

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010715\
 Data File : BE089338.D
 Acq On : 7 Jan 2015 20:59
 Operator : TP/IZ
 Sample : SSTDICC0.5
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 08 15:23:40 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 15:14:55 2015
 Response via : Initial Calibration

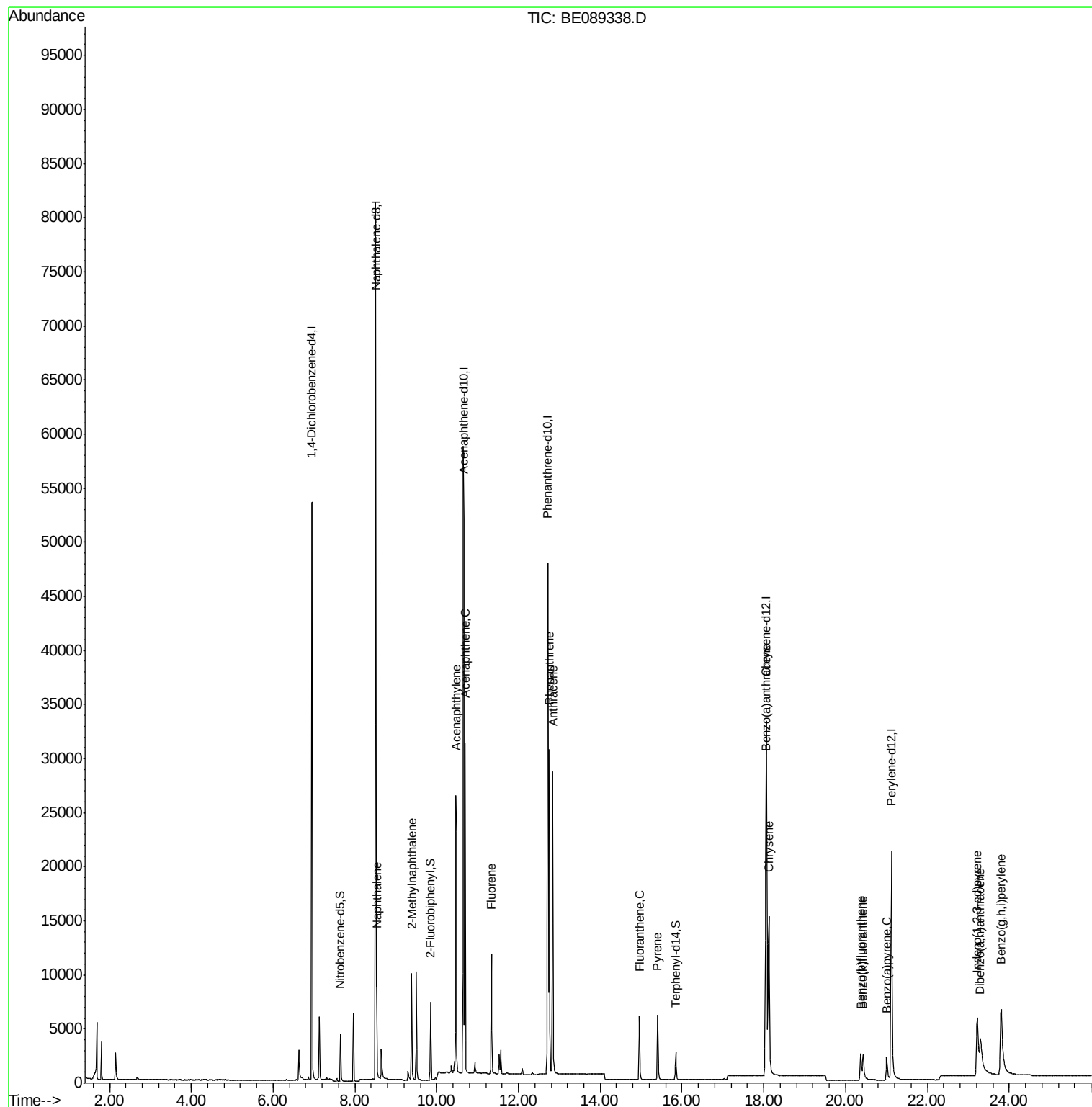
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	17877	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	69384	5.00	ng	0.00
6) Acenaphthene-d10	10.66	164	32526	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	50832	5.00	ng	0.00
15) Chrysene-d12	18.07	240	36173	5.00	ng	0.00
21) Perylene-d12	21.12	264	32007	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	7.65	82	2556	0.53	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	4856	0.55	ng	0.00
17) Terphenyl-d14	15.85	244	3543	0.55	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	8.54	128	8598	0.55	ng	99
5) 2-Methylnaphthalene	9.39	142	5391	0.55	ng	100
8) Acenaphthylene	10.47	152	30997	0.56	ng	99
9) Acenaphthene	10.69	154	4812	0.55	ng	94
10) Fluorene	11.34	166	5196	0.56	ng	100
12) Phenanthrene	12.75	178	29189	0.55	ng	98
13) Anthracene	12.84	178	28097	0.55	ng	100
14) Fluoranthene	14.96	202	6307	0.54	ng	99
16) Pyrene	15.40	202	6566	0.55	ng	99
18) Benzo(a)anthracene	18.04	228	19601	0.53	ng	99
19) Chrysene	18.12	228	20131	0.55	ng	99
20) Indeno(1,2,3-cd)pyrene	23.22	276	11625	0.35	ng	99
22) Benzo(b)fluoranthene	20.37	252	3763	0.54	ng	97
23) Benzo(k)fluoranthene	20.43	252	4839	0.55	ng	98
24) Benzo(a)pyrene	21.01	252	3640	0.53	ng	97
25) Dibenzo(a,h)anthracene	23.30	278	3356	0.53	ng	95
26) Benzo(g,h,i)perylene	23.80	276	17001	0.53	ng	96

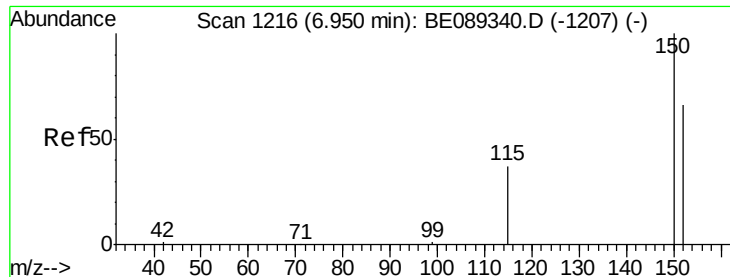
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. 0.00 min

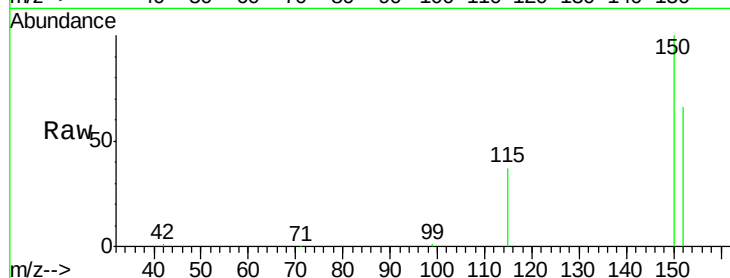
Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

BNA_E

ClientSampleId :



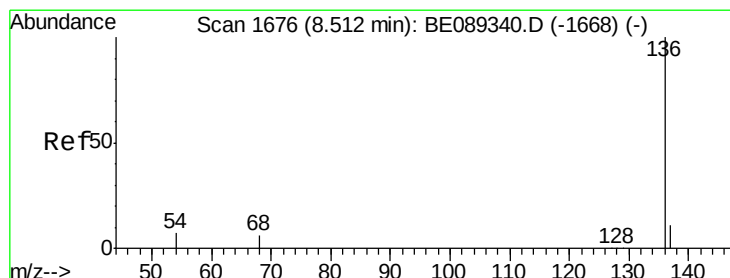
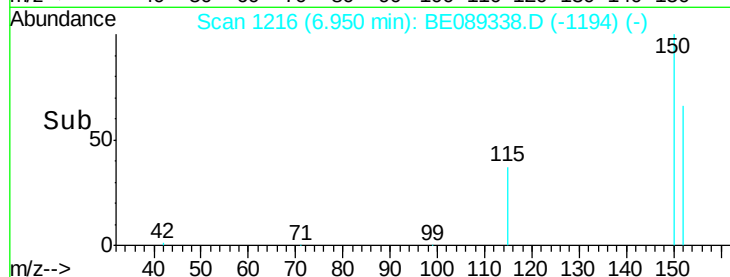
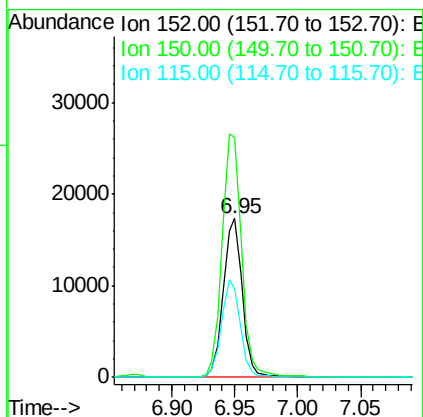
Tgt Ion:152 Resp: 17877

