

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE010715\
 Data File : BE089336.D
 Acq On : 7 Jan 2015 19:54
 Operator : TP/IZ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

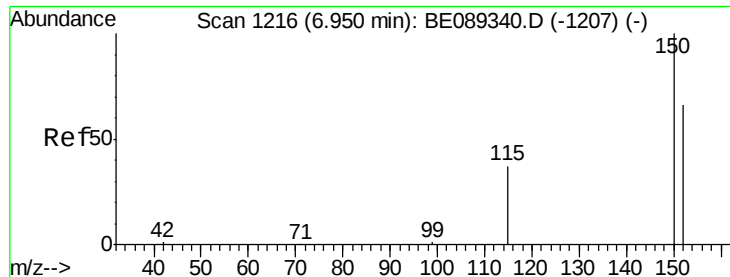
Quant Time: Jan 08 05:27:50 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 05:21:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	22793	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	88724	5.00	ng	0.00
6) Acenaphthene-d10	10.66	164	42634	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	66664	5.00	ng	0.00
15) Chrysene-d12	18.07	240	48530	5.00	ng	0.00
21) Perylene-d12	21.12	264	43445	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	7.65	82	432	0.08	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	969	0.09	ng	0.00
17) Terphenyl-d14	15.85	244	750	0.10	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	8.54	128	1765	0.10	ng	# 94
5) 2-Methylnaphthalene	9.39	142	1109	0.10	ng	# 96
8) Acenaphthylene	10.48	152	6018	0.10	ng	# 89
9) Acenaphthene	10.69	154	1112	0.12	ng	# 84
10) Fluorene	11.34	166	1030	0.10	ng	# 99
12) Phenanthrene	12.75	178	6276	0.10	ng	# 94
13) Anthracene	12.84	178	5449	0.10	ng	# 91
14) Fluoranthene	14.96	202	1297	0.10	ng	# 92
16) Pyrene	15.41	202	1352	0.11	ng	# 92
18) Benzo(a)anthracene	18.05	228	4437	0.11	ng	# 92
19) Chrysene	18.13	228	4226	0.10	ng	# 88
20) Indeno(1,2,3-cd)pyrene	23.24	276	3503	0.09	ng	# 80
22) Benzo(b)fluoranthene	20.38	252	714	0.08	ng	# 76
23) Benzo(k)fluoranthene	20.43	252	969	0.09	ng	# 75
24) Benzo(a)pyrene	21.01	252	702	0.09	ng	# 75
25) Dibenzo(a,h)anthracene	23.32	278	612	0.07	ng	# 63
26) Benzo(g,h,i)perylene	23.82	276	3372	0.09	ng	# 74

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. 0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampleId :

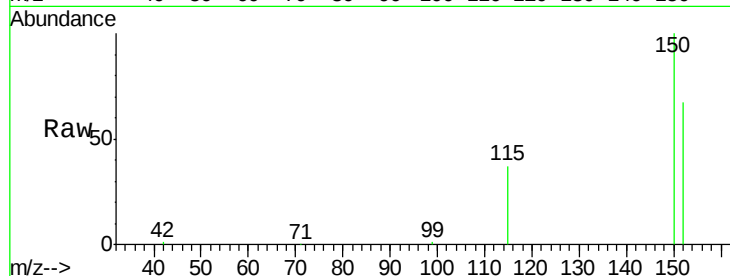
Tgt Ion:152 Resp: 22793

Ion Ratio Lower Upper

152 100

150 149.1 121.5 182.3

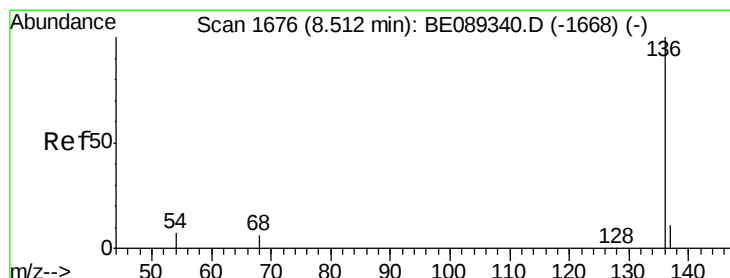
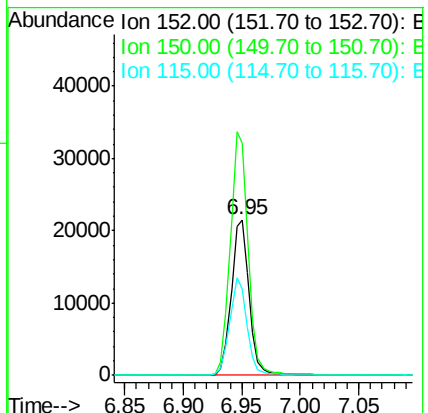
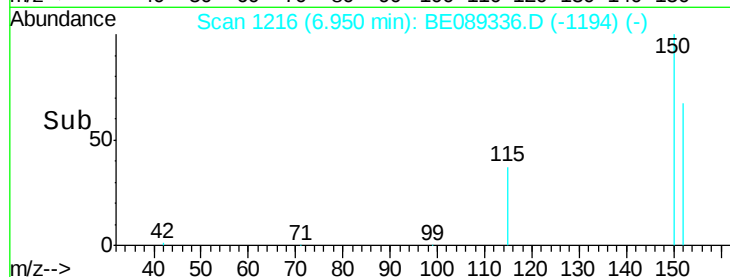
115 55.1 45.2 67.8



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

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Tgt Ion:136 Resp: 88724

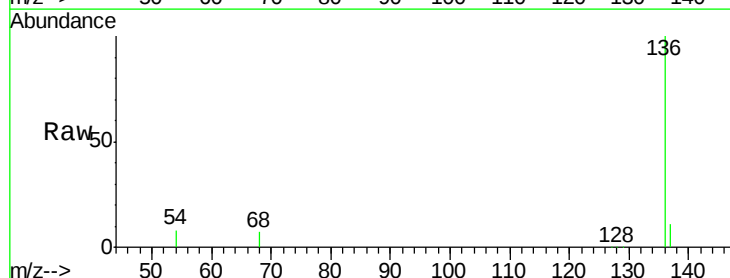
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 8.3 5.4 8.0#

68 7.0 4.7 7.1

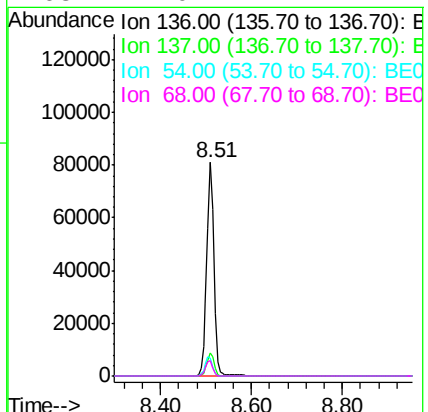
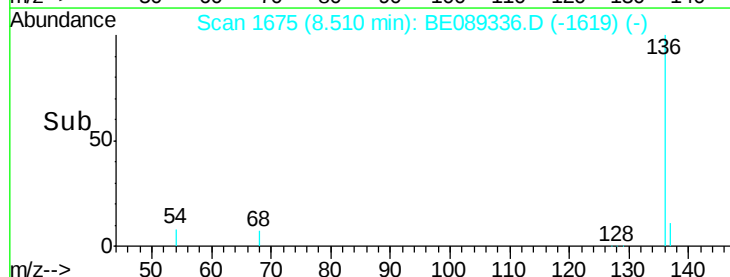


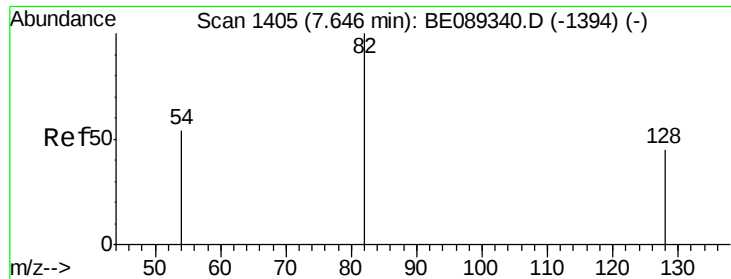
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#3

Nitrobenzene-d5

Concen: 0.08 ng

RT: 7.65 min Scan# 1408

Delta R.T. 0.01 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampled :

