

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089471.D
 Acq On : 31 Jan 2015 14:51
 Operator : TP/IZ
 Sample : DFTPP
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 02:47:04 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	188	5.00	ng	0.00
2) Naphthalene-d8	12.48	136	478	5.00	ng	-0.02
6) Acenaphthene-d10	16.66	164	163	5.00	ng	-0.04
11) Phenanthrene-d10	19.95	188	124	5.00	ng	-0.04
16) Chrysene-d12	23.77	240	85	5.00	ng	-0.07
22) Perylene-d12	25.48	264	79	5.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	10.81	82	402	12.70	ng	-0.04
7) 2-Fluorobiphenyl	15.10	172	133	3.10	ng	-0.04
18) Terphenyl-d14	22.44	244	231	18.15	ng	-0.05

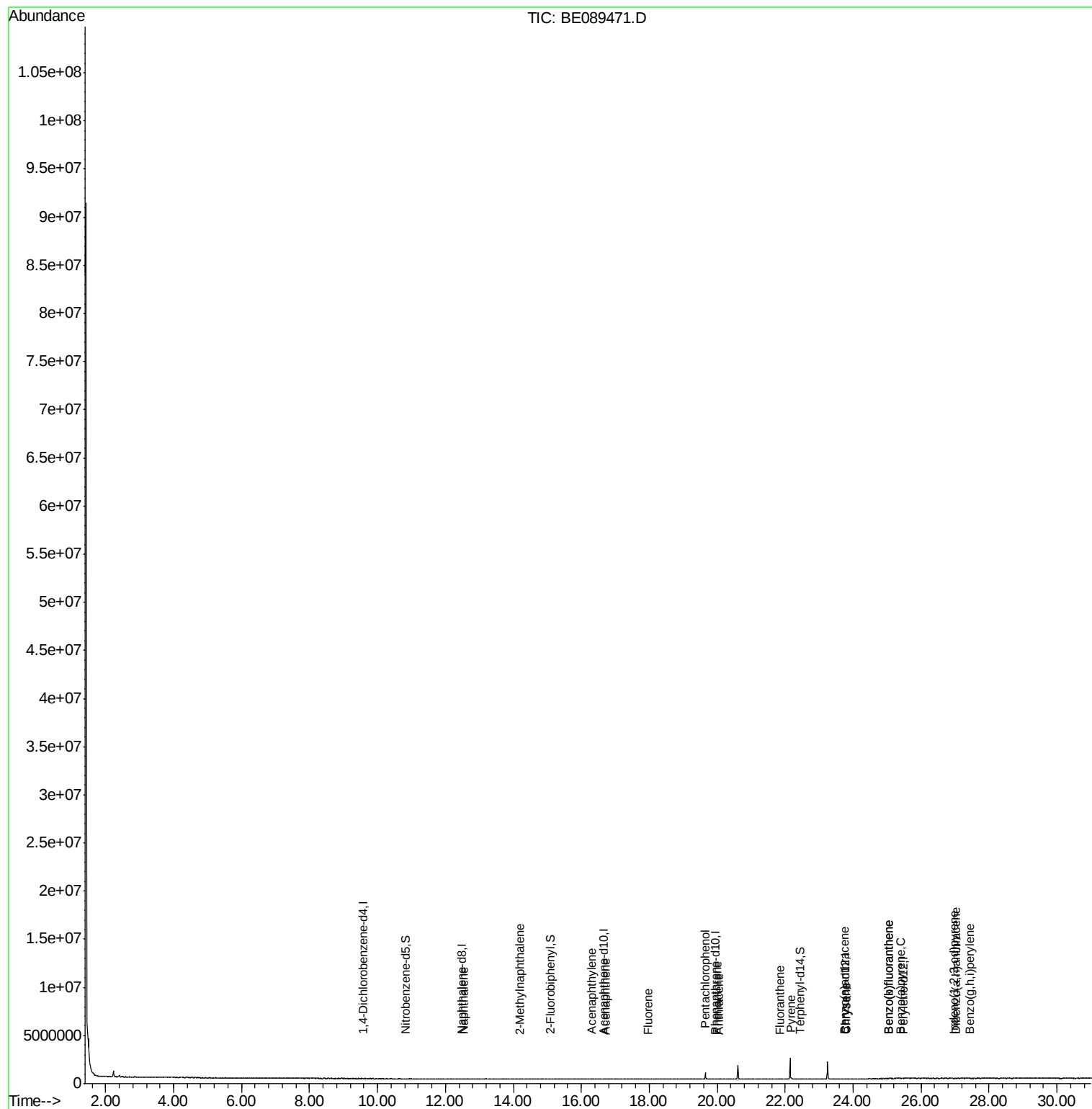
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	12.53	128	26	0.23	ng	# 1
5) 2-Methylnaphthalene	14.18	142	189	2.79	ng	# 19
8) Acenaphthylene	16.30	152	85	0.29	ng	# 1
9) Acenaphthene	16.72	154	155	3.52	ng	# 5
10) Fluorene	17.97	166	34	0.69	ng	# 92
12) Pentachlorophenol	19.65	266	80236	860.46	ng	# 98
13) Phenanthrene	19.99	178	84	0.69	ng	# 48
14) Anthracene	20.06	178	80	0.72	ng	# 3
15) Fluoranthene	21.85	202	73	2.74	ng	# 1
17) Pyrene	22.17	202	183	8.12	ng	# 43
19) Benzo(a)anthracene	23.75	228	47	0.66	ng	# 1
20) Chrysene	23.81	228	252	3.12	ng	# 55
21) Indeno(1,2,3-cd)pyrene	26.98	276	30	0.43	ng	# 1
23) Benzo(b)fluoranthene	25.05	252	110	7.72	ng	# 30
24) Benzo(k)fluoranthene	25.05	252	110	5.47	ng	# 29
25) Benzo(a)pyrene	25.41	252	74	5.18	ng	# 1
26) Dibenzo(a,h)anthracene	27.01	278	99	6.08	ng	# 1
27) Benzo(g,h,i)perylene	27.45	276	22	0.35	ng	# 1

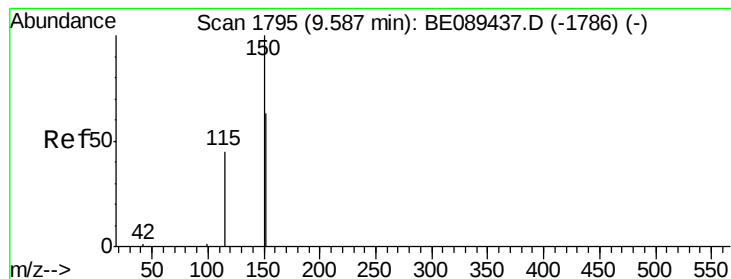
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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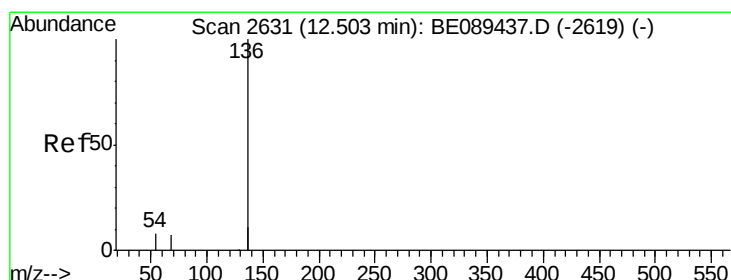
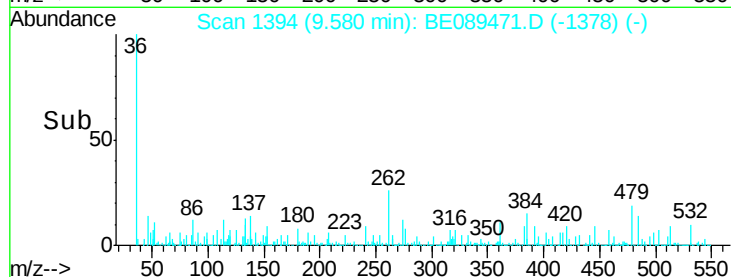
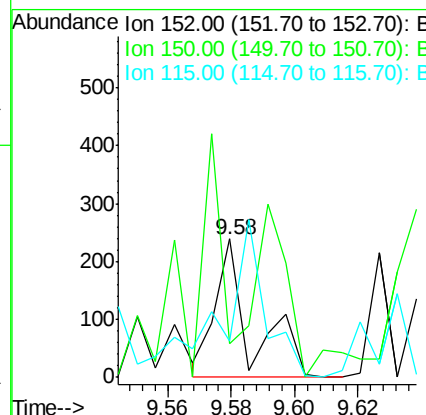
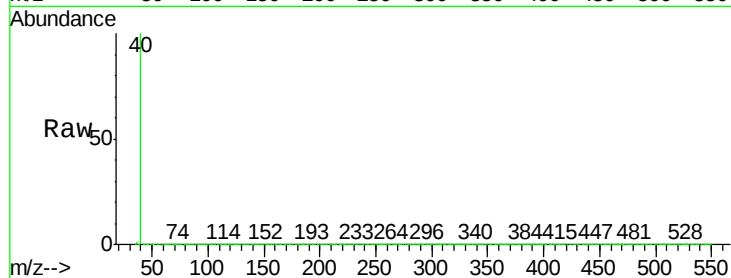




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 9.58 min Scan# 1394
 Delta R.T. -0.01 min
 Lab File: BE089471.D
 Acq: 31 Jan 2015 14:51

