

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089638.D
 Acq On : 19 Feb 2015 15:15
 Operator : TP/IZ
 Sample : MDL-07-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 20 01:16:10 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	35006	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	138578	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	69078	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	134735	5.00	ng	0.00
19) Chrysene-d12	23.66	240	120602	5.00	ng	0.00
25) Perylene-d12	25.34	264	95783	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	62021	10.30	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	164993	8.92	ng	0.00
21) Terphenyl-d14	22.30	244	196732	11.34	ng	0.00

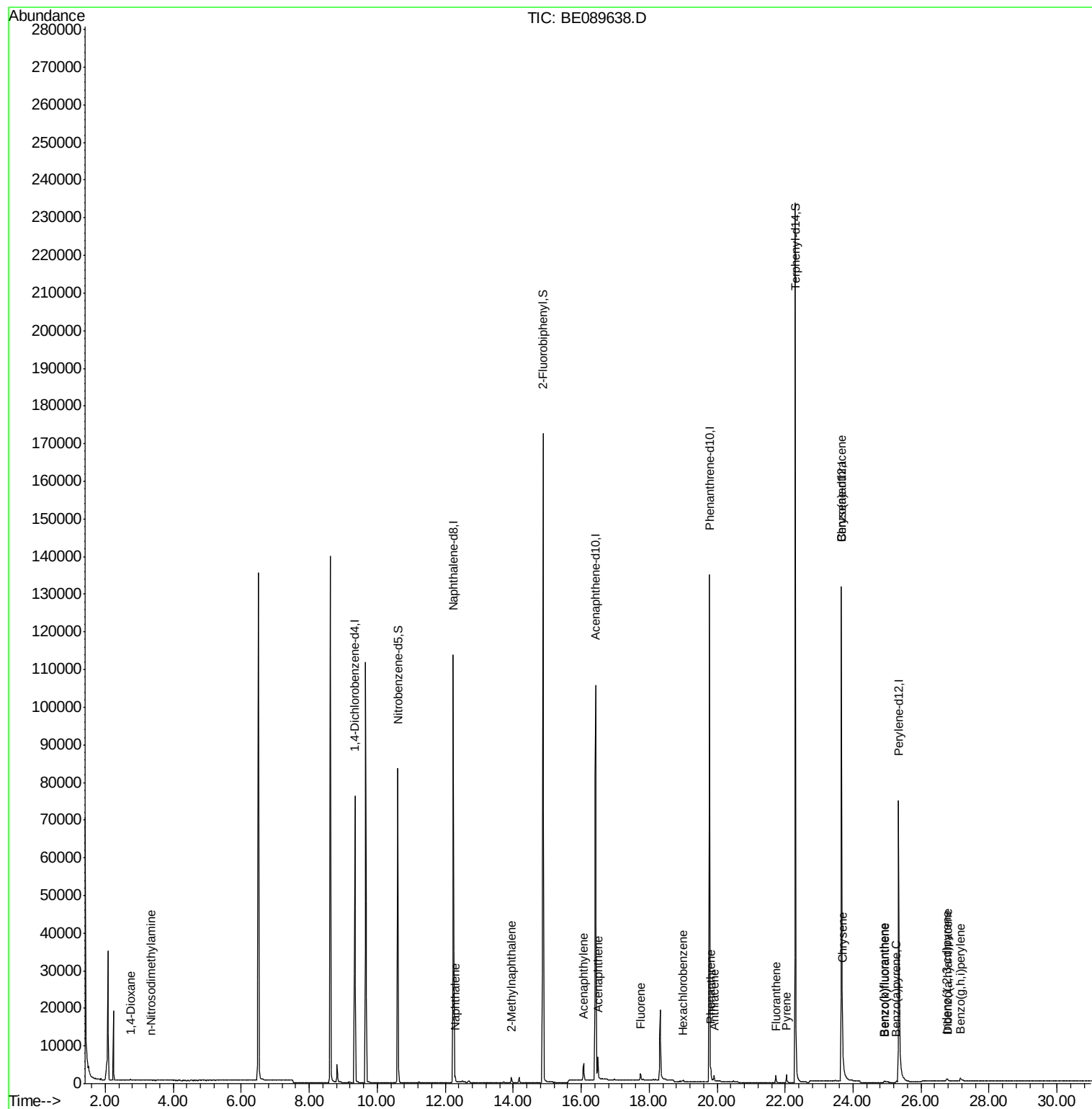
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.74	88	262	0.06	ng	# 85
3) n-Nitrosodimethylamine	3.34	42	9	0.00	ng	# 1
6) Naphthalene	12.29	128	2186	0.07	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1177	0.06	ng	97
10) Acenaphthylene	16.07	152	6421	0.06	ng	98
11) Acenaphthene	16.49	154	1208	0.07	ng	92
12) Fluorene	17.74	166	1342	0.06	ng	100
14) Hexachlorobenzene	19.00	284	430	0.07	ng	95
15) Pentachlorophenol	19.45	266	21	Below Cal	#	62
16) Phenanthrene	19.82	178	2294	0.07	ng	99
17) Anthracene	19.91	178	1632	0.06	ng	98
18) Fluoranthene	21.72	202	1677	0.05	ng	100
20) Pyrene	22.04	202	1779	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	6031	0.06	ng	# 94
23) Chrysene	23.69	228	9747	0.08	ng	94
24) Indeno(1,2,3-cd)pyrene	26.75	276	1478	0.19	ng	98
26) Benzo(b)fluoranthene	24.91	252	387	0.29	ng	# 72
27) Benzo(k)fluoranthene	24.94	252	712	0.03	ng	# 76
28) Benzo(a)pyrene	25.27	252	407	0.26	ng	# 66
29) Dibenzo(a,h)anthracene	26.78	278	279	0.24	ng	# 39
30) Benzo(g,h,i)perylene	27.16	276	1834	0.15	ng	# 59

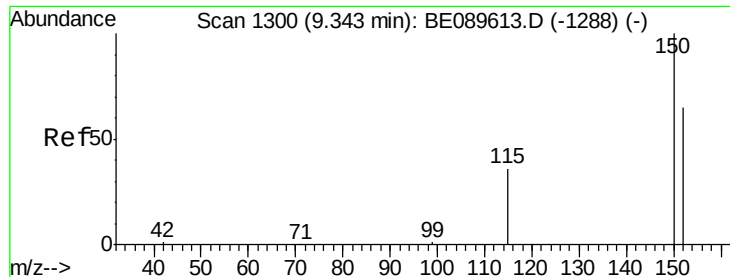
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

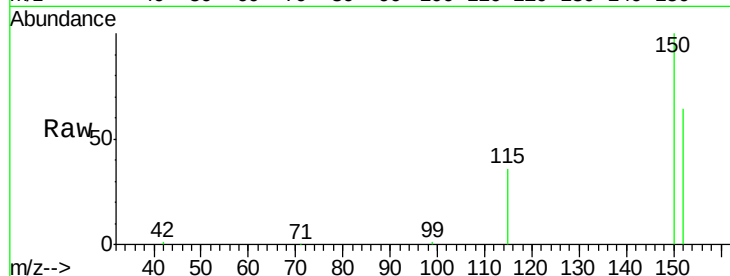
Tgt Ion:152 Resp: 35006

Ion Ratio Lower Upper

152 100

150 156.8 122.4 183.6

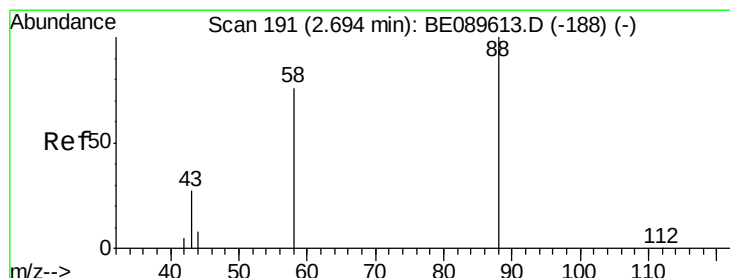
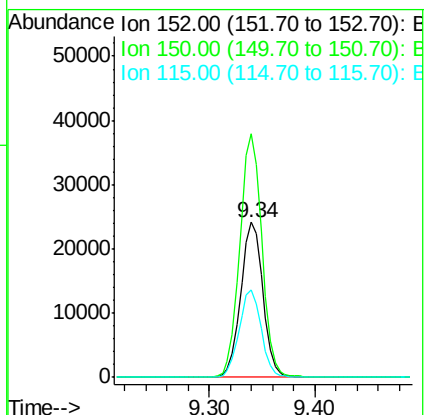
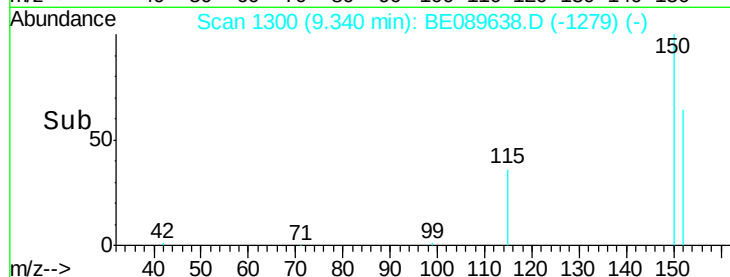
115 56.2 44.2 66.2



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: 0.06 ng

RT: 2.74 min Scan# 198

Delta R.T. 0.05 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

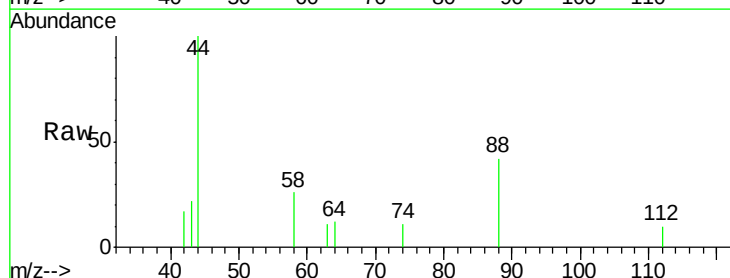
Tgt Ion: 88 Resp: 262

Ion Ratio Lower Upper

88 100

58 69.1 54.6 81.8

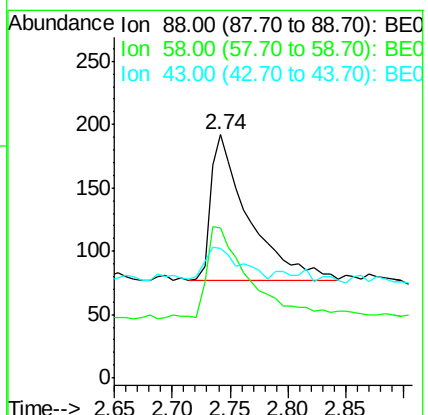
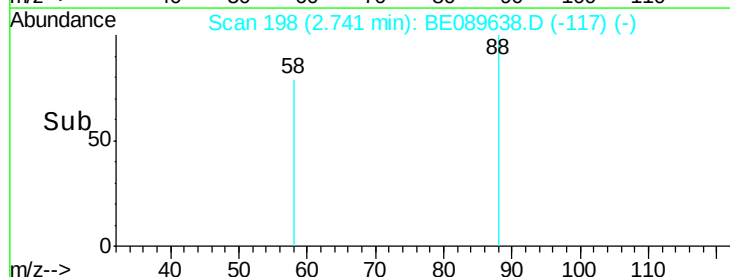
43 0.0 20.6 30.8#

