

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089490.D
 Acq On : 1 Feb 2015 7:43
 Operator : TP/IZ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 04:11:58 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	58786	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	236126	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	115798	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	184447	5.00	ng	0.00
16) Chrysene-d12	23.84	240	144542	5.00	ng	0.00
22) Perylene-d12	25.55	264	121063	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	151712	9.70	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	257877	8.45	ng	0.00
18) Terphenyl-d14	22.48	244	225159	10.40	ng	0.00

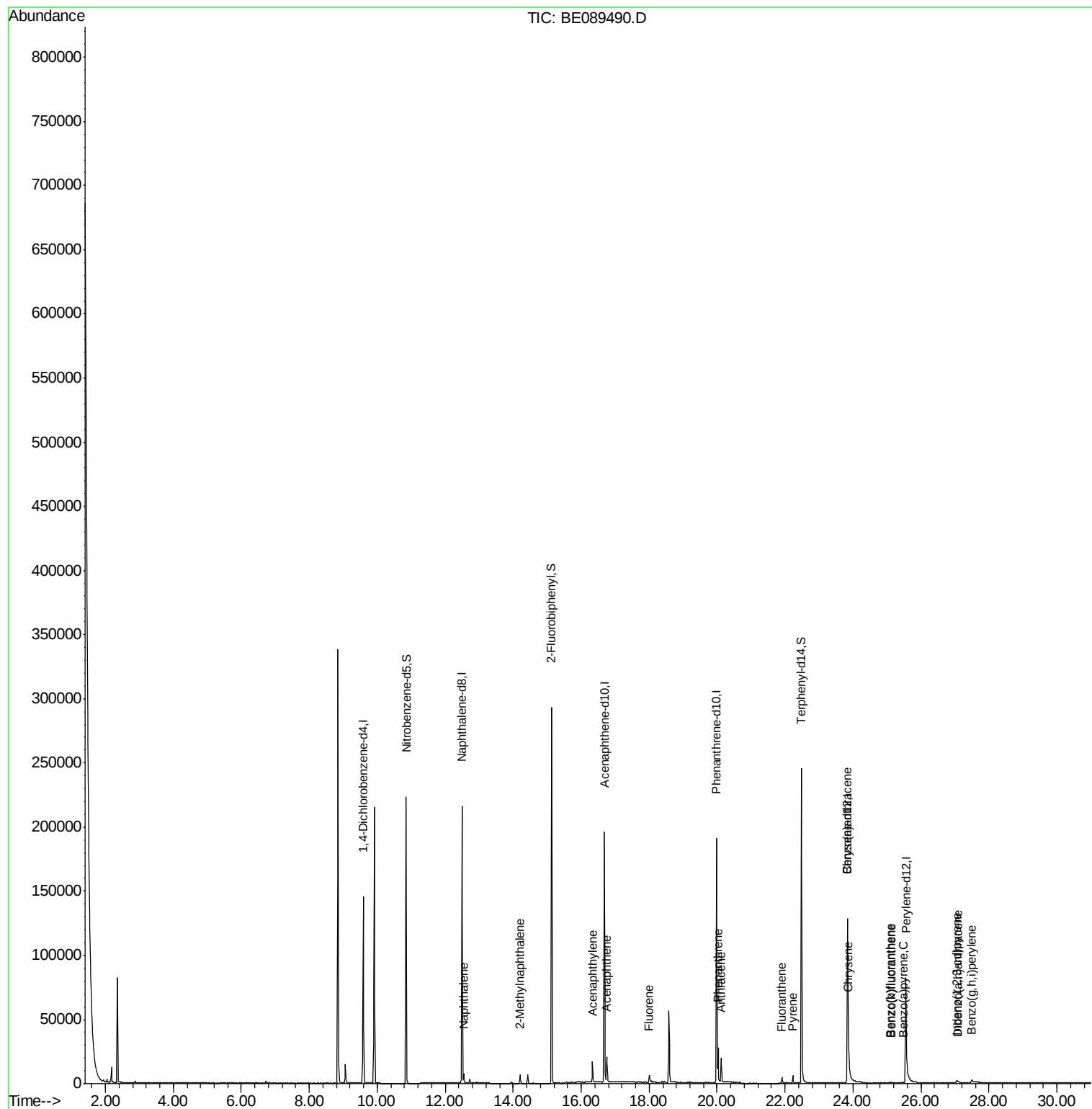
Target Compounds						Qvalue
4) Naphthalene	12.54	128	8021	0.14	ng	99
5) 2-Methylnaphthalene	14.20	142	4512	0.13	ng	94
8) Acenaphthylene	16.34	152	23029	0.11	ng	100
9) Acenaphthene	16.75	154	3932	0.13	ng	95
10) Fluorene	18.00	166	4196	0.12	ng	98
12) Pentachlorophenol	19.66	266	121	Below Cal	#	84
13) Phenanthrene	20.03	178	26827	0.15	ng	98
14) Anthracene	20.12	178	20103	0.12	ng	99
15) Fluoranthene	21.91	202	4560	0.12	ng	99
17) Pyrene	22.23	202	4895	0.13	ng	99
19) Benzo(a)anthracene	23.83	228	11432	0.09	ng	95
20) Chrysene	23.87	228	22859	0.17	ng	95
21) Indeno(1,2,3-cd)pyrene	27.04	276	3417	0.03	ng	# 93
23) Benzo(b)fluoranthene	25.09	252	874	0.23	ng	# 77
24) Benzo(k)fluoranthene	25.13	252	1551	0.05	ng	# 85
25) Benzo(a)pyrene	25.48	252	921	0.16	ng	# 77
26) Dibenzo(a,h)anthracene	27.08	278	545	0.15	ng	# 63
27) Benzo(g,h,i)perylene	27.49	276	5311	0.05	ng	# 75

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.00 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :

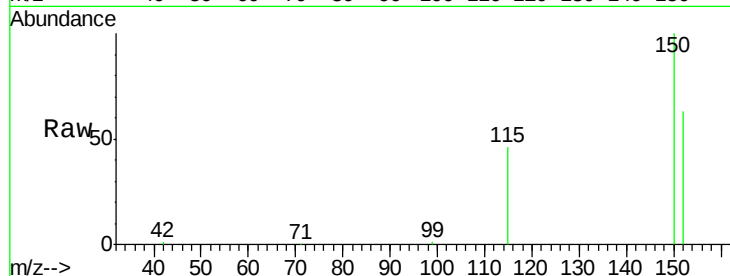
Tgt Ion:152 Resp: 58786

Ion Ratio Lower Upper

152 100

150 159.3 127.2 190.8

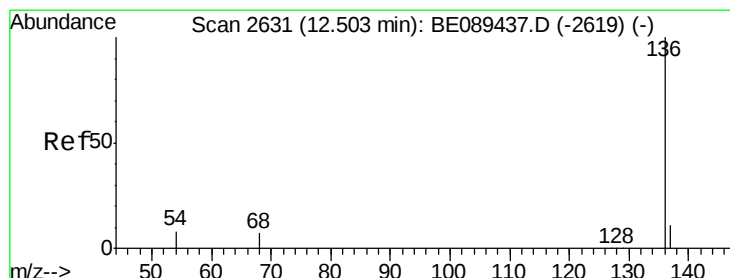
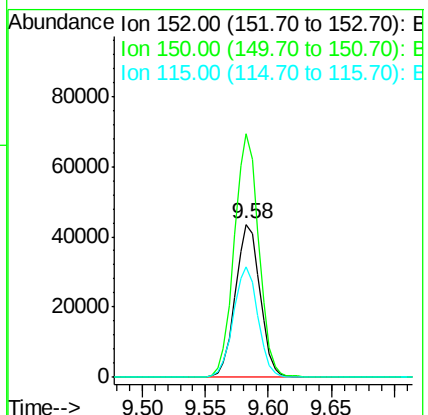
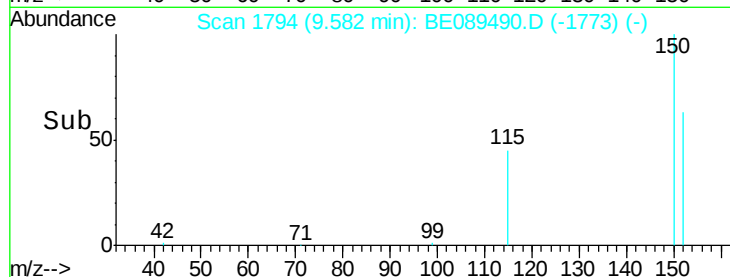
115 72.6 57.5 86.3