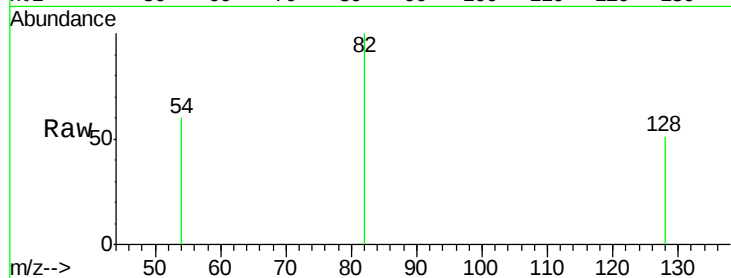
Tgt Ion: 82 Resp: 432

Ion Ratio Lower Upper

82 100

128 51.1 36.5 54.7

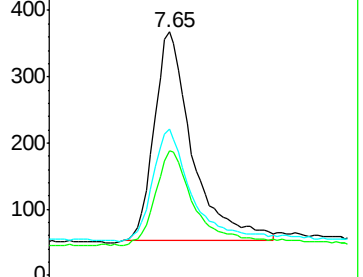
54 60.1 43.5 65.3



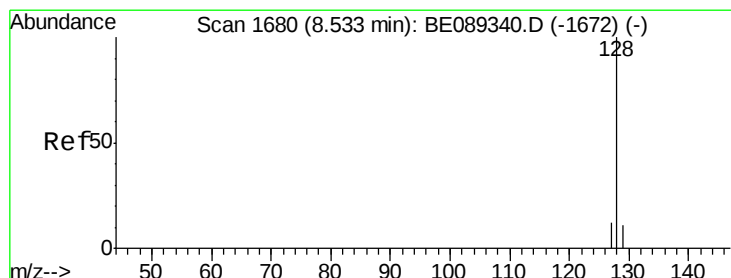
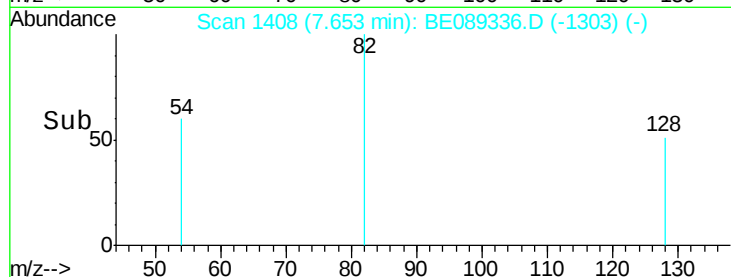
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



Time--> 7.60 7.65 7.70



#4

Naphthalene

Concen: 0.10 ng

RT: 8.54 min Scan# 1680

Delta R.T. 0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

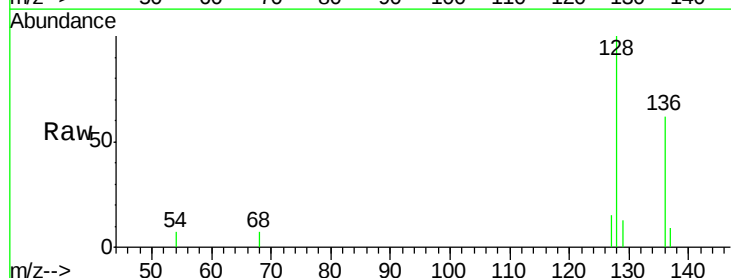
Tgt Ion: 128 Resp: 1765

Ion Ratio Lower Upper

128 100

129 13.4 8.8 13.2#

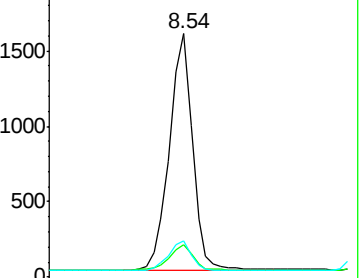
127 14.9 10.0 15.0



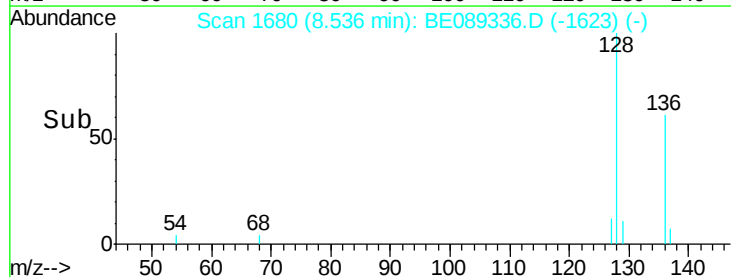
Abundance Ion 128.00 (127.70 to 128.70): E

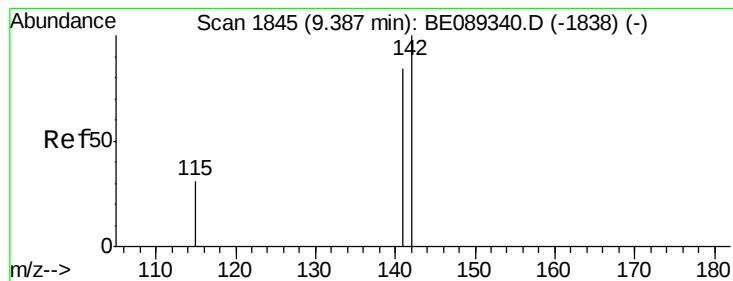
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



Time--> 8.45 8.50 8.55 8.60





#5

2-Methylnaphthalene

Concen: 0.10 ng

RT: 9.39 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampleId :

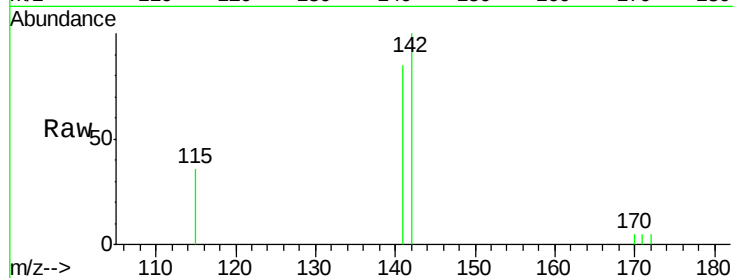
Tgt Ion:142 Resp: 1109

Ion Ratio Lower Upper

142 100

141 85.2 66.3 99.5

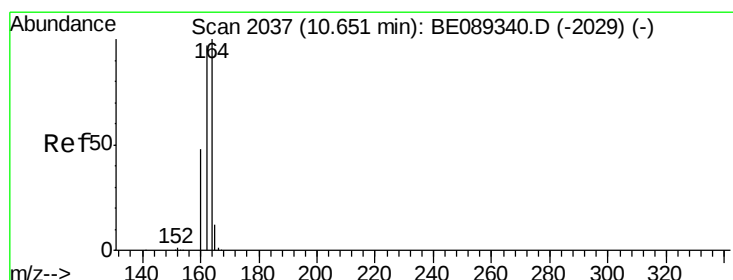
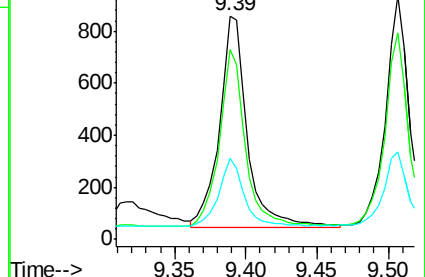
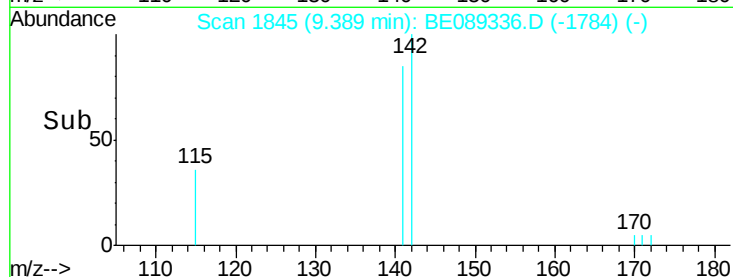
115 36.1 25.2 37.8



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.66 min Scan# 2037

Delta R.T. 0.01 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

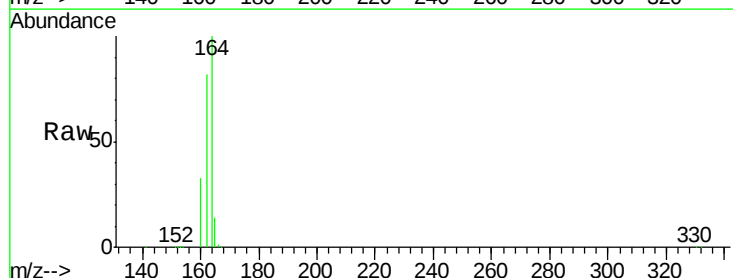
Tgt Ion:164 Resp: 42634

Ion Ratio Lower Upper

164 100

162 82.3 77.4 116.2

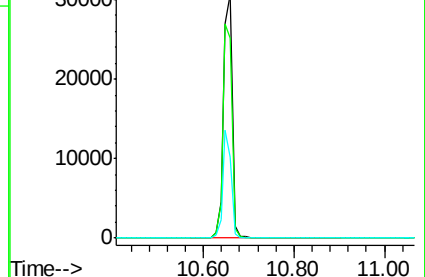
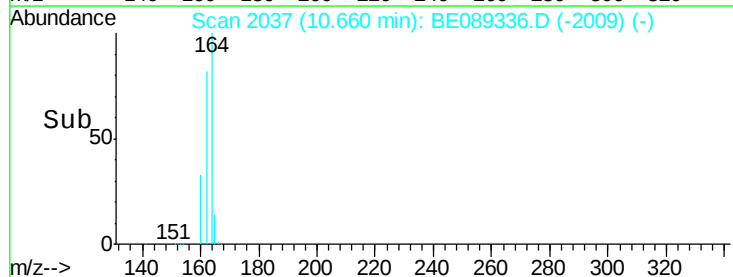
160 33.3 38.2 57.4#