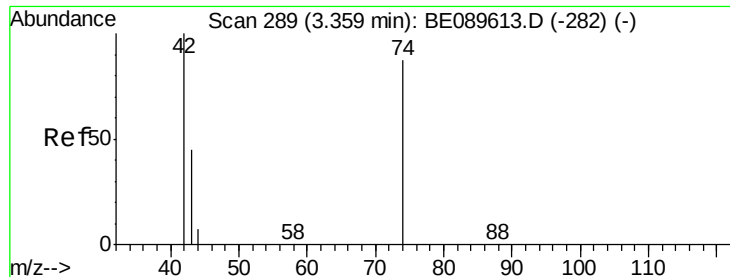


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



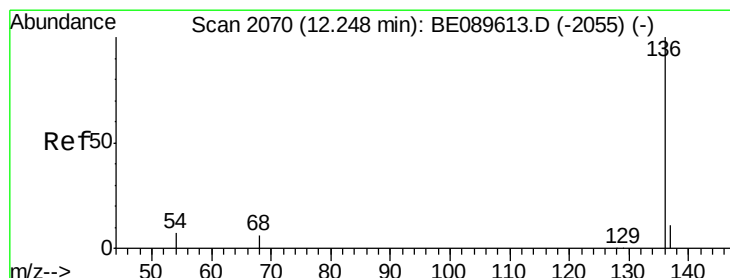
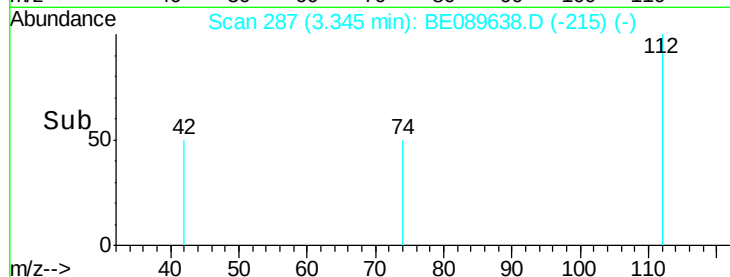
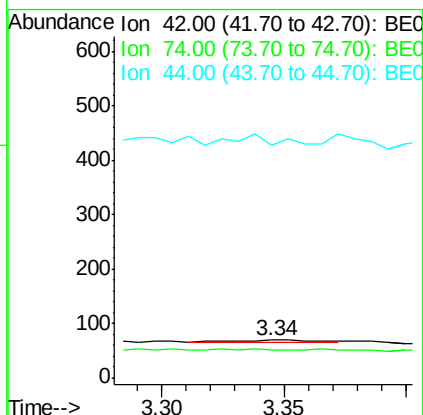
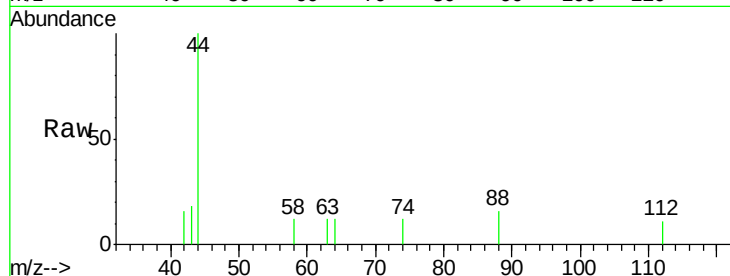


#3

n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.34 min Scan# 287
 Delta R.T. -0.01 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 15:15

Instrument :
 BNA_E
 ClientSampleId :

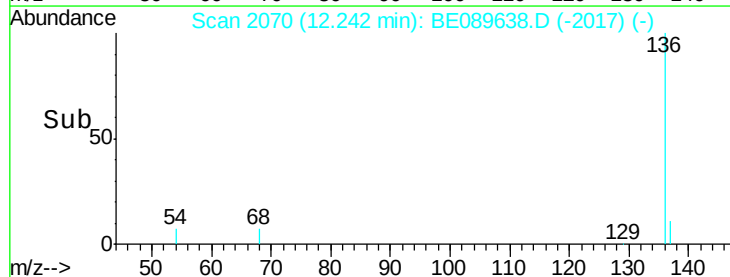
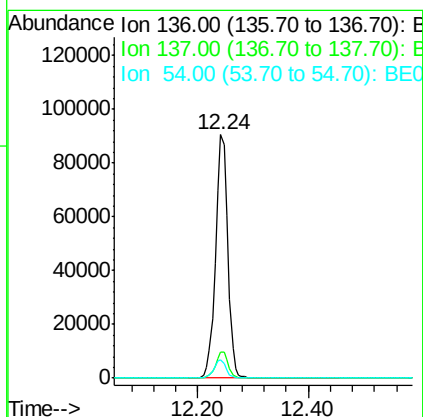
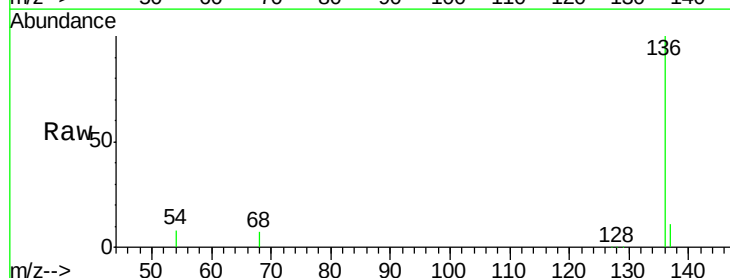
Tgt Ion: 42 Resp: 9
 Ion Ratio Lower Upper
 42 100
 74 0.0 121.4 182.0#
 44 288.9 4.5 6.7#

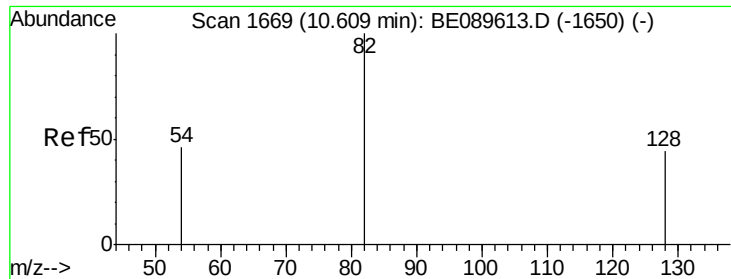


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2070
 Delta R.T. -0.01 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 15:15

Tgt Ion: 136 Resp: 138578
 Ion Ratio Lower Upper
 136 100
 137 10.8 8.9 13.3
 54 7.5 5.3 7.9





#5

Nitrobenzene-d5

Concen: 10.30 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

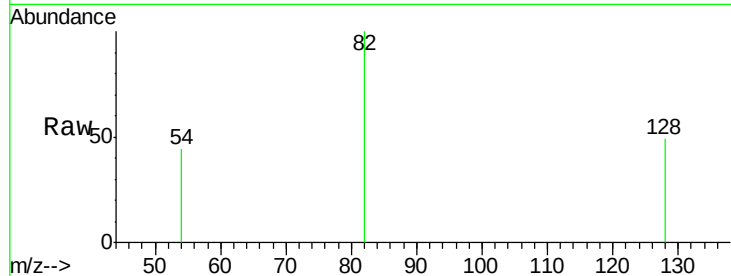
Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

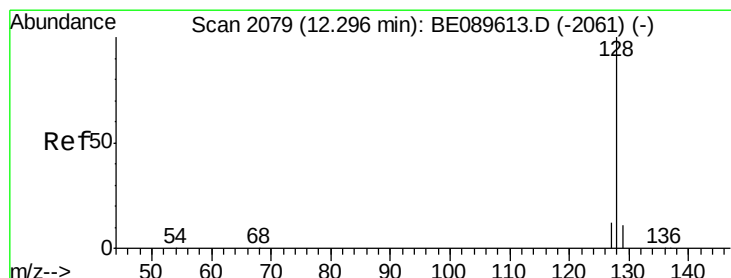
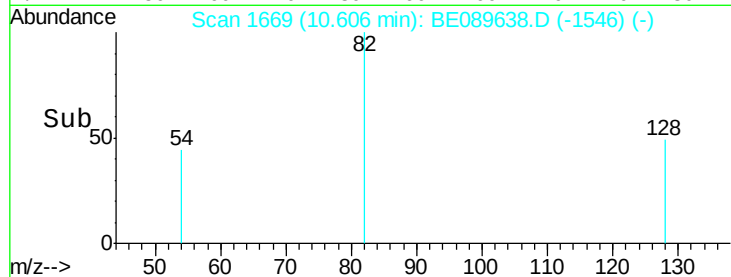
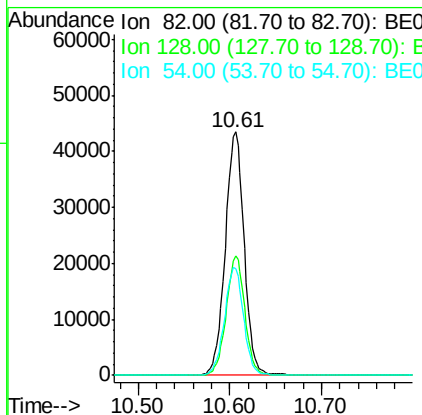
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	62021
Ion	Ratio	Lower	Upper
82	100		
128	48.9	35.5	53.3
54	44.0	37.5	56.3



#6

Naphthalene

Concen: 0.07 ng

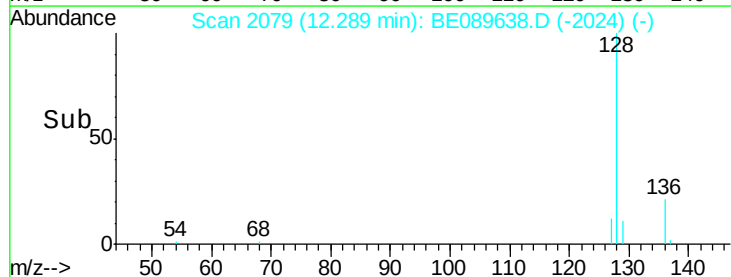
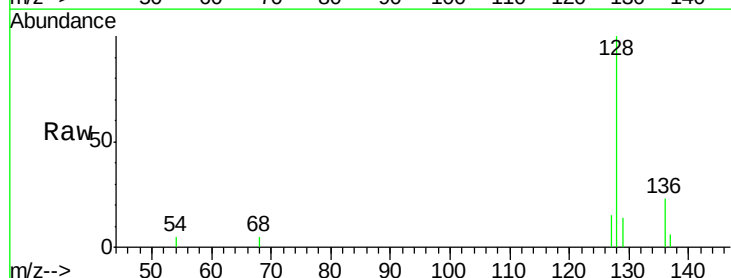
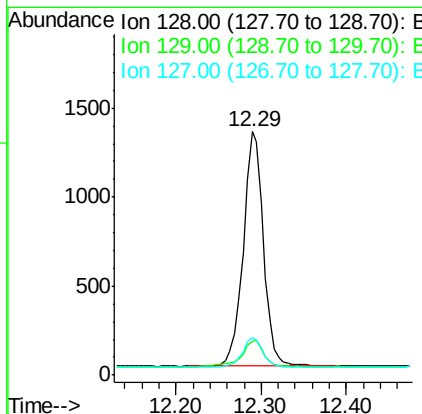
RT: 12.29 min Scan# 2079