Ion Ratio Lower Upper

152 100

150 150.7 121.5 182.3

115 55.8 45.2 67.8



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Tgt Ion:136 Resp: 69384

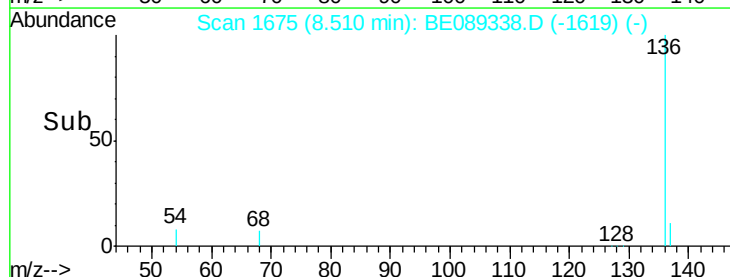
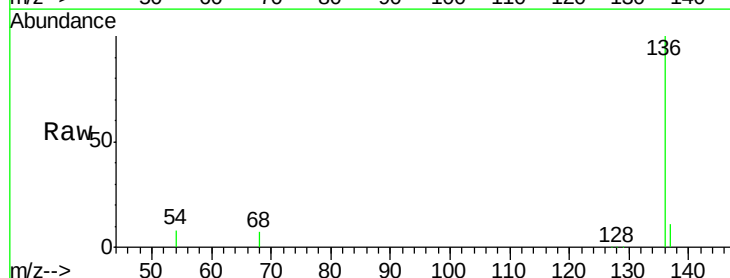
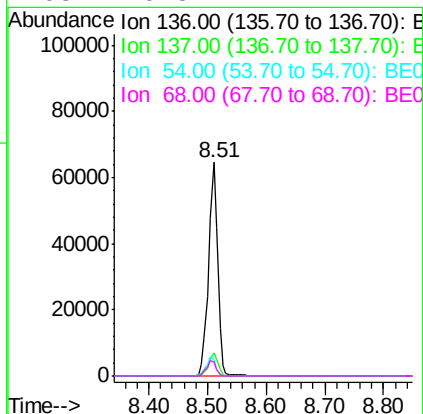
Ion Ratio Lower Upper

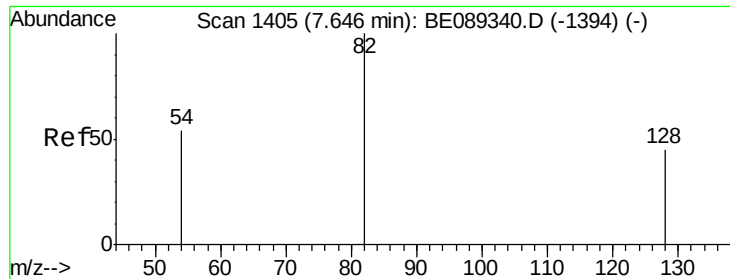
136 100

137 10.8 9.0 13.4

54 7.8 5.4 8.0

68 6.8 4.7 7.1





#3

Nitrobenzene-d5

Concen: 0.53 ng

RT: 7.65 min Scan# 1405

Delta R.T. 0.00 min

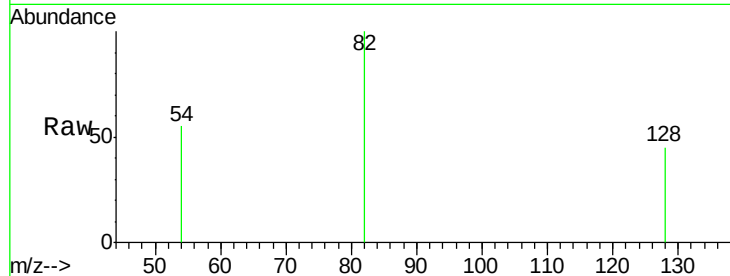
Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

BNA_E

ClientSampleId :



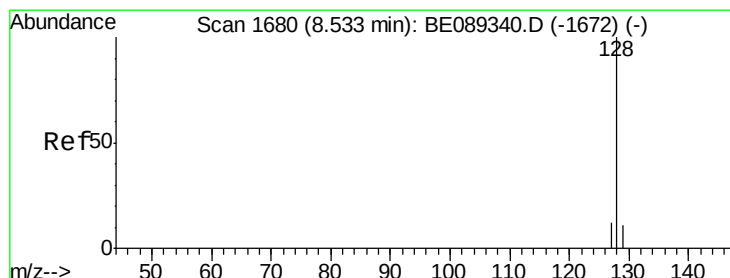
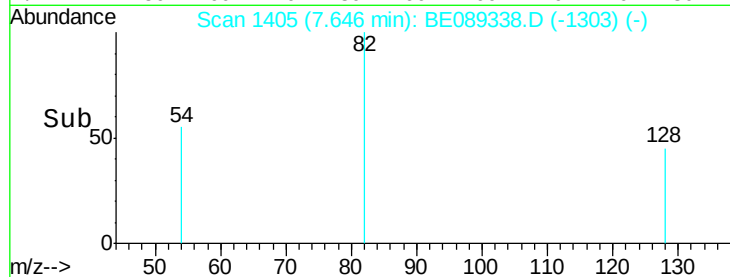
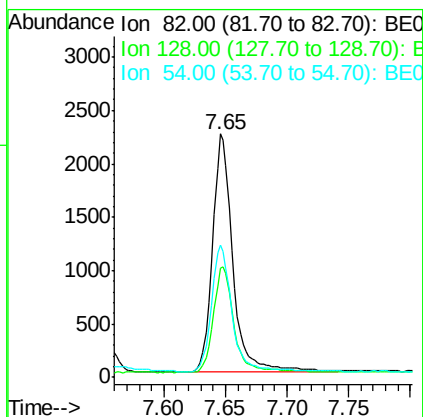
Tgt Ion: 82 Resp: 2556

Ion Ratio Lower Upper

82 100

128 44.8 36.5 54.7

54 54.6 43.5 65.3



#4

Naphthalene

Concen: 0.55 ng

RT: 8.54 min Scan# 1680

Delta R.T. 0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

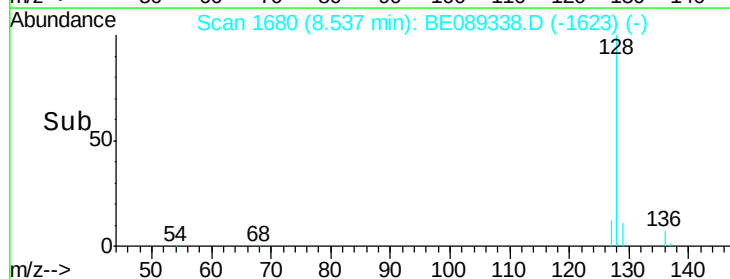
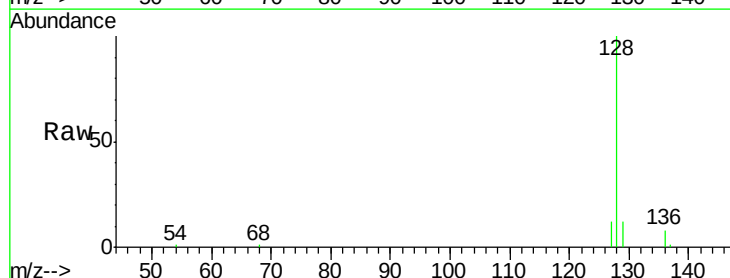
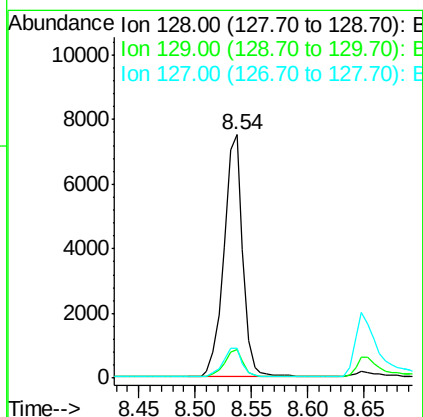
Tgt Ion: 128 Resp: 8598

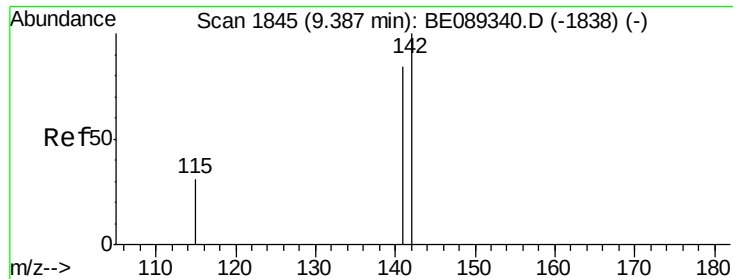
Ion Ratio Lower Upper

128 100

129 11.9 8.8 13.2

127 12.2 10.0 15.0

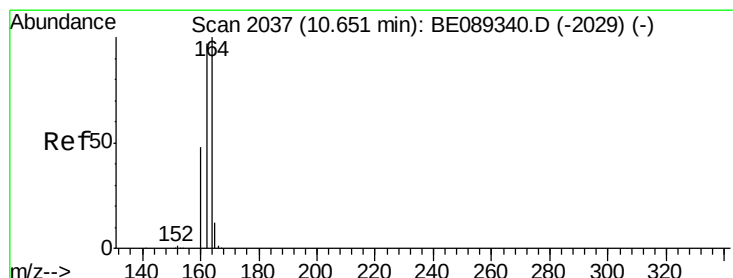
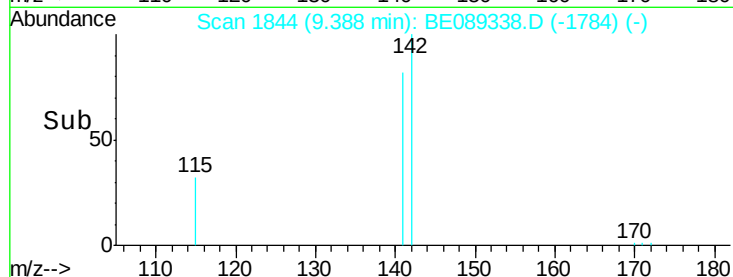
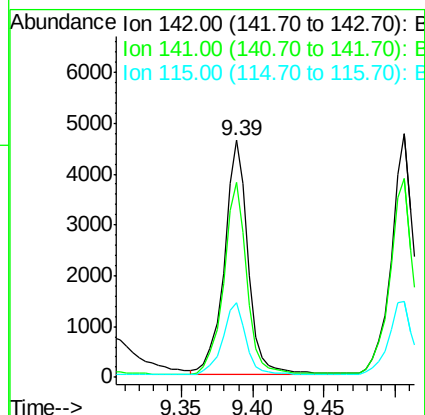
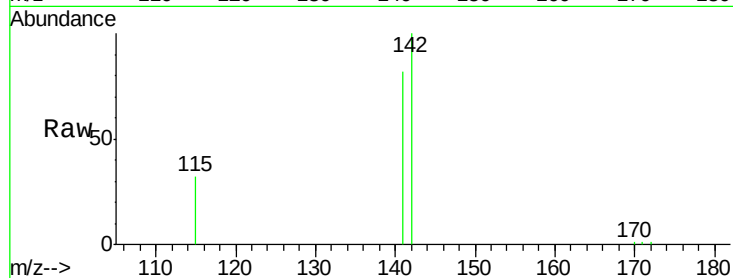




