

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091431.D
 Acq On : 3 Mar 2016 20:22
 Operator : UM/IZ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 04 07:50:35 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 06:35:39 2016
 Response via : Initial Calibration

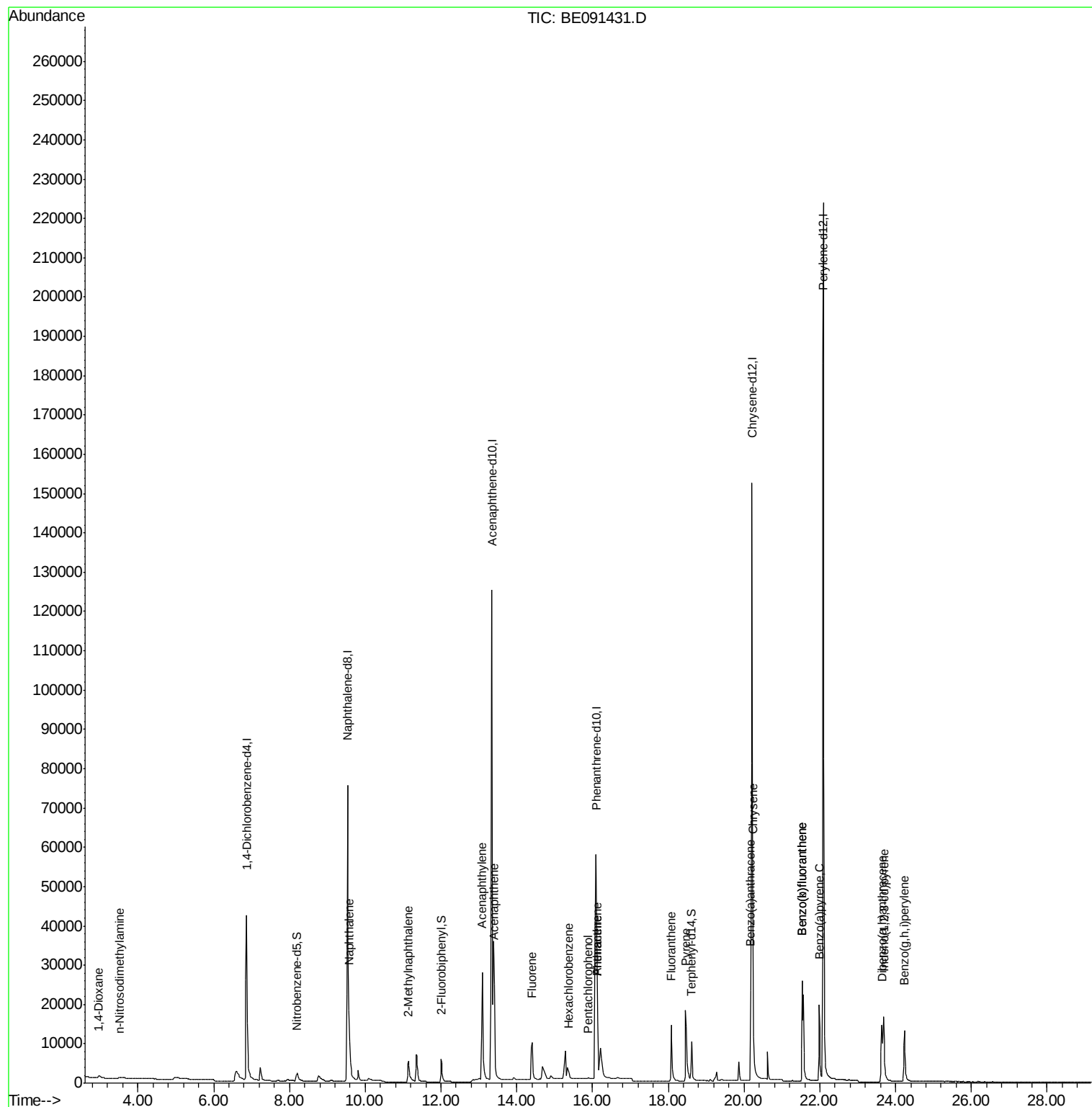
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	31089	5.00	ng	0.00
4) Naphthalene-d8	9.53	136	145071	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	86996	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	137322	5.00	ng	0.00
19) Chrysene-d12	20.21	240	237670	5.00	ng	0.00
25) Perylene-d12	22.09	264	272786	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.18	82	2775	0.40	ng	0.00
9) 2-Fluorobiphenyl	12.00	172	8351	0.40	ng	0.00
21) Terphenyl-d14	18.61	244	14396	0.40	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	1096	0.40	ng	87
3) n-Nitrosodimethylamine	3.52	42	1001	0.42	ng	# 89
6) Naphthalene	9.57	128	14418	0.43	ng	100
7) 2-Methylnaphthalene	11.14	142	9527	0.48	ng	97
10) Acenaphthylene	13.09	152	52960	0.36	ng	100
11) Acenaphthene	13.41	154	10053	0.38	ng	# 100
12) Fluorene	14.41	166	12026	0.36	ng	# 12
14) Hexachlorobenzene	15.38	284	2731	0.34	ng	# 100
15) Pentachlorophenol	15.89	266	342	0.63	ng	96
16) Phenanthrene	16.13	178	19344	0.40	ng	99
17) Anthracene	16.13	178	33305	0.47	ng	# 71
18) Fluoranthene	18.07	202	24200	0.37	ng	99
20) Pyrene	18.46	202	25892	0.38	ng	99
22) Benzo(a)anthracene	20.17	228	28374	0.35	ng	99
23) Chrysene	20.23	228	36198	0.41	ng	100
24) Indeno(1,2,3-cd)pyrene	23.69	276	30858	0.43	ng	93
26) Benzo(b)fluoranthene	21.53	252	57301	0.75	ng	99
27) Benzo(k)fluoranthene	21.53	252	57714	0.78	ng	95
28) Benzo(a)pyrene	21.99	252	24972	0.38	ng	99
29) Dibenzo(a,h)anthracene	23.64	278	23943	0.38	ng	99
30) Benzo(g,h,i)perylene	24.23	276	26437	0.39	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: 6.87 min Scan# 246

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

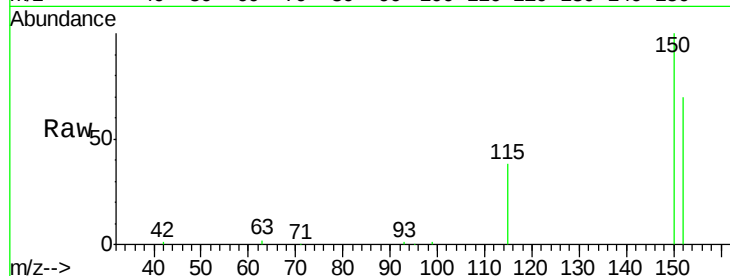
Tgt Ion:152 Resp: 31089

Ion Ratio Lower Upper

152 100

150 143.8 115.0 172.4

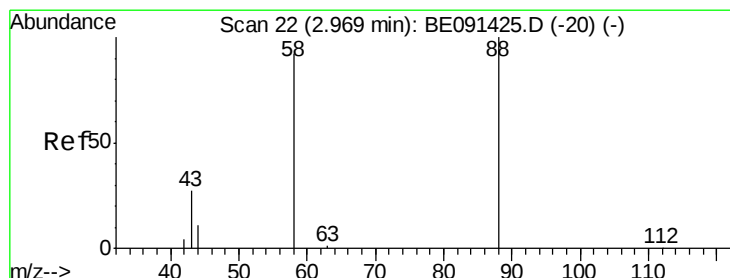
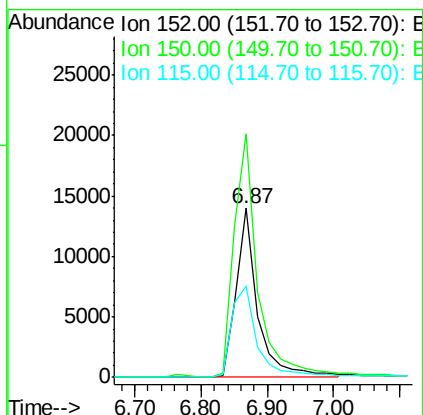
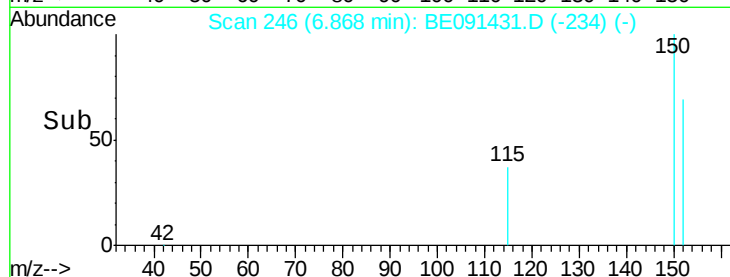
115 54.1 42.2 63.4



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: 0.40 ng

RT: 2.97 min Scan# 22

Delta R.T. -0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

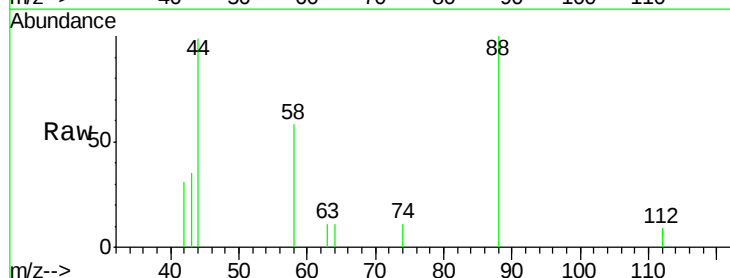
Tgt Ion: 88 Resp: 1096

Ion Ratio Lower Upper

88 100

58 104.7 97.9 146.9

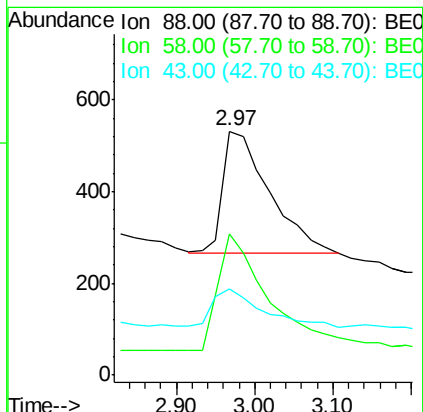
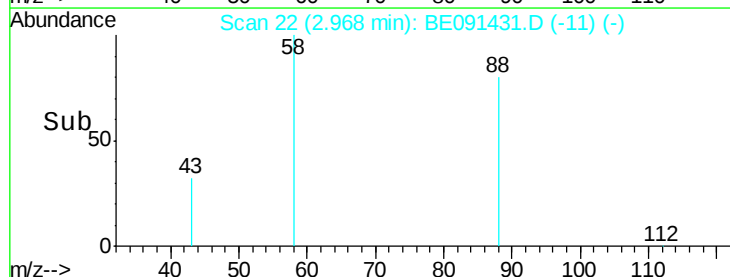
43 33.6 29.0 43.4