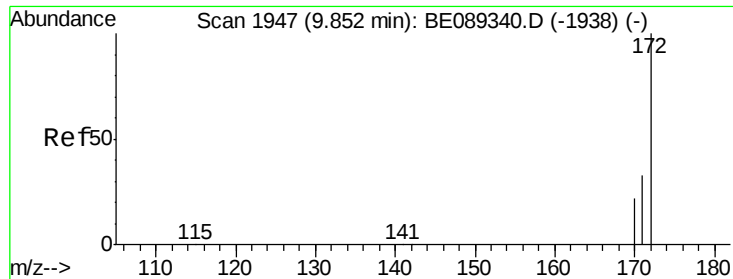


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 0.09 ng

RT: 9.85 min Scan# 1947

Delta R.T. 0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampleId :

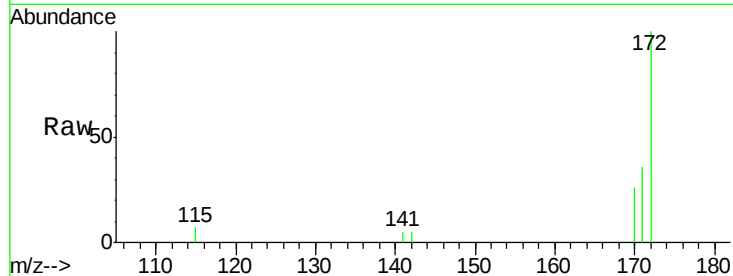
Tgt Ion:172 Resp: 969

Ion Ratio Lower Upper

172 100

171 35.8 26.4 39.6

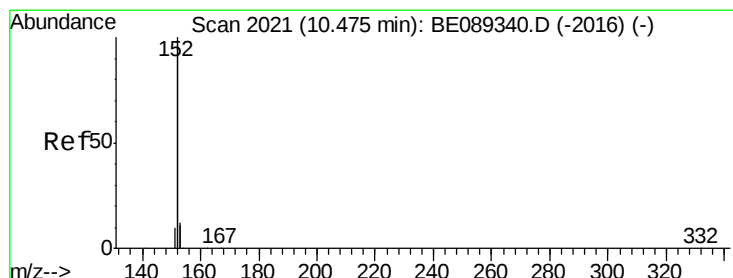
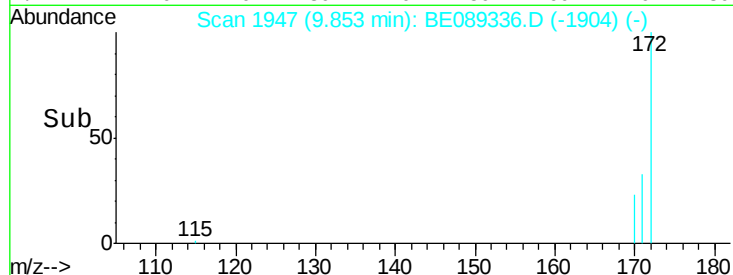
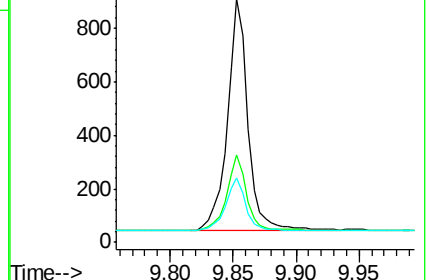
170 26.5 18.0 27.0



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



#8

Acenaphthylene

Concen: 0.10 ng

RT: 10.48 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

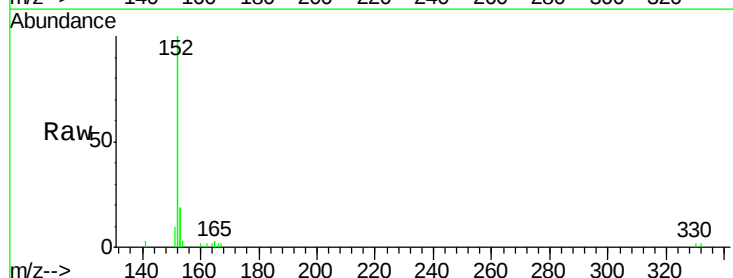
Tgt Ion:152 Resp: 6018

Ion Ratio Lower Upper

152 100

151 5.1 4.1 6.1

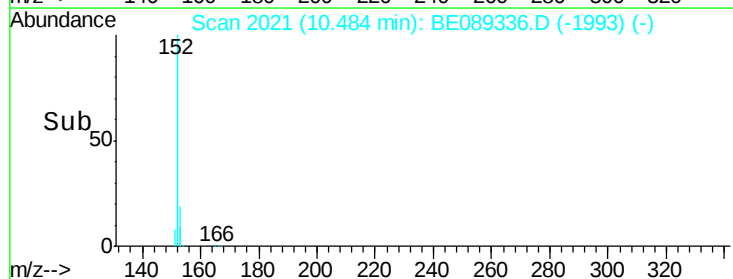
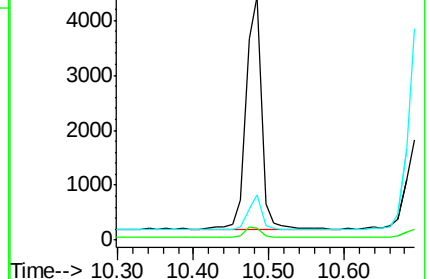
153 18.5 9.8 14.6#

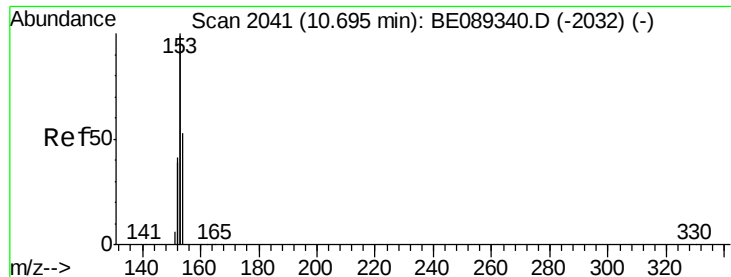


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.12 ng

RT: 10.69 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampleId :

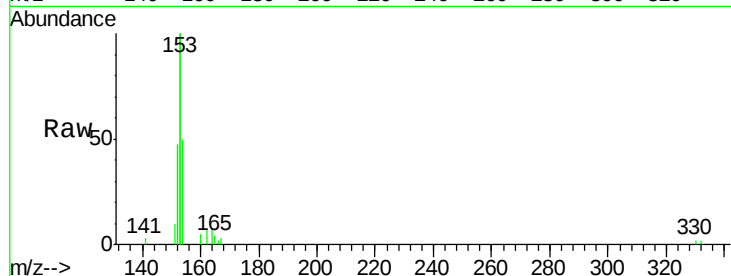
Tgt Ion:154 Resp: 1112

Ion Ratio Lower Upper

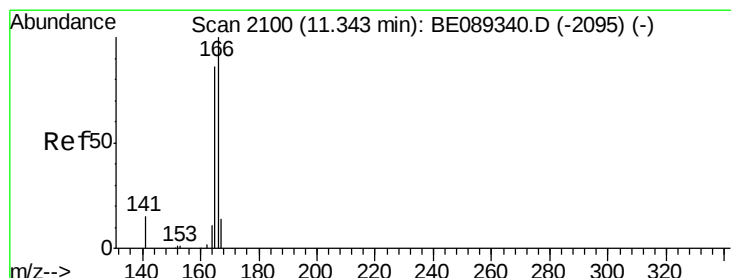
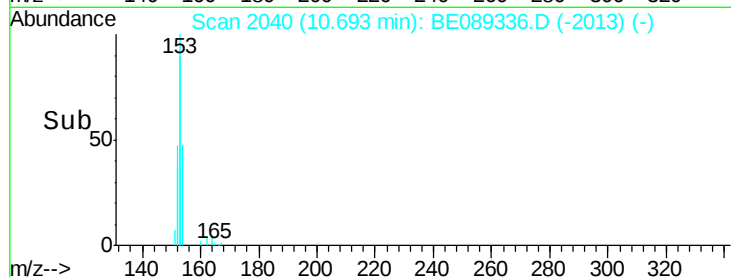
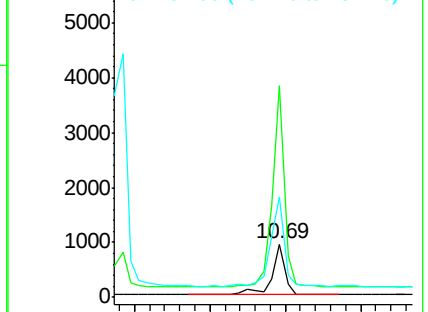
154 100