#5
 2-Methylnaphthalene
 Concen: 0.55 ng
 RT: 9.39 min Scan# 1844
 Delta R.T. 0.00 min
 Lab File: BE089338.D
 Acq: 7 Jan 2015 20:59

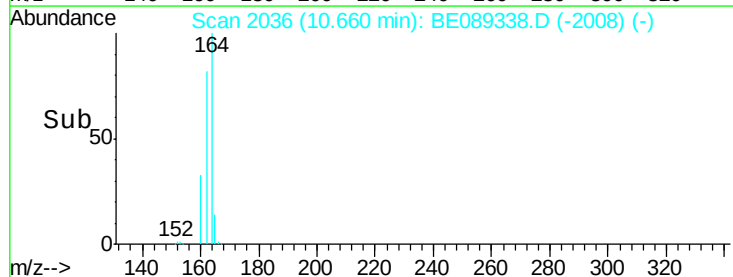
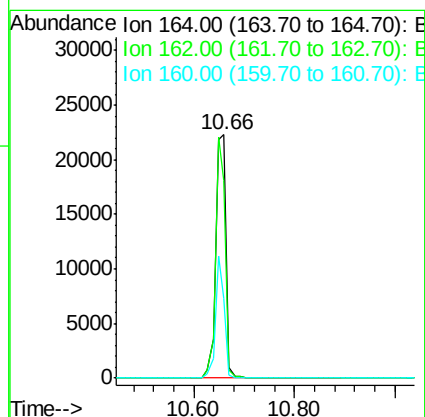
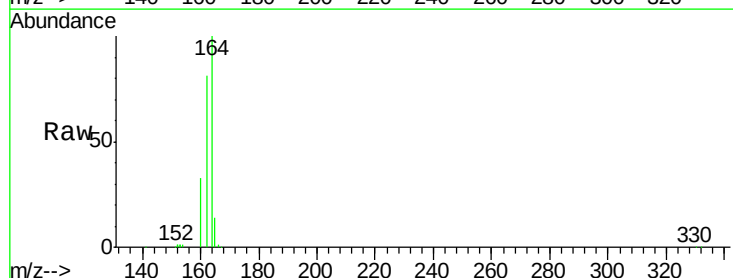
Instrument :
 BNA_E
 ClientSampleId :

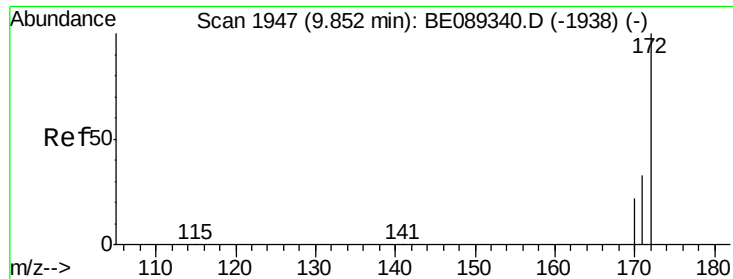
Tgt Ion:142 Resp: 5391
 Ion Ratio Lower Upper
 142 100
 141 82.4 66.3 99.5
 115 31.5 25.2 37.8



#6
 Acenaphthene-d10
 Concen: 5.00 ng
 RT: 10.66 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: BE089338.D
 Acq: 7 Jan 2015 20:59

Tgt Ion:164 Resp: 32526
 Ion Ratio Lower Upper
 164 100
 162 81.2 77.4 116.2
 160 32.7 38.2 57.4#





#7

2-Fluorobiphenyl

Concen: 0.55 ng

RT: 9.85 min Scan# 1946

Delta R.T. 0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

BNA_E

ClientSampleId :

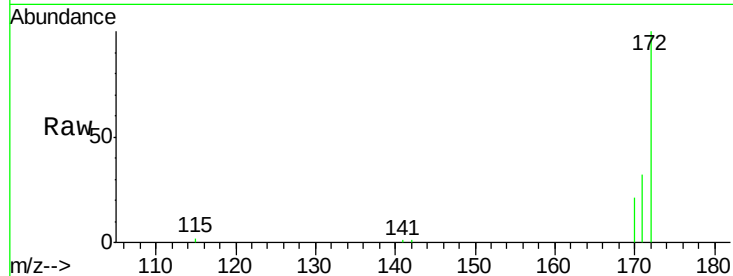
Tgt Ion:172 Resp: 4856

Ion Ratio Lower Upper

172 100

171 32.0 26.4 39.6

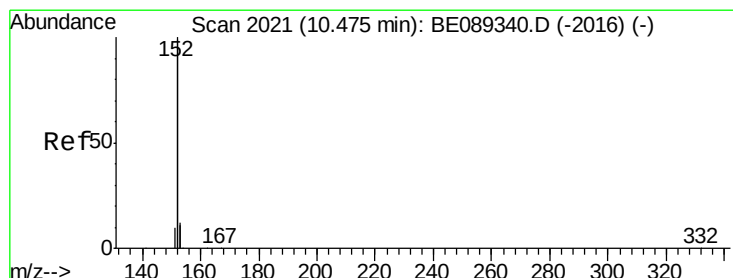
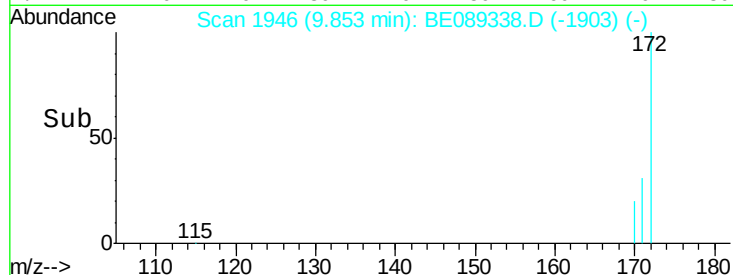
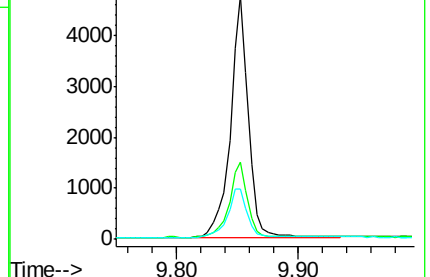
170 20.9 18.0 27.0



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: 0.56 ng

RT: 10.47 min Scan# 2019

Delta R.T. -0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

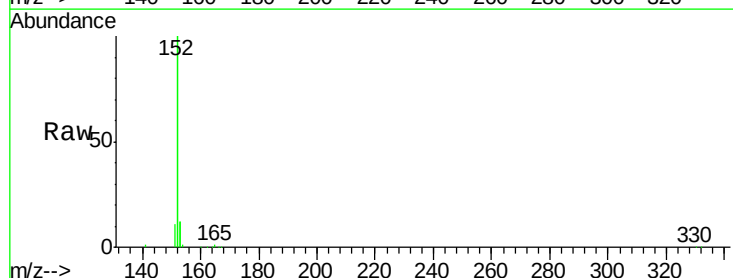
Tgt Ion:152 Resp: 30997

Ion Ratio Lower Upper

152 100

151 5.3 4.1 6.1

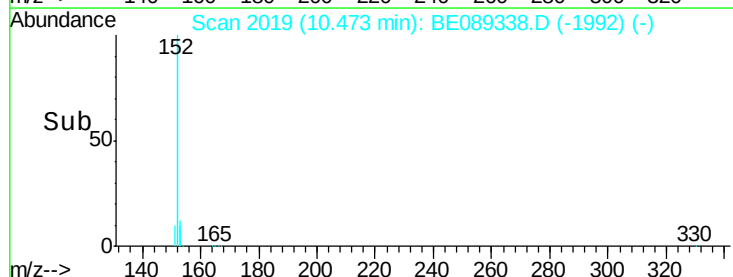
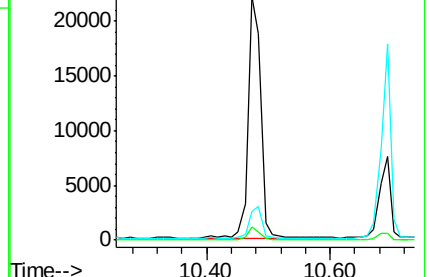
153 11.9 9.8 14.6

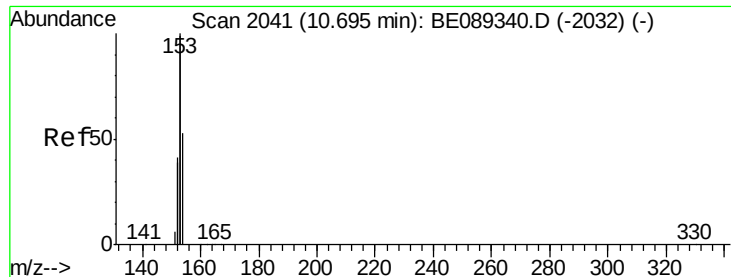


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.55 ng

RT: 10.69 min Scan# 2039

Delta R.T. -0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

BNA_E

ClientSampleId :