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: 12.49 min Scan# 2629

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

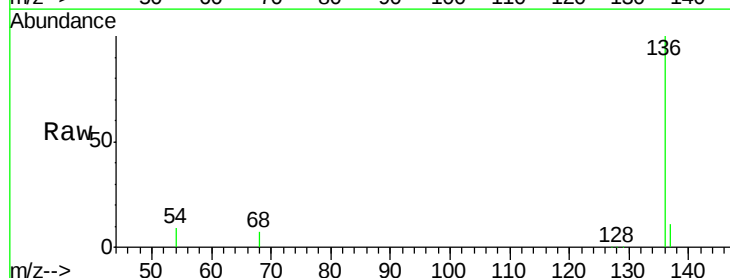
Tgt Ion:136 Resp: 236126

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

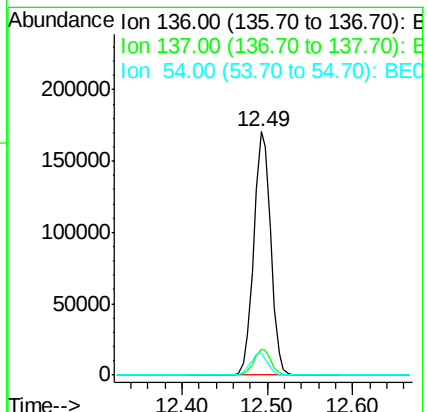
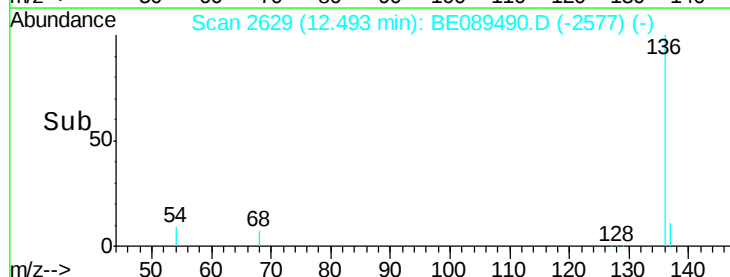
54 9.0 6.6 10.0



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





#3

Nitrobenzene-d5

Concen: 9.70 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.00 min

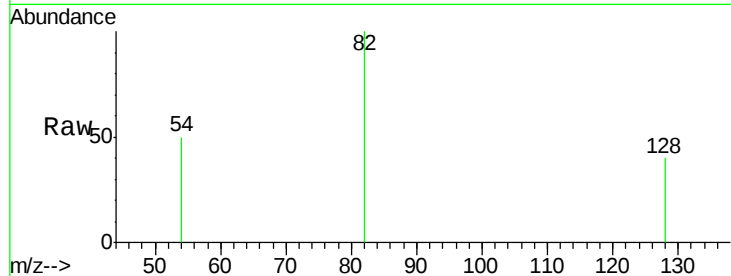
Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

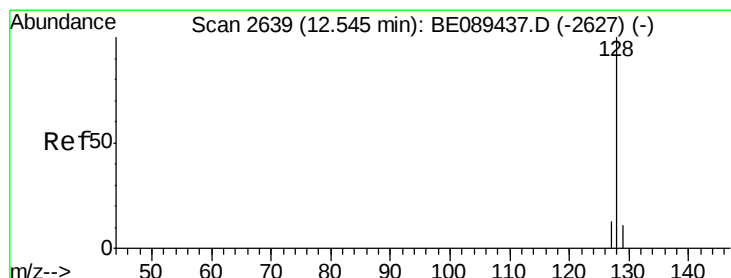
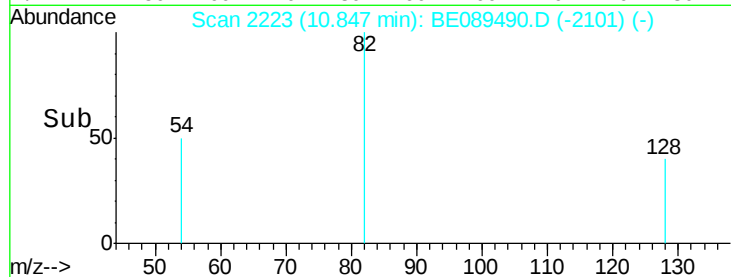
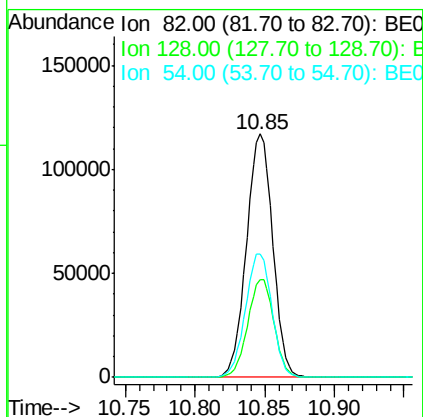
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	151712
Ion	Ratio	Lower	Upper
82	100		
128	40.4	31.2	46.8
54	50.5	41.9	62.9



#4

Naphthalene

Concen: 0.14 ng

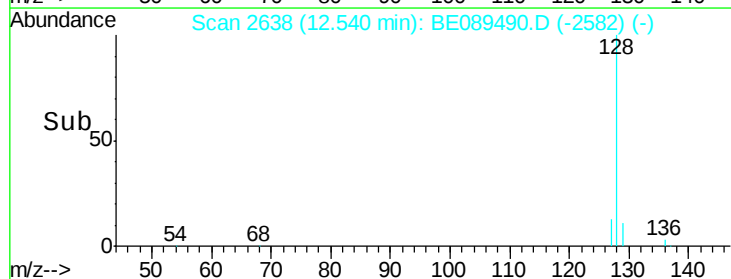
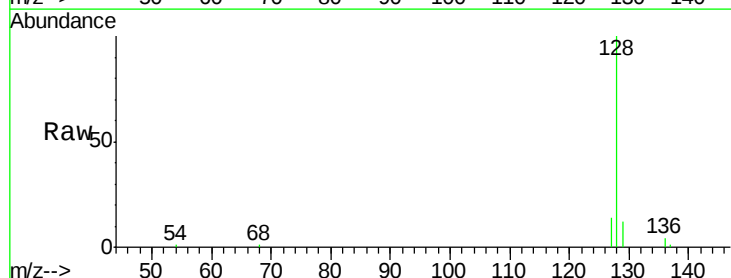
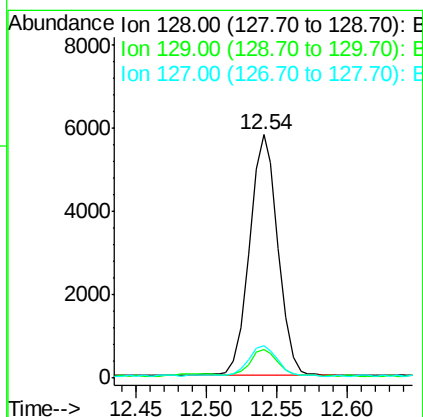
RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Tgt Ion:	128	Resp:	8021
Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	13.5	10.6	16.0





#5

2-Methylnaphthalene

Concen: 0.13 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089490.D

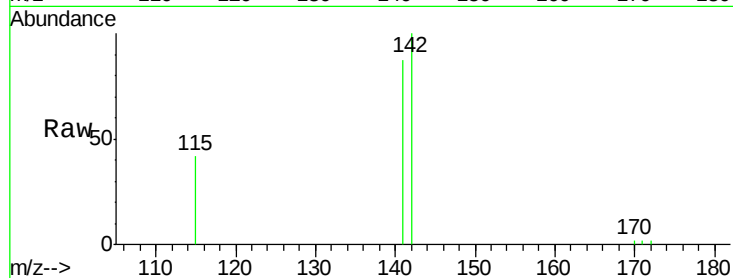
Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :

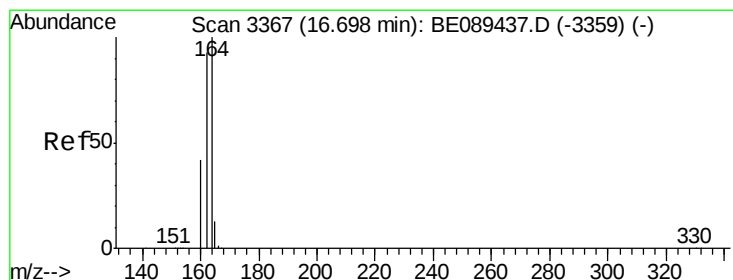
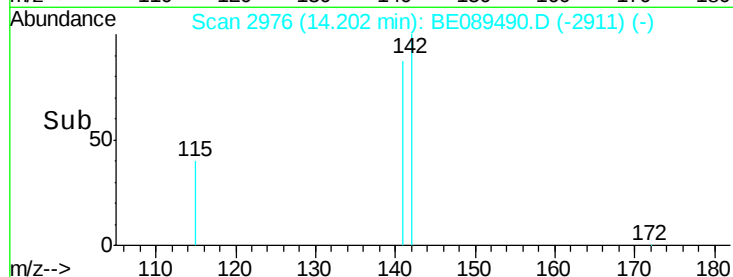
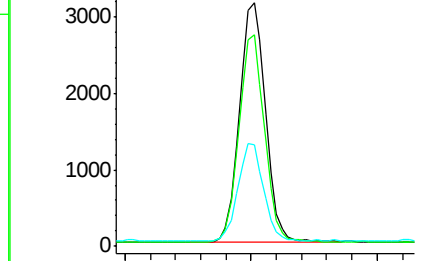
Tgt Ion:	142	Resp:	4512
Ion Ratio	Lower	Upper	
142	100		
141	87.0	66.1	99.1
115	41.5	29.9	44.9