153 401.2 300.6 450.8

152 189.4 123.3 184.9#



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.10 ng

RT: 11.34 min Scan# 2099

Delta R.T. -0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

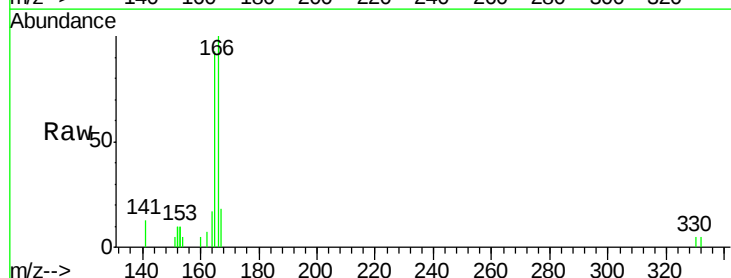
Tgt Ion:166 Resp: 1030

Ion Ratio Lower Upper

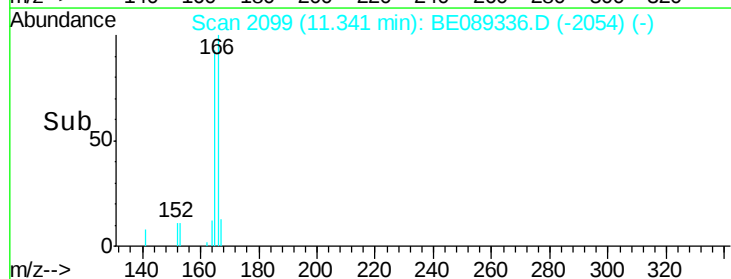
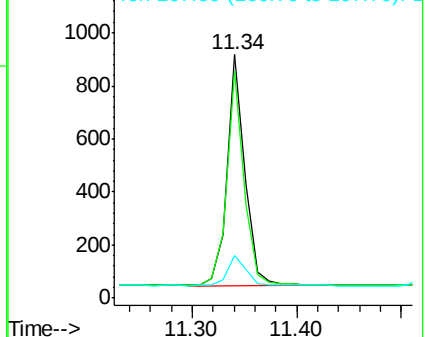
166 100

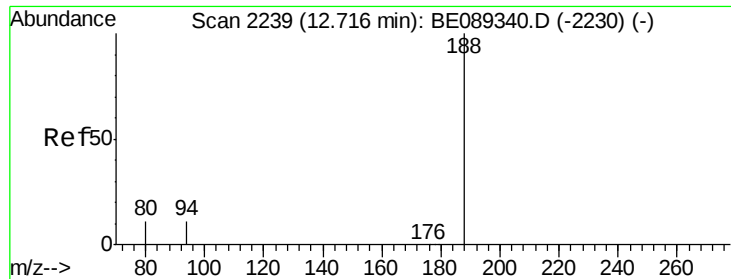
165 91.4 72.1 108.1

167 13.7 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

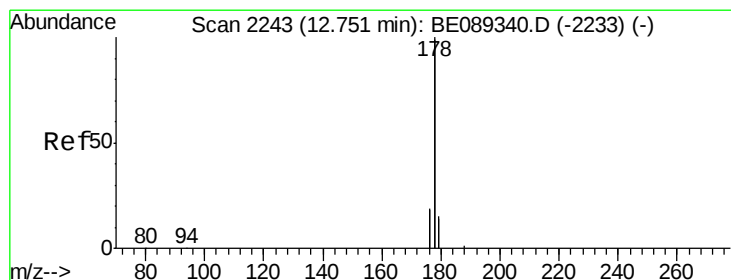
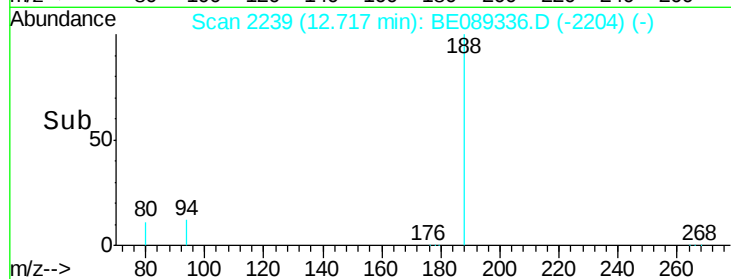
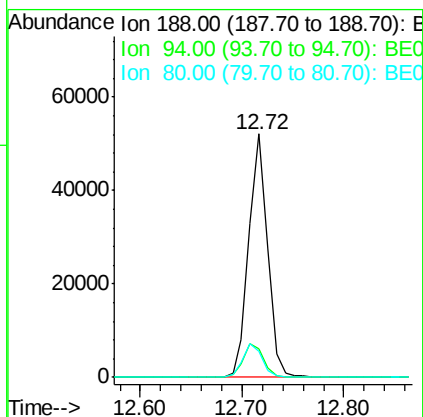
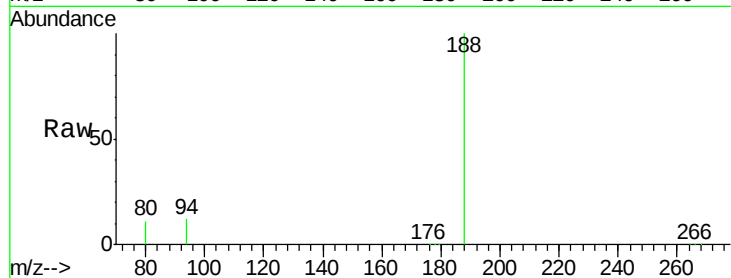




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.72 min Scan# 2239
Delta R.T. 0.00 min
Lab File: BE089336.D
Acq: 7 Jan 2015 19:54

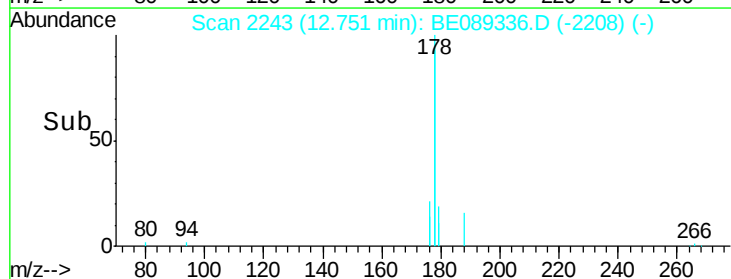
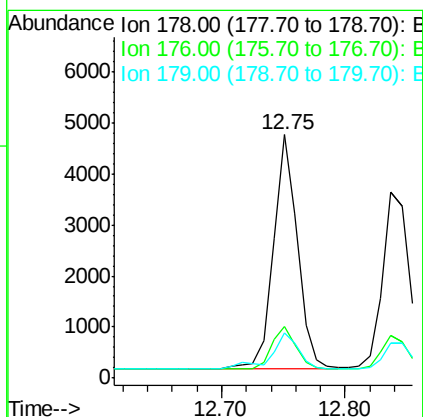
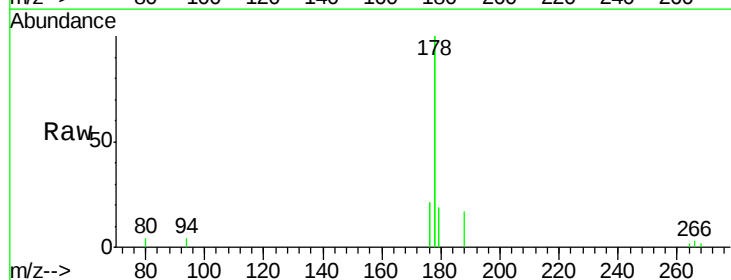
Instrument :
BNA_E
ClientSampleId :

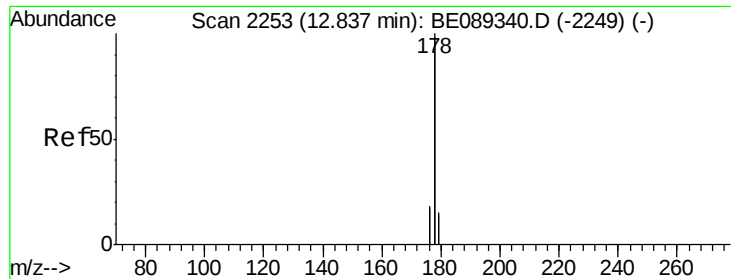
Tgt Ion:188 Resp: 66664
Ion Ratio Lower Upper
188 100
94 12.0 11.0 12.2
80 10.8 10.1 11.1



#12
Phenanthrene
Concen: 0.10 ng
RT: 12.75 min Scan# 2243
Delta R.T. 0.00 min
Lab File: BE089336.D
Acq: 7 Jan 2015 19:54

Tgt Ion:178 Resp: 6276
Ion Ratio Lower Upper
178 100
176 21.1 15.1 22.7
179 18.7 12.2 18.2#





#13

Anthracene

Concen: 0.10 ng

RT: 12.84 min Scan# 2253

Delta R.T. 0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampleId :