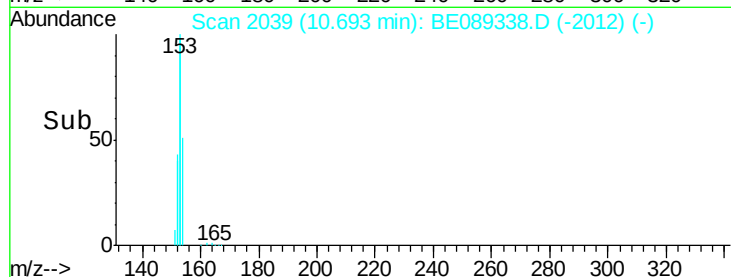
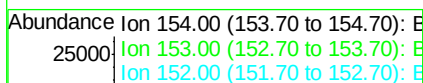
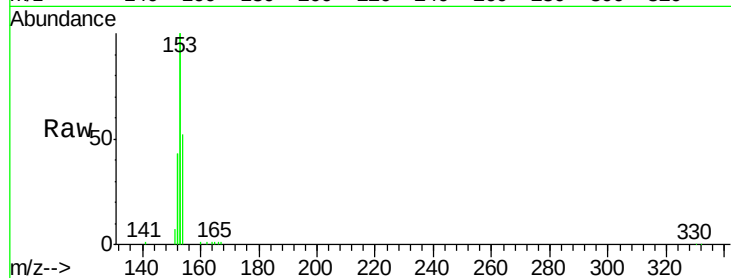
Tgt Ion:154 Resp: 4812

Ion Ratio Lower Upper

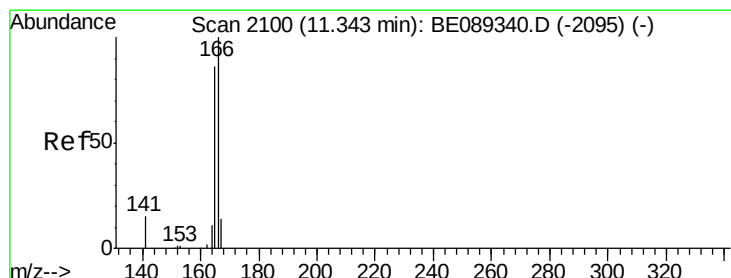
154 100

153 386.7 300.6 450.8

152 165.9 123.3 184.9



Time-->



#10

Fluorene

Concen: 0.56 ng

RT: 11.34 min Scan# 2098

Delta R.T. -0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

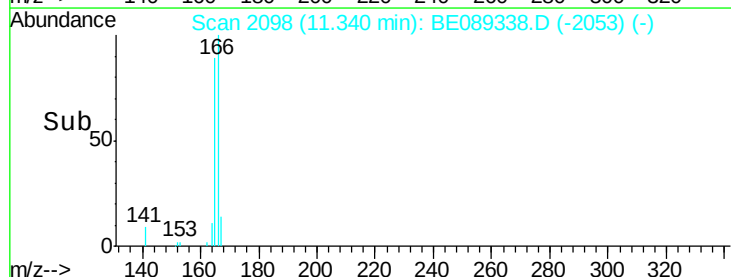
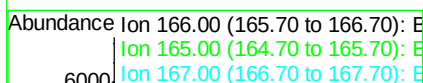
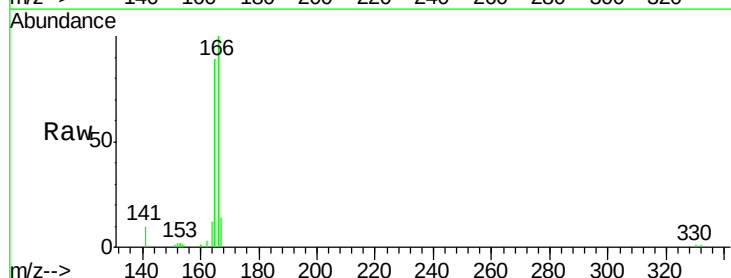
Tgt Ion:166 Resp: 5196

Ion Ratio Lower Upper

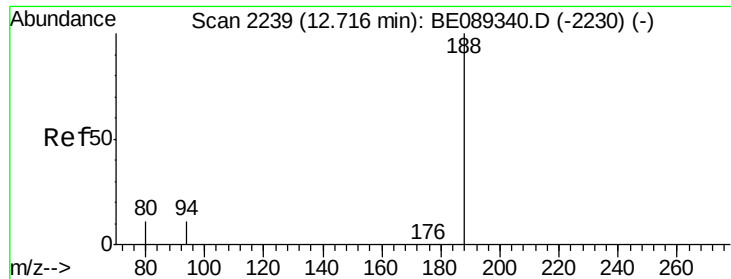
166 100

165 89.6 72.1 108.1

167 13.7 11.0 16.4



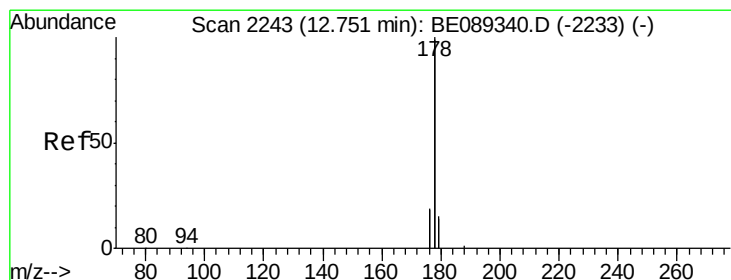
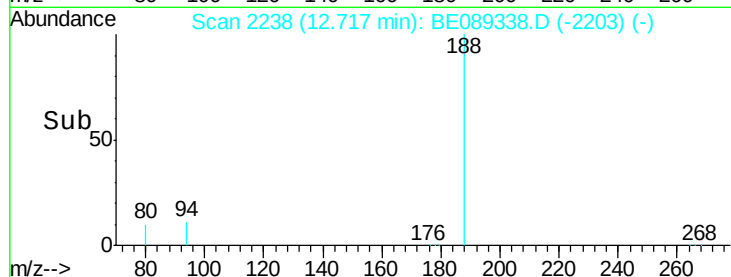
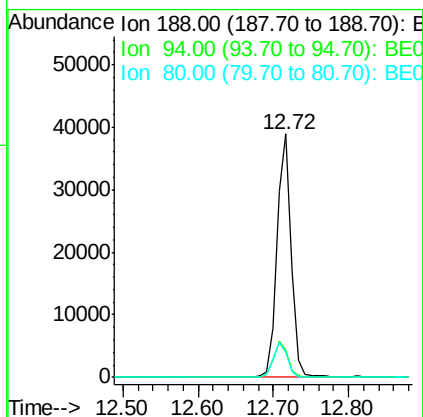
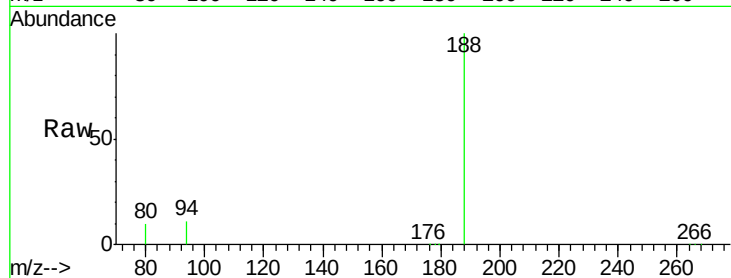
Time-->



#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.72 min Scan# 2238
 Delta R.T. 0.00 min
 Lab File: BE089338.D
 Acq: 7 Jan 2015 20:59

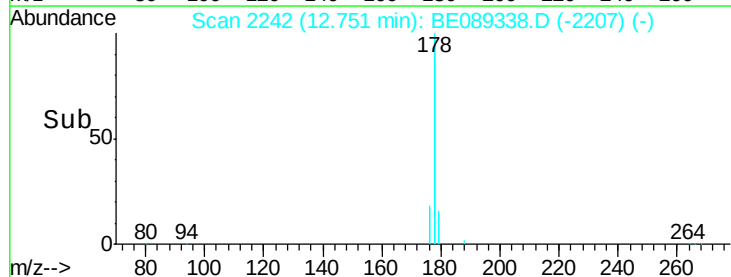
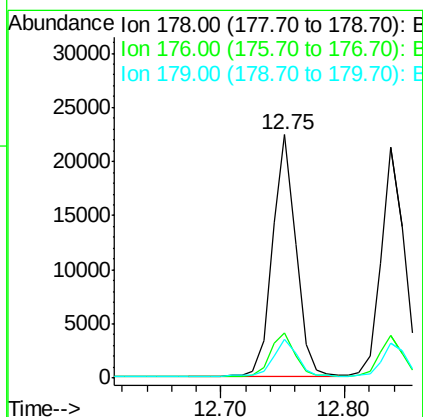
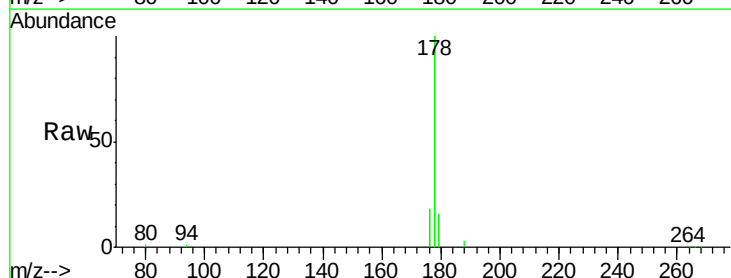
Instrument :
 BNA_E
 ClientSampleId :

