

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021715\
 Data File : BE089585.D
 Acq On : 17 Feb 2015 2:20
 Operator : TP/IZ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 17 10:54:25 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 17 10:44:47 2015
 Response via : Initial Calibration

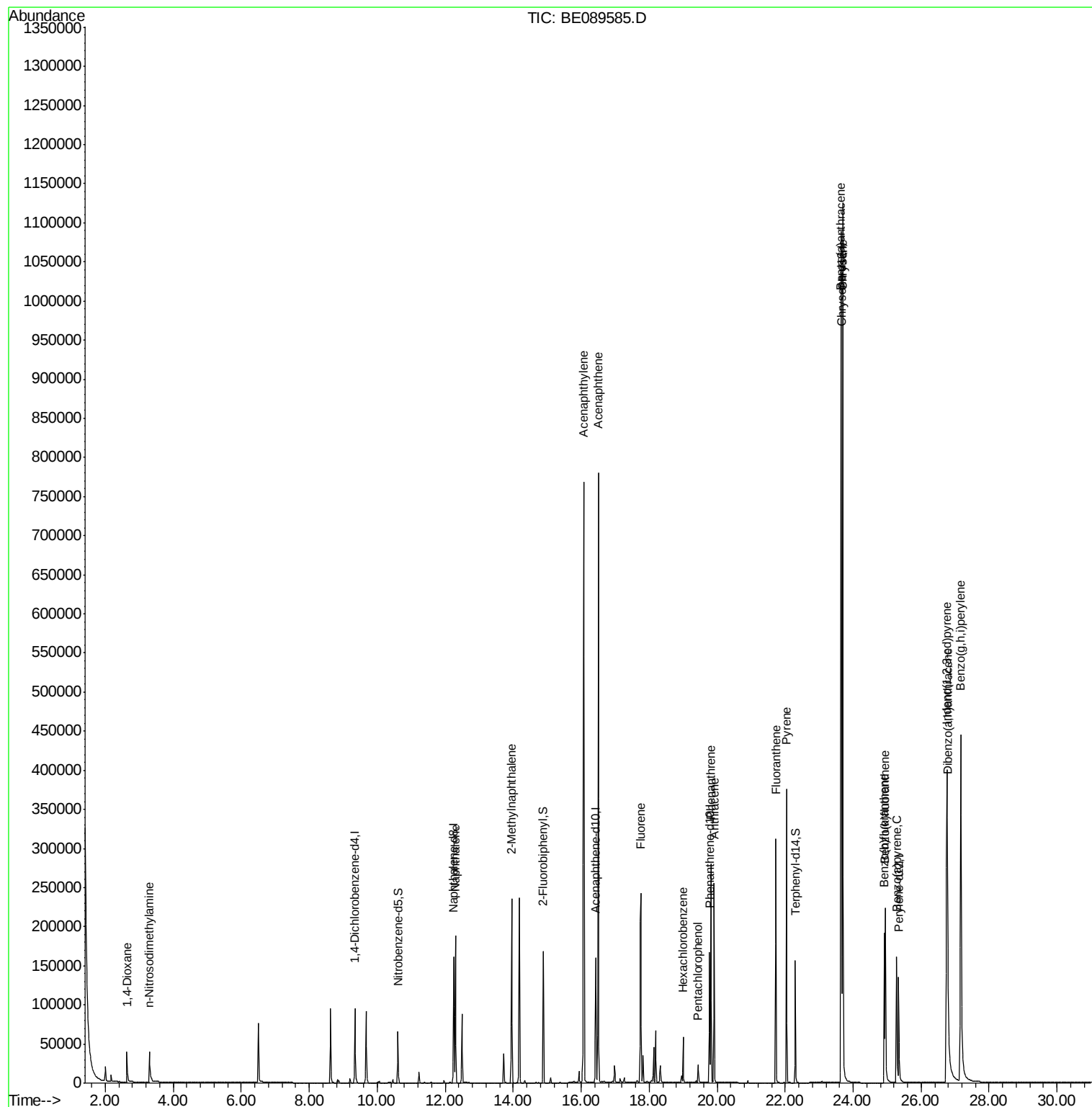
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	40810	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	176320	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	95452	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	165461	5.00	ng	0.00
19) Chrysene-d12	23.66	240	145689	5.00	ng	0.00
25) Perylene-d12	25.34	264	122309	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	46259	5.78	ng	0.00
9) 2-Fluorobiphenyl	14.89	172	146231	4.81	ng	0.00
21) Terphenyl-d14	22.30	244	131923	4.84	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.64	88	26816	4.86	ng	97
3) n-Nitrosodimethylamine	3.28	42	29775	5.39	ng	# 97
6) Naphthalene	12.30	128	208203	4.70	ng	100
7) 2-Methylnaphthalene	13.95	142	147166	5.16	ng	99
10) Acenaphthylene	16.07	152	967801	5.30	ng	100
11) Acenaphthene	16.50	154	145279	4.88	ng	98
12) Fluorene	17.75	166	170717	5.11	ng	100
14) Hexachlorobenzene	19.00	284	43315	4.67	ng	100
15) Pentachlorophenol	19.44	266	16146	5.89	ng	98
16) Phenanthrene	19.82	178	237404	4.78	ng	100
17) Anthracene	19.91	178	222695	5.46	ng	99
18) Fluoranthene	21.72	202	221737	5.33	ng	99
20) Pyrene	22.04	202	238653	5.15	ng	99
22) Benzo(a)anthracene	23.64	228	806975	5.36	ng	99
23) Chrysene	23.69	228	821809	4.64	ng	99
24) Indeno(1,2,3-cd)pyrene	26.75	276	833198	6.41	ng	100
26) Benzo(b)fluoranthene	24.92	252	163428	6.60	ng	98
27) Benzo(k)fluoranthene	24.94	252	218033	5.38	ng	99
28) Benzo(a)pyrene	25.28	252	156619	6.53	ng	100
29) Dibenzo(a,h)anthracene	26.78	278	166469	6.79	ng	99
30) Benzo(g,h,i)perylene	27.17	276	706390	5.90	ng	99

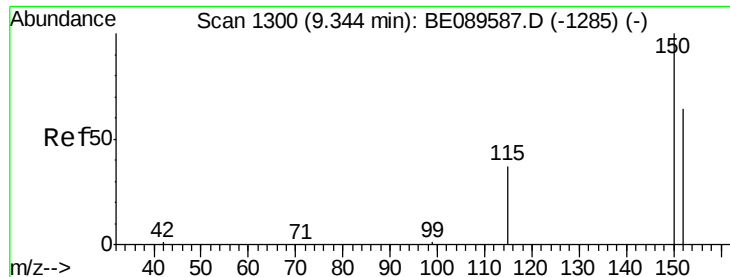
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

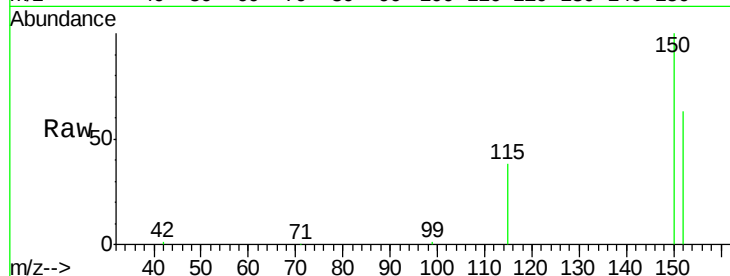
Tot Ion:152 Resp: 40810

Ion Ratio Lower Upper

152 100

150 159.8 125.3 187.9

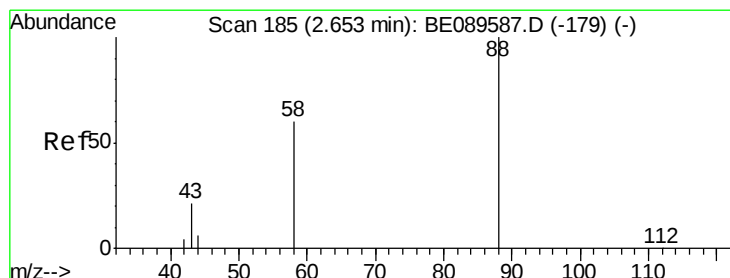
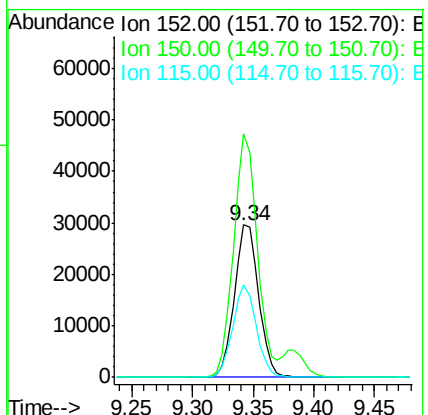
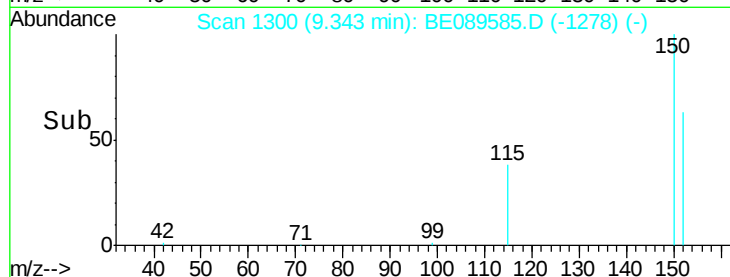
115 60.8 47.0 70.4



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: 4.86 ng

RT: 2.64 min Scan# 183

Delta R.T. -0.02 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

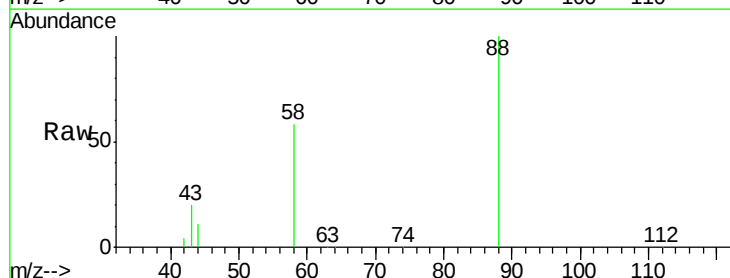
Tgt Ion: 88 Resp: 26816

Ion Ratio Lower Upper

88 100

58 68.9 53.0 79.4

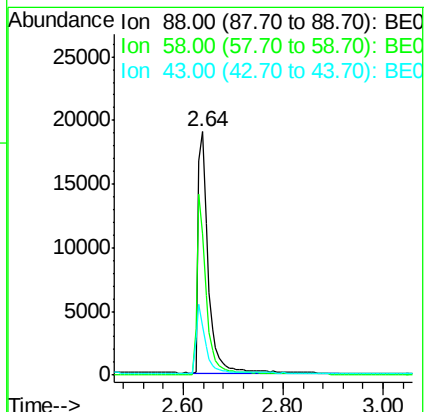
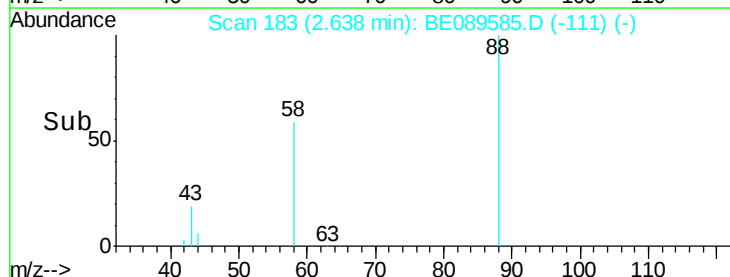
43 26.1 19.9 29.9