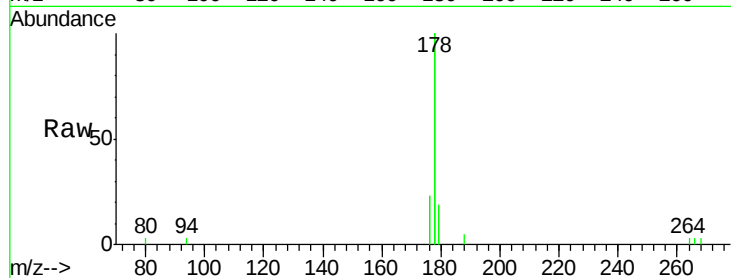
Tgt Ion:178 Resp: 5449

Ion Ratio Lower Upper

178 100

176 22.6 14.7 22.1#

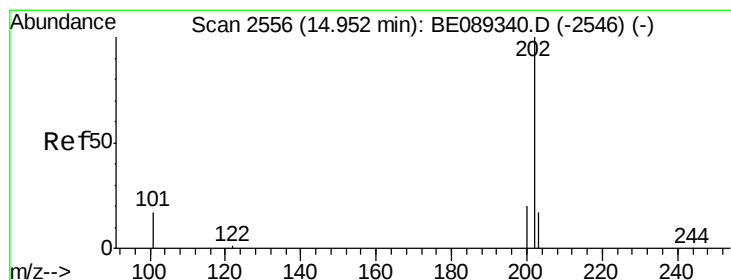
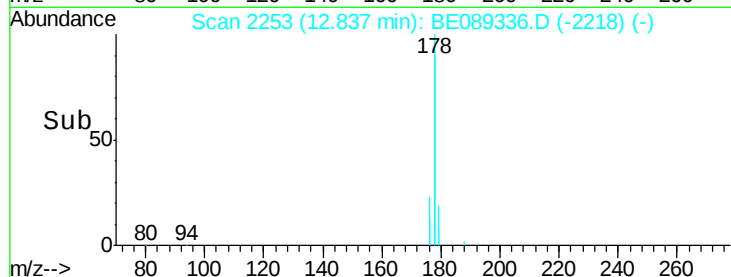
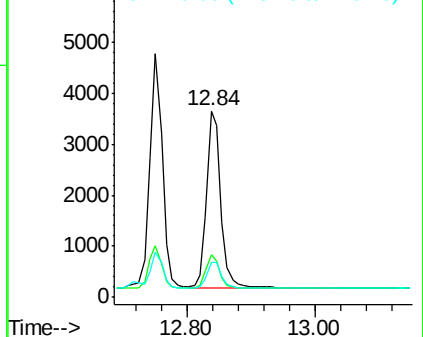
179 19.0 12.0 18.0#



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



#14

Fluoranthene

Concen: 0.10 ng

RT: 14.96 min Scan# 2558

Delta R.T. 0.01 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

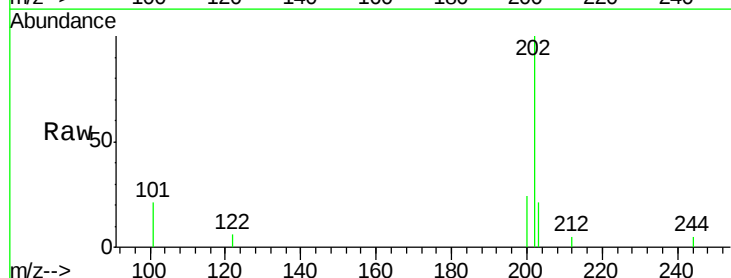
Tgt Ion:202 Resp: 1297

Ion Ratio Lower Upper

202 100

101 21.1 0.0 37.9

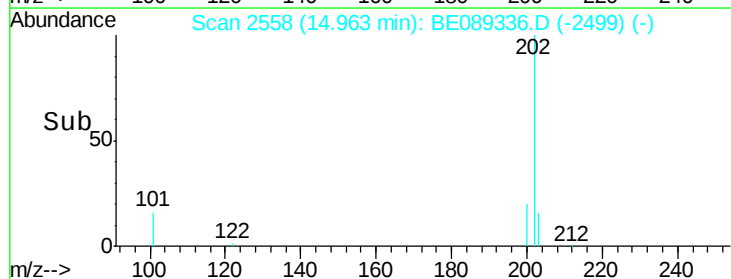
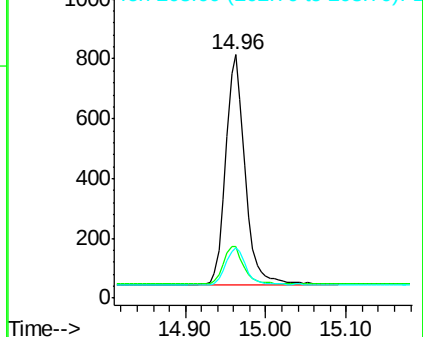
203 20.9 0.0 37.5

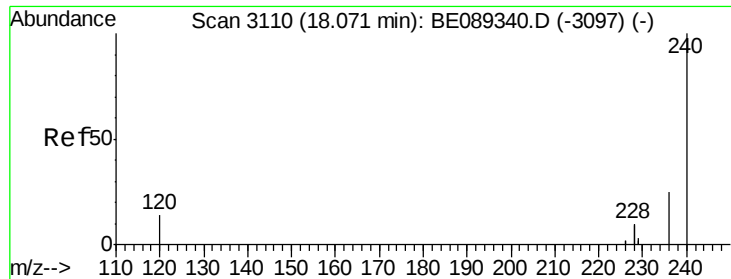


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#15

Chrysene-d12

Concen: 5.00 ng

RT: 18.07 min Scan# 3110

Delta R.T. -0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampleId :

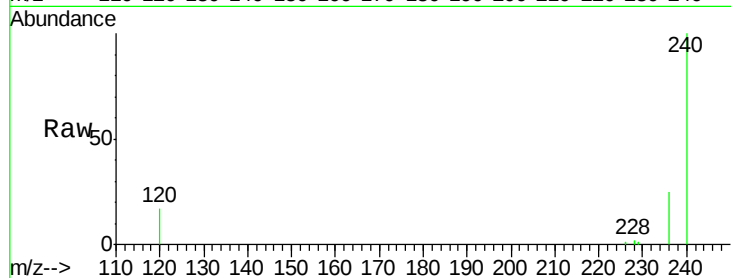
Tgt Ion:240 Resp: 48530

Ion Ratio Lower Upper

240 100

120 17.1 11.8 17.6

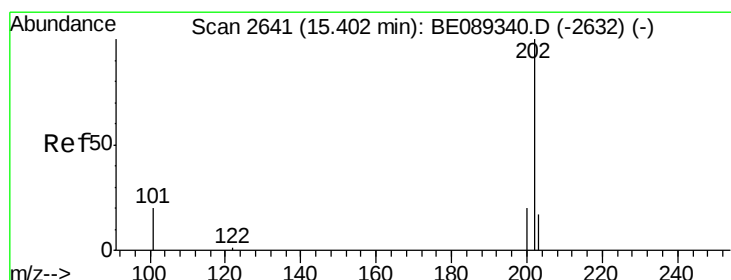
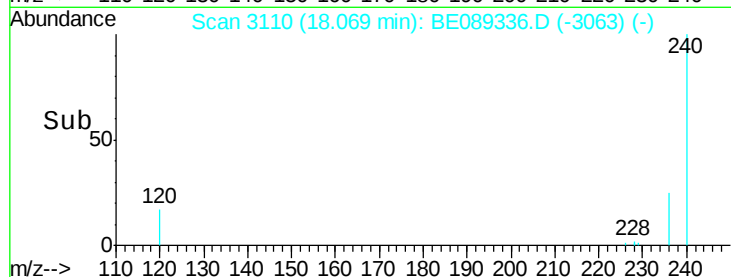
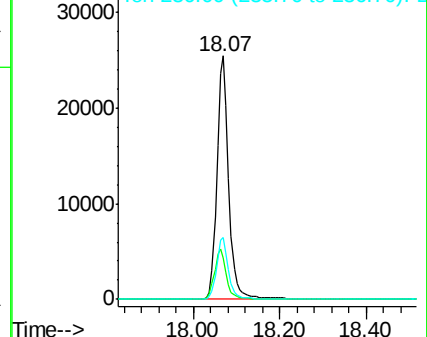
236 25.3 20.0 30.0



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



#16

Pyrene

Concen: 0.11 ng

RT: 15.41 min Scan# 2642

Delta R.T. 0.01 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

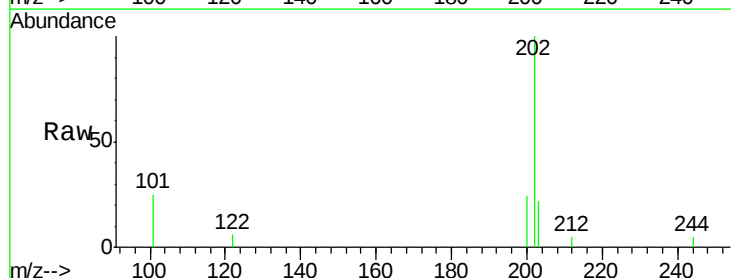
Tgt Ion:202 Resp: 1352

Ion Ratio Lower Upper

202 100

200 24.3 16.8 25.2

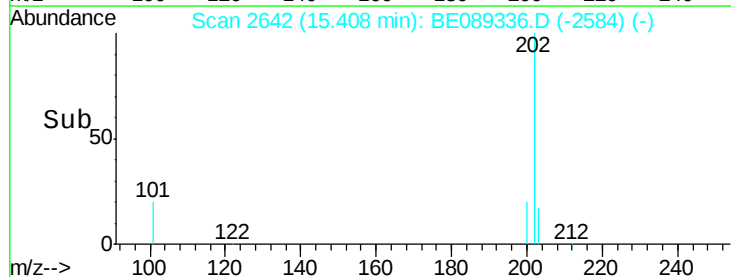
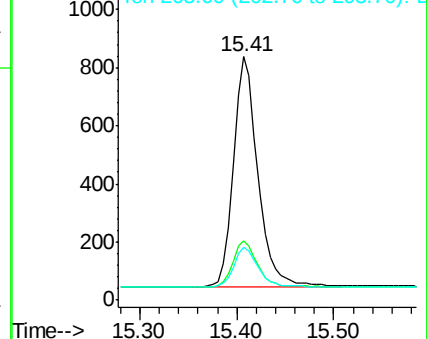
203 21.7 14.0 21.0#