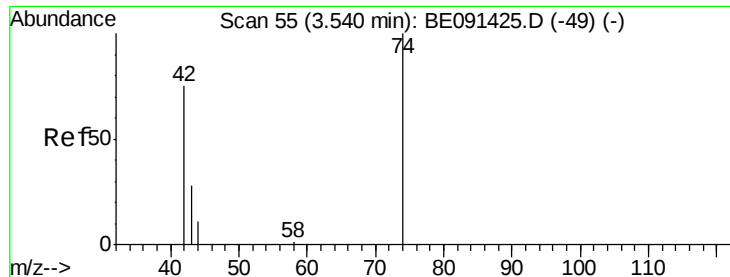


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.42 ng

RT: 3.52 min Scan# 54

Delta R.T. -0.02 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

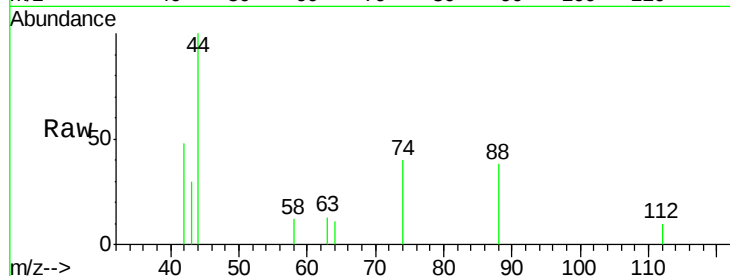
Tgt Ion: 42 Resp: 1001

Ion Ratio Lower Upper

42 100

74 129.2 93.8 140.6

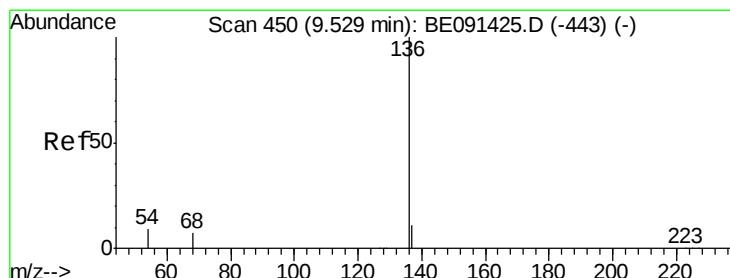
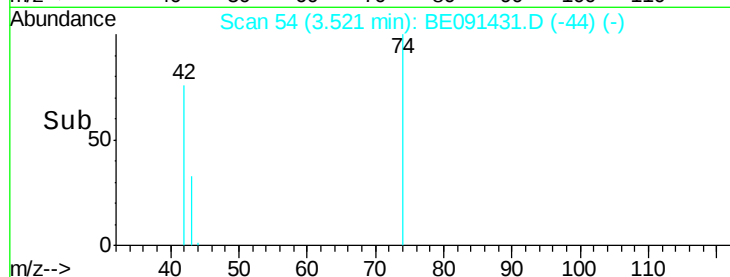
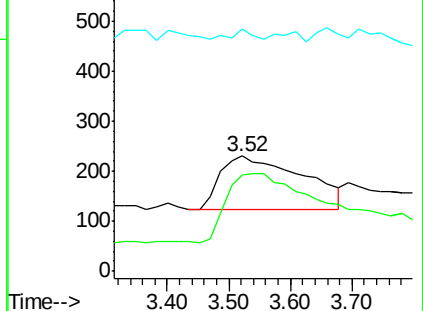
44 4.3 0.0 0.0#



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: 9.53 min Scan# 450

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

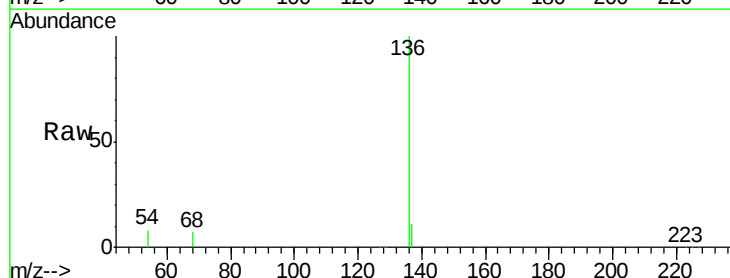
Tgt Ion: 136 Resp: 145071

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

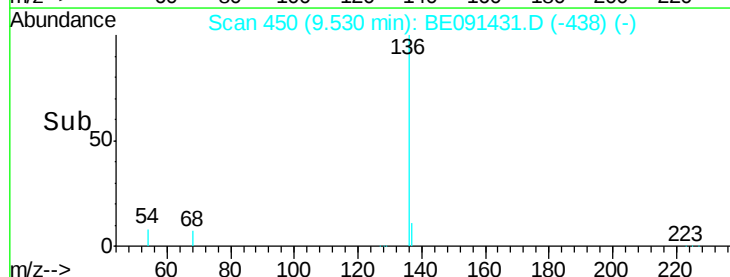
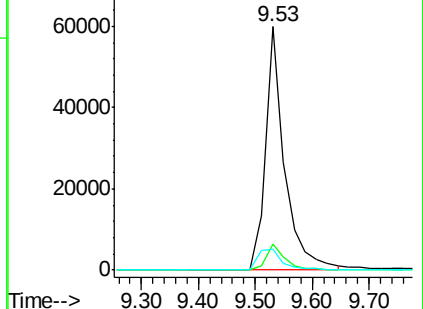
54 8.5 6.9 10.3

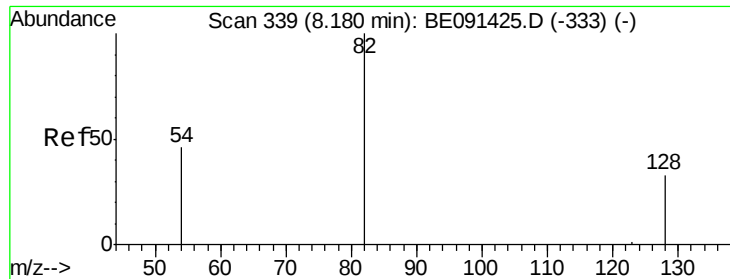


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.40 ng

RT: 8.18 min Scan# 339

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

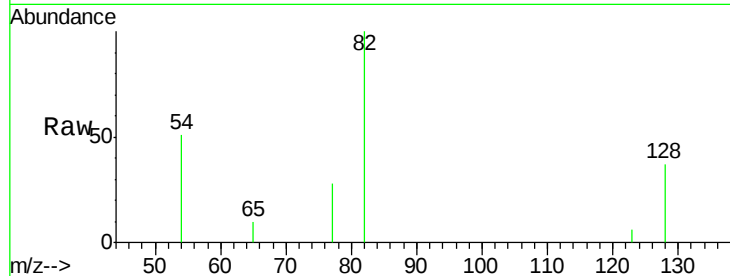
Tgt Ion: 82 Resp: 2775

Ion Ratio Lower Upper

82 100

128 36.7 30.0 45.0

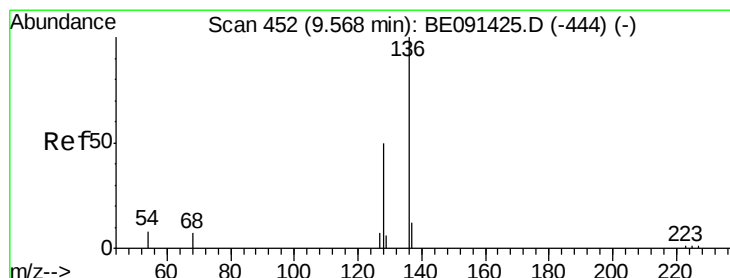
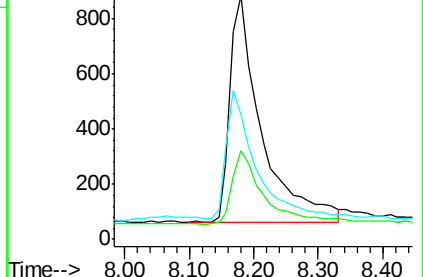
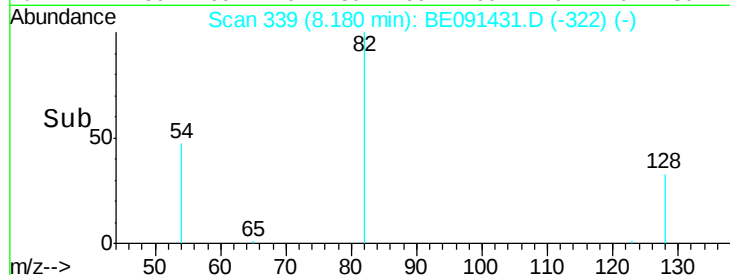
54 51.2 41.5 62.3



Abundance Ion 82.00 (81.70 to 82.70): BE091431.D (-322) (-)

Ion 128.00 (127.70 to 128.70): BE091431.D (-322) (-)

Ion 54.00 (53.70 to 54.70): BE091431.D (-322) (-)



#6

Naphthalene

Concen: 0.43 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

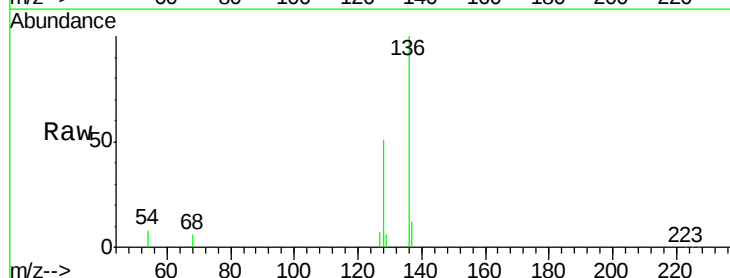
Tgt Ion: 128 Resp: 14418

Ion Ratio Lower Upper

128 100

129 11.7 9.5 14.3

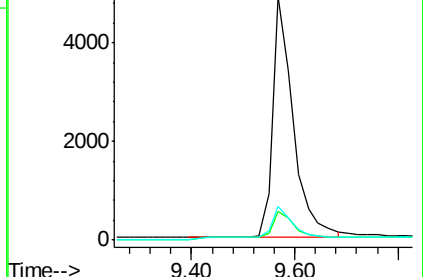
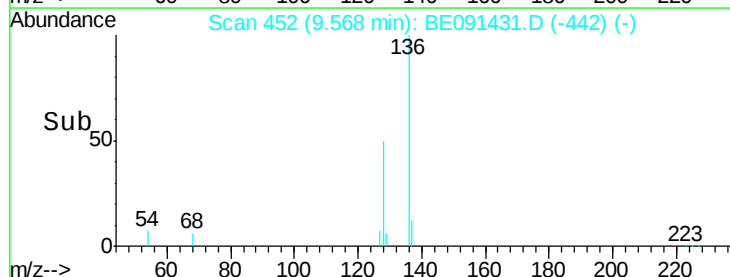
127 14.0 11.4 17.0

