

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089483.D
 Acq On : 1 Feb 2015 1:12
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 04:00:16 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

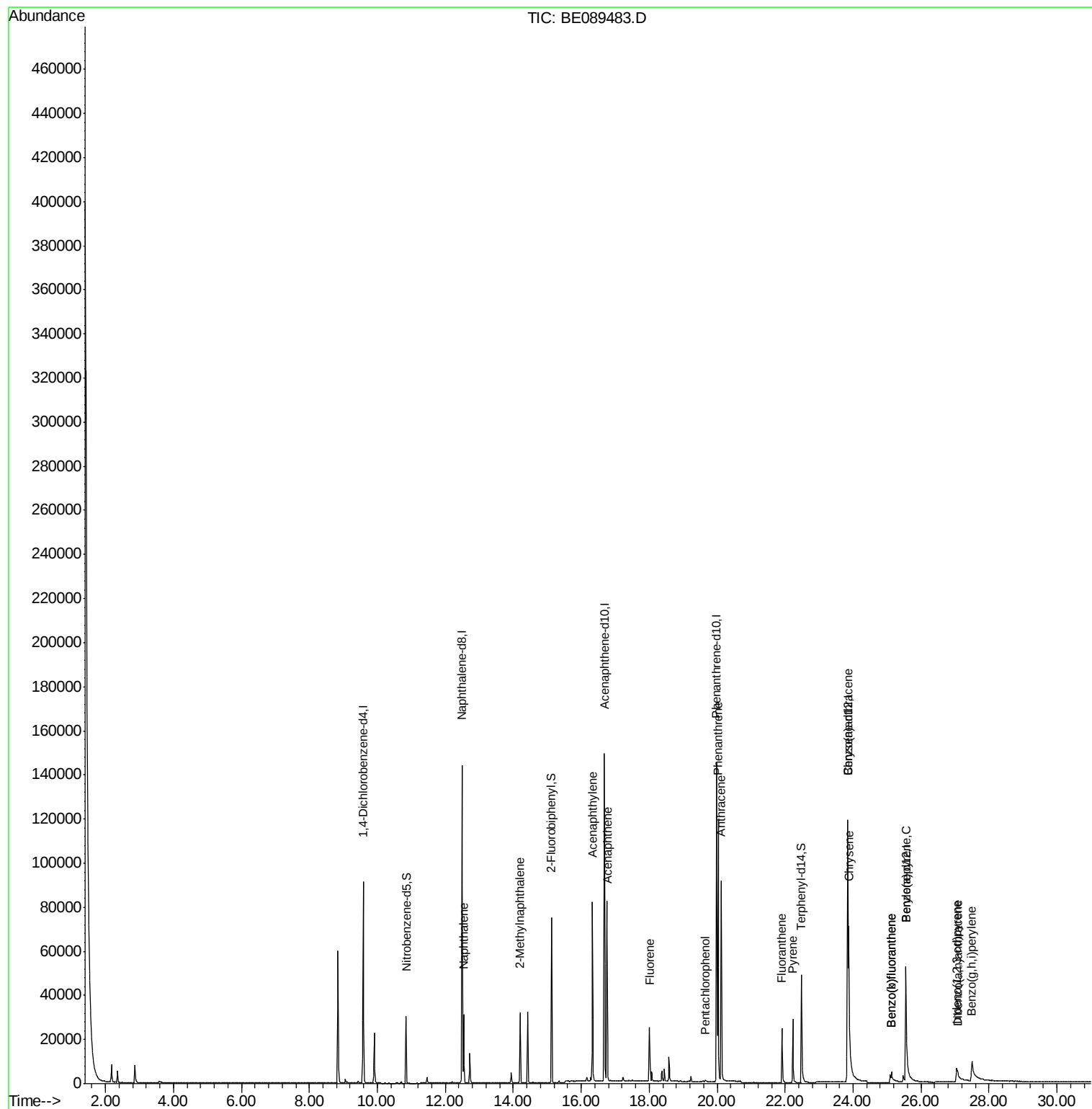
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	36832	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	158714	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	86826	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	139863	5.00	ng	0.00
16) Chrysene-d12	23.84	240	109337	5.00	ng	0.00
22) Perylene-d12	25.55	264	85673	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.84	82	21370	2.03	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	66616	2.91	ng	0.00
18) Terphenyl-d14	22.48	244	58467	3.57	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.54	128	34496	0.93	ng	100
5) 2-Methylnaphthalene	14.20	142	20170	0.90	ng	97
8) Acenaphthylene	16.34	152	106905	0.68	ng	100
9) Acenaphthene	16.76	154	17068	0.73	ng	100
10) Fluorene	18.02	166	18693	0.72	ng	100
12) Pentachlorophenol	19.65	266	605	0.76	ng	99
13) Phenanthrene	20.03	178	110958	0.81	ng	100
14) Anthracene	20.11	178	96900	0.77	ng	99
15) Fluoranthene	21.91	202	21971	0.73	ng	98
17) Pyrene	22.22	202	23894	0.82	ng	100
19) Benzo(a)anthracene	23.83	228	47626	0.52	ng	98
20) Chrysene	23.87	228	93347	0.90	ng	95
21) Indeno(1,2,3-cd)pyrene	27.05	276	14260	0.16	ng	# 86
23) Benzo(b)fluoranthene	25.13	252	11766	0.93	ng	95
24) Benzo(k)fluoranthene	25.13	252	11766	0.54	ng	# 95
25) Benzo(a)pyrene	25.55	252	6846	0.55	ng	93
26) Dibenzo(a,h)anthracene	27.08	278	3016	0.30	ng	# 86
27) Benzo(g,h,i)perylene	27.50	276	32724	0.48	ng	94

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

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.01 min

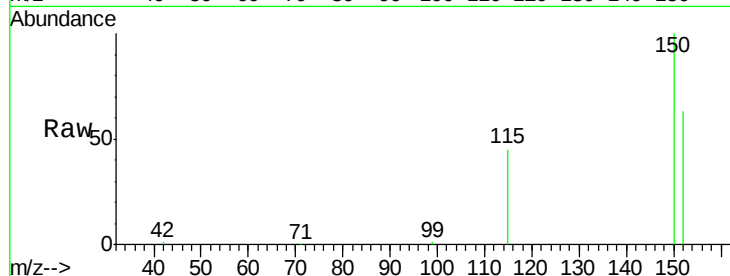
Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :



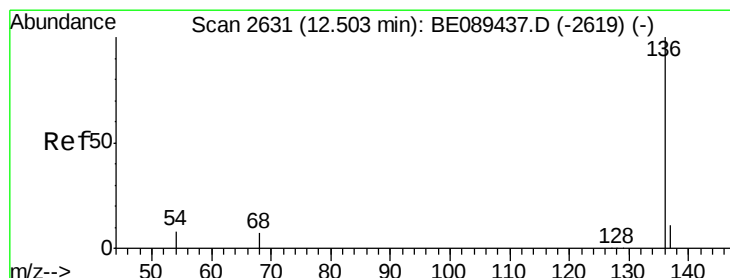
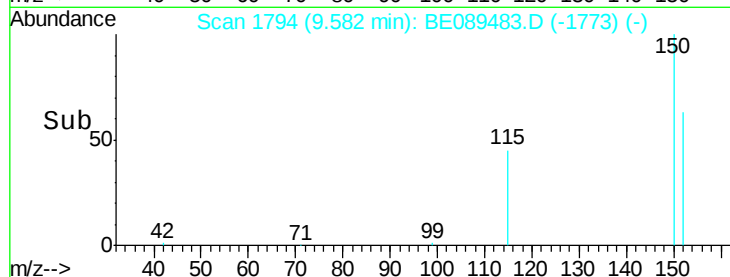
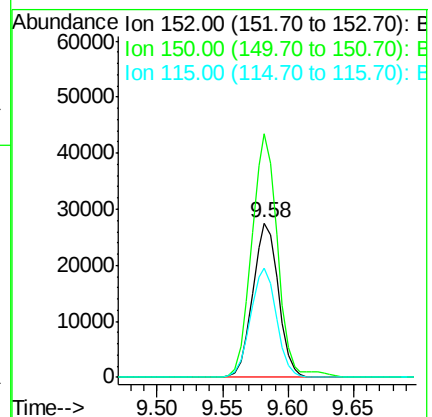
Tgt Ion:152 Resp: 36832

