

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021715\
 Data File : BE089588.D
 Acq On : 17 Feb 2015 4:17
 Operator : TP/IZ
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 17 10:55:09 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

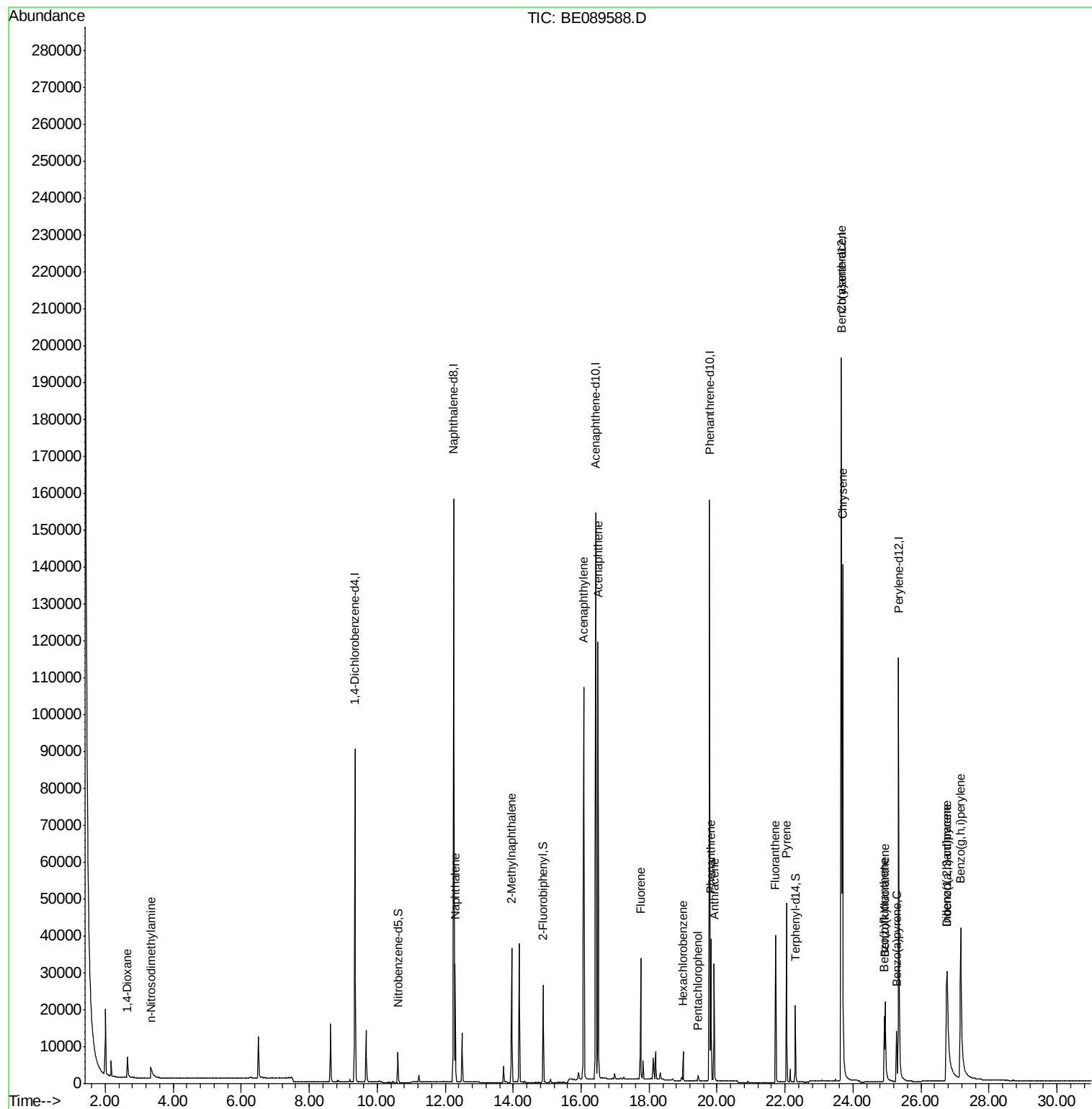
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	38471	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	174857	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	89893	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	154628	5.00	ng	0.00
19) Chrysene-d12	23.66	240	129714	5.00	ng	0.00
25) Perylene-d12	25.34	264	111124	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	6031	0.76	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	22671	0.79	ng	0.00
21) Terphenyl-d14	22.31	244	19809	0.82	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.65	88	4171	0.80	ng	94
3) n-Nitrosodimethylamine	3.34	42	4265	0.82	ng	# 98
6) Naphthalene	12.30	128	35505	0.81	ng	100
7) 2-Methylnaphthalene	13.95	142	22797	0.81	ng	99
10) Acenaphthylene	16.07	152	135499	0.79	ng	100
11) Acenaphthene	16.50	154	21790	0.78	ng	100
12) Fluorene	17.75	166	24121	0.77	ng	99
14) Hexachlorobenzene	19.00	284	6449	0.74	ng	99
15) Pentachlorophenol	19.44	266	1555	0.61	ng	97
16) Phenanthrene	19.82	178	35715	0.77	ng	100
17) Anthracene	19.91	178	29324	0.77	ng	100
18) Fluoranthene	21.72	202	29751	0.77	ng	100
20) Pyrene	22.04	202	32002	0.78	ng	100
22) Benzo(a)anthracene	23.65	228	108500	0.81	ng	99
23) Chrysene	23.69	228	122026	0.77	ng	98
24) Indeno(1,2,3-cd)pyrene	26.75	276	91996	0.79	ng	100
26) Benzo(b)fluoranthene	24.92	252	17704	0.79	ng	98
27) Benzo(k)fluoranthene	24.94	252	30757	0.84	ng	99
28) Benzo(a)pyrene	25.28	252	17019	0.78	ng	100
29) Dibenzo(a,h)anthracene	26.77	278	17860	0.80	ng	99
30) Benzo(g,h,i)perylene	27.17	276	86999	0.80	ng	100

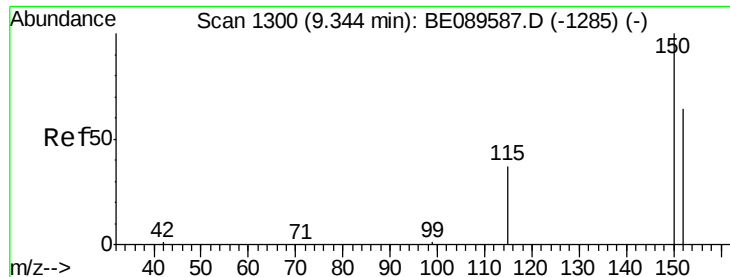
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampled :

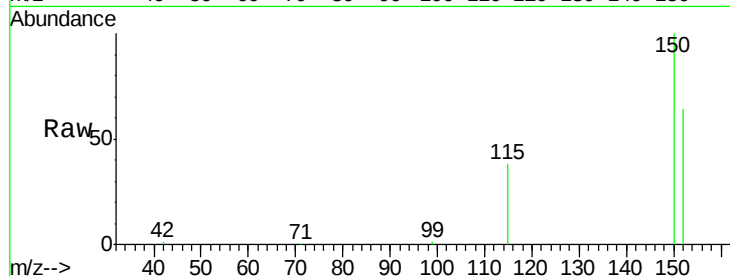
Tot Ion:152 Resp: 38471

Ion Ratio Lower Upper

152 100

150 155.6 125.3 187.9

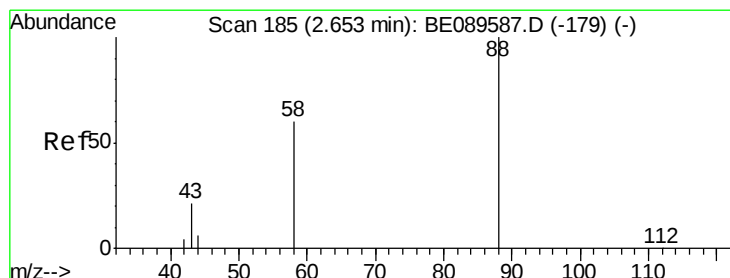
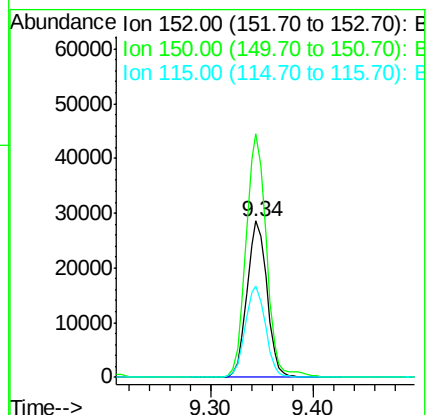
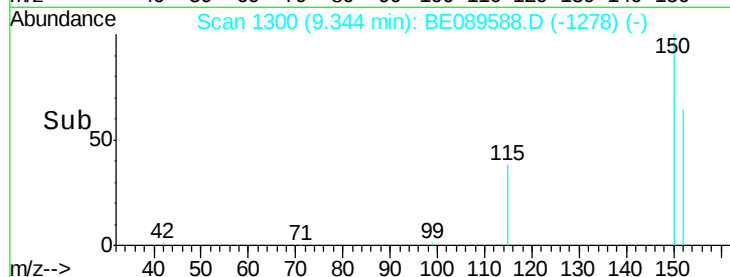
115 58.6 47.0 70.4



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: 0.80 ng

RT: 2.65 min Scan# 184

Delta R.T. -0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

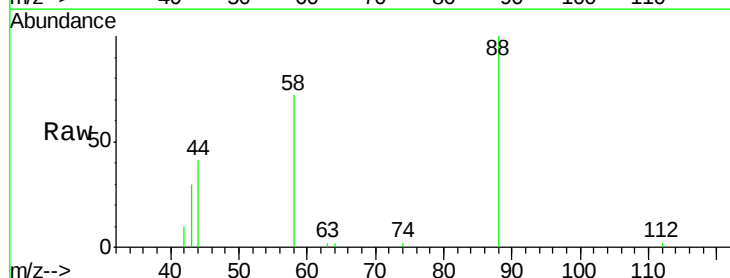
Tgt Ion: 88 Resp: 4171

Ion Ratio Lower Upper

88 100

58 71.5 53.0 79.4

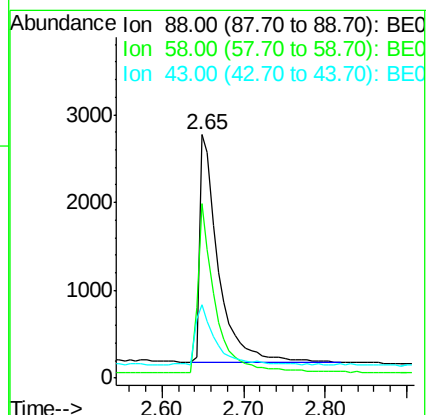
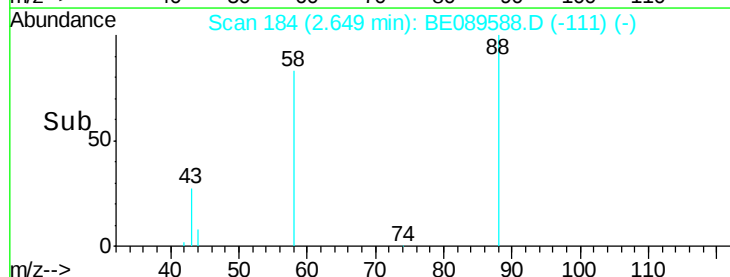
43 27.3 19.9 29.9