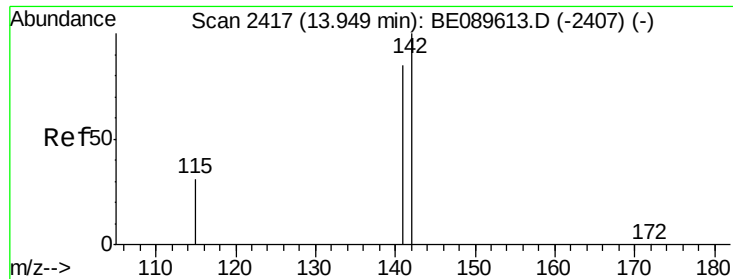
Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Tgt Ion:	128	Resp:	2186
Ion	Ratio	Lower	Upper
128	100		
129	14.0	8.9	13.3#
127	15.2	9.8	14.8#





#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2418

Delta R.T. -0.00 min

Lab File: BE089638.D

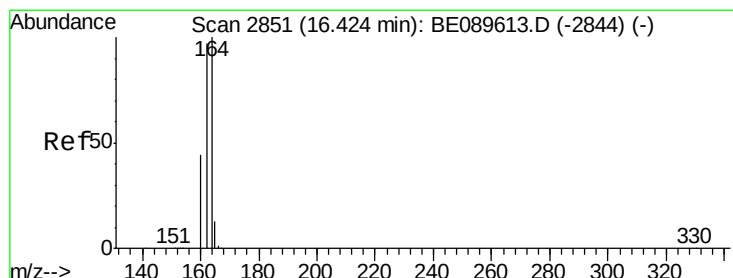
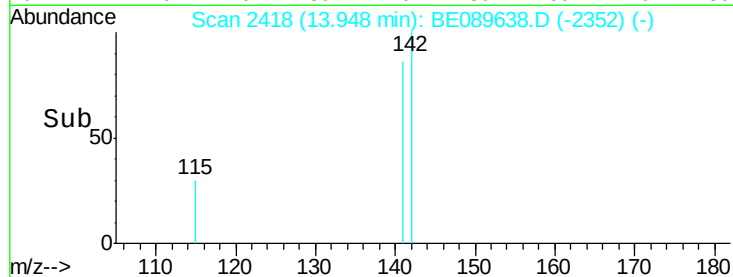
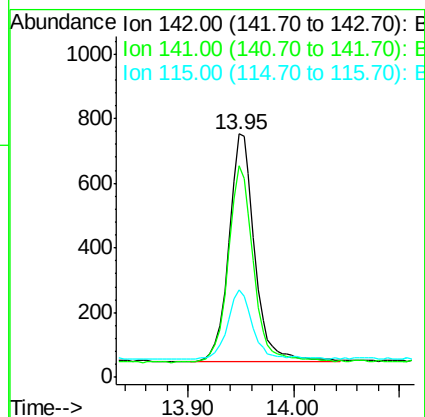
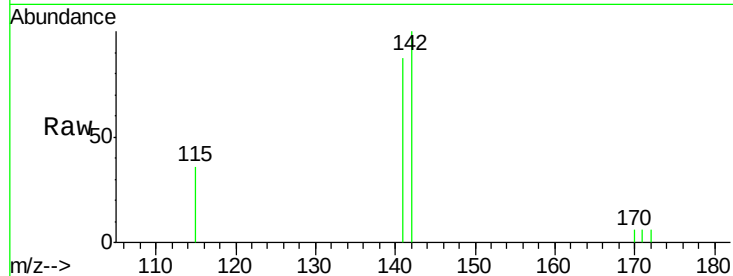
Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	1177
Ion	Ratio	Lower	Upper
142	100		
141	86.9	68.3	102.5
115	35.7	25.1	37.7



#8

Acenaphthene-d10

Concen: 5.00 ng

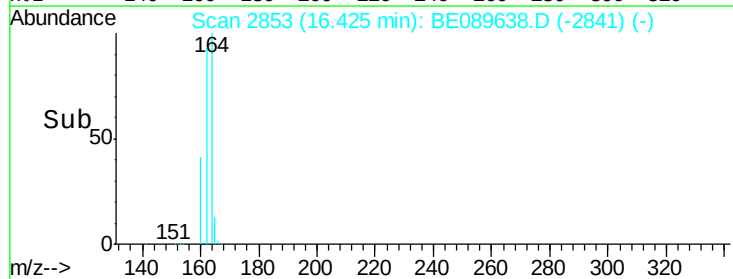
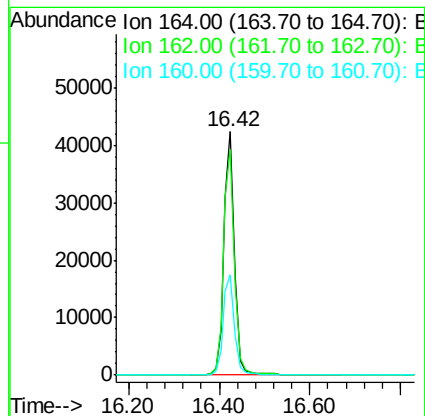
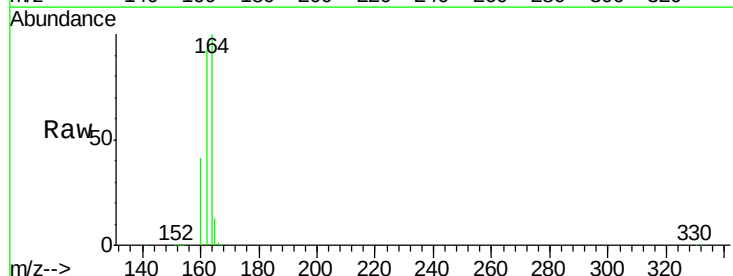
RT: 16.42 min Scan# 2853

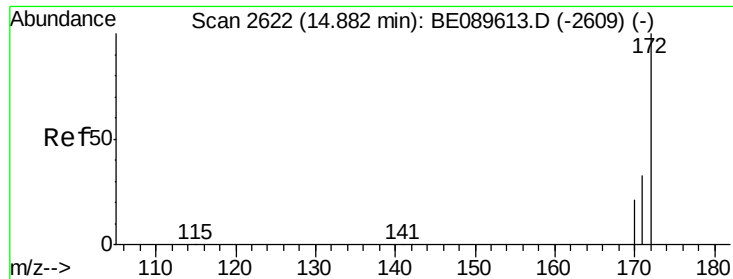
Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Tgt Ion:	164	Resp:	69078
Ion	Ratio	Lower	Upper
164	100		
162	92.7	77.5	116.3
160	41.0	35.5	53.3





#9

2-Fluorobiphenyl

Concen: 8.92 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampled :

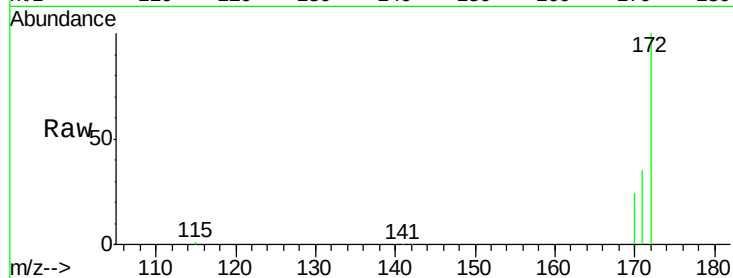
Tgt Ion:172 Resp: 164993

Ion Ratio Lower Upper

172 100

171 35.1 26.9 40.3

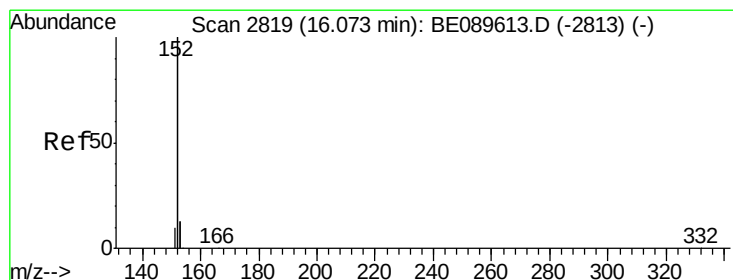
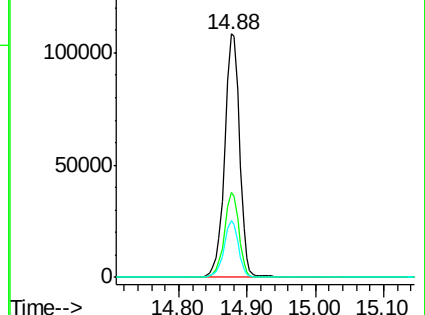
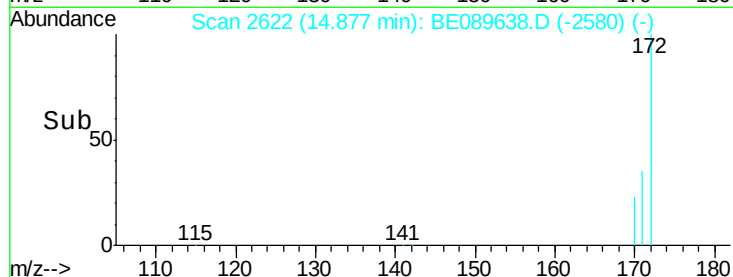
170 23.5 17.4 26.0



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: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