Ion Ratio Lower Upper

152 100

150 157.8 127.2 190.8

115 70.8 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.49 min Scan# 2628

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

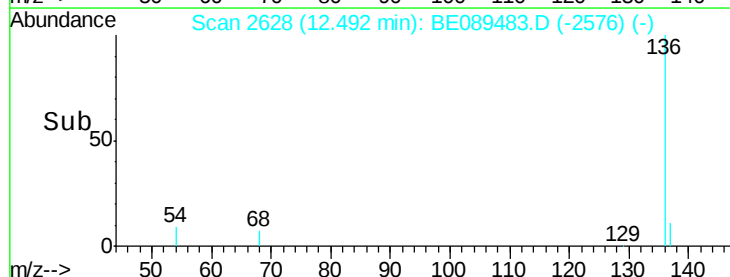
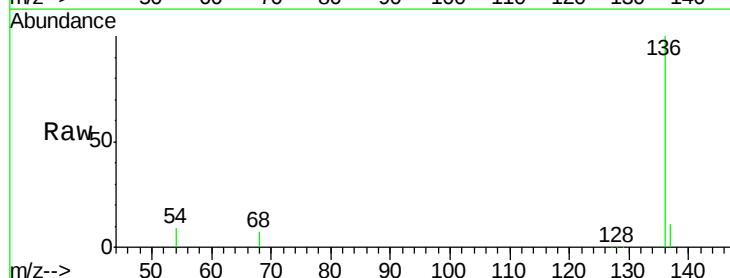
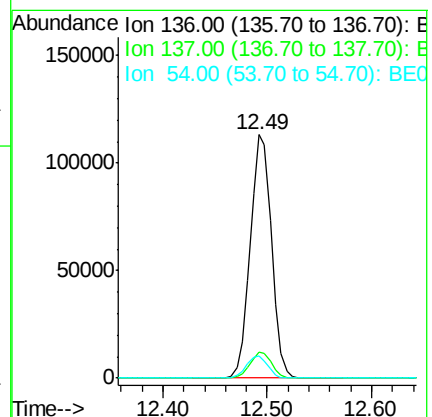
Tgt Ion:136 Resp: 158714

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 9.3 6.6 10.0





#3

Nitrobenzene-d5

Concen: 2.03 ng

RT: 10.84 min Scan# 2222

Delta R.T. -0.01 min

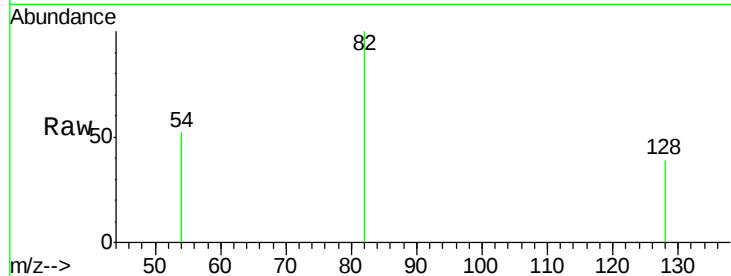
Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :



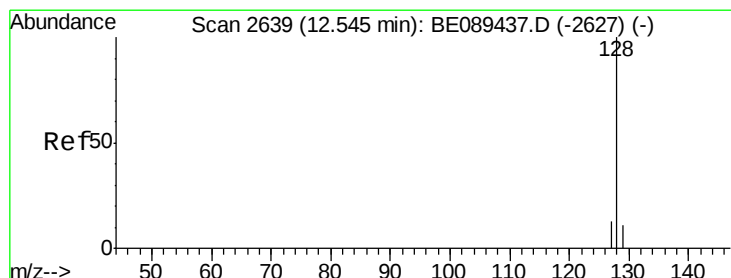
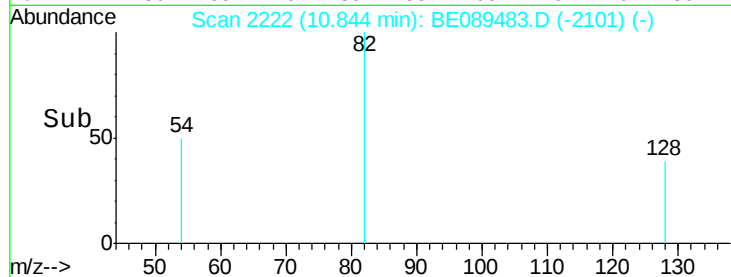
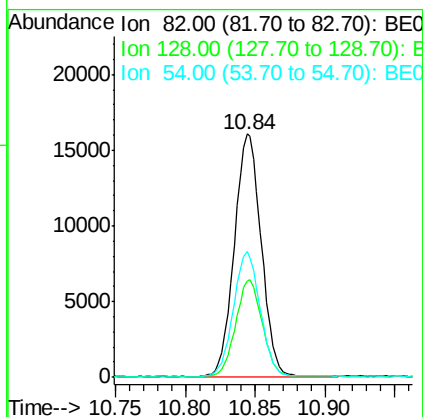
Tgt Ion: 82 Resp: 21370

Ion Ratio Lower Upper

82 100

128 39.4 31.2 46.8

54 51.6 41.9 62.9



#4

Naphthalene

Concen: 0.93 ng

RT: 12.54 min Scan# 2637

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

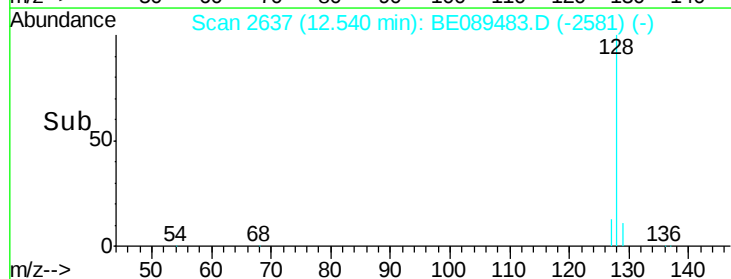
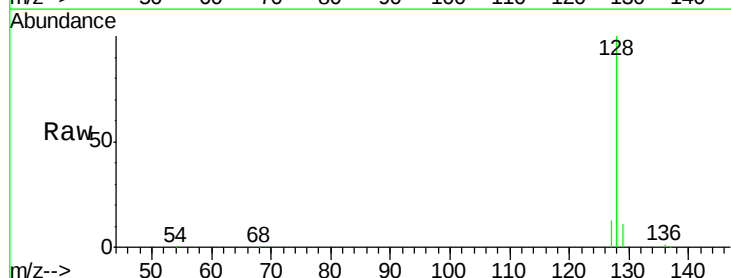
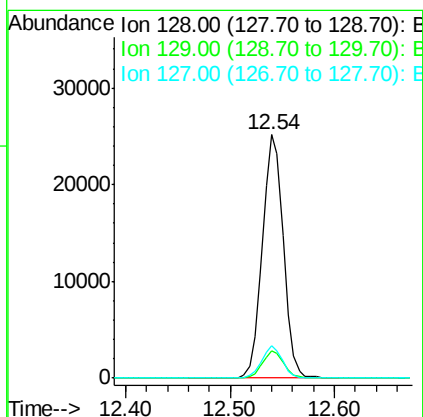
Tgt Ion: 128 Resp: 34496

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

127 13.1 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.90 ng

RT: 14.20 min Scan# 2975

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :

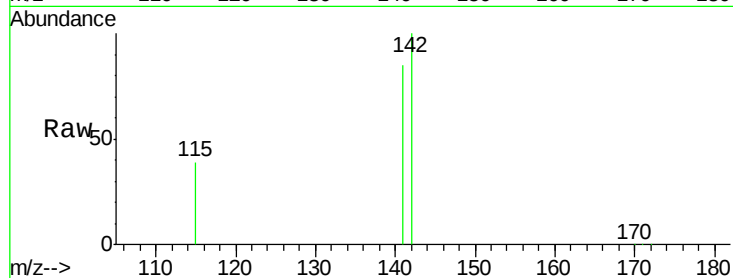
Tgt Ion:142 Resp: 20170

Ion Ratio Lower Upper

142 100

141 84.9 66.1 99.1

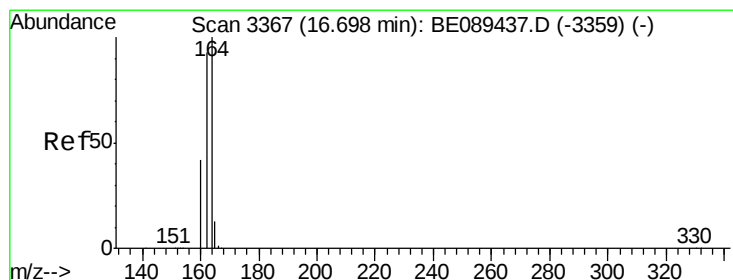
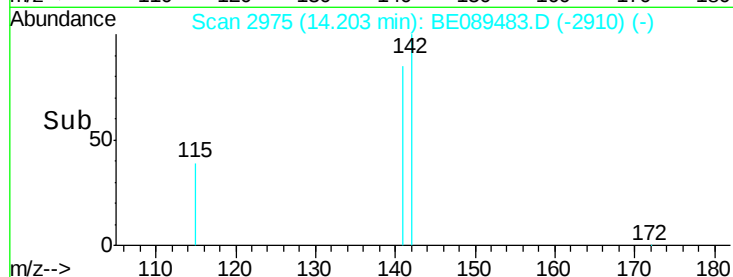
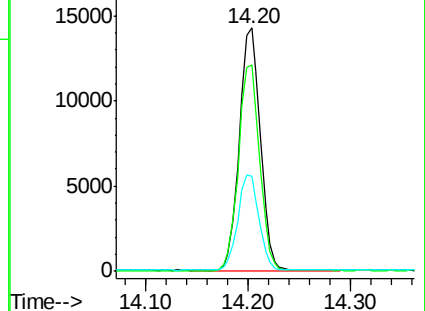
115 39.2 29.9 44.9