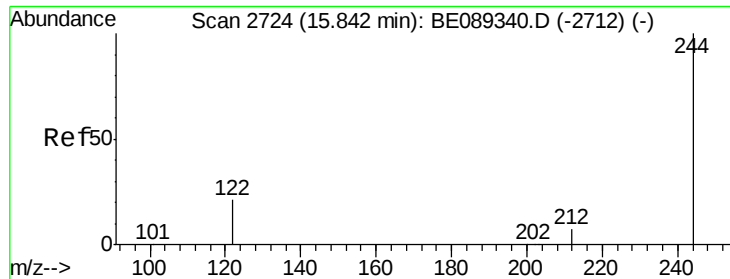


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

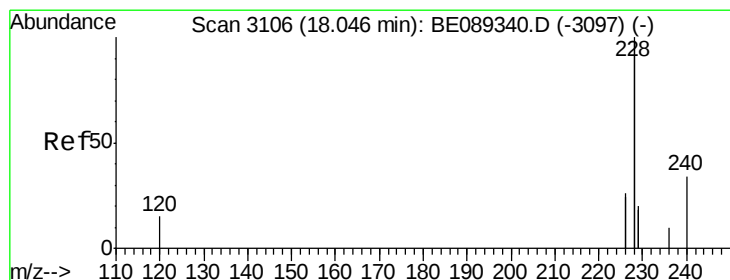
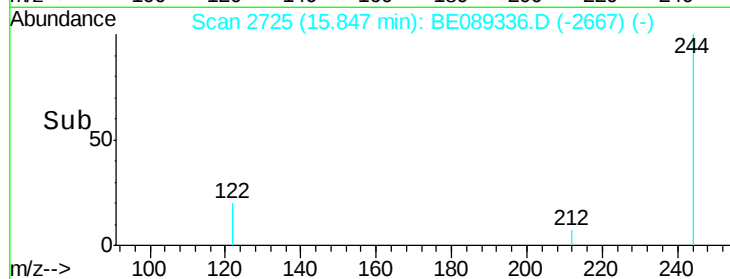
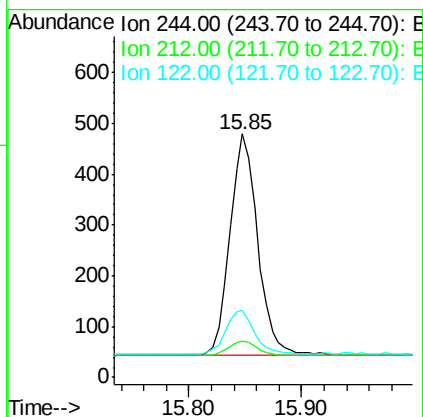
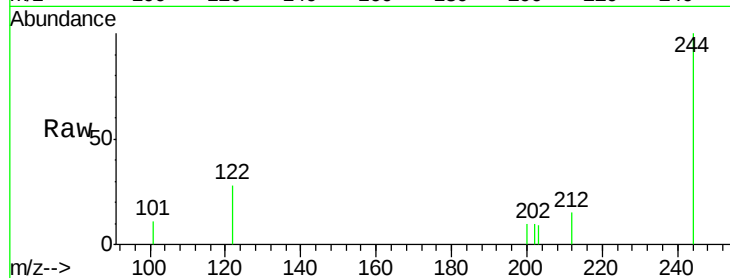




#17
 Terphenyl-d14
 Concen: 0.10 ng
 RT: 15.85 min Scan# 2725
 Delta R.T. 0.01 min
 Lab File: BE089336.D
 Acq: 7 Jan 2015 19:54

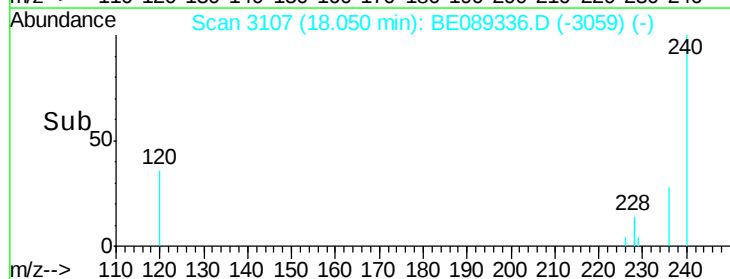
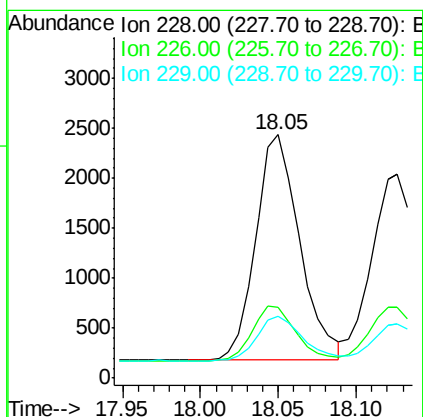
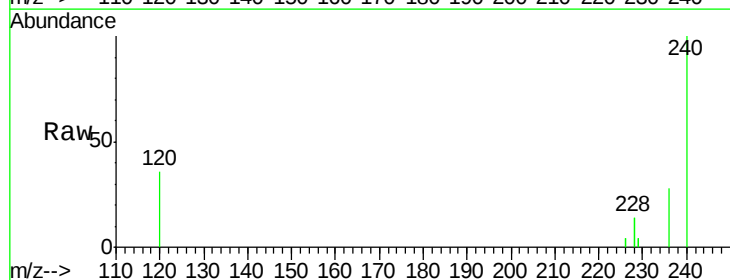
Instrument :
 BNA_E
 ClientSampleId :

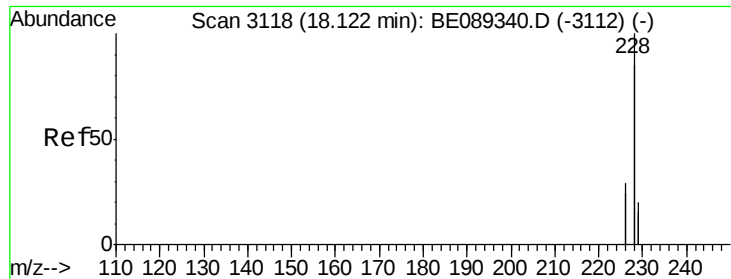
Tgt Ion:244 Resp: 750
 Ion Ratio Lower Upper
 244 100
 212 15.0 6.3 9.5#
 122 27.8 17.7 26.5#



#18
 Benzo(a)anthracene
 Concen: 0.11 ng
 RT: 18.05 min Scan# 3107
 Delta R.T. 0.00 min
 Lab File: BE089336.D
 Acq: 7 Jan 2015 19:54

Tgt Ion:228 Resp: 4437
 Ion Ratio Lower Upper
 228 100
 226 29.0 21.0 31.6
 229 25.5 16.0 24.0#





#19

Chrysene

Concen: 0.10 ng

RT: 18.13 min Scan# 3119

Delta R.T. 0.00 min

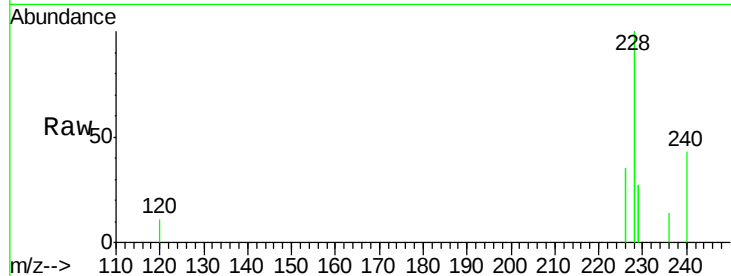
Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampleId :



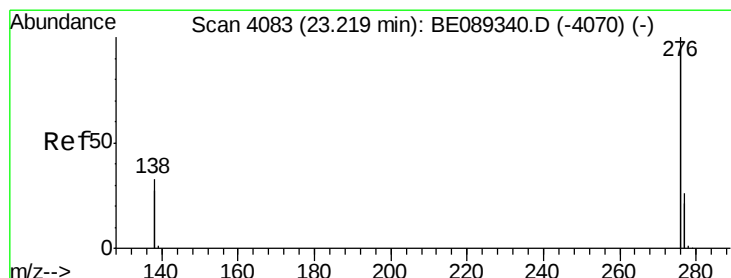
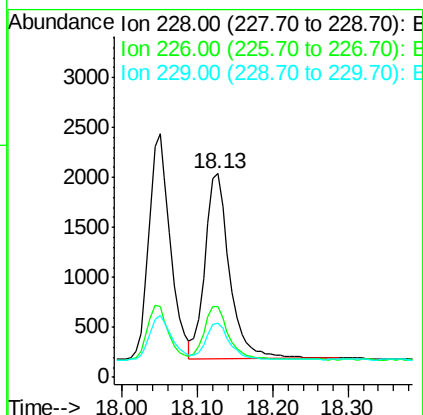
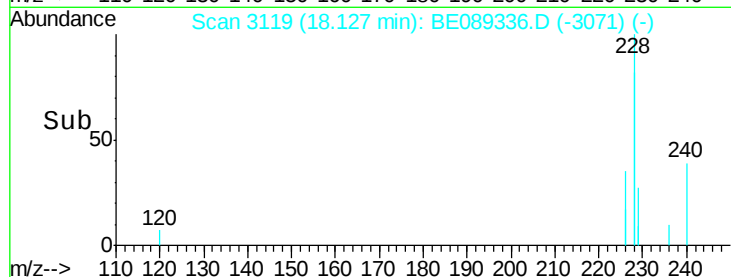
Tgt Ion:228 Resp: 4226