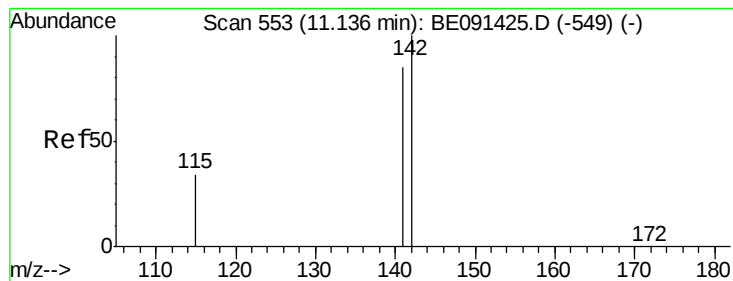


Abundance Ion 128.00 (127.70 to 128.70): BE091431.D (-442) (-)

Ion 129.00 (128.70 to 129.70): BE091431.D (-442) (-)

Ion 127.00 (126.70 to 127.70): BE091431.D (-442) (-)





#7

2-Methylnaphthalene

Concen: 0.48 ng

RT: 11.14 min Scan# 553

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

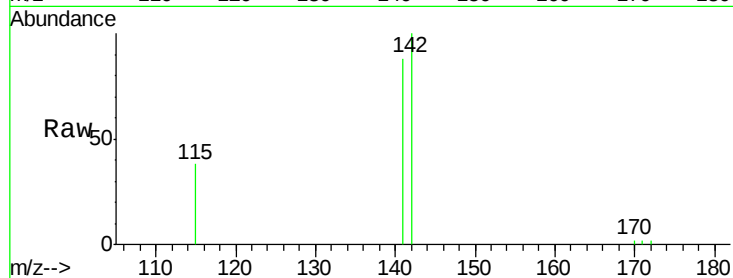
Tgt Ion:142 Resp: 9527

Ion Ratio Lower Upper

142 100

141 87.7 68.3 102.5

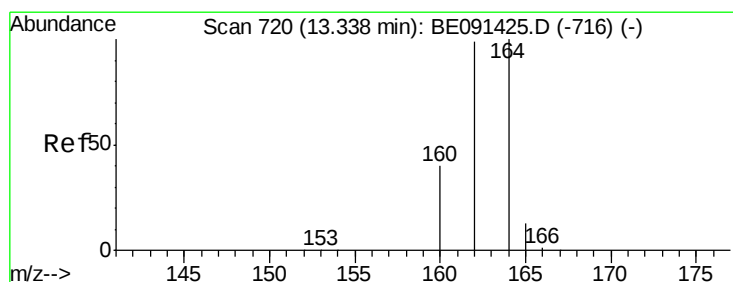
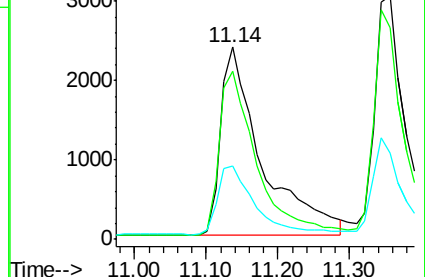
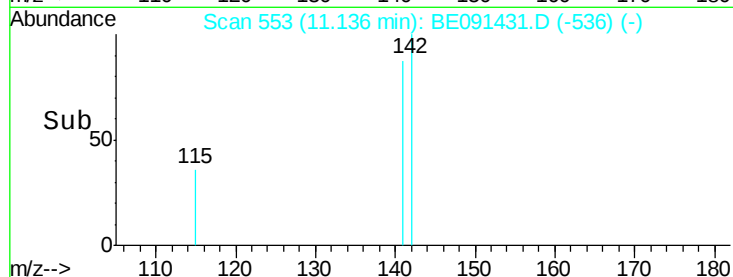
115 37.9 28.9 43.3



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: 13.34 min Scan# 720

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

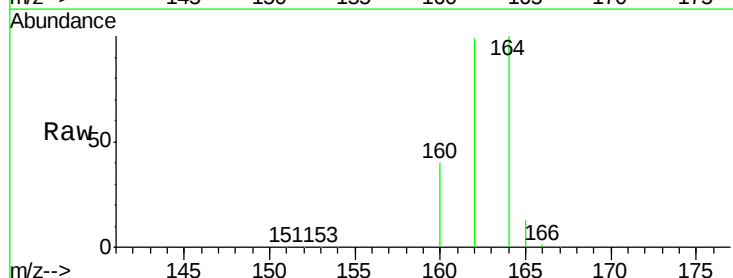
Tgt Ion:164 Resp: 86996

Ion Ratio Lower Upper

164 100

162 98.8 79.1 118.7

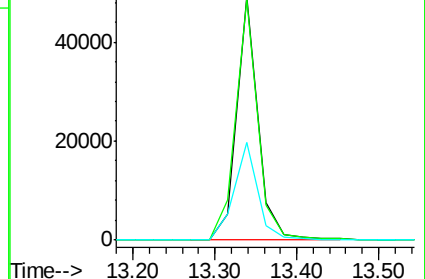
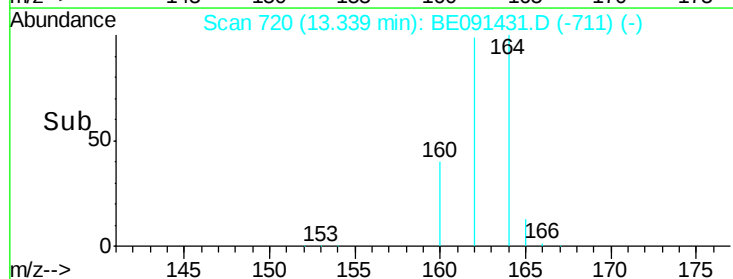
160 40.1 32.4 48.6

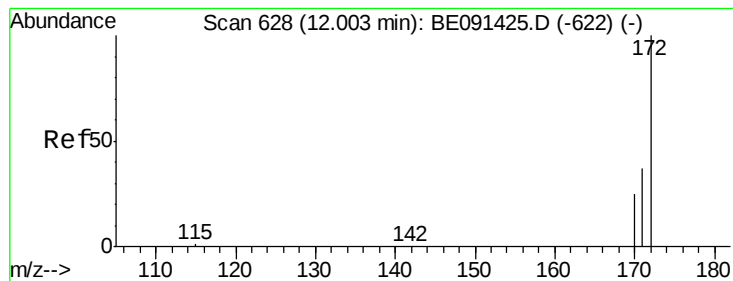


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.40 ng

RT: 12.00 min Scan# 628

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

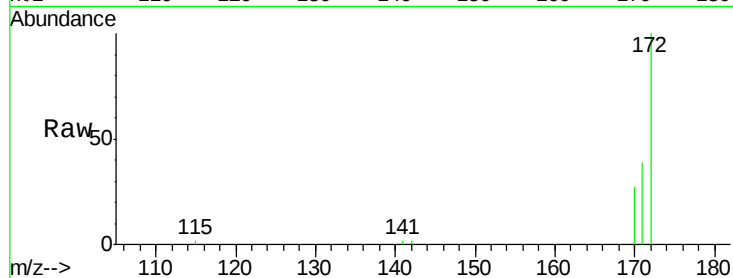
Tgt Ion:172 Resp: 8351

Ion Ratio Lower Upper

172 100

171 39.0 30.2 45.4

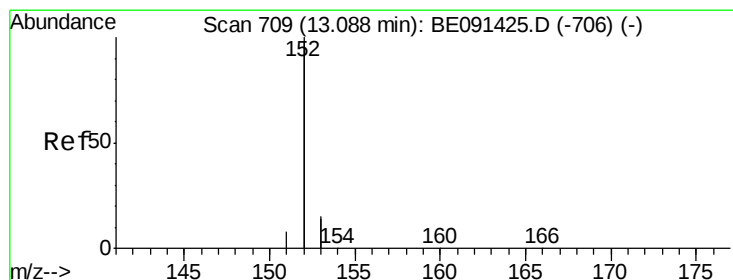
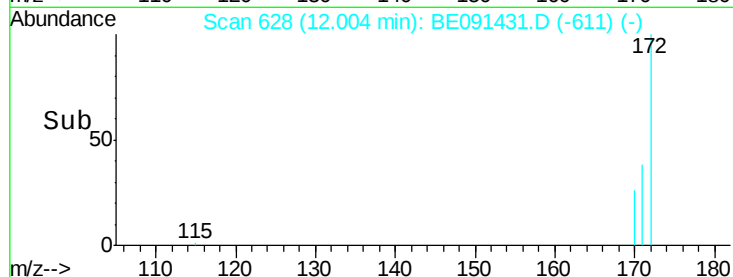
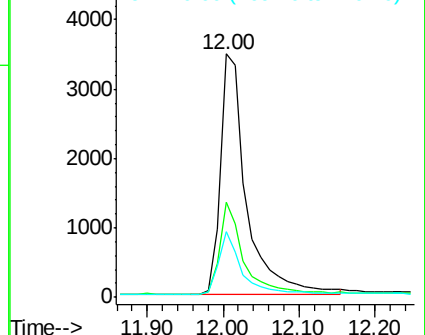
170 27.2 20.9 31.3



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: 0.36 ng

RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

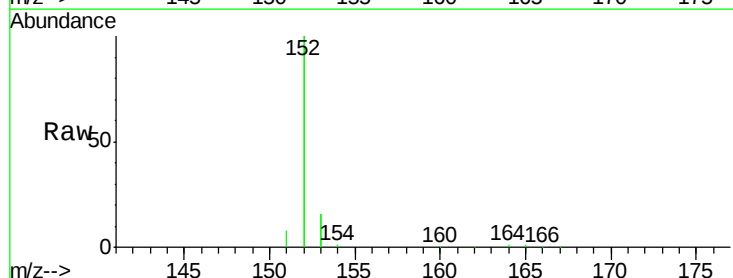
Tgt Ion:152 Resp: 52960

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

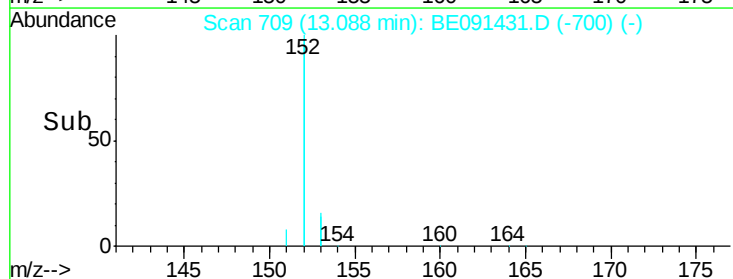
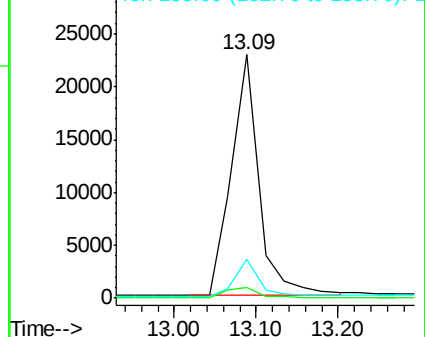
153 13.3 10.5 15.7