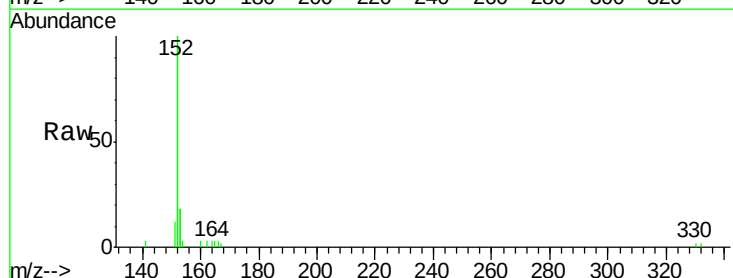
Tgt Ion:152 Resp: 6421

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

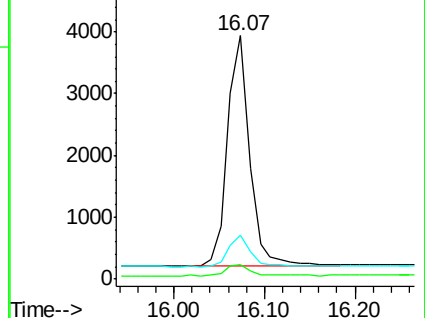
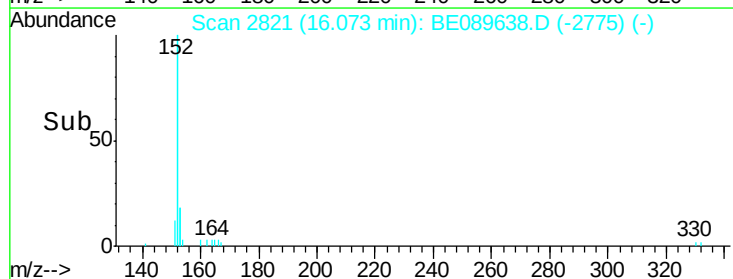
153 14.0 10.5 15.7

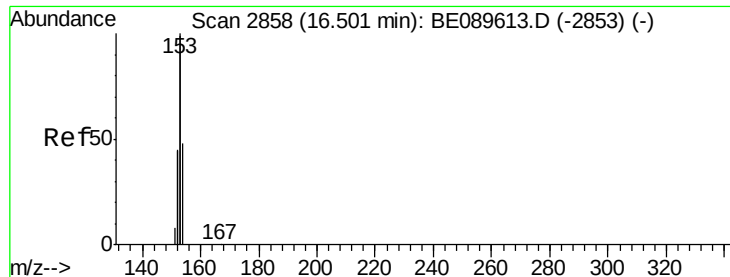


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.07 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

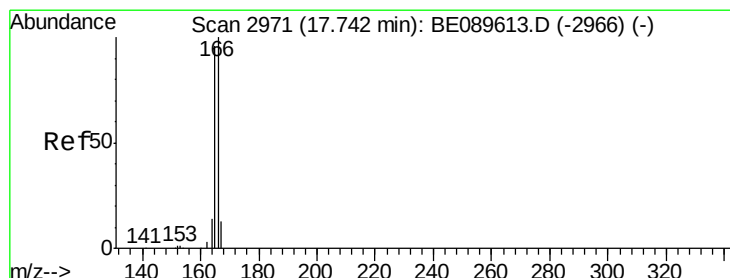
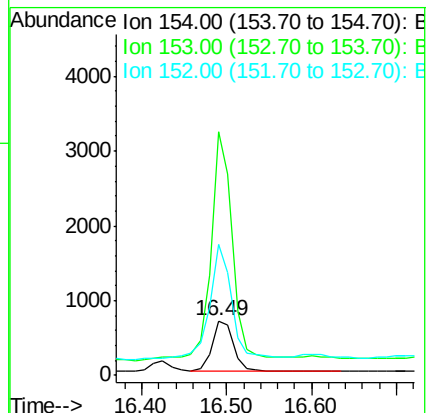
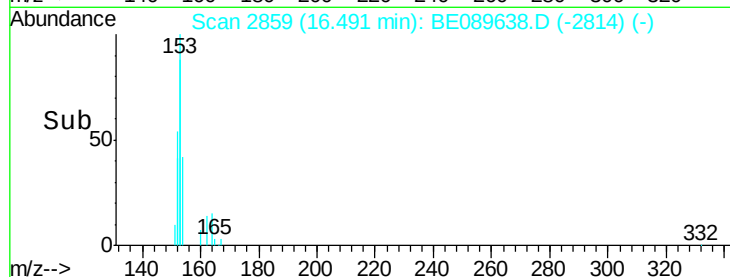
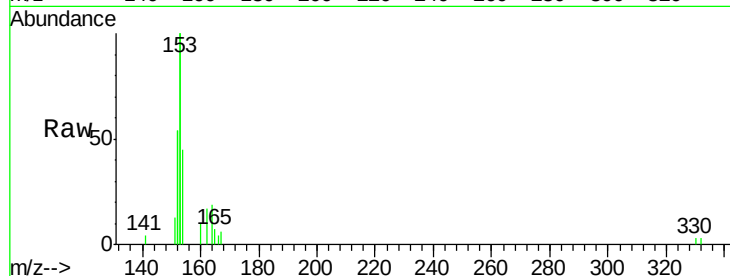
Tgt Ion:154 Resp: 1208

Ion Ratio Lower Upper

154 100

153 446.5 348.9 523.3

152 234.5 166.6 249.8



#12

Fluorene

Concen: 0.06 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

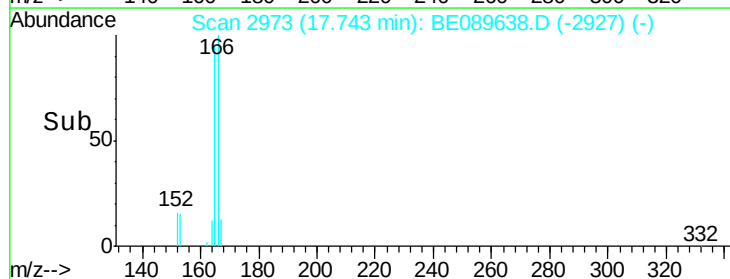
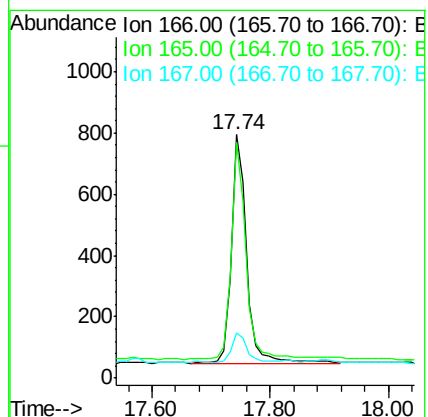
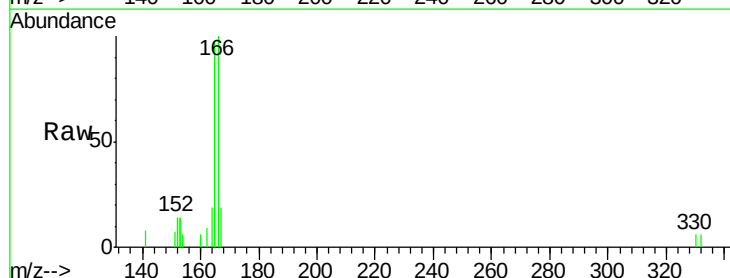
Tgt Ion:166 Resp: 1342

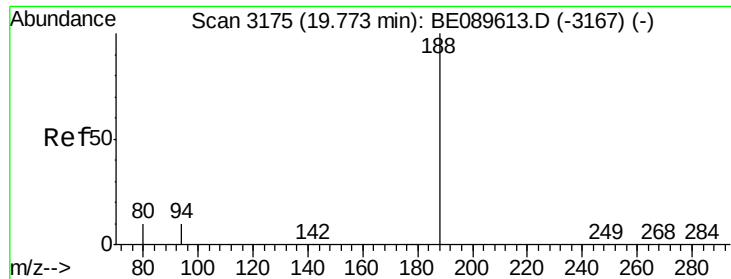
Ion Ratio Lower Upper

166 100

165 93.1 74.7 112.1

167 13.0 10.5 15.7





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

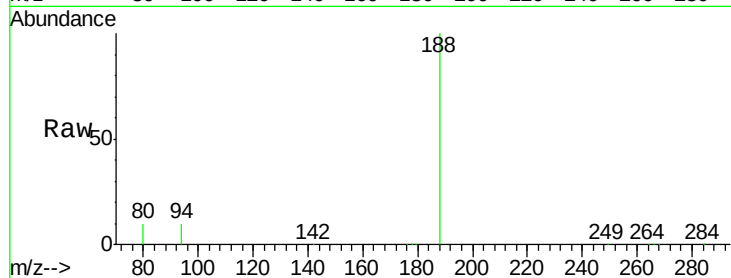
Tgt Ion:188 Resp: 134735

Ion Ratio Lower Upper

188 100

94 9.9 8.2 12.4

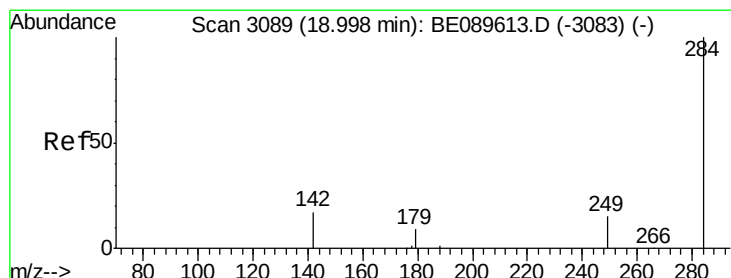
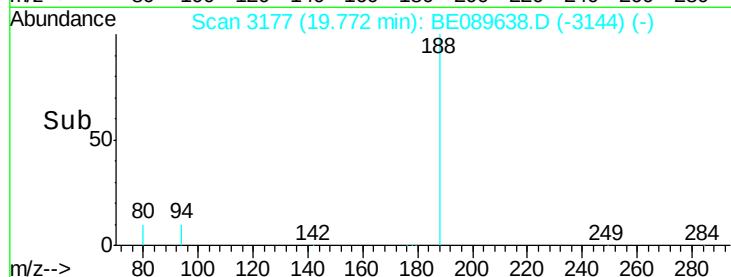
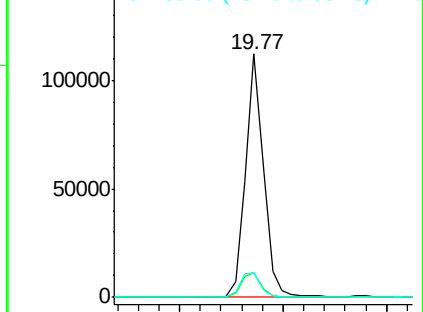
80 10.0 8.1 12.1



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: 0.07 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

