

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089467.D
 Acq On : 31 Jan 2015 12:13
 Operator : TP/IZ
 Sample : MDL-02-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 02:29:22 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

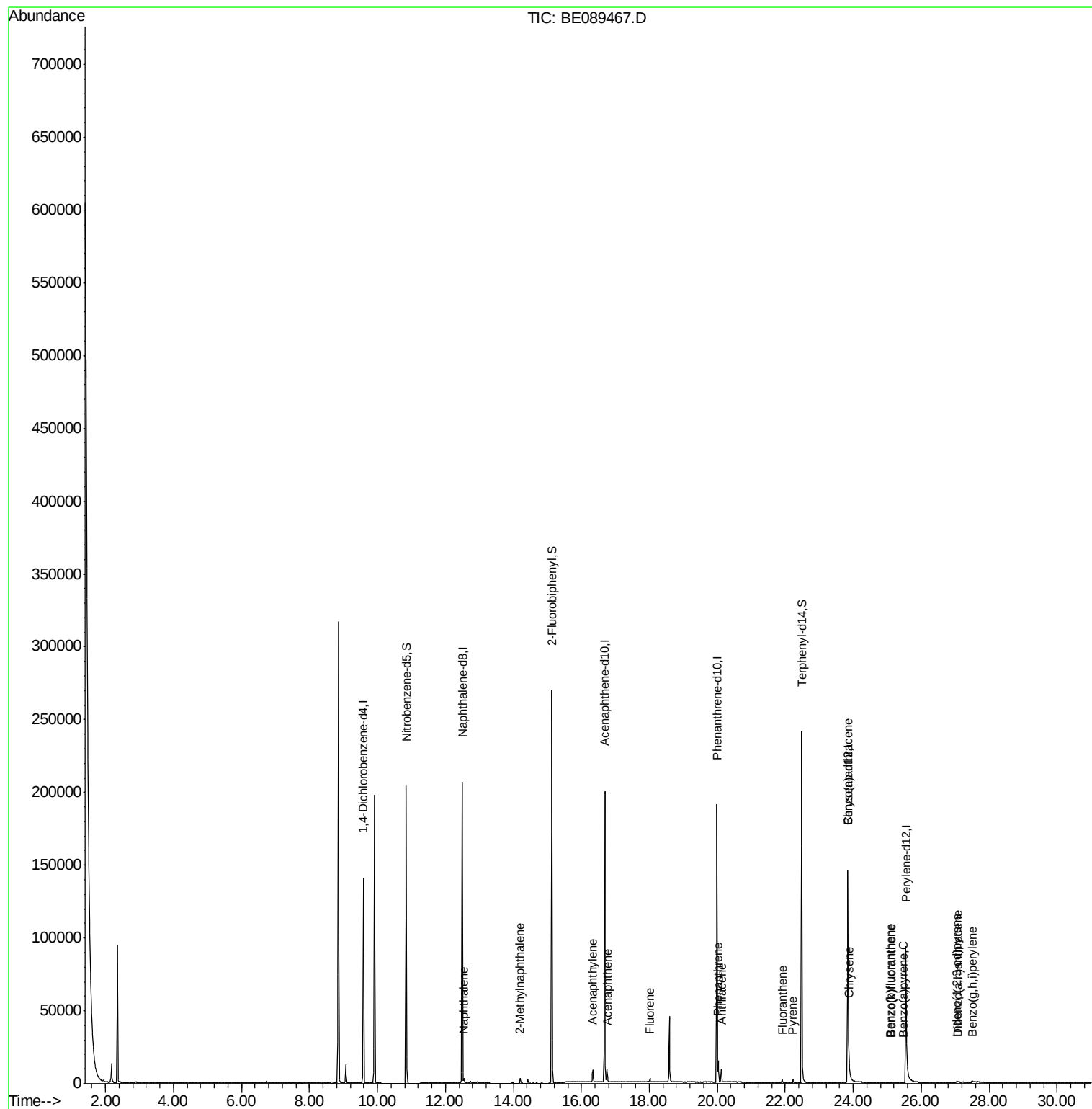
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	57361	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	232426	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	116371	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	189739	5.00	ng	0.00
16) Chrysene-d12	23.84	240	150465	5.00	ng	0.00
22) Perylene-d12	25.55	264	129426	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	138119	8.97	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	234261	7.64	ng	0.00
18) Terphenyl-d14	22.48	244	207089	9.19	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.54	128	3786	0.07	ng	97
5) 2-Methylnaphthalene	14.20	142	2119	0.06	ng	95
8) Acenaphthylene	16.34	152	11199	0.05	ng	99
9) Acenaphthene	16.76	154	1971	0.06	ng	94
10) Fluorene	18.02	166	1955	0.06	ng	99
12) Pentachlorophenol	19.66	266	158	Below Cal		91
13) Phenanthrene	20.03	178	12926	0.07	ng	98
14) Anthracene	20.12	178	9399	0.06	ng	99
15) Fluoranthene	21.91	202	2119	0.05	ng	97
17) Pyrene	22.23	202	2246	0.06	ng	97
19) Benzo(a)anthracene	23.83	228	6651	0.05	ng	96
20) Chrysene	23.87	228	10517	0.07	ng	# 94
21) Indeno(1,2,3-cd)pyrene	27.05	276	1710	0.01	ng	# 84
23) Benzo(b)fluoranthene	25.10	252	407	0.20	ng	# 62
24) Benzo(k)fluoranthene	25.12	252	613	0.02	ng	# 66
25) Benzo(a)pyrene	25.47	252	434	0.14	ng	# 61
26) Dibenzo(a,h)anthracene	27.08	278	327	0.14	ng	# 33
27) Benzo(g,h,i)perylene	27.51	276	2369	0.02	ng	# 61

