

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089674.D
 Acq On : 24 Feb 2015 16:59
 Operator : TP/JJ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE022415

Quant Time: Feb 25 14:26:23 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 14:06:35 2015
 Response via : Initial Calibration

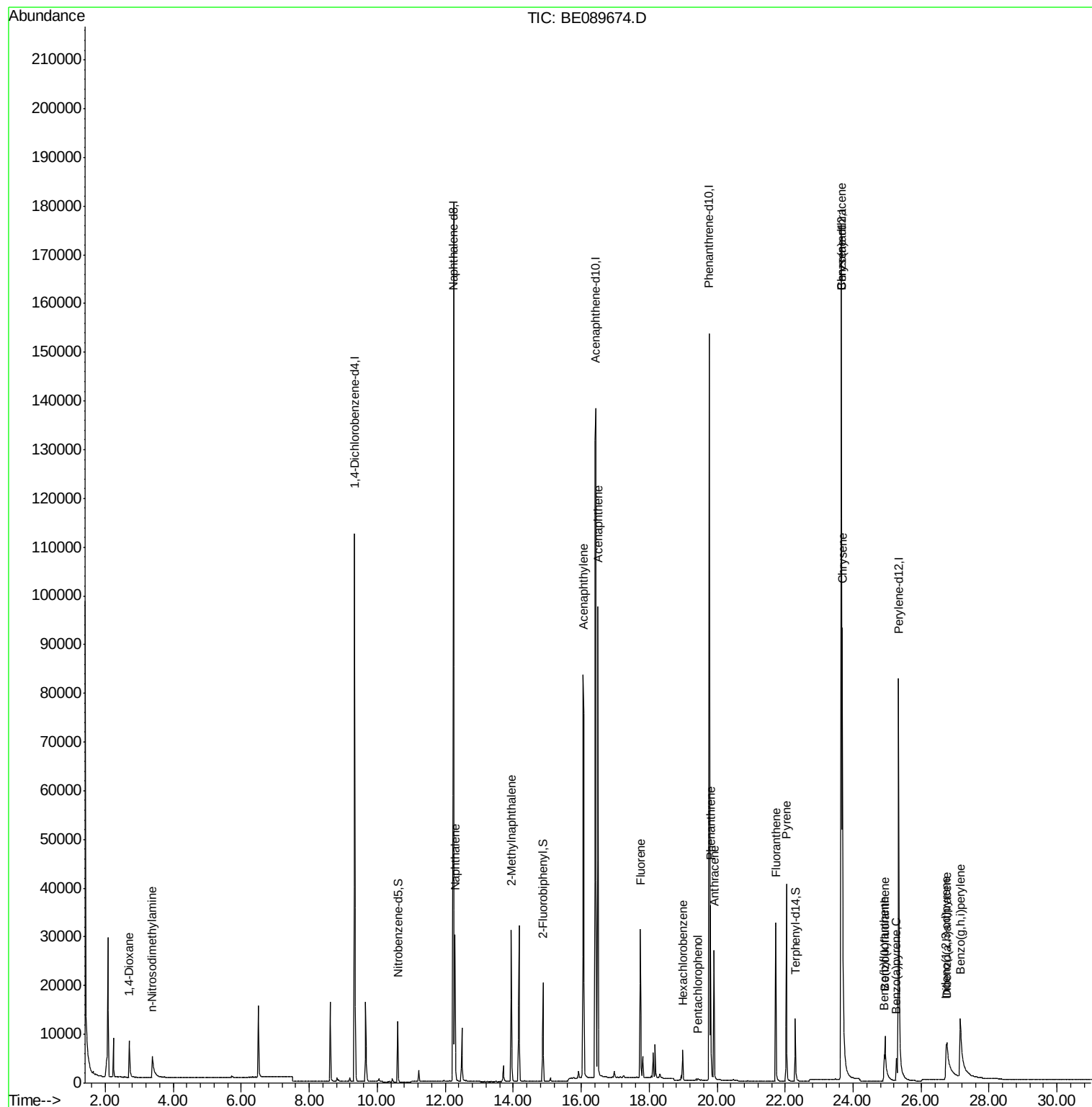
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	48101	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	207404	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	93434	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	168222	5.00	ng	0.00
19) Chrysene-d12	23.66	240	127483	5.00	ng	0.00
25) Perylene-d12	25.34	264	93455	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	9134	0.91	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	19342	0.91	ng	0.00
21) Terphenyl-d14	22.30	244	13782	0.92	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.70	88	5209	0.86	ng	96
3) n-Nitrosodimethylamine	3.37	42	6602	0.89	ng	# 96
6) Naphthalene	12.29	128	36509	0.91	ng	100
7) 2-Methylnaphthalene	13.94	142	20922	0.92	ng	97
10) Acenaphthylene	16.06	152	119663	0.89	ng	99
11) Acenaphthene	16.49	154	19102	0.90	ng	99
12) Fluorene	17.74	166	21076	0.89	ng	99
14) Hexachlorobenzene	18.99	284	3917	0.90	ng	99
15) Pentachlorophenol	19.43	266	419	1.06	ng	96
16) Phenanthrene	19.81	178	32077	0.89	ng	100
17) Anthracene	19.91	178	26916	0.88	ng	100
18) Fluoranthene	21.72	202	26183	0.87	ng	98
20) Pyrene	22.04	202	28668	0.93	ng	100
22) Benzo(a)anthracene	23.64	228	74068	0.88	ng	98
23) Chrysene	23.69	228	101313	0.88	ng	96
24) Indeno(1,2,3-cd)pyrene	26.73	276	30406	0.92	ng	# 53
26) Benzo(b)fluoranthene	24.91	252	5484	0.95	ng	97
27) Benzo(k)fluoranthene	24.94	252	20438	0.93	ng	99
28) Benzo(a)pyrene	25.27	252	6922	0.96	ng	98
29) Dibenzo(a,h)anthracene	26.77	278	5415	0.98	ng	# 92
30) Benzo(g,h,i)perylene	27.16	276	36059	0.89	ng	97

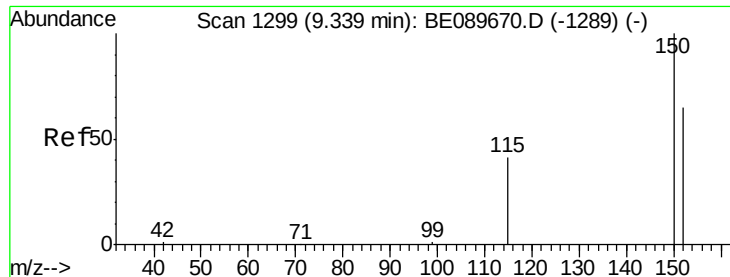
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

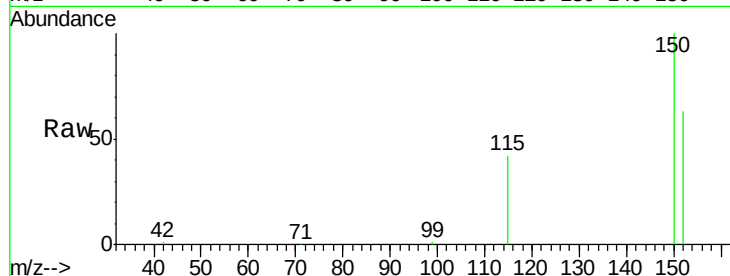
Tgt Ion:152 Resp: 48101

Ion Ratio Lower Upper

152 100

150 157.5 123.4 185.0

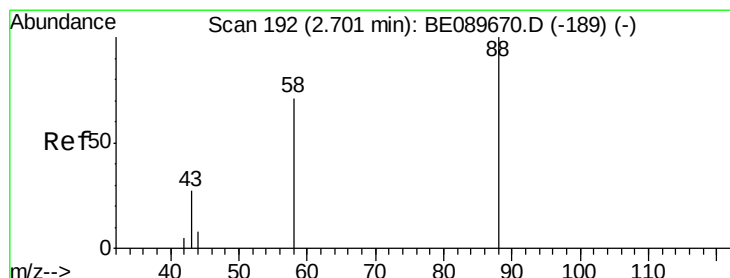
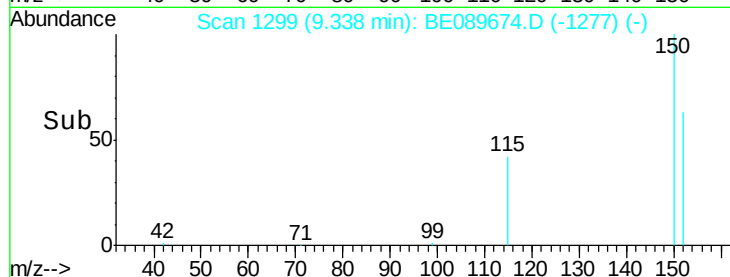
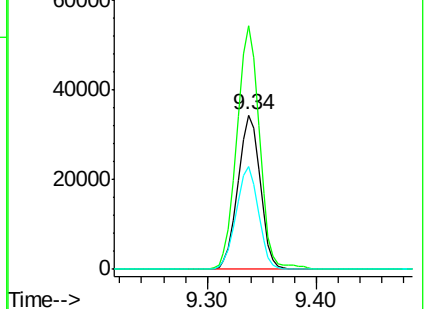
115 66.1 50.8 76.2



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: 0.86 ng

RT: 2.70 min Scan# 192

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

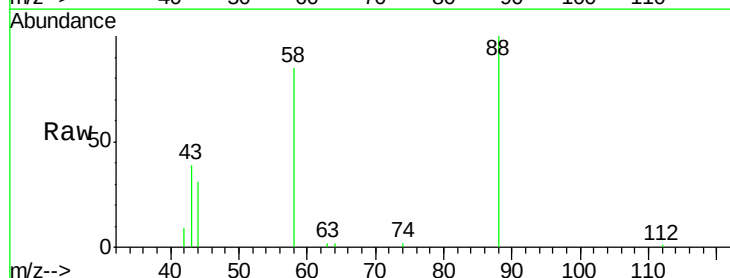
Tgt Ion: 88 Resp: 5209

Ion Ratio Lower Upper

88 100

58 74.5 62.4 93.6

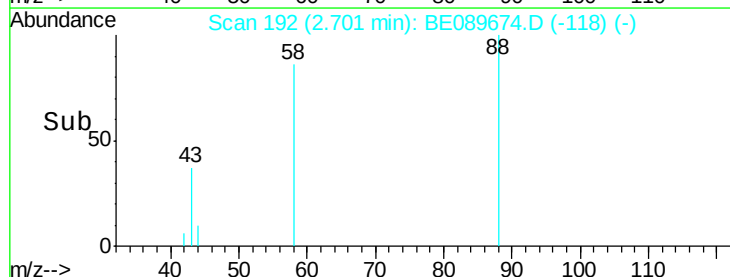
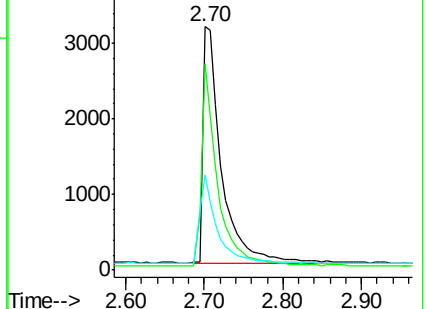
43 35.1 26.6 40.0