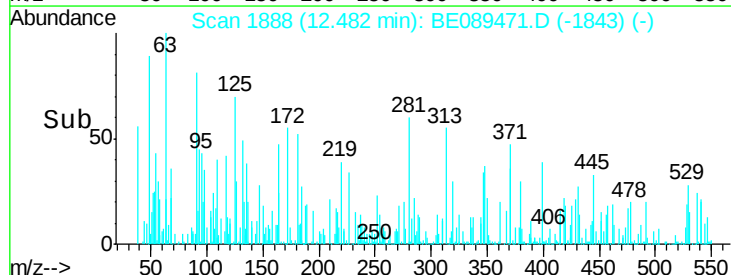
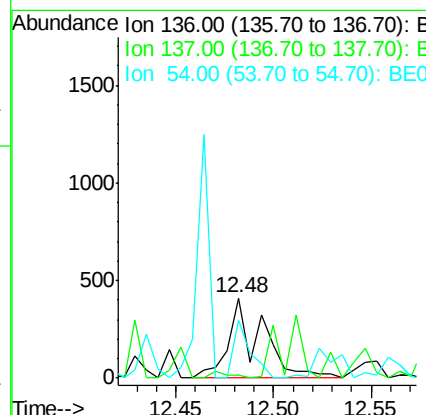
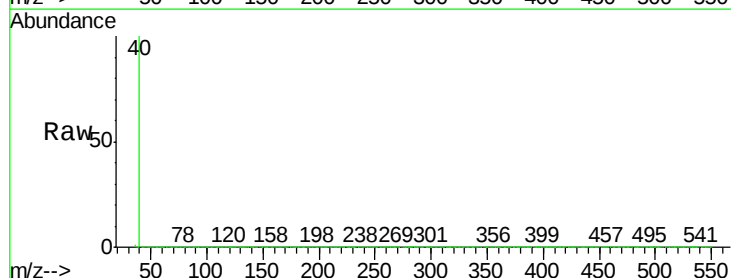
Instrument :
 BNA_E
 ClientSampleId :

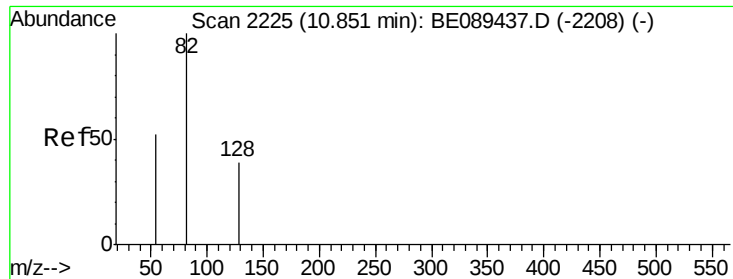
Tgt Ion:152 Resp: 188
 Ion Ratio Lower Upper
 152 100
 150 24.3 127.2 190.8#
 115 25.9 57.5 86.3#



#2
 Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.48 min Scan# 1888
 Delta R.T. -0.02 min
 Lab File: BE089471.D
 Acq: 31 Jan 2015 14:51

Tgt Ion:136 Resp: 478
 Ion Ratio Lower Upper
 136 100
 137 3.7 8.7 13.1#
 54 72.9 6.6 10.0#





#3

Nitrobenzene-d5

Concen: 12.70 ng

RT: 10.81 min Scan# 1603

Delta R.T. -0.04 min

Lab File: BE089471.D

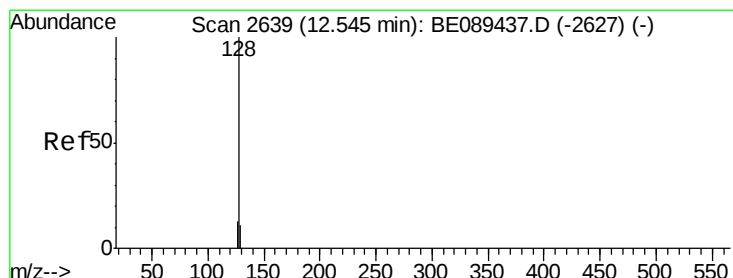
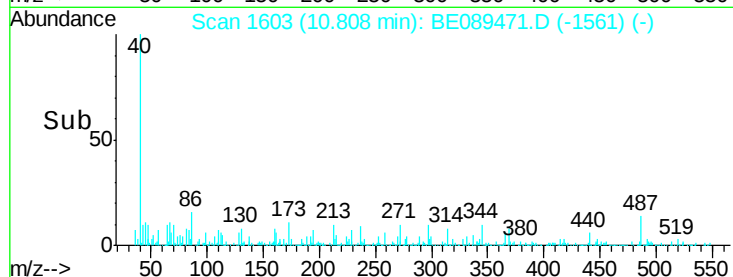
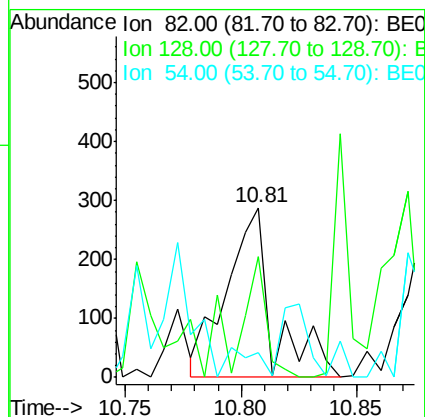
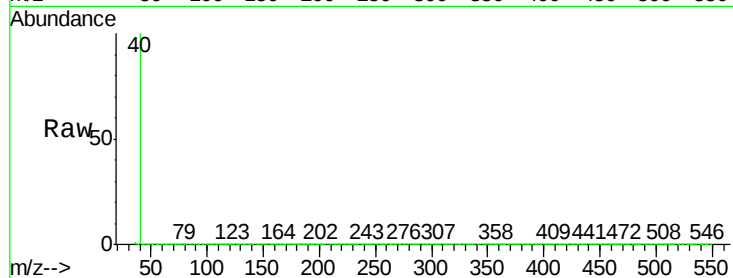
Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampled :

Tgt Ion:	82	Resp:	402
Ion Ratio	Lower	Upper	
82	100		
128	71.2	31.2	46.8#
54	14.9	41.9	62.9#



#4

Naphthalene

Concen: 0.23 ng

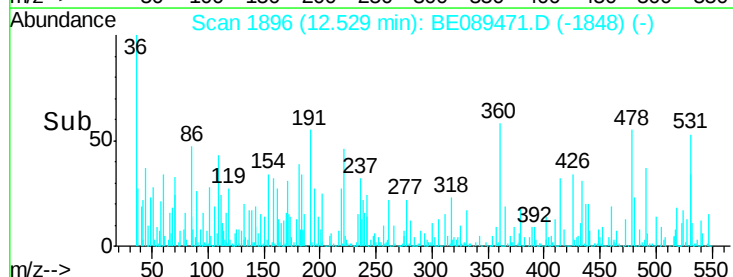
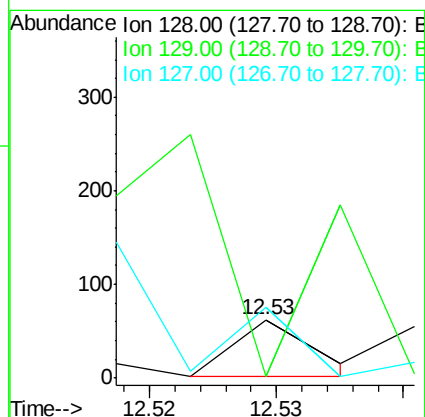
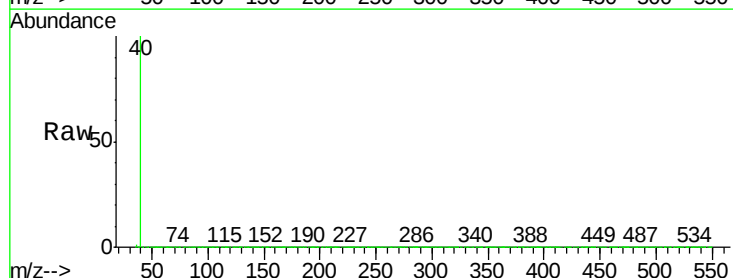
RT: 12.53 min Scan# 1896

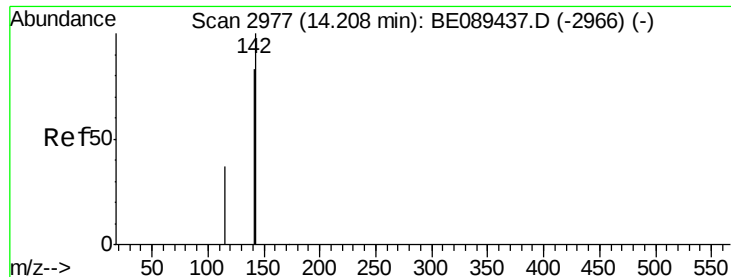
Delta R.T. -0.02 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Tgt Ion:	128	Resp:	26
Ion Ratio	Lower	Upper	
128	100		
129	12.7	8.8	13.2
127	217.5	10.6	16.0#





#5

2-Methylnaphthalene

Concen: 2.79 ng

RT: 14.18 min Scan# 2177

Delta R.T. -0.03 min

Lab File: BE089471.D

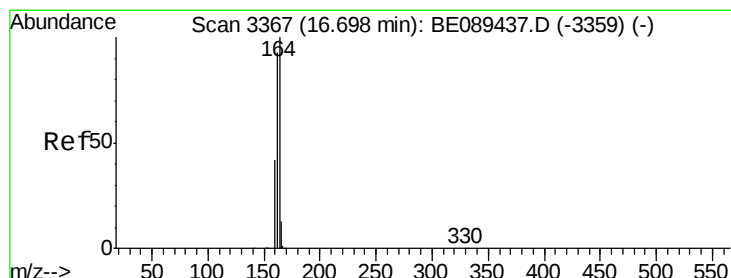
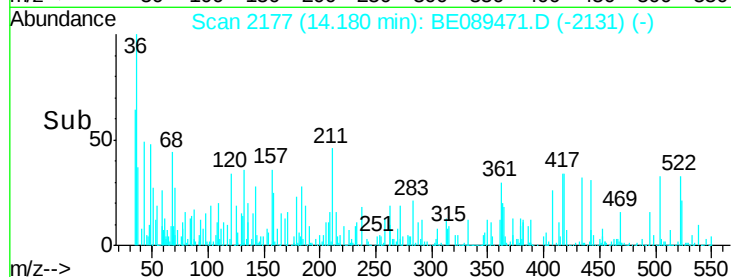
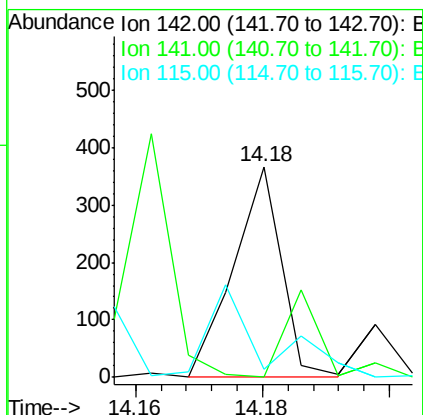
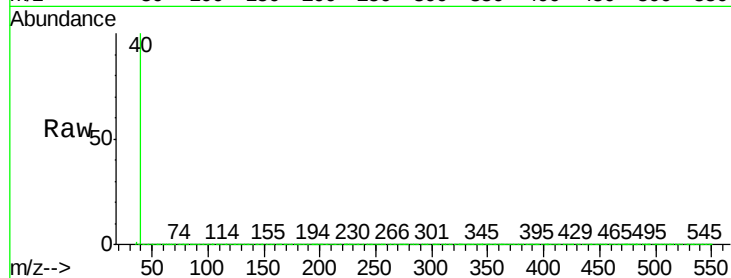
Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampled :