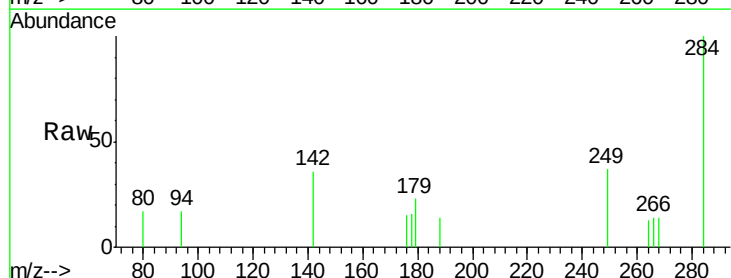
Tgt Ion:284 Resp: 430

Ion Ratio Lower Upper

284 100

142 44.2 32.3 48.5

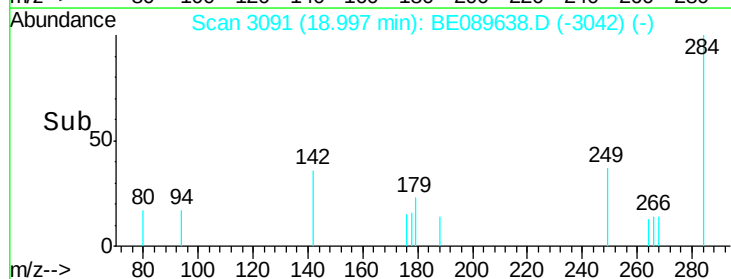
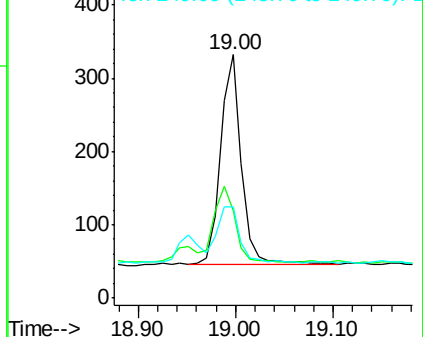
249 29.8 22.3 33.5

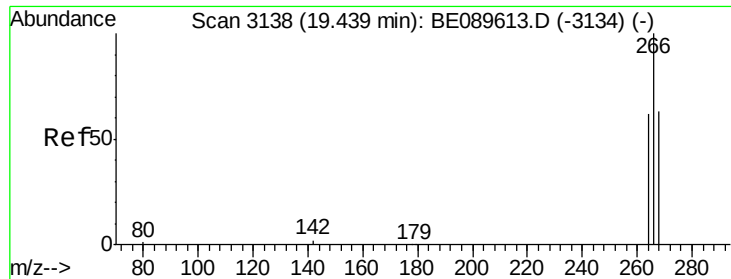


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

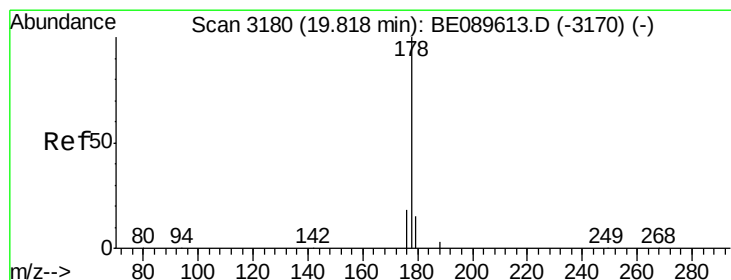
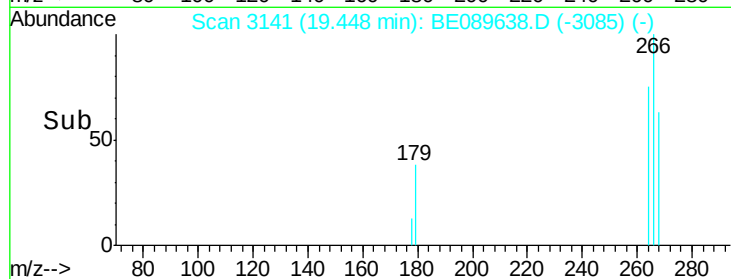
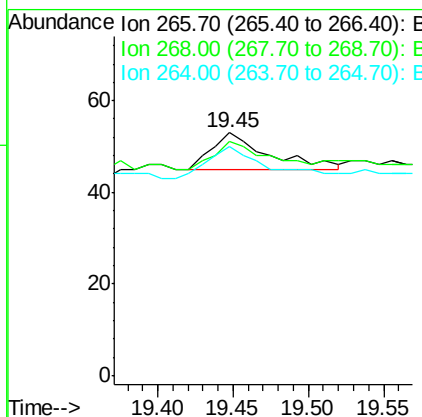
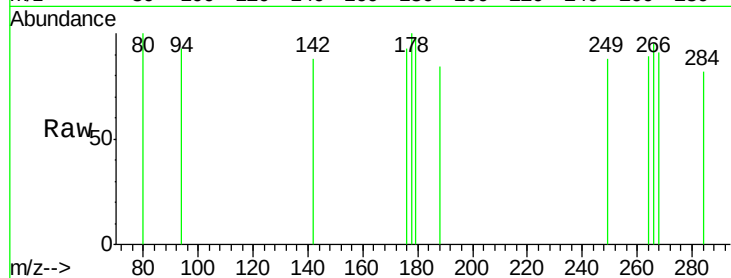




#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 15:15

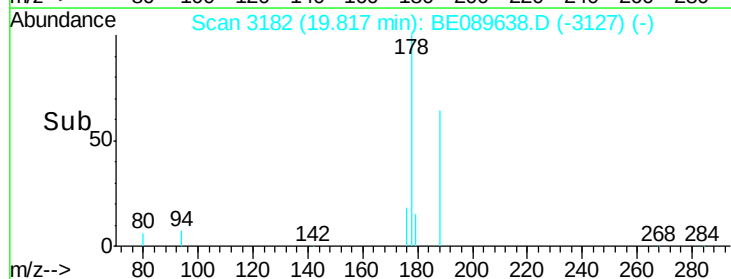
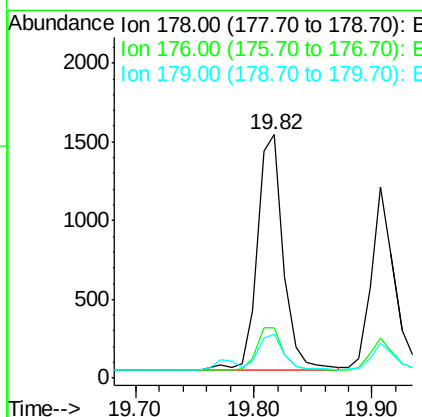
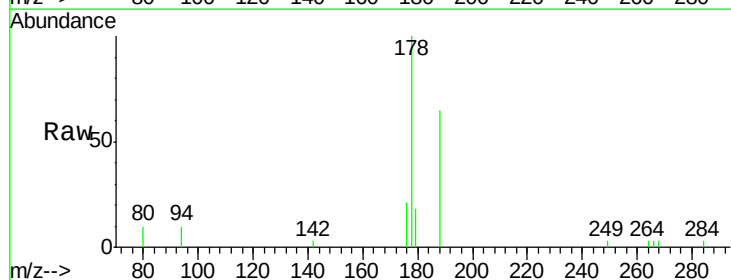
Instrument :
 BNA_E
 ClientSampleId :

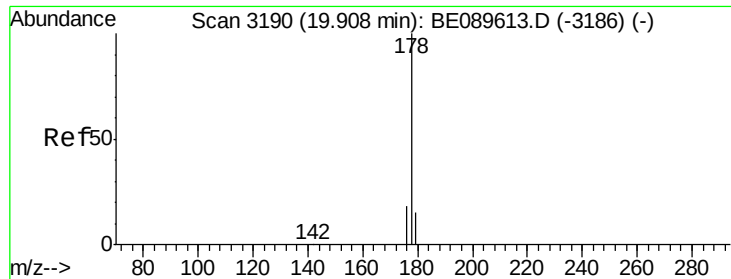
Tgt Ion: 266 Resp: 21
 Ion Ratio Lower Upper
 266 100
 268 96.2 52.6 79.0#
 264 94.3 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.07 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 15:15

Tgt Ion: 178 Resp: 2294
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 14.7 12.3 18.5

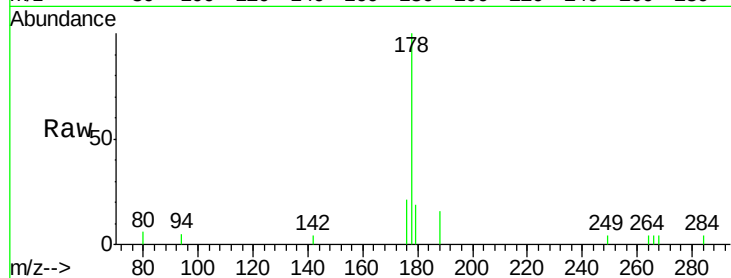




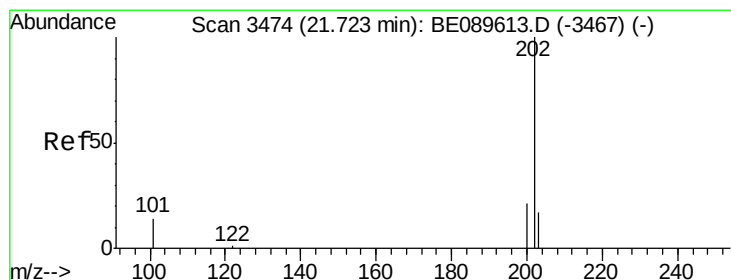
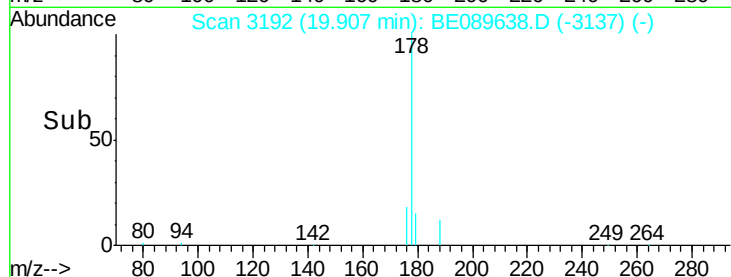
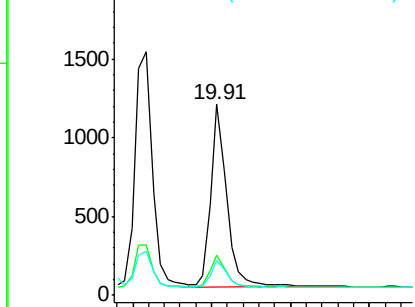
#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 15:15

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:178 Resp: 1632
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.6 22.0
 179 14.3 12.3 18.5