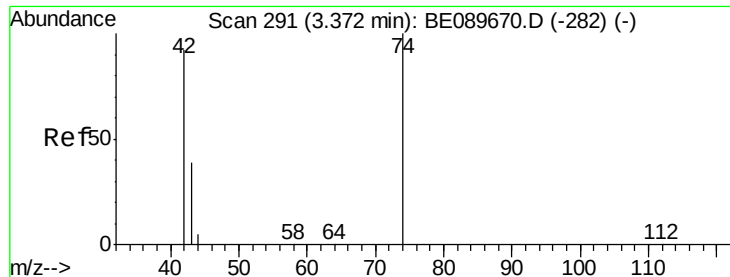


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



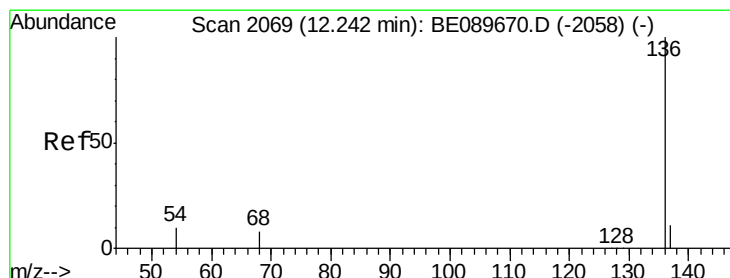
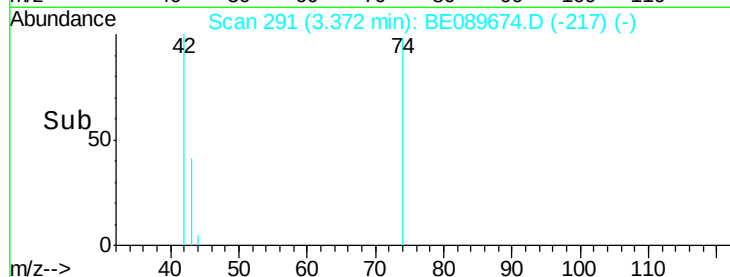
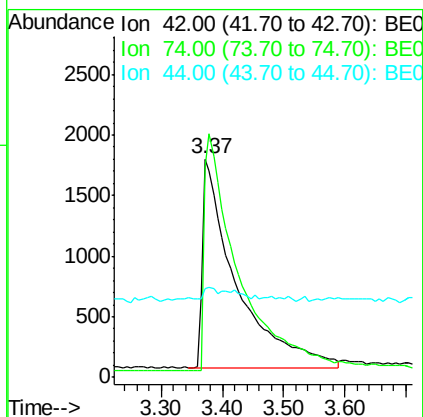
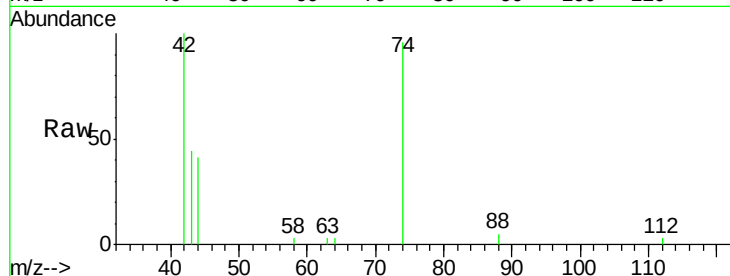


#3

n-Nitrosodimethylamine
Concen: 0.89 ng
RT: 3.37 min Scan# 291
Delta R.T. -0.00 min
Lab File: BE089674.D
Acq: 24 Feb 2015 16:59

Instrument :
BNA_E
ClientSampleId :
ICVBE022415

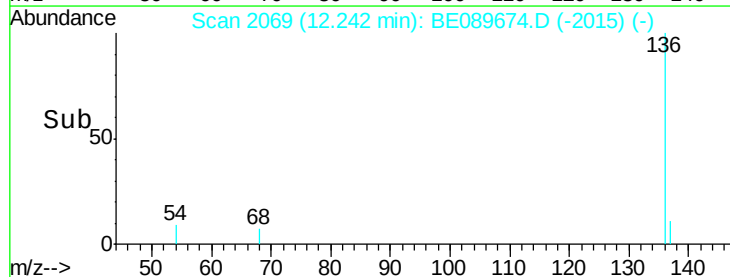
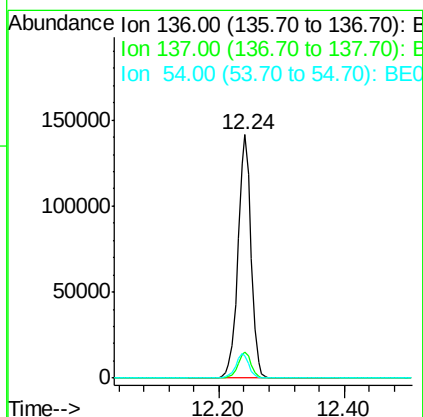
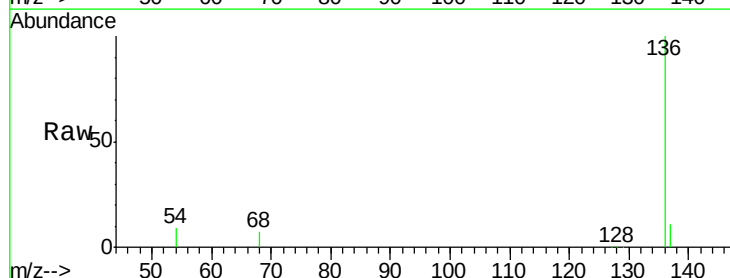
Tgt Ion: 42 Resp: 6602
Ion Ratio Lower Upper
42 100
74 118.4 91.1 136.7
44 2.4 4.7 7.1#

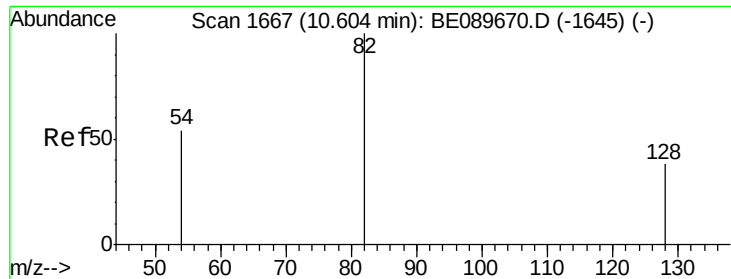


#4

Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2069
Delta R.T. -0.00 min
Lab File: BE089674.D
Acq: 24 Feb 2015 16:59

Tgt Ion: 136 Resp: 207404
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 9.3 7.8 11.8





#5

Nitrobenzene-d5

Concen: 0.91 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

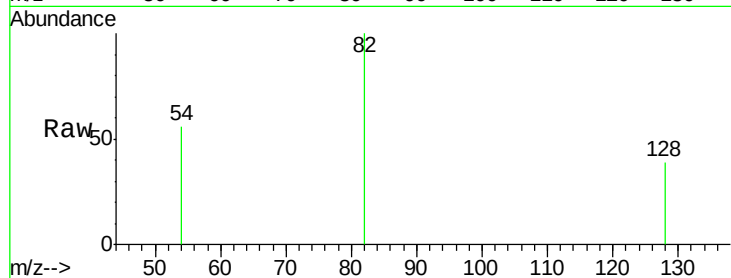
Tgt Ion: 82 Resp: 9134

Ion Ratio Lower Upper

82 100

128 39.3 30.6 46.0

54 56.0 43.6 65.4

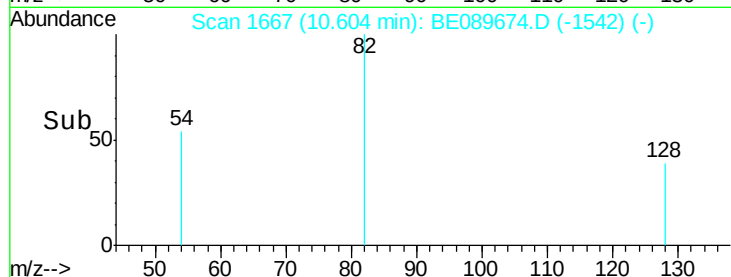


Abundance Ion 82.00 (81.70 to 82.70): BE0

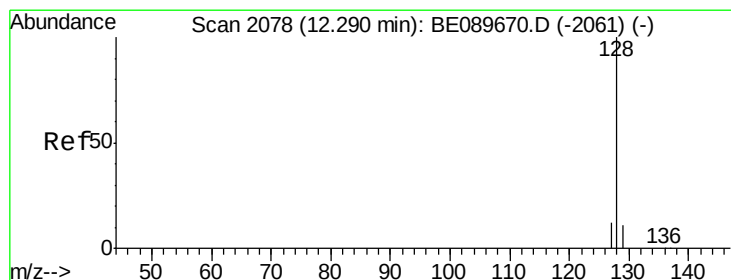
Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

Time-->



Time-->



#6

Naphthalene

Concen: 0.91 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

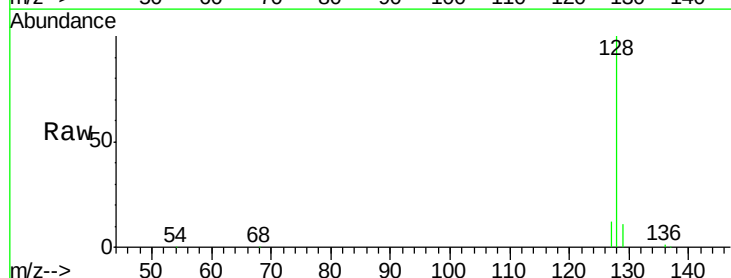
Tgt Ion: 128 Resp: 36509

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

127 12.2 9.7 14.5

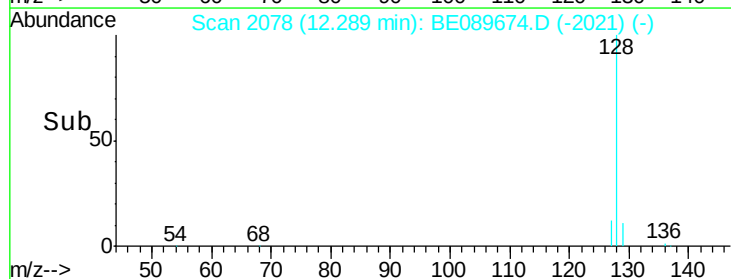


Abundance Ion 128.00 (127.70 to 128.70): E

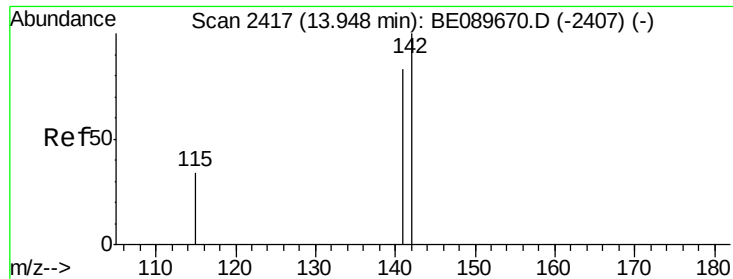
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