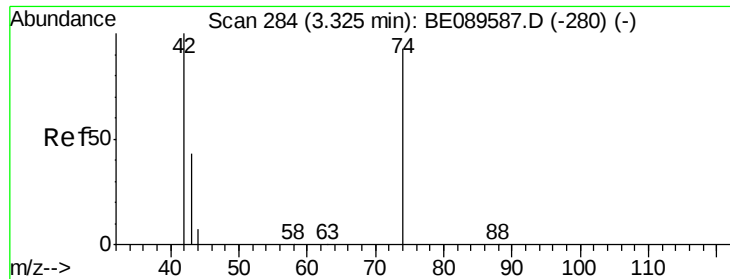


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



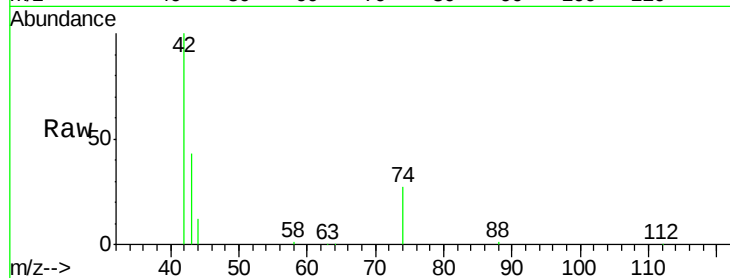


#3

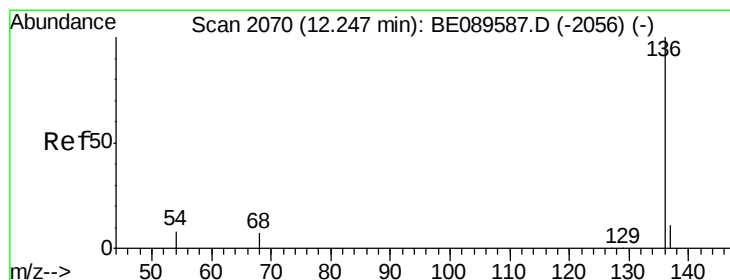
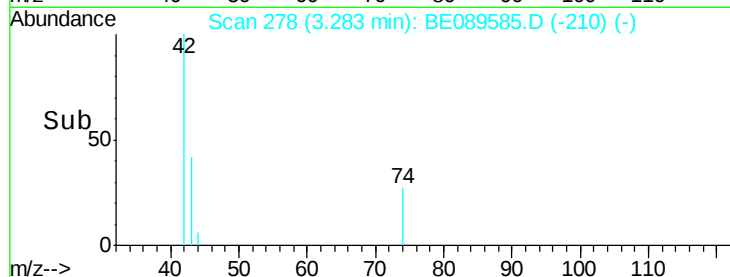
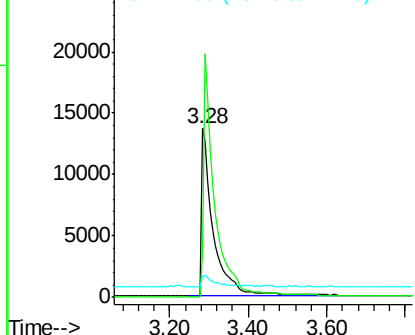
n-Nitrosodimethylamine
 Concen: 5.39 ng
 RT: 3.28 min Scan# 278
 Delta R.T. -0.04 min
 Lab File: BE089585.D
 Acq: 17 Feb 2015 2:20

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 29775
 Ion Ratio Lower Upper
 42 100
 74 138.8 114.2 171.4
 44 6.7 3.6 5.4#



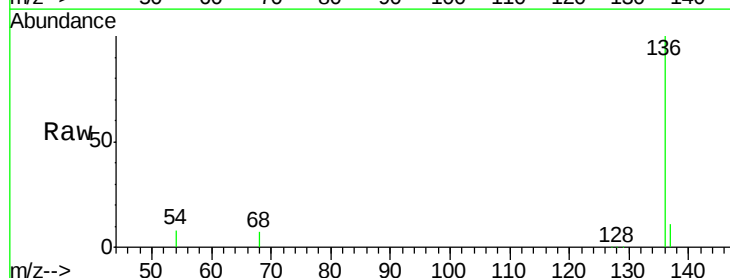
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



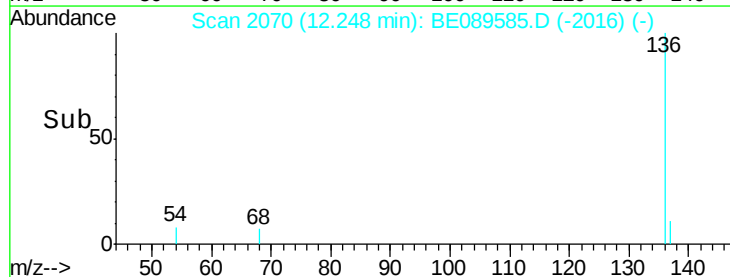
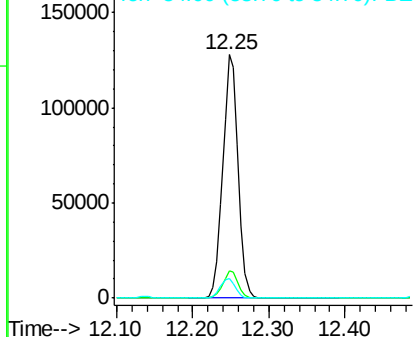
#4

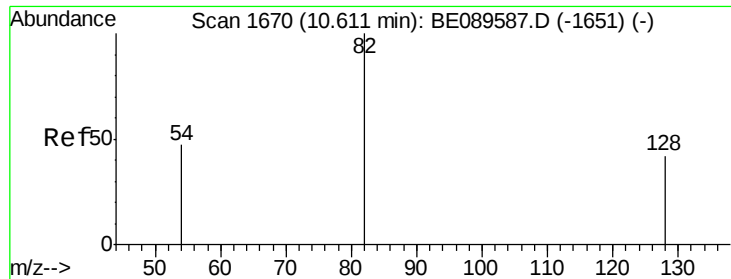
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: BE089585.D
 Acq: 17 Feb 2015 2:20

Tgt Ion: 136 Resp: 176320
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.7 13.1
 54 8.0 6.2 9.2



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: 5.78 ng

RT: 10.61 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

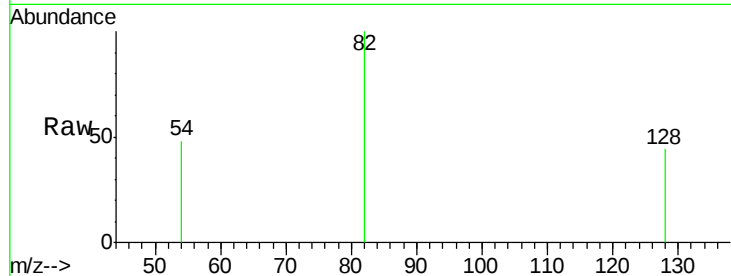
Tot Ion: 82 Resp: 46259

Ion Ratio Lower Upper

82 100

128 44.2 34.2 51.2

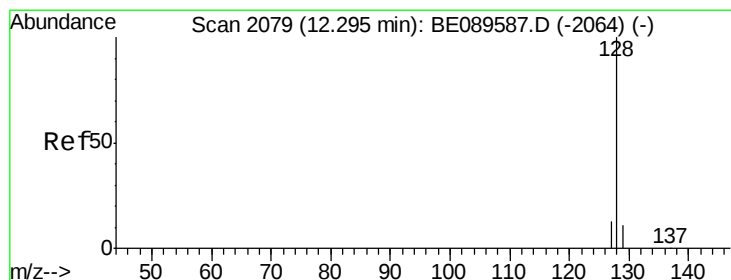
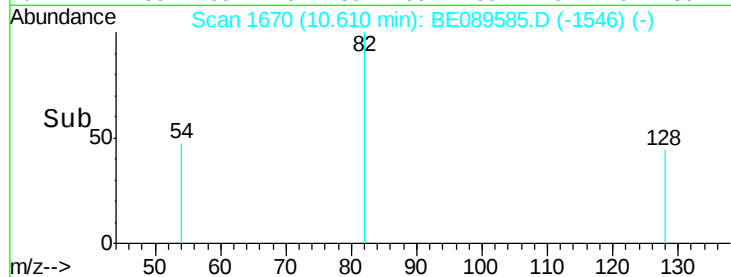
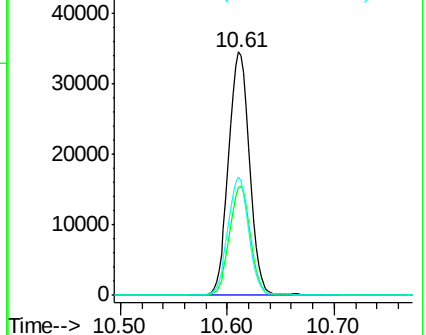
54 48.3 38.4 57.6



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



#6

Naphthalene

Concen: 4.70 ng

RT: 12.30 min Scan# 2079

Delta R.T. 0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

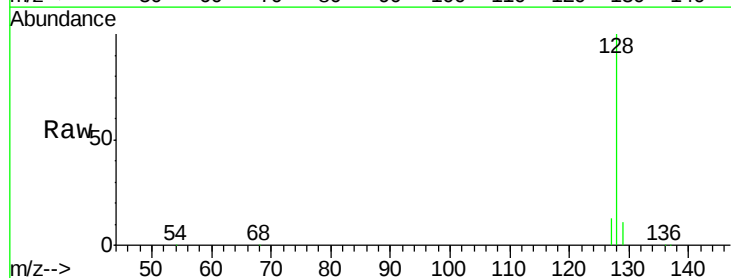
Tgt Ion: 128 Resp: 208203

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

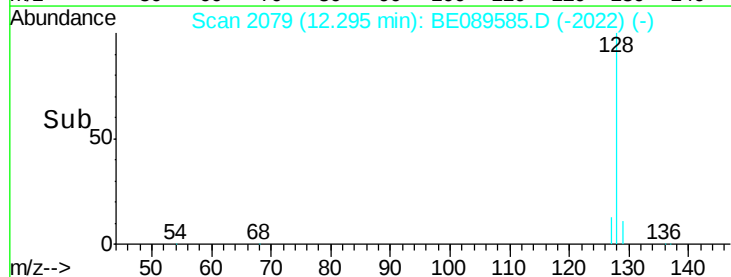
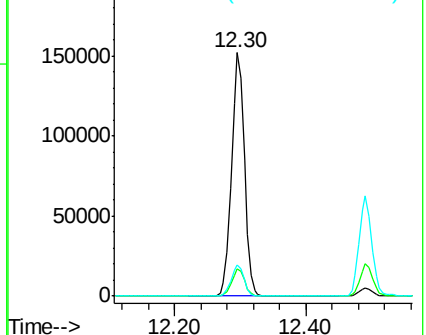
127 12.8 10.2 15.4