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

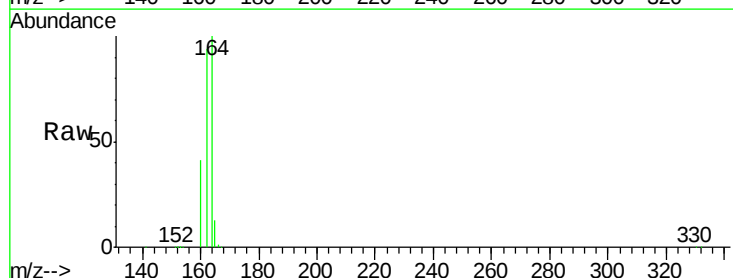
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

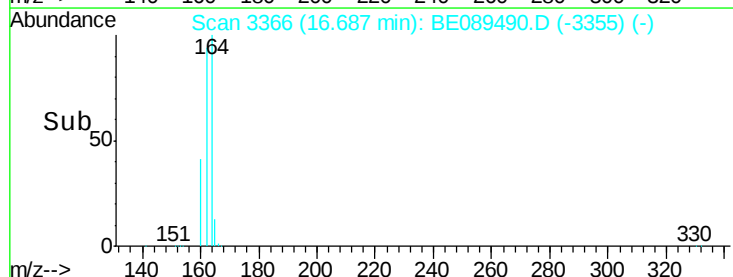
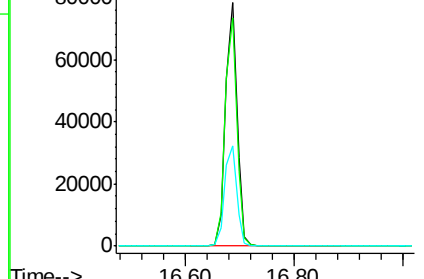
Tgt Ion:	164	Resp:	115798
Ion Ratio	Lower	Upper	
164	100		
162	93.9	74.7	112.1
160	41.2	33.4	50.0



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: 8.45 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :

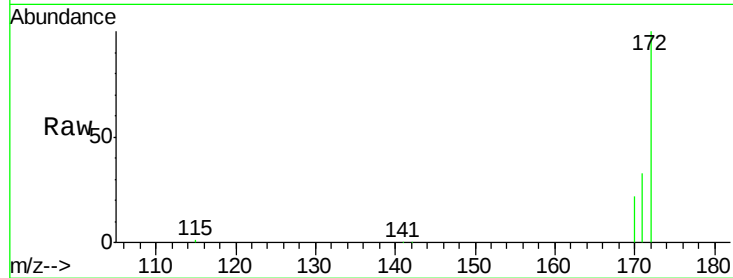
Tgt Ion:172 Resp: 257877

Ion Ratio Lower Upper

172 100

171 33.5 26.2 39.4

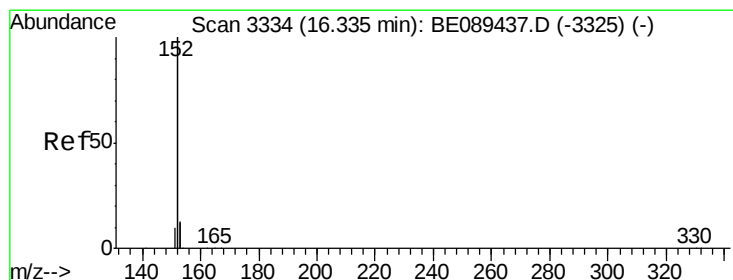
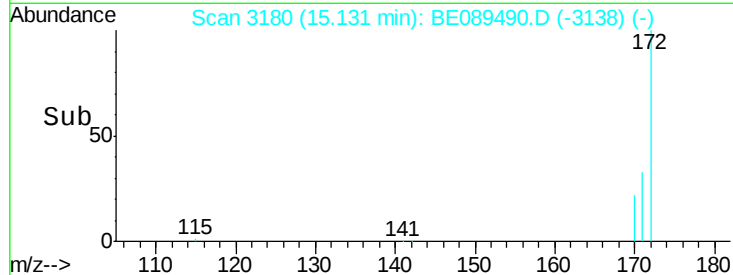
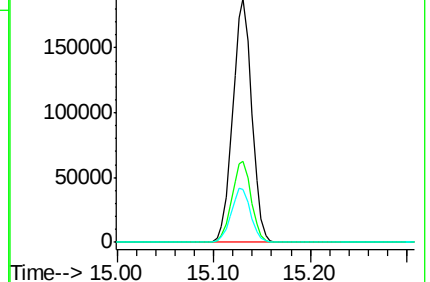
170 21.9 16.5 24.7



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: 0.11 ng

RT: 16.34 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

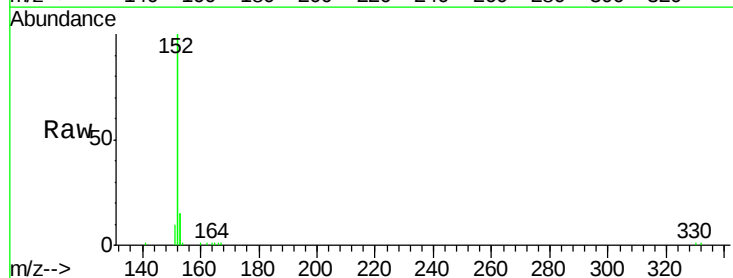
Tgt Ion:152 Resp: 23029

Ion Ratio Lower Upper

152 100

151 5.1 3.9 5.9

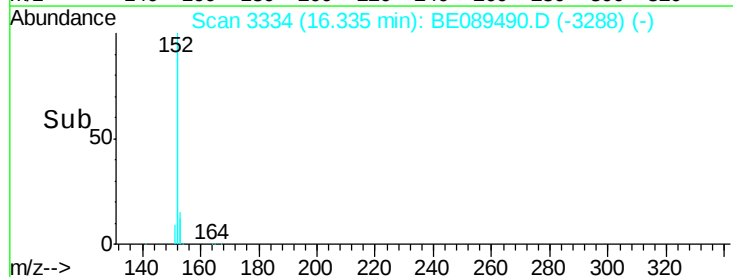
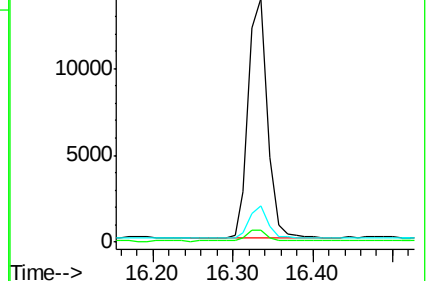
153 13.1 10.3 15.5



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: 0.13 ng

RT: 16.75 min Scan# 3372

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampled :

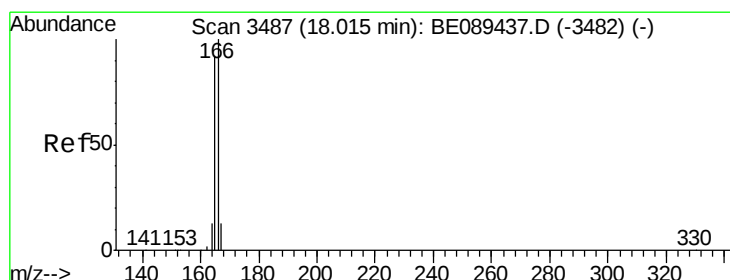
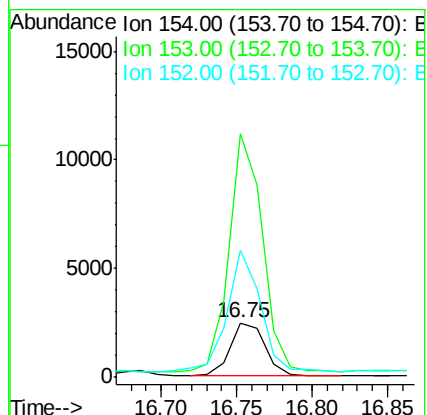
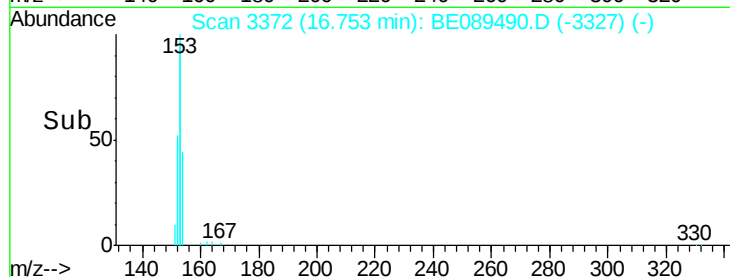
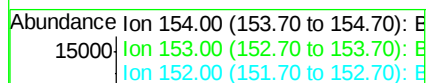
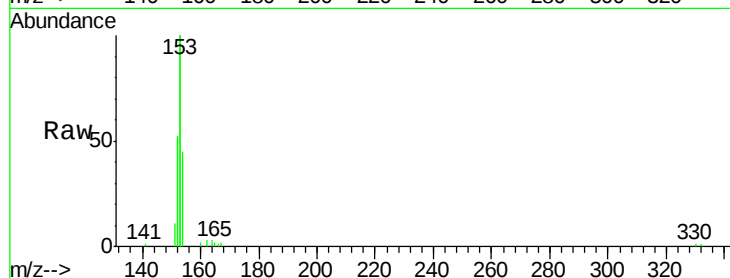
Tgt Ion:154 Resp: 3932