Tgt Ion:	142	Resp:	189
Ion Ratio	Lower	Upper	
142	100		
141	0.0	66.1	99.1#
115	4.1	29.9	44.9#



#6

Acenaphthene-d10

Concen: 5.00 ng

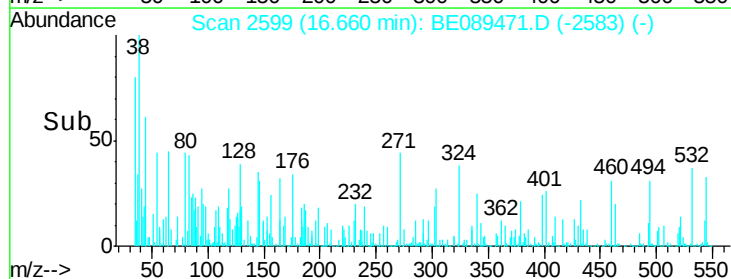
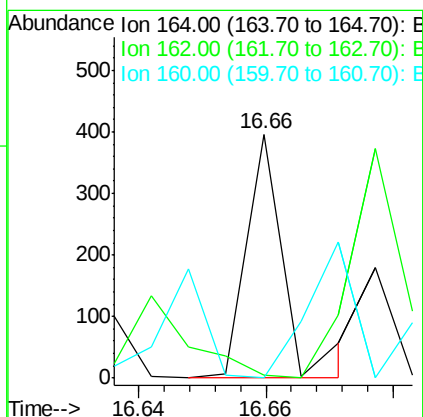
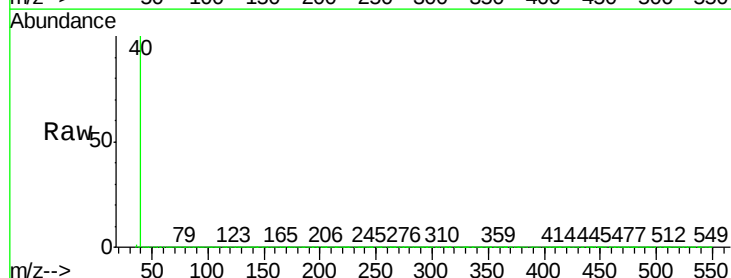
RT: 16.66 min Scan# 2599

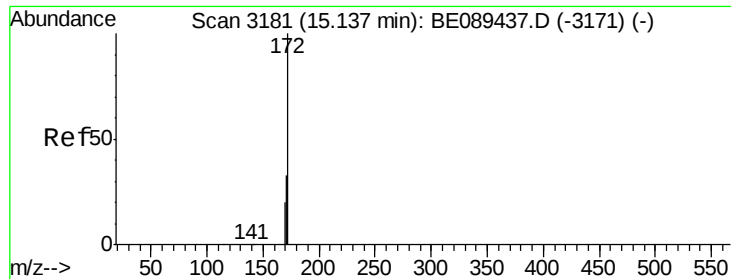
Delta R.T. -0.04 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Tgt Ion:	164	Resp:	163
Ion Ratio	Lower	Upper	
164	100		
162	1.0	74.7	112.1#
160	2.8	33.4	50.0#





#7

2-Fluorobiphenyl

Concen: 3.10 ng

RT: 15.10 min Scan# 2333

Delta R.T. -0.04 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampleId :

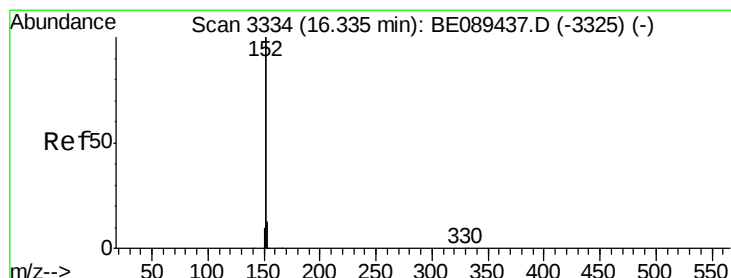
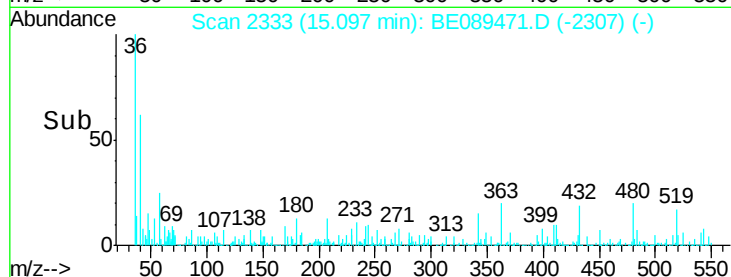
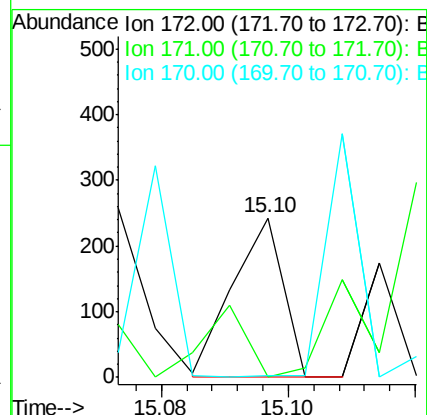
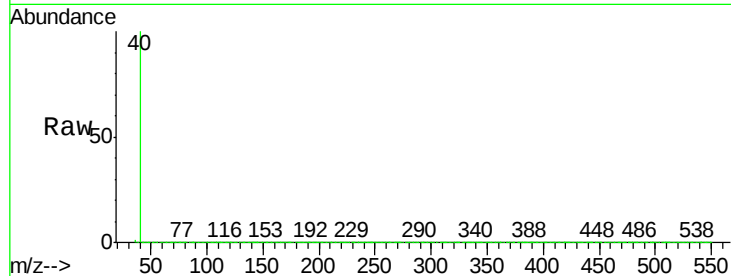
Tgt Ion:172 Resp: 133

Ion Ratio Lower Upper

172 100

171 25.9 26.2 39.4#

170 1.2 16.5 24.7#



#8

Acenaphthylene

Concen: 0.29 ng

RT: 16.30 min Scan# 2537

Delta R.T. -0.04 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

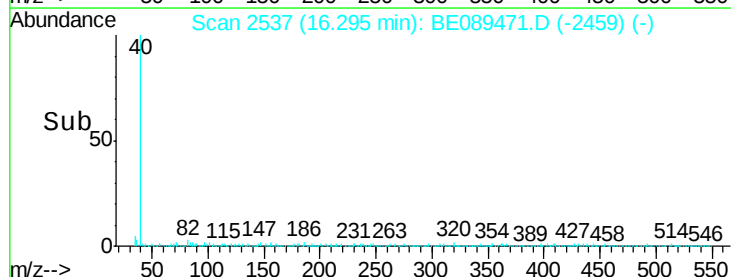
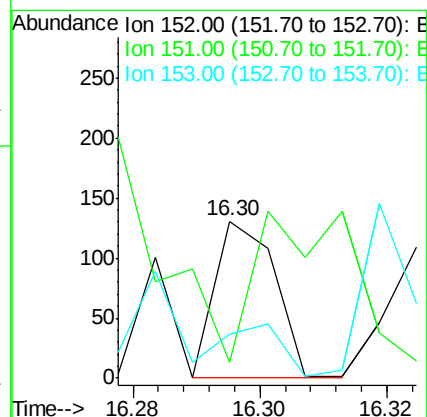
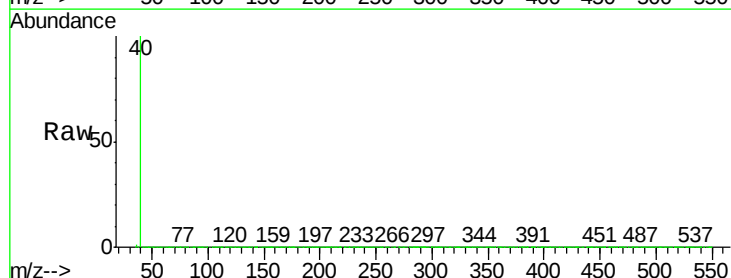
Tgt Ion:152 Resp: 85

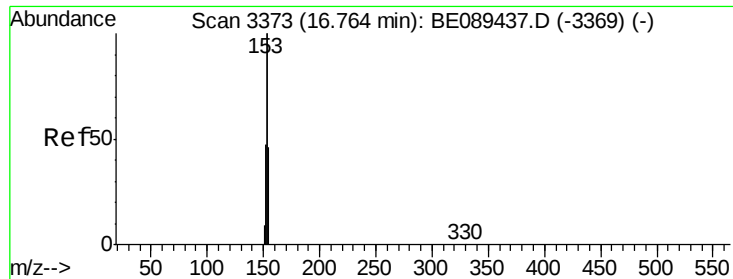
Ion Ratio Lower Upper

152 100

151 191.8 3.9 5.9#

153 81.2 10.3 15.5#





#9

Acenaphthene

Concen: 3.52 ng

RT: 16.72 min Scan# 2610

Delta R.T. -0.04 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampleId :