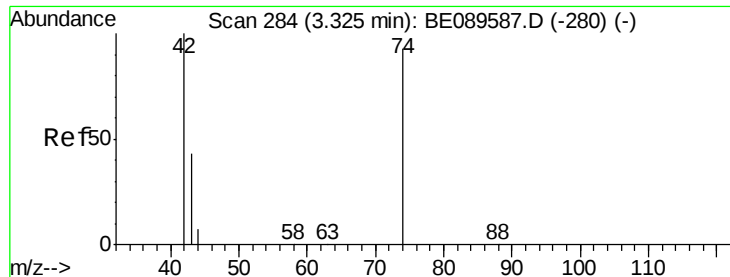


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



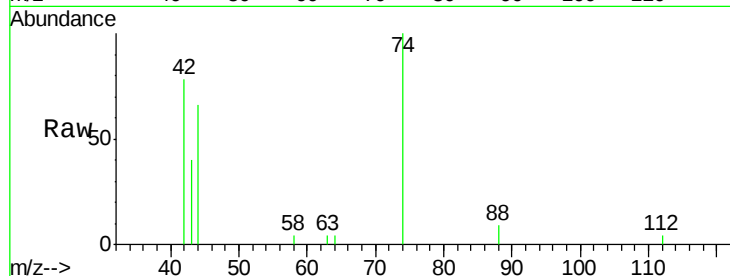


#3

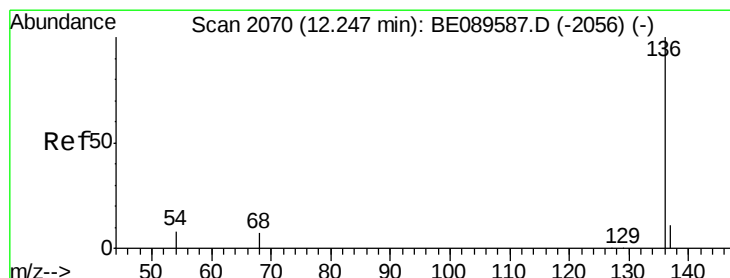
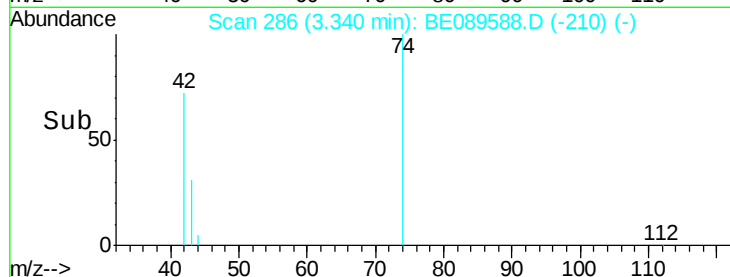
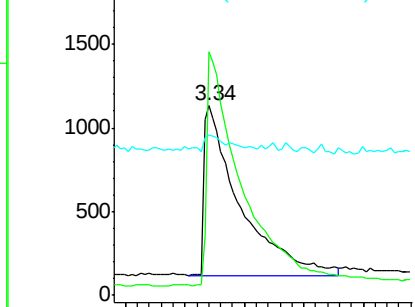
n-Nitrosodimethylamine
 Concen: 0.82 ng
 RT: 3.34 min Scan# 286
 Delta R.T. 0.02 min
 Lab File: BE089588.D
 Acq: 17 Feb 2015 4:17

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 4265
 Ion Ratio Lower Upper
 42 100
 74 144.4 114.2 171.4
 44 7.2 3.6 5.4#



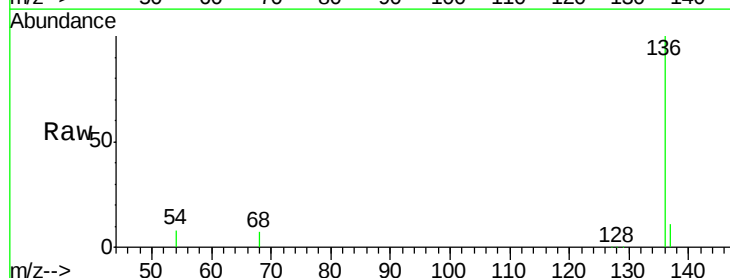
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



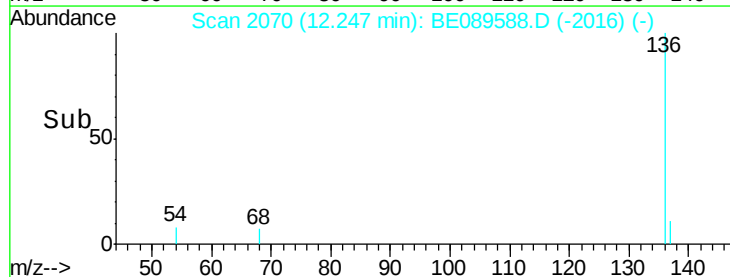
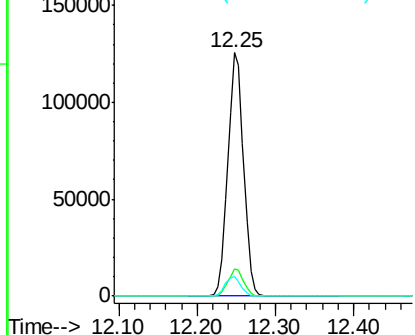
#4

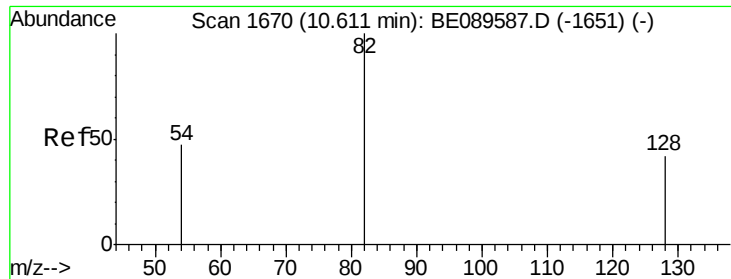
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: BE089588.D
 Acq: 17 Feb 2015 4:17

Tgt Ion: 136 Resp: 174857
 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: 0.76 ng

RT: 10.61 min Scan# 1670

Delta R.T. 0.00 min

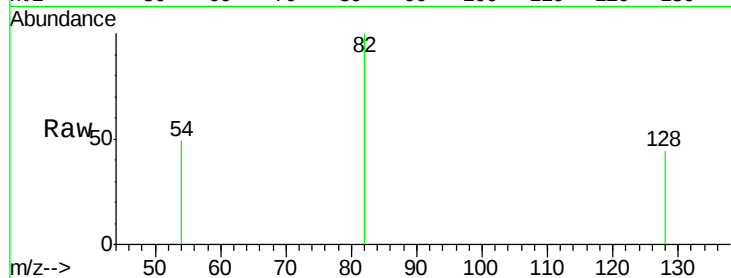
Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampled :



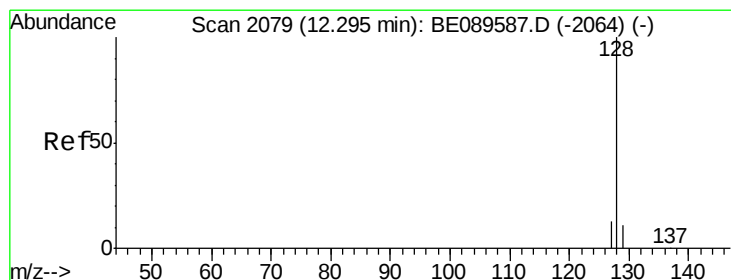
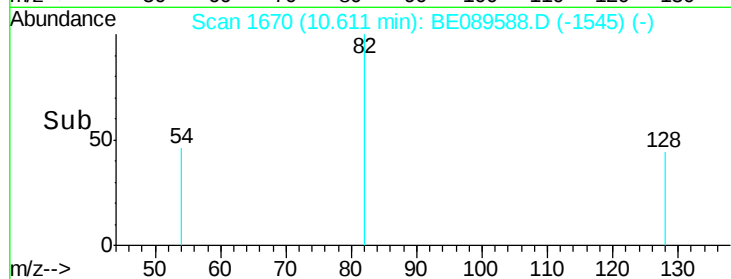
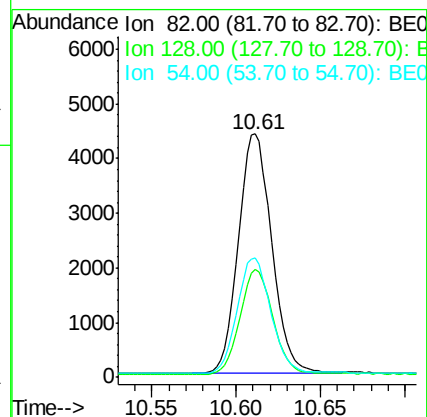
Tot Ion: 82 Resp: 6031

Ion Ratio Lower Upper

82 100

128 44.5 34.2 51.2

54 49.1 38.4 57.6



#6

Naphthalene

Concen: 0.81 ng

RT: 12.30 min Scan# 2079

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

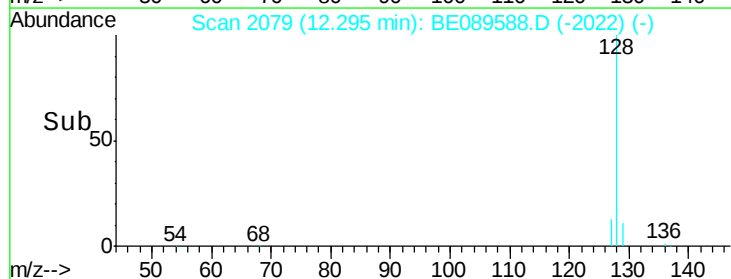
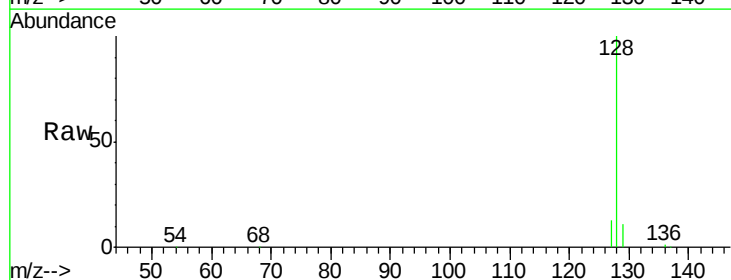
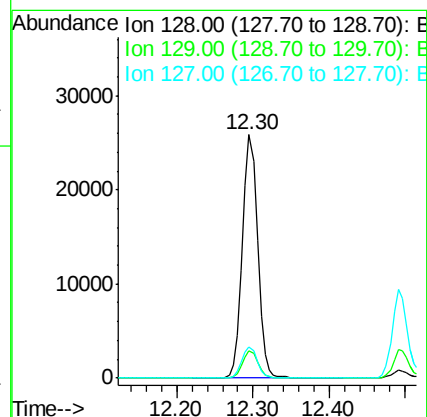
Tgt Ion: 128 Resp: 35505