Ion Ratio Lower Upper

154 100

153 425.8 342.3 513.5

152 226.3 165.5 248.3



#10

Fluorene

Concen: 0.12 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

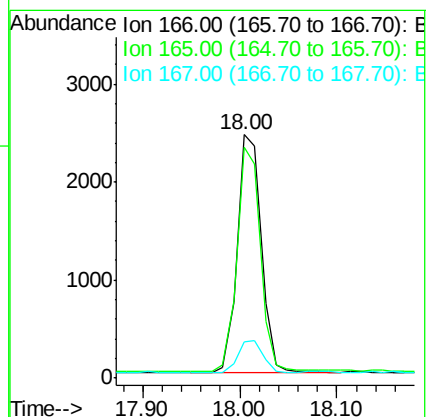
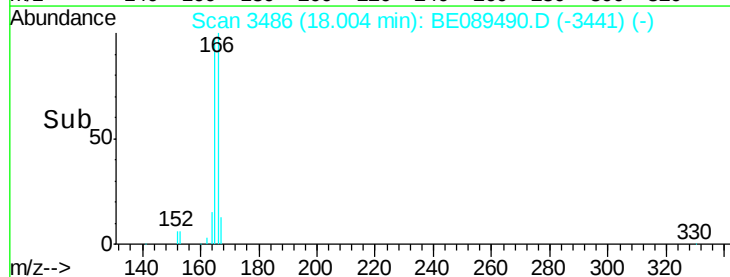
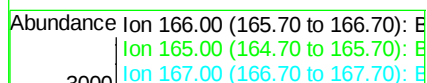
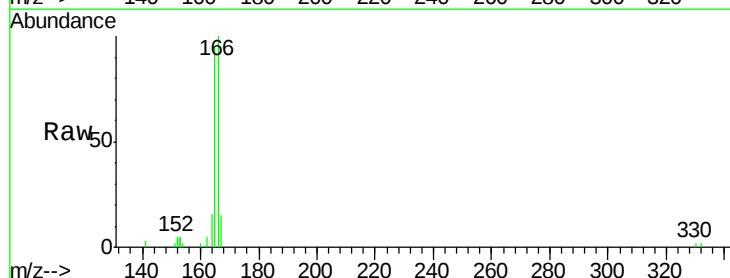
Tgt Ion:166 Resp: 4196

Ion Ratio Lower Upper

166 100

165 91.7 74.4 111.6

167 14.6 10.6 15.8

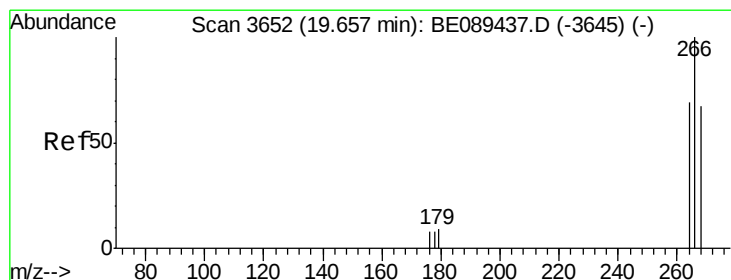
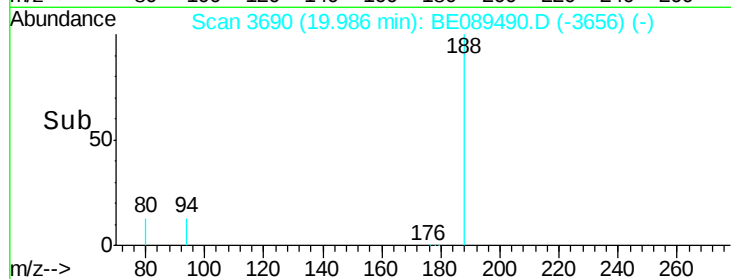
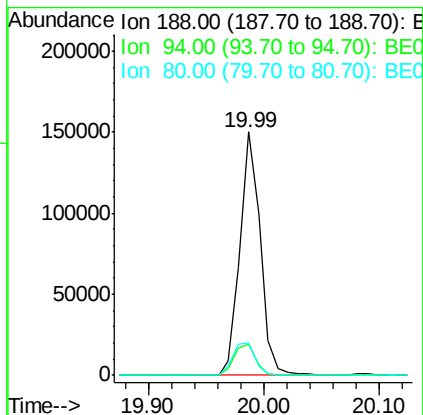
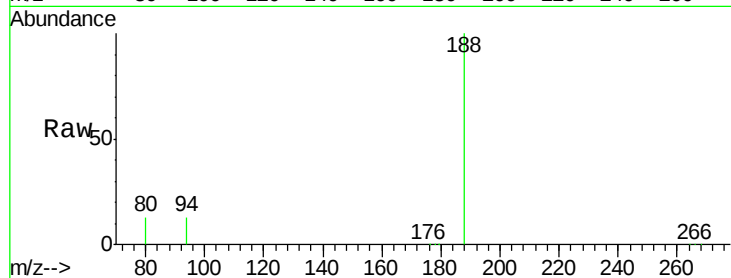




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089490.D
Acq: 1 Feb 2015 7:43

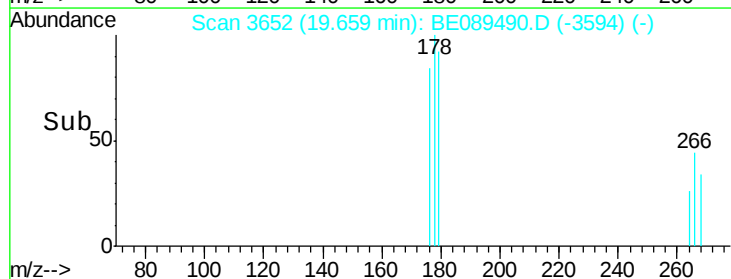
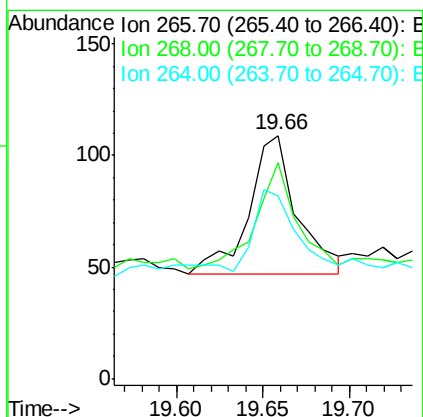
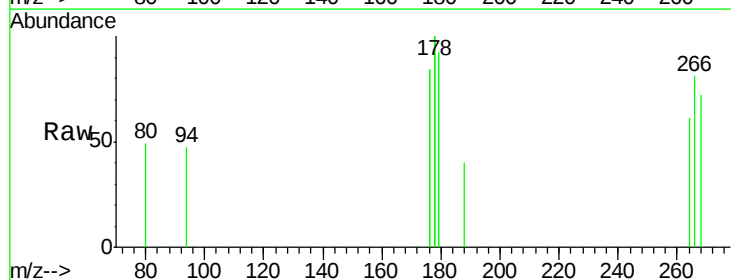
Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.8	9.4	14.0
80	13.3	9.3	13.9



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089490.D
Acq: 1 Feb 2015 7:43

Tgt Ion	Ratio	Lower	Upper
266	100		
268	89.0	54.2	81.4#
264	75.2	56.2	84.2





#13

Phenanthrene

Concen: 0.15 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :

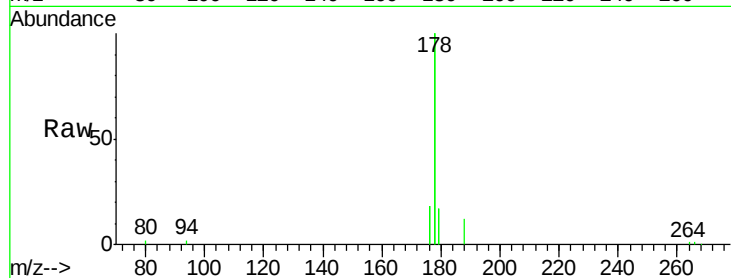
Tgt Ion:178 Resp: 26827

Ion Ratio Lower Upper

178 100

176 18.7 15.1 22.7

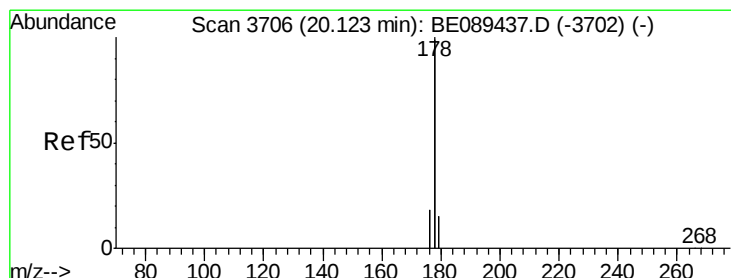
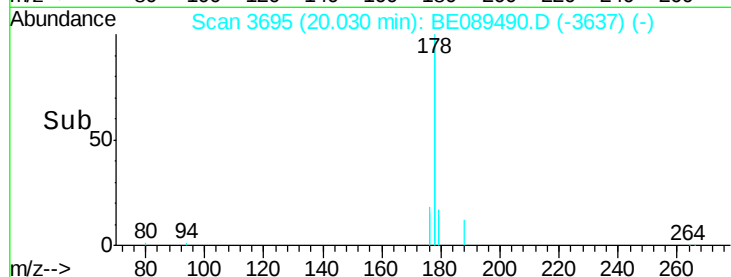
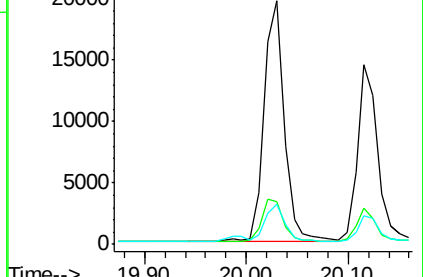
179 17.4 12.3 18.5