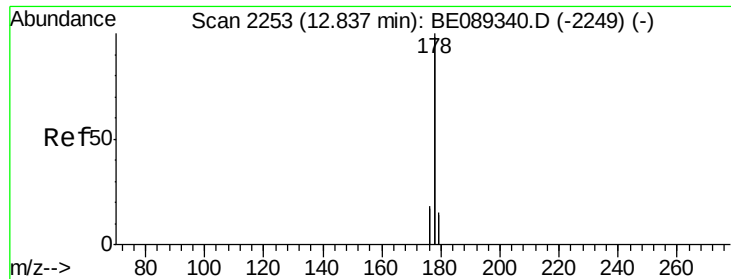
Tgt Ion:188 Resp: 50832
 Ion Ratio Lower Upper
 188 100
 94 11.2 11.0 12.2
 80 9.9 10.1 11.1#



#12
 Phenanthrene
 Concen: 0.55 ng
 RT: 12.75 min Scan# 2242
 Delta R.T. 0.00 min
 Lab File: BE089338.D
 Acq: 7 Jan 2015 20:59

Tgt Ion:178 Resp: 29189
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.1 22.7
 179 16.2 12.2 18.2





#13

Anthracene

Concen: 0.55 ng

RT: 12.84 min Scan# 2252

Delta R.T. 0.00 min

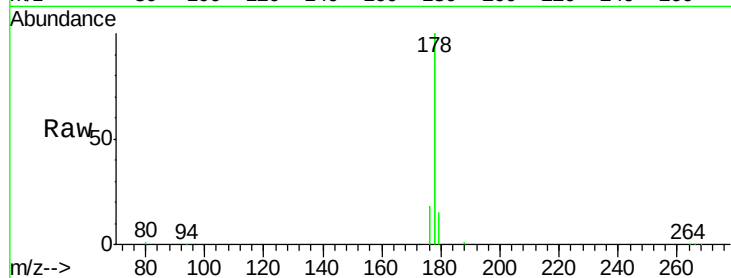
Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

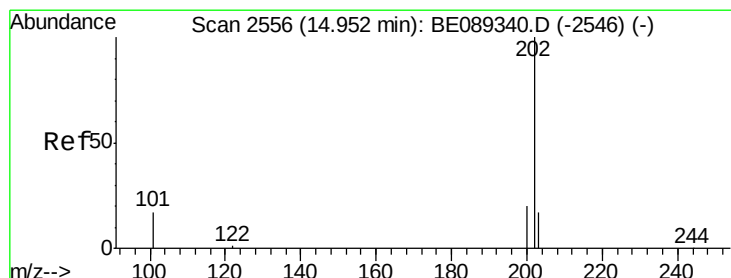
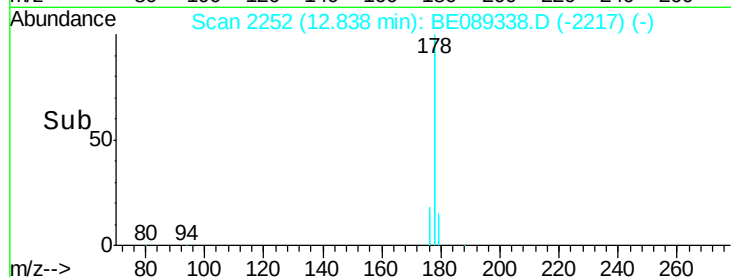
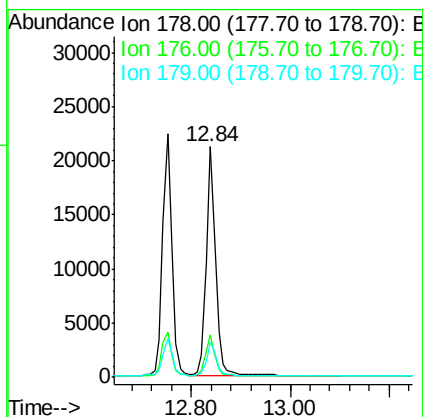
BNA_E

ClientSampleId :



Tgt Ion:178 Resp: 28097

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.4	12.0	18.0



#14

Fluoranthene

Concen: 0.54 ng

RT: 14.96 min Scan# 2556

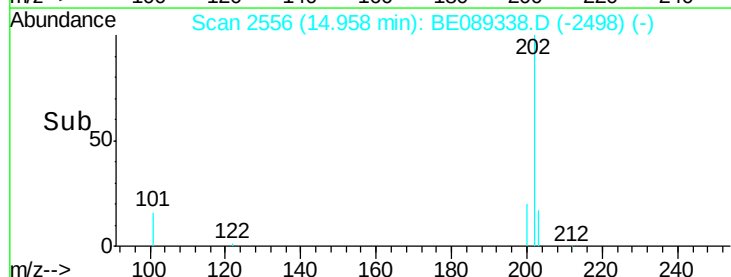
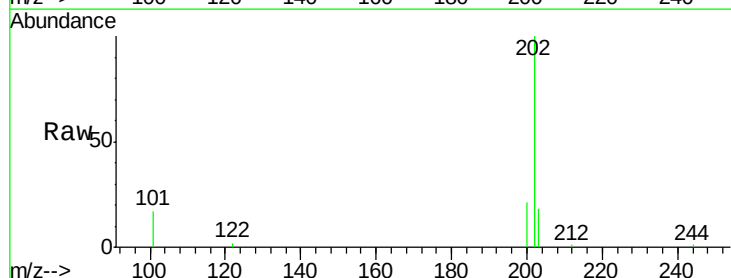
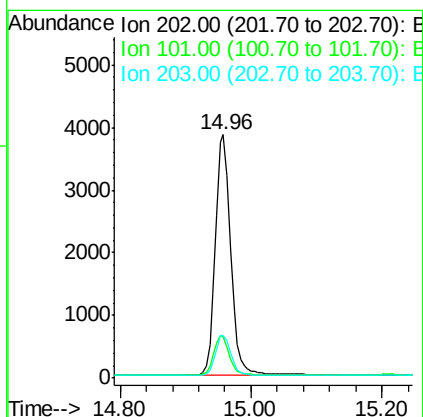
Delta R.T. 0.01 min

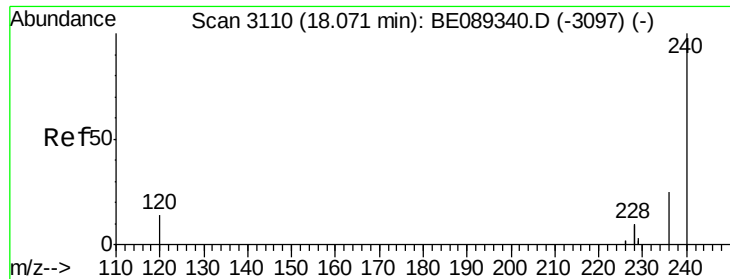
Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Tgt Ion:202 Resp: 6307

Ion	Ratio	Lower	Upper
202	100		
101	17.1	0.0	37.9
203	17.8	0.0	37.5





#15

Chrysene-d12

Concen: 5.00 ng

RT: 18.07 min Scan# 3109

Delta R.T. -0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

BNA_E

ClientSampleId :

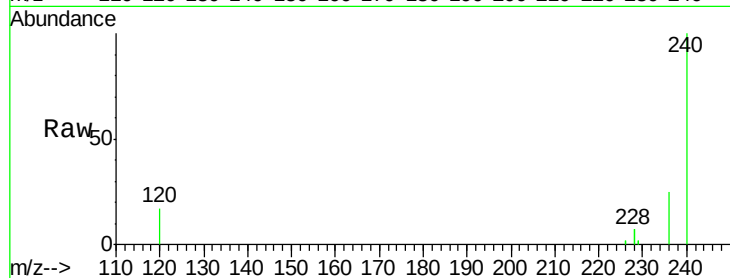
Tgt Ion:240 Resp: 36173

Ion Ratio Lower Upper

240 100

120 17.1 11.8 17.6

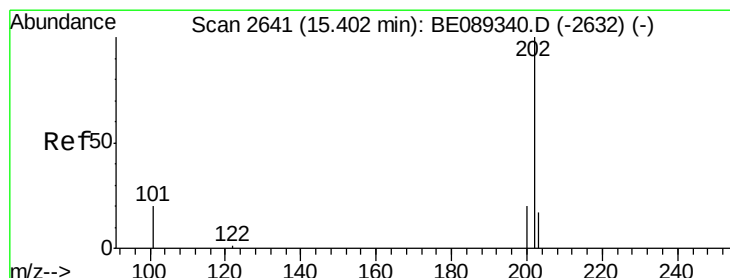
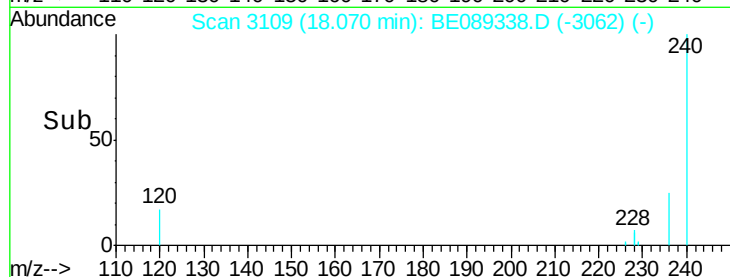
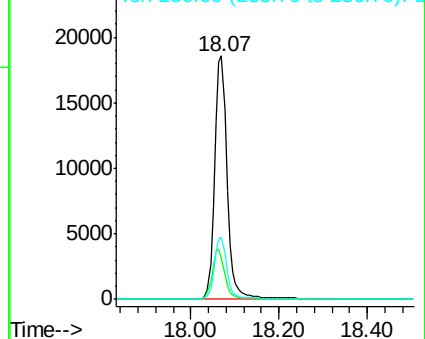
236 25.3 20.0 30.0