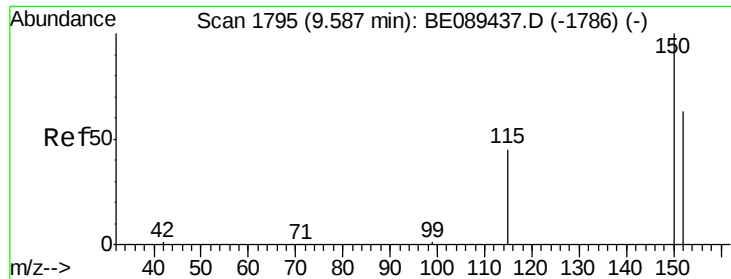
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :

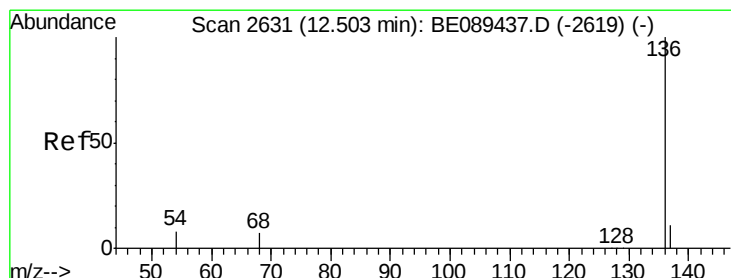
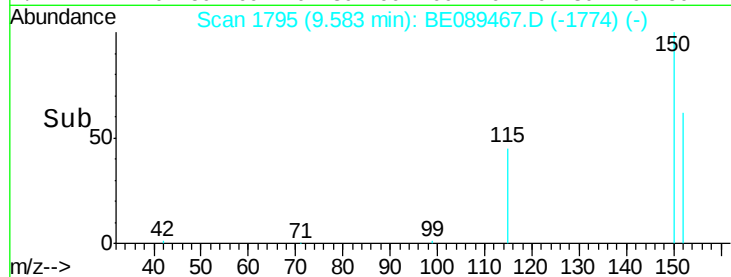
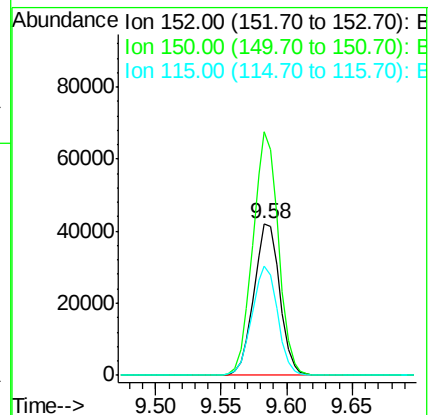
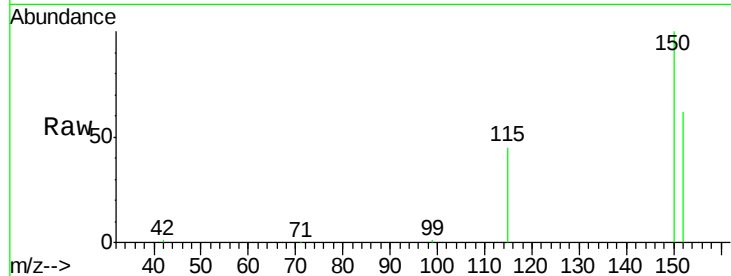
Tgt Ion:152 Resp: 57361

Ion Ratio Lower Upper

152 100

150 160.7 127.2 190.8

115 72.2 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

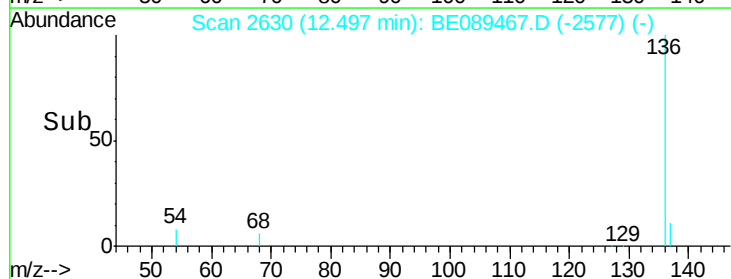
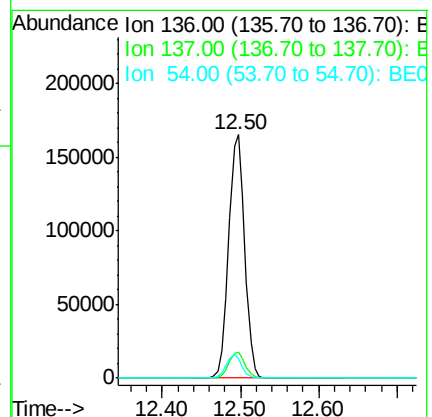
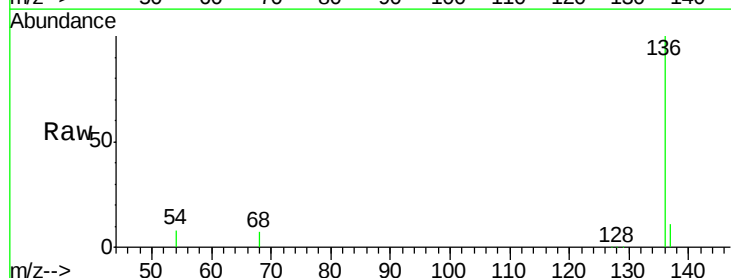
Tgt Ion:136 Resp: 232426