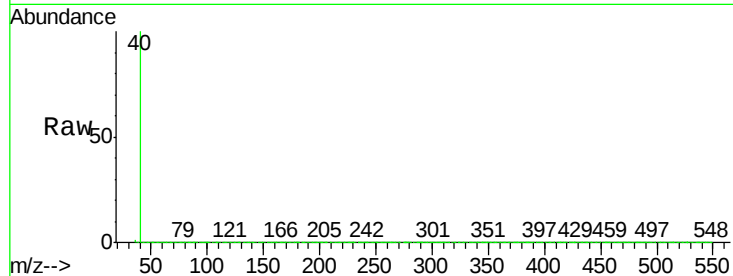
Tgt Ion:154 Resp: 155

Ion Ratio Lower Upper

154 100

153 81.3 342.3 513.5#

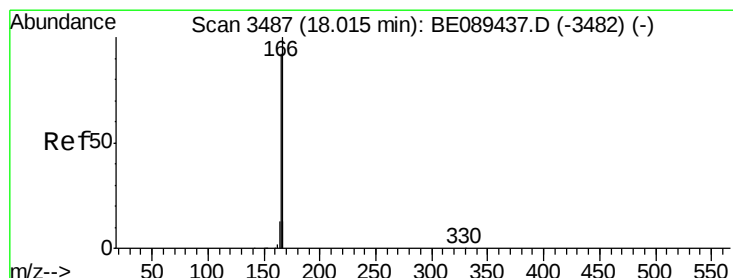
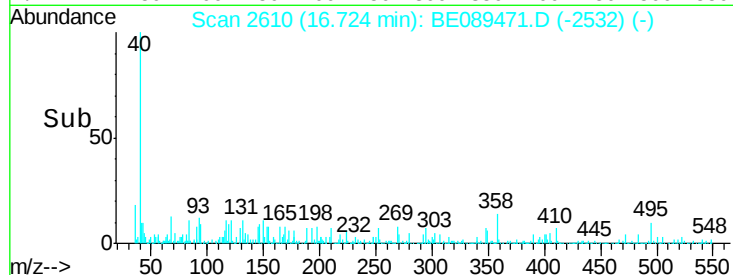
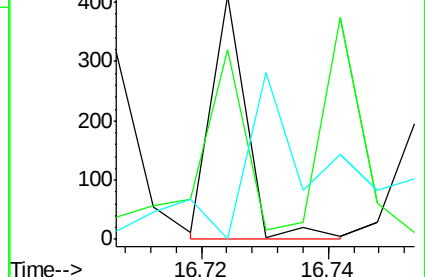
152 212.9 165.5 248.3



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: 0.69 ng

RT: 17.97 min Scan# 2822

Delta R.T. -0.05 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

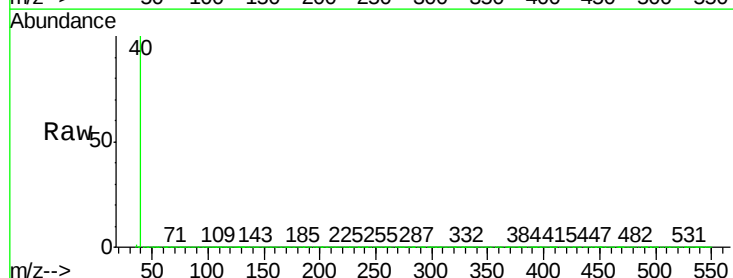
Tgt Ion:166 Resp: 34

Ion Ratio Lower Upper

166 100

165 97.1 74.4 111.6

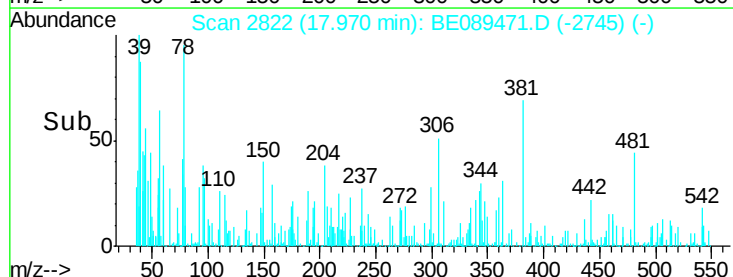
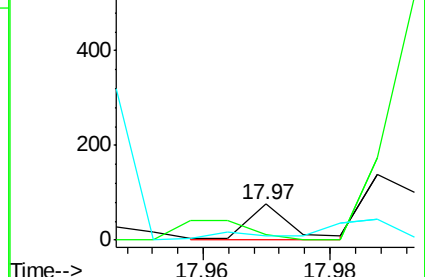
167 0.0 10.6 15.8#

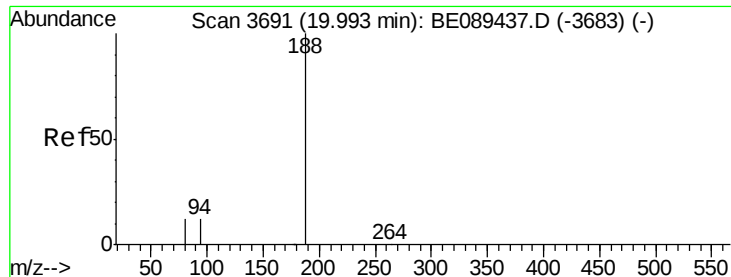


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

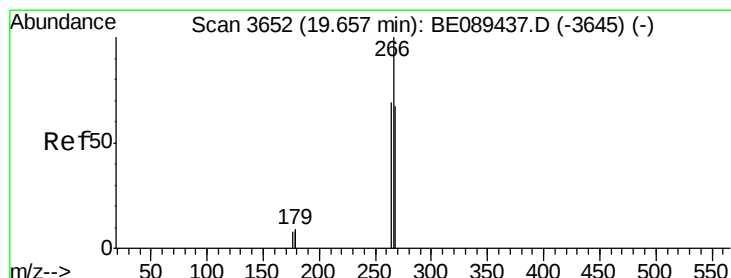
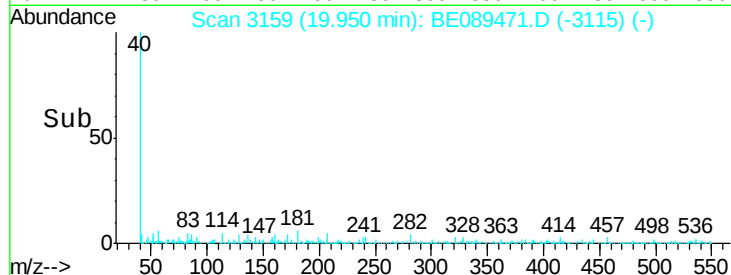
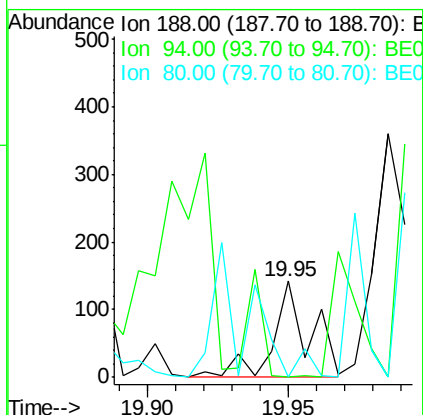
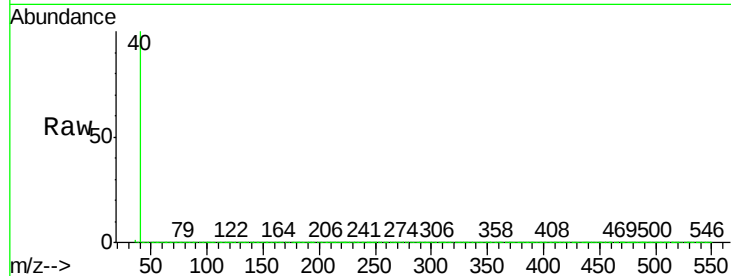




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.95 min Scan# 3159
Delta R.T. -0.04 min
Lab File: BE089471.D
Acq: 31 Jan 2015 14:51

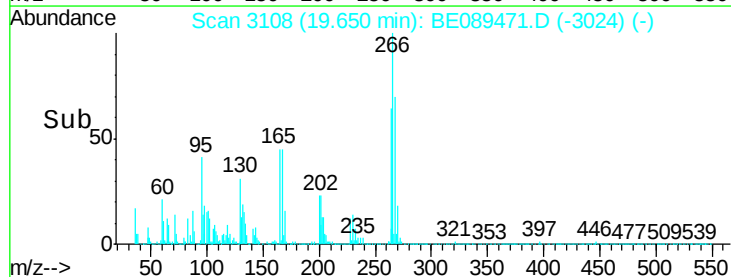
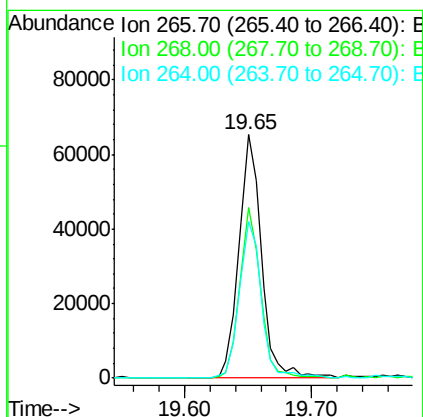
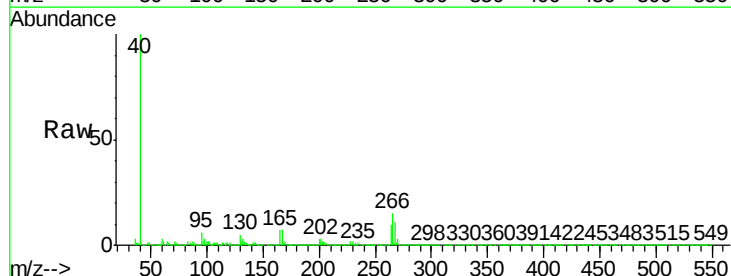
Instrument :
BNA_E
ClientSampled :

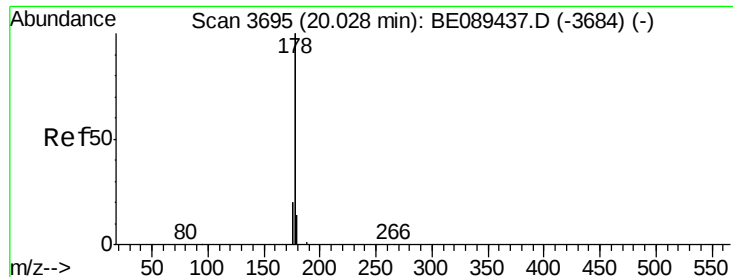
Tgt Ion:188 Resp: 124
Ion Ratio Lower Upper
188 100
94 0.7 9.4 14.0#
80 0.0 9.3 13.9#



#12
Pentachlorophenol
Concen: 860.46 ng
RT: 19.65 min Scan# 3108
Delta R.T. -0.01 min
Lab File: BE089471.D
Acq: 31 Jan 2015 14:51