Time-->



Time-->



#7

2-Methylnaphthalene

Concen: 0.92 ng

RT: 13.94 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

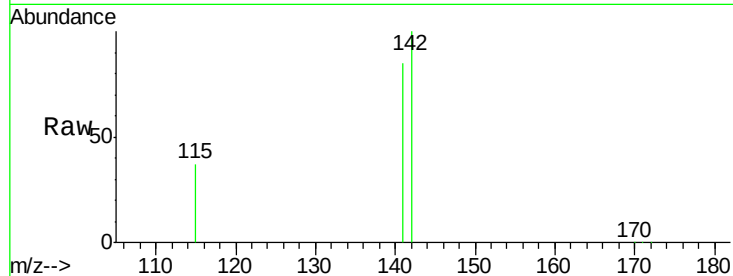
Tgt Ion:142 Resp: 20922

Ion Ratio Lower Upper

142 100

141 84.6 66.0 99.0

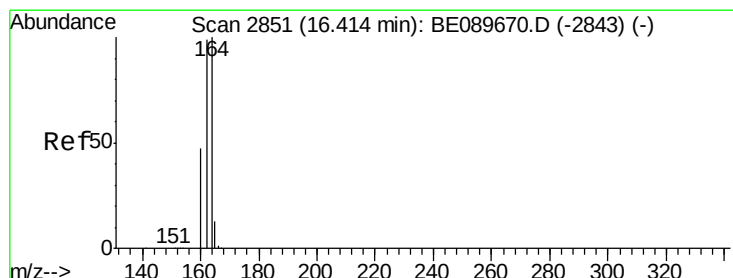
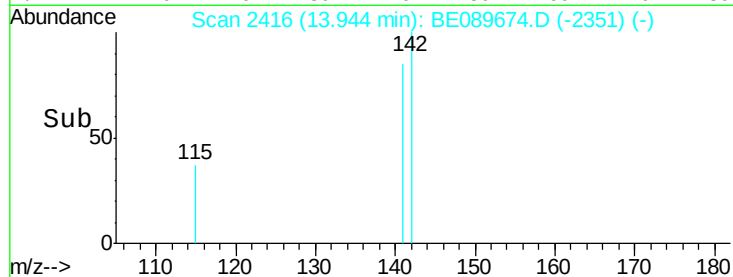
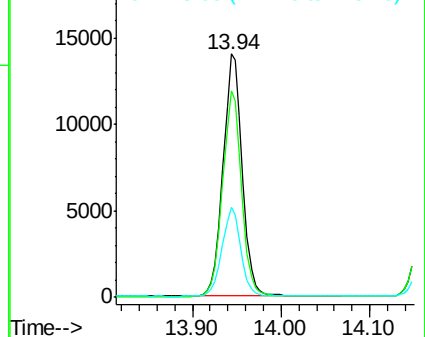
115 37.2 27.4 41.0



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. 0.01 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

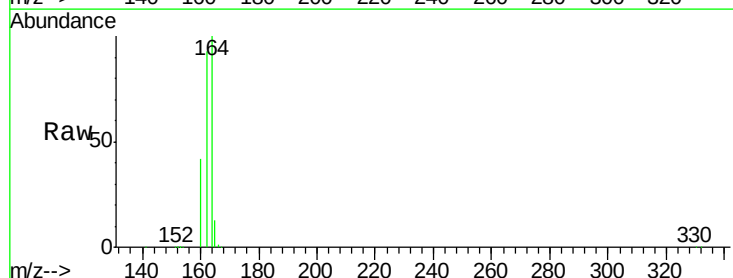
Tgt Ion:164 Resp: 93434

Ion Ratio Lower Upper

164 100

162 92.8 79.4 119.2

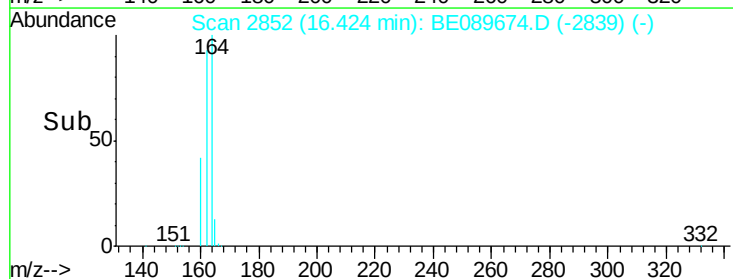
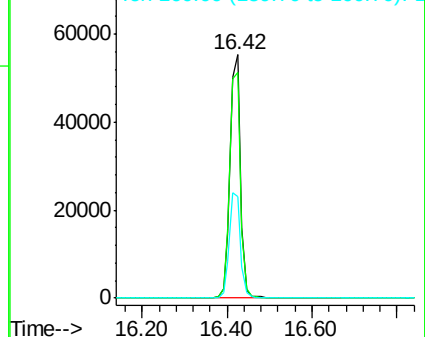
160 41.6 37.6 56.4

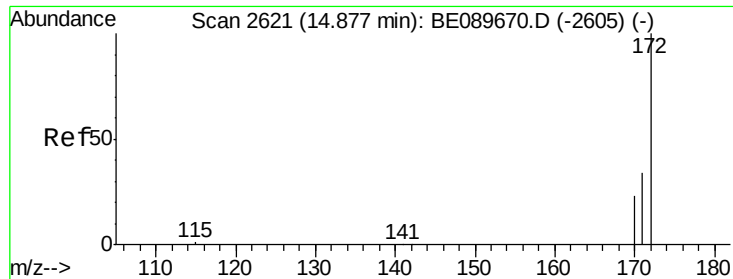


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.91 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

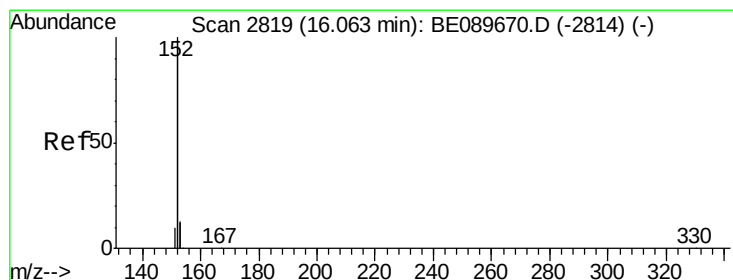
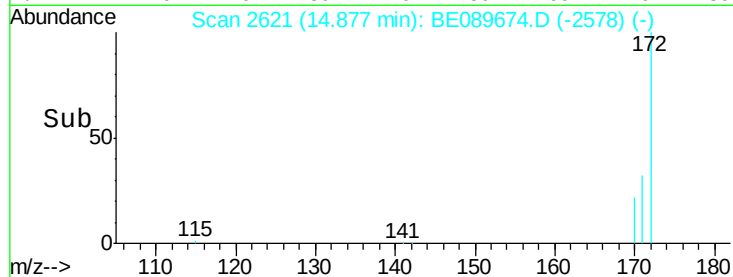
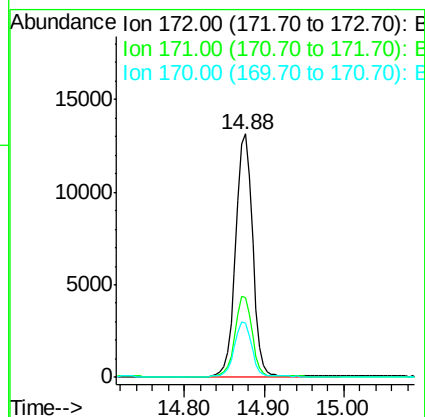
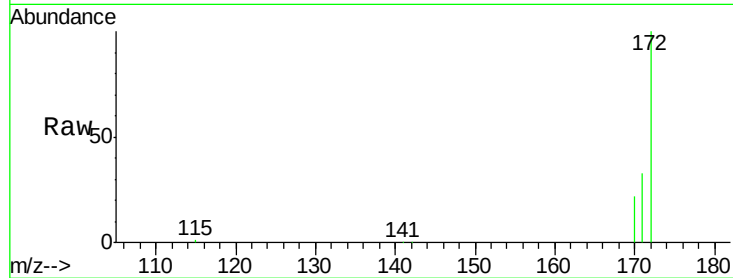
Tgt Ion:172 Resp: 19342

Ion Ratio Lower Upper

172 100

171 32.6 27.3 40.9

170 22.3 18.5 27.7



#10

Acenaphthylene

Concen: 0.89 ng

RT: 16.06 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

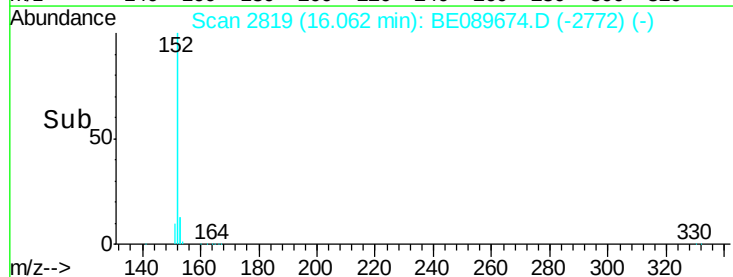
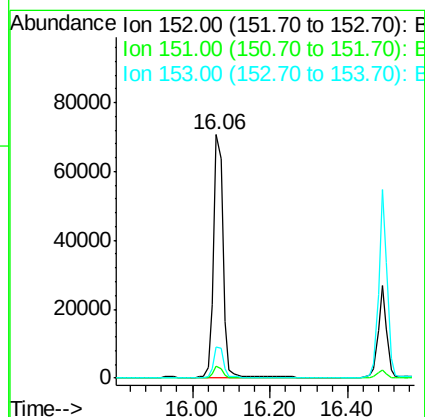
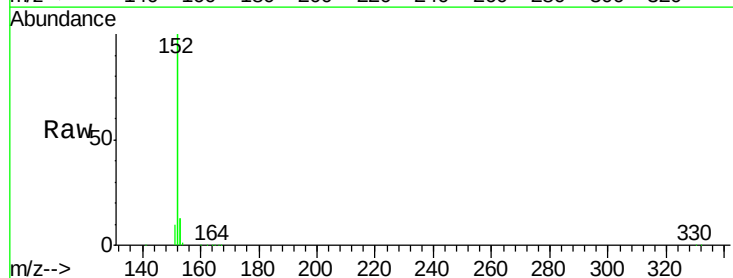
Tgt Ion:152 Resp: 119663