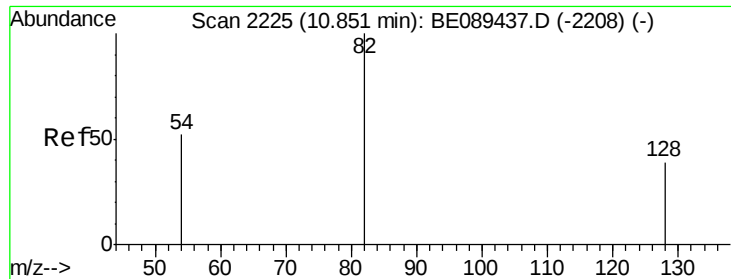
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 7.9 6.6 10.0





#3

Nitrobenzene-d5

Concen: 8.97 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

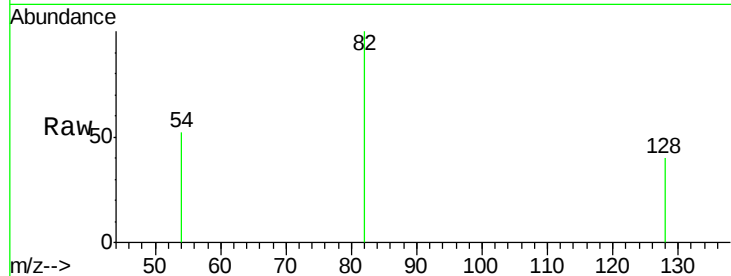
Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :



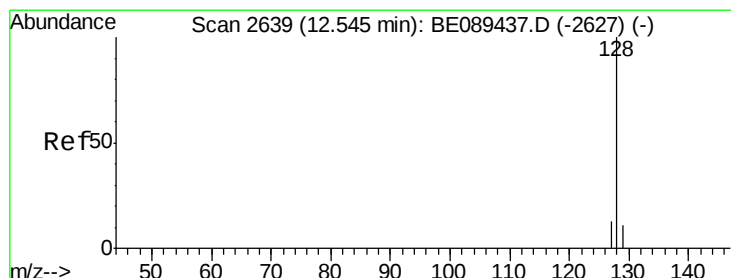
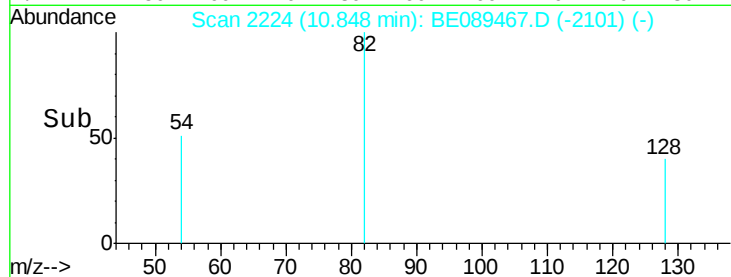
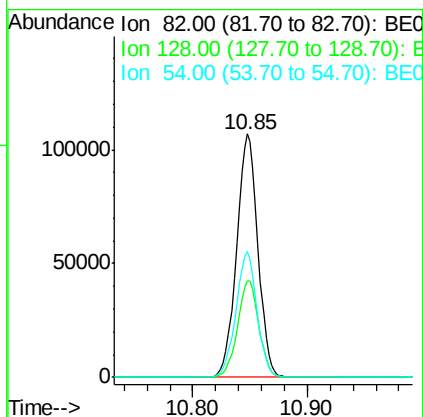
Tgt Ion: 82 Resp: 138119

Ion Ratio Lower Upper

82 100

128 39.7 31.2 46.8

54 51.5 41.9 62.9



#4

Naphthalene

Concen: 0.07 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

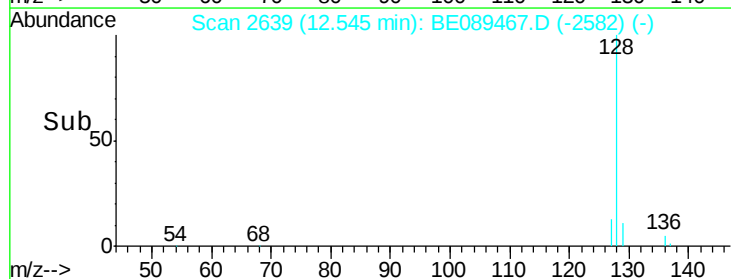
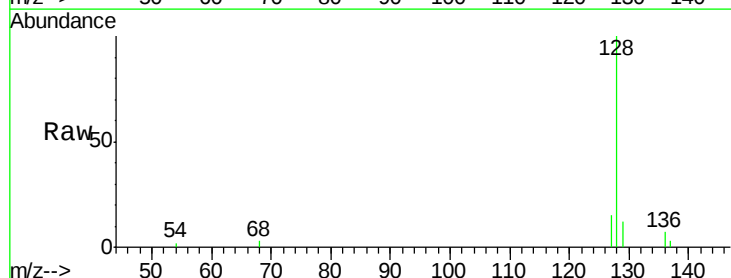
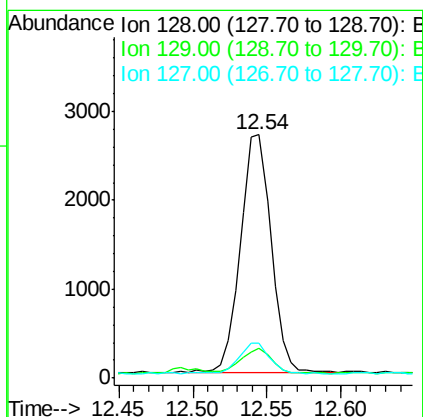
Tgt Ion: 128 Resp: 3786