Tgt Ion:266 Resp: 80236
Ion Ratio Lower Upper
266 100
268 70.2 54.2 81.4
264 71.4 56.2 84.2





#13

Phenanthrene

Concen: 0.69 ng

RT: 19.99 min Scan# 3165

Delta R.T. -0.04 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampleId :

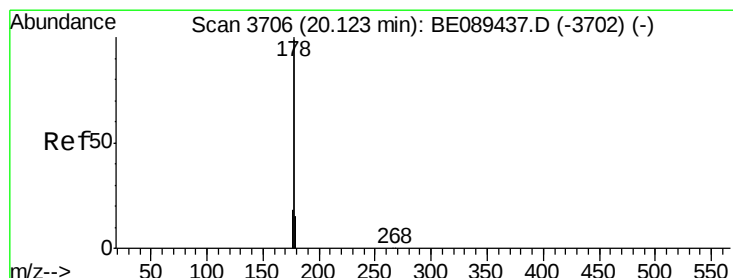
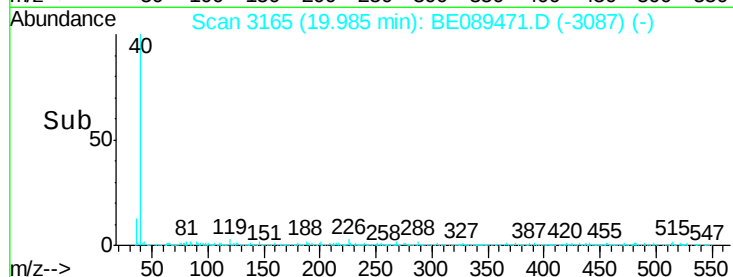
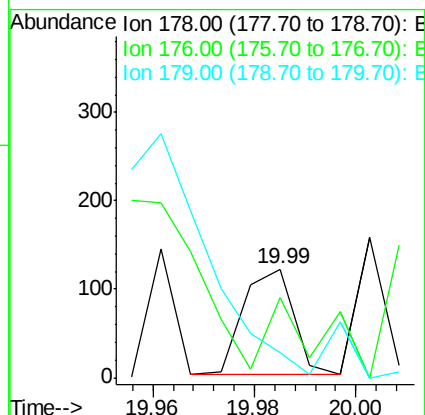
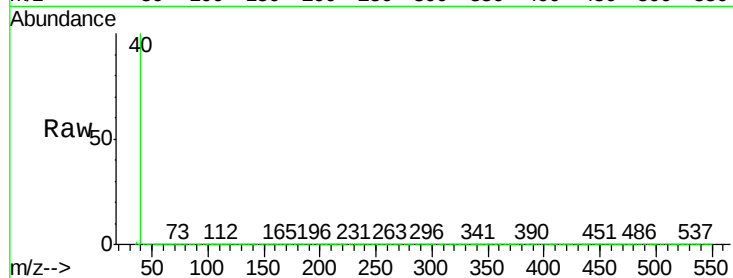
Tgt Ion:178 Resp: 84

Ion Ratio Lower Upper

178 100

176 47.6 15.1 22.7#

179 0.0 12.3 18.5#



#14

Anthracene

Concen: 0.72 ng

RT: 20.06 min Scan# 3178

Delta R.T. -0.06 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

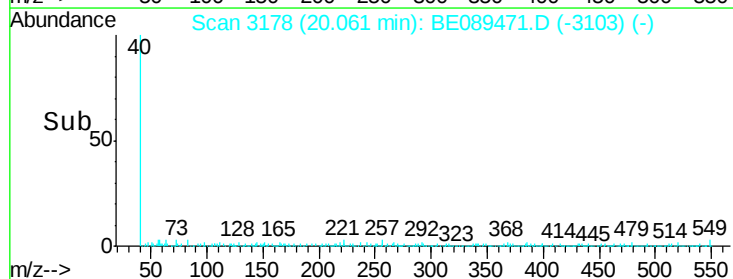
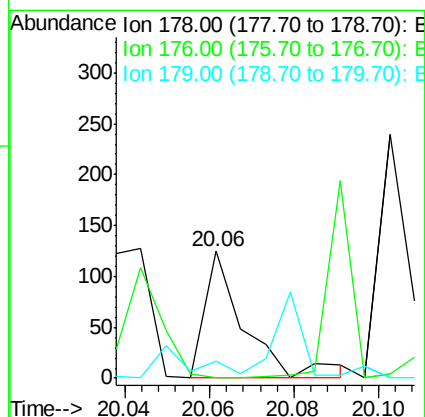
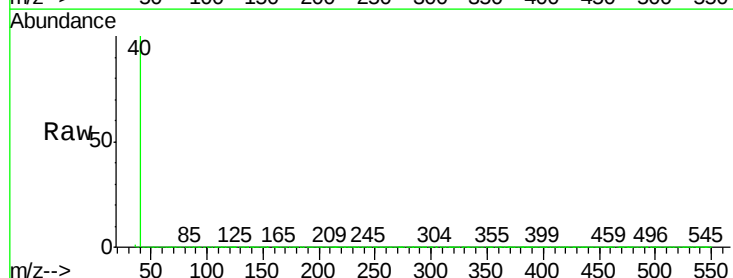
Tgt Ion:178 Resp: 80

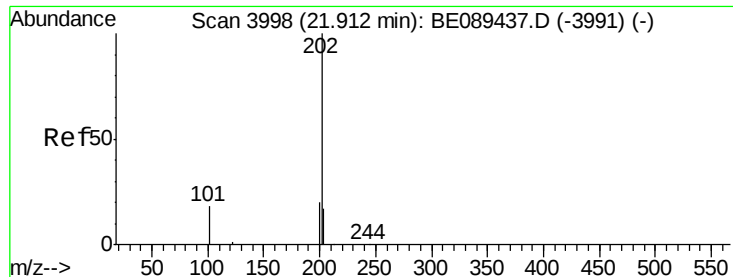
Ion Ratio Lower Upper

178 100

176 83.8 14.6 22.0#

179 0.0 12.2 18.2#





#15

Fluoranthene

Concen: 2.74 ng

RT: 21.85 min Scan# 3482

Delta R.T. -0.06 min

Lab File: BE089471.D

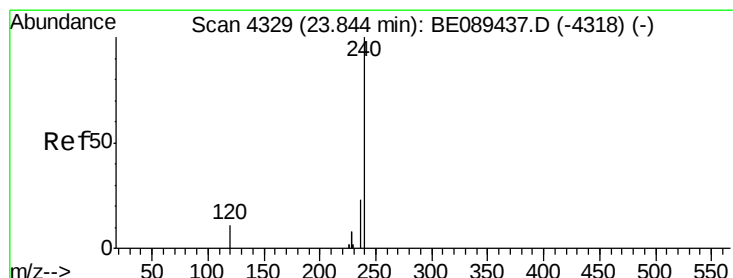
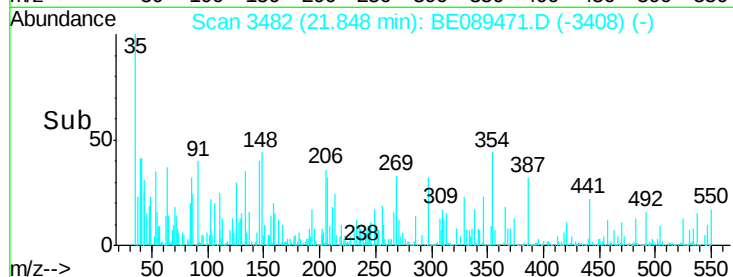
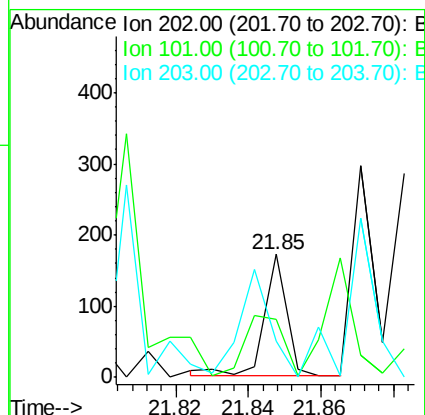
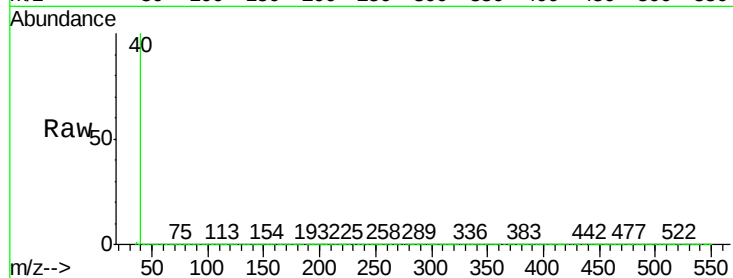
Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	202	Resp:	73
Ion Ratio	Lower	Upper	
202	100		
101	0.0	13.6	20.4#
203	123.3	13.8	20.6#



#16

Chrysene-d12

Concen: 5.00 ng

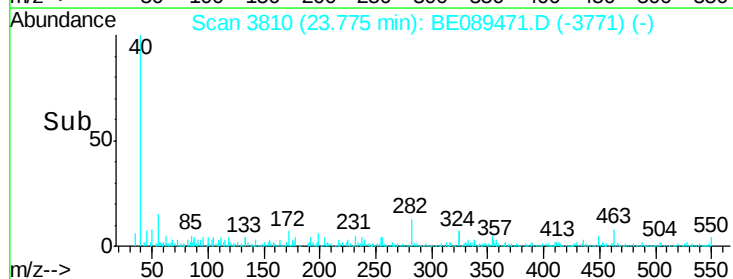
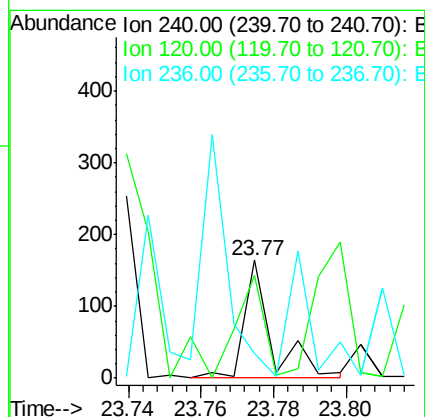
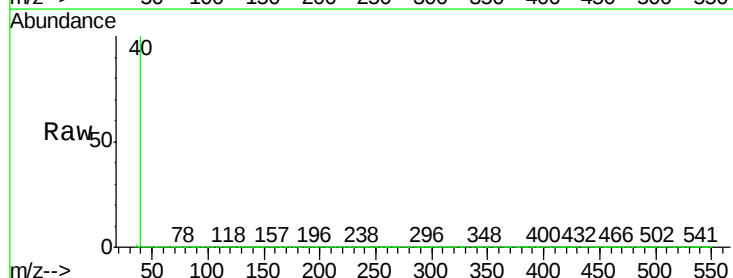
RT: 23.77 min Scan# 3810