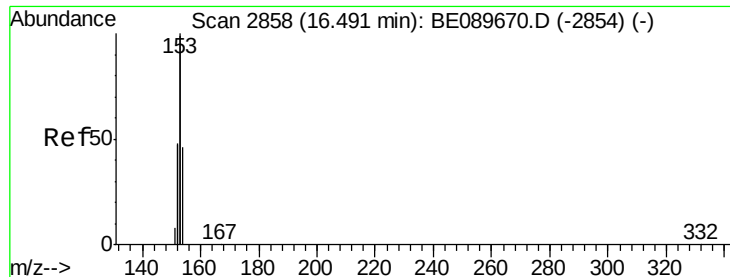
Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

153 12.7 10.4 15.6





#11

Acenaphthene

Concen: 0.90 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

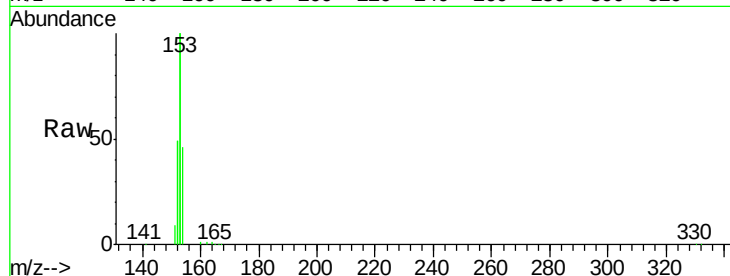
Tgt Ion:154 Resp: 19102

Ion Ratio Lower Upper

154 100

153 431.1 345.8 518.8

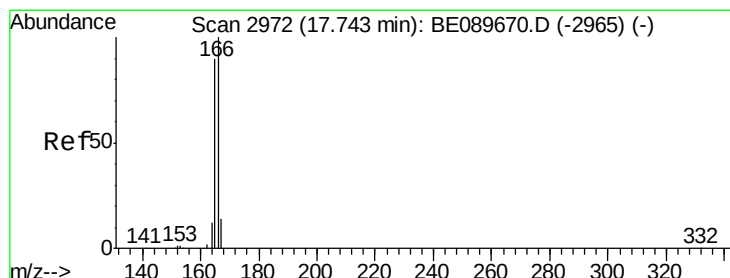
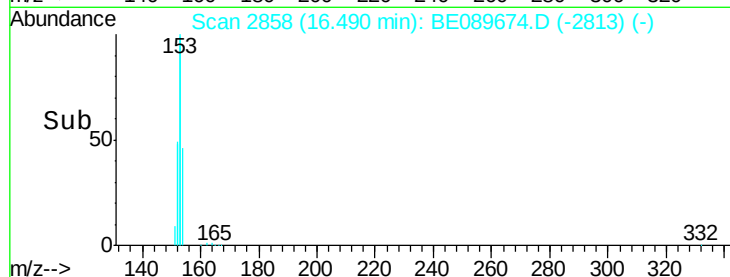
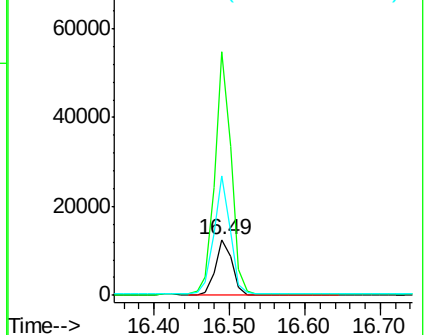
152 209.2 168.6 252.8



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



#12

Fluorene

Concen: 0.89 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

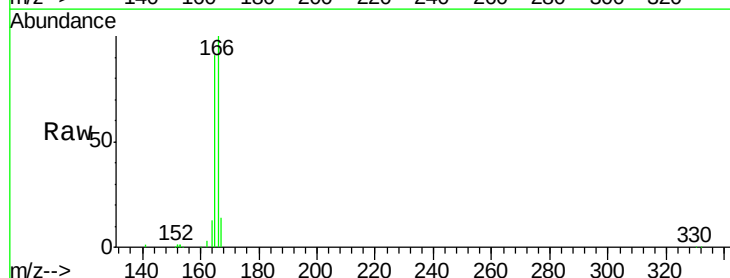
Tgt Ion:166 Resp: 21076

Ion Ratio Lower Upper

166 100

165 92.6 73.6 110.4

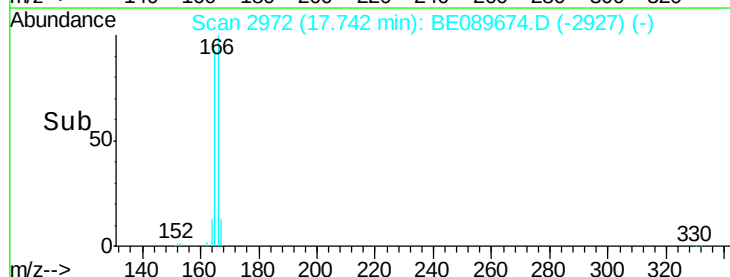
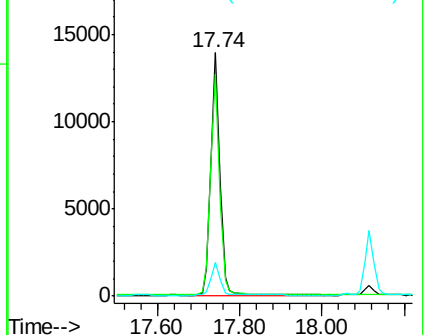
167 13.3 10.6 16.0

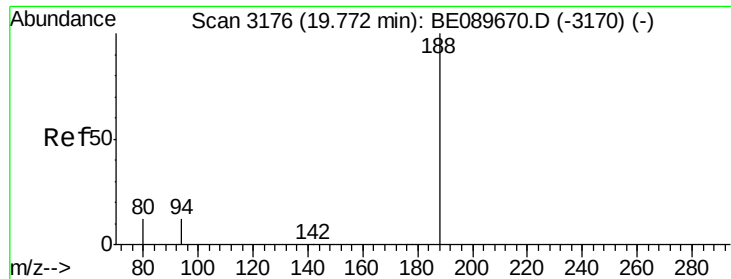


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

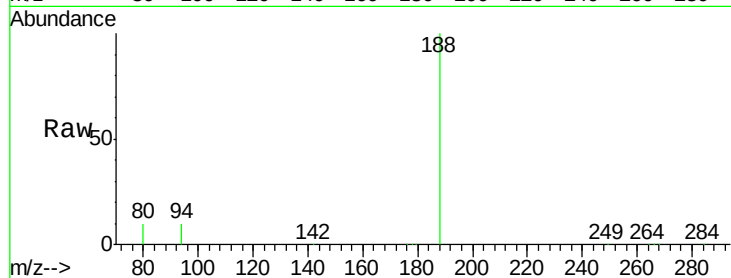




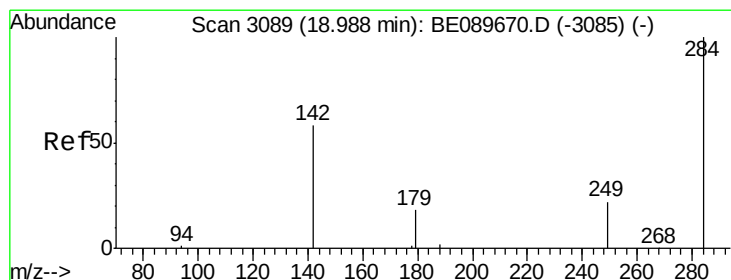
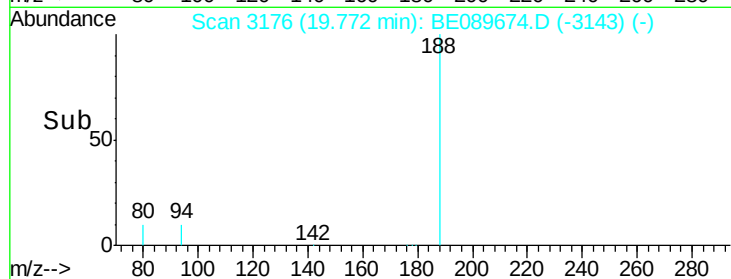
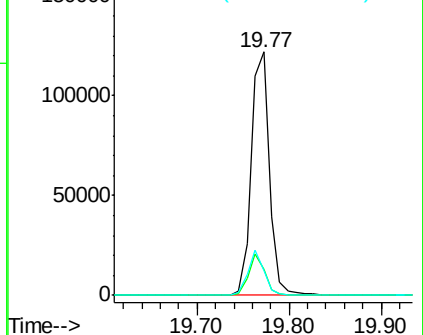
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. -0.00 min
Lab File: BE089674.D
Acq: 24 Feb 2015 16:59

Instrument :
BNA_E
ClientSampleId :
ICVBE022415

Tgt Ion:188 Resp: 168222
Ion Ratio Lower Upper
188 100
94 10.5 9.4 14.2
80 10.4 9.5 14.3

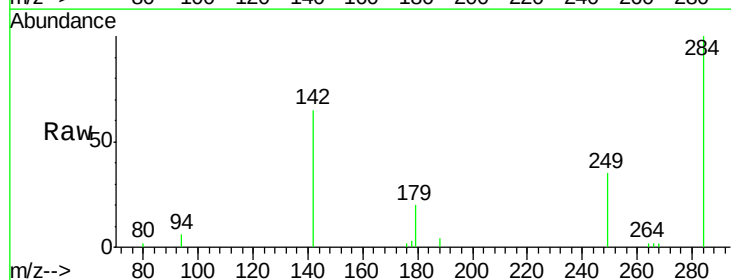


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

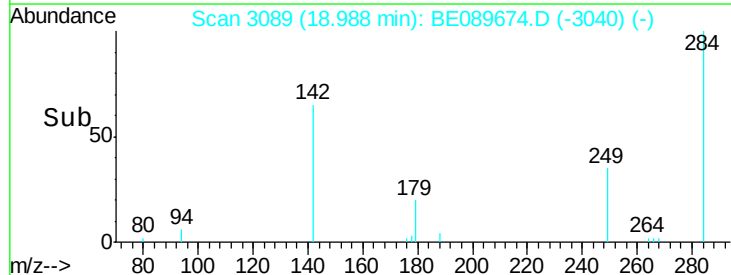
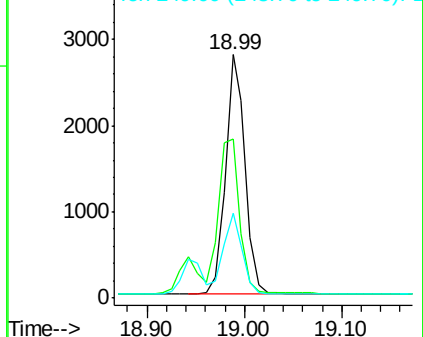