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: 0.55 ng

RT: 15.40 min Scan# 2640

Delta R.T. 0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

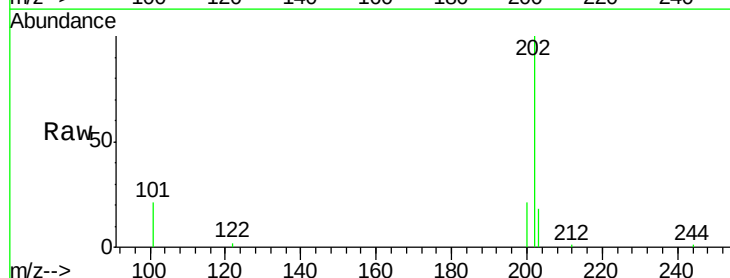
Tgt Ion:202 Resp: 6566

Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

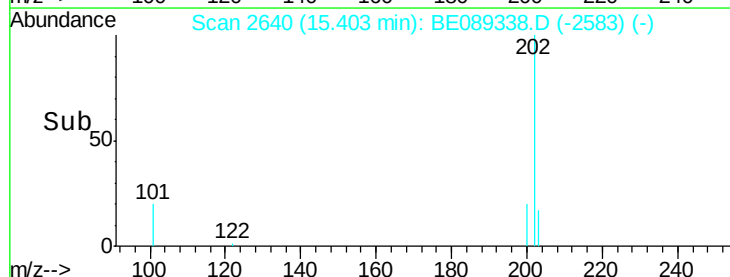
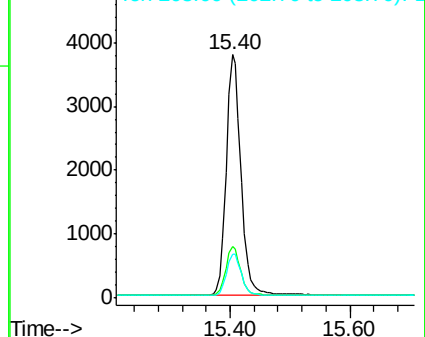
203 18.2 14.0 21.0

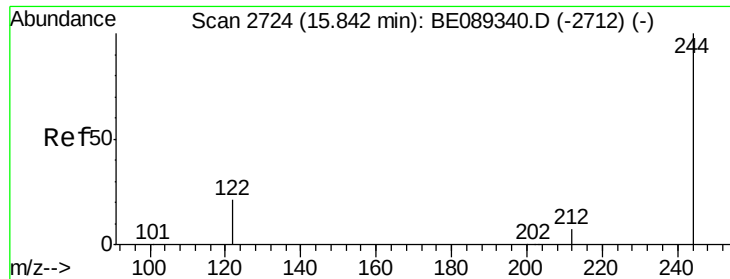


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

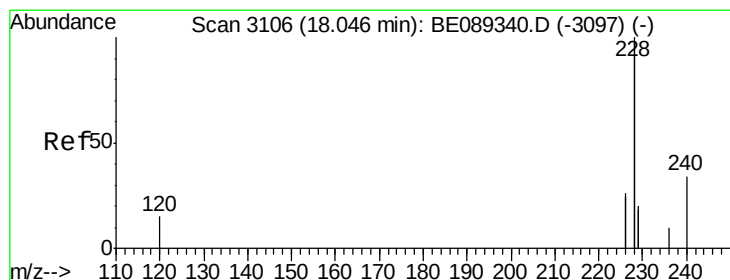
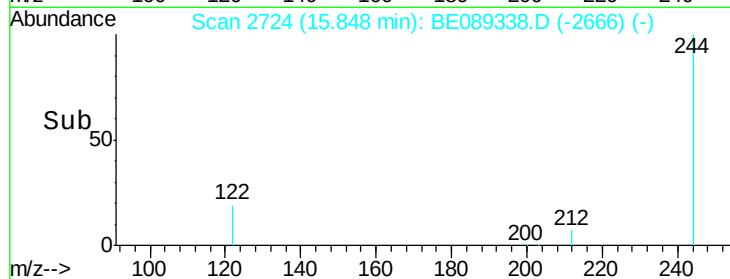
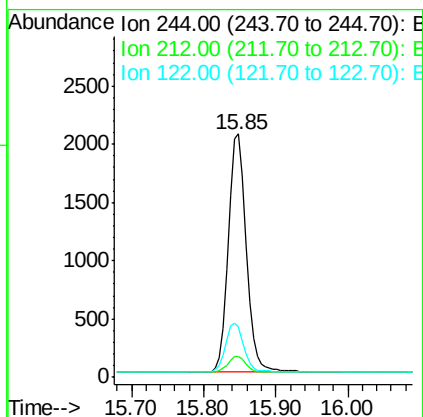
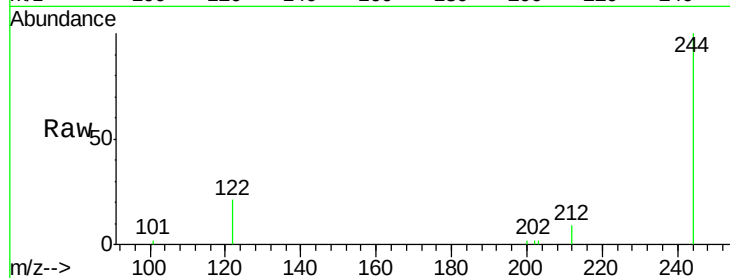




#17
 Terphenyl-d14
 Concen: 0.55 ng
 RT: 15.85 min Scan# 2724
 Delta R.T. 0.01 min
 Lab File: BE089338.D
 Acq: 7 Jan 2015 20:59

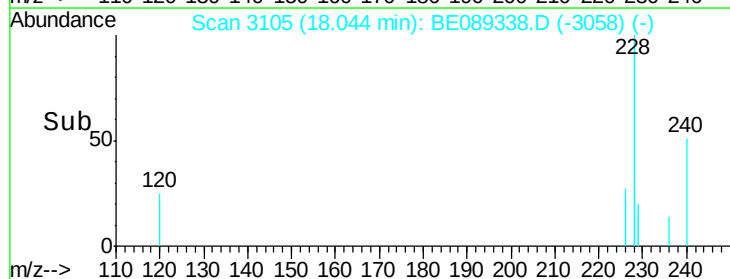
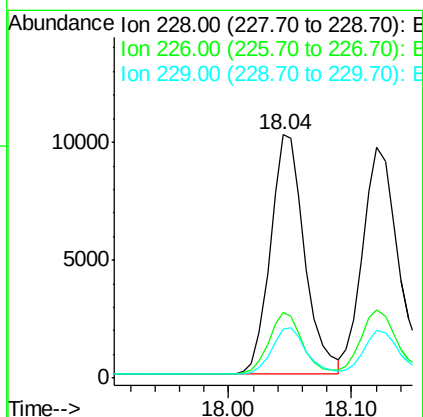
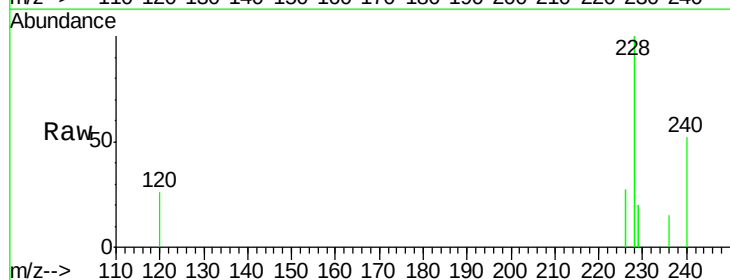
Instrument :
 BNA_E
 ClientSampled :

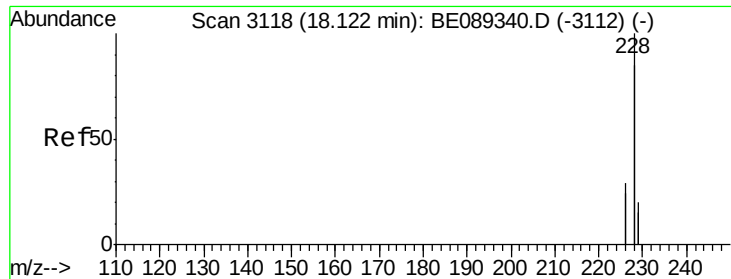
Tgt Ion:244 Resp: 3543
 Ion Ratio Lower Upper
 244 100
 212 8.5 6.3 9.5
 122 20.5 17.7 26.5



#18
 Benzo(a)anthracene
 Concen: 0.53 ng
 RT: 18.04 min Scan# 3105
 Delta R.T. -0.00 min
 Lab File: BE089338.D
 Acq: 7 Jan 2015 20:59

Tgt Ion:228 Resp: 19601
 Ion Ratio Lower Upper
 228 100
 226 27.2 21.0 31.6
 229 20.3 16.0 24.0





#19

Chrysene

Concen: 0.55 ng

RT: 18.12 min Scan# 3117

Delta R.T. -0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

BNA_E

ClientSampleId :