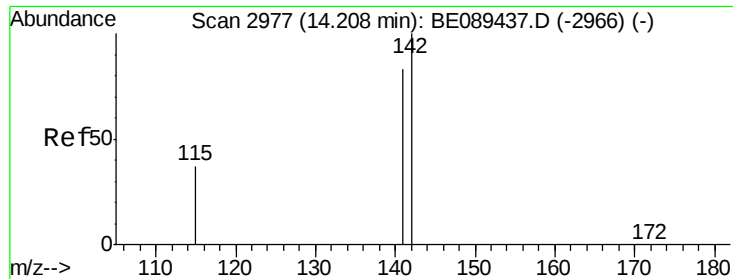
Ion Ratio Lower Upper

128 100

129 12.4 8.8 13.2

127 14.6 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089467.D

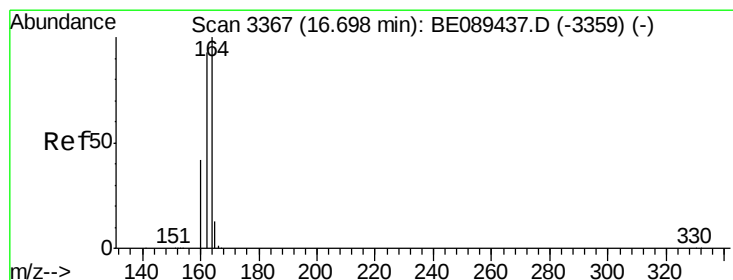
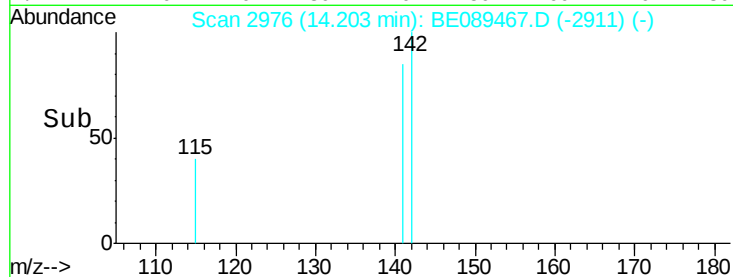
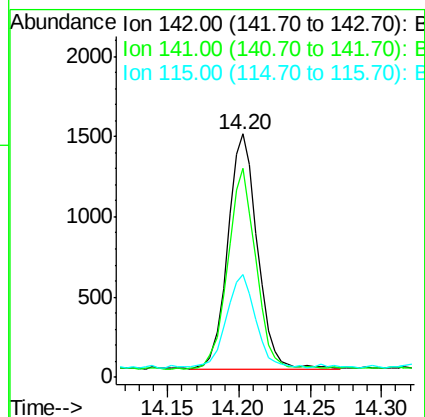
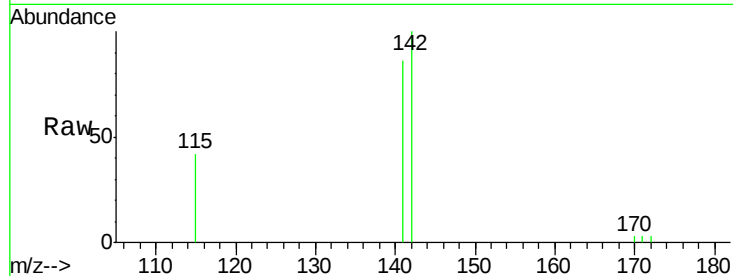
Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	2119
Ion	Ratio	Lower	Upper
142	100		
141	85.6	66.1	99.1
115	42.2	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