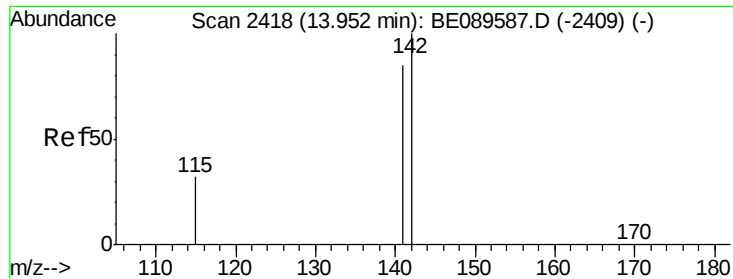


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 5.16 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

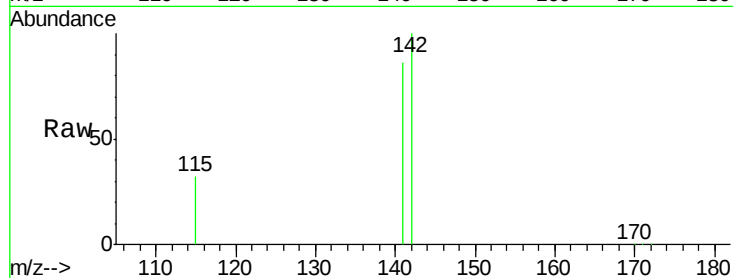
Tot Ion:142 Resp: 147166

Ion Ratio Lower Upper

142 100

141 85.7 68.1 102.1

115 32.1 25.8 38.8

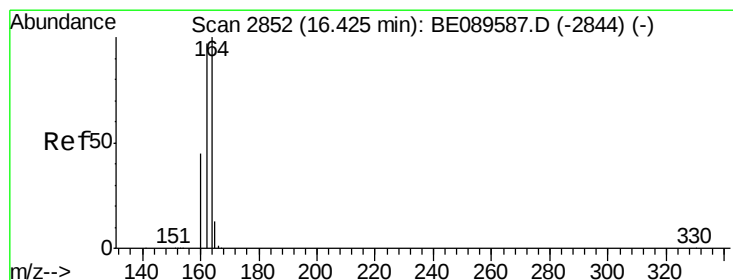
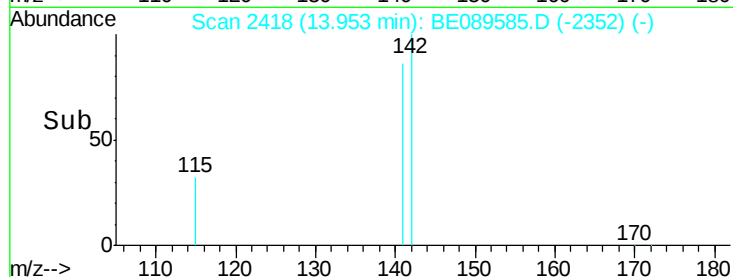
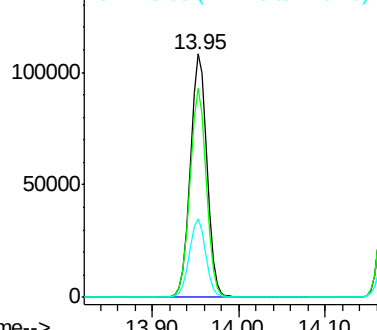


Abundance

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: 16.42 min Scan# 2852

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

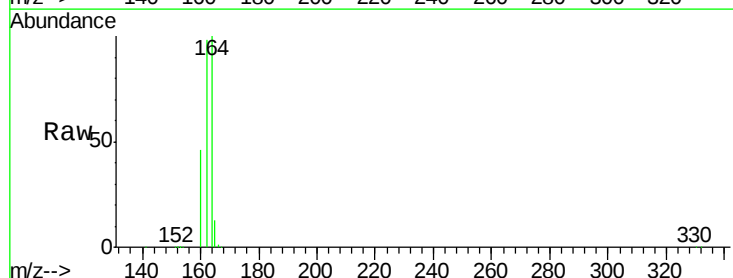
Tgt Ion:164 Resp: 95452

Ion Ratio Lower Upper

164 100

162 98.0 77.8 116.8

160 46.2 35.8 53.6

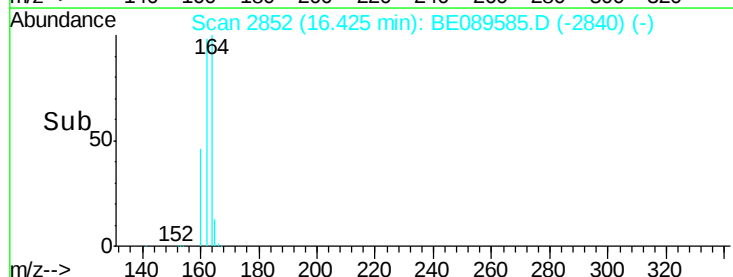
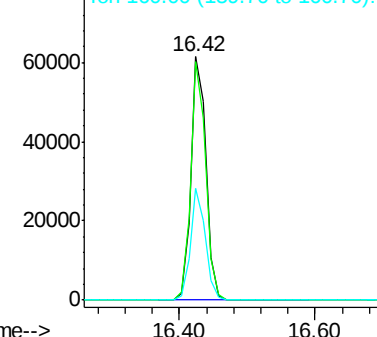


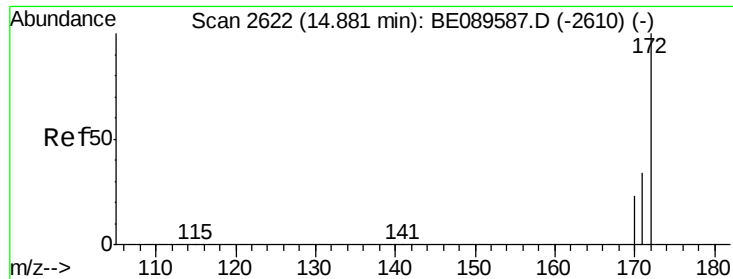
Abundance

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: 4.81 ng

RT: 14.89 min Scan# 2623

Delta R.T. 0.01 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampled :

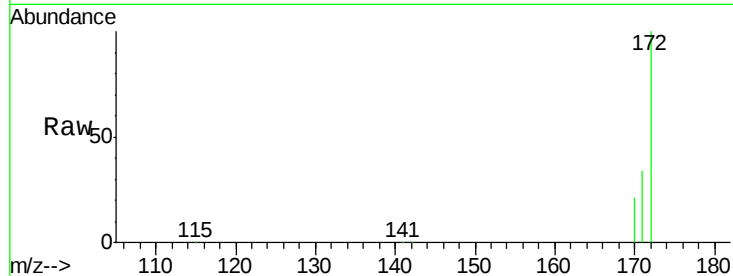
Tot Ion:172 Resp: 146231

Ion Ratio Lower Upper

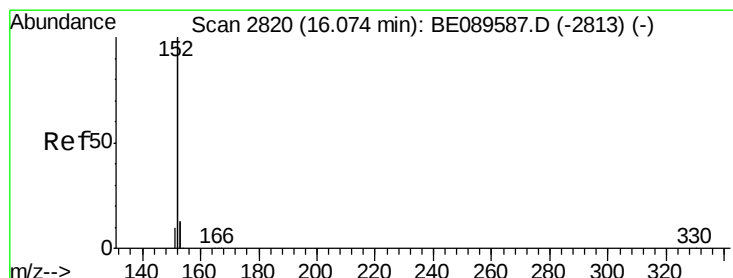
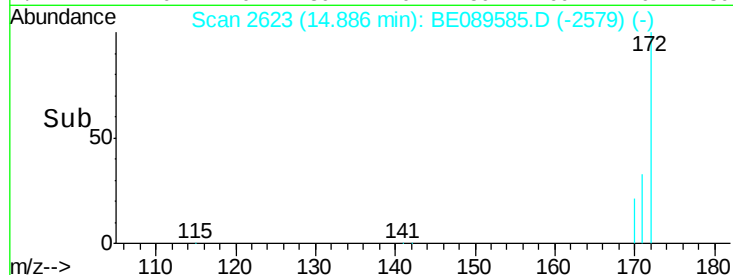
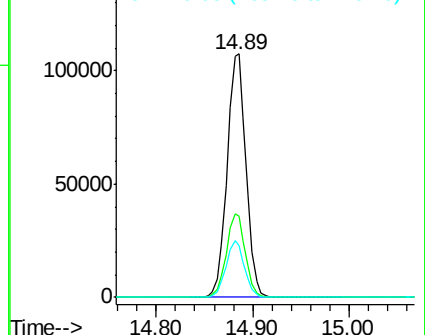
172 100

171 33.5 27.4 41.0

170 21.4 18.6 27.8



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: 5.30 ng

RT: 16.07 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

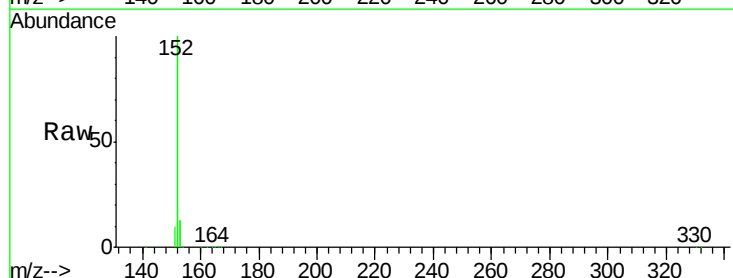
Tgt Ion:152 Resp: 967801

Ion Ratio Lower Upper

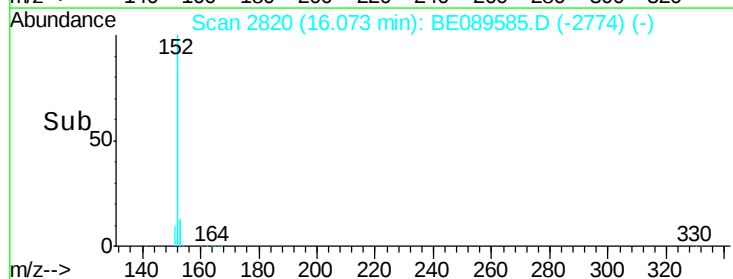
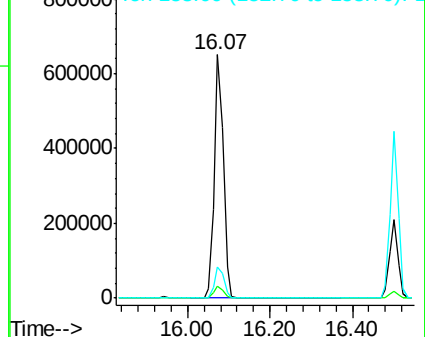
152 100