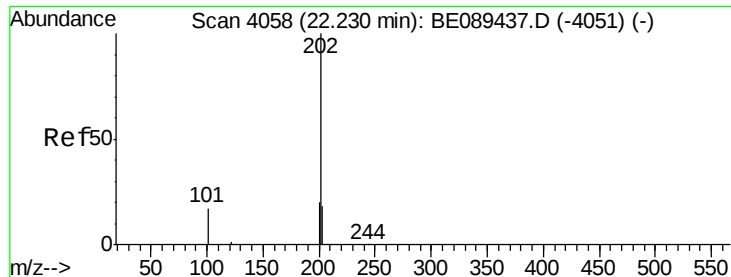
Delta R.T. -0.07 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Tgt Ion:	240	Resp:	85
Ion Ratio	Lower	Upper	
240	100		
120	87.8	8.6	13.0#
236	20.7	18.7	28.1





#17

Pyrene

Concen: 8.12 ng

RT: 22.17 min Scan# 3537

Delta R.T. -0.06 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampleId :

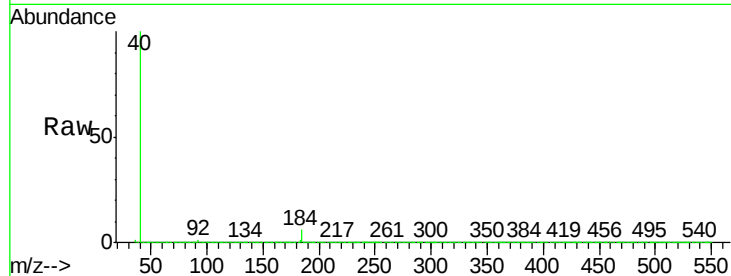
Tgt Ion:202 Resp: 183

Ion Ratio Lower Upper

202 100

200 32.8 16.2 24.4#

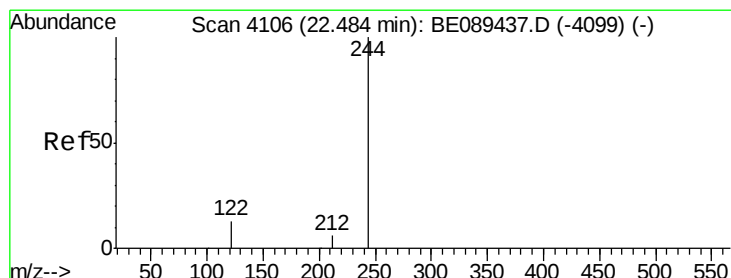
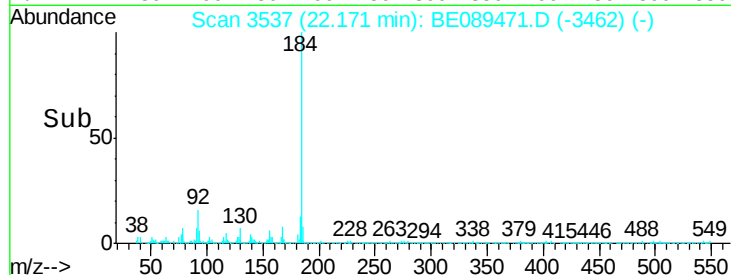
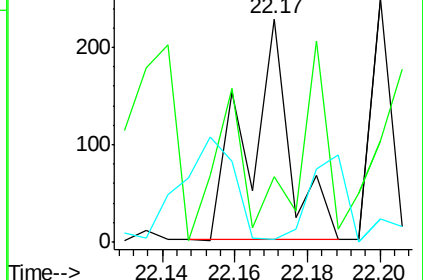
203 57.9 13.8 20.8#



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: 18.15 ng

RT: 22.44 min Scan# 3582

Delta R.T. -0.05 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

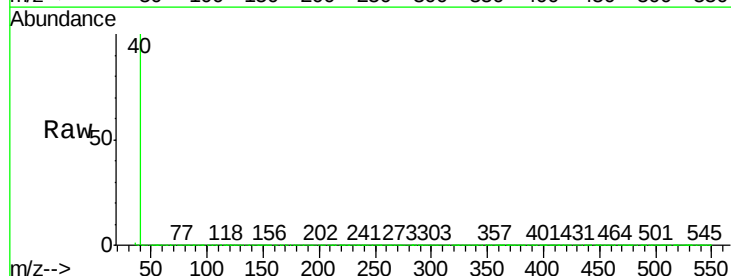
Tgt Ion:244 Resp: 231

Ion Ratio Lower Upper

244 100

212 1.6 5.0 7.6#

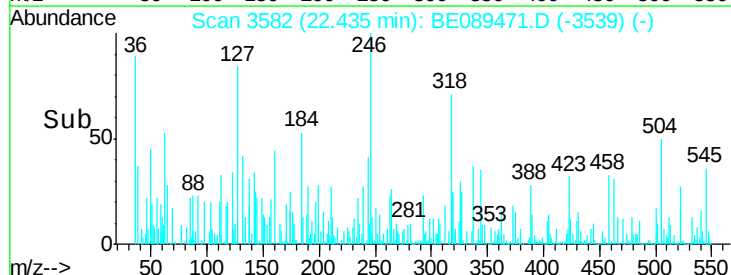
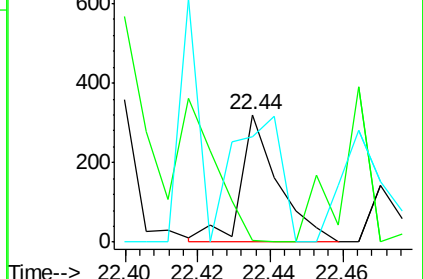
122 82.9 10.2 15.4#

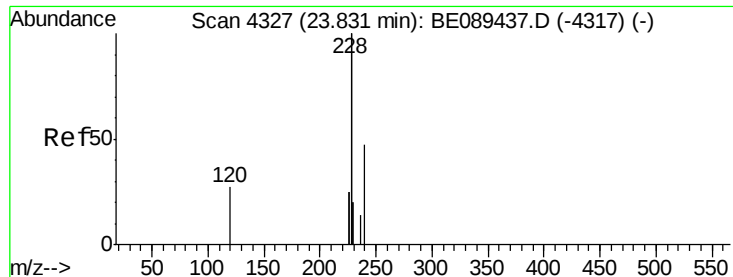


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.66 ng

RT: 23.75 min Scan# 3806

Delta R.T. -0.08 min

Lab File: BE089471.D

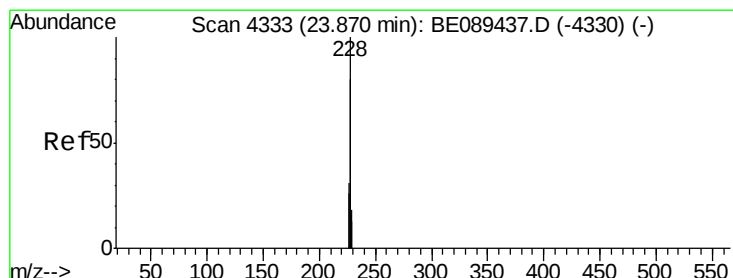
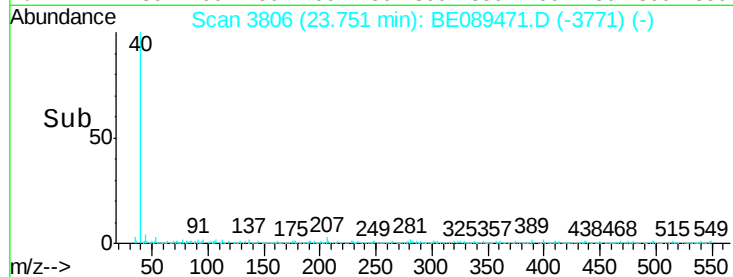
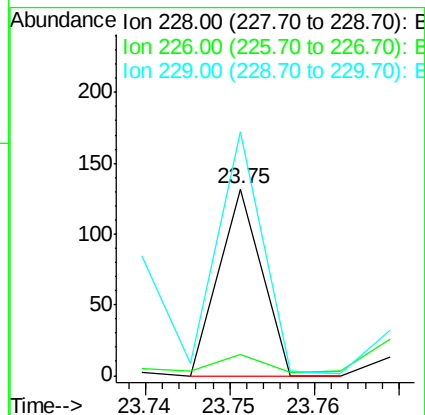
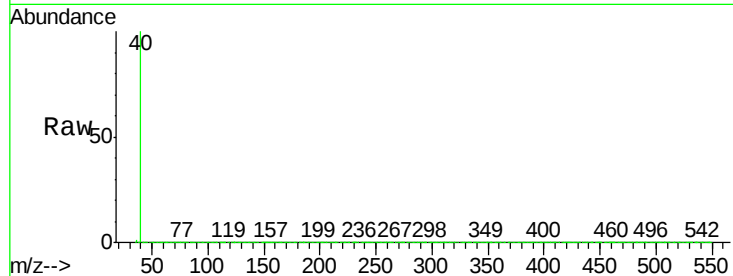
Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	228	Resp:	47
Ion	Ratio	Lower	Upper
228	100		
226	11.4	20.0	30.0#
229	130.3	16.0	24.0#