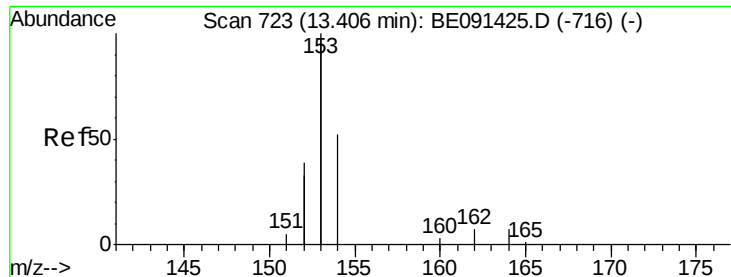


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

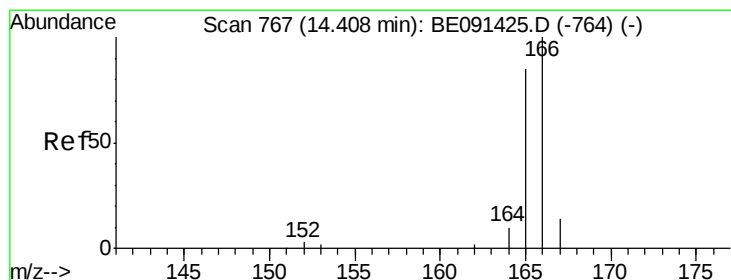
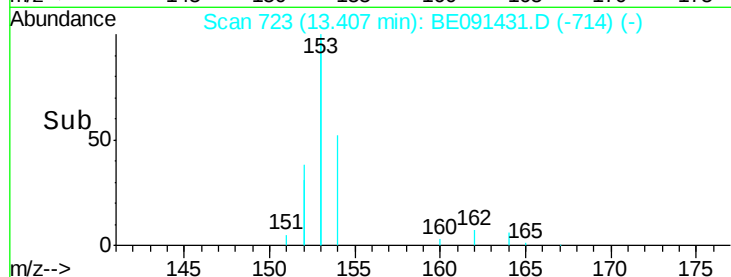
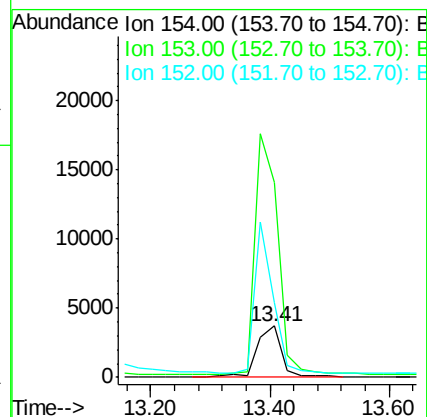
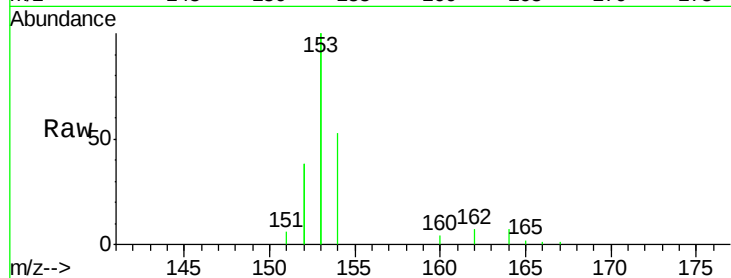




#11
Acenaphthene
Concen: 0.38 ng
RT: 13.41 min Scan# 723
Delta R.T. 0.00 min
Lab File: BE091431.D
Acq: 3 Mar 2016 20:22

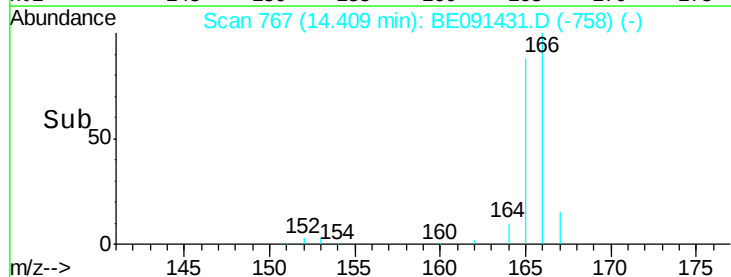
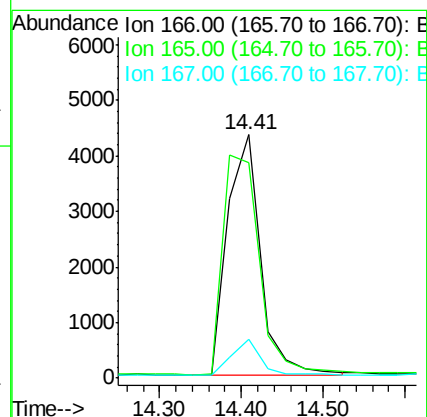
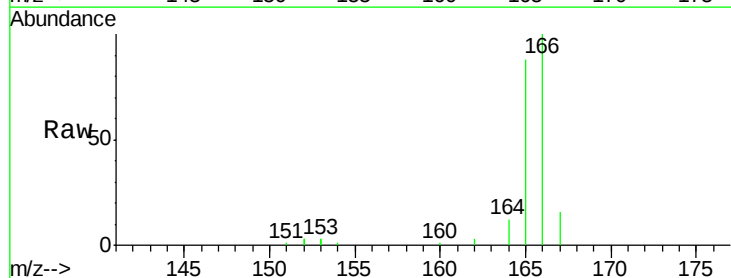
Instrument :
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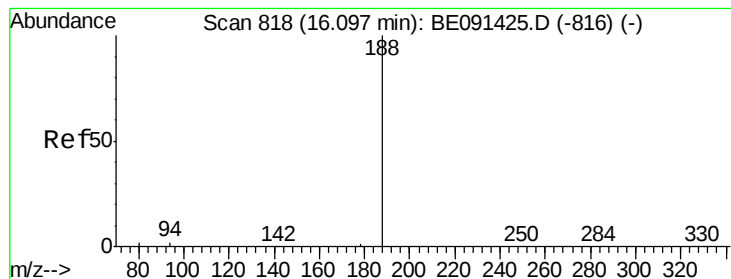
Tgt Ion:154 Resp: 10053
Ion Ratio Lower Upper
154 100
153 0.0 0.0 0.0
152 0.0 0.0 0.0



#12
Fluorene
Concen: 0.36 ng
RT: 14.41 min Scan# 767
Delta R.T. 0.00 min
Lab File: BE091431.D
Acq: 3 Mar 2016 20:22

Tgt Ion:166 Resp: 12026
Ion Ratio Lower Upper
166 100
165 0.0 79.4 119.2#
167 13.4 10.7 16.1





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.10 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

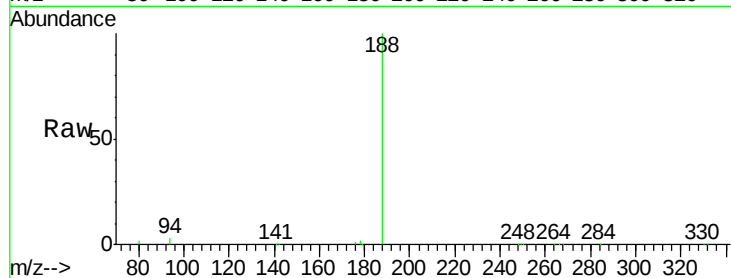
Tgt Ion:188 Resp: 137322

Ion Ratio Lower Upper

188 100

94 2.6 2.1 3.1

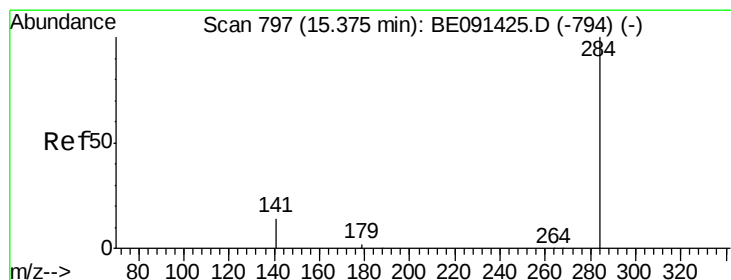
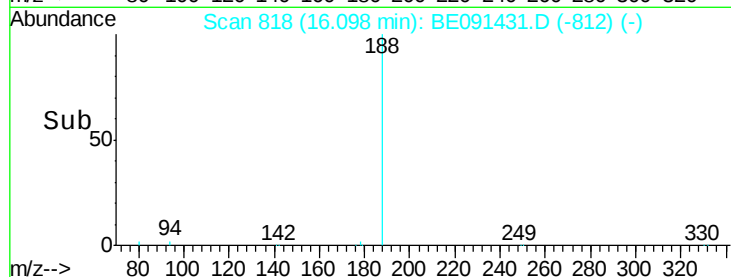
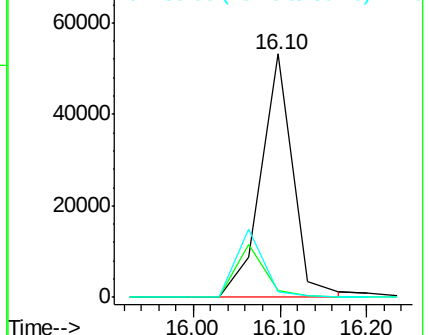
80 2.4 1.9 2.9



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: 0.34 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

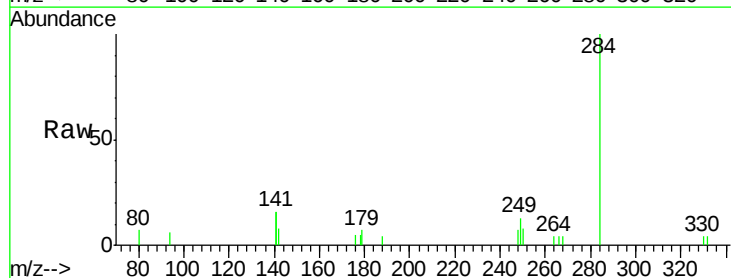
Tgt Ion:284 Resp: 2731

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

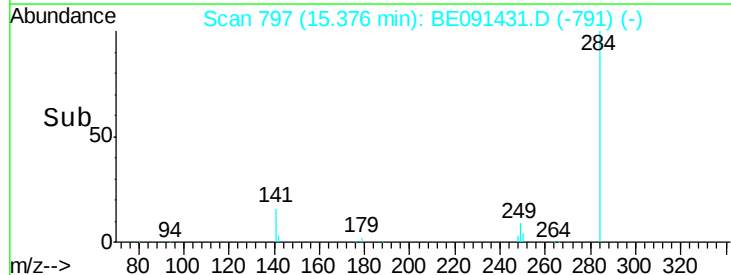
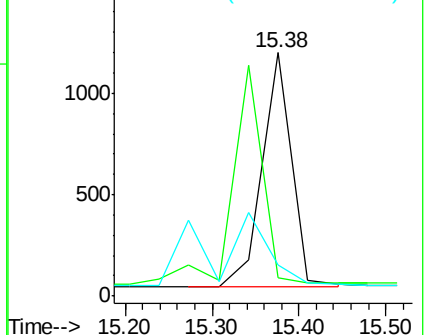
249 0.0 0.0 0.0