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



#14

Anthracene

Concen: 0.12 ng

RT: 20.12 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

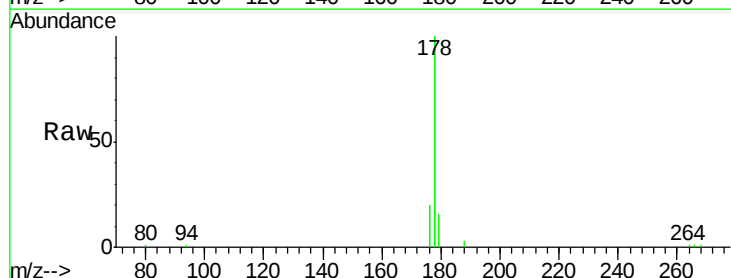
Tgt Ion:178 Resp: 20103

Ion Ratio Lower Upper

178 100

176 18.7 14.6 22.0

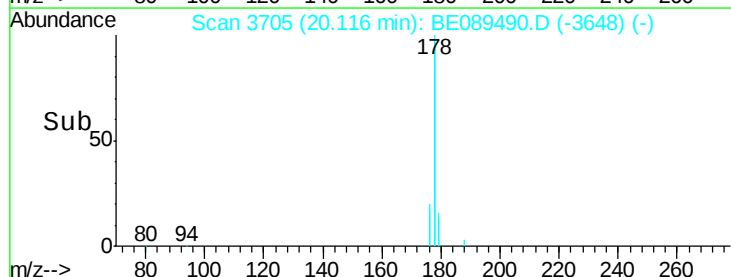
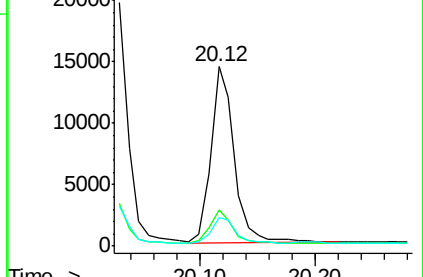
179 15.0 12.2 18.2

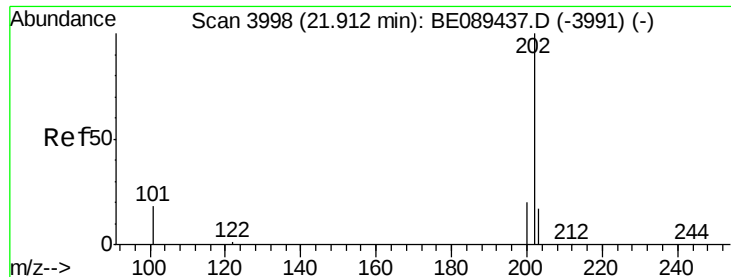


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.12 ng

RT: 21.91 min Scan# 3997

Delta R.T. 0.00 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :

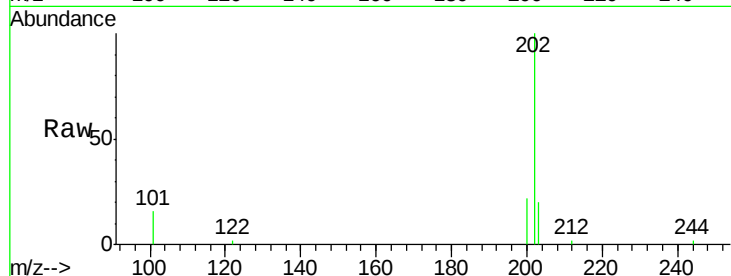
Tgt Ion:202 Resp: 4560

Ion Ratio Lower Upper

202 100

101 15.9 13.6 20.4

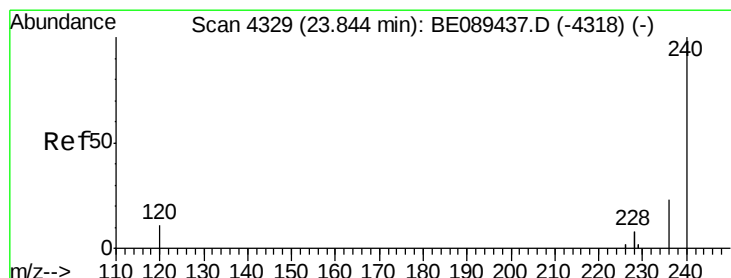
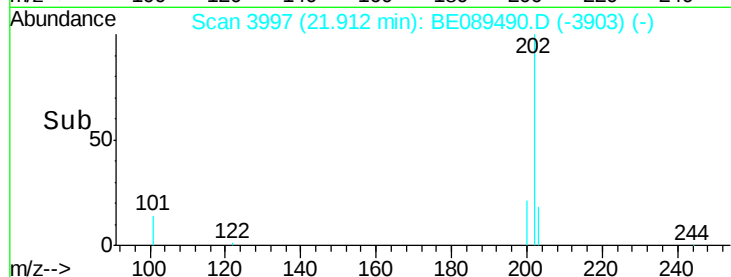
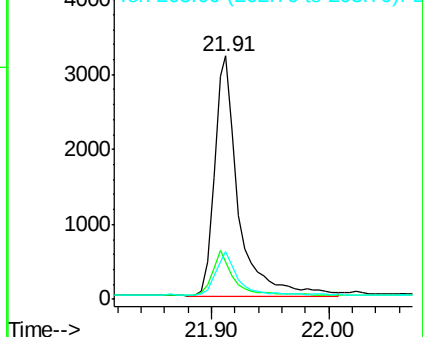
203 17.2 13.8 20.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.84 min Scan# 4327

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

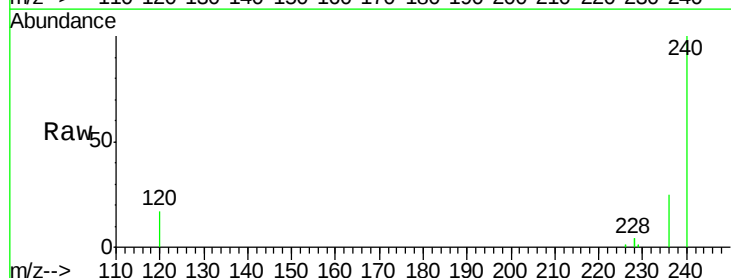
Tgt Ion:240 Resp: 144542

Ion Ratio Lower Upper

240 100

120 16.9 8.6 13.0#

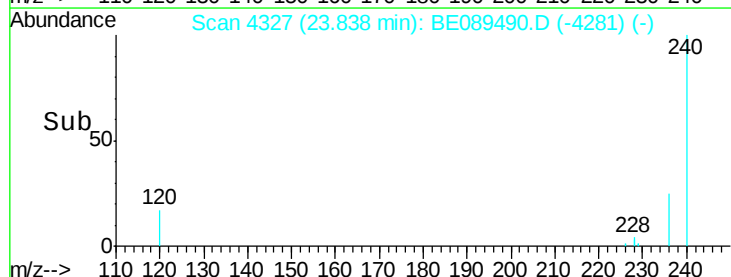
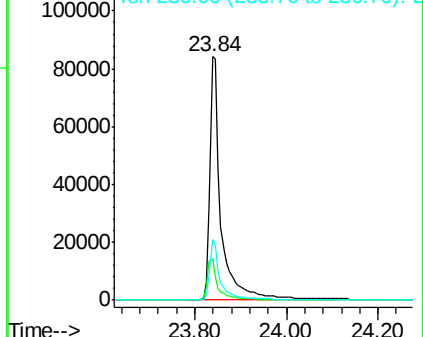
236 24.9 18.7 28.1