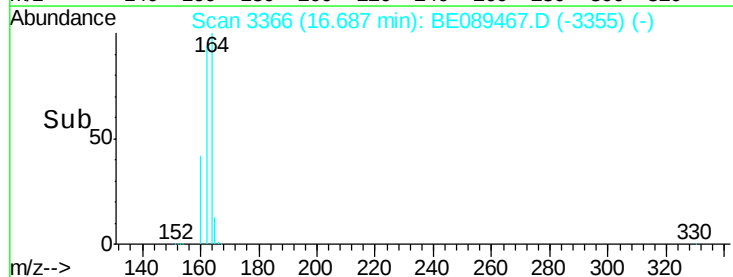
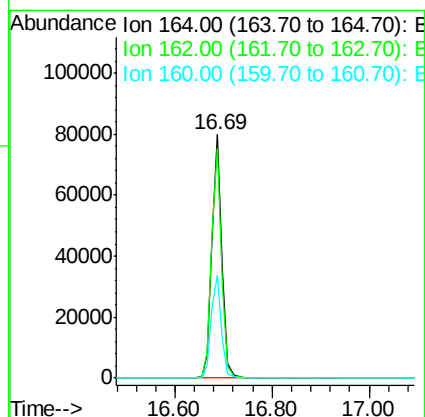
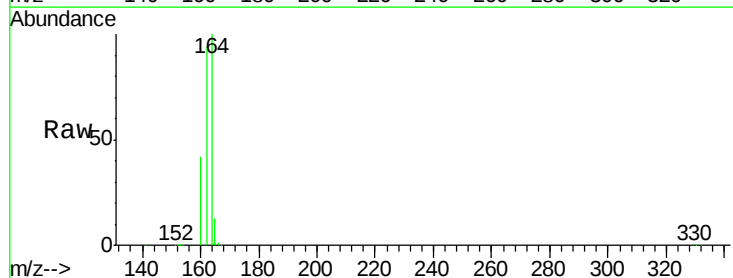
RT: 16.69 min Scan# 3366

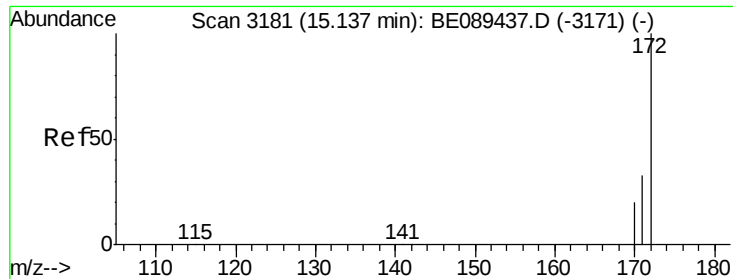
Delta R.T. -0.01 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Tgt Ion:	164	Resp:	116371
Ion	Ratio	Lower	Upper
164	100		
162	94.2	74.7	112.1
160	42.3	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.64 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :

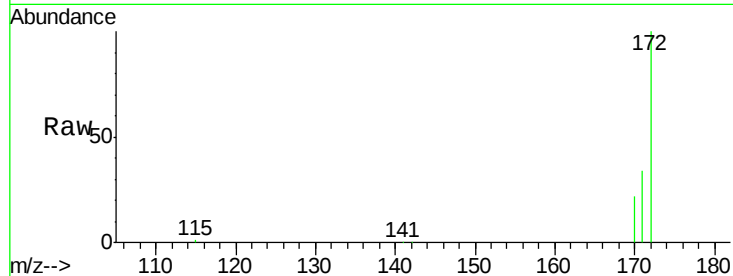
Tgt Ion:172 Resp: 234261

Ion Ratio Lower Upper

172 100

171 33.7 26.2 39.4

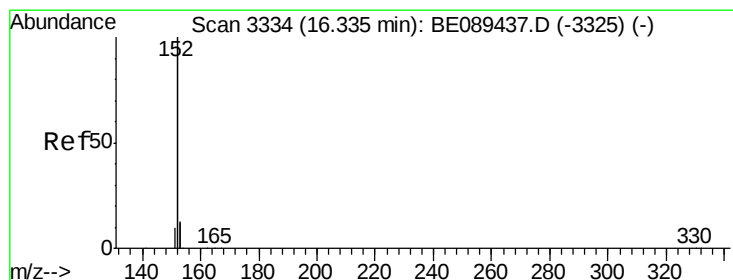
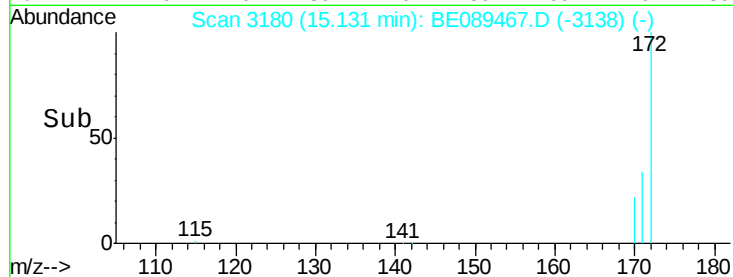
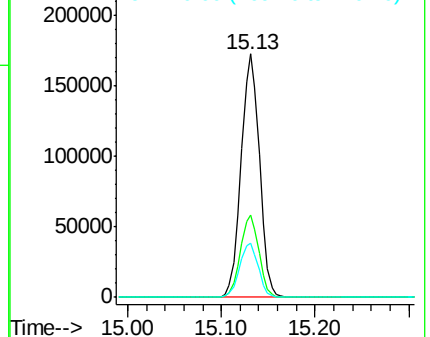
170 22.2 16.5 24.7



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: 0.05 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