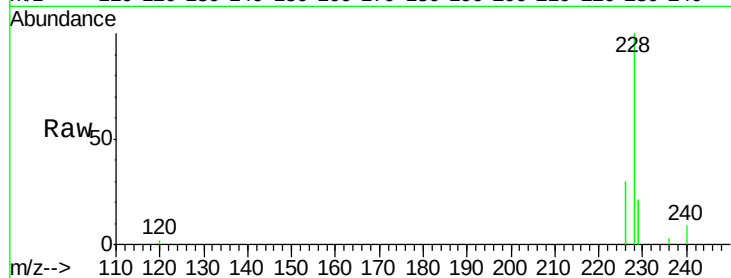
Tgt Ion:228 Resp: 20131

Ion Ratio Lower Upper

228 100

226 29.7 23.5 35.3

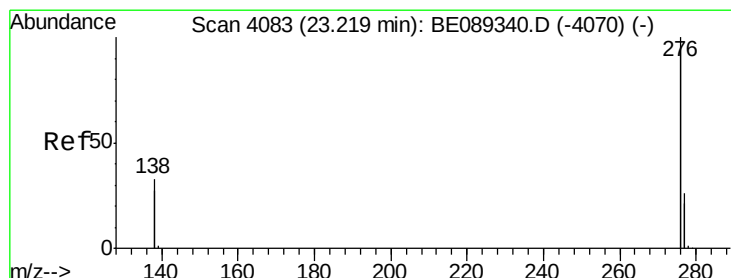
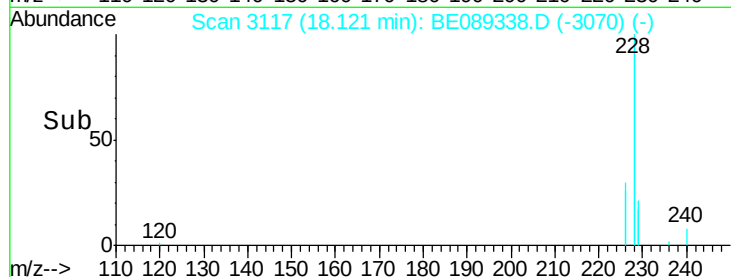
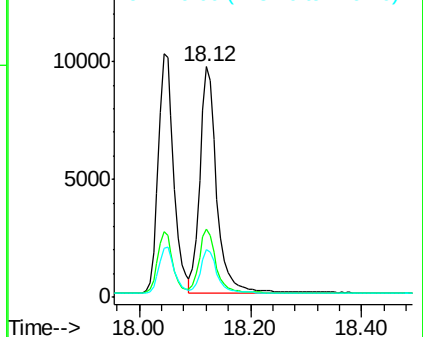
229 20.7 16.1 24.1



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



#20

Indeno(1,2,3-cd)pyrene

Concen: 0.35 ng

RT: 23.22 min Scan# 4083

Delta R.T. 0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

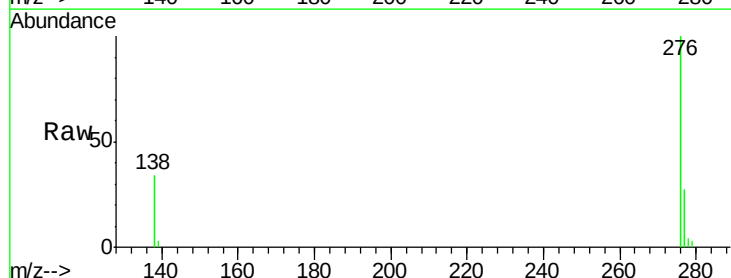
Tgt Ion:276 Resp: 11625

Ion Ratio Lower Upper

276 100

138 30.4 23.8 35.8

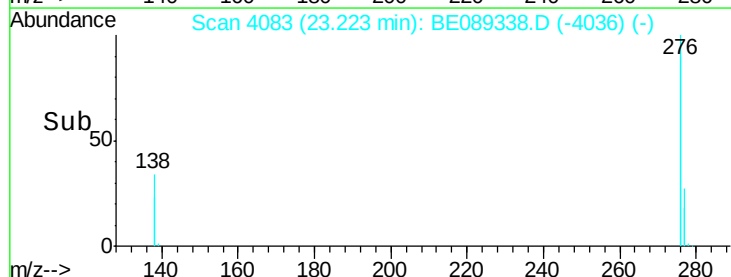
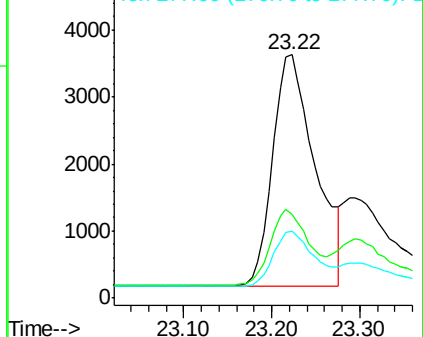
277 22.7 18.2 27.4

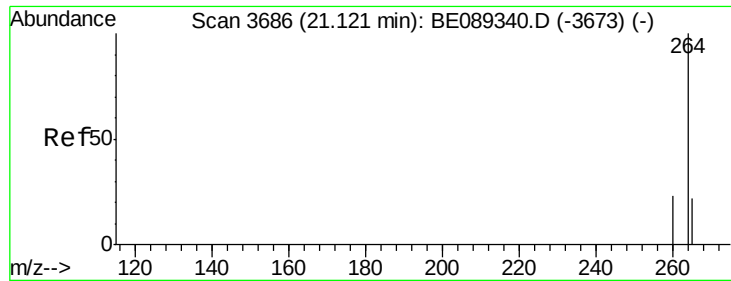


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

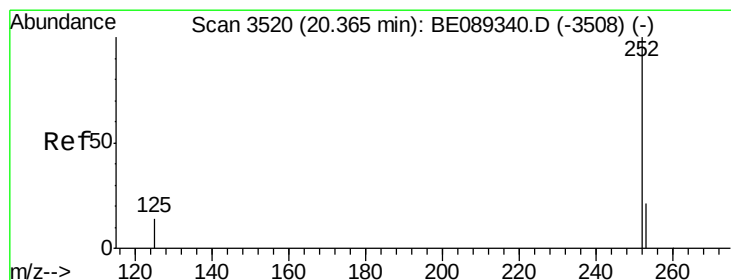
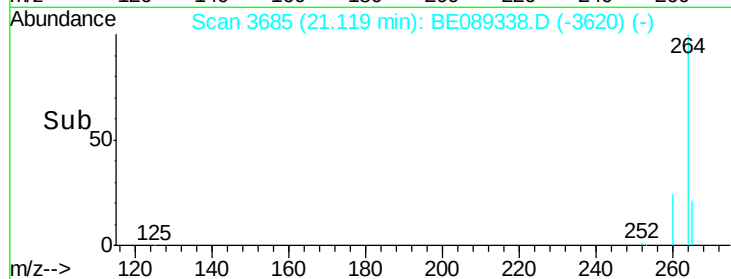
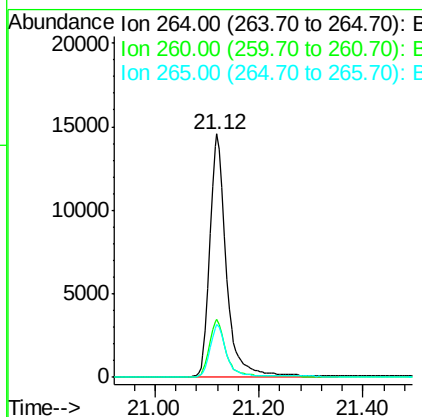
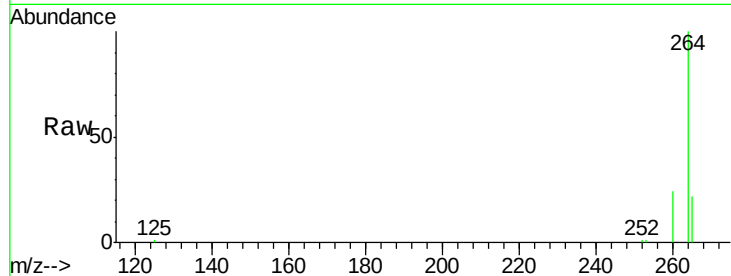




#21
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.12 min Scan# 3685
 Delta R.T. -0.00 min
 Lab File: BE089338.D
 Acq: 7 Jan 2015 20:59

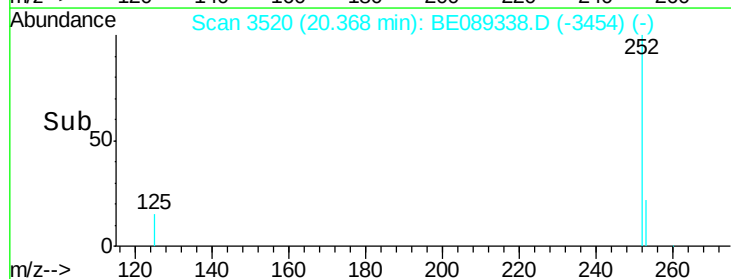
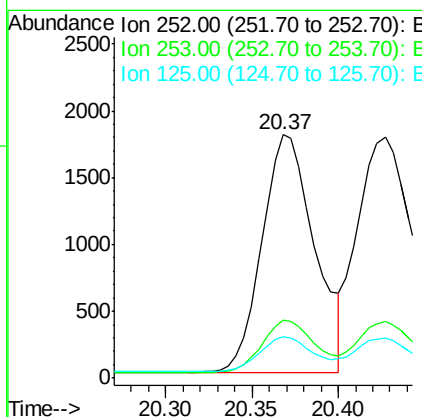
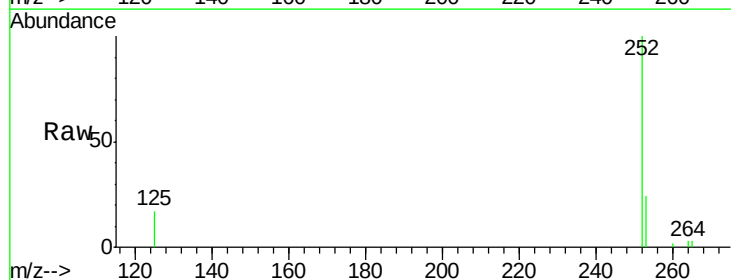
Instrument :
 BNA_E
 ClientSampleId :