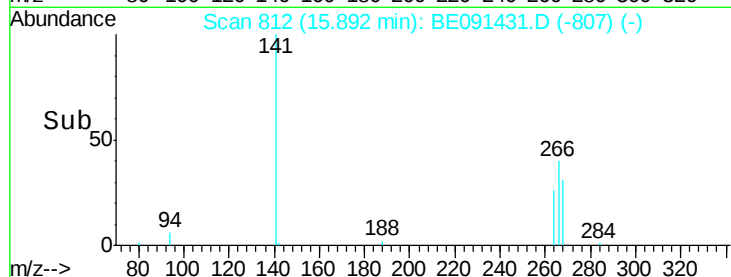
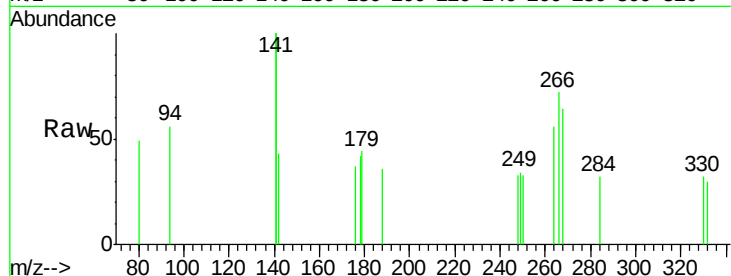
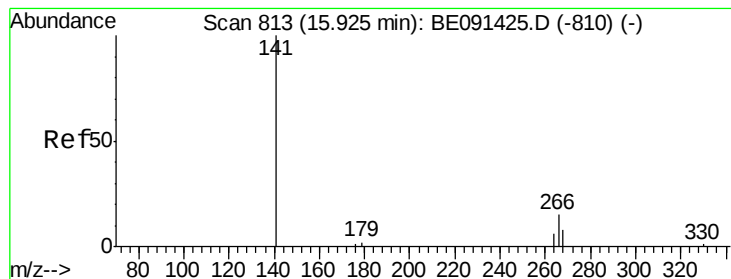


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 0.63 ng

RT: 15.89 min Scan# 812

Delta R.T. -0.03 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

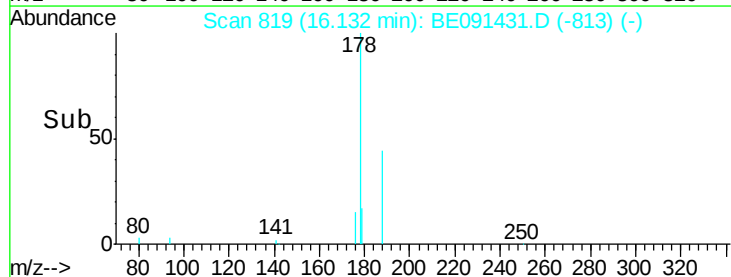
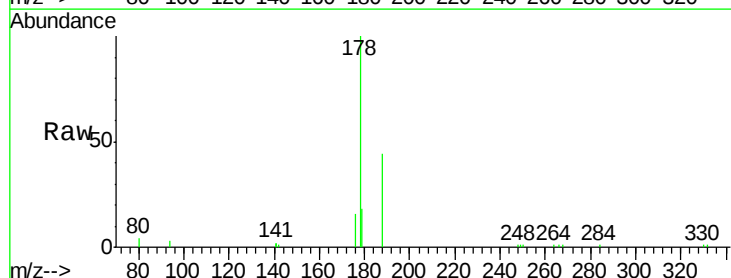
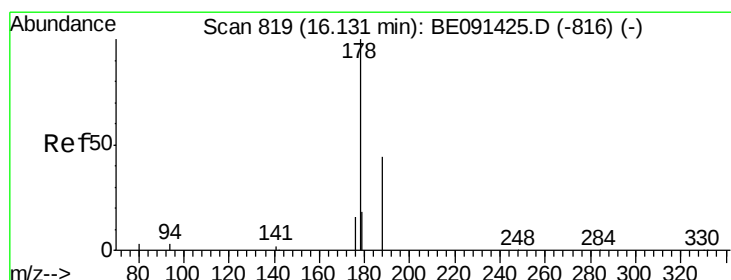
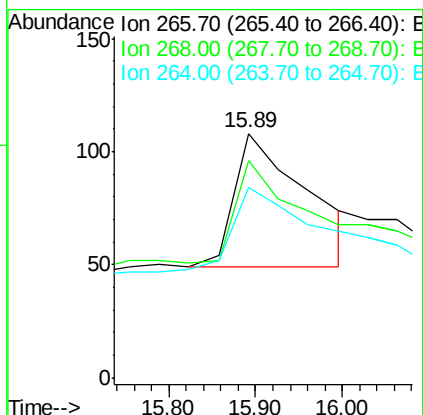
Tgt Ion:266 Resp: 342

Ion Ratio Lower Upper

266 100

268 88.9 73.0 109.6

264 77.8 66.1 99.1



#16

Phenanthrene

Concen: 0.40 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

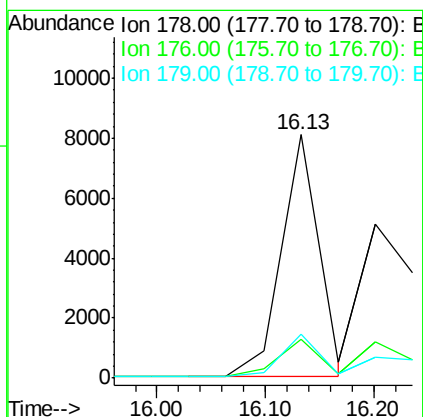
Tgt Ion:178 Resp: 19344

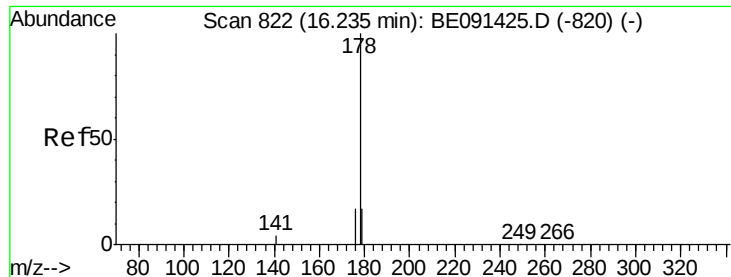
Ion Ratio Lower Upper

178 100

176 16.8 13.8 20.8

179 17.0 14.2 21.4

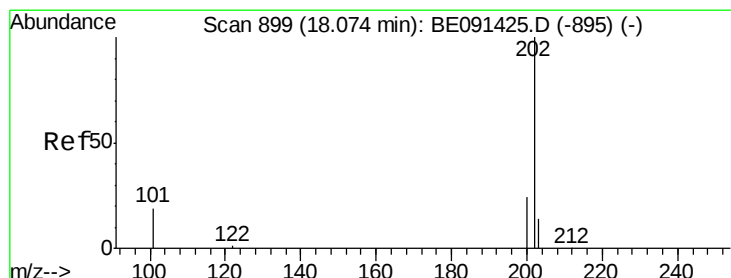
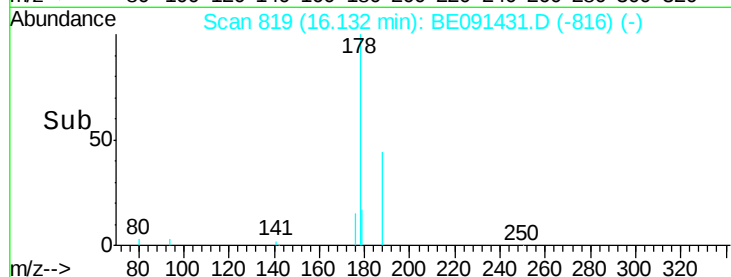
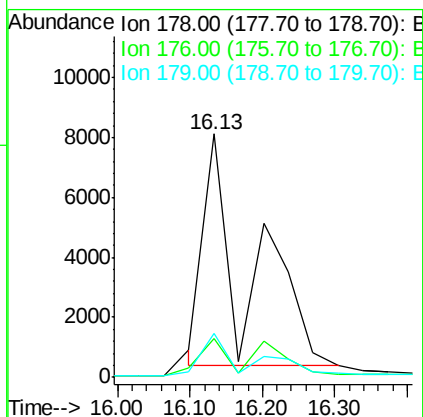
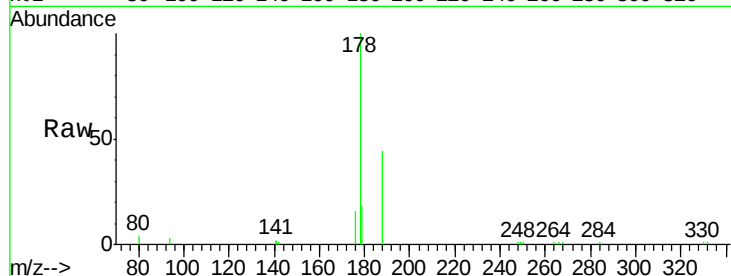




#17
 Anthracene
 Concen: 0.47 ng
 RT: 16.13 min Scan# 819
 Delta R.T. -0.10 min
 Lab File: BE091431.D
 Acq: 3 Mar 2016 20:22

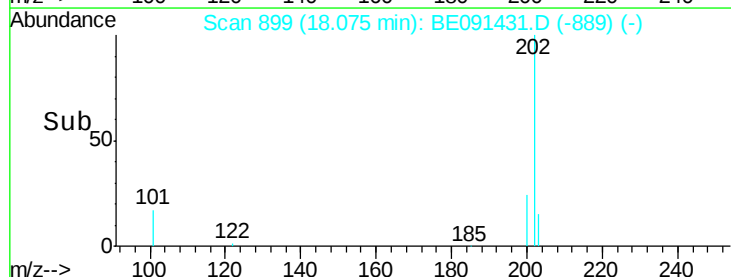
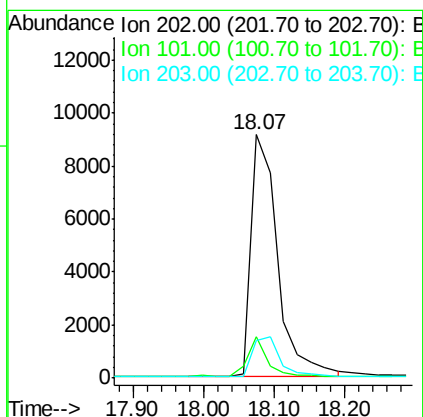
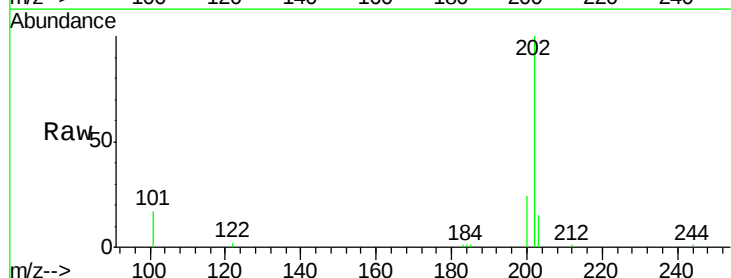
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