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.69 min Scan# 3365

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

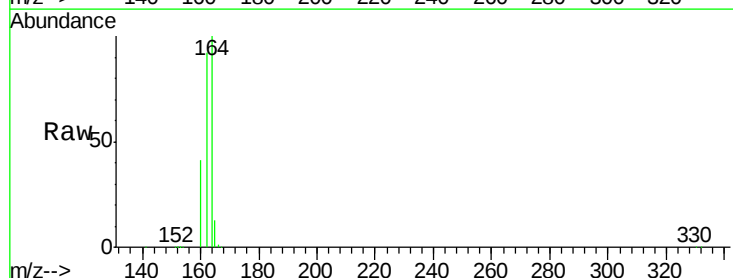
Tgt Ion:164 Resp: 86826

Ion Ratio Lower Upper

164 100

162 91.9 74.7 112.1

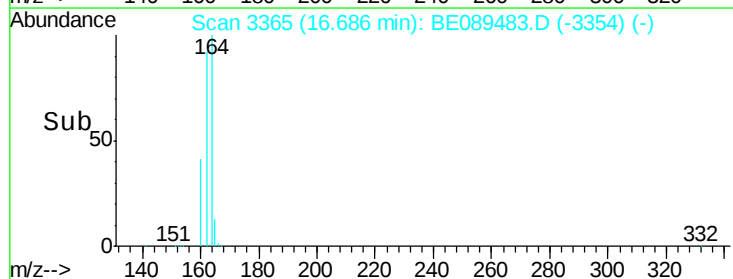
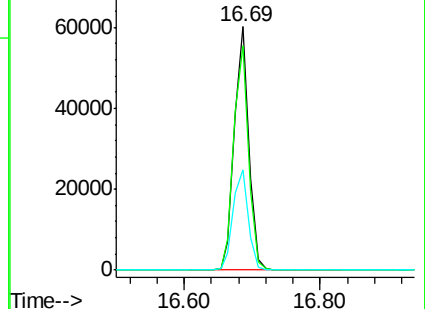
160 41.0 33.4 50.0



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





#7

2-Fluorobiphenyl

Concen: 2.91 ng

RT: 15.13 min Scan# 3179

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :

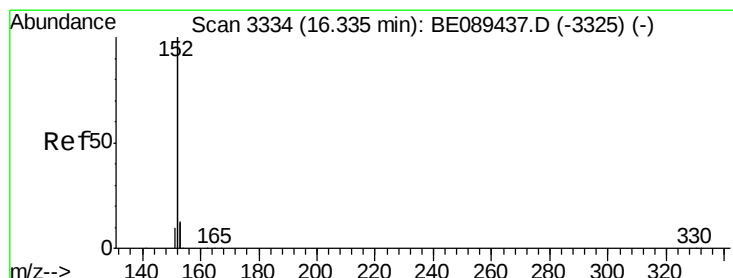
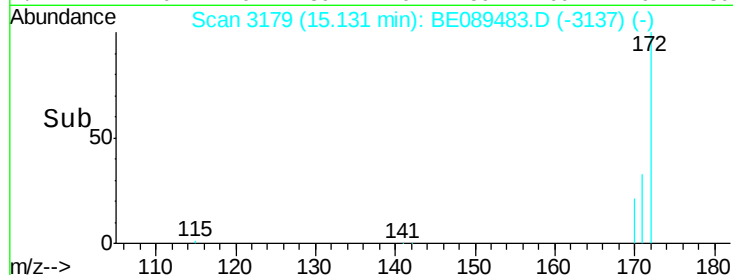
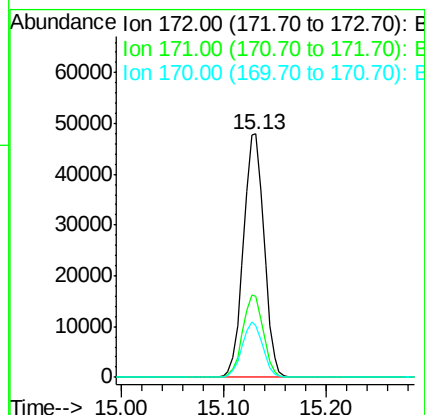
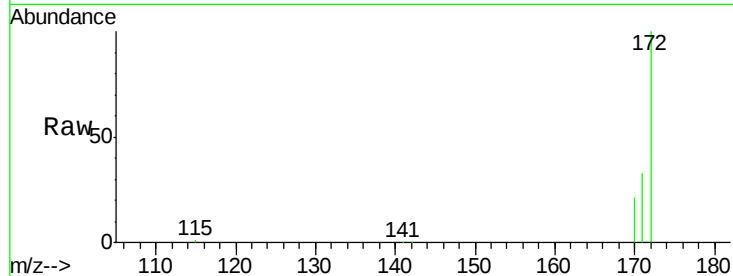
Tgt Ion:172 Resp: 66616

Ion Ratio Lower Upper

172 100

171 33.3 26.2 39.4

170 21.4 16.5 24.7



#8

Acenaphthylene

Concen: 0.68 ng

RT: 16.34 min Scan# 3333

Delta R.T. -0.00 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

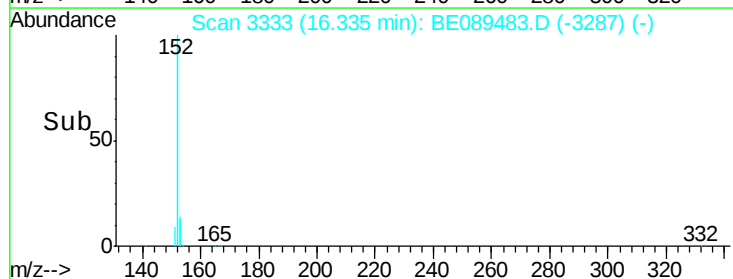
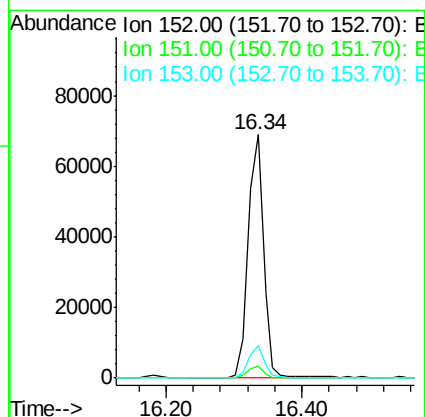
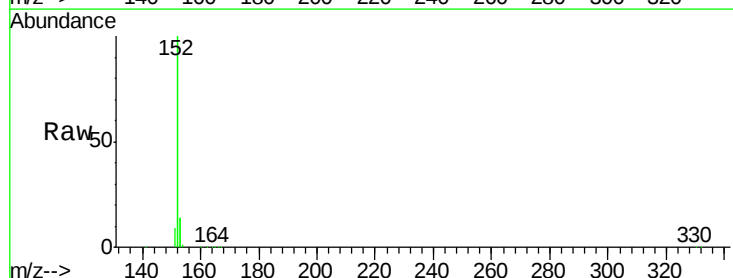
Tgt Ion:152 Resp: 106905

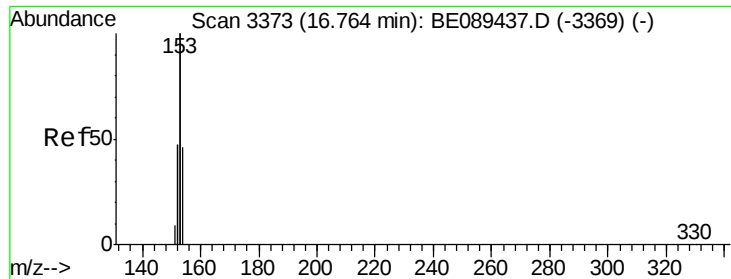
Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

153 12.9 10.3 15.5





#9

Acenaphthene

Concen: 0.73 ng

RT: 16.76 min Scan# 3372

Delta R.T. -0.00 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :

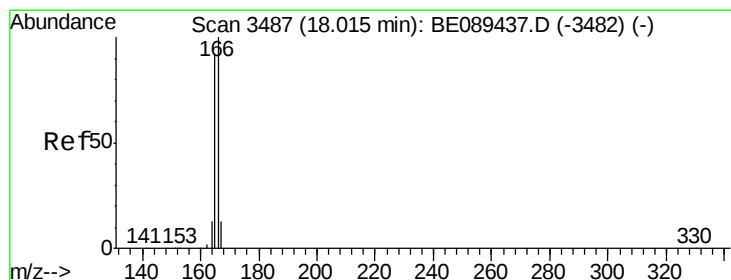
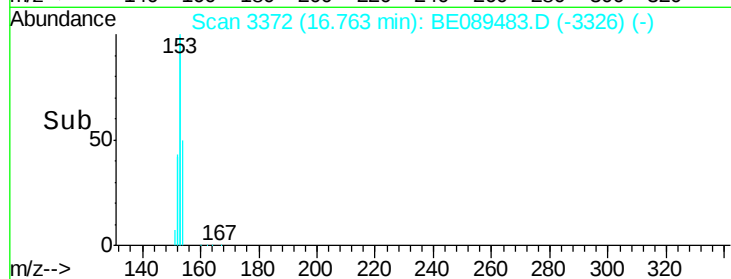
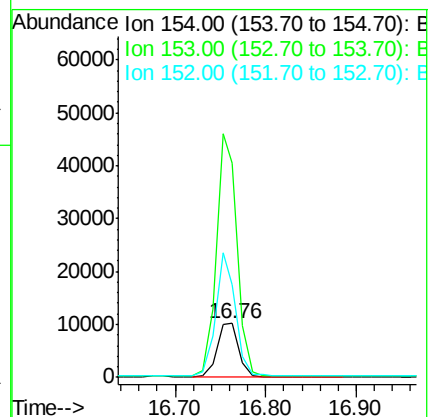
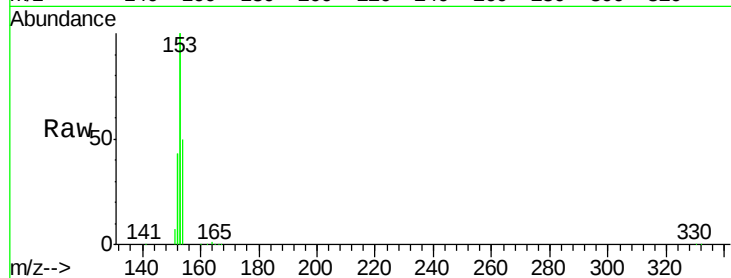
Tgt Ion:154 Resp: 17068