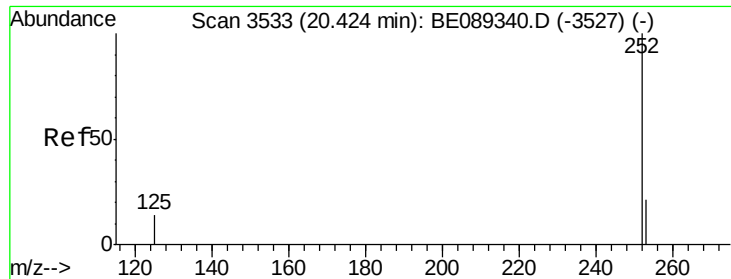
Tgt Ion:264 Resp: 32007
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.9 28.3
 265 21.6 17.4 26.2



#22
 Benzo(b)fluoranthene
 Concen: 0.54 ng
 RT: 20.37 min Scan# 3520
 Delta R.T. 0.00 min
 Lab File: BE089338.D
 Acq: 7 Jan 2015 20:59

Tgt Ion:252 Resp: 3763
 Ion Ratio Lower Upper
 252 100
 253 23.8 17.8 26.6
 125 17.1 12.6 18.8





#23

Benzo(k)fluoranthene

Concen: 0.55 ng

RT: 20.43 min Scan# 3533

Delta R.T. 0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

BNA_E

ClientSampleId :

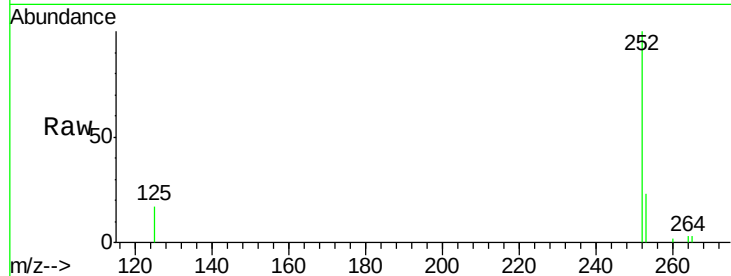
Tgt Ion:252 Resp: 4839

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

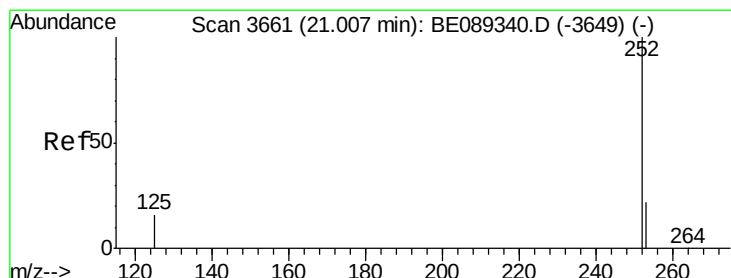
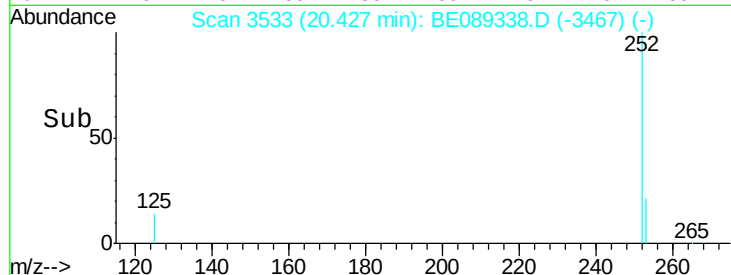
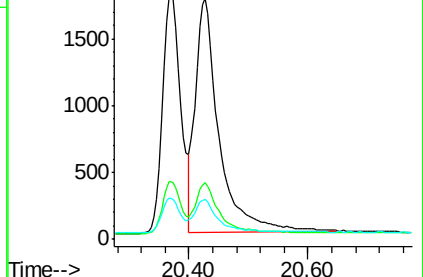
125 16.8 12.4 18.6



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: 0.53 ng

RT: 21.01 min Scan# 3660

Delta R.T. -0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

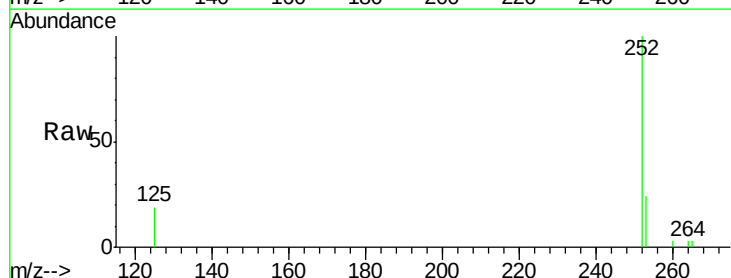
Tgt Ion:252 Resp: 3640

Ion Ratio Lower Upper

252 100

253 24.2 18.3 27.5

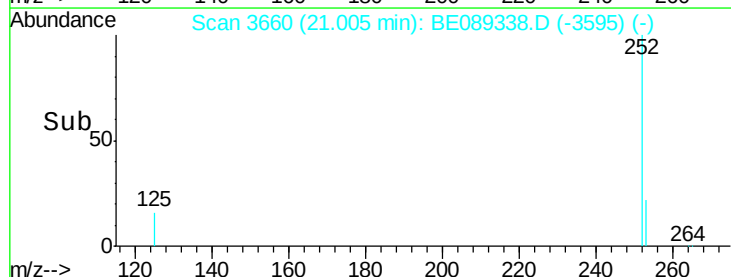
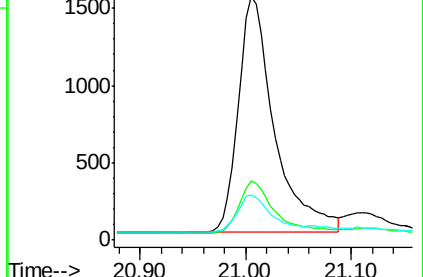
125 18.7 13.8 20.8

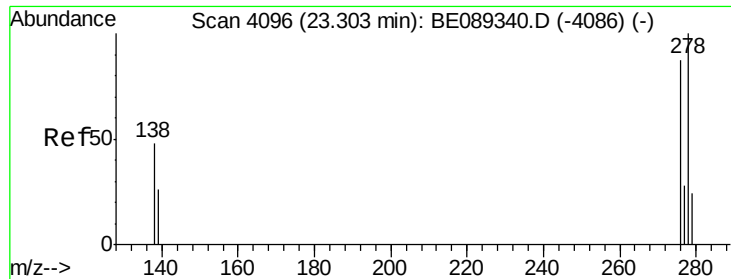


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.53 ng

RT: 23.30 min Scan# 4095

Delta R.T. -0.00 min

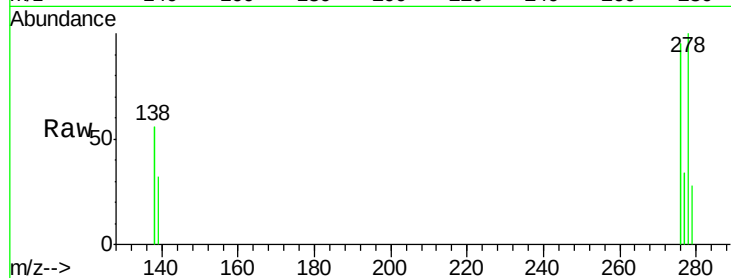
Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Instrument :

BNA_E

ClientSampleId :



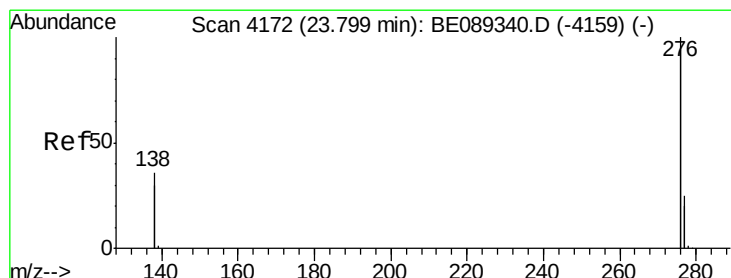
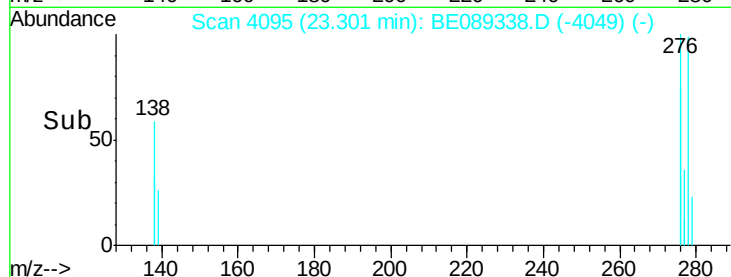
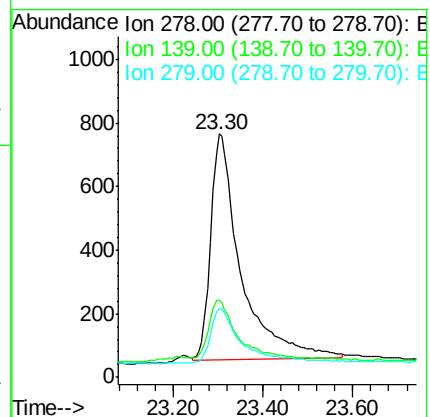
Tgt Ion:278 Resp: 3356

Ion Ratio Lower Upper

278 100

139 31.6 22.9 34.3

279 28.1 20.8 31.2



#26

Benzo(g,h,i)perylene

Concen: 0.53 ng

RT: 23.80 min Scan# 4172

Delta R.T. 0.00 min

Lab File: BE089338.D

Acq: 7 Jan 2015 20:59

Tgt Ion:276 Resp: 17001

Ion Ratio Lower Upper

276 100

277 27.4 20.0 30.0

138 37.8 28.5 42.7