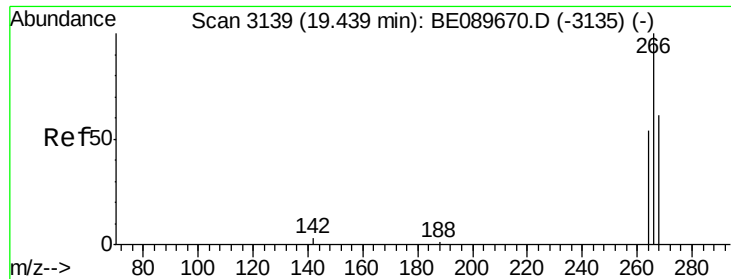
#14
Hexachlorobenzene
Concen: 0.90 ng
RT: 18.99 min Scan# 3089
Delta R.T. -0.00 min
Lab File: BE089674.D
Acq: 24 Feb 2015 16:59

Tgt Ion:284 Resp: 3917
Ion Ratio Lower Upper
284 100
142 69.6 55.4 83.2
249 33.1 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

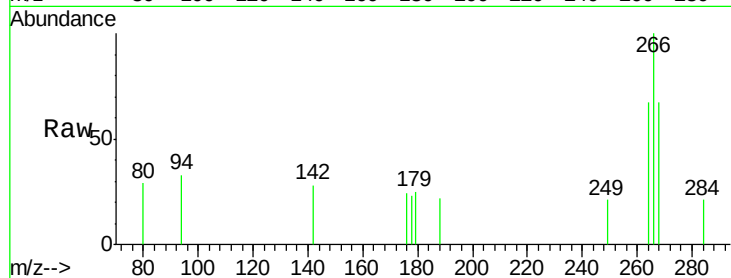




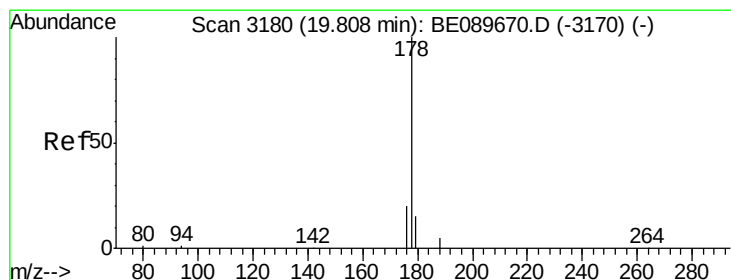
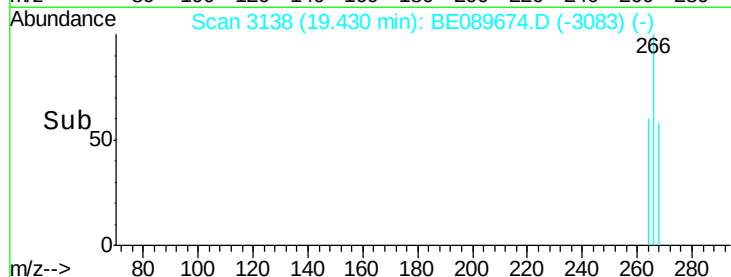
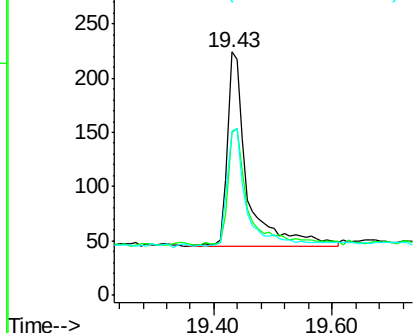
#15
 Pentachlorophenol
 Concen: 1.06 ng
 RT: 19.43 min Scan# 3138
 Delta R.T. -0.01 min
 Lab File: BE089674.D
 Acq: 24 Feb 2015 16:59

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE022415

Tgt Ion: 266 Resp: 419
 Ion Ratio Lower Upper
 266 100
 268 67.0 56.3 84.5
 264 67.4 51.8 77.8

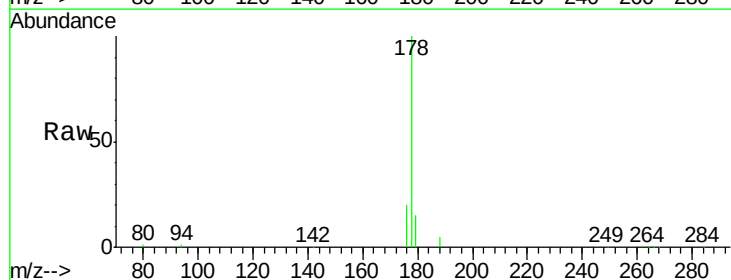


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

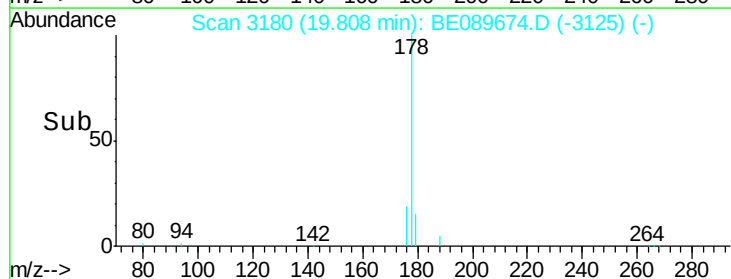
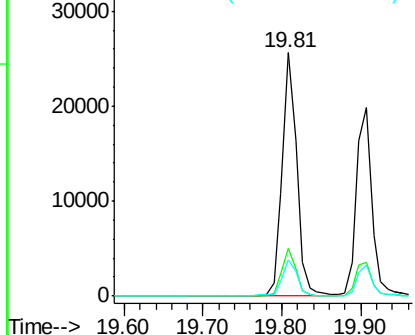


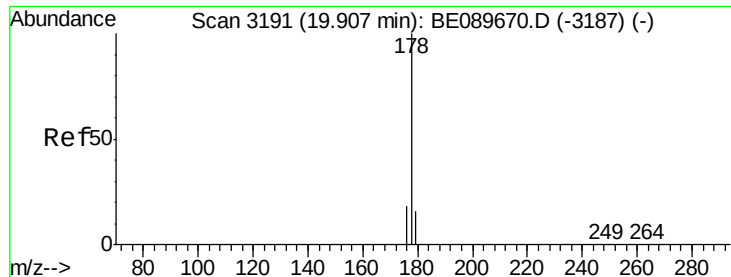
#16
 Phenanthrene
 Concen: 0.89 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: BE089674.D
 Acq: 24 Feb 2015 16:59

Tgt Ion: 178 Resp: 32077
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.3 22.9
 179 15.4 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.88 ng

RT: 19.91 min Scan# 3191

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

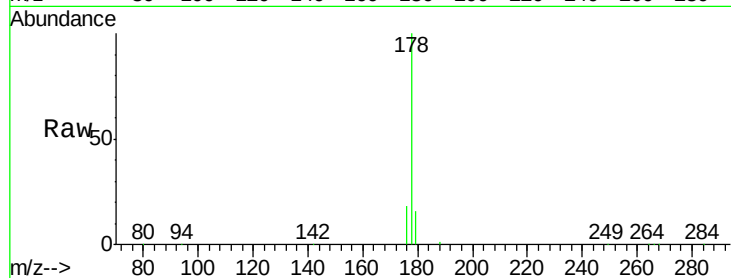
Tgt Ion:178 Resp: 26916

Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

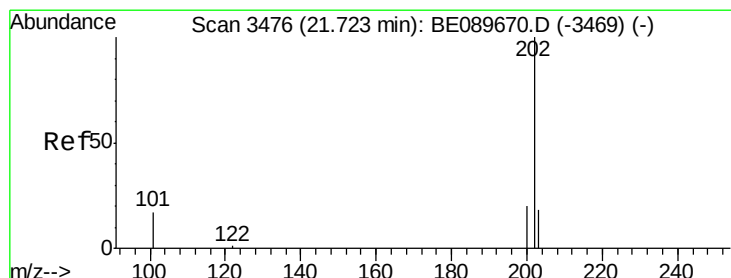
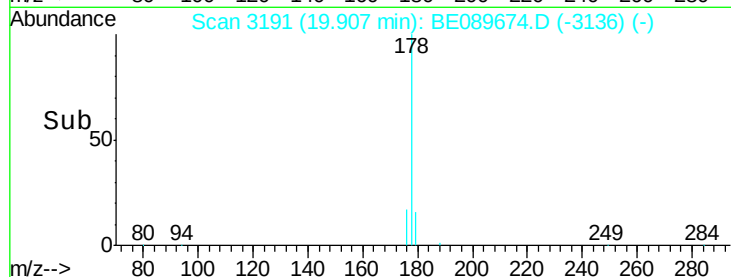
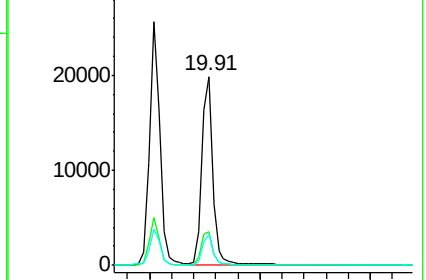
179 15.3 12.2 18.2



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: 0.87 ng

RT: 21.72 min Scan# 3476

Delta R.T. 0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

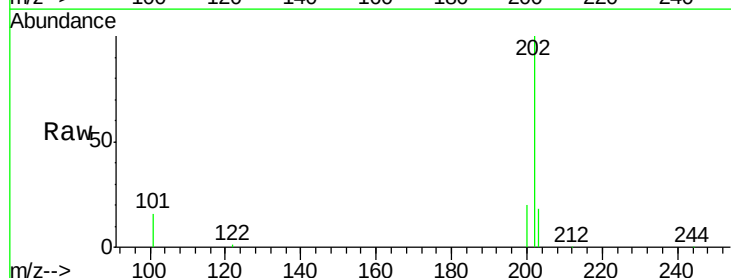
Tgt Ion:202 Resp: 26183

Ion Ratio Lower Upper

202 100

101 17.3 14.9 22.3

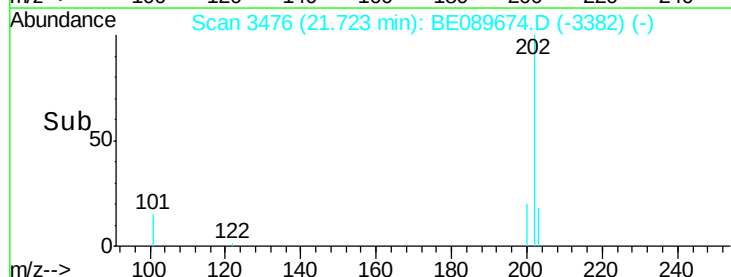
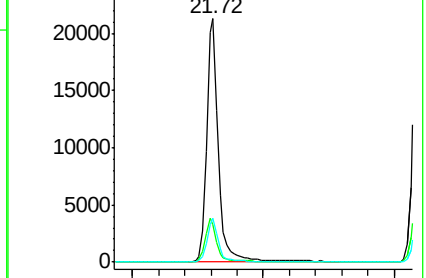
203 17.2 13.8 20.6