Ion Ratio Lower Upper

154 100

153 428.8 342.3 513.5

152 207.5 165.5 248.3



#10

Fluorene

Concen: 0.72 ng

RT: 18.02 min Scan# 3486

Delta R.T. -0.00 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

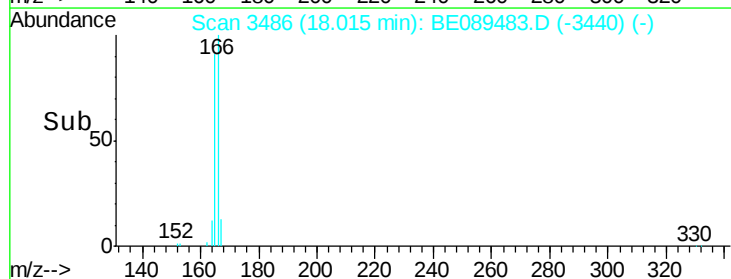
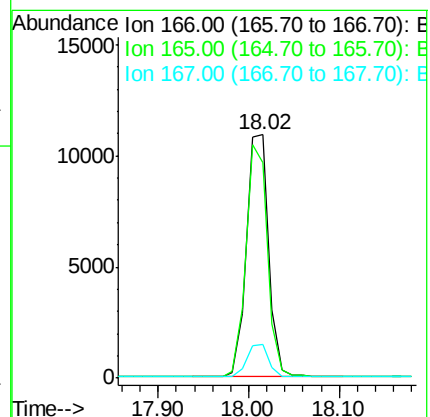
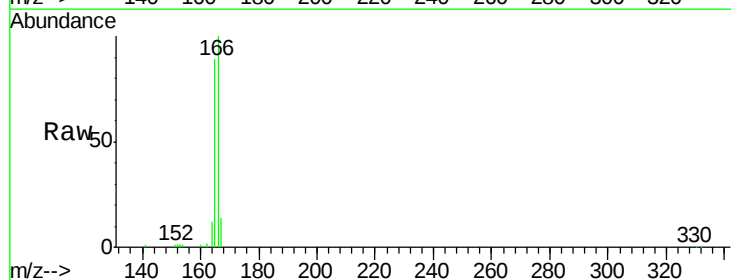
Tgt Ion:166 Resp: 18693

Ion Ratio Lower Upper

166 100

165 92.9 74.4 111.6

167 13.1 10.6 15.8

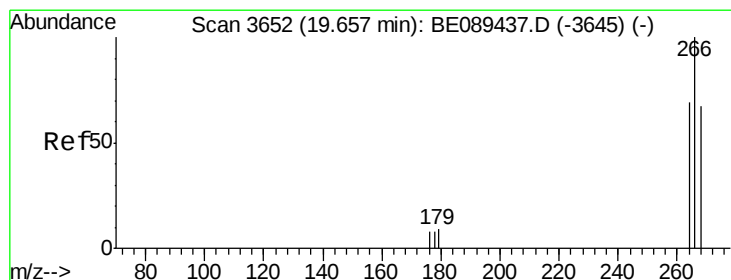
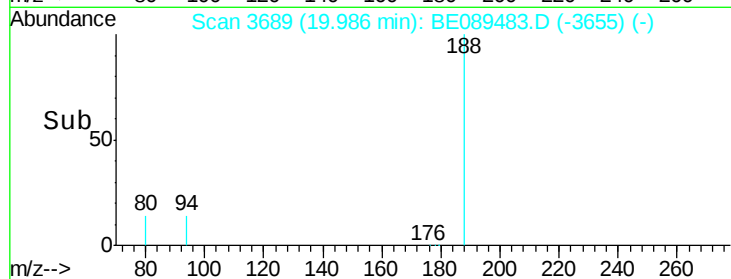
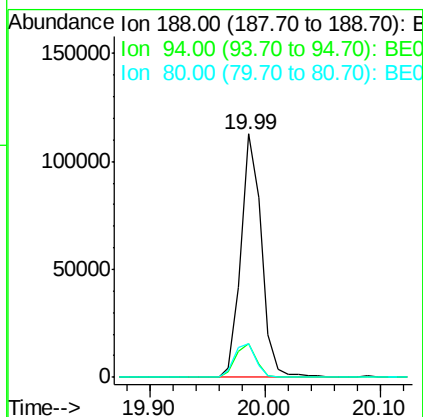
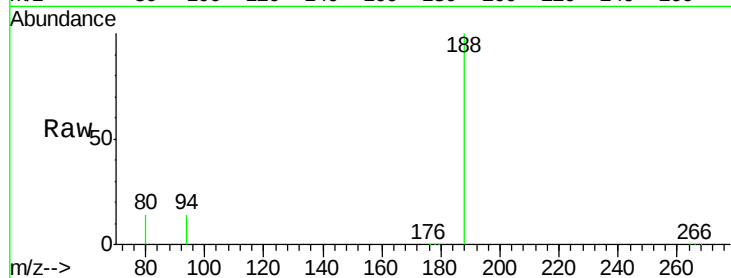




#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.99 min Scan# 3689
 Delta R.T. -0.01 min
 Lab File: BE089483.D
 Acq: 1 Feb 2015 1:12

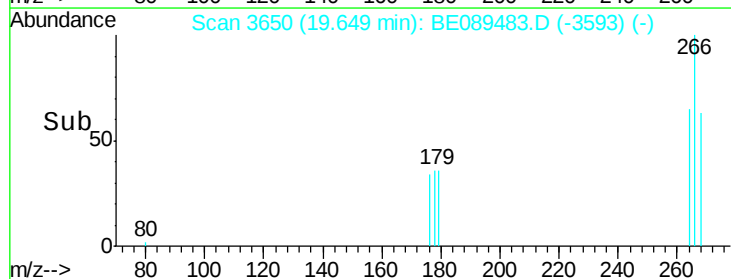
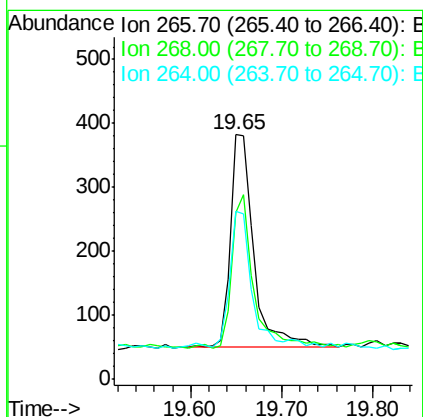
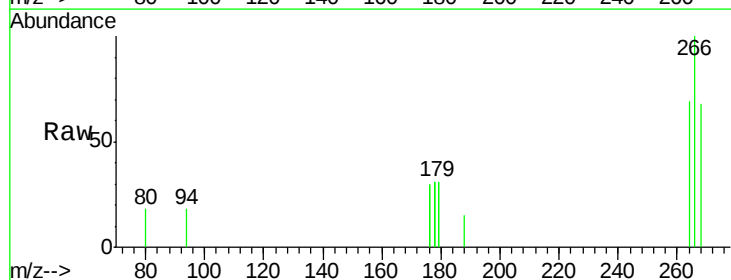
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:188 Resp: 139863
 Ion Ratio Lower Upper
 188 100
 94 13.7 9.4 14.0
 80 14.1 9.3 13.9#



#12
 Pentachlorophenol
 Concen: 0.76 ng
 RT: 19.65 min Scan# 3650
 Delta R.T. -0.01 min
 Lab File: BE089483.D
 Acq: 1 Feb 2015 1:12

Tgt Ion:266 Resp: 605
 Ion Ratio Lower Upper
 266 100
 268 68.1 54.2 81.4
 264 68.6 56.2 84.2





#13

Phenanthrene

Concen: 0.81 ng

RT: 20.03 min Scan# 3694

Delta R.T. 0.00 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :