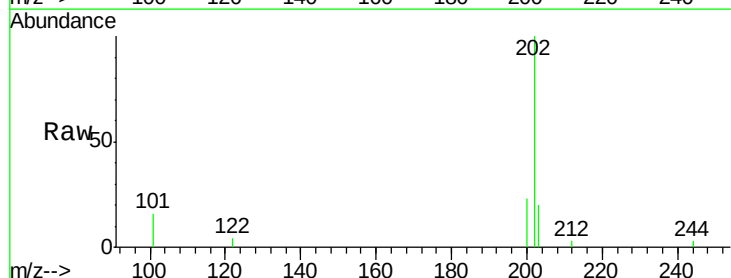


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

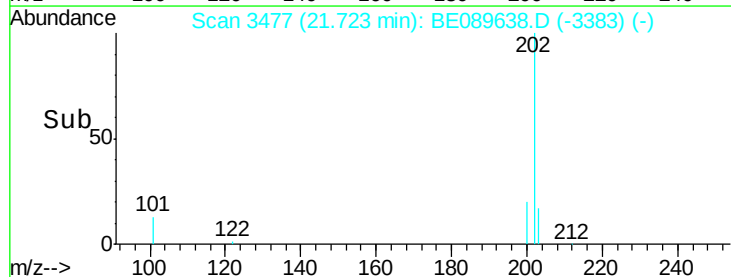
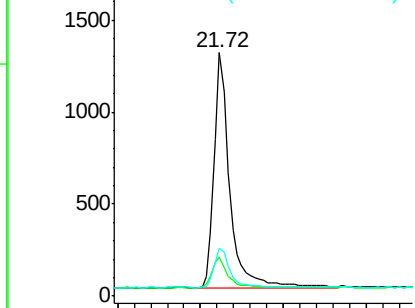


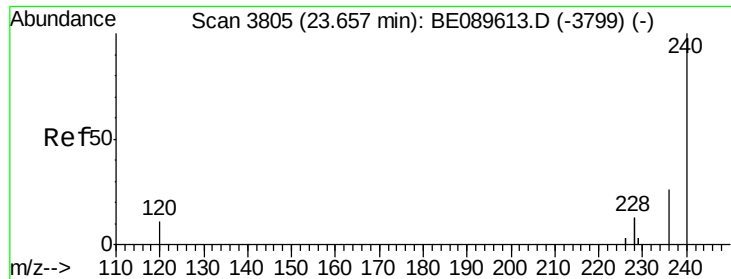
#18
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. 0.00 min
 Lab File: BE089638.D
 Acq: 19 Feb 2015 15:15

Tgt Ion:202 Resp: 1677
 Ion Ratio Lower Upper
 202 100
 101 12.6 10.4 15.6
 203 17.4 13.9 20.9



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# 3808

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

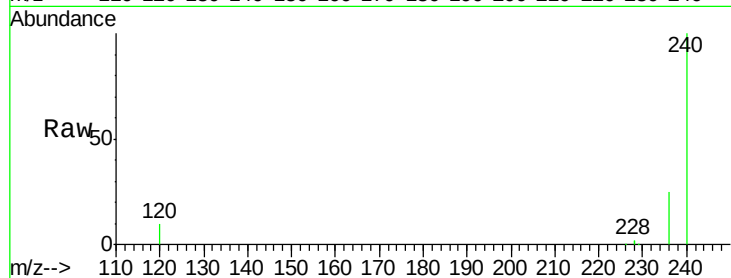
Tgt Ion:240 Resp: 120602

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.4

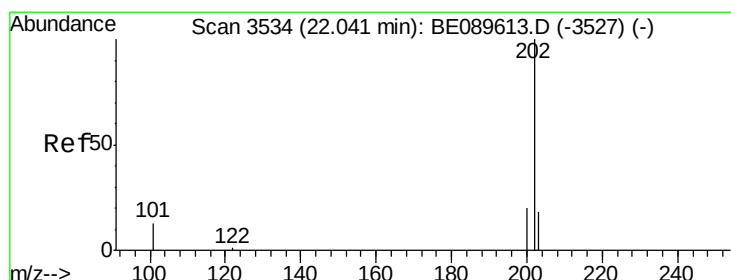
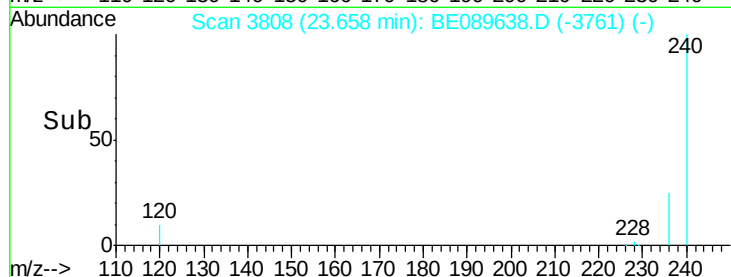
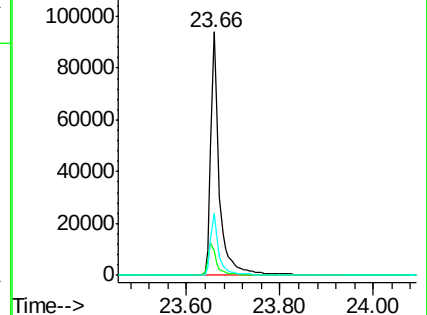
236 25.4 21.0 31.6



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: 0.06 ng

RT: 22.04 min Scan# 3537

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

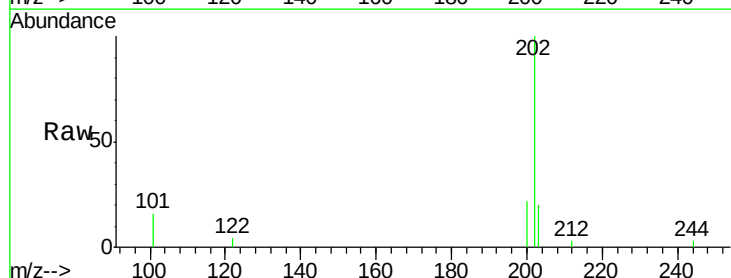
Tgt Ion:202 Resp: 1779

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

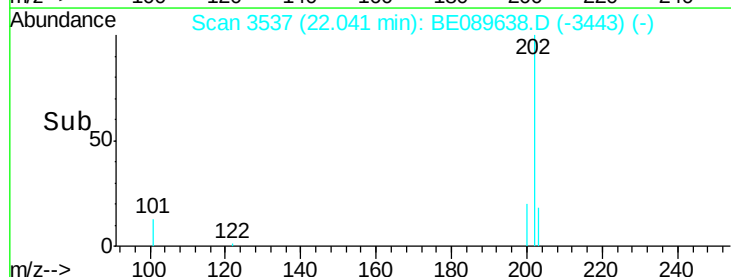
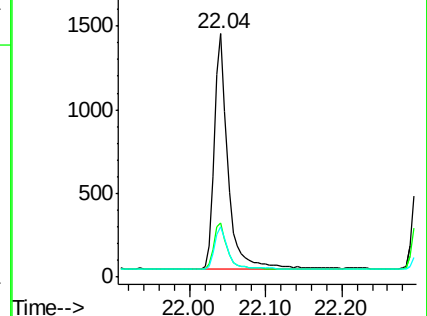
203 17.8 13.8 20.8

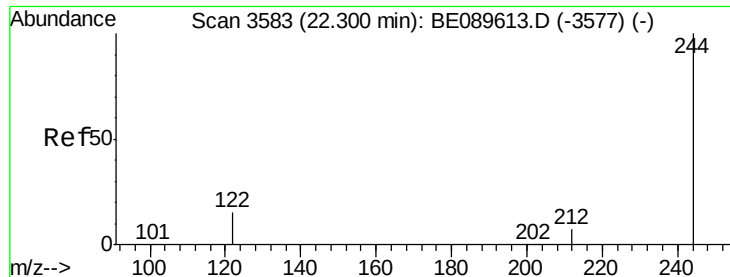


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.34 ng

RT: 22.30 min Scan# 3586

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

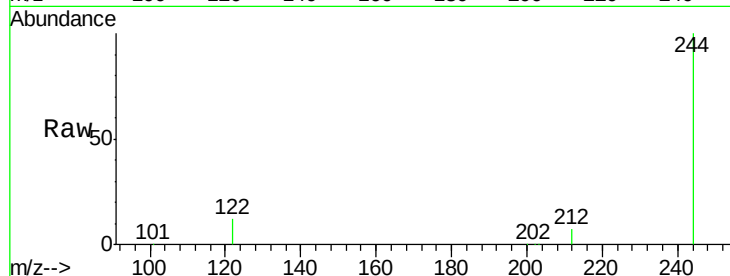
Tgt Ion:244 Resp: 196732

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

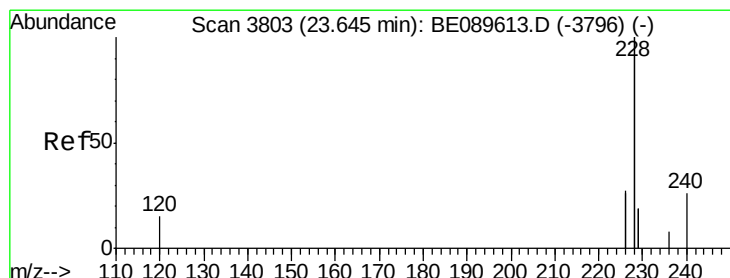
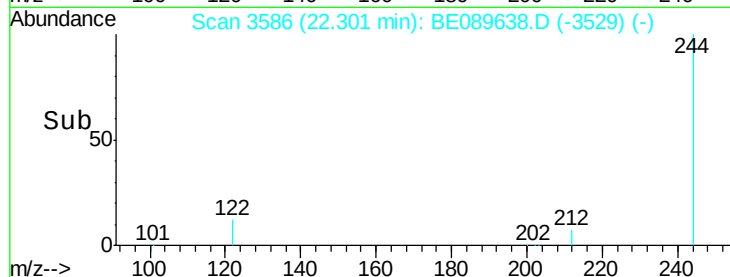
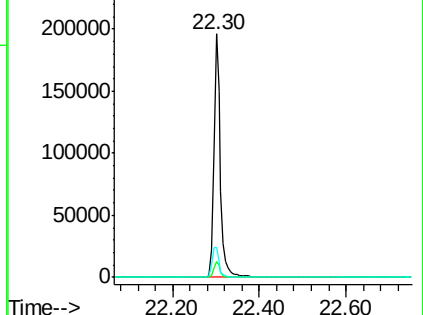
122 12.0 11.8 17.8



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: 0.06 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

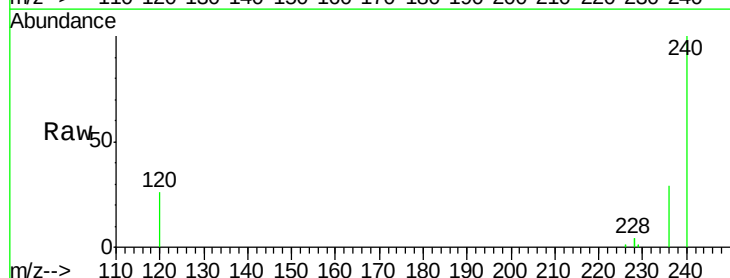
Tgt Ion:228 Resp: 6031

Ion Ratio Lower Upper

228 100

226 25.0 21.2 31.8

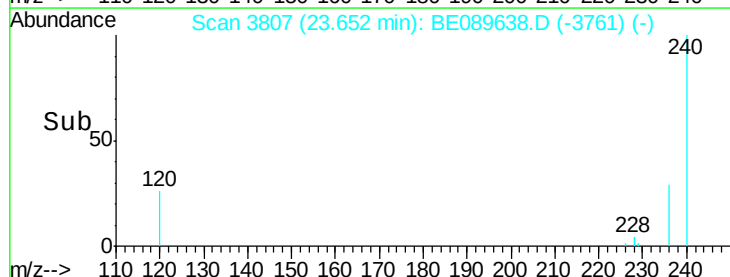
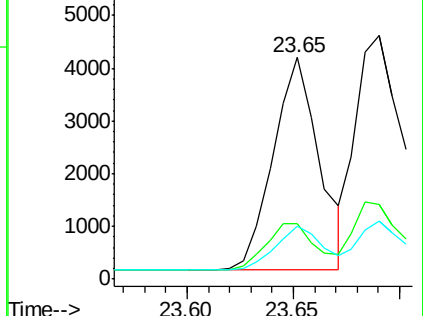
229 24.0 15.2 22.8#