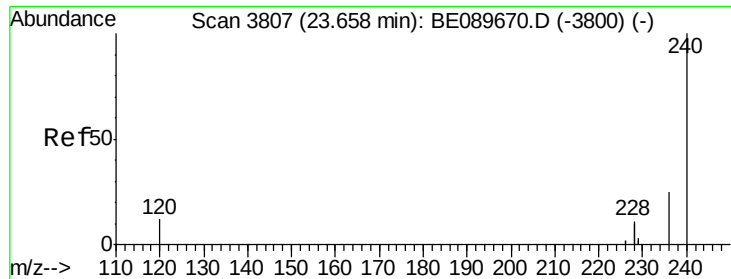


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

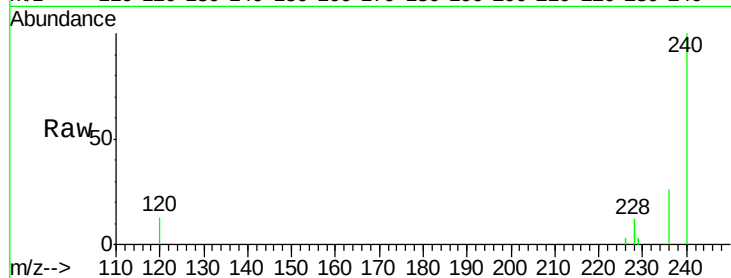
Tgt Ion:240 Resp: 127483

Ion Ratio Lower Upper

240 100

120 12.9 9.4 14.0

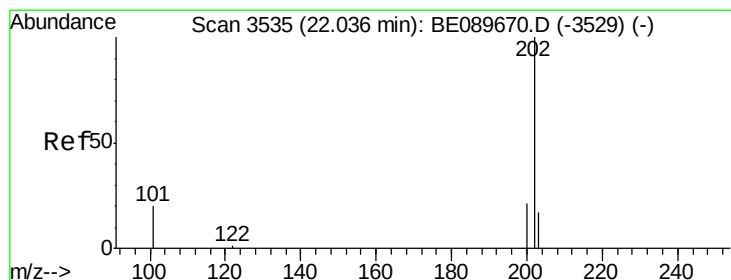
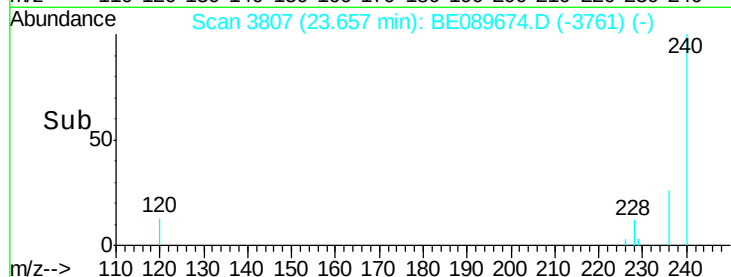
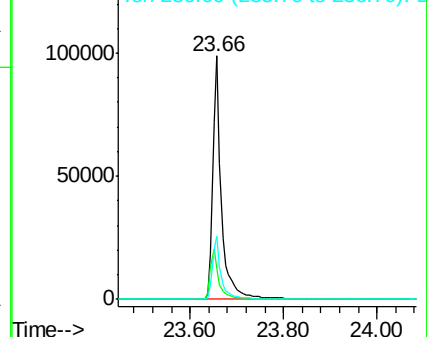
236 25.8 19.9 29.9



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: 0.93 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

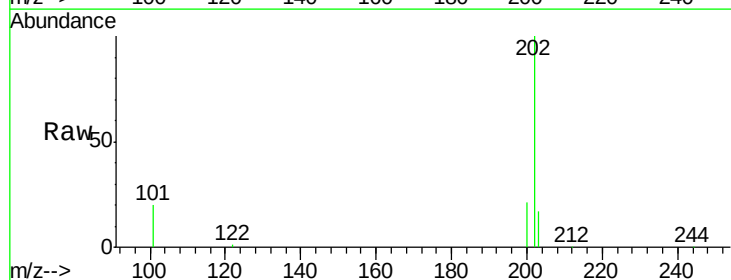
Tgt Ion:202 Resp: 28668

Ion Ratio Lower Upper

202 100

200 20.6 16.4 24.6

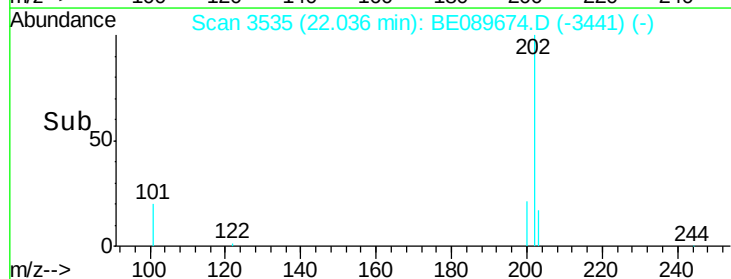
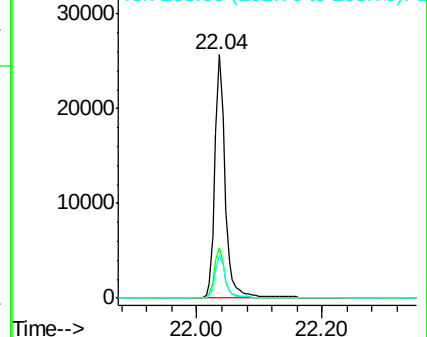
203 17.3 13.9 20.9

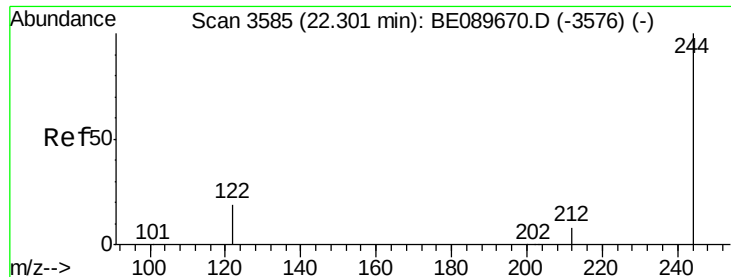


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.92 ng

RT: 22.30 min Scan# 3585

Delta R.T. 0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

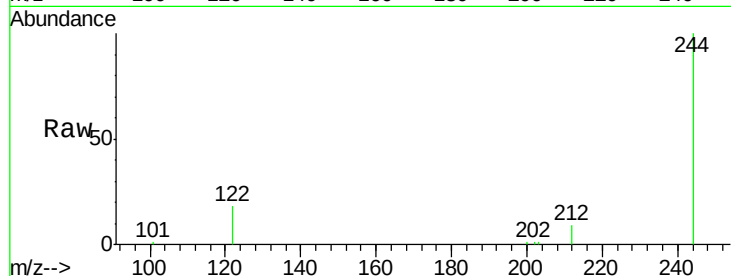
Tgt Ion:244 Resp: 13782

Ion Ratio Lower Upper

244 100

212 8.6 7.0 10.6

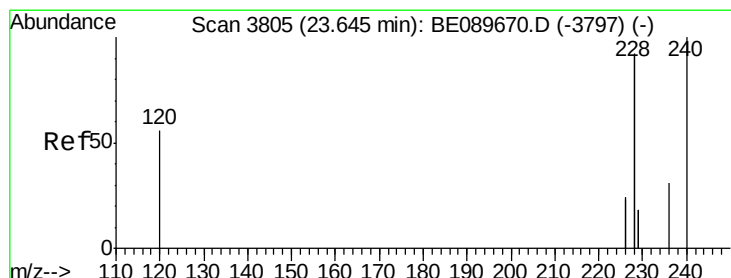
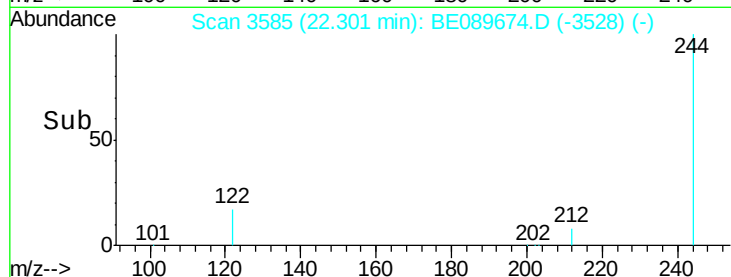
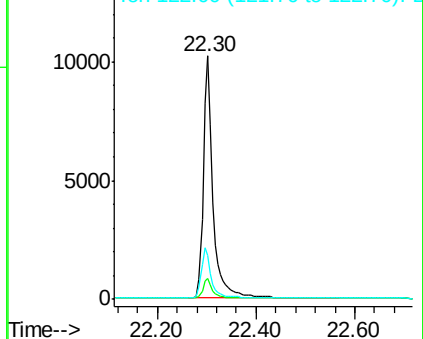
122 17.9 15.4 23.0



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: 0.88 ng

RT: 23.64 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

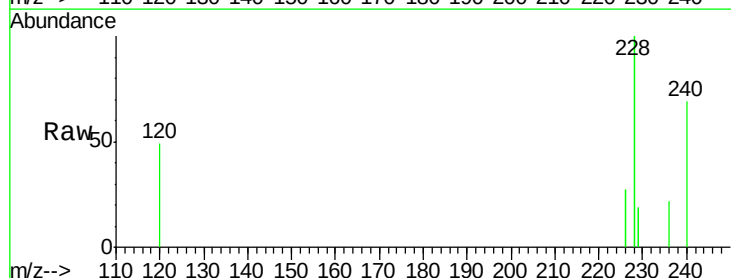
Tgt Ion:228 Resp: 74068

Ion Ratio Lower Upper

228 100

226 27.2 20.6 31.0

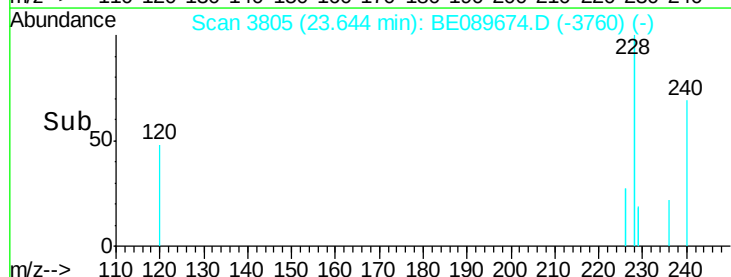
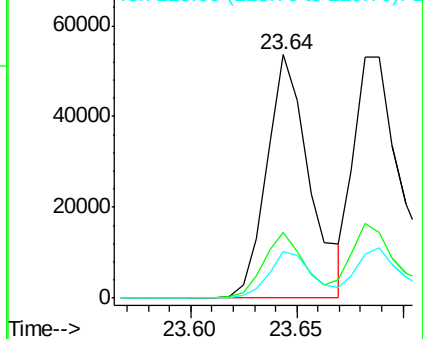
229 19.0 15.8 23.6