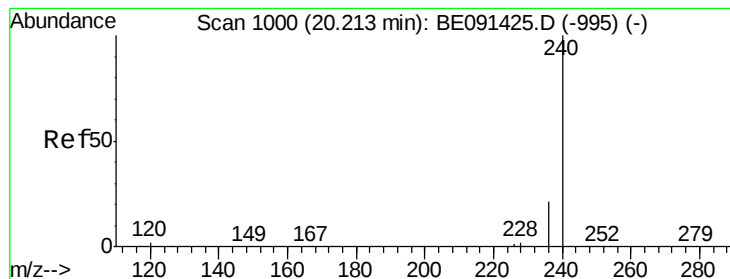
Tgt Ion:178 Resp: 33305
 Ion Ratio Lower Upper
 178 100
 176 7.2 24.4 36.6#
 179 15.4 14.8 22.2



#18
 Fluoranthene
 Concen: 0.37 ng
 RT: 18.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: BE091431.D
 Acq: 3 Mar 2016 20:22

Tgt Ion:202 Resp: 24200
 Ion Ratio Lower Upper
 202 100
 101 12.9 11.0 16.6
 203 17.4 13.7 20.5





#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

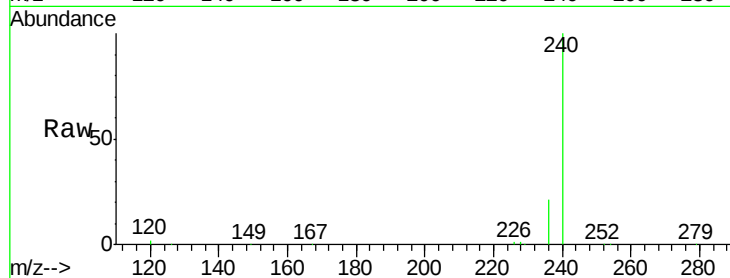
Tgt Ion:240 Resp: 237670

Ion Ratio Lower Upper

240 100

120 1.8 1.4 2.0

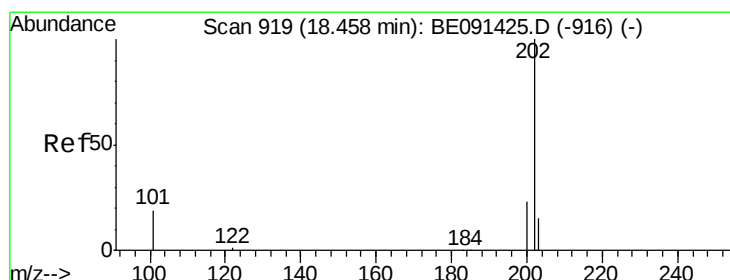
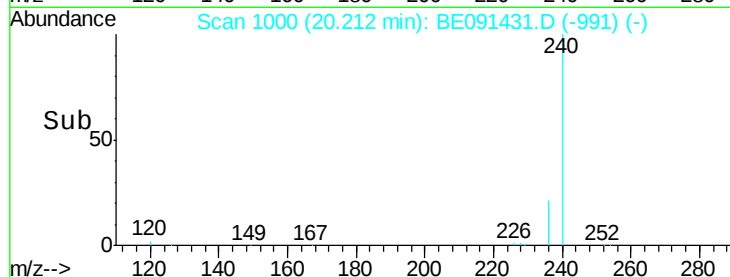
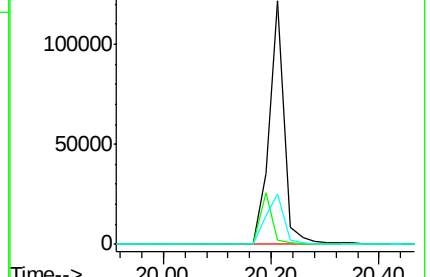
236 20.8 16.7 25.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.38 ng

RT: 18.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

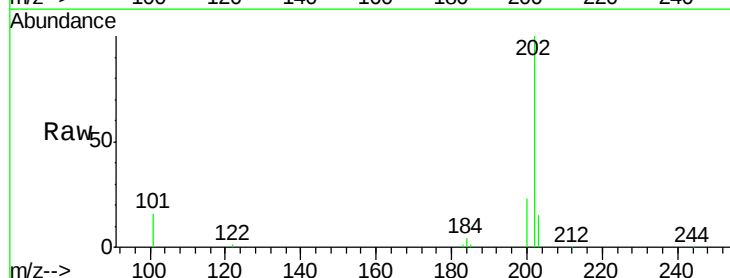
Tgt Ion:202 Resp: 25892

Ion Ratio Lower Upper

202 100

200 21.1 16.5 24.7

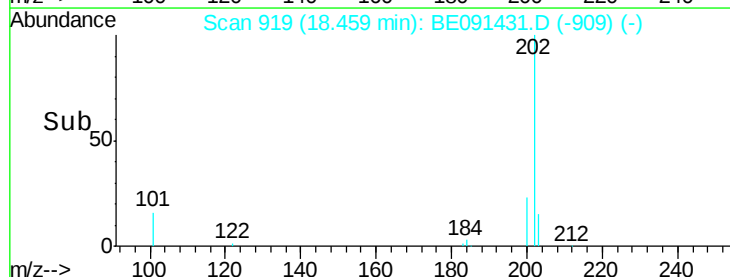
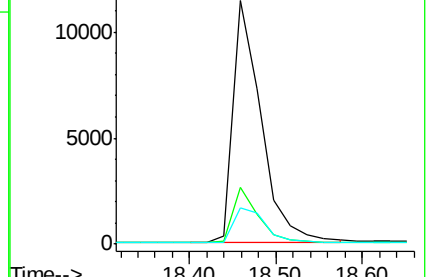
203 16.9 13.8 20.6

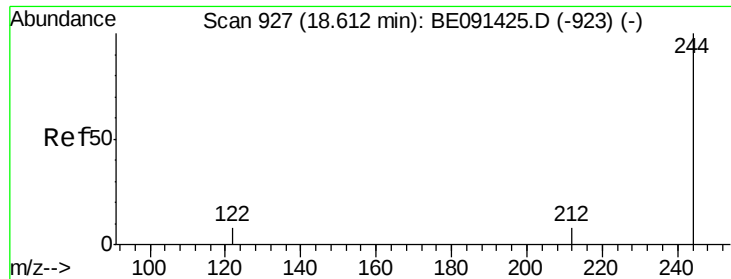


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

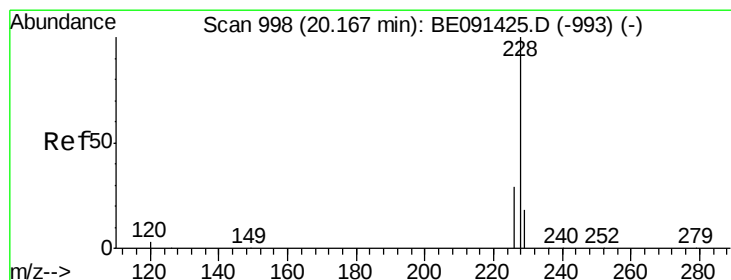
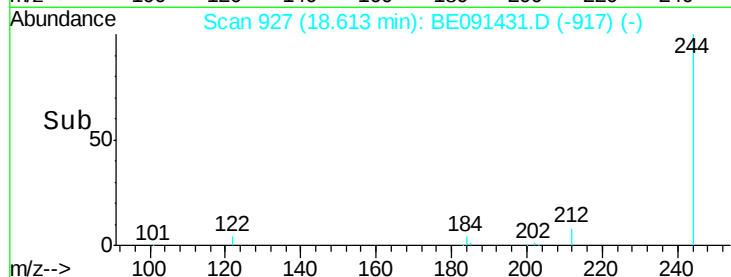
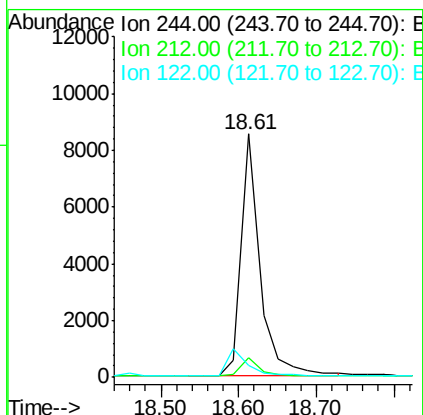
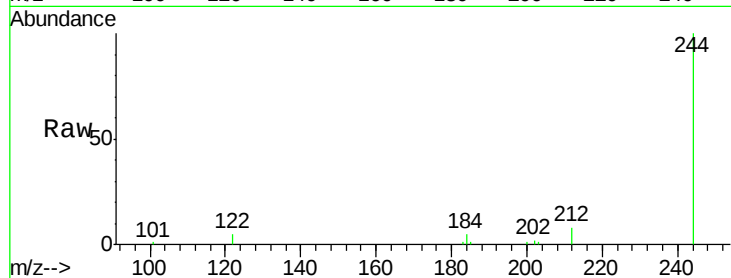




#21
 Terphenyl-d14
 Concen: 0.40 ng
 RT: 18.61 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: BE091431.D
 Acq: 3 Mar 2016 20:22

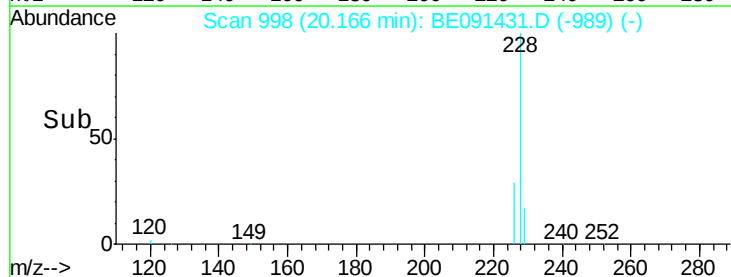
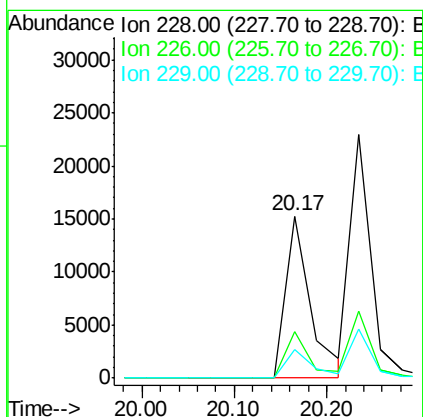
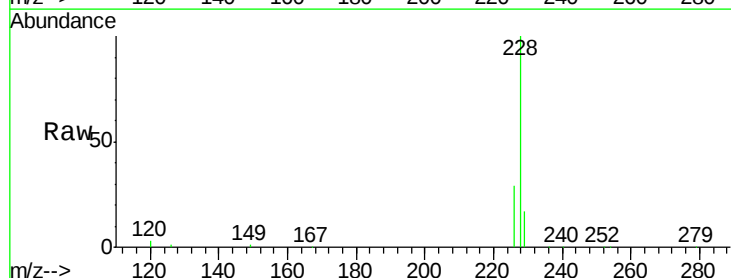
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