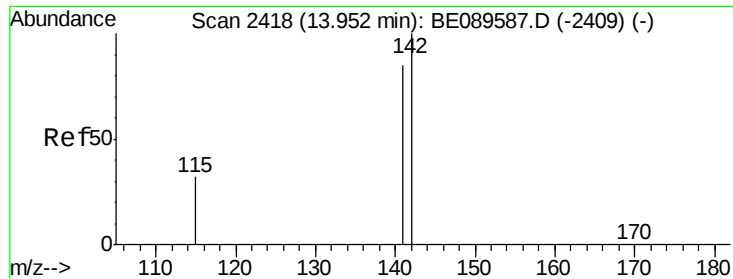
Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

127 12.9 10.2 15.4





#7

2-Methylnaphthalene

Concen: 0.81 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampleId :

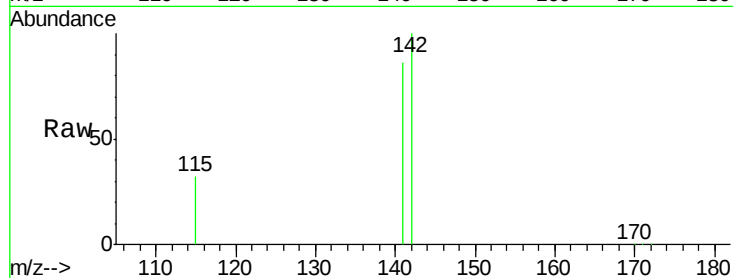
Tot Ion:142 Resp: 22797

Ion Ratio Lower Upper

142 100

141 85.9 68.1 102.1

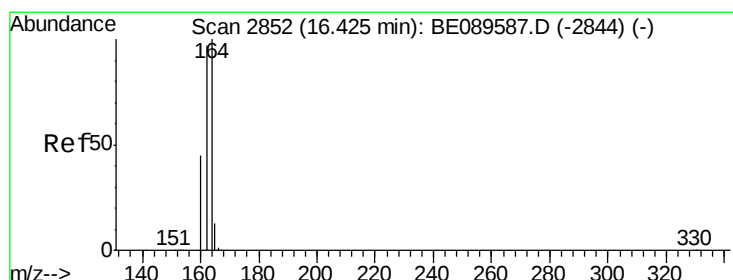
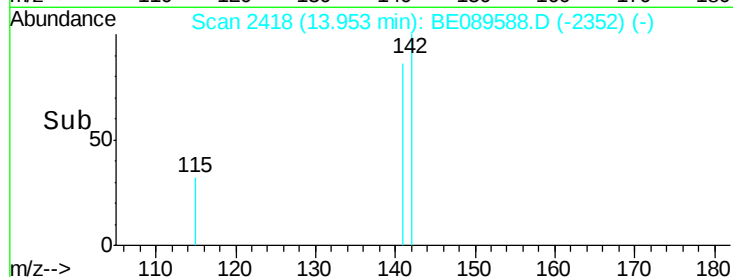
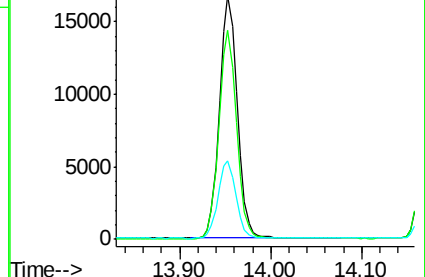
115 32.3 25.8 38.8



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# 2851

Delta R.T. -0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

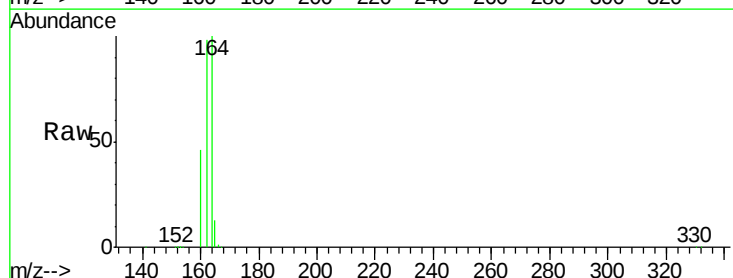
Tgt Ion:164 Resp: 89893

Ion Ratio Lower Upper

164 100

162 98.1 77.8 116.8

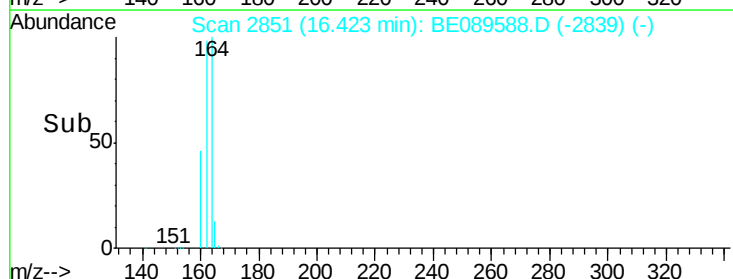
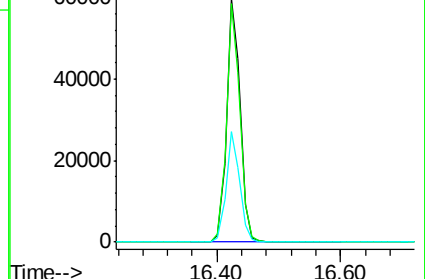
160 45.6 35.8 53.6

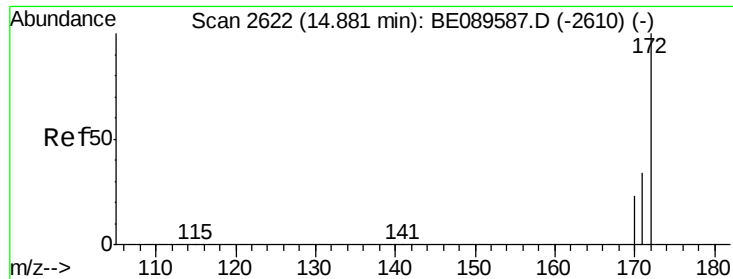


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

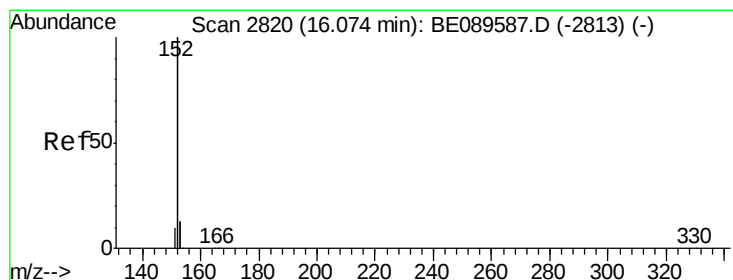
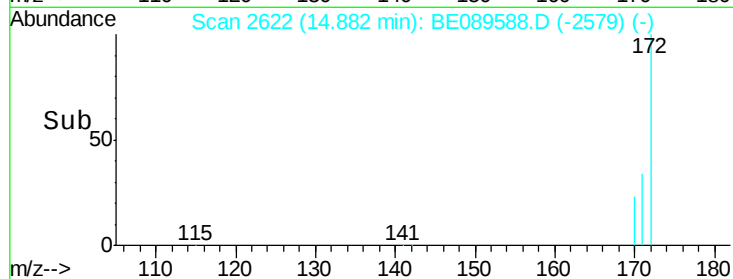
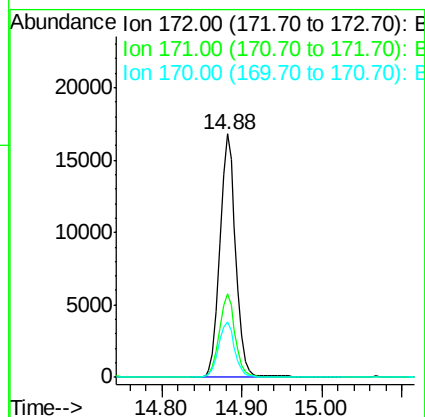
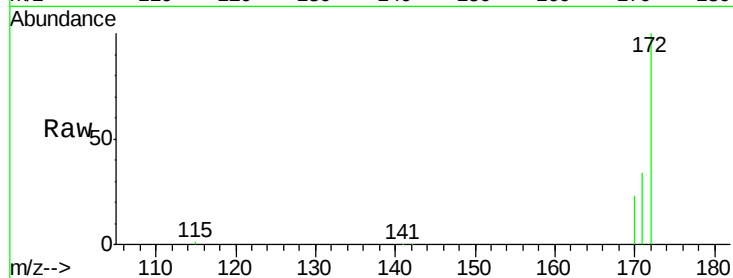




#9
 2-Fluorobiphenyl
 Concen: 0.79 ng
 RT: 14.88 min Scan# 2622
 Delta R.T. 0.00 min
 Lab File: BE089588.D
 Acq: 17 Feb 2015 4:17

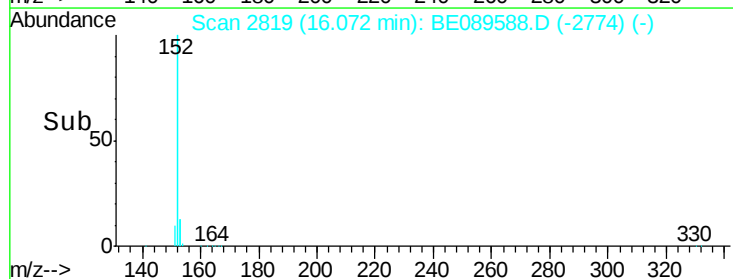
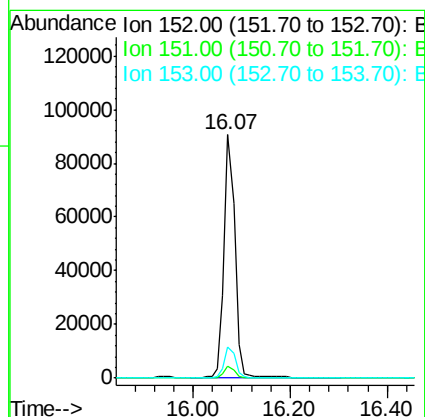
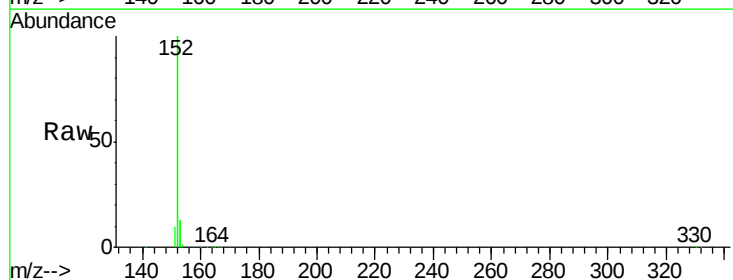
Instrument :
 BNA_E
 ClientSampleId :