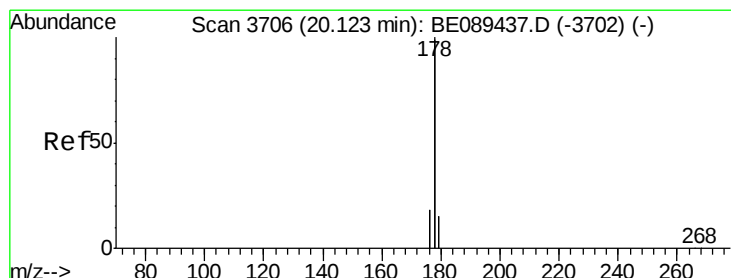
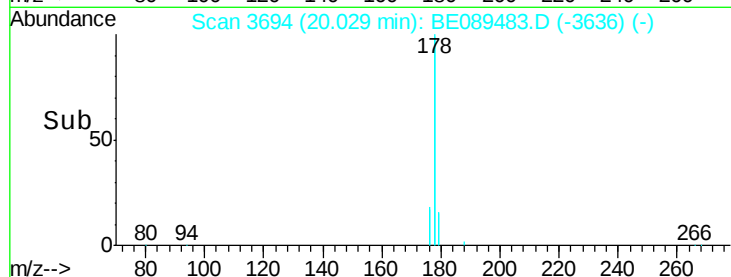
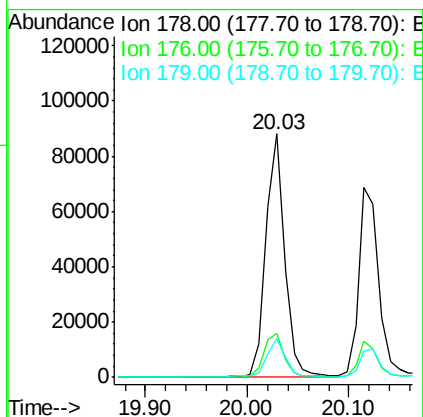
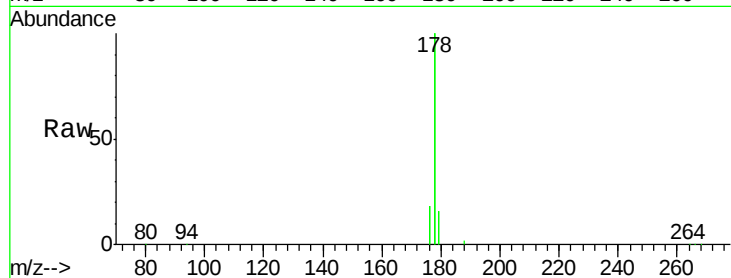
Tgt Ion:178 Resp: 110958

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 15.5 12.3 18.5



#14

Anthracene

Concen: 0.77 ng

RT: 20.11 min Scan# 3704

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

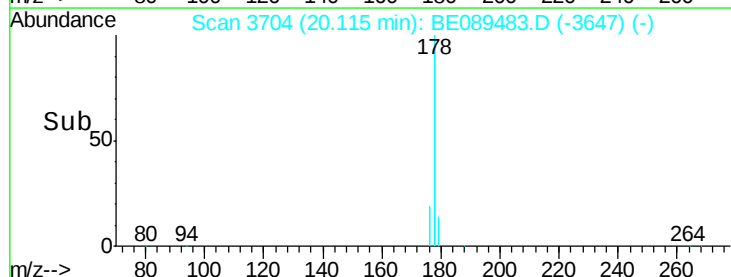
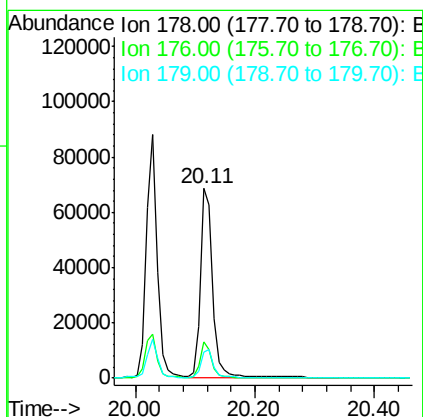
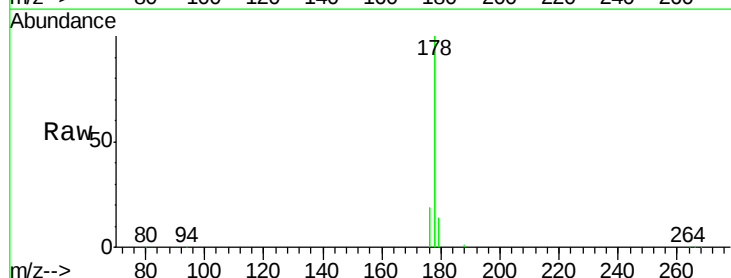
Tgt Ion:178 Resp: 96900

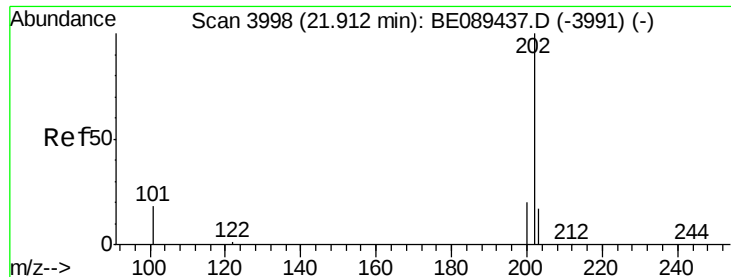
Ion Ratio Lower Upper

178 100

176 17.5 14.6 22.0

179 14.8 12.2 18.2

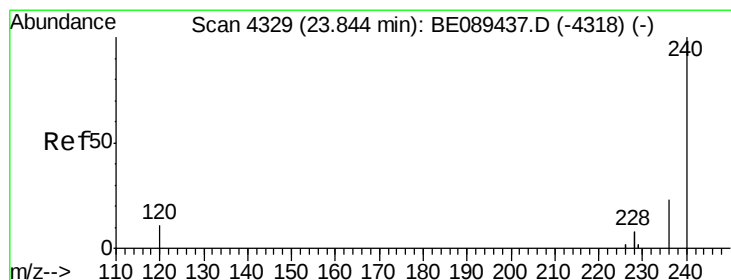
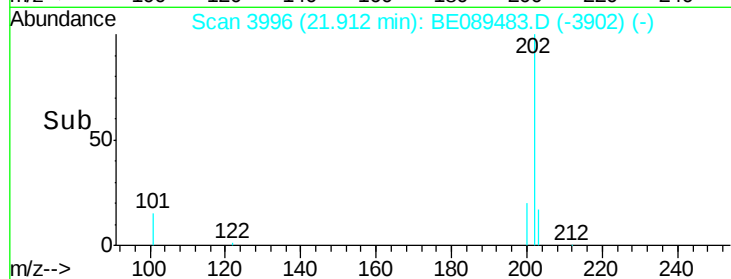
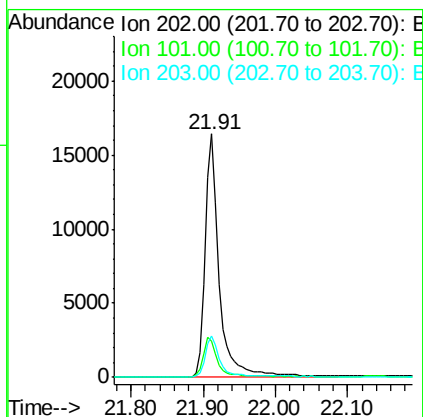
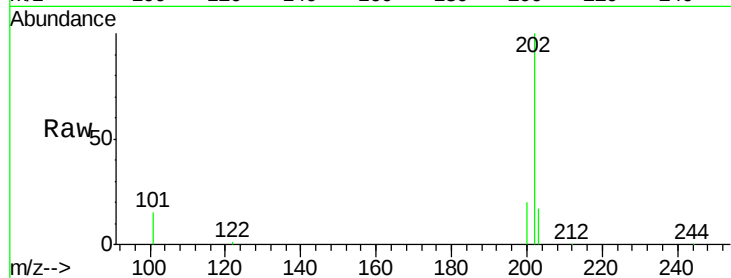




#15
 Fluoranthene
 Concen: 0.73 ng
 RT: 21.91 min Scan# 3996
 Delta R.T. -0.00 min
 Lab File: BE089483.D
 Acq: 1 Feb 2015 1:12

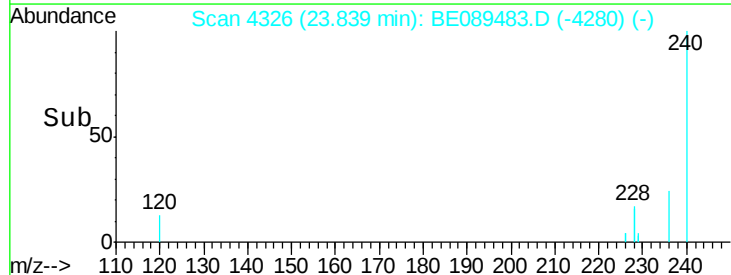
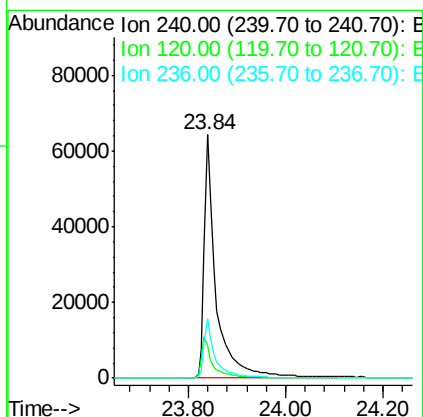
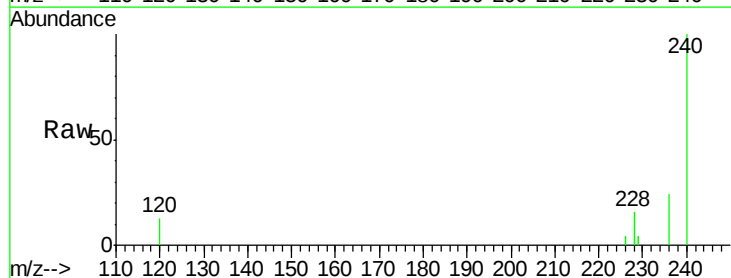
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 21971
 Ion Ratio Lower Upper
 202 100
 101 16.1 13.6 20.4
 203 16.8 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4326
 Delta R.T. -0.01 min
 Lab File: BE089483.D
 Acq: 1 Feb 2015 1:12