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

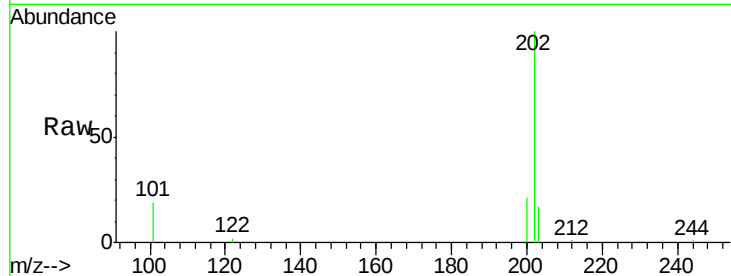




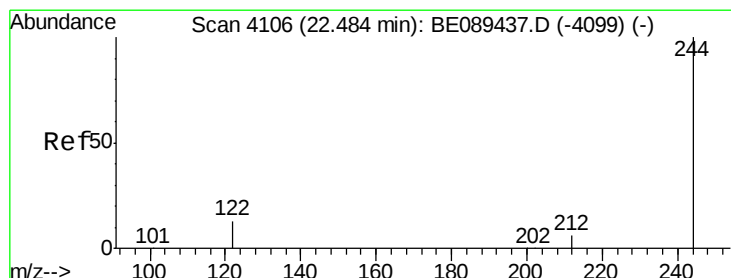
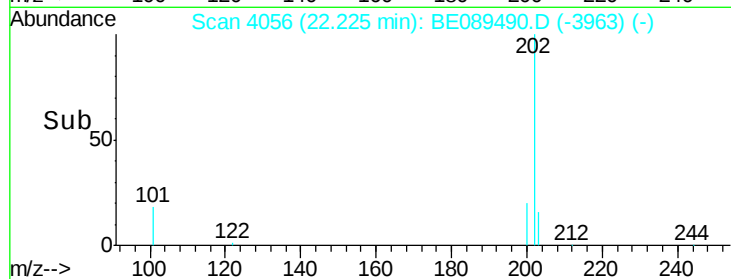
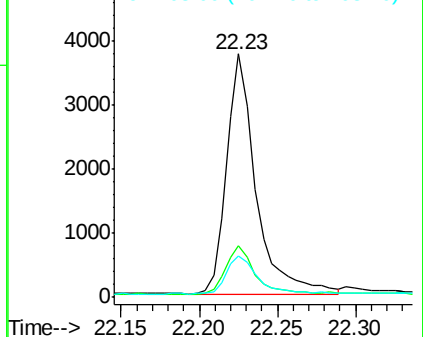
#17
 Pyrene
 Concen: 0.13 ng
 RT: 22.23 min Scan# 4056
 Delta R.T. -0.00 min
 Lab File: BE089490.D
 Acq: 1 Feb 2015 7:43

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 4895
 Ion Ratio Lower Upper
 202 100
 200 19.8 16.2 24.4
 203 17.3 13.8 20.8

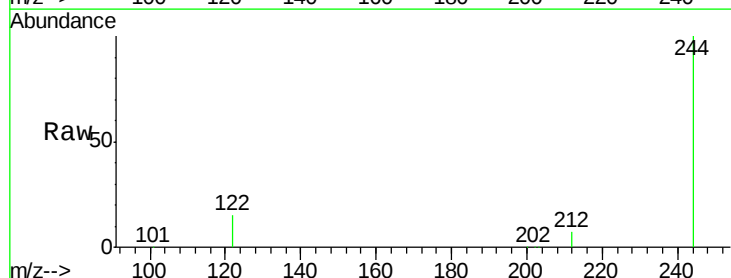


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

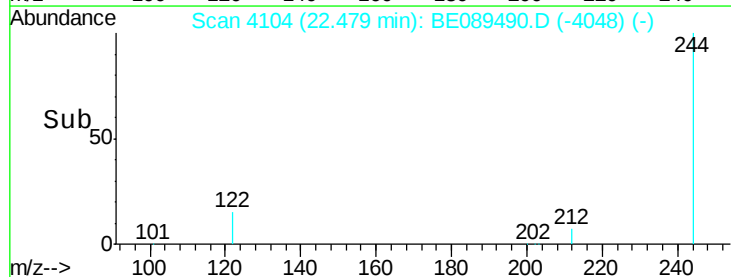
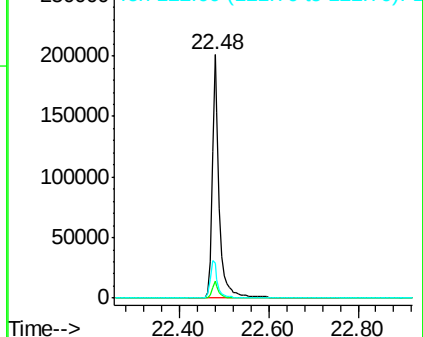


#18
 Terphenyl-d14
 Concen: 10.40 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.00 min
 Lab File: BE089490.D
 Acq: 1 Feb 2015 7:43

Tgt Ion: 244 Resp: 225159
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.0 7.6
 122 14.5 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: 0.09 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :

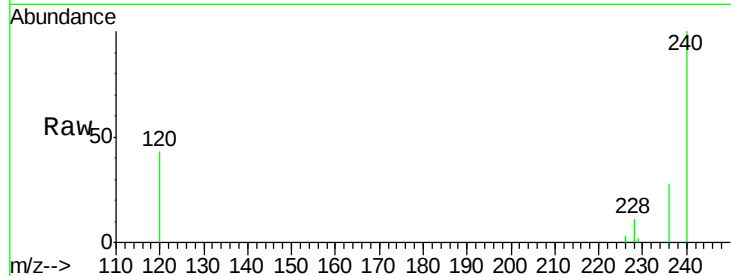
Tgt Ion:228 Resp: 11432

Ion Ratio Lower Upper

228 100

226 28.1 20.0 30.0

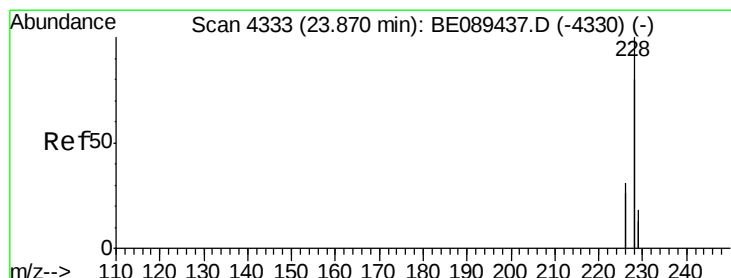
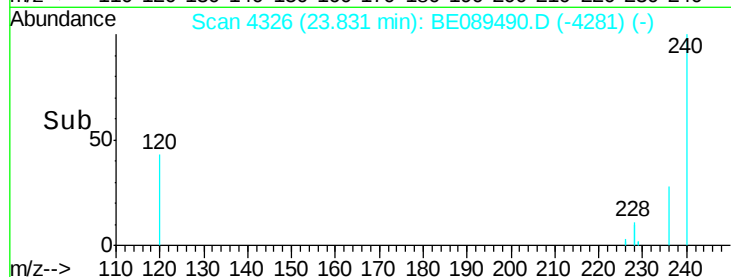
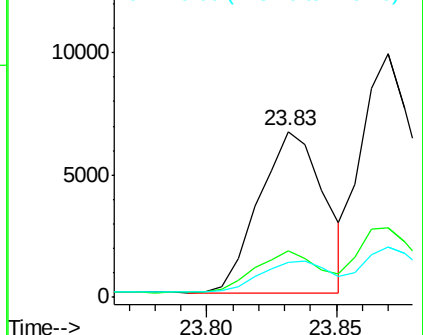
229 21.1 16.0 24.0



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: 0.17 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

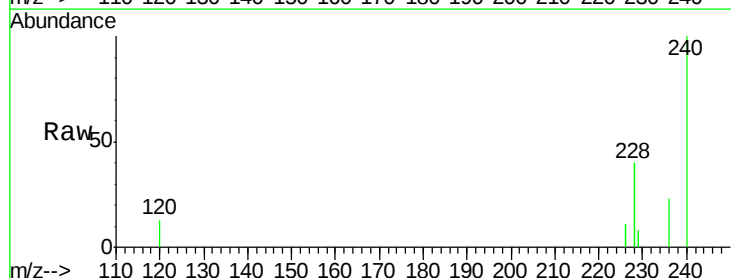
Tgt Ion:228 Resp: 22859

Ion Ratio Lower Upper

228 100

226 28.3 24.5 36.7

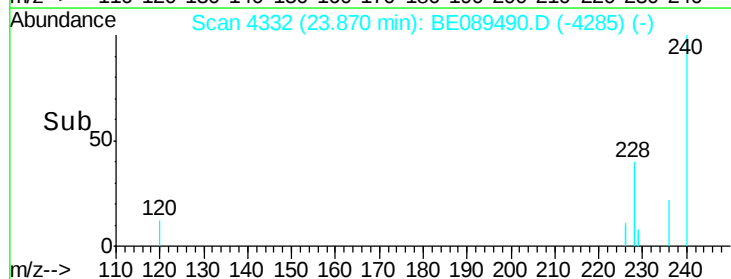
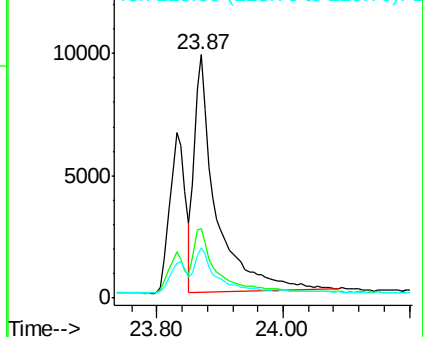
229 20.5 14.1 21.1