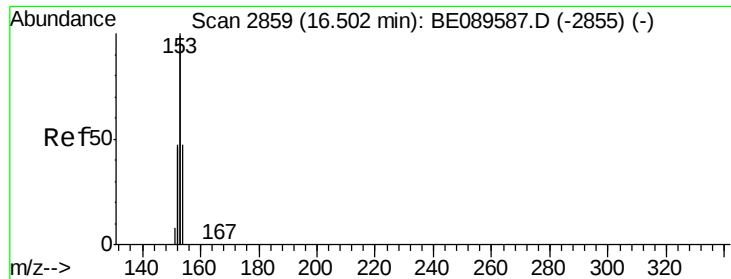
151 4.9 3.8 5.8

153 13.2 10.4 15.6



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: 4.88 ng

RT: 16.50 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

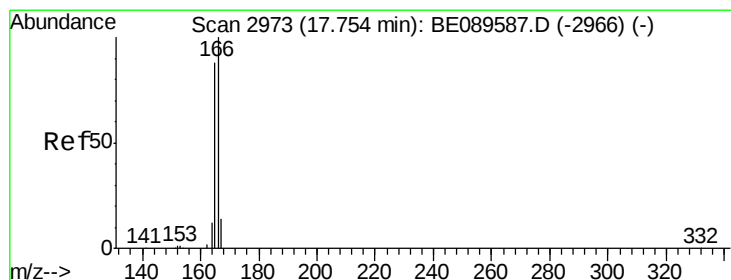
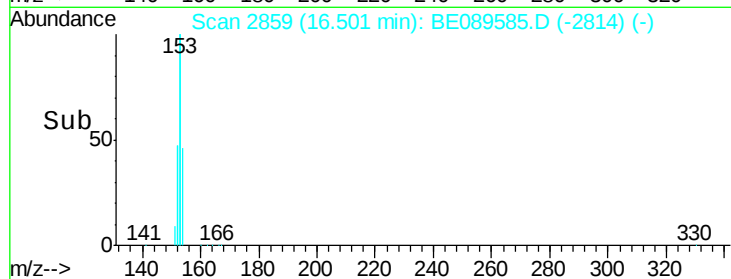
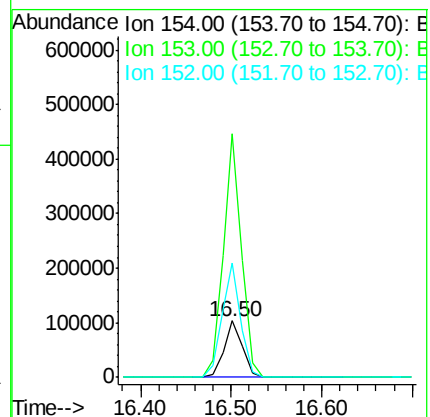
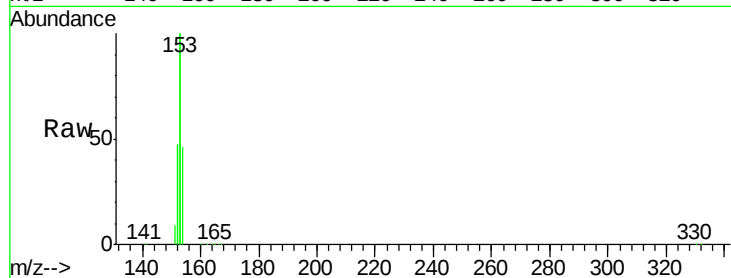
Tot Ion:154 Resp: 145279

Ion Ratio Lower Upper

154 100

153 429.5 346.6 519.8

152 206.2 169.0 253.6



#12

Fluorene

Concen: 5.11 ng

RT: 17.75 min Scan# 2973

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

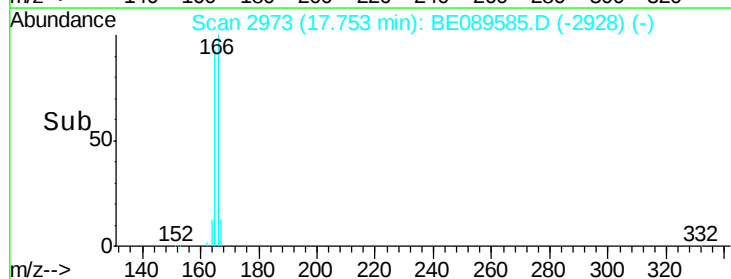
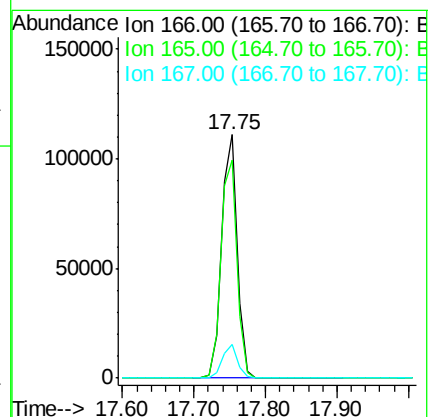
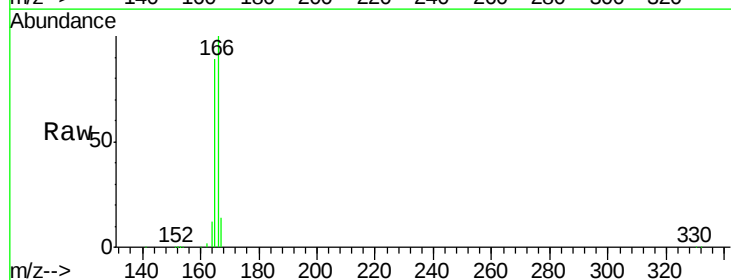
Tgt Ion:166 Resp: 170717

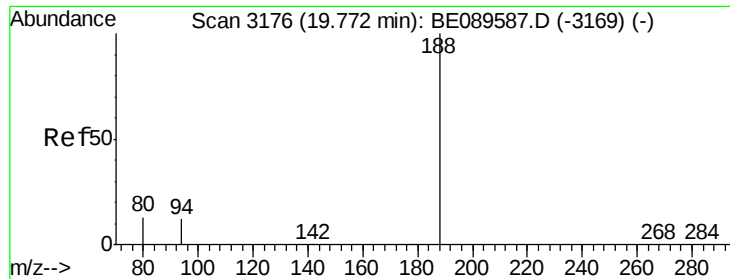
Ion Ratio Lower Upper

166 100

165 92.6 73.8 110.6

167 13.3 10.6 15.8

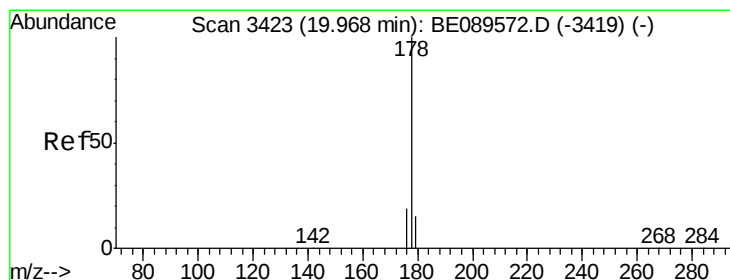
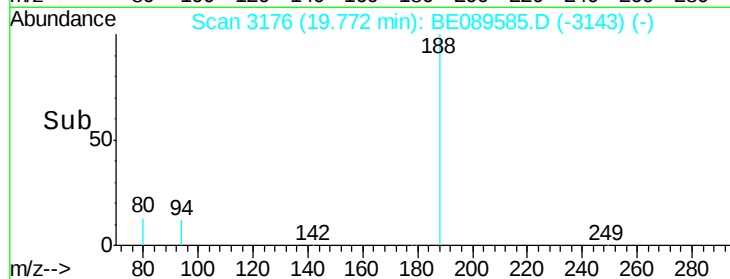
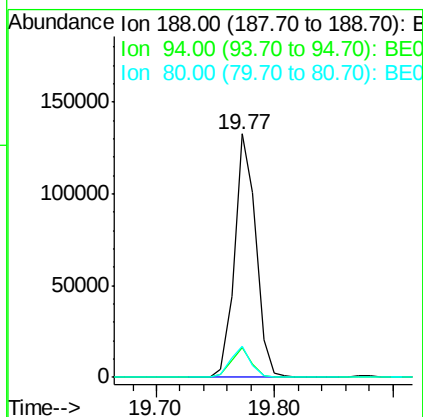
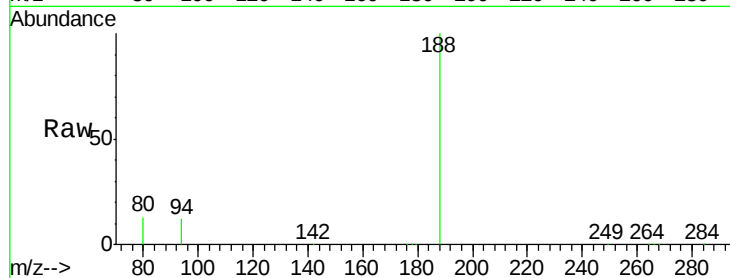




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089585.D
Acq: 17 Feb 2015 2:20

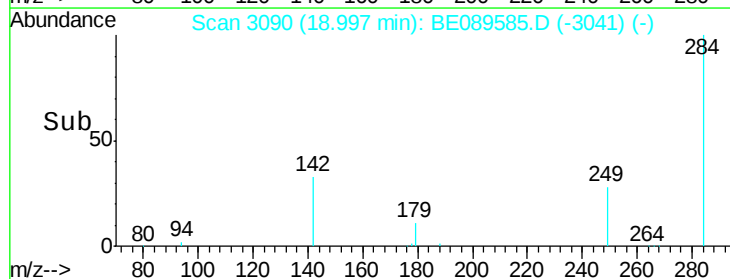
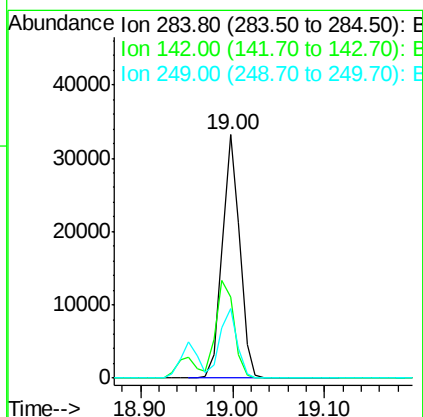
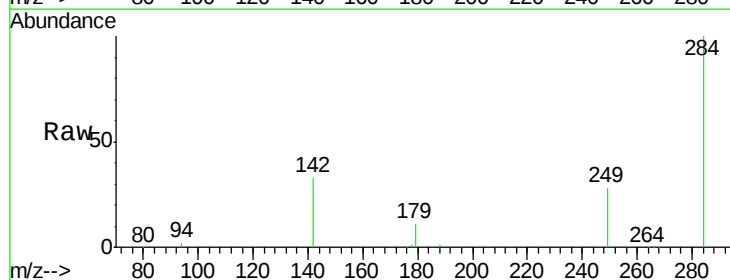
Instrument :
BNA_E
ClientSampleId :