Ion Ratio Lower Upper

228 100

226 34.6 23.5 35.3

229 26.7 16.1 24.1#



#20

Indeno(1,2,3-cd)pyrene

Concen: 0.09 ng

RT: 23.24 min Scan# 4086

Delta R.T. 0.02 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

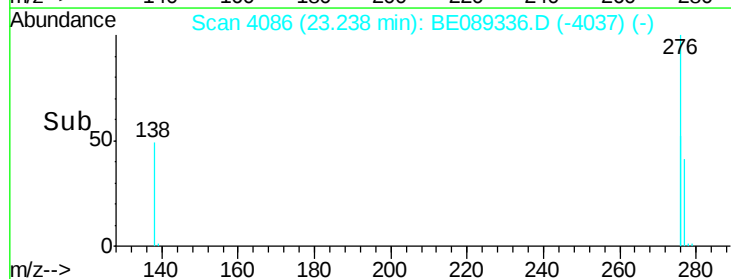
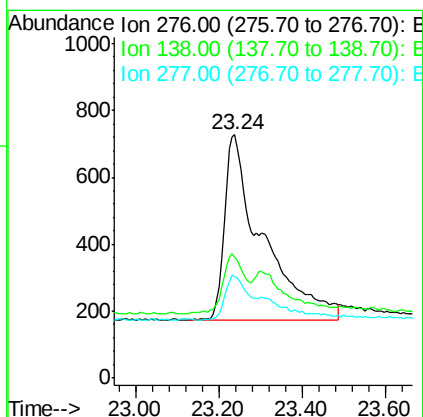
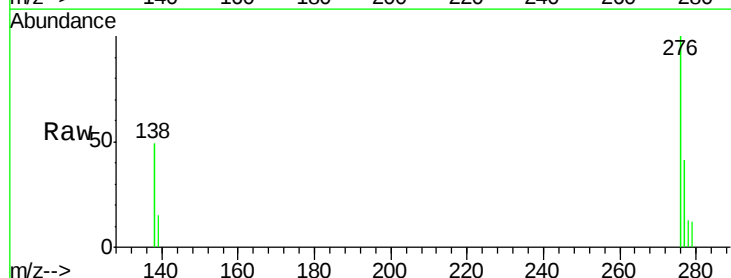
Tgt Ion:276 Resp: 3503

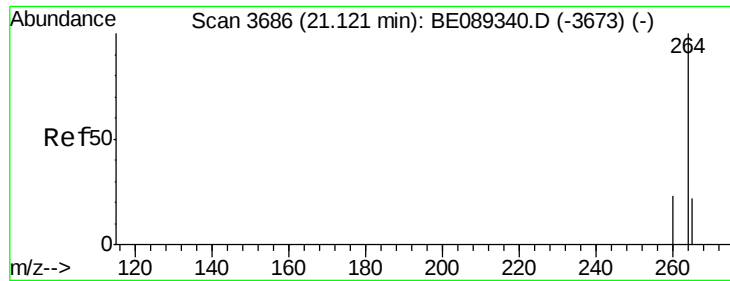
Ion Ratio Lower Upper

276 100

138 18.0 23.8 35.8#

277 13.8 18.2 27.4#



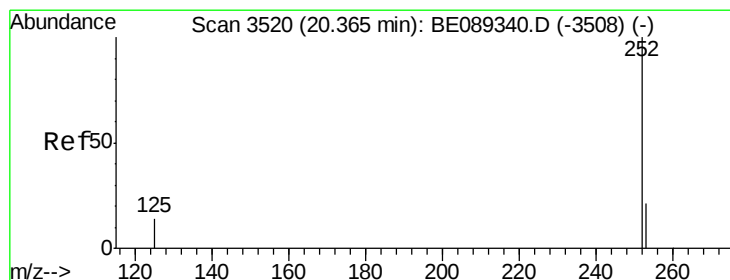
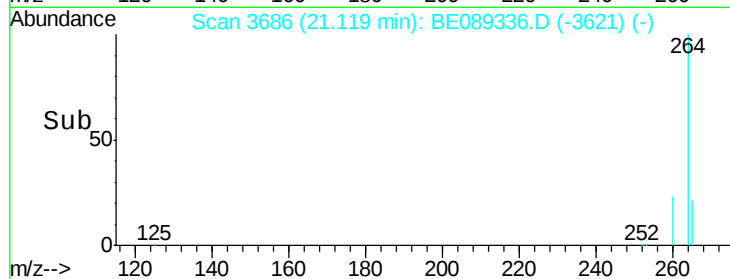
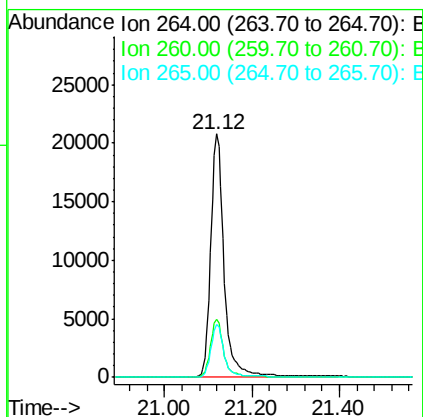
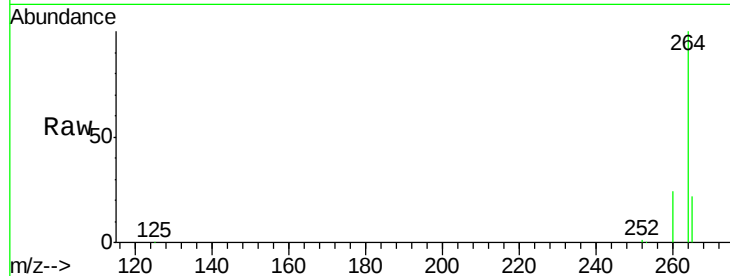


#21
Perylene-d12
Concen: 5.00 ng
RT: 21.12 min Scan# 3686
Delta R.T. -0.00 min
Lab File: BE089336.D
Acq: 7 Jan 2015 19:54

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 264 Resp: 43445

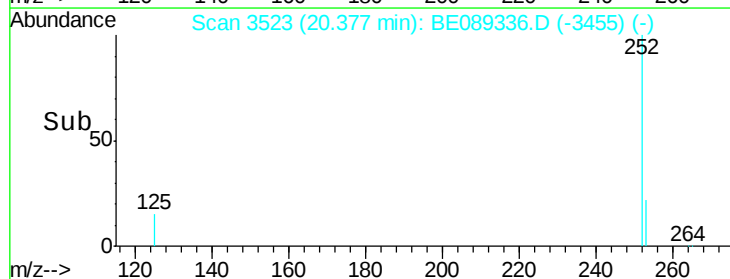
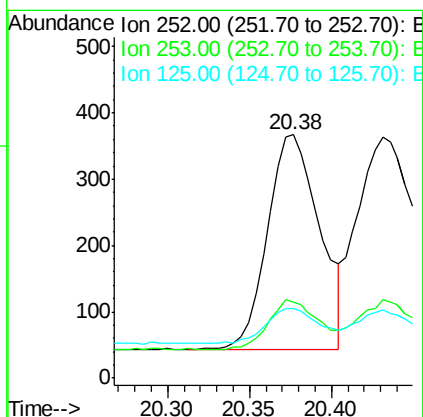
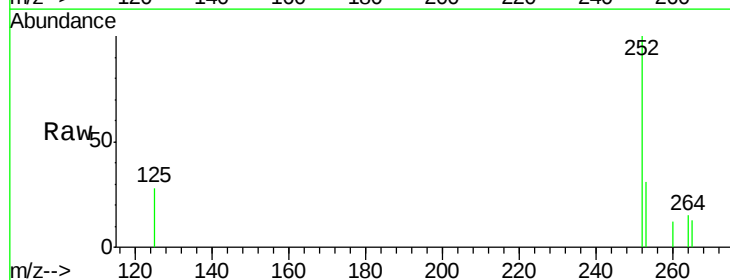
Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.5	17.4	26.2

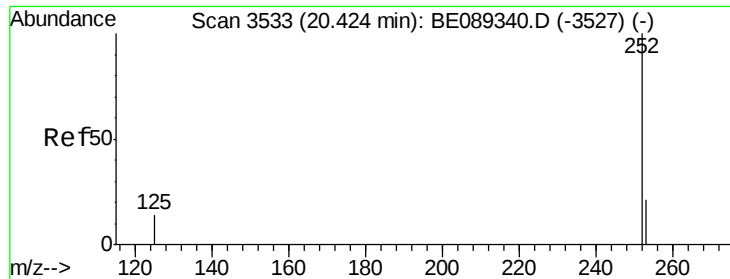


#22
Benzo(b)fluoranthene
Concen: 0.08 ng
RT: 20.38 min Scan# 3523
Delta R.T. 0.01 min
Lab File: BE089336.D
Acq: 7 Jan 2015 19:54