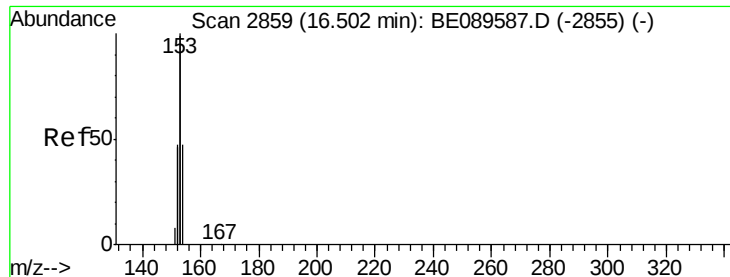
Tot Ion:172 Resp: 22671
 Ion Ratio Lower Upper
 172 100
 171 34.1 27.4 41.0
 170 22.9 18.6 27.8



#10
 Acenaphthylene
 Concen: 0.79 ng
 RT: 16.07 min Scan# 2819
 Delta R.T. -0.00 min
 Lab File: BE089588.D
 Acq: 17 Feb 2015 4:17

Tgt Ion:152 Resp: 135499
 Ion Ratio Lower Upper
 152 100
 151 4.9 3.8 5.8
 153 13.0 10.4 15.6





#11

Acenaphthene

Concen: 0.78 ng

RT: 16.50 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

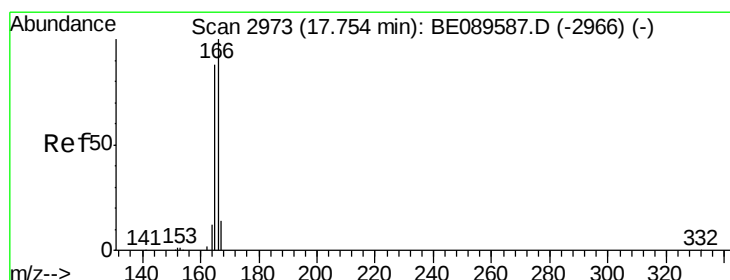
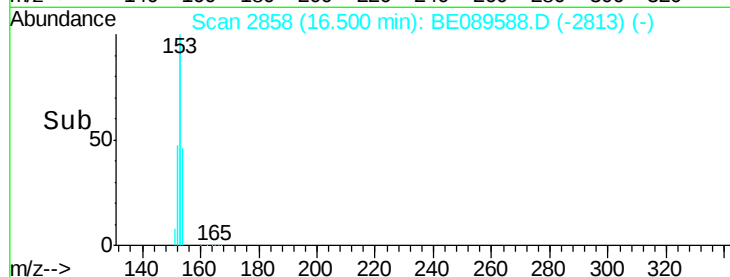
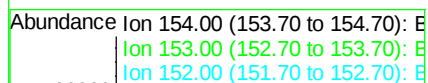
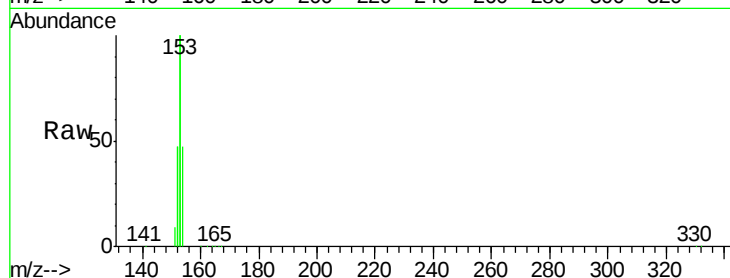
Instrument :

BNA_E

ClientSampleId :

Tot Ion:154 Resp: 21790

Ion	Ratio	Lower	Upper
154	100		
153	433.7	346.6	519.8
152	212.7	169.0	253.6



#12

Fluorene

Concen: 0.77 ng

RT: 17.75 min Scan# 2972

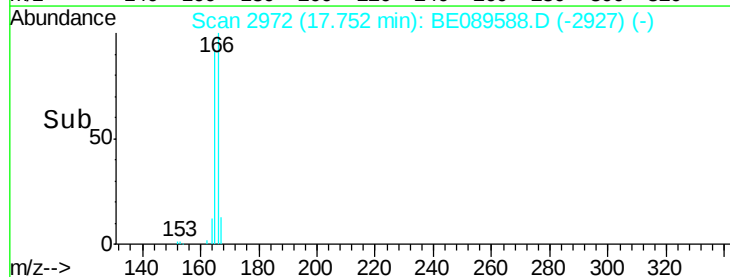
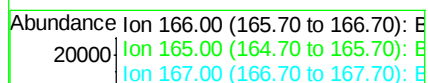
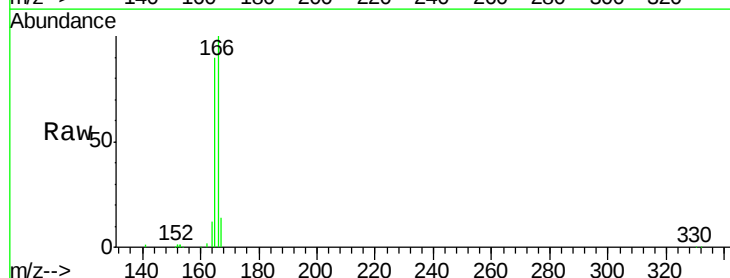
Delta R.T. -0.00 min

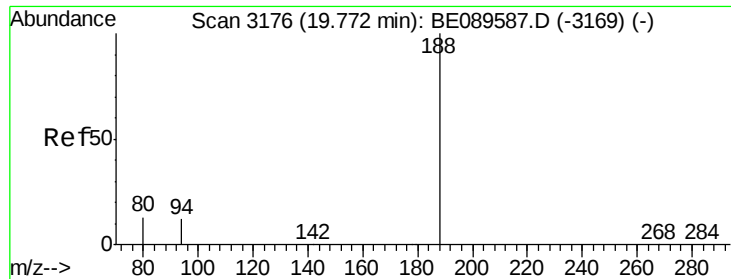
Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Tgt Ion:166 Resp: 24121

Ion	Ratio	Lower	Upper
166	100		
165	92.7	73.8	110.6
167	13.2	10.6	15.8





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampleId :

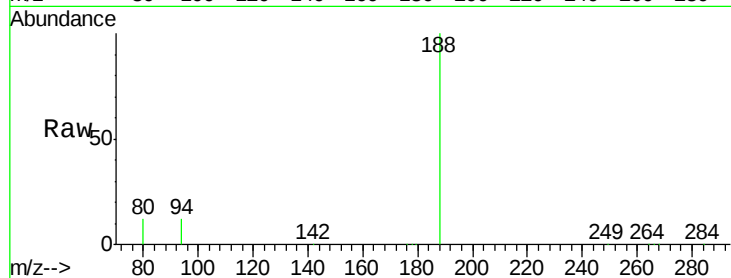
Tot Ion:188 Resp: 154628

Ion Ratio Lower Upper

188 100

94 12.0 9.8 14.8

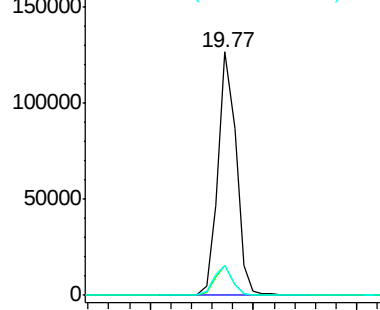
80 12.2 10.2 15.4



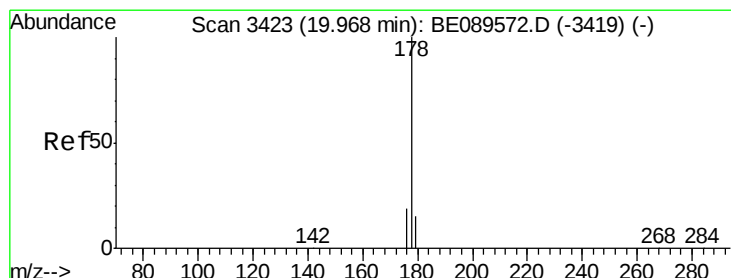
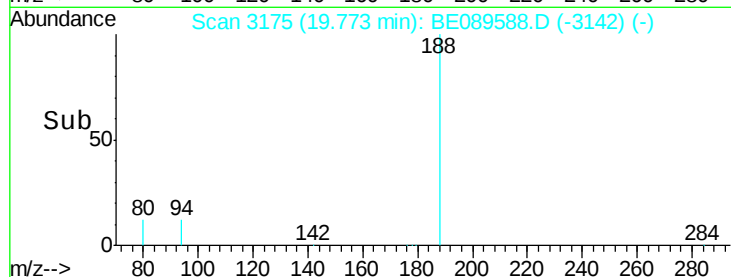
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->



#14

Hexachlorobenzene

Concen: 0.74 ng

RT: 19.00 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

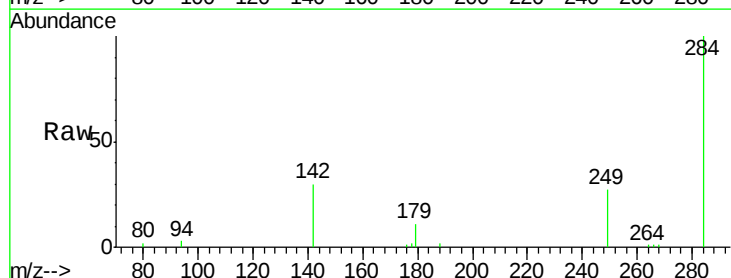
Tgt Ion:284 Resp: 6449

Ion Ratio Lower Upper

284 100

142 42.6 33.1 49.7

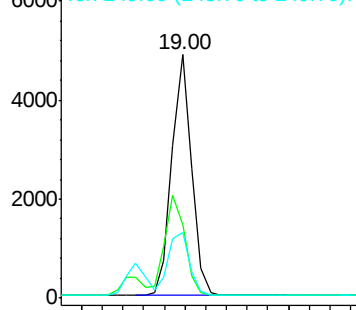
249 28.3 22.8 34.2



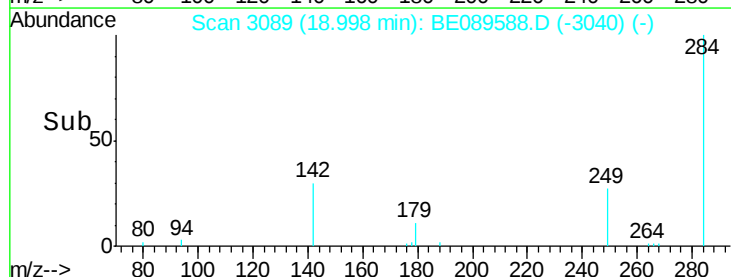
Abundance Ion 283.80 (283.50 to 284.50): E