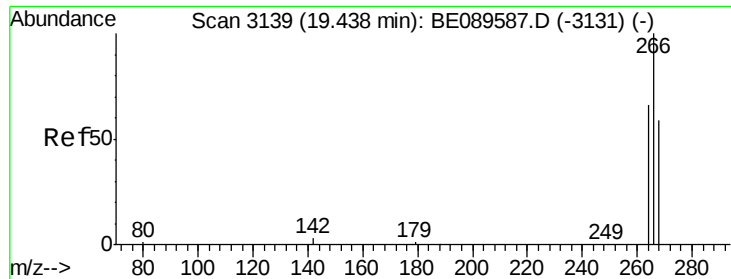
Tot Ion:188 Resp: 165461
Ion Ratio Lower Upper
188 100
94 12.3 9.8 14.8
80 12.7 10.2 15.4



#14
Hexachlorobenzene
Concen: 4.67 ng
RT: 19.00 min Scan# 3090
Delta R.T. 0.00 min
Lab File: BE089585.D
Acq: 17 Feb 2015 2:20

Tgt Ion:284 Resp: 43315
Ion Ratio Lower Upper
284 100
142 41.1 33.1 49.7
249 28.4 22.8 34.2

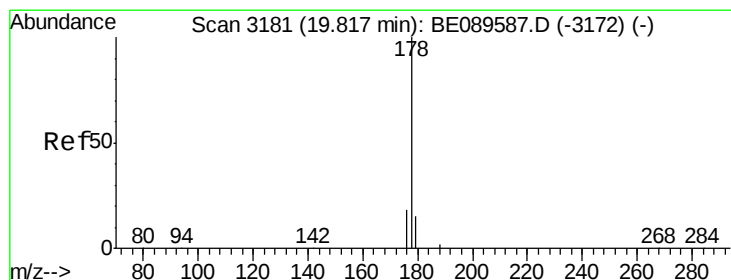
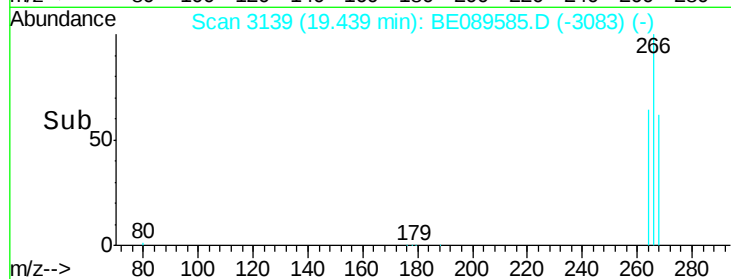
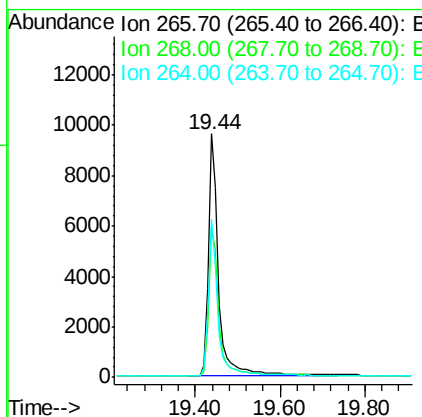
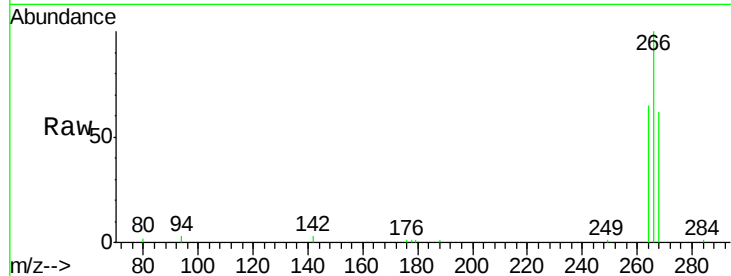




#15
 Pentachlorophenol
 Concen: 5.89 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. 0.00 min
 Lab File: BE089585.D
 Acq: 17 Feb 2015 2:20

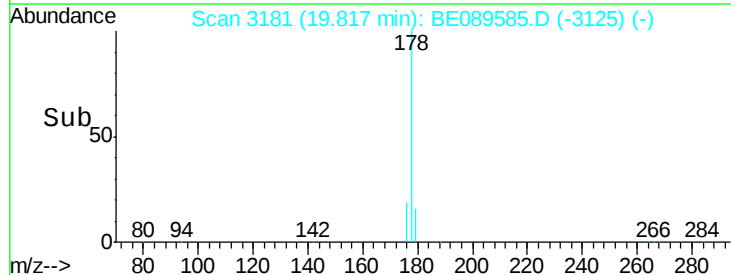
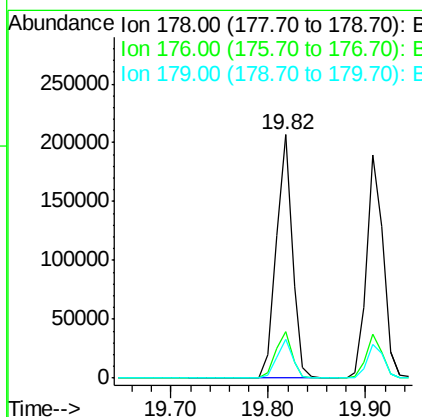
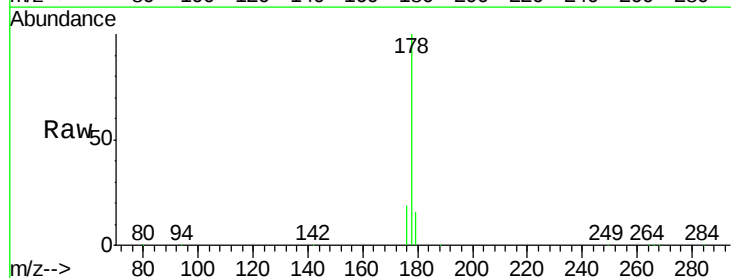
Instrument :
 BNA_E
 ClientSampleId :

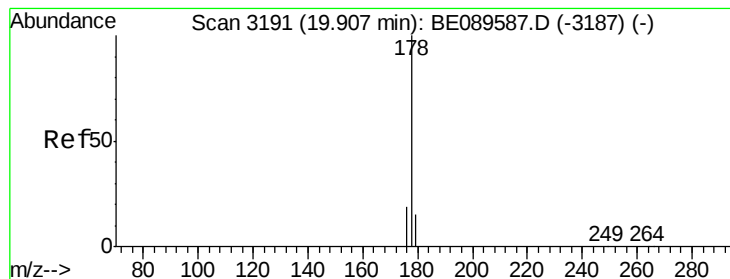
Tot Ion:266 Resp: 16146
 Ion Ratio Lower Upper
 266 100
 268 61.9 48.8 73.2
 264 64.6 53.9 80.9



#16
 Phenanthrene
 Concen: 4.78 ng
 RT: 19.82 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: BE089585.D
 Acq: 17 Feb 2015 2:20

Tgt Ion:178 Resp: 237404
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.2 22.8
 179 15.5 12.4 18.6





#17

Anthracene

Concen: 5.46 ng

RT: 19.91 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

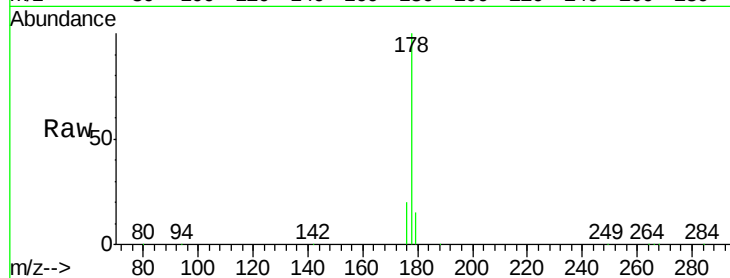
Tot Ion:178 Resp: 222695

Ion Ratio Lower Upper

178 100

176 18.8 14.7 22.1

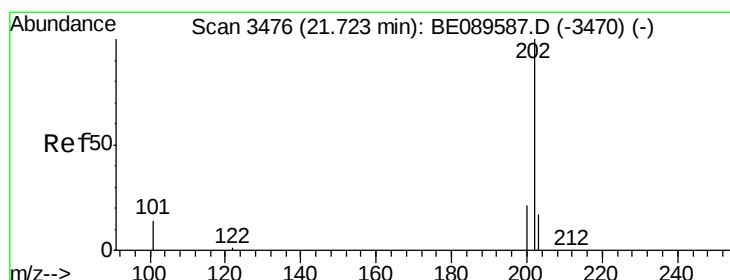
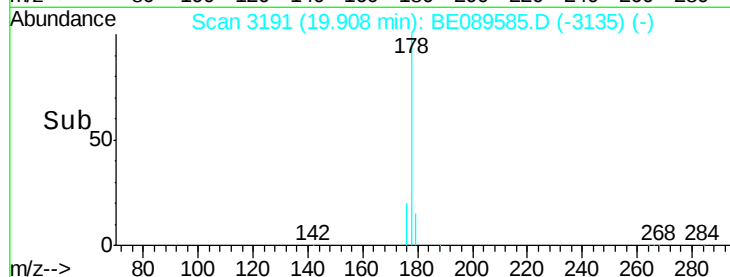
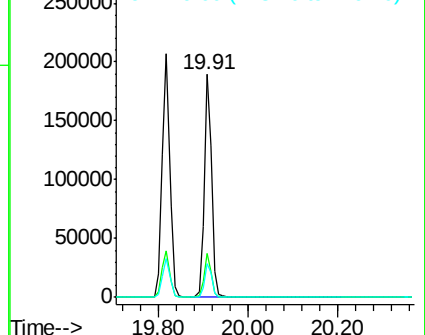
179 15.4 12.2 18.2



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: 5.33 ng

RT: 21.72 min Scan# 3476

Delta R.T. 0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

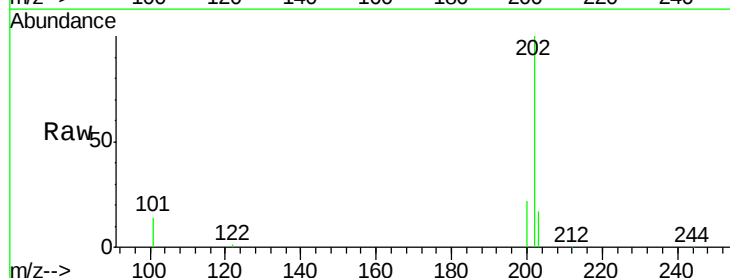
Tgt Ion:202 Resp: 221737

Ion Ratio Lower Upper

202 100

101 13.1 10.3 15.5

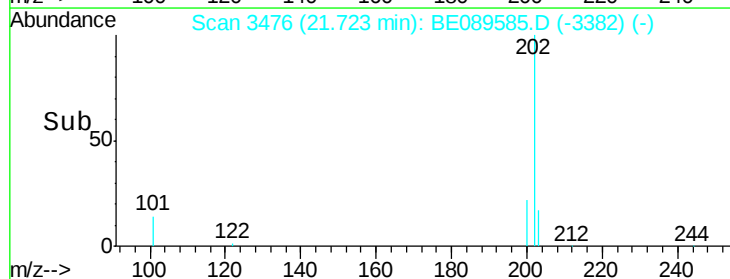
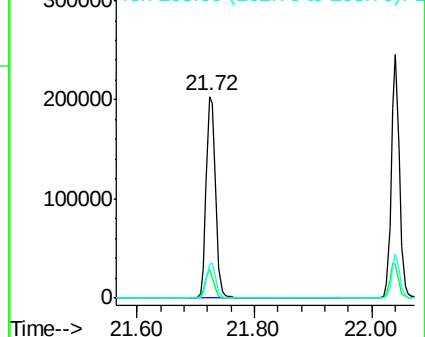
203 17.5 13.8 20.6