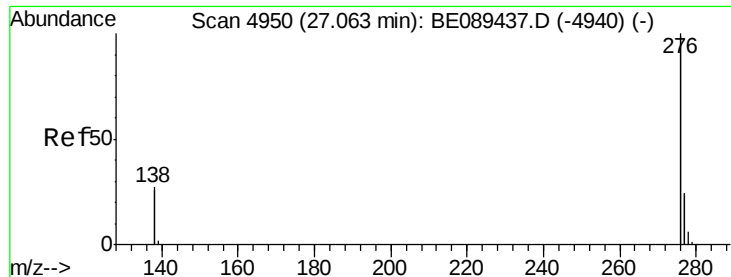


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

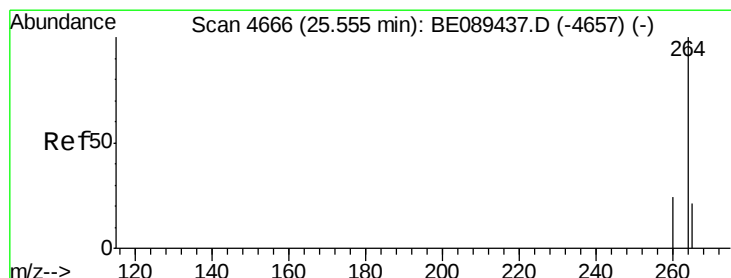
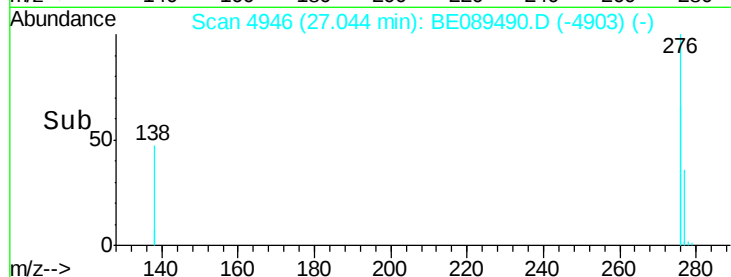
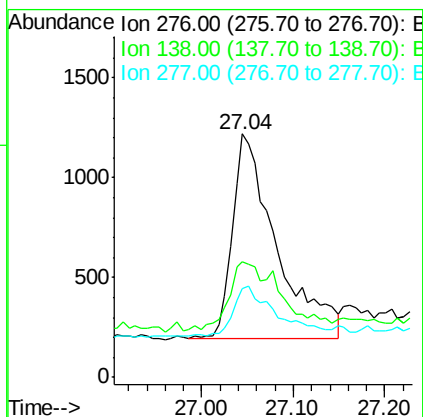
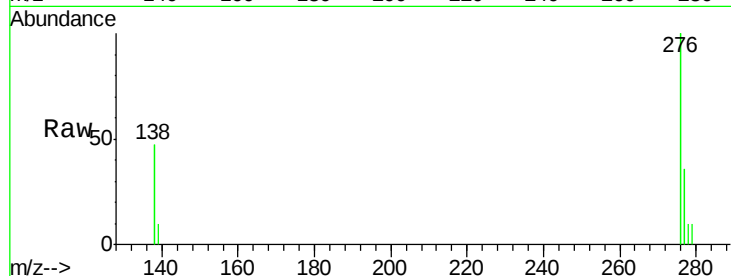




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.03 ng
 RT: 27.04 min Scan# 4946
 Delta R.T. -0.02 min
 Lab File: BE089490.D
 Acq: 1 Feb 2015 7:43

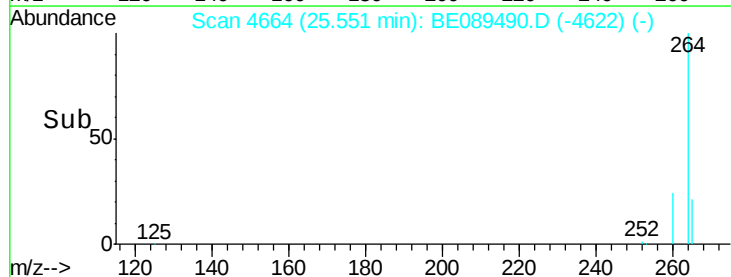
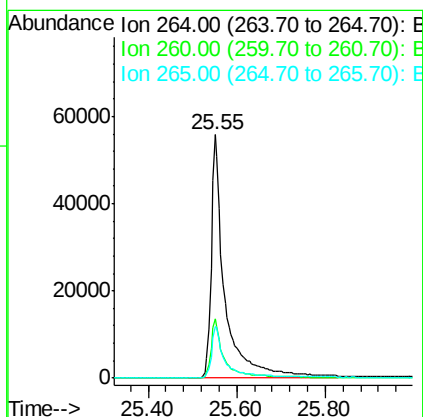
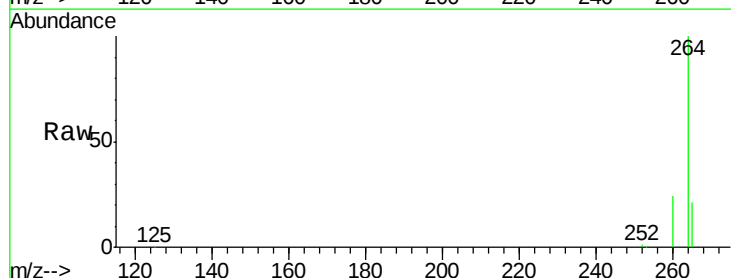
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 3417
 Ion Ratio Lower Upper
 276 100
 138 38.7 25.4 38.0#
 277 24.7 19.8 29.6



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.55 min Scan# 4664
 Delta R.T. -0.00 min
 Lab File: BE089490.D
 Acq: 1 Feb 2015 7:43

Tgt Ion: 264 Resp: 121063
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.4 29.0
 265 21.2 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.23 ng

RT: 25.09 min Scan# 4563

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :

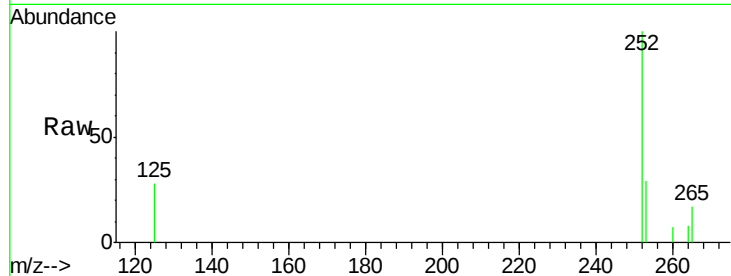
Tgt Ion:252 Resp: 874

Ion Ratio Lower Upper

252 100

253 28.9 17.0 25.6#

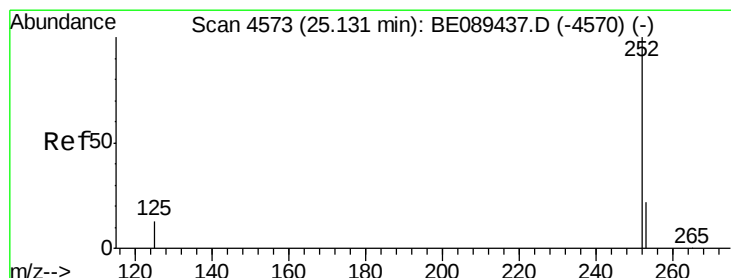
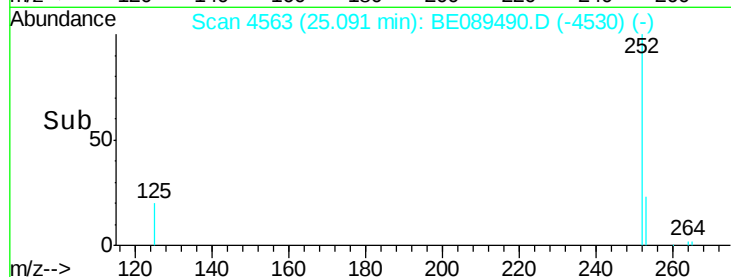
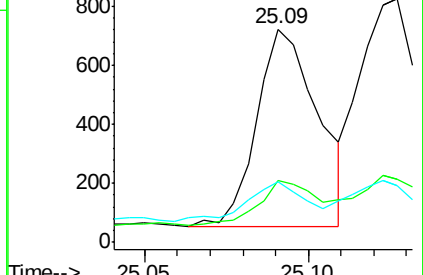
125 28.2 11.4 17.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