Tgt Ion: 240 Resp: 109337
 Ion Ratio Lower Upper
 240 100
 120 13.3 8.6 13.0#
 236 24.2 18.7 28.1





#17

Pyrene

Concen: 0.82 ng

RT: 22.22 min Scan# 4055

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :

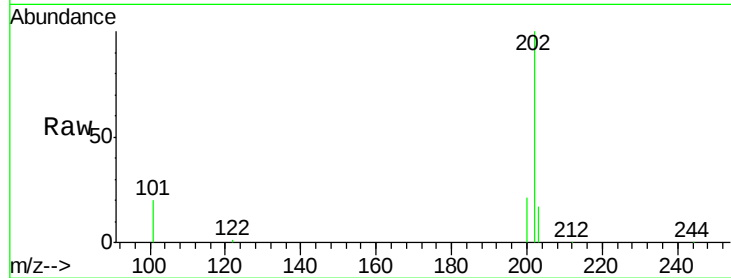
Tgt Ion: 202 Resp: 23894

Ion Ratio Lower Upper

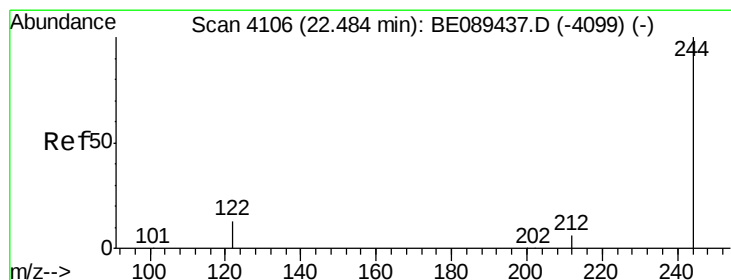
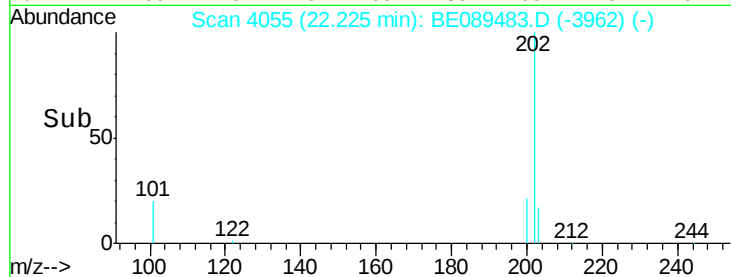
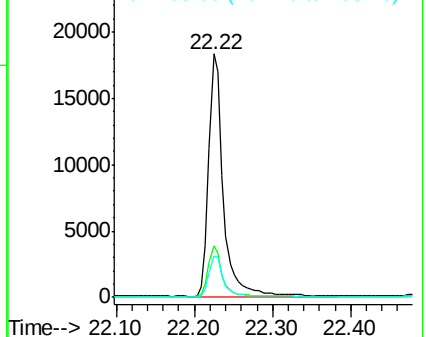
202 100

200 20.1 16.2 24.4

203 17.4 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



#18

Terphenyl-d14

Concen: 3.57 ng

RT: 22.48 min Scan# 4103

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

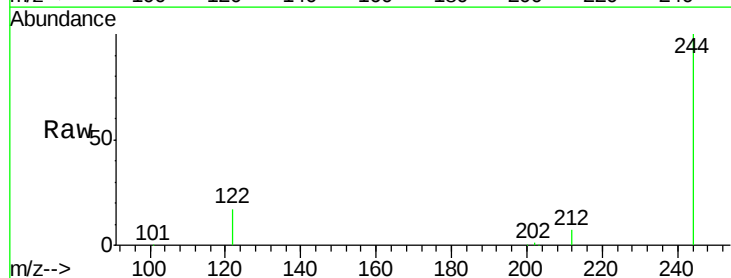
Tgt Ion: 244 Resp: 58467

Ion Ratio Lower Upper

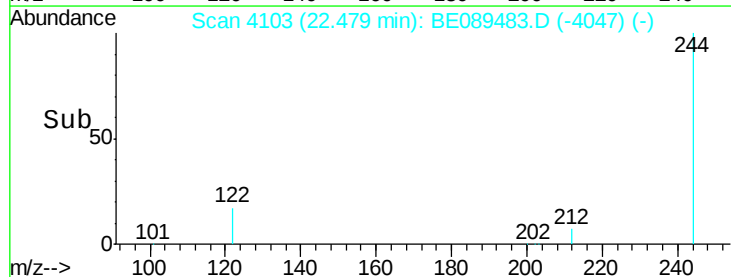
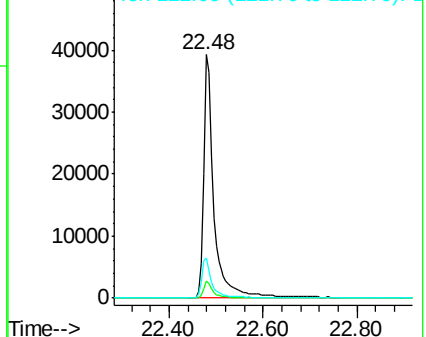
244 100

212 7.1 5.0 7.6

122 16.7 10.2 15.4#



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





#19

Benzo(a)anthracene

Concen: 0.52 ng

RT: 23.83 min Scan# 4325

Delta R.T. 0.00 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :

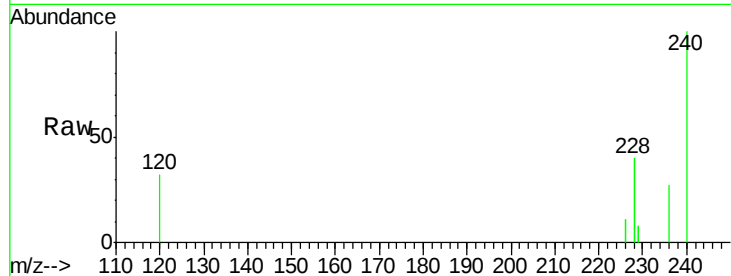
Tgt Ion:228 Resp: 47626

Ion Ratio Lower Upper

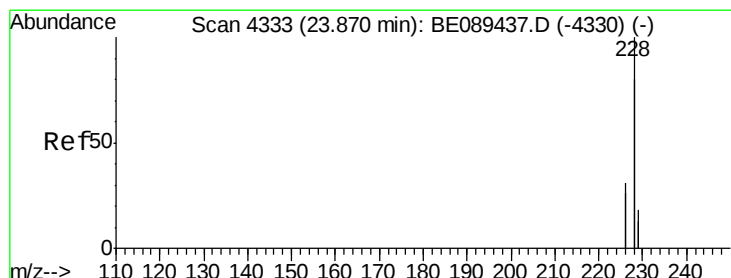
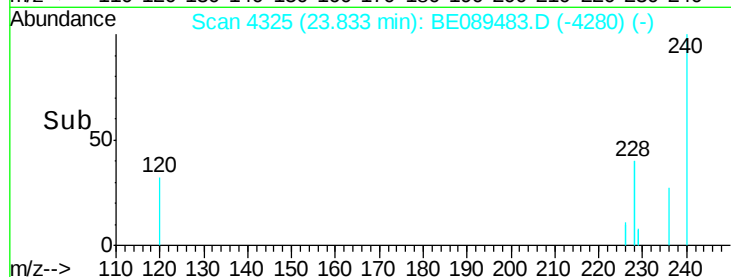
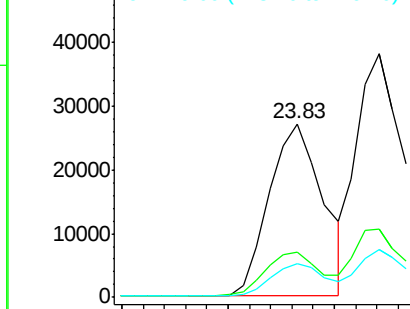
228 100