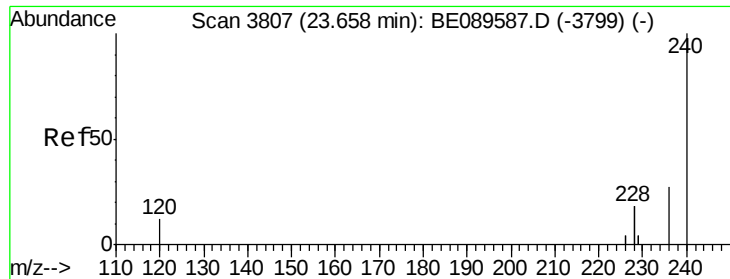


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

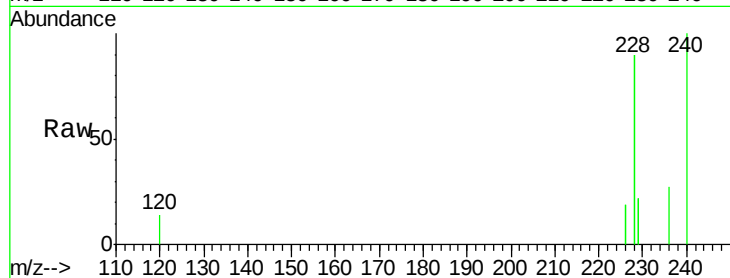
Tot Ion:240 Resp: 145689

Ion Ratio Lower Upper

240 100

120 14.2 9.9 14.9

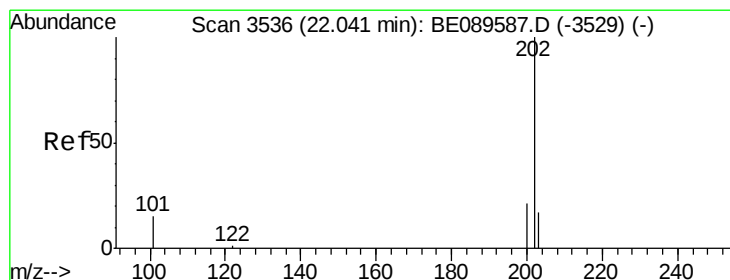
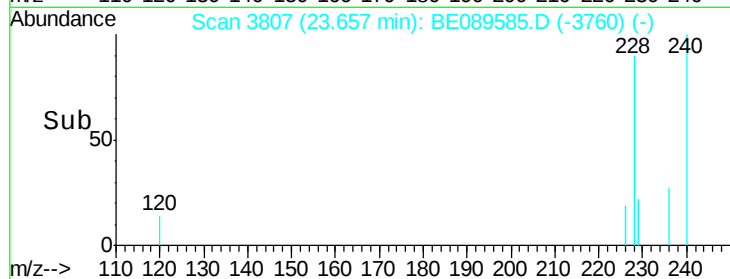
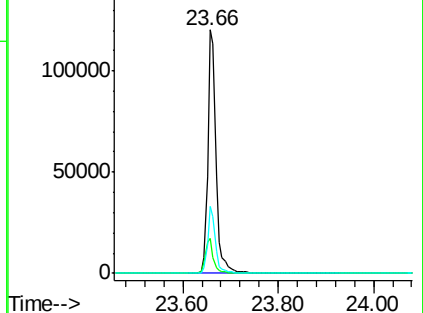
236 27.3 21.5 32.3



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: 5.15 ng

RT: 22.04 min Scan# 3536

Delta R.T. 0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

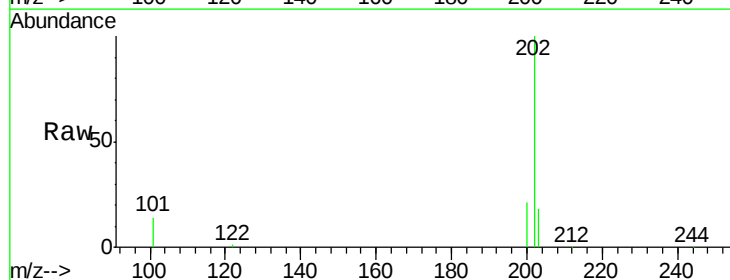
Tgt Ion:202 Resp: 238653

Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

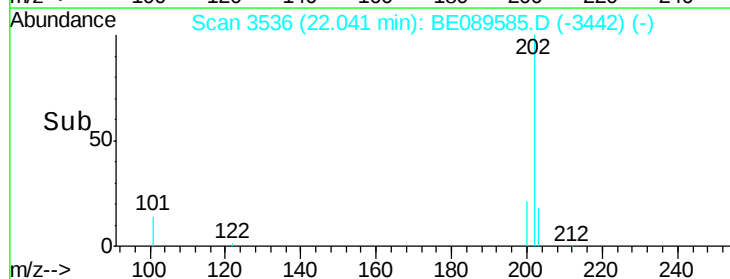
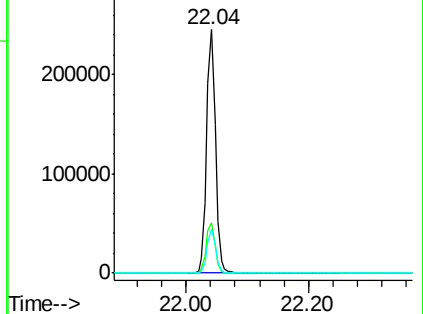
203 17.7 13.8 20.8

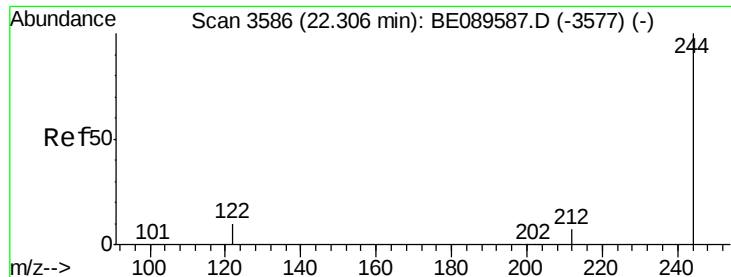


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 4.84 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

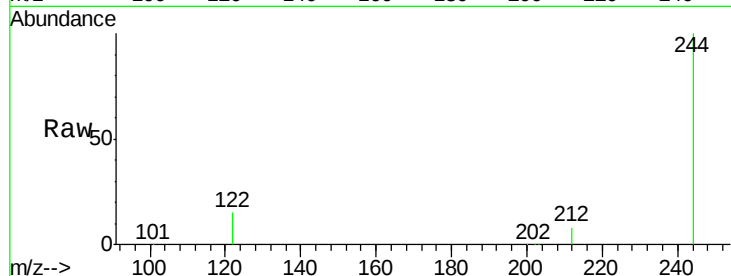
Tot Ion:244 Resp: 131923

Ion Ratio Lower Upper

244 100

212 7.5 5.5 8.3

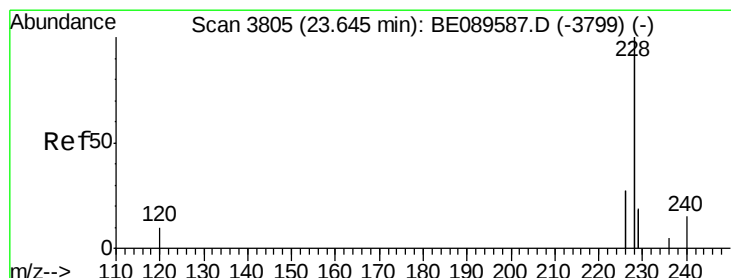
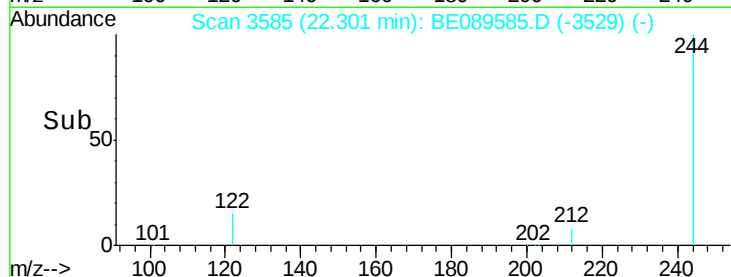
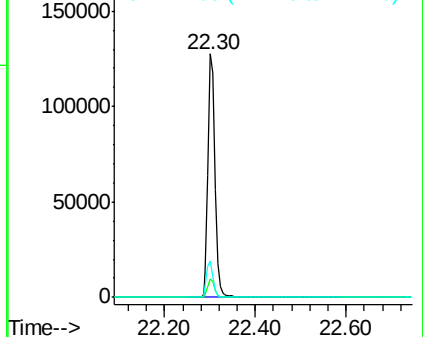
122 14.7 8.6 12.8#



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: 5.36 ng

RT: 23.64 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

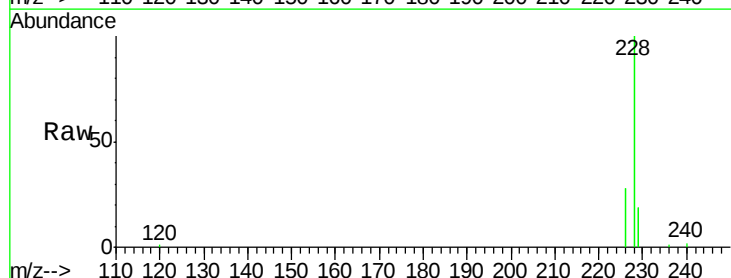
Tgt Ion:228 Resp: 806975

Ion Ratio Lower Upper

228 100

226 27.8 21.5 32.3

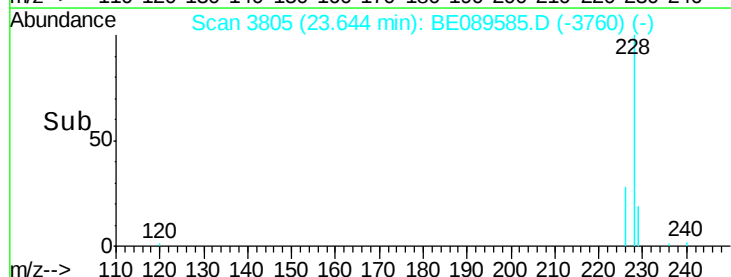
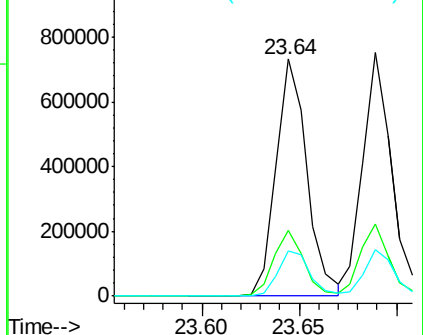
229 19.0 15.0 22.4

