 Resp: 3926

Ion Ratio Lower Upper

278 100

139 23.6 20.0 30.0

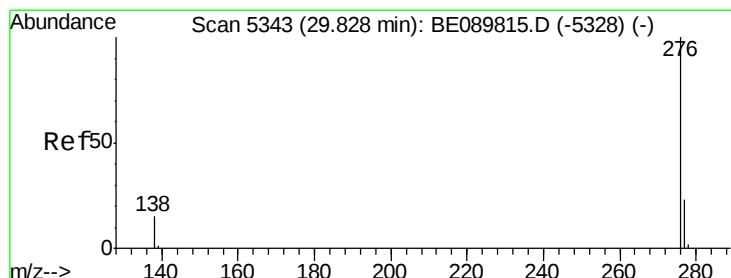
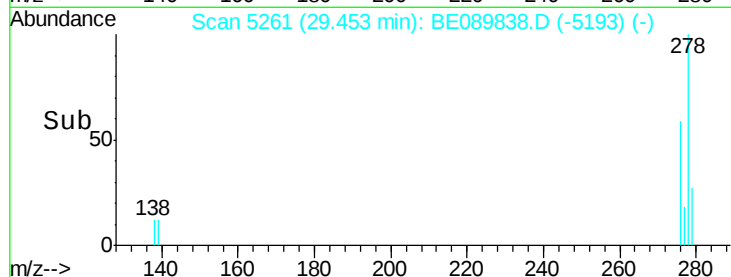
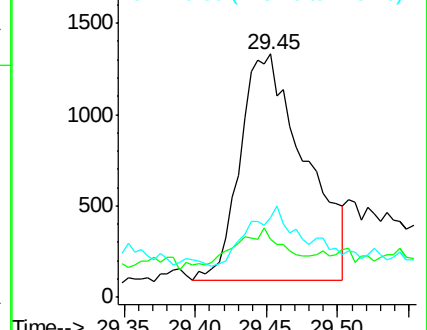
279 32.9 28.9 43.3



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



#30

Benzo(g,h,i)perylene

Concen: 0.34 ng

RT: 29.84 min Scan# 5345

Delta R.T. 0.01 min

Lab File: BE089838.D

Acq: 25 Mar 2015 8:58

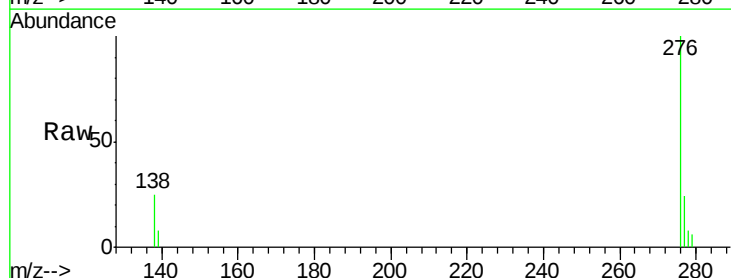
Tgt Ion: 276 Resp: 8493

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 25.0 22.9 34.3



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