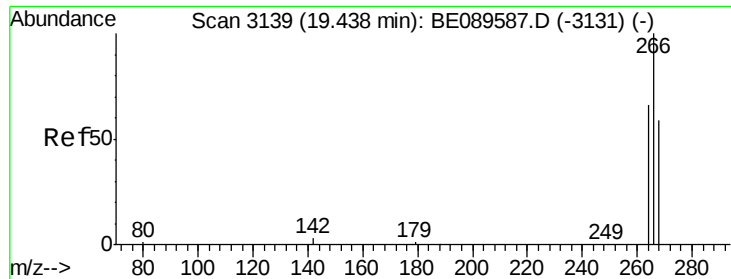
Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



Time-->

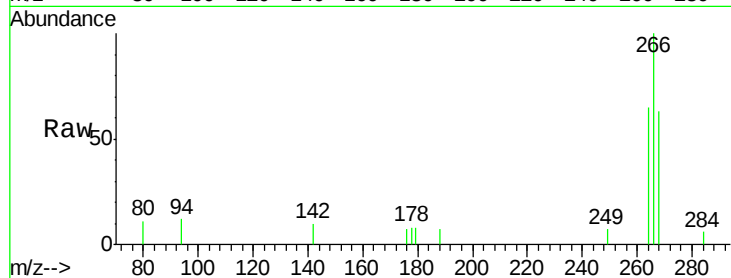




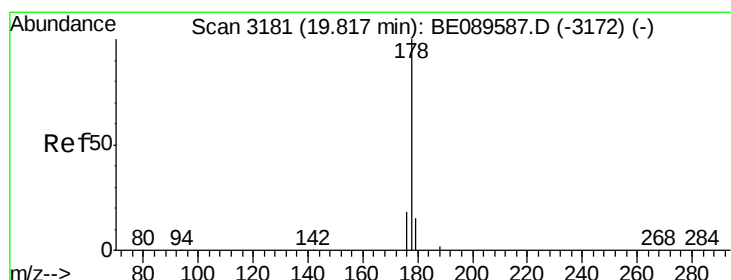
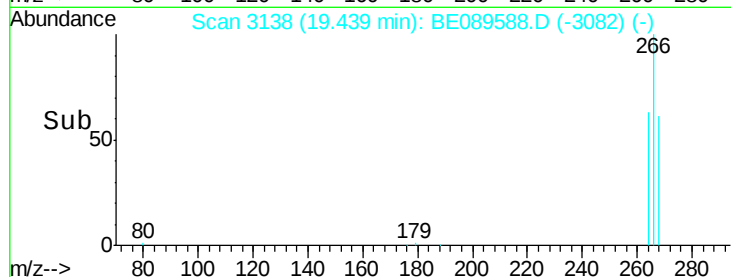
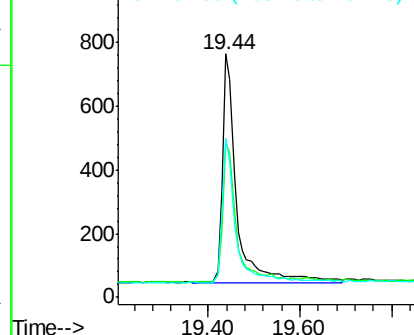
#15
 Pentachlorophenol
 Concen: 0.61 ng
 RT: 19.44 min Scan# 3138
 Delta R.T. 0.00 min
 Lab File: BE089588.D
 Acq: 17 Feb 2015 4:17

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:266 Resp: 1555
 Ion Ratio Lower Upper
 266 100
 268 63.3 48.8 73.2
 264 65.1 53.9 80.9

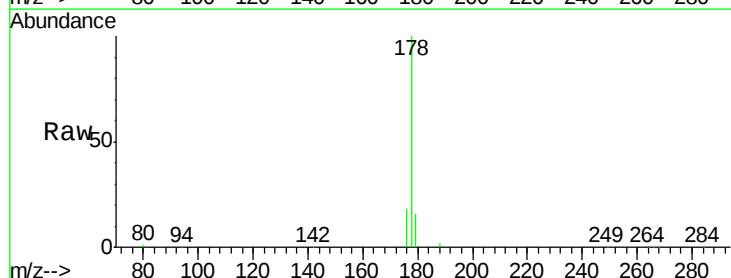


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

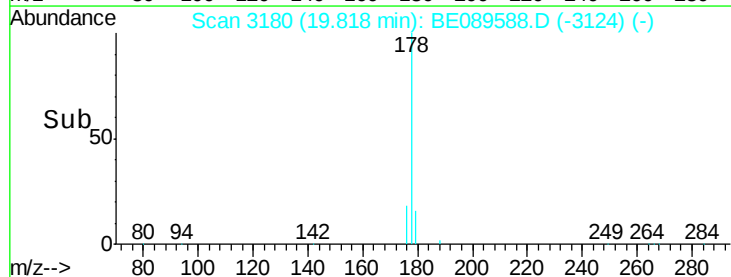
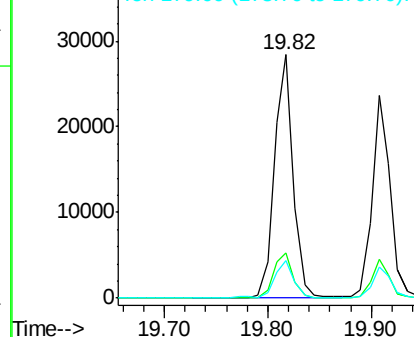


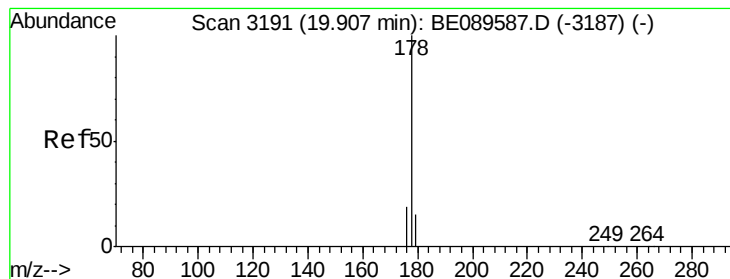
#16
 Phenanthrene
 Concen: 0.77 ng
 RT: 19.82 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: BE089588.D
 Acq: 17 Feb 2015 4:17

Tgt Ion:178 Resp: 35715
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.2 22.8
 179 15.7 12.4 18.6



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: 0.77 ng

RT: 19.91 min Scan# 3190

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampleId :

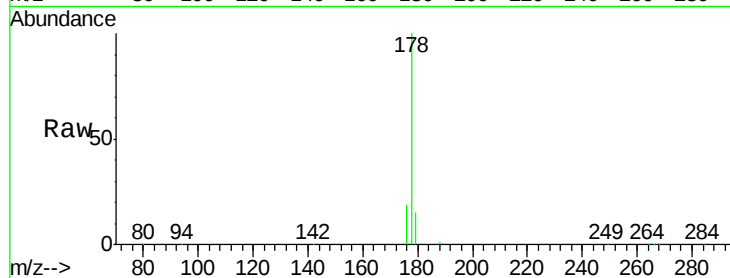
Tot Ion:178 Resp: 29324

Ion Ratio Lower Upper

178 100

176 18.6 14.7 22.1

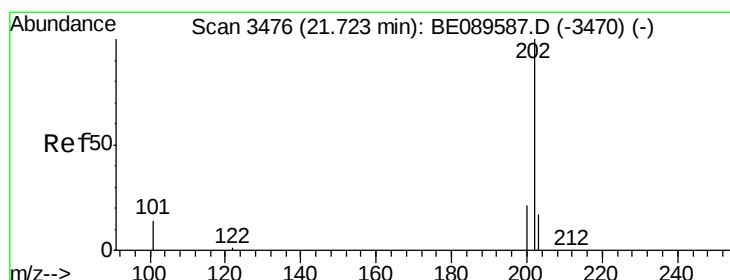
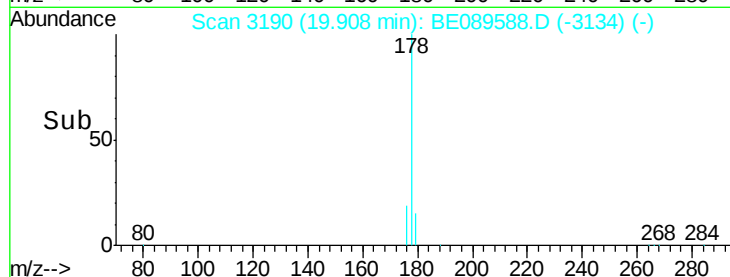
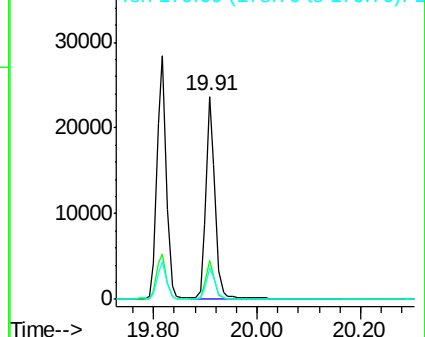
179 15.1 12.2 18.2



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: 0.77 ng

RT: 21.72 min Scan# 3474

Delta R.T. -0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

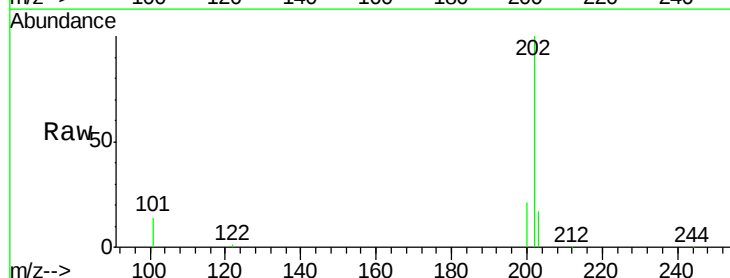
Tgt Ion:202 Resp: 29751

Ion Ratio Lower Upper

202 100

101 13.1 10.3 15.5

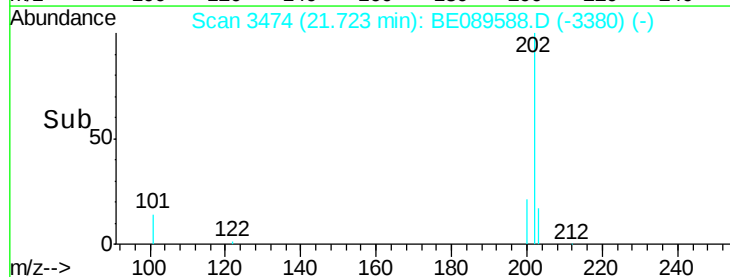
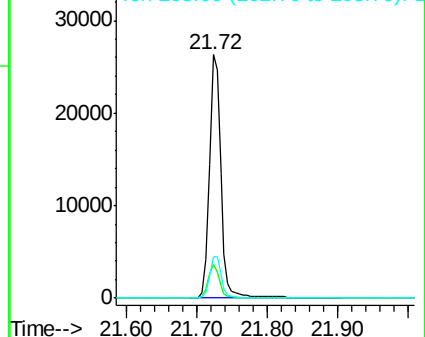
203 17.2 13.8 20.6