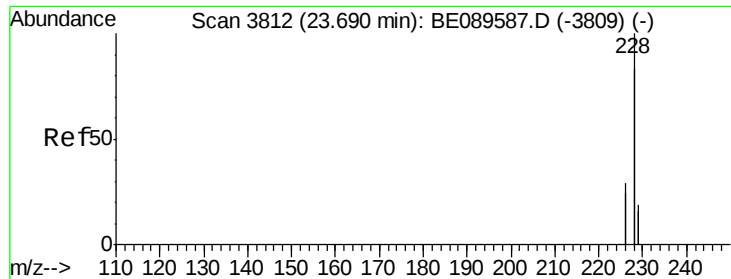


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 4.64 ng

RT: 23.69 min Scan# 3812

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

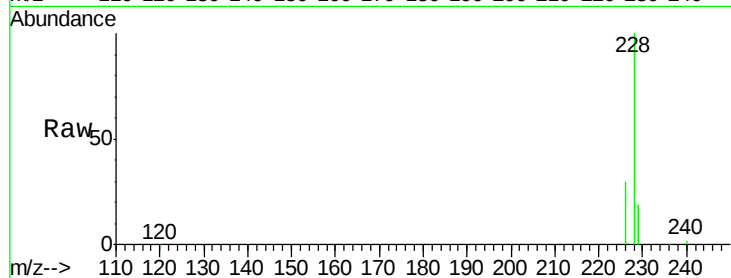
Tot Ion:228 Resp: 821809

Ion Ratio Lower Upper

228 100

226 29.6 23.3 34.9

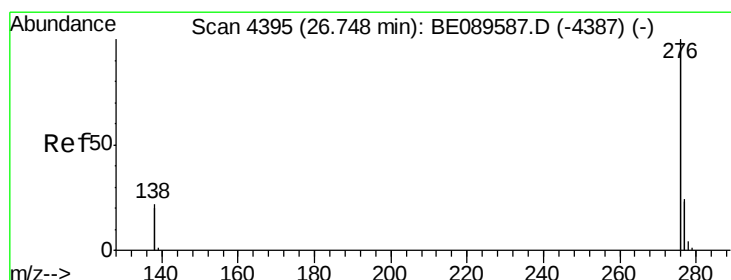
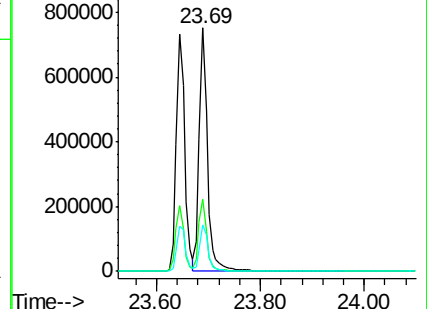
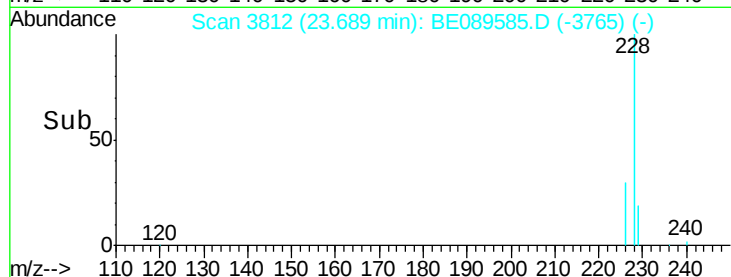
229 19.1 15.4 23.2



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 6.41 ng

RT: 26.75 min Scan# 4396

Delta R.T. 0.01 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

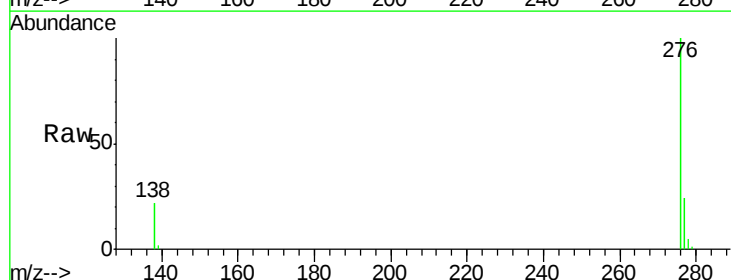
Tgt Ion:276 Resp: 833198

Ion Ratio Lower Upper

276 100

138 26.7 21.0 31.6

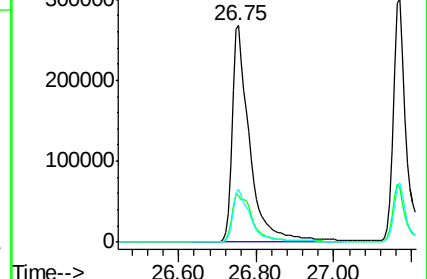
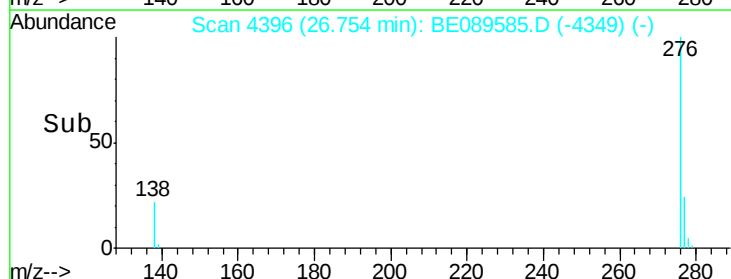
277 25.0 20.0 30.0

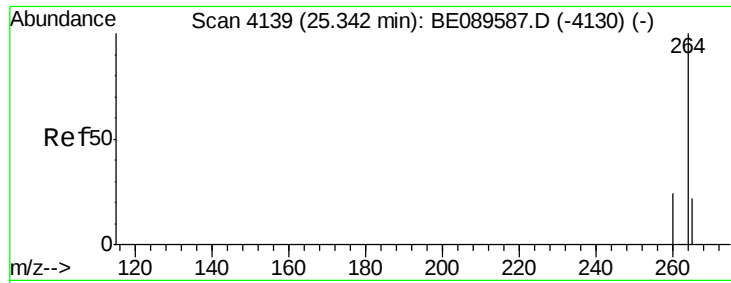


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

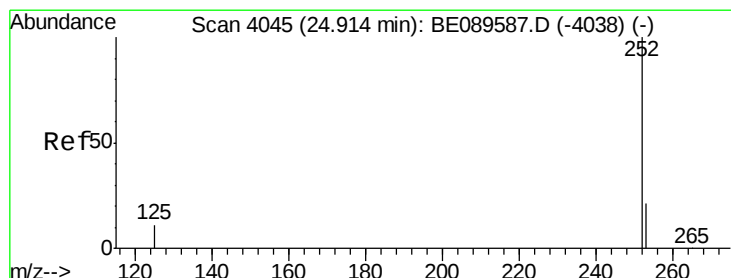
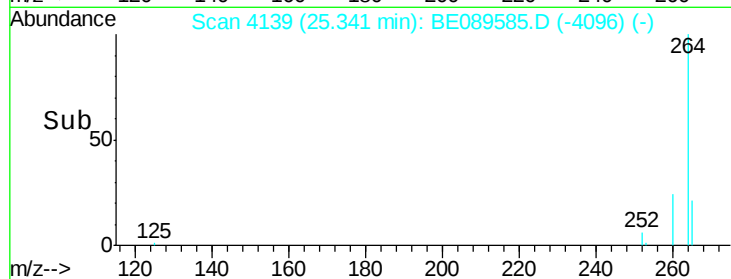
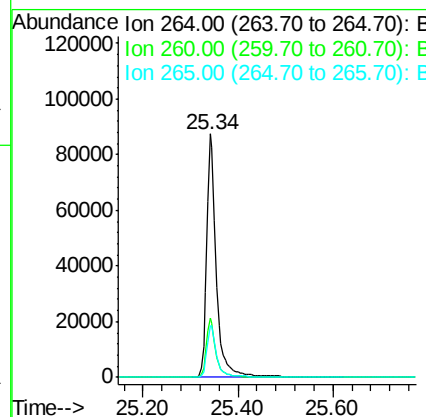
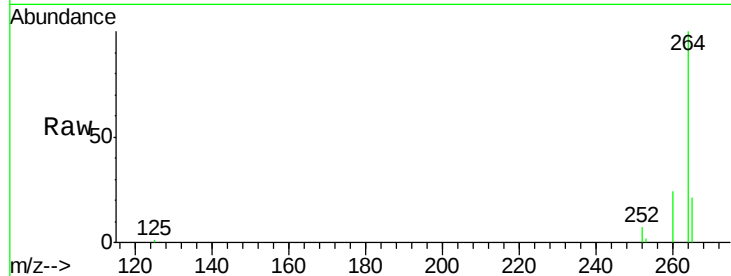




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4139
Delta R.T. -0.00 min
Lab File: BE089585.D
Acq: 17 Feb 2015 2:20

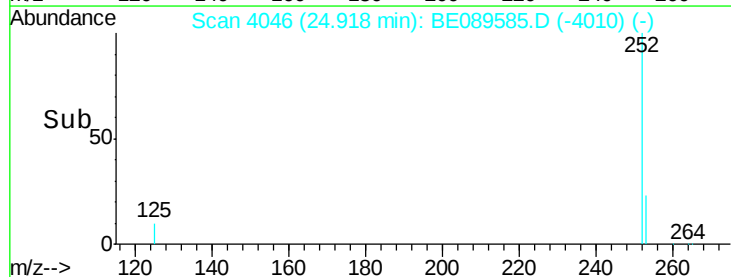
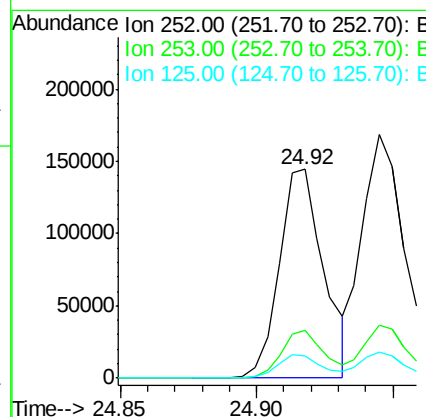
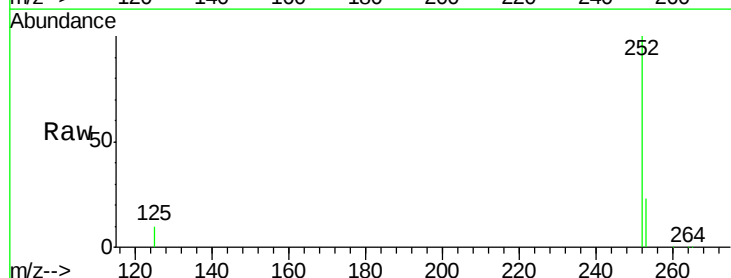
Instrument :
BNA_E
ClientSampleId :