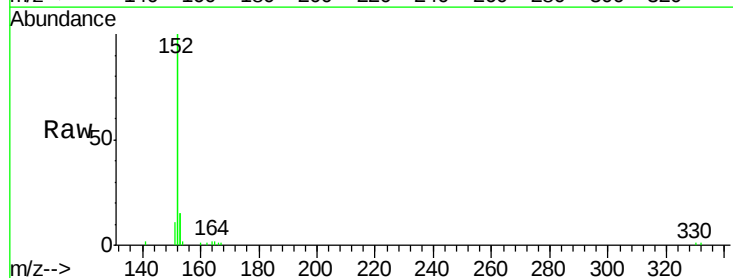
Tgt Ion:152 Resp: 11199

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

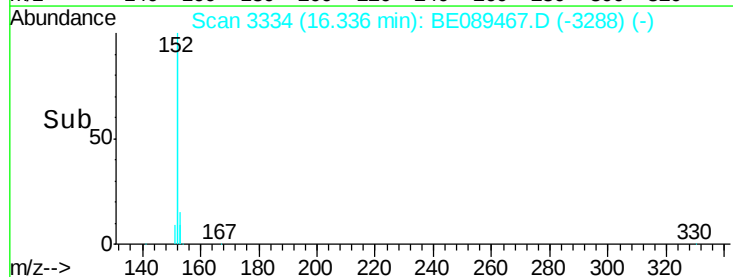
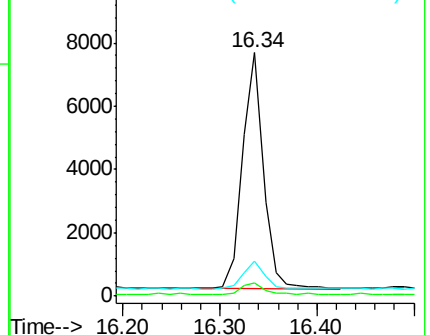
153 12.6 10.3 15.5

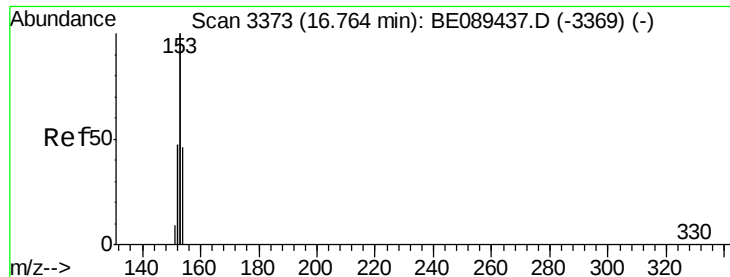


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :

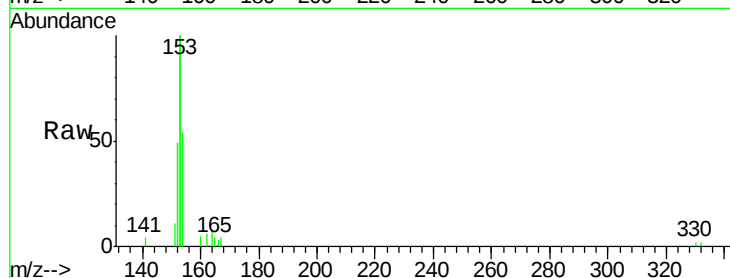
Tgt Ion:154 Resp: 1971

Ion Ratio Lower Upper

154 100

153 421.2 342.3 513.5

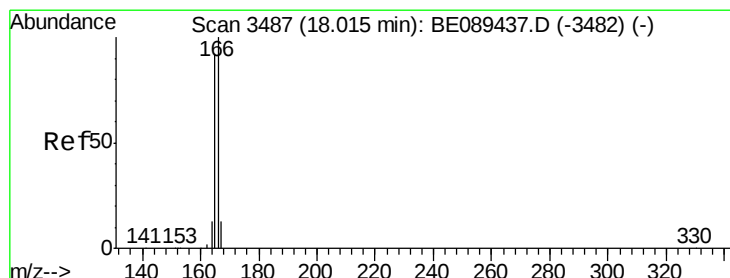
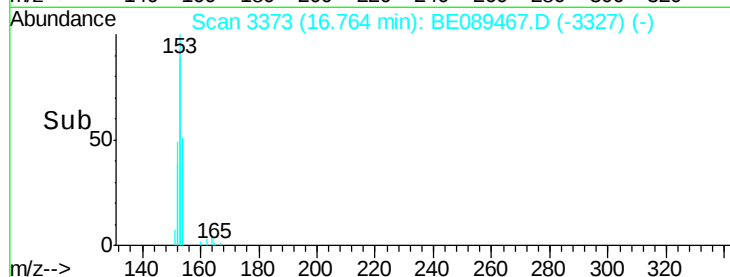
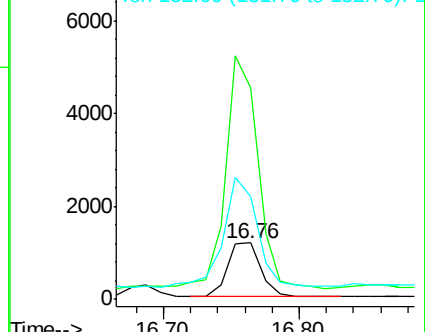
152 225.0 165.5 248.3



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: 0.06 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