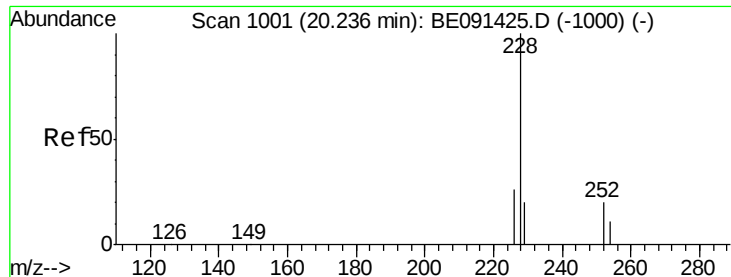
Tgt Ion:244 Resp: 14396
 Ion Ratio Lower Upper
 244 100
 212 8.0 7.0 10.6
 122 4.9 6.8 10.2#



#22
 Benzo(a)anthracene
 Concen: 0.35 ng
 RT: 20.17 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: BE091431.D
 Acq: 3 Mar 2016 20:22

Tgt Ion:228 Resp: 28374
 Ion Ratio Lower Upper
 228 100
 226 28.9 23.1 34.7
 229 17.3 14.5 21.7

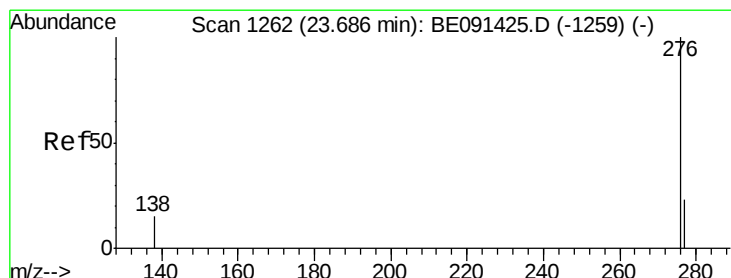
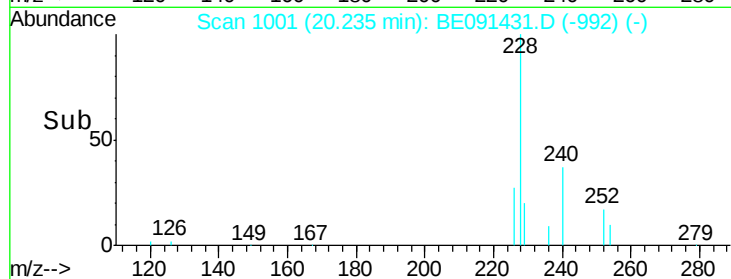
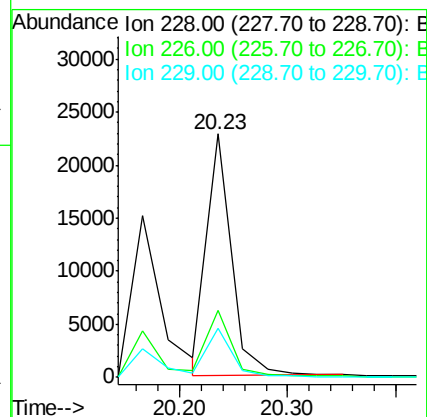
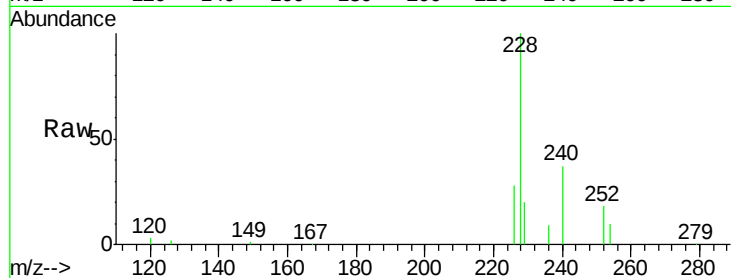




#23
Chrysene
Concen: 0.41 ng
RT: 20.23 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091431.D
Acq: 3 Mar 2016 20:22

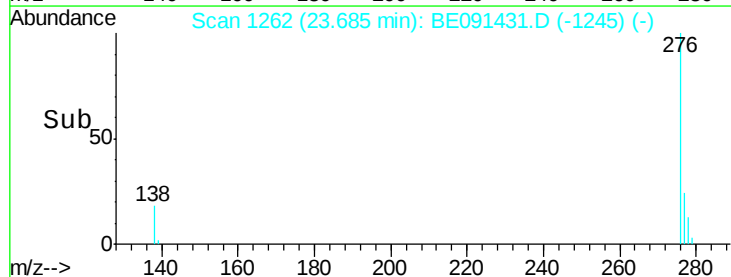
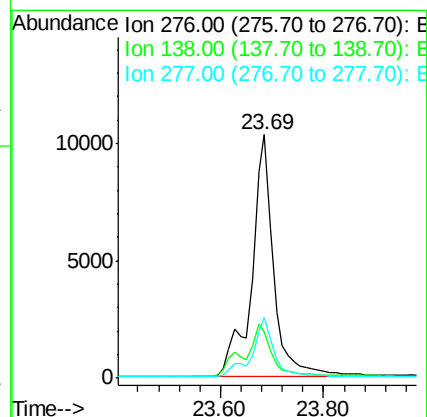
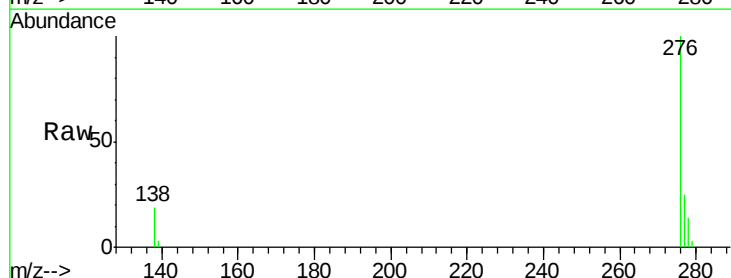
Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

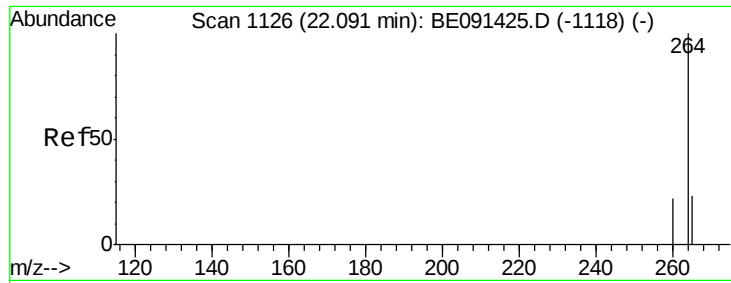
Tgt Ion: 228 Resp: 36198
Ion Ratio Lower Upper
228 100
226 27.6 22.0 33.0
229 20.1 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.43 ng
RT: 23.69 min Scan# 1262
Delta R.T. -0.00 min
Lab File: BE091431.D
Acq: 3 Mar 2016 20:22

Tgt Ion: 276 Resp: 30858
Ion Ratio Lower Upper
276 100
138 17.3 16.1 24.1
277 24.9 22.9 34.3



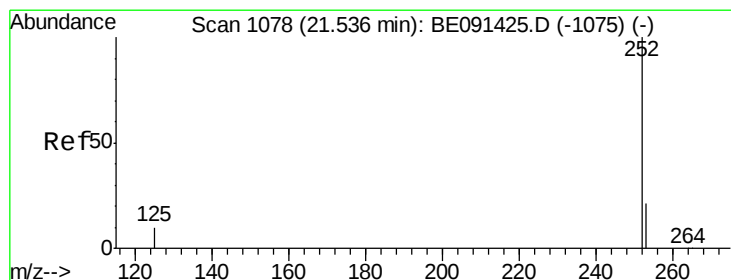
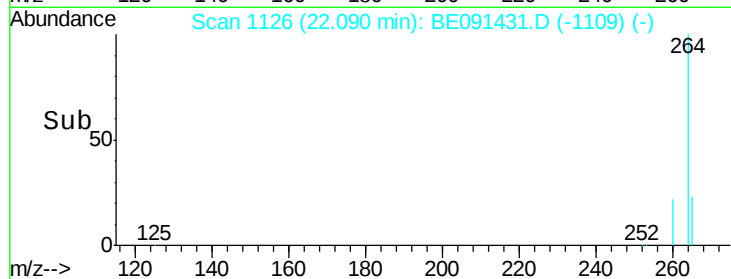
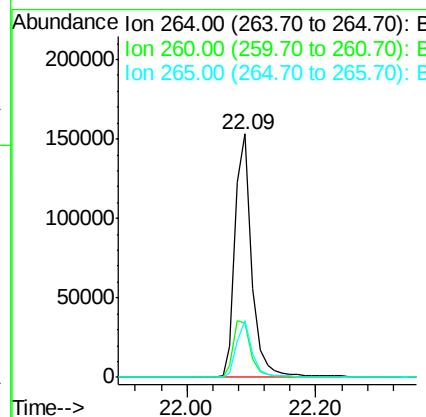
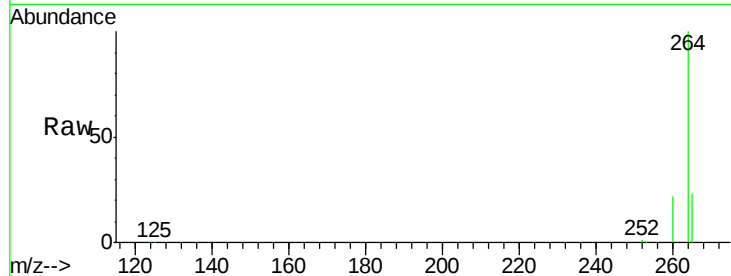


#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BE091431.D
Acq: 3 Mar 2016 20:22

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 264 Resp: 272786

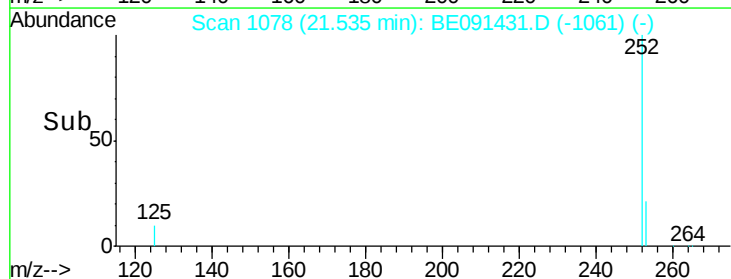
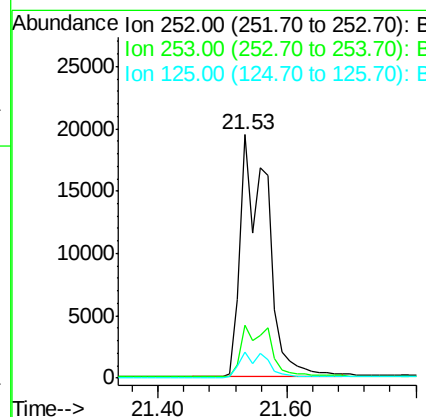
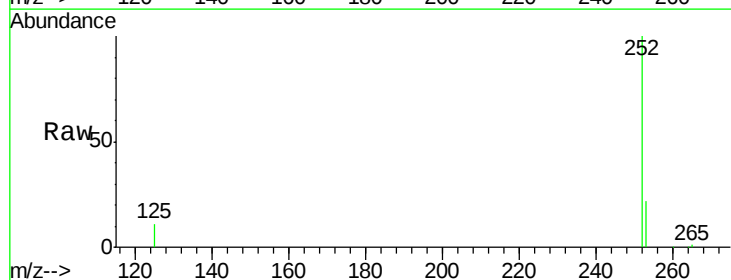
Ion	Ratio	Lower	Upper
264	100		
260	22.1	18.0	27.0
265	23.2	18.2	27.4