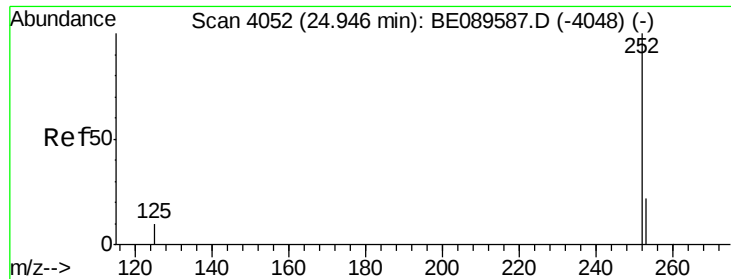
Tot Ion:264 Resp: 122309
Ion Ratio Lower Upper
264 100
260 24.5 19.4 29.0
265 21.4 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 6.60 ng
RT: 24.92 min Scan# 4046
Delta R.T. 0.00 min
Lab File: BE089585.D
Acq: 17 Feb 2015 2:20

Tgt Ion:252 Resp: 163428
Ion Ratio Lower Upper
252 100
253 22.6 17.3 25.9
125 10.4 8.9 13.3

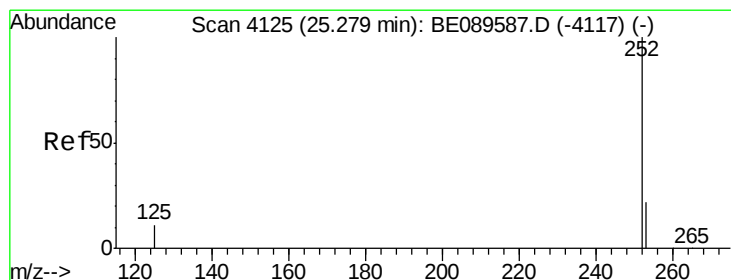
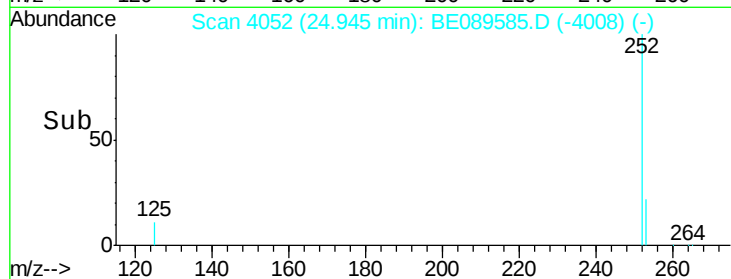
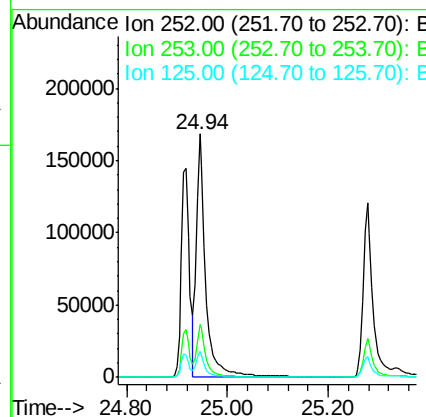
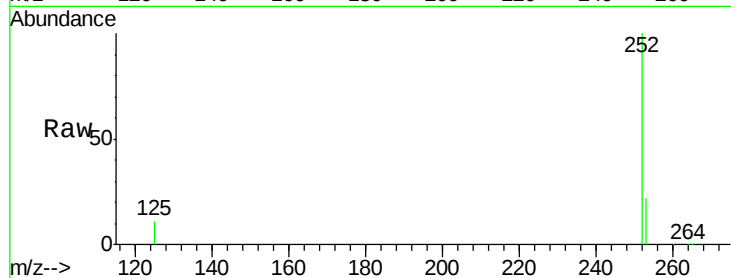




#27
Benzo(k)fluoranthene
Concen: 5.38 ng
RT: 24.94 min Scan# 4052
Delta R.T. -0.00 min
Lab File: BE089585.D
Acq: 17 Feb 2015 2:20

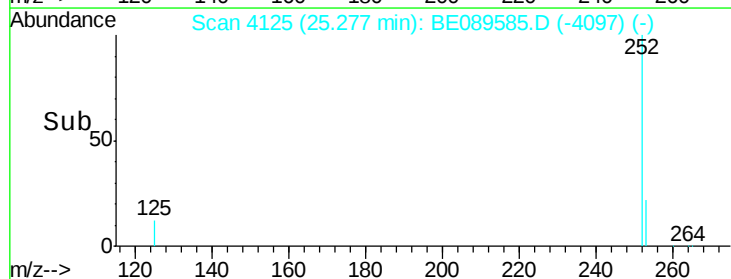
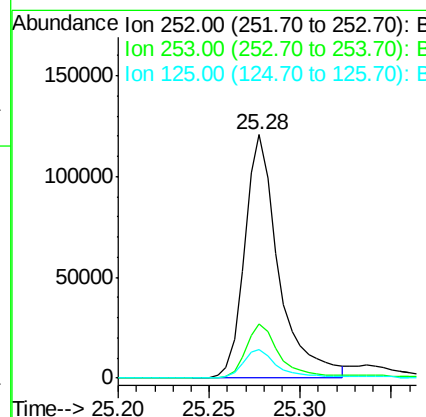
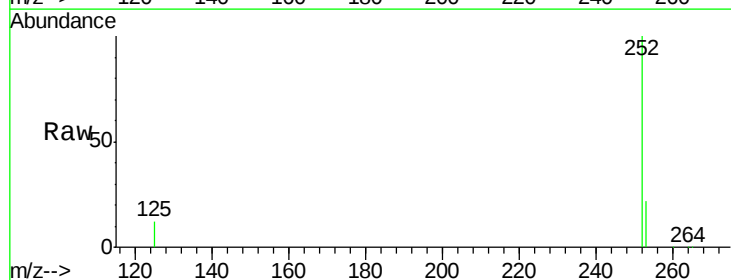
Instrument :
BNA_E
ClientSampleId :

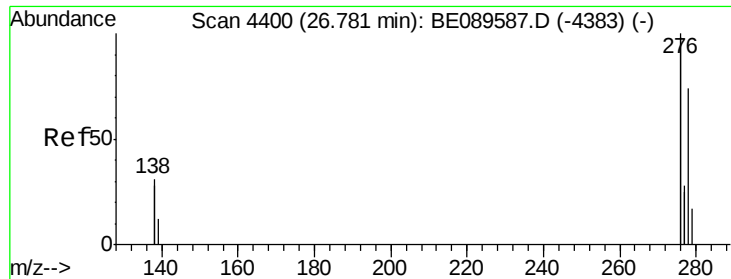
Tot Ion:252 Resp: 218033
Ion Ratio Lower Upper
252 100
253 21.8 17.9 26.9
125 10.9 8.6 13.0



#28
Benzo(a)pyrene
Concen: 6.53 ng
RT: 25.28 min Scan# 4125
Delta R.T. -0.00 min
Lab File: BE089585.D
Acq: 17 Feb 2015 2:20

Tgt Ion:252 Resp: 156619
Ion Ratio Lower Upper
252 100
253 22.1 17.7 26.5
125 11.7 9.6 14.4





#29

Dibenzo(a,h)anthracene

Concen: 6.79 ng

RT: 26.78 min Scan# 4400

Delta R.T. -0.00 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

Instrument :

BNA_E

ClientSampleId :

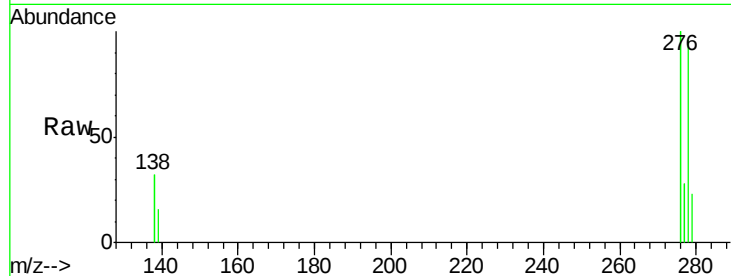
Tot Ion:278 Resp: 166469

Ion Ratio Lower Upper

278 100

139 16.9 13.9 20.9

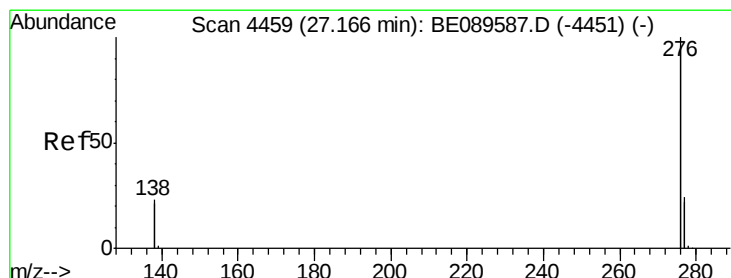
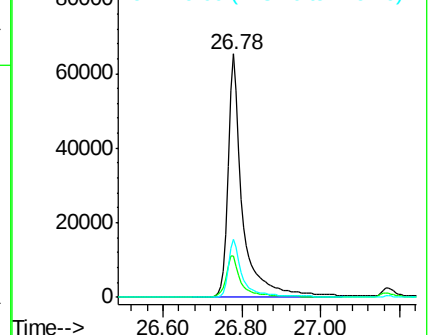
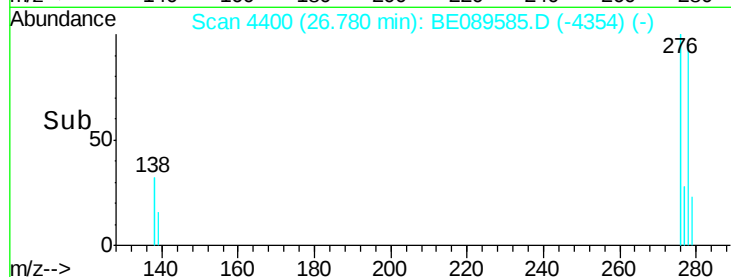
279 24.0 19.5 29.3



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: 5.90 ng

RT: 27.17 min Scan# 4460

Delta R.T. 0.01 min

Lab File: BE089585.D

Acq: 17 Feb 2015 2:20

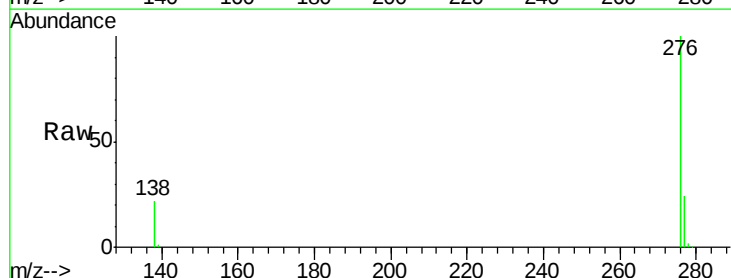
Tgt Ion:276 Resp: 706390

Ion Ratio Lower Upper

276 100

277 24.4 19.1 28.7

138 22.2 18.5 27.7



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