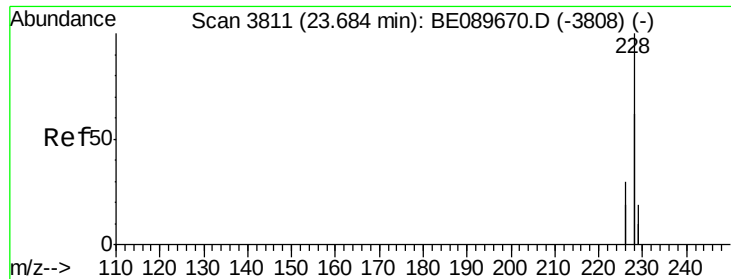


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.88 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

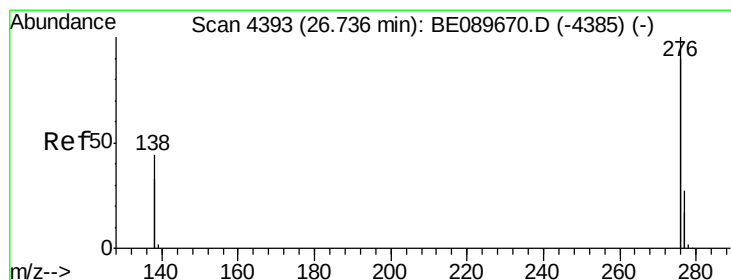
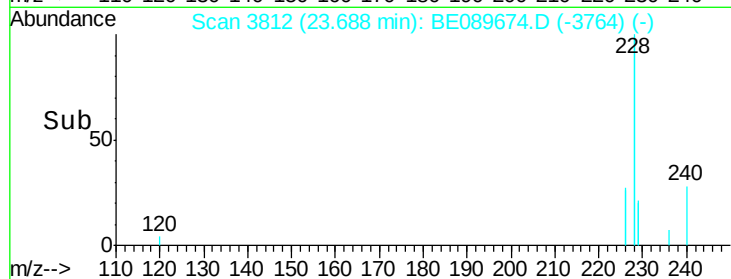
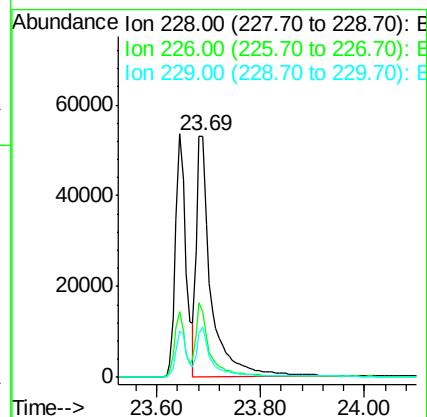
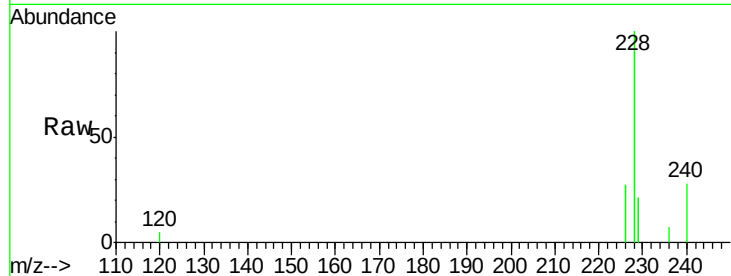
Tgt Ion:228 Resp: 101313

Ion Ratio Lower Upper

228 100

226 27.0 23.6 35.4

229 20.8 15.3 22.9



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.92 ng

RT: 26.73 min Scan# 4393

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

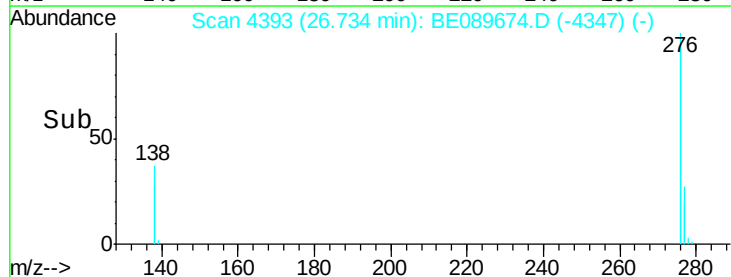
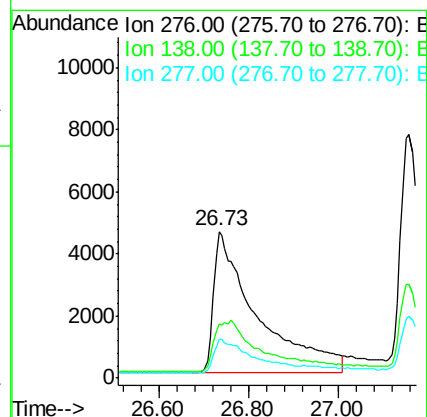
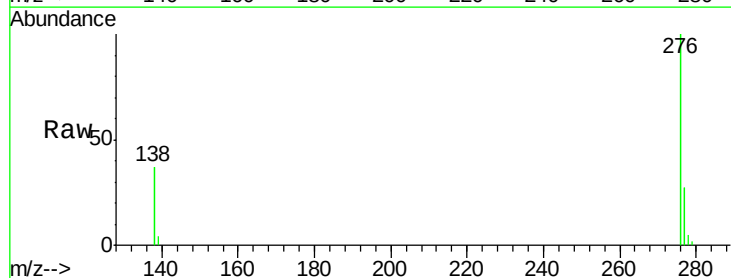
Tgt Ion:276 Resp: 30406

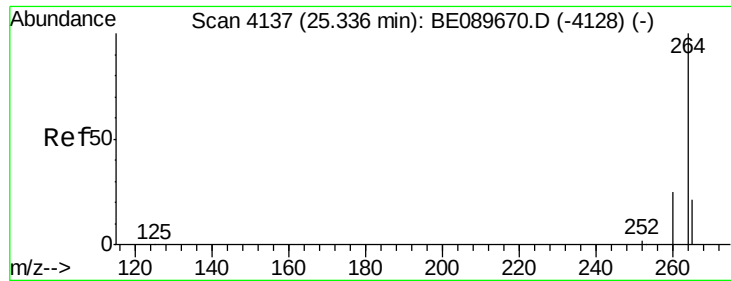
Ion Ratio Lower Upper

276 100

138 0.0 0.0 0.0

277 22.5 5.2 7.8#

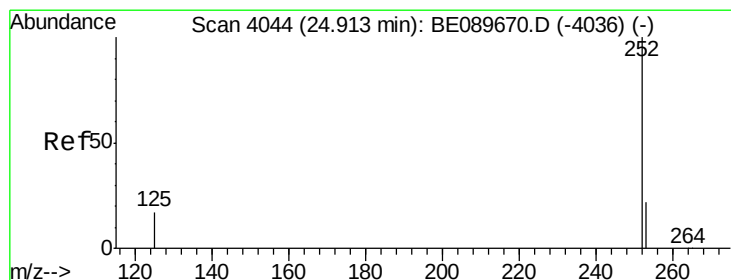
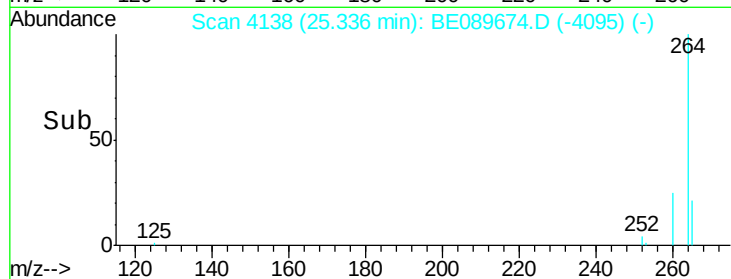
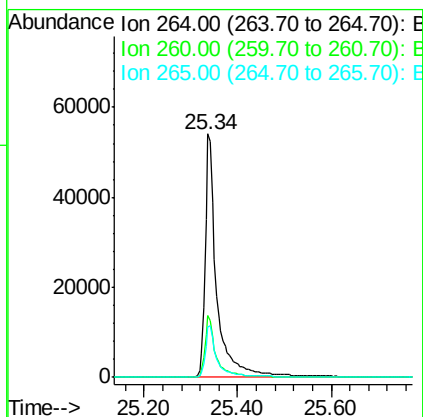
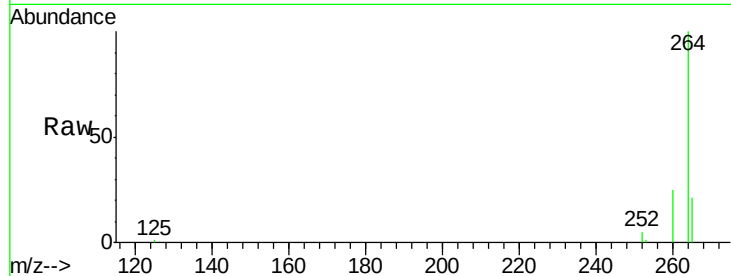




#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. 0.00 min
Lab File: BE089674.D
Acq: 24 Feb 2015 16:59

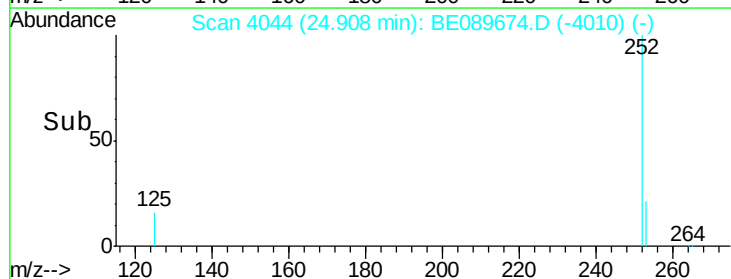
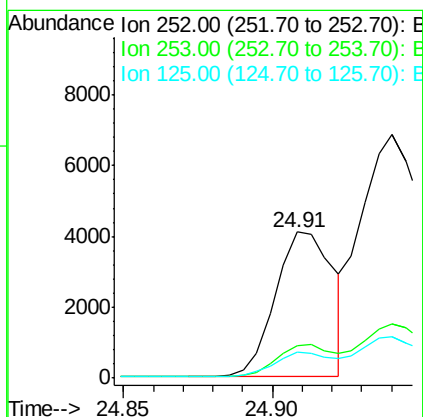
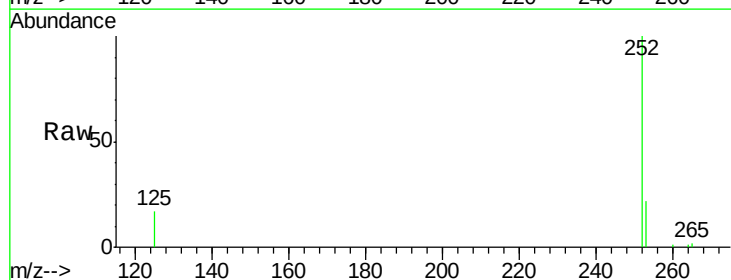
Instrument :
BNA_E
ClientSampleId :
ICVBE022415