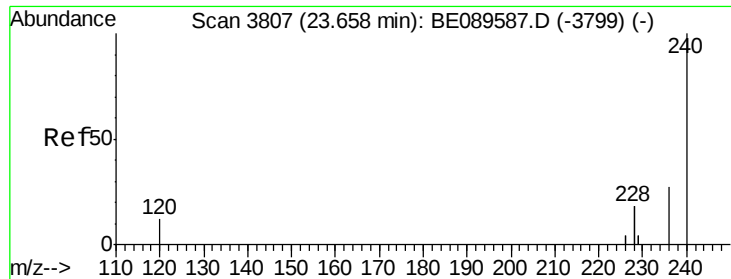


Abundance Ion 202.00 (201.70 to 202.70): E

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# 3805

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampleId :

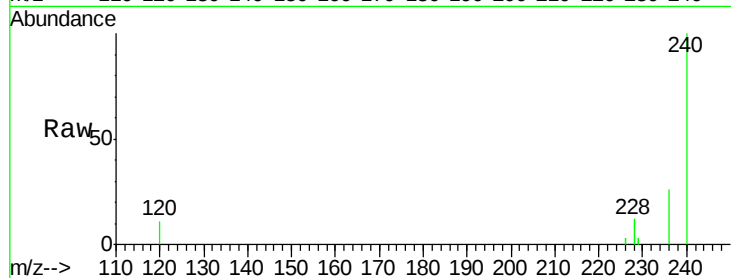
Tot Ion:240 Resp: 129714

Ion Ratio Lower Upper

240 100

120 11.0 9.9 14.9

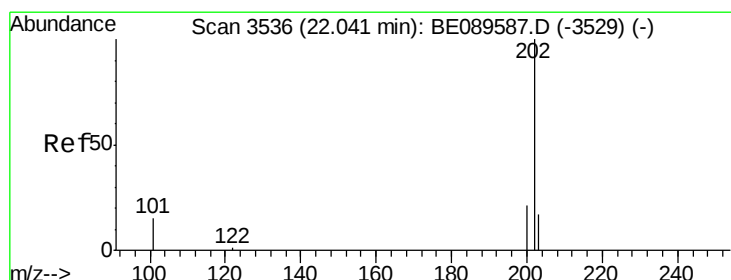
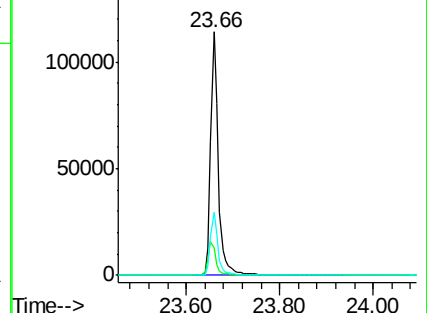
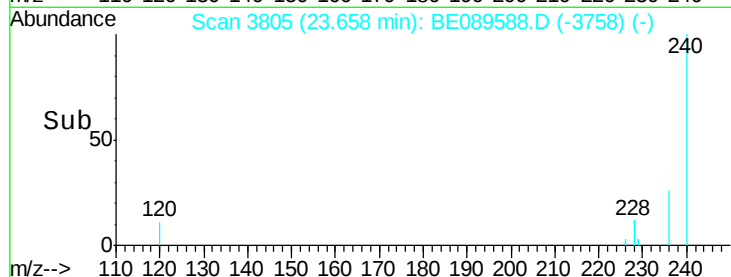
236 26.1 21.5 32.3



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: 0.78 ng

RT: 22.04 min Scan# 3534

Delta R.T. -0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

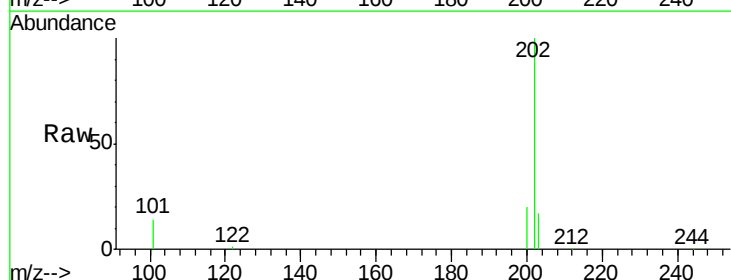
Tgt Ion:202 Resp: 32002

Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

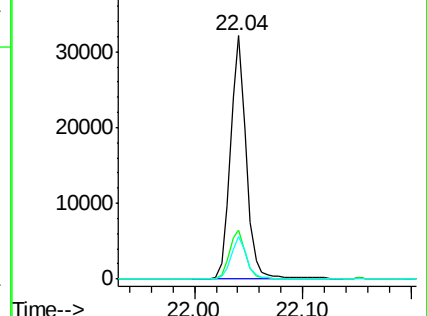
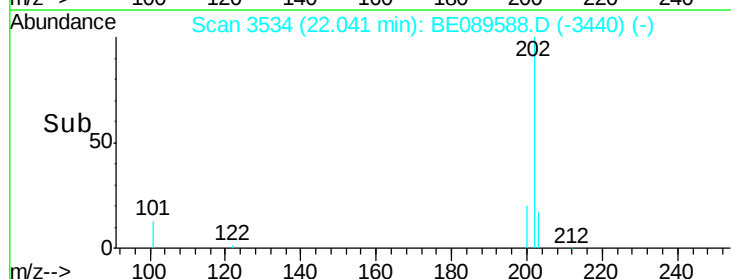
203 17.3 13.8 20.8

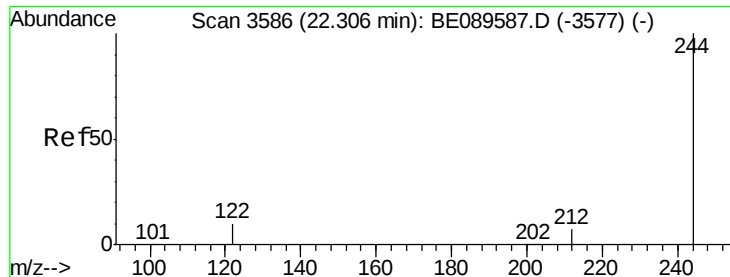


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.82 ng

RT: 22.31 min Scan# 3584

Delta R.T. -0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampleId :

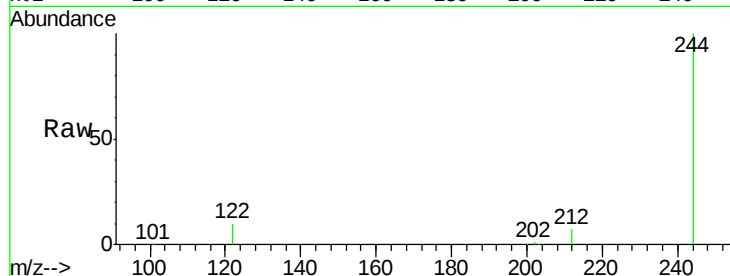
Tot Ion:244 Resp: 19809

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

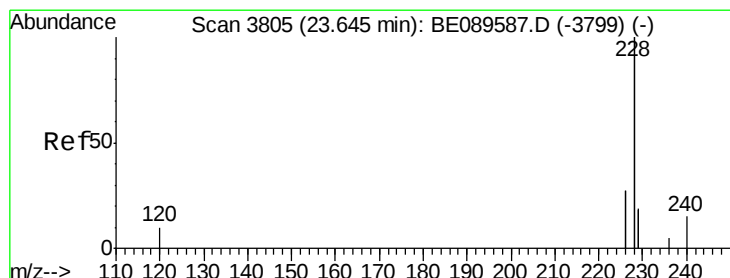
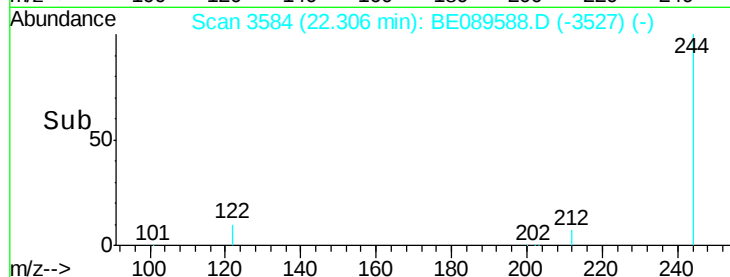
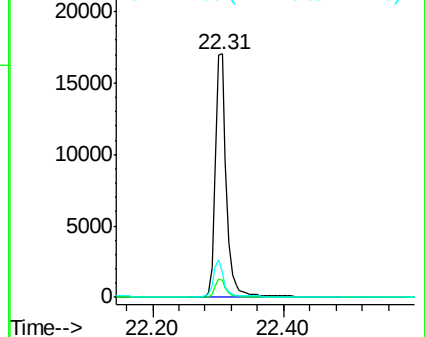
122 10.3 8.6 12.8



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: 0.81 ng

RT: 23.65 min Scan# 3803

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

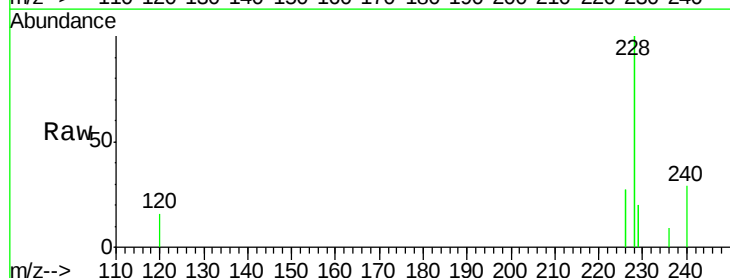
Tgt Ion:228 Resp: 108500

Ion Ratio Lower Upper

228 100

226 26.9 21.5 32.3

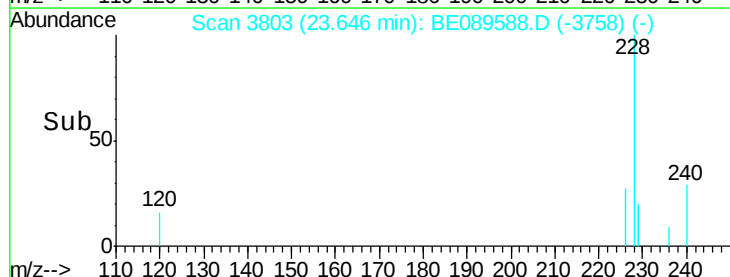
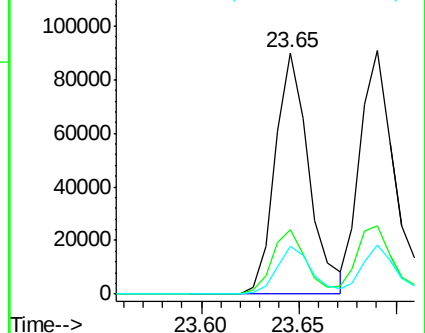
229 19.5 15.0 22.4