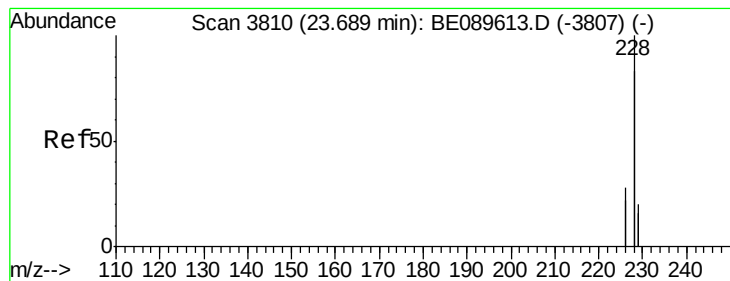


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.08 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.00 min

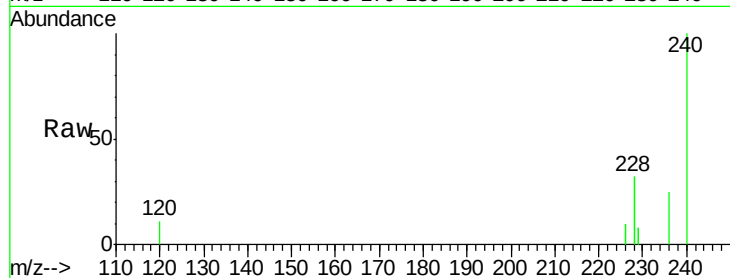
Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :



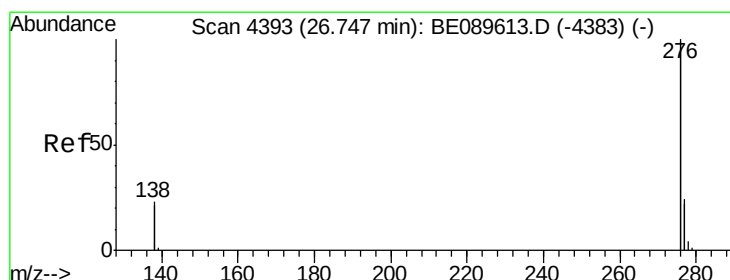
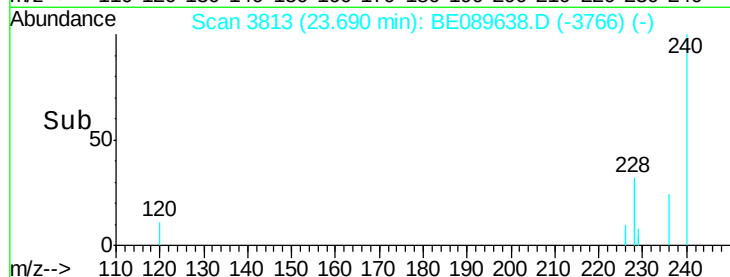
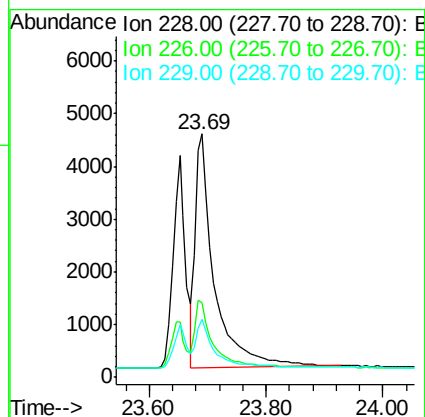
Tgt Ion:228 Resp: 9747

Ion Ratio Lower Upper

228 100

226 30.4 22.2 33.4

229 23.6 16.0 24.0



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.19 ng

RT: 26.75 min Scan# 4396

Delta R.T. 0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

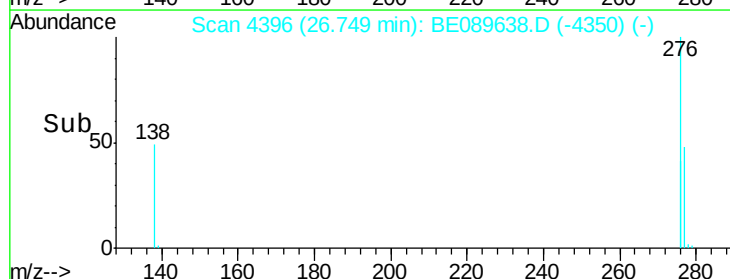
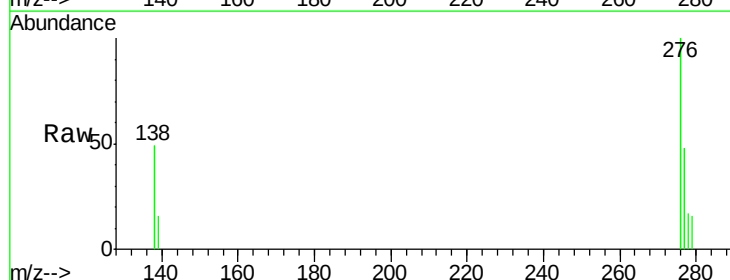
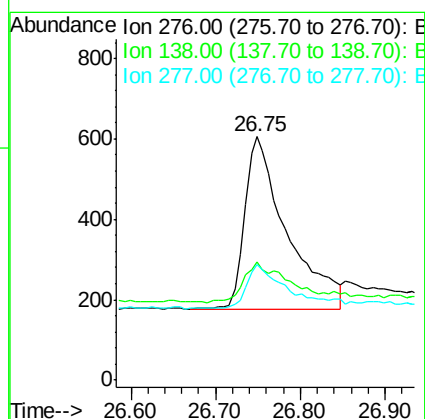
Tgt Ion:276 Resp: 1478

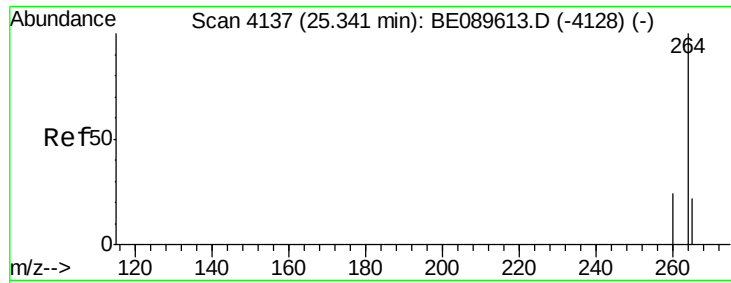
Ion Ratio Lower Upper

276 100

138 26.0 21.4 32.2

277 26.1 19.9 29.9

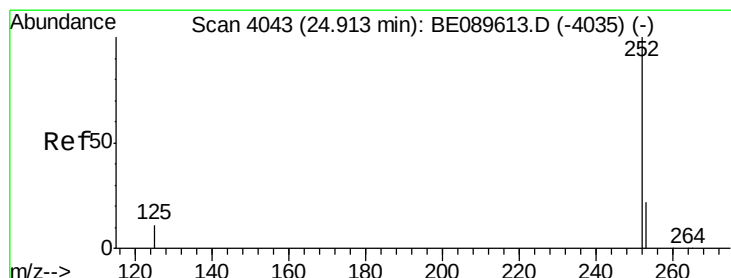
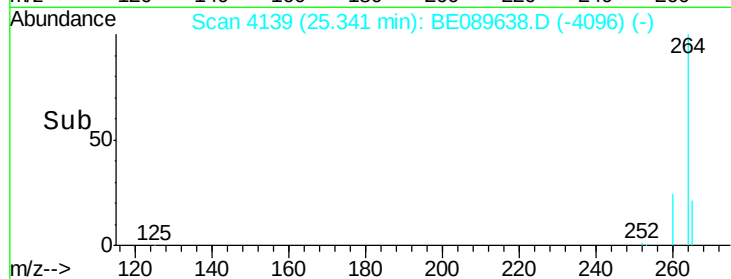
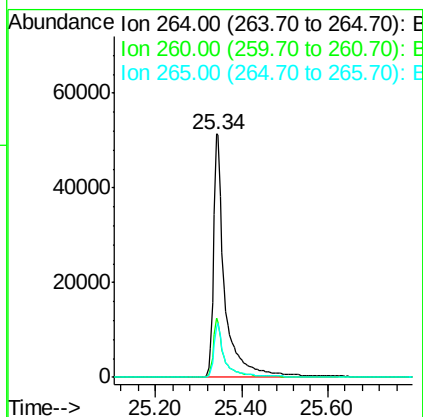
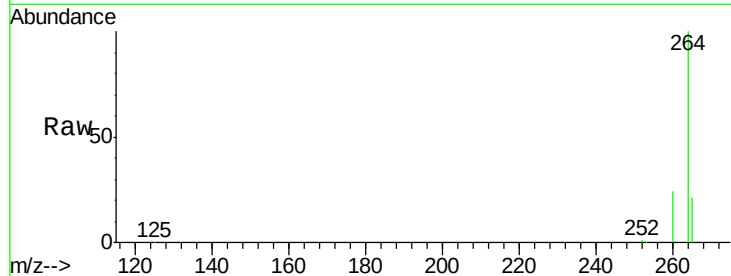




#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4139
Delta R.T. -0.00 min
Lab File: BE089638.D
Acq: 19 Feb 2015 15:15