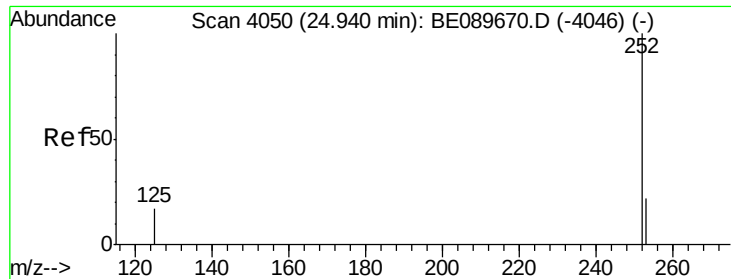
Tgt Ion: 264 Resp: 93455
Ion Ratio Lower Upper
264 100
260 25.4 20.2 30.4
265 20.9 17.0 25.4



#26
Benzo(b)fluoranthene
Concen: 0.95 ng
RT: 24.91 min Scan# 4044
Delta R.T. -0.00 min
Lab File: BE089674.D
Acq: 24 Feb 2015 16:59

Tgt Ion: 252 Resp: 5484
Ion Ratio Lower Upper
252 100
253 22.0 18.6 27.8
125 17.4 15.0 22.6





#27

Benzo(k)fluoranthene

Concen: 0.93 ng

RT: 24.94 min Scan# 4051

Delta R.T. 0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

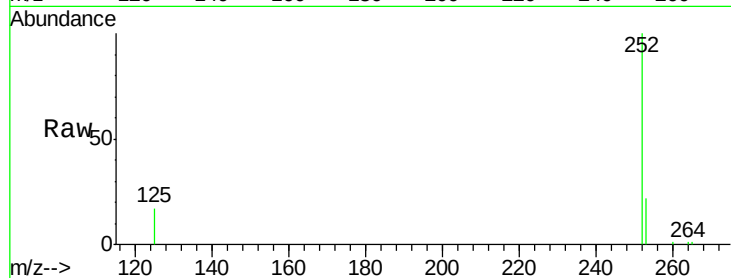
Tgt Ion:252 Resp: 20438

Ion Ratio Lower Upper

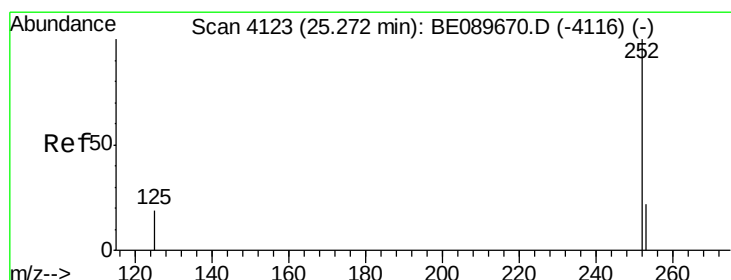
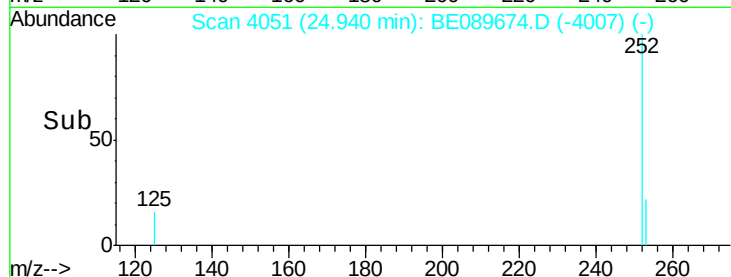
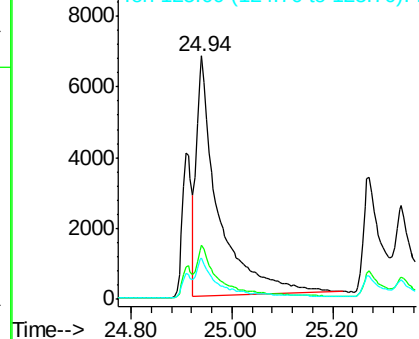
252 100

253 22.1 18.0 27.0

125 16.9 14.3 21.5



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.96 ng

RT: 25.27 min Scan# 4124

Delta R.T. 0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

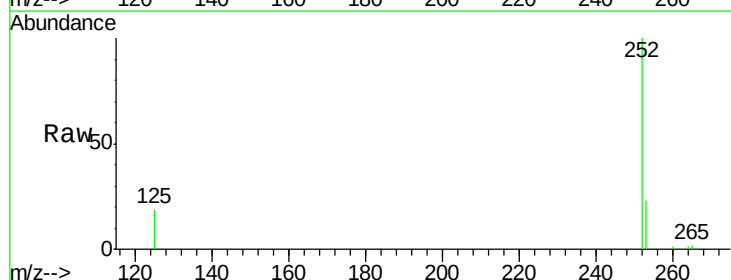
Tgt Ion:252 Resp: 6922

Ion Ratio Lower Upper

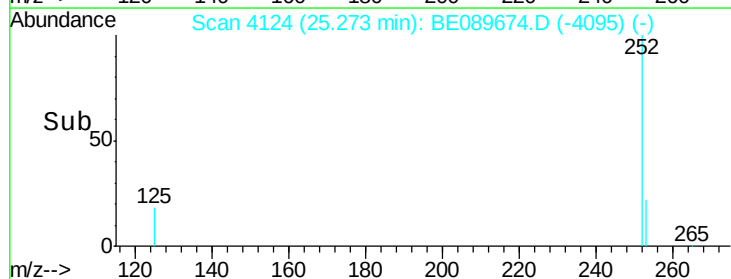
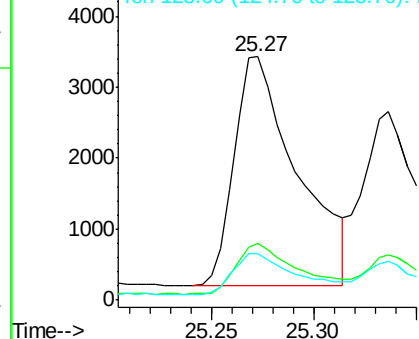
252 100

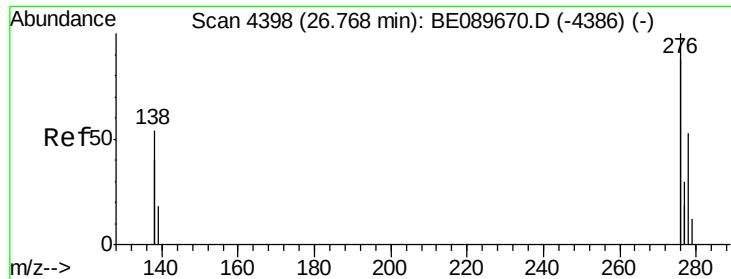
253 23.5 18.8 28.2

125 18.9 16.6 24.8



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: 0.98 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

Instrument :

BNA_E

ClientSampleId :

ICVBE022415

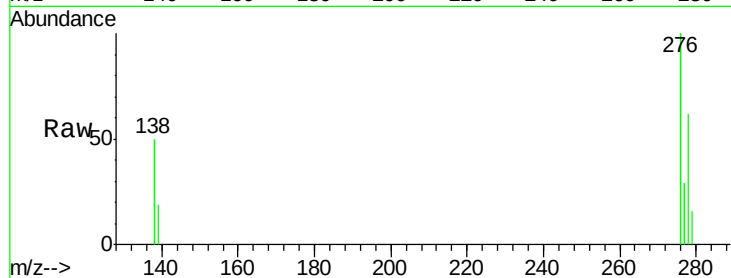
Tgt Ion:278 Resp: 5415

Ion Ratio Lower Upper

278 100

139 30.1 30.4 45.6#

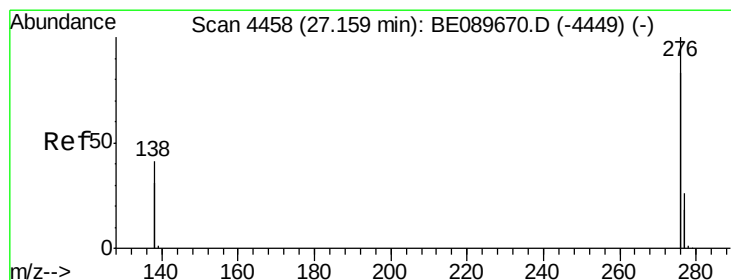
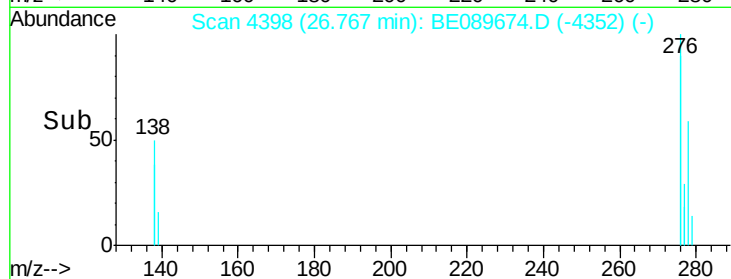
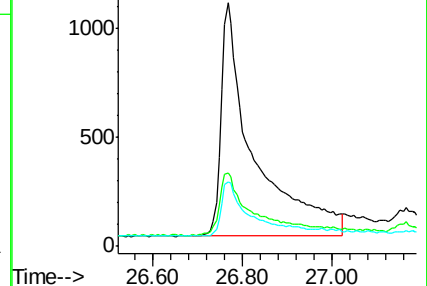
279 26.4 22.0 33.0



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: 0.89 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.00 min

Lab File: BE089674.D

Acq: 24 Feb 2015 16:59

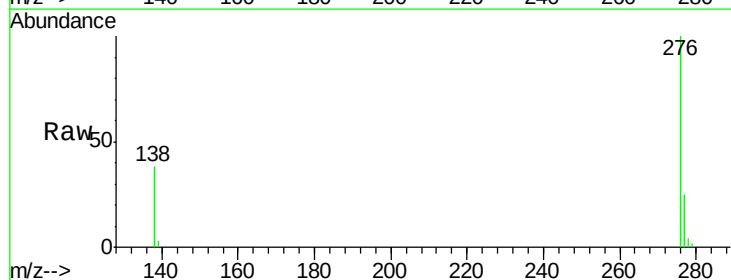
Tgt Ion:276 Resp: 36059

Ion Ratio Lower Upper

276 100

277 25.4 21.0 31.6

138 38.4 33.0 49.4



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