#20

Chrysene

Concen: 3.12 ng

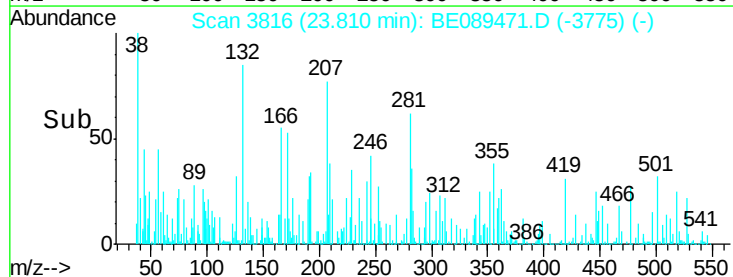
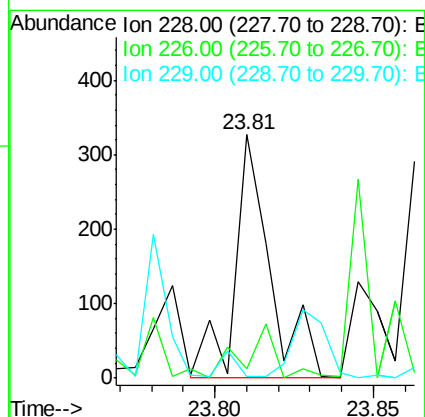
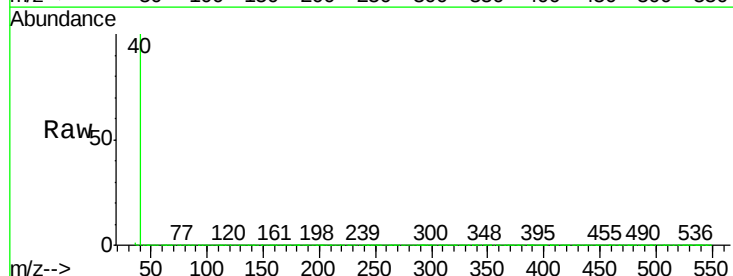
RT: 23.81 min Scan# 3816

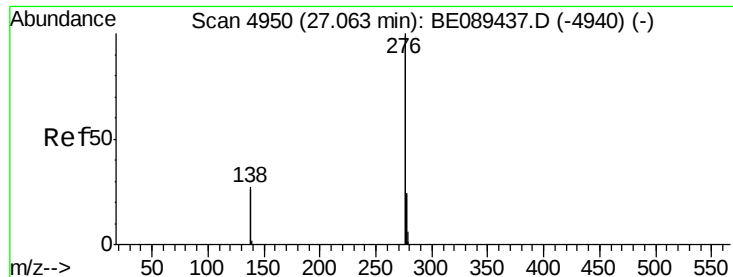
Delta R.T. -0.06 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Tgt Ion:	228	Resp:	252
Ion	Ratio	Lower	Upper
228	100		
226	4.0	24.5	36.7#
229	0.6	14.1	21.1#





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.43 ng

RT: 26.98 min Scan# 4355

Delta R.T. -0.09 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

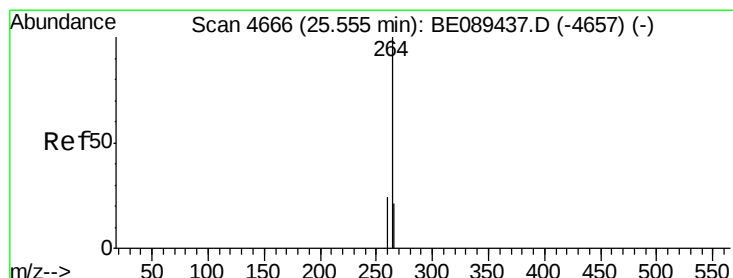
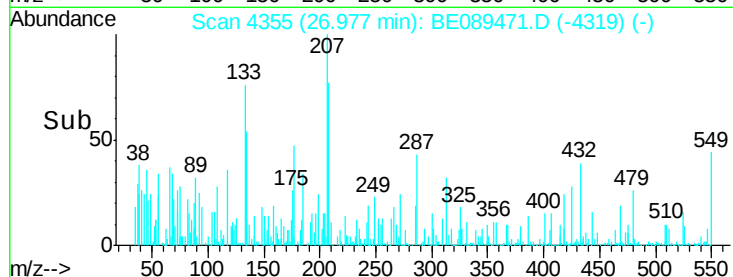
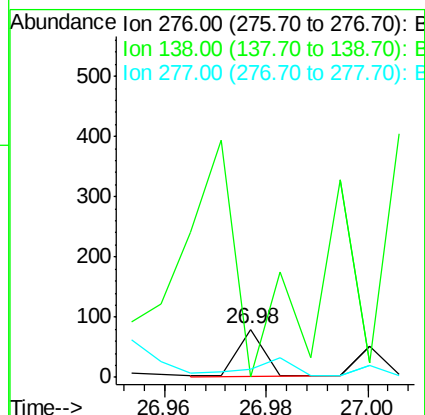
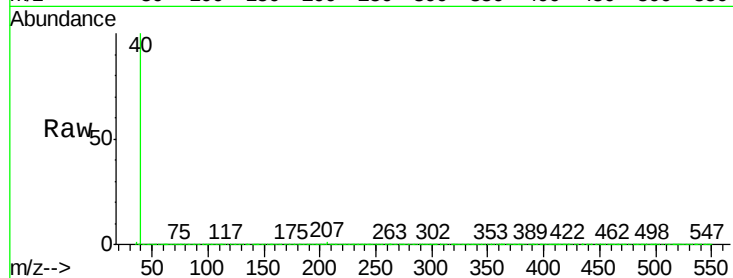
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:276 Resp: 30

Ion	Ratio	Lower	Upper
276	100		
138	1430.0	25.4	38.0#
277	0.0	19.8	29.6#



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.48 min Scan# 4101

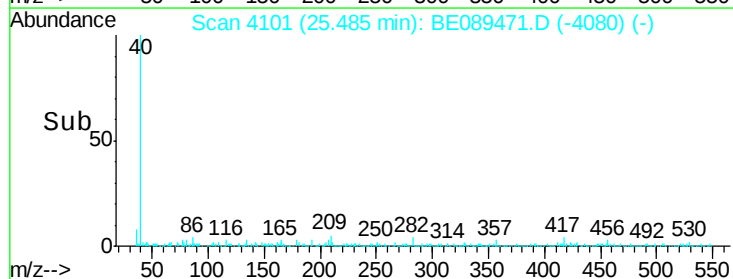
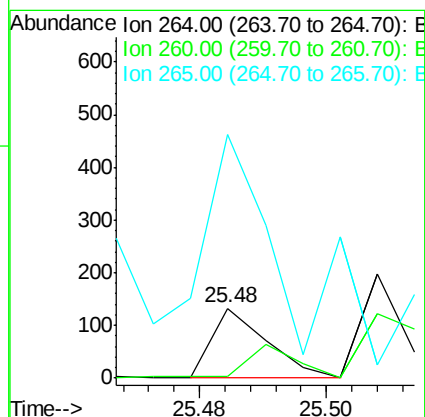
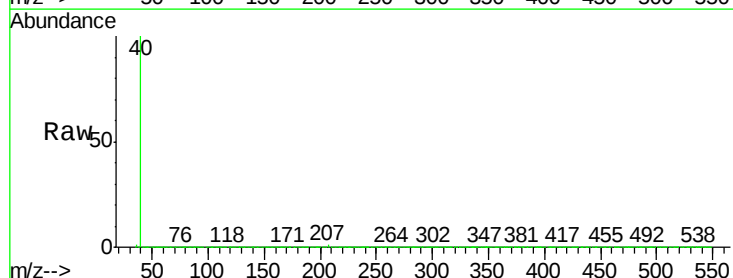
Delta R.T. -0.07 min

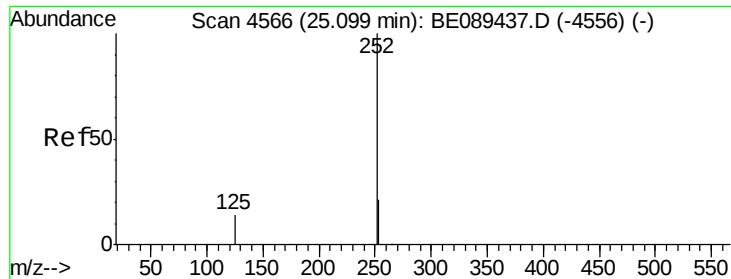
Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Tgt Ion:264 Resp: 79

Ion	Ratio	Lower	Upper
264	100		
260	2.3	19.4	29.0#
265	347.4	17.0	25.6#





#23

Benzo(b)fluoranthene

Concen: 7.72 ng

RT: 25.05 min Scan# 4027

Delta R.T. -0.05 min

Lab File: BE089471.D

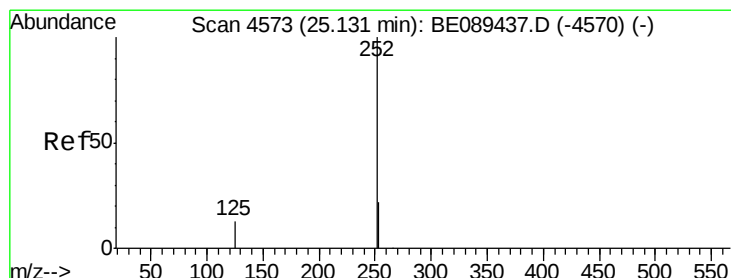
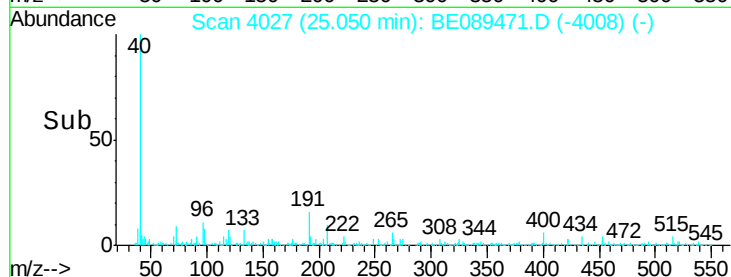
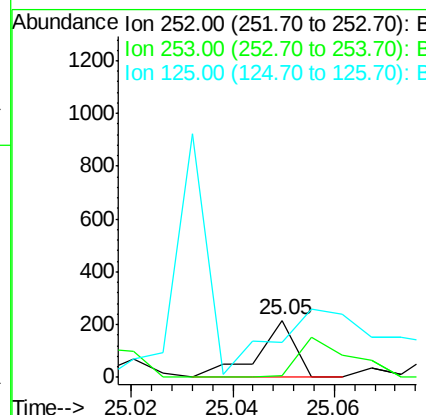
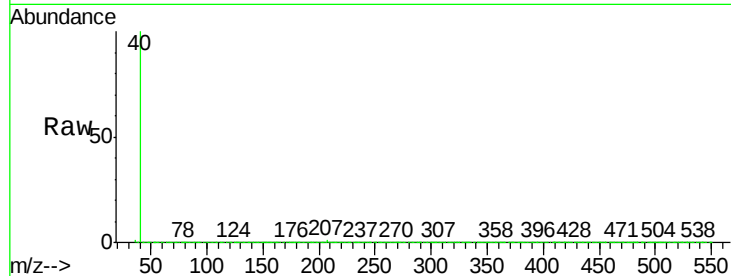
Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	110
Ion Ratio	Lower	Upper	
252	100		
253	2.3	17.0	25.6#
125	61.1	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 5.47 ng