226 26.2 20.0 30.0

229 19.4 16.0 24.0



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



#20

Chrysene

Concen: 0.90 ng

RT: 23.87 min Scan# 4331

Delta R.T. 0.00 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

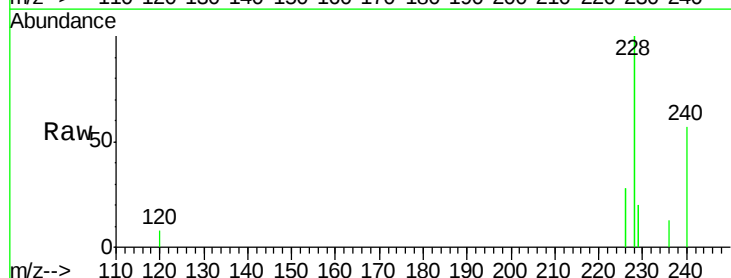
Tgt Ion:228 Resp: 93347

Ion Ratio Lower Upper

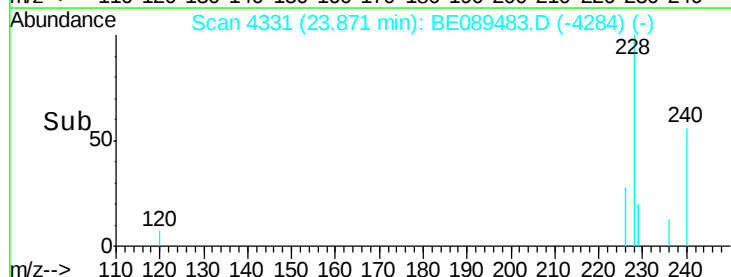
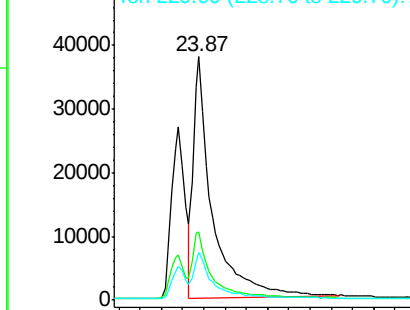
228 100

226 28.0 24.5 36.7

229 19.8 14.1 21.1



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

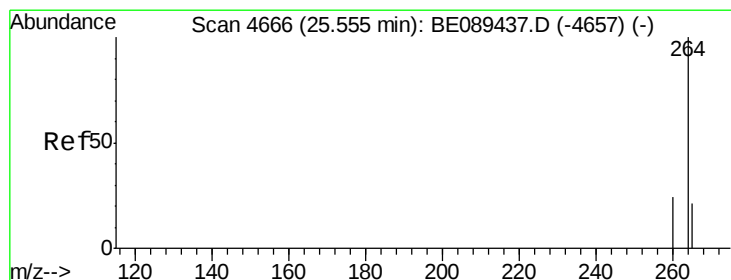
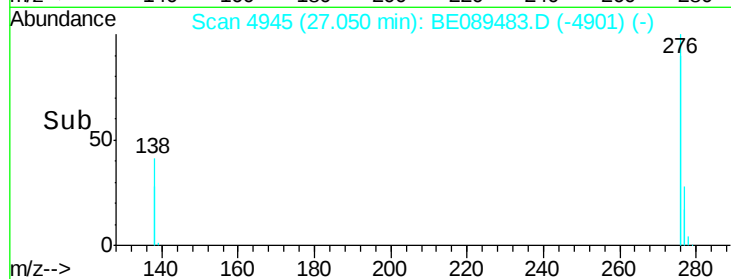
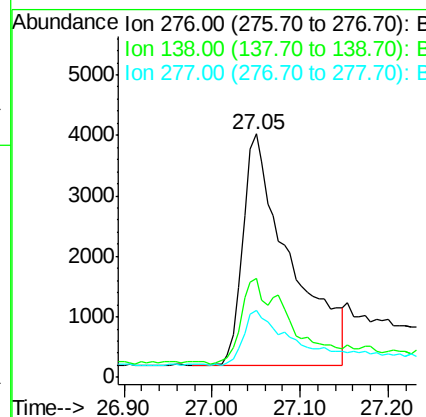
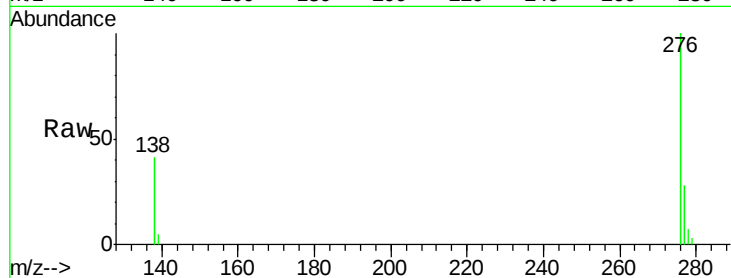




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.16 ng
 RT: 27.05 min Scan# 4945
 Delta R.T. -0.01 min
 Lab File: BE089483.D
 Acq: 1 Feb 2015 1:12

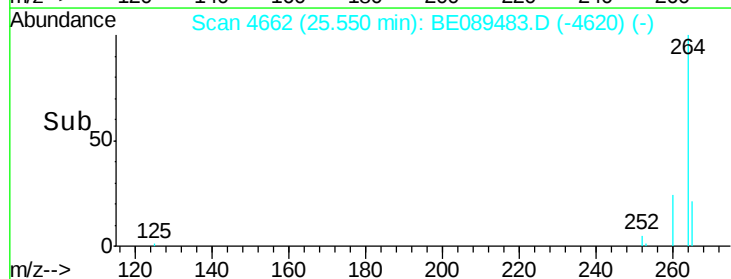
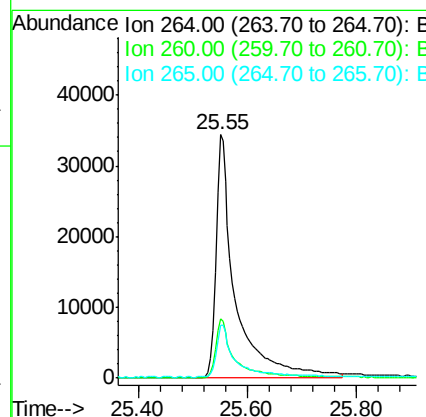
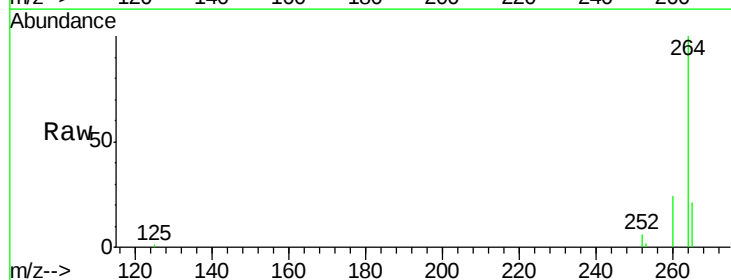
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 14260
 Ion Ratio Lower Upper
 276 100
 138 18.7 25.4 38.0#
 277 25.2 19.8 29.6



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.55 min Scan# 4662
 Delta R.T. -0.00 min
 Lab File: BE089483.D
 Acq: 1 Feb 2015 1:12

Tgt Ion: 264 Resp: 85673
 Ion Ratio Lower Upper
 264 100
 260 24.4 19.4 29.0
 265 21.5 17.0 25.6

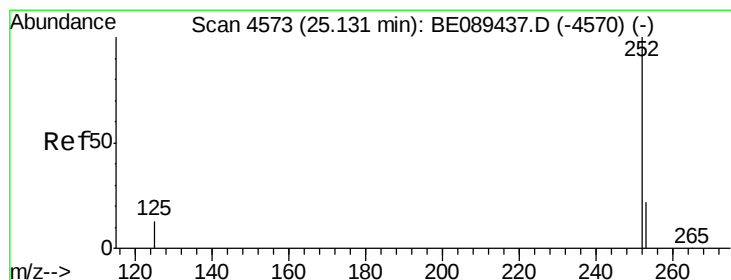
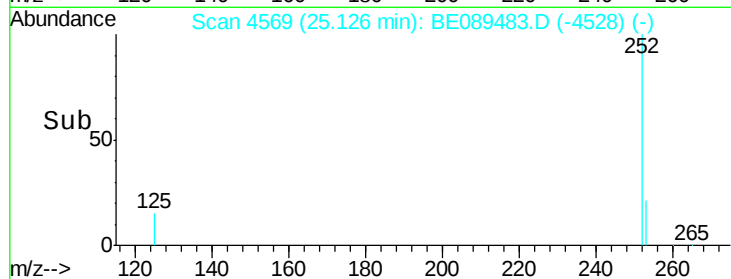
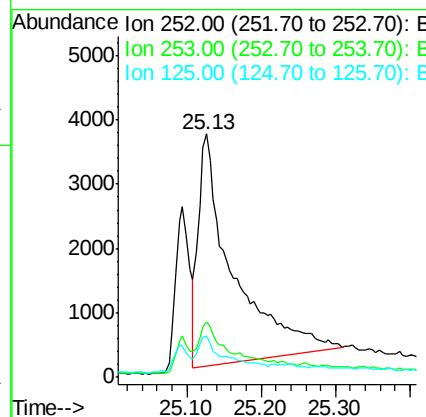
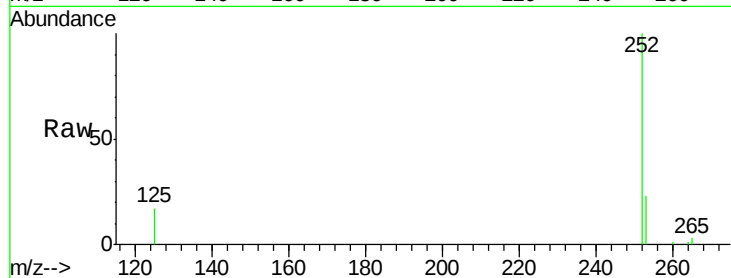




#23
Benzo(b)fluoranthene
Concen: 0.93 ng
RT: 25.13 min Scan# 4569
Delta R.T. 0.03 min
Lab File: BE089483.D
Acq: 1 Feb 2015 1:12