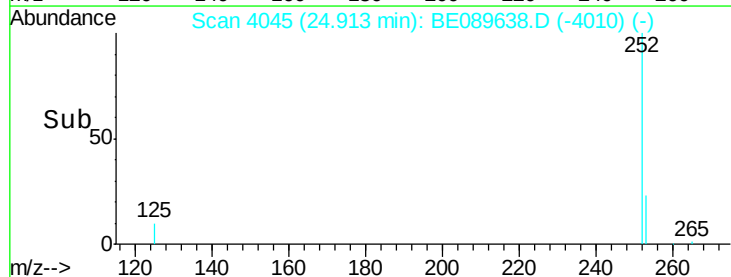
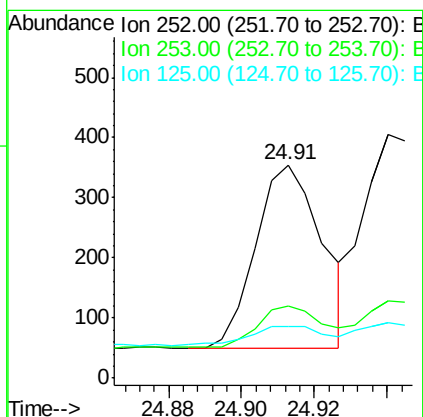
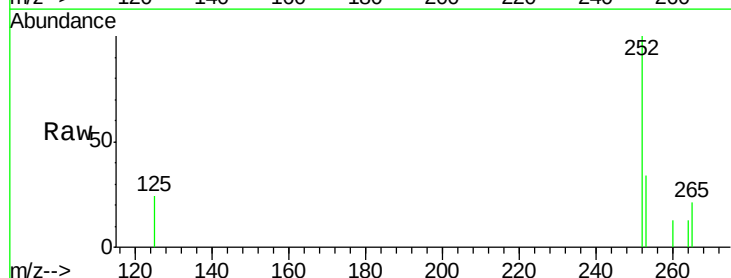
Instrument :
BNA_E
ClientSampleId :

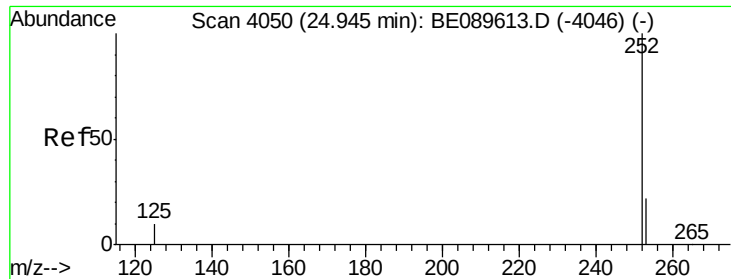
Tgt Ion:264 Resp: 95783
Ion Ratio Lower Upper
264 100
260 24.1 19.0 28.6
265 20.9 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.29 ng
RT: 24.91 min Scan# 4045
Delta R.T. 0.00 min
Lab File: BE089638.D
Acq: 19 Feb 2015 15:15

Tgt Ion:252 Resp: 387
Ion Ratio Lower Upper
252 100
253 33.5 17.6 26.4#
125 24.2 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :

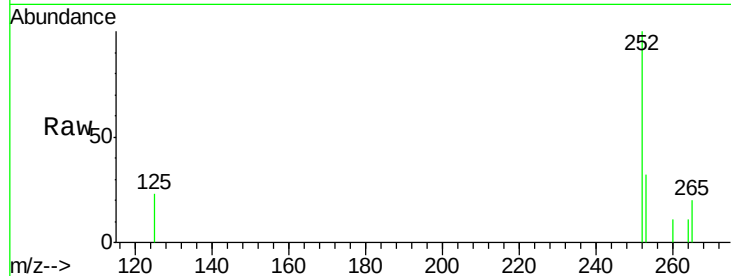
Tgt Ion:252 Resp: 712

Ion Ratio Lower Upper

252 100

253 31.9 17.7 26.5#

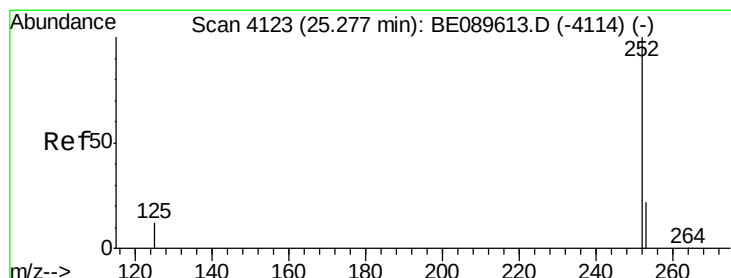
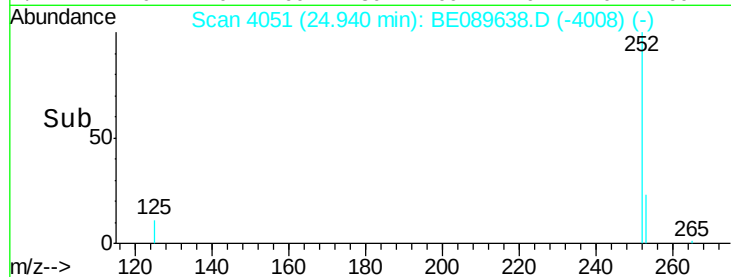
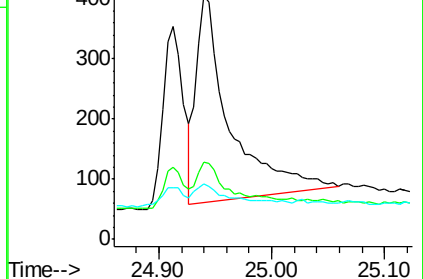
125 23.0 8.8 13.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4124

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

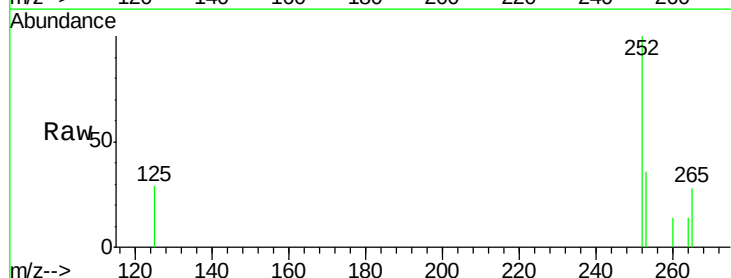
Tgt Ion:252 Resp: 407

Ion Ratio Lower Upper

252 100

253 36.4 18.1 27.1#

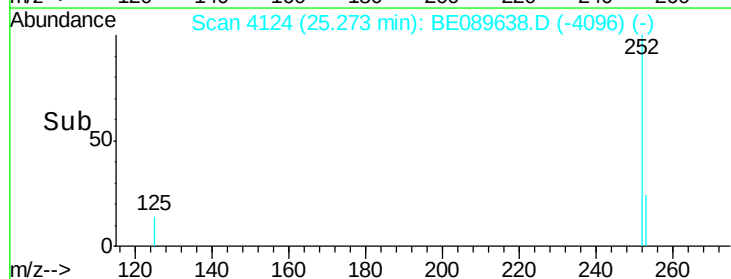
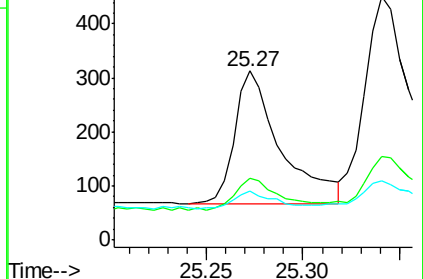
125 28.8 9.6 14.4#

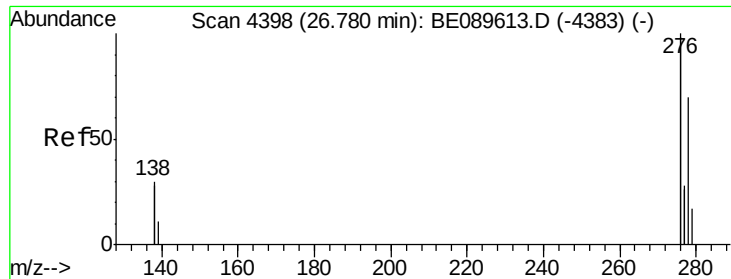


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.24 ng

RT: 26.78 min Scan# 4401

Delta R.T. 0.00 min

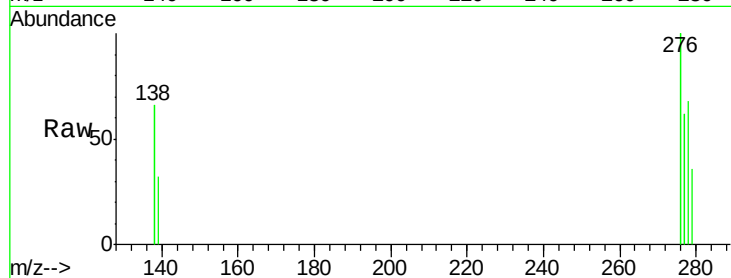
Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Instrument :

BNA_E

ClientSampleId :



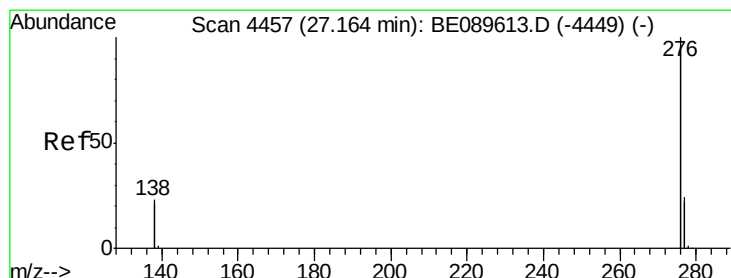
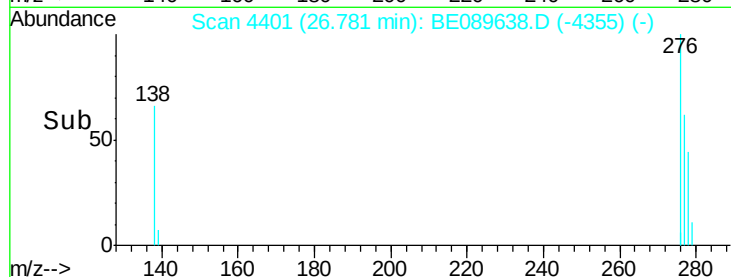
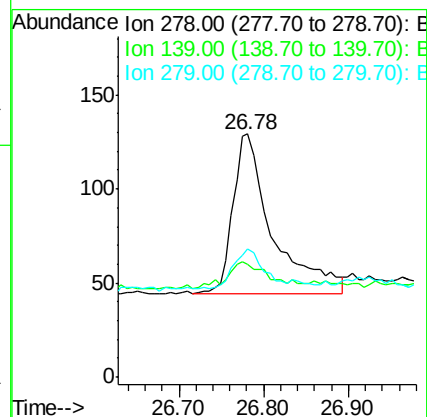
Tgt Ion: 278 Resp: 279

Ion Ratio Lower Upper

278 100

139 46.5 13.7 20.5#

279 52.7 19.7 29.5#



#30

Benzo(g,h,i)perylene

Concen: 0.15 ng

RT: 27.16 min Scan# 4459

Delta R.T. -0.00 min

Lab File: BE089638.D

Acq: 19 Feb 2015 15:15

Tgt Ion: 276 Resp: 1834

Ion Ratio Lower Upper

276 100

277 43.1 19.1 28.7#

138 44.8 18.7 28.1#