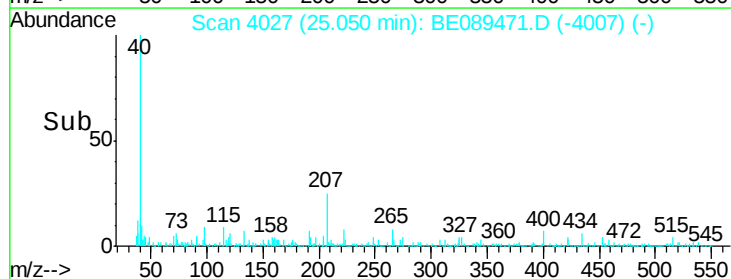
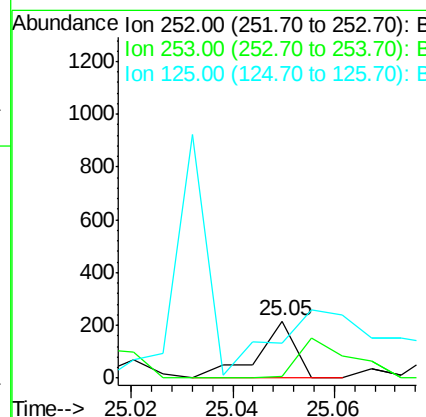
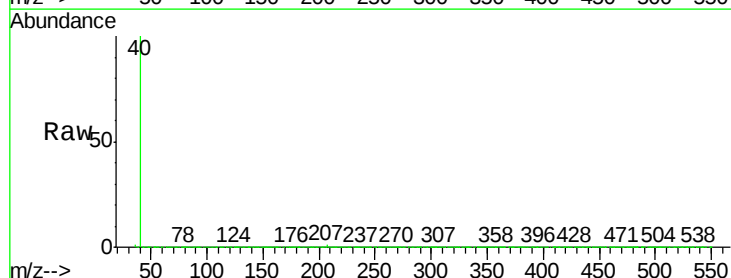
RT: 25.05 min Scan# 4027

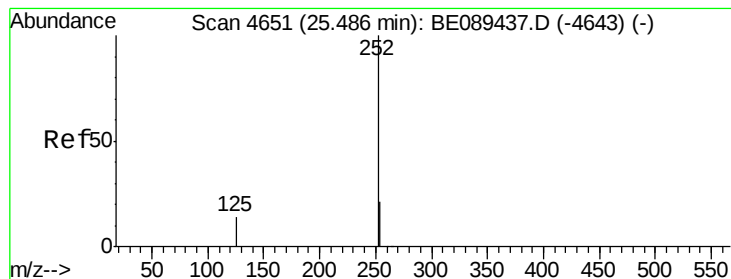
Delta R.T. -0.08 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Tgt Ion:	252	Resp:	110
Ion Ratio	Lower	Upper	
252	100		
253	2.3	17.4	26.2#
125	61.1	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 5.18 ng

RT: 25.41 min Scan# 4088

Delta R.T. -0.08 min

Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

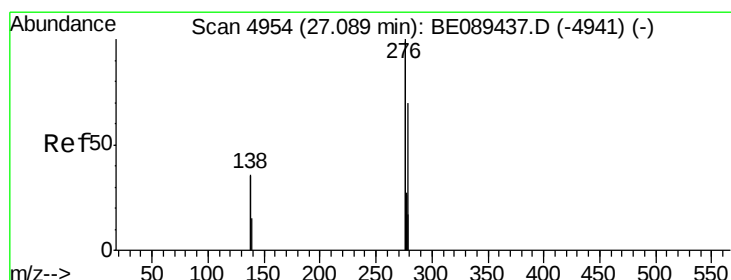
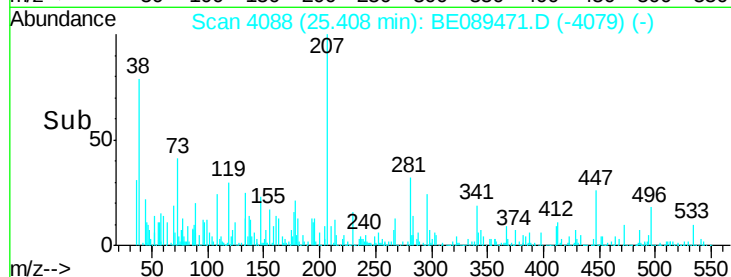
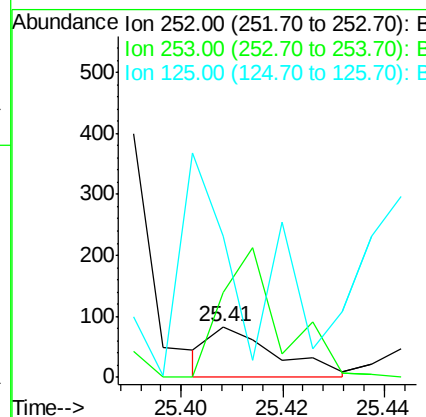
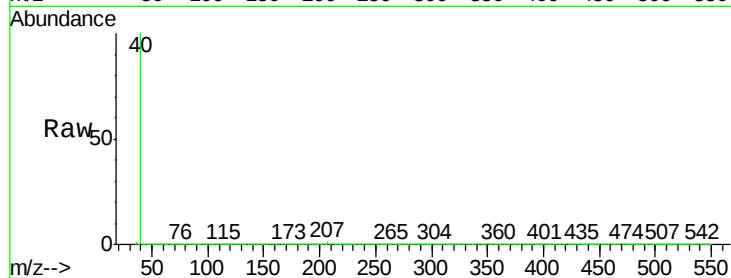
Instrument :

BNA_E

ClientSampled :

Tgt Ion:252 Resp: 74

Ion	Ratio	Lower	Upper
252	100		
253	168.7	17.3	25.9#
125	279.5	12.0	18.0#



#26

Dibenzo(a,h)anthracene

Concen: 6.08 ng

RT: 27.01 min Scan# 4361

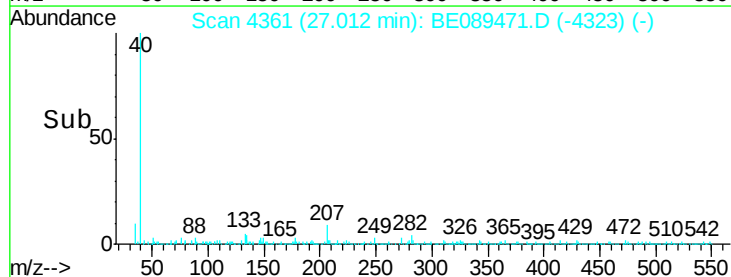
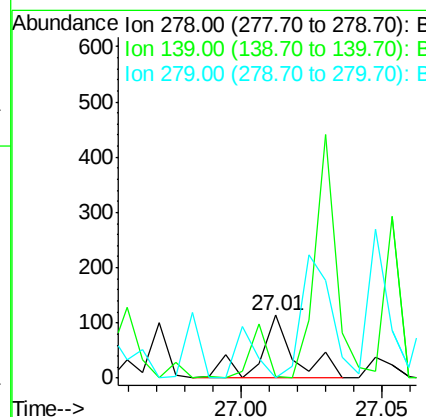
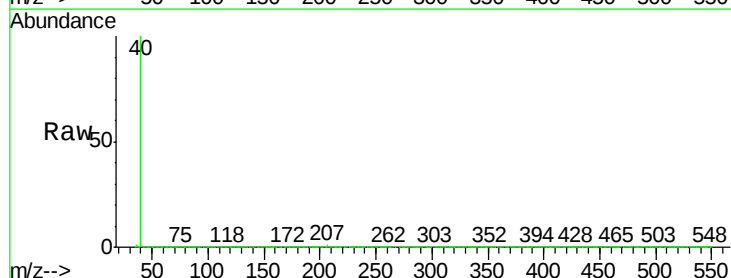
Delta R.T. -0.08 min

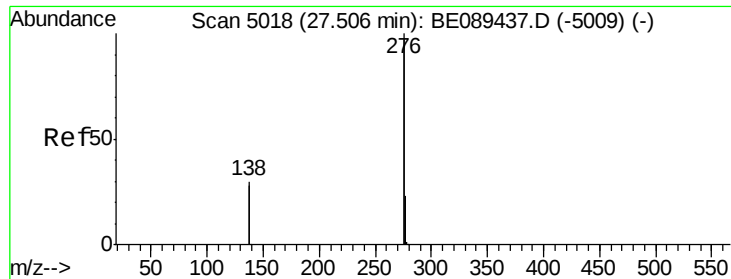
Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Tgt Ion:278 Resp: 99

Ion	Ratio	Lower	Upper
278	100		
139	2.6	17.0	25.4#
279	299.1	19.1	28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.35 ng

RT: 27.45 min Scan# 4435

Delta R.T. -0.06 min

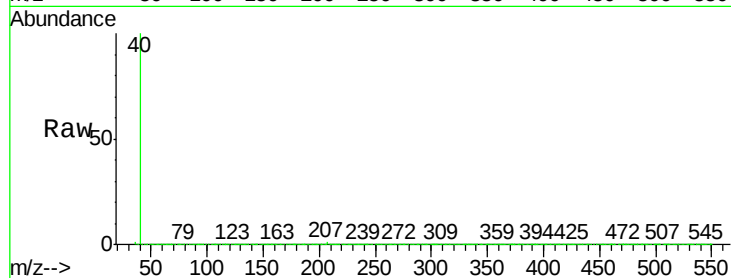
Lab File: BE089471.D

Acq: 31 Jan 2015 14:51

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	22
Ion Ratio	Lower	Upper	
276	100		
277	256.4	18.4	27.6#
138	15.4	23.7	35.5#