Tgt Ion: 252 Resp: 714

Ion	Ratio	Lower	Upper
252	100		
253	31.3	17.8	26.6#
125	28.3	12.6	18.8#





#23

Benzo(k)fluoranthene

Concen: 0.09 ng

RT: 20.43 min Scan# 3535

Delta R.T. 0.01 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

Instrument :

BNA_E

ClientSampleId :

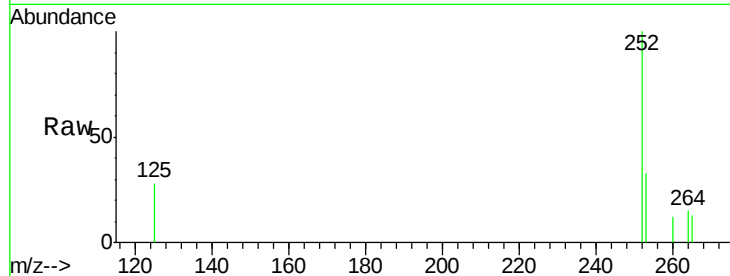
Tgt Ion:252 Resp: 969

Ion Ratio Lower Upper

252 100

253 32.7 18.0 27.0#

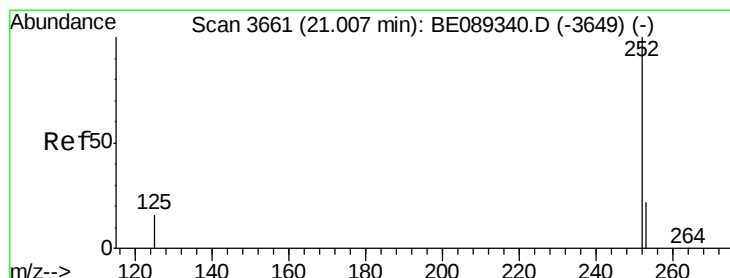
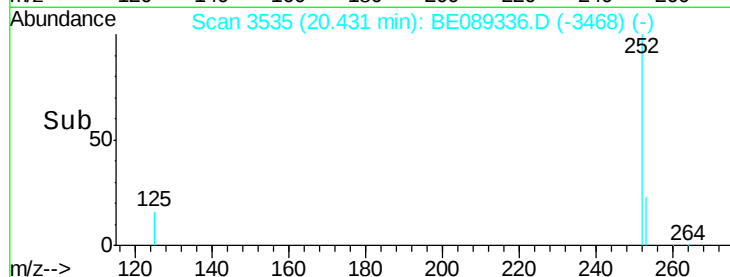
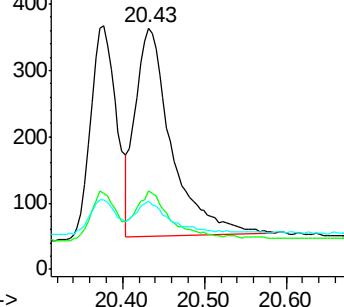
125 28.3 12.4 18.6#



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



#24

Benzo(a)pyrene

Concen: 0.09 ng

RT: 21.01 min Scan# 3662

Delta R.T. 0.00 min

Lab File: BE089336.D

Acq: 7 Jan 2015 19:54

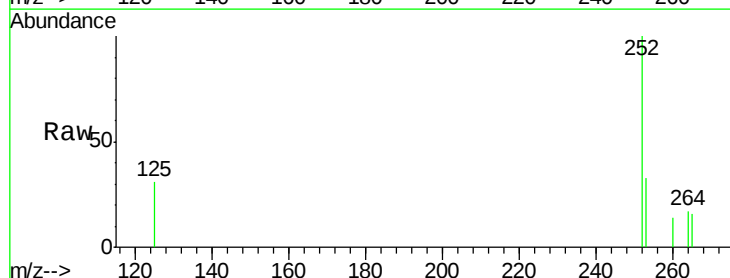
Tgt Ion:252 Resp: 702

Ion Ratio Lower Upper

252 100

253 32.7 18.3 27.5#

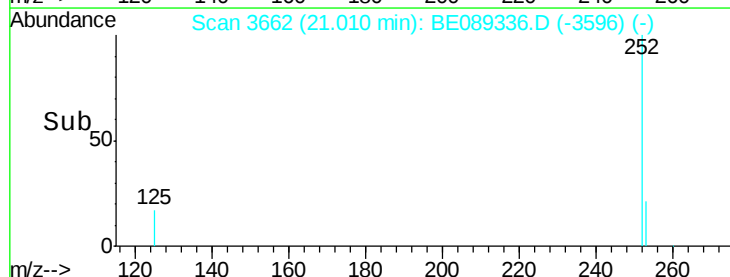
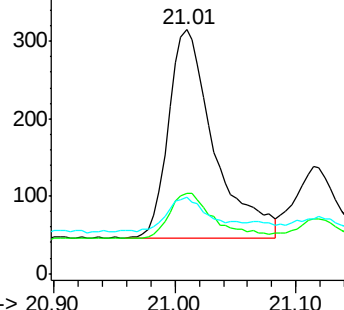
125 31.4 13.8 20.8#

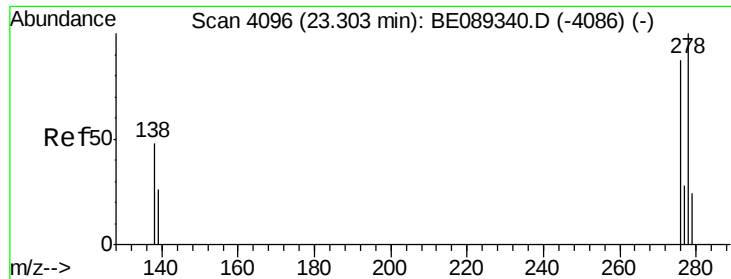


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



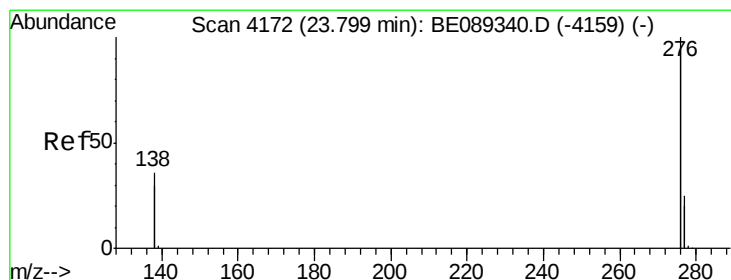
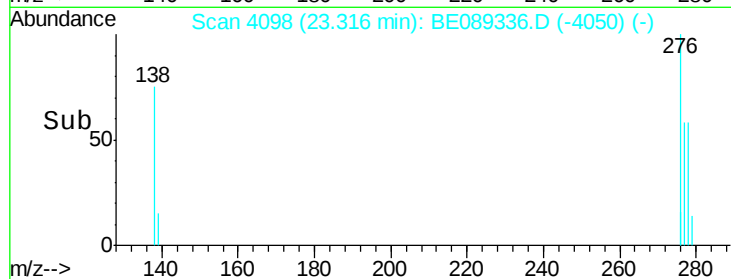
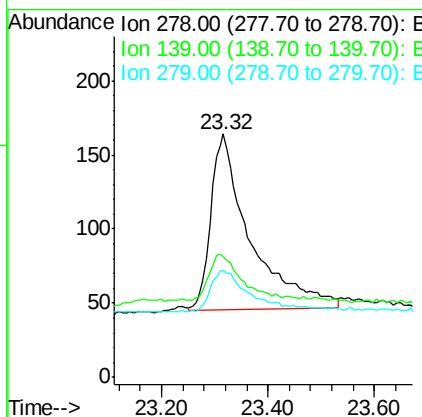
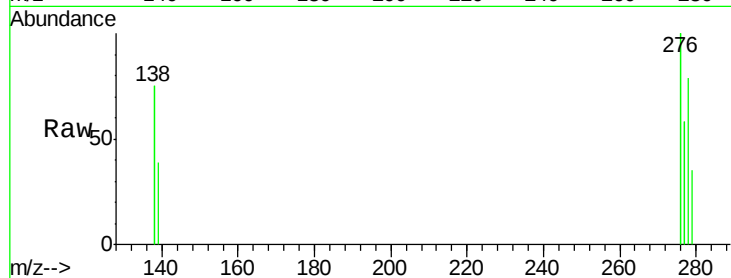


#25
Dibenzo(a,h)anthracene
Concen: 0.07 ng
RT: 23.32 min Scan# 4098
Delta R.T. 0.01 min
Lab File: BE089336.D
Acq: 7 Jan 2015 19:54

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 278 Resp: 612

Ion	Ratio	Lower	Upper
278	100		
139	49.4	22.9	34.3#
279	43.9	20.8	31.2#



#26
Benzo(g,h,i)perylene
Concen: 0.09 ng
RT: 23.82 min Scan# 4176
Delta R.T. 0.03 min
Lab File: BE089336.D
Acq: 7 Jan 2015 19:54

Tgt Ion: 276 Resp: 3372

Ion	Ratio	Lower	Upper
276	100		
277	38.3	20.0	30.0#
138	50.7	28.5	42.7#