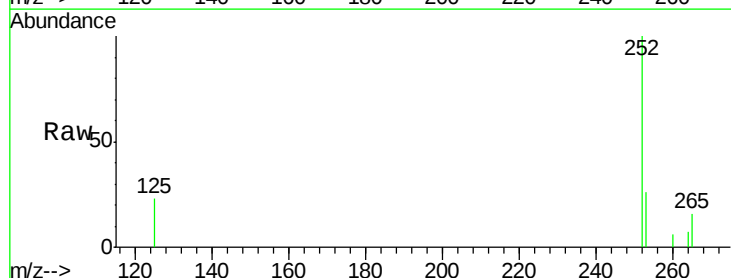
Tgt Ion:252 Resp: 1551

Ion Ratio Lower Upper

252 100

253 26.0 17.4 26.2

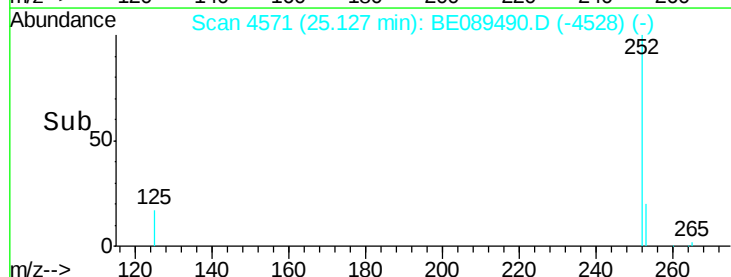
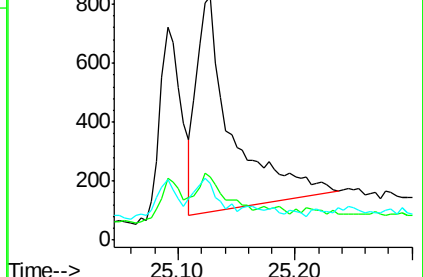
125 23.1 10.9 16.3#



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

Benzo(a)pyrene

Concen: 0.16 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.01 min

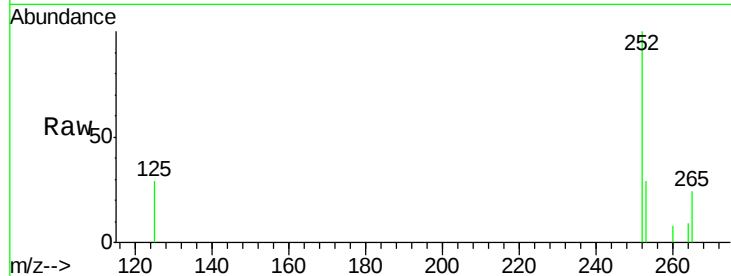
Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :



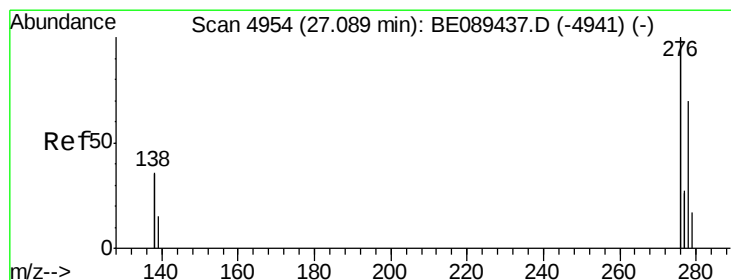
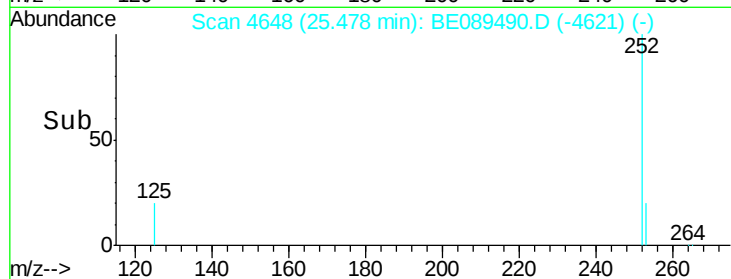
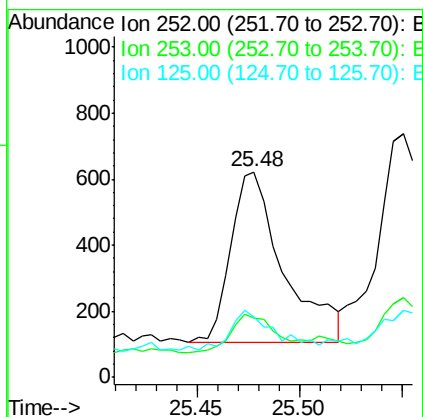
Tgt Ion: 252 Resp: 921

Ion Ratio Lower Upper

252 100

253 28.7 17.3 25.9#

125 29.4 12.0 18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.15 ng

RT: 27.08 min Scan# 4951

Delta R.T. -0.01 min

Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

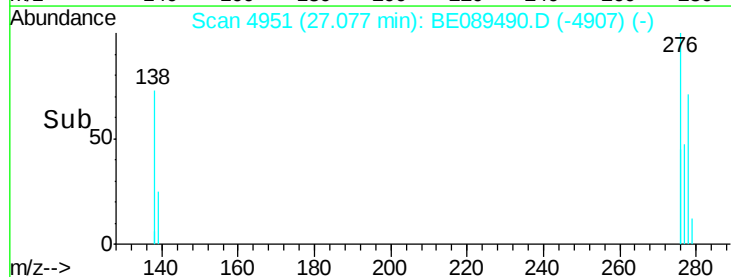
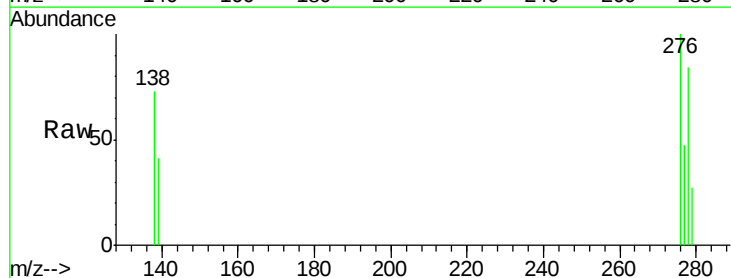
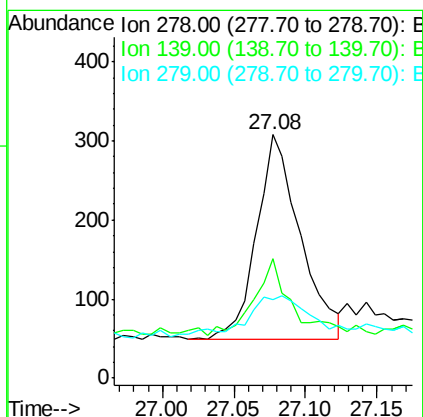
Tgt Ion: 278 Resp: 545

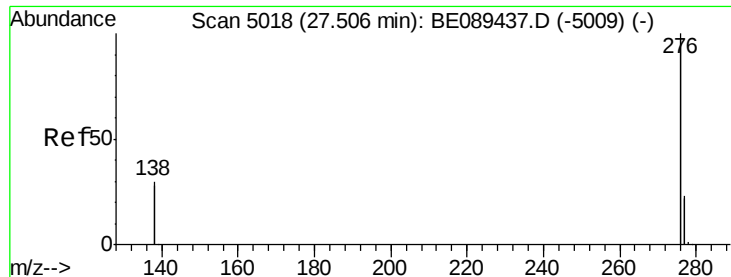
Ion Ratio Lower Upper

278 100

139 49.0 17.0 25.4#

279 32.1 19.1 28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 27.49 min Scan# 5015

Delta R.T. -0.01 min

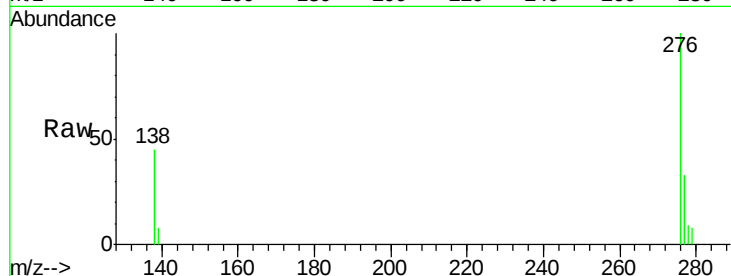
Lab File: BE089490.D

Acq: 1 Feb 2015 7:43

Instrument :

BNA_E

ClientSampleId :



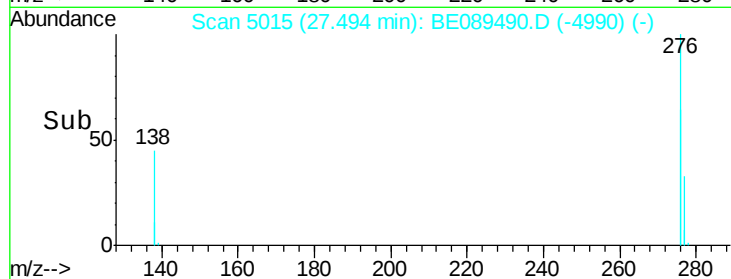
Tgt Ion: 276 Resp: 5311

Ion Ratio Lower Upper

276 100

277 33.0 18.4 27.6#

138 44.8 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