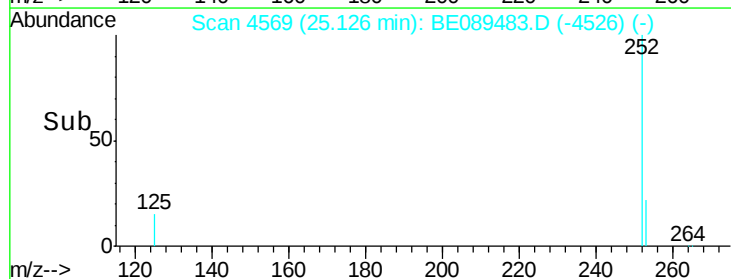
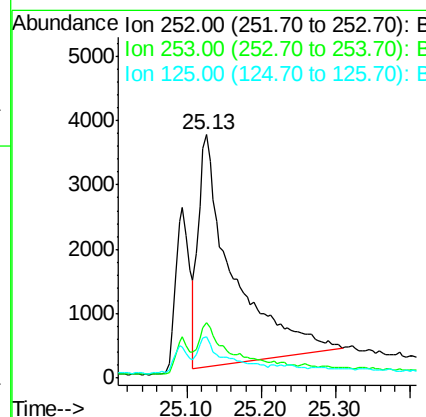
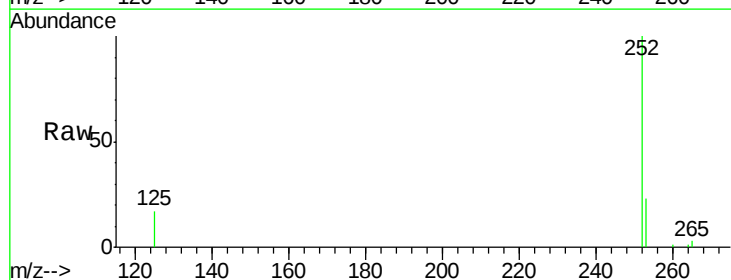
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:252 Resp: 11766
Ion Ratio Lower Upper
252 100
253 22.8 17.0 25.6
125 17.0 11.4 17.0



#24
Benzo(k)fluoranthene
Concen: 0.54 ng
RT: 25.13 min Scan# 4569
Delta R.T. -0.00 min
Lab File: BE089483.D
Acq: 1 Feb 2015 1:12

Tgt Ion:252 Resp: 11766
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.2
125 17.0 10.9 16.3#





#25

Benzo(a)pyrene

Concen: 0.55 ng

RT: 25.55 min Scan# 4663

Delta R.T. 0.07 min

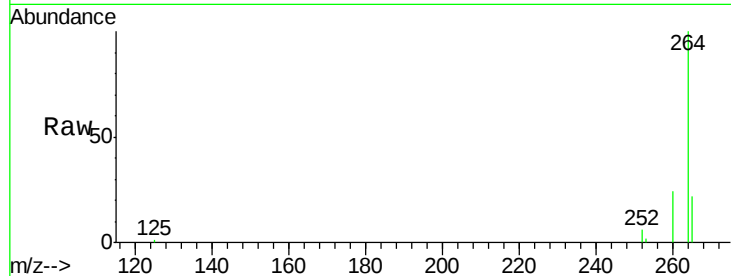
Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :



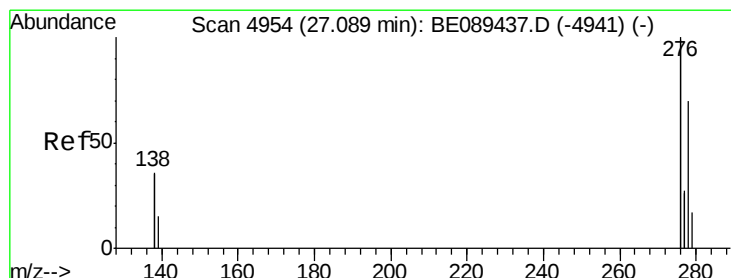
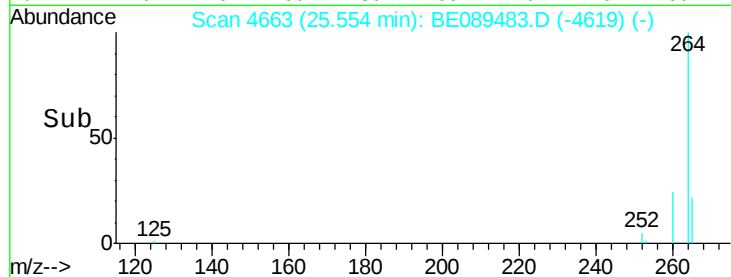
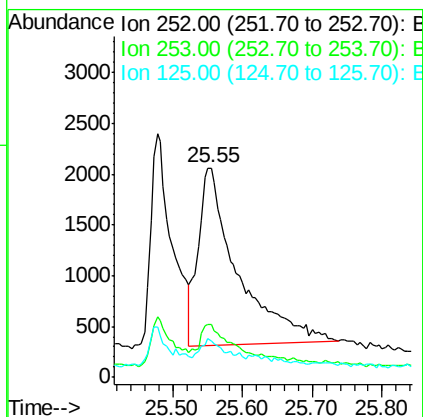
Tgt Ion: 252 Resp: 6846

Ion Ratio Lower Upper

252 100

253 25.4 17.3 25.9

125 17.4 12.0 18.0



#26

Dibenzo(a,h)anthracene

Concen: 0.30 ng

RT: 27.08 min Scan# 4950

Delta R.T. -0.01 min

Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

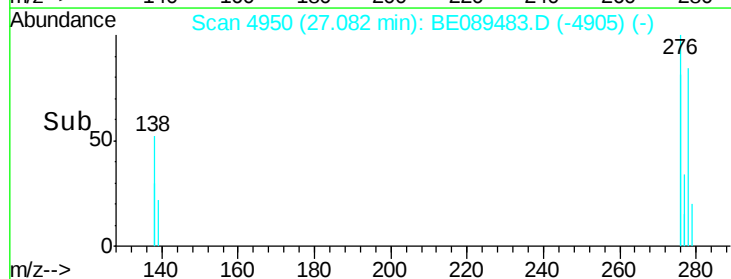
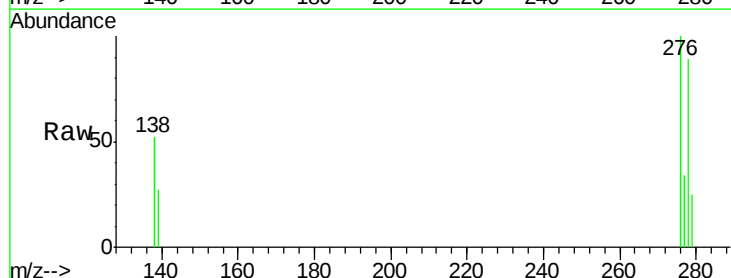
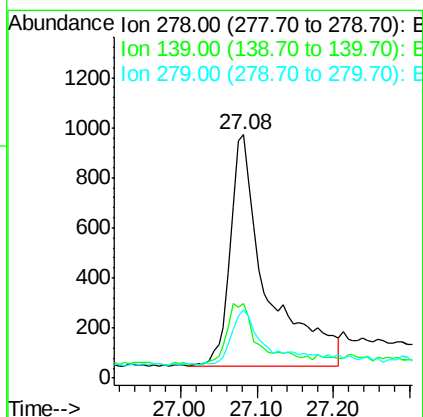
Tgt Ion: 278 Resp: 3016

Ion Ratio Lower Upper

278 100

139 30.8 17.0 25.4#

279 28.0 19.1 28.7





#27

Benzo(g,h,i)perylene

Concen: 0.48 ng

RT: 27.50 min Scan# 5014

Delta R.T. -0.01 min

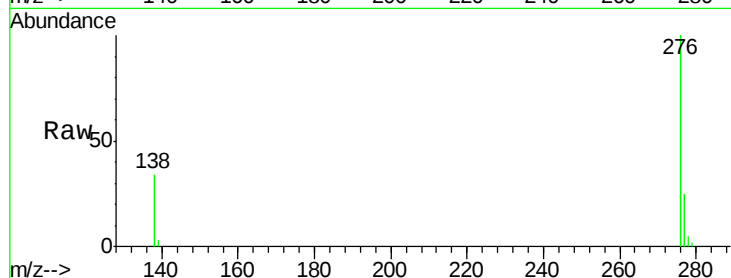
Lab File: BE089483.D

Acq: 1 Feb 2015 1:12

Instrument :

BNA_E

ClientSampleId :



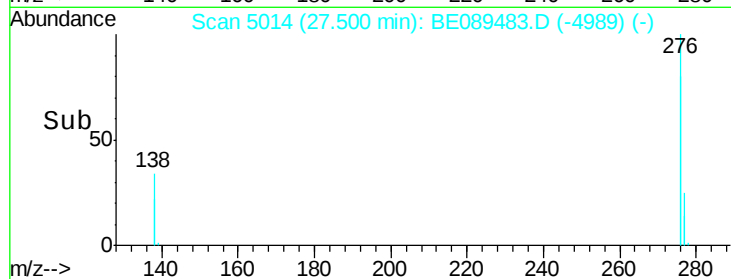
Tgt Ion: 276 Resp: 32724

Ion Ratio Lower Upper

276 100

277 24.9 18.4 27.6

138 34.1 23.7 35.5



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