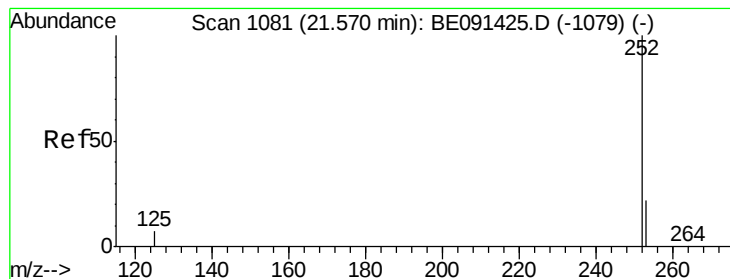


#26
Benzo(b)fluoranthene
Concen: 0.75 ng
RT: 21.53 min Scan# 1078
Delta R.T. -0.00 min
Lab File: BE091431.D
Acq: 3 Mar 2016 20:22

Tgt Ion: 252 Resp: 57301

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.0	25.4
125	10.8	8.3	12.5





#27

Benzo(k)fluoranthene

Concen: 0.78 ng

RT: 21.53 min Scan# 1078

Delta R.T. -0.04 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

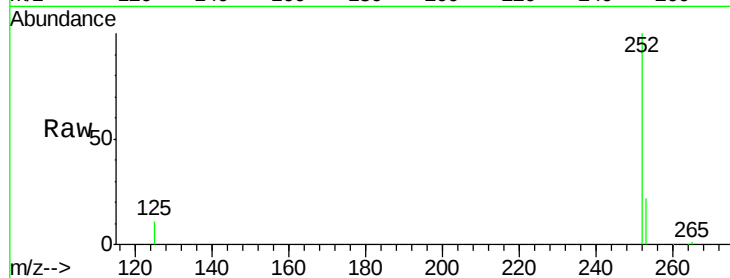
Tgt Ion:252 Resp: 57714

Ion Ratio Lower Upper

252 100

253 21.6 19.5 29.3

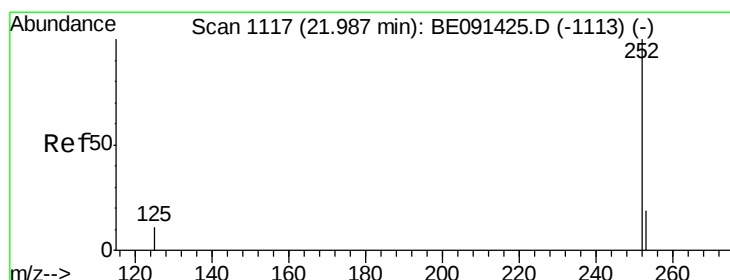
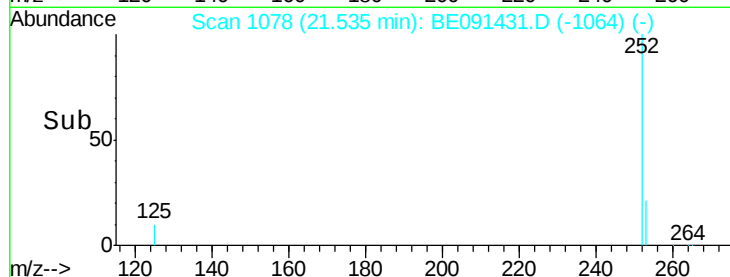
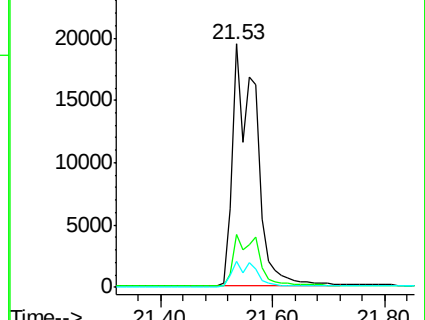
125 10.8 7.3 10.9



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



#28

Benzo(a)pyrene

Concen: 0.38 ng

RT: 21.99 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

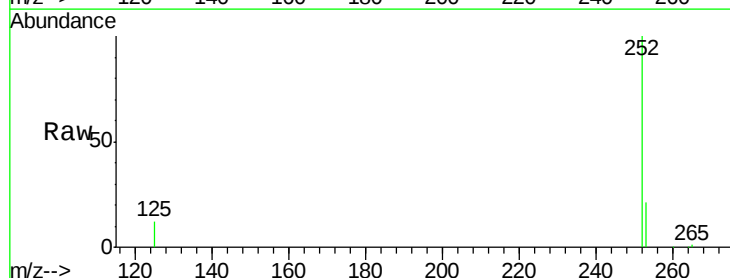
Tgt Ion:252 Resp: 24972

Ion Ratio Lower Upper

252 100

253 20.7 16.2 24.4

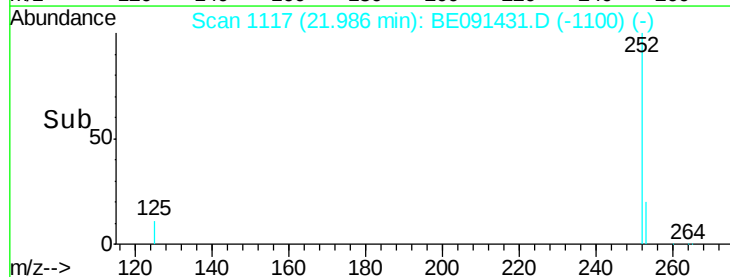
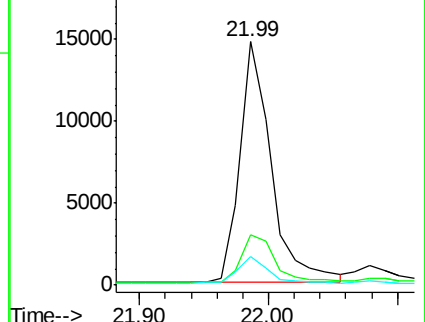
125 11.9 9.6 14.4

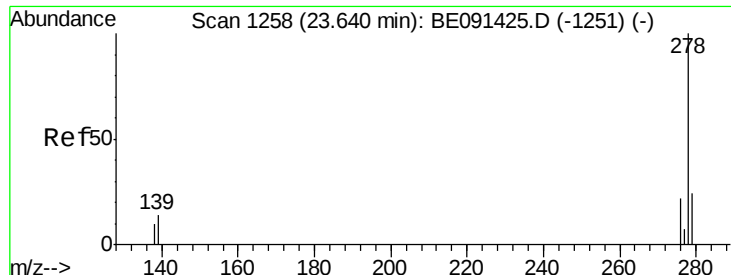


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.38 ng

RT: 23.64 min Scan# 1258

Delta R.T. -0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

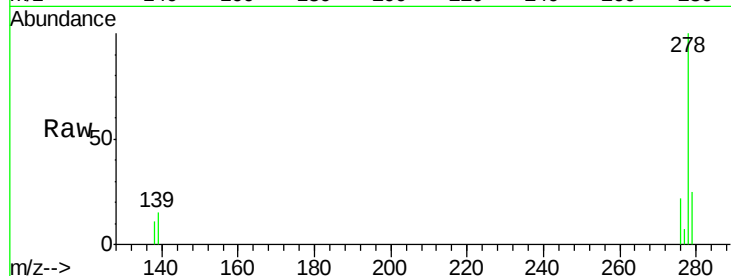
Tgt Ion: 278 Resp: 23943

Ion Ratio Lower Upper

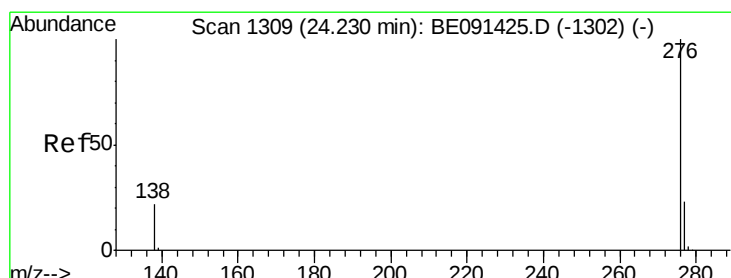
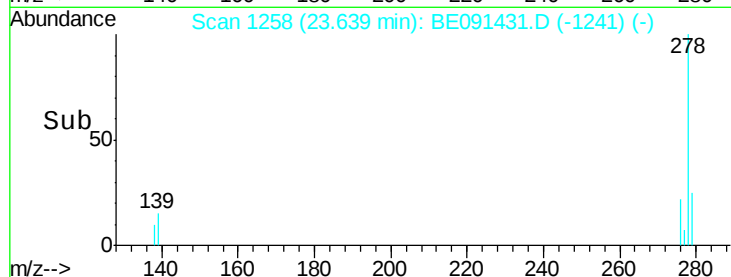
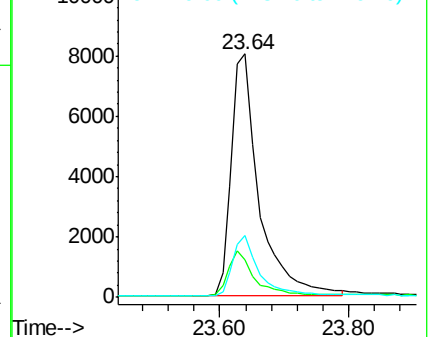
278 100

139 15.3 12.1 18.1

279 25.2 19.4 29.0



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: 0.39 ng

RT: 24.23 min Scan# 1309

Delta R.T. -0.00 min

Lab File: BE091431.D

Acq: 3 Mar 2016 20:22

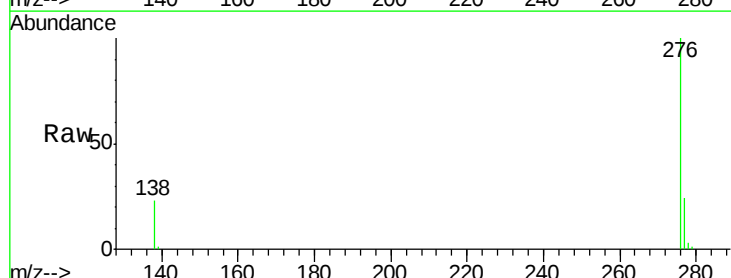
Tgt Ion: 276 Resp: 26437

Ion Ratio Lower Upper

276 100

277 23.5 19.0 28.6

138 23.3 18.2 27.4



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