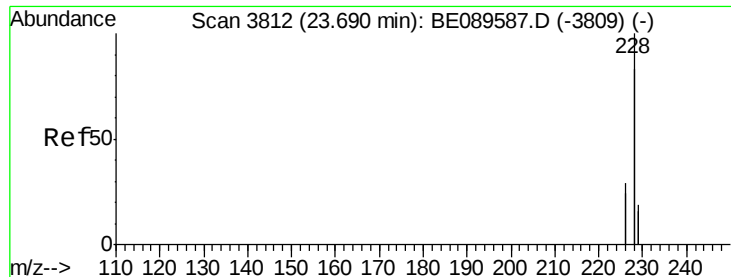


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.77 ng

RT: 23.69 min Scan# 3810

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampleId :

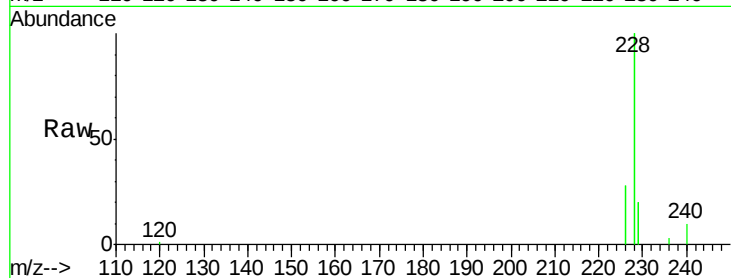
Tot Ion:228 Resp: 122026

Ion Ratio Lower Upper

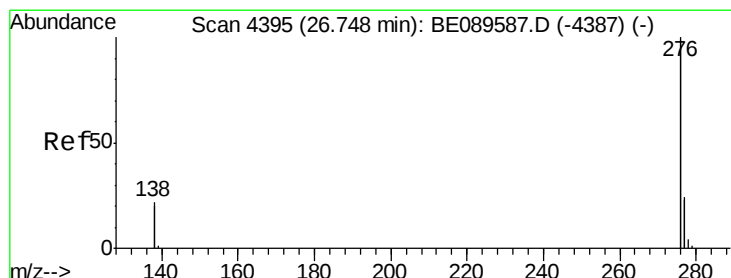
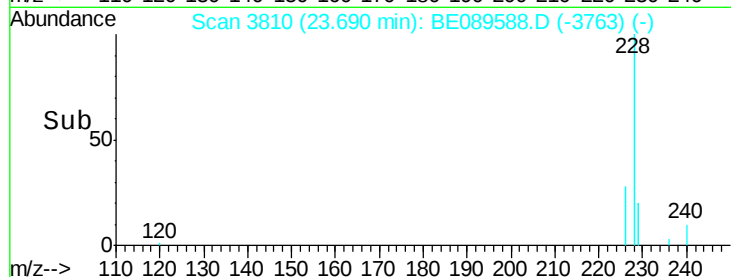
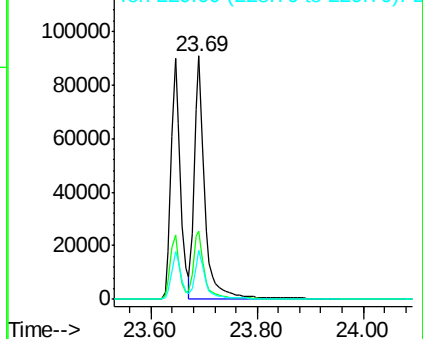
228 100

226 28.0 23.3 34.9

229 20.1 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: 0.79 ng

RT: 26.75 min Scan# 4393

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

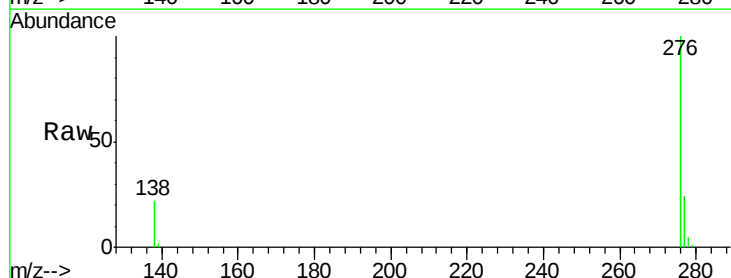
Tgt Ion:276 Resp: 91996

Ion Ratio Lower Upper

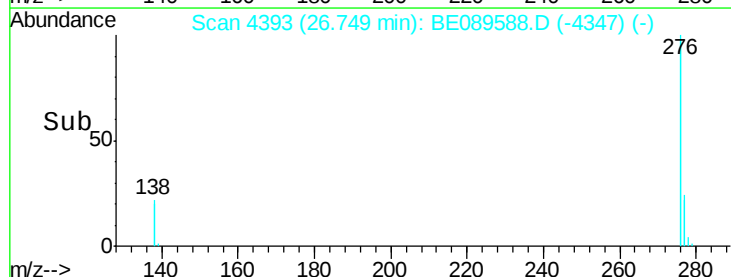
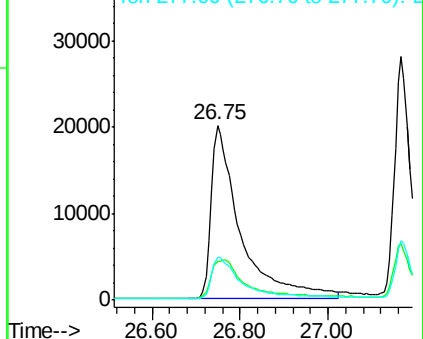
276 100

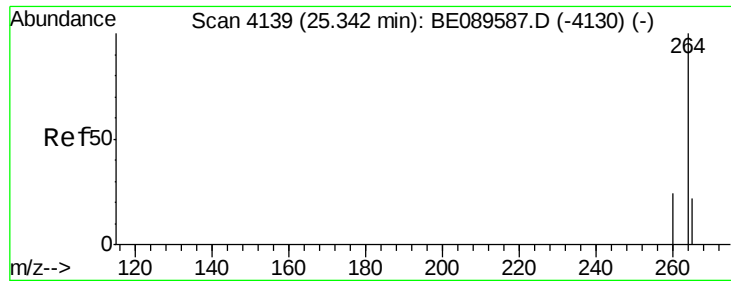
138 26.2 21.0 31.6

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

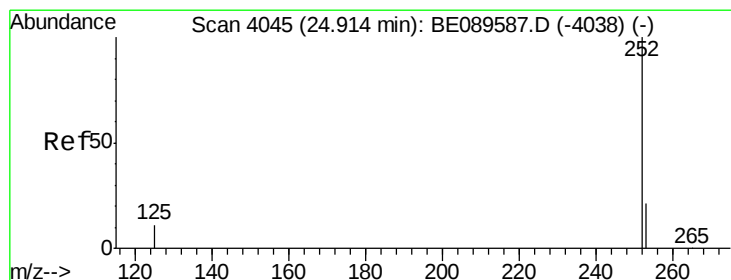
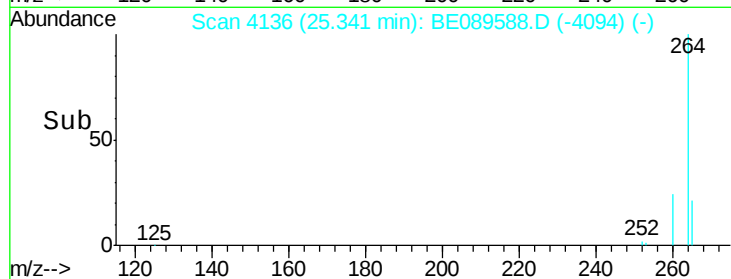
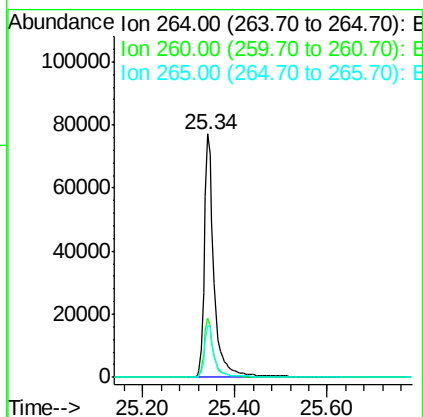
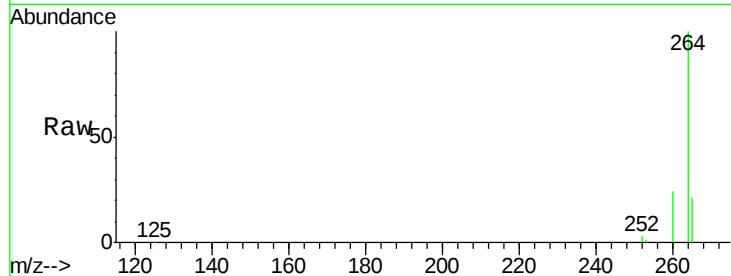




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4136
Delta R.T. -0.00 min
Lab File: BE089588.D
Acq: 17 Feb 2015 4:17

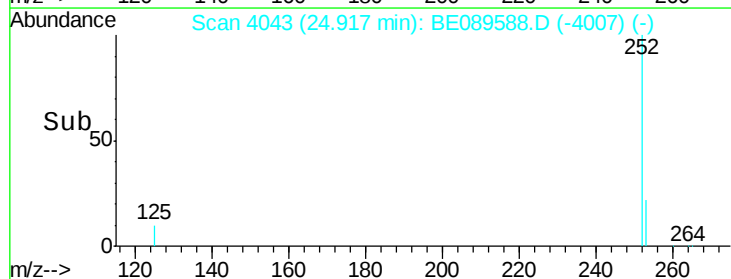
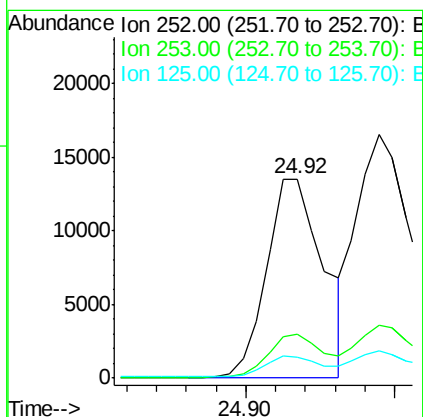
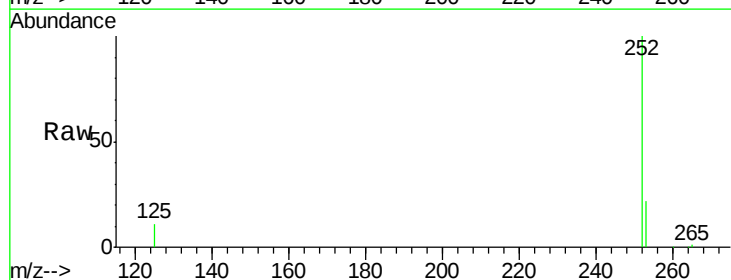
Instrument :
BNA_E
ClientSampleId :