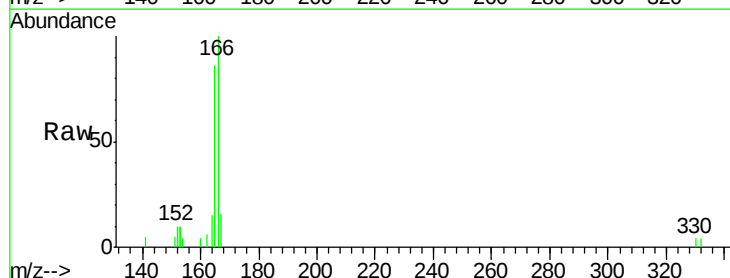
Tgt Ion:166 Resp: 1955

Ion Ratio Lower Upper

166 100

165 94.1 74.4 111.6

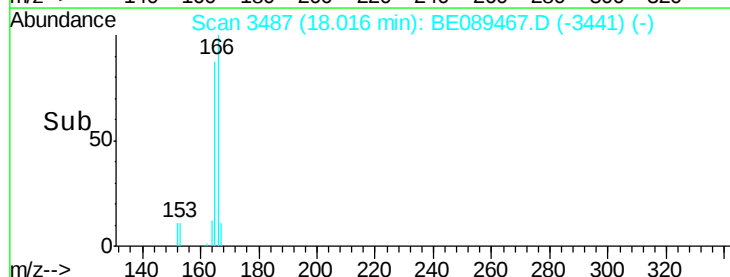
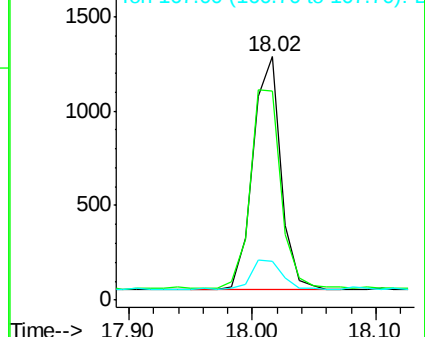
167 14.9 10.6 15.8

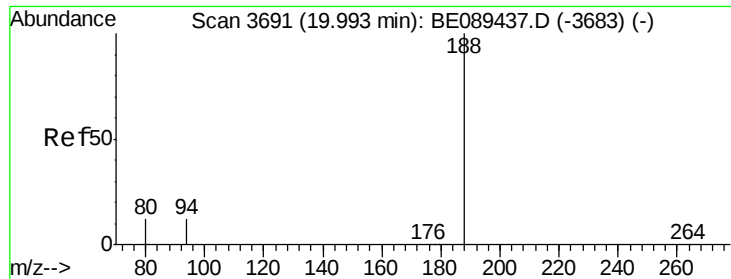


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

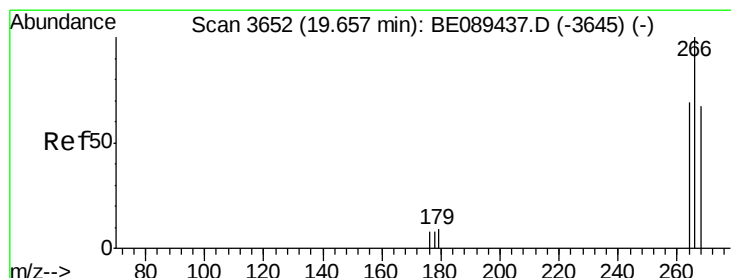
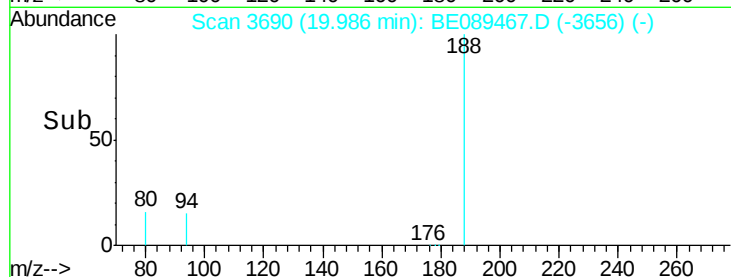
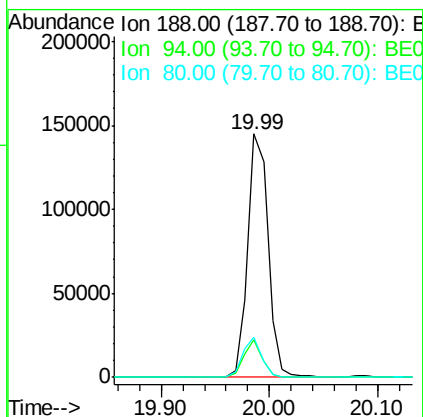
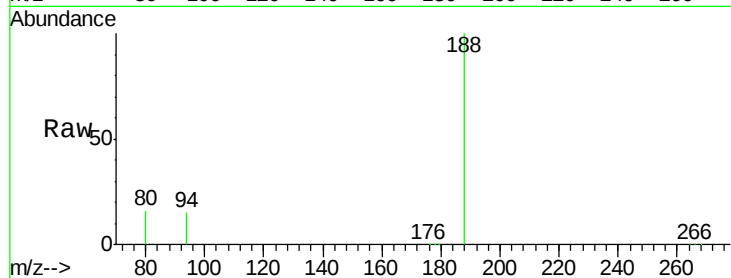




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089467.D
Acq: 31 Jan 2015 12:13