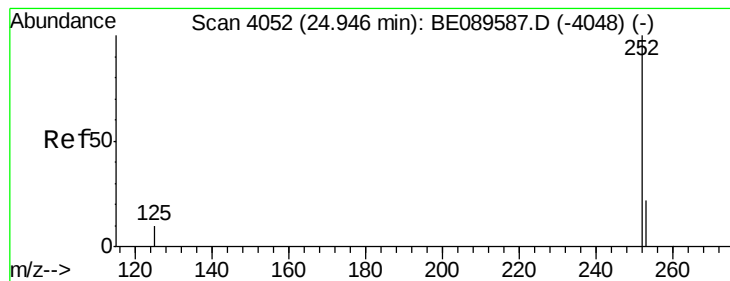
Tot Ion:264 Resp: 111124
Ion Ratio Lower Upper
264 100
260 24.5 19.4 29.0
265 21.4 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.79 ng
RT: 24.92 min Scan# 4043
Delta R.T. 0.00 min
Lab File: BE089588.D
Acq: 17 Feb 2015 4:17

Tgt Ion:252 Resp: 17704
Ion Ratio Lower Upper
252 100
253 22.4 17.3 25.9
125 10.7 8.9 13.3





#27

Benzo(k)fluoranthene

Concen: 0.84 ng

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampleId :

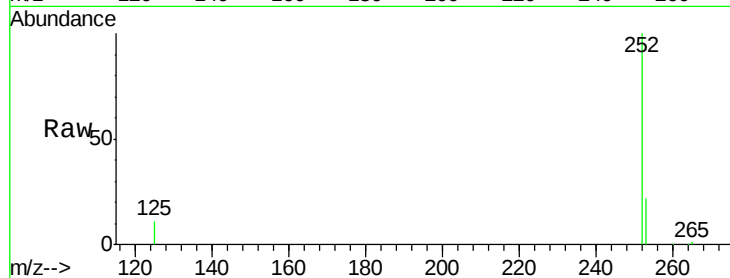
Tot Ion:252 Resp: 30757

Ion Ratio Lower Upper

252 100

253 22.0 17.9 26.9

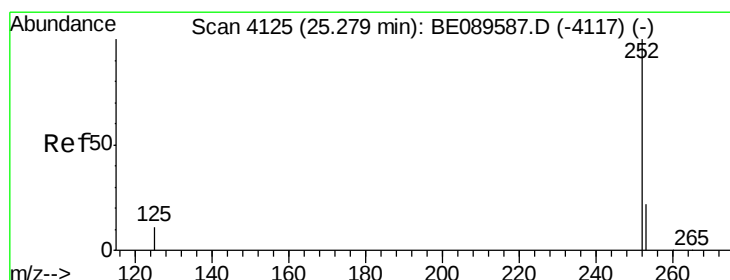
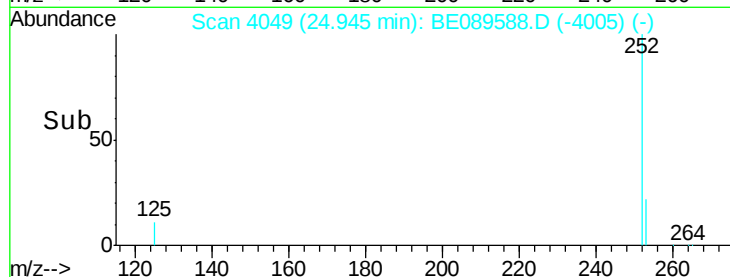
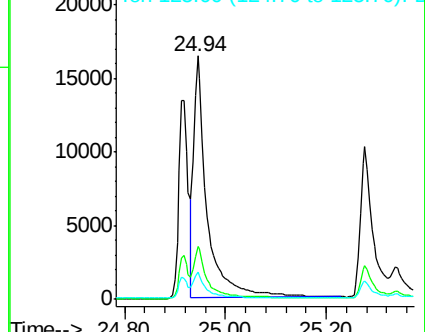
125 11.1 8.6 13.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.78 ng

RT: 25.28 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

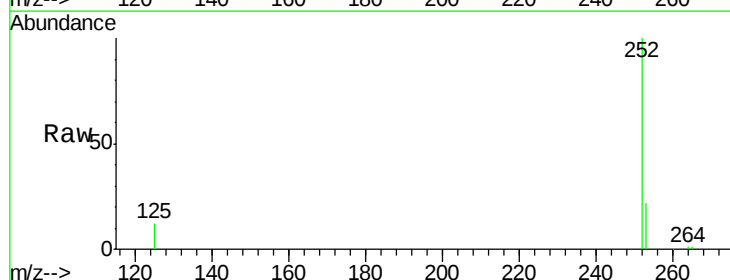
Tgt Ion:252 Resp: 17019

Ion Ratio Lower Upper

252 100

253 22.0 17.7 26.5

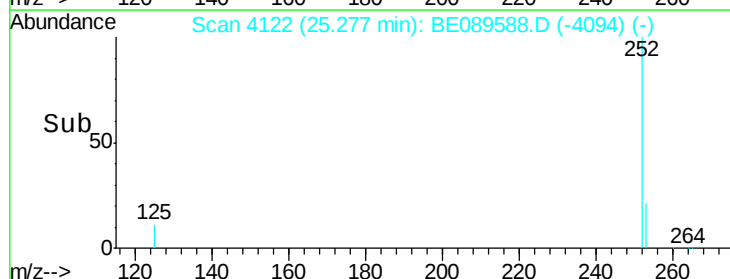
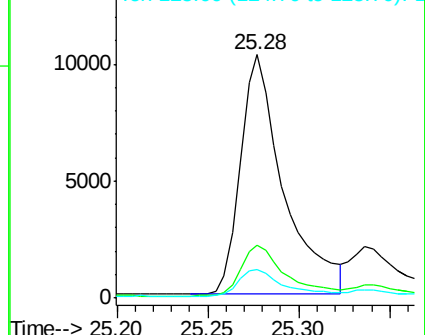
125 11.8 9.6 14.4

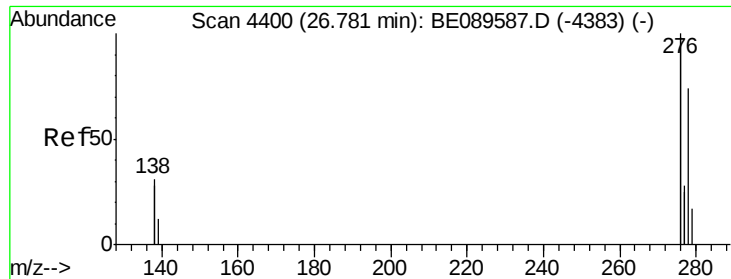


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.80 ng

RT: 26.77 min Scan# 4397

Delta R.T. -0.01 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

Instrument :

BNA_E

ClientSampleId :

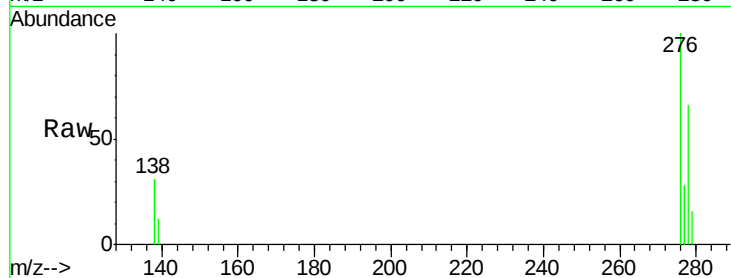
Tot Ion:278 Resp: 17860

Ion Ratio Lower Upper

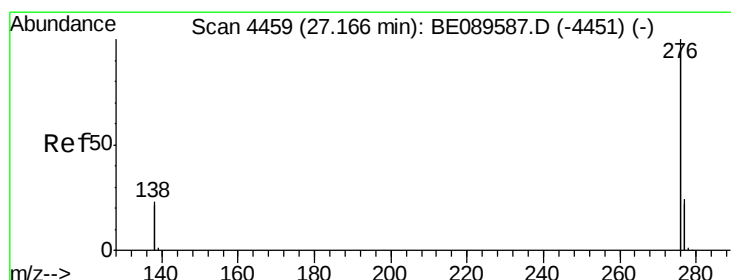
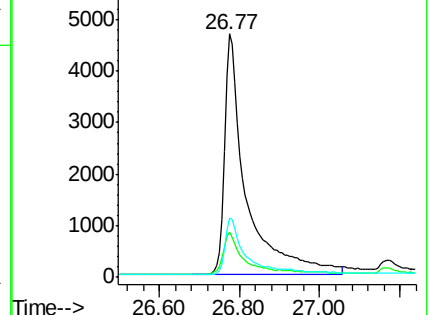
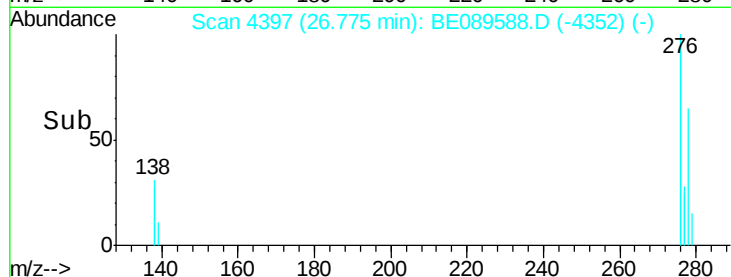
278 100

139 18.5 13.9 20.9

279 24.3 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: 0.80 ng

RT: 27.17 min Scan# 4457

Delta R.T. 0.00 min

Lab File: BE089588.D

Acq: 17 Feb 2015 4:17

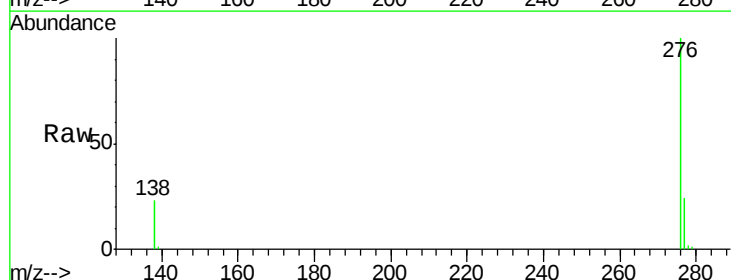
Tgt Ion:276 Resp: 86999

Ion Ratio Lower Upper

276 100

277 24.1 19.1 28.7

138 23.3 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