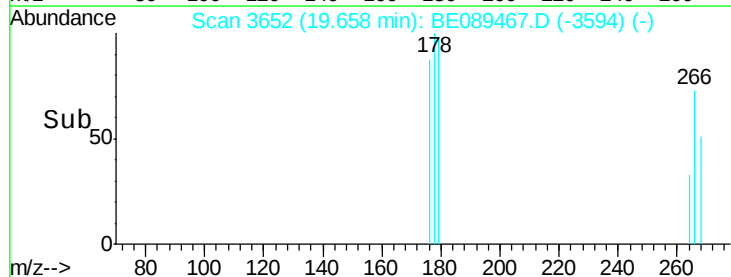
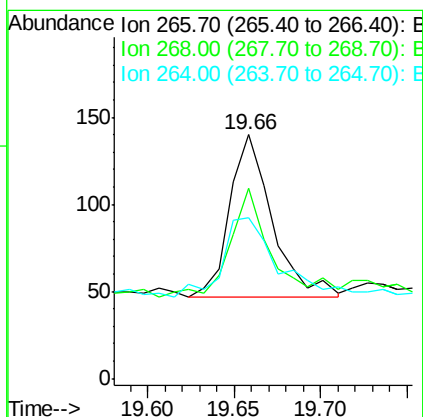
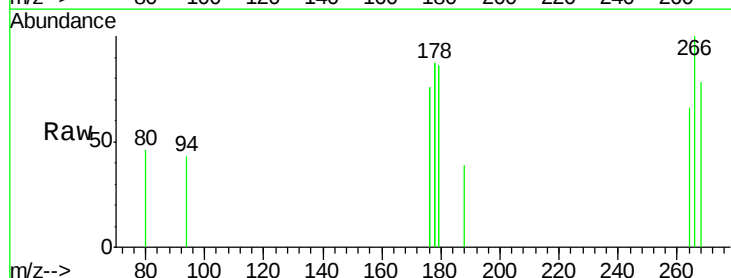
Instrument :
BNA_E
ClientSampleId :

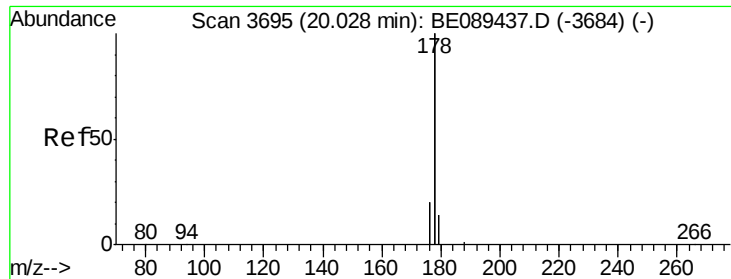
Tgt Ion:188 Resp: 189739
Ion Ratio Lower Upper
188 100
94 15.2 9.4 14.0#
80 16.2 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089467.D
Acq: 31 Jan 2015 12:13

Tgt Ion:266 Resp: 158
Ion Ratio Lower Upper
266 100
268 77.9 54.2 81.4
264 65.7 56.2 84.2

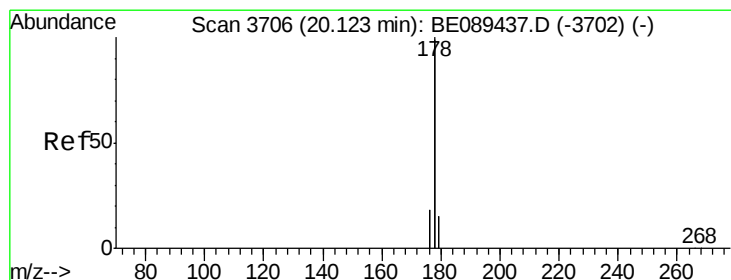
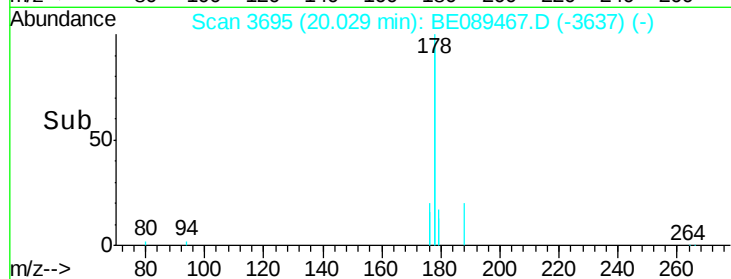
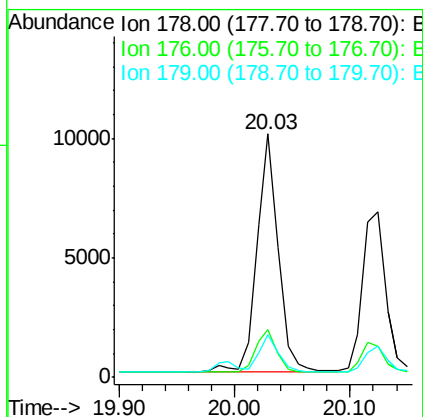
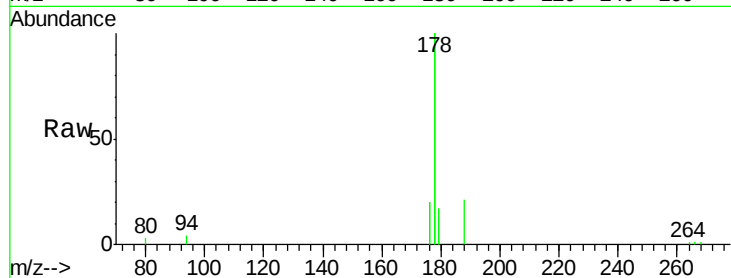




#13
Phenanthrene
Concen: 0.07 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089467.D
Acq: 31 Jan 2015 12:13

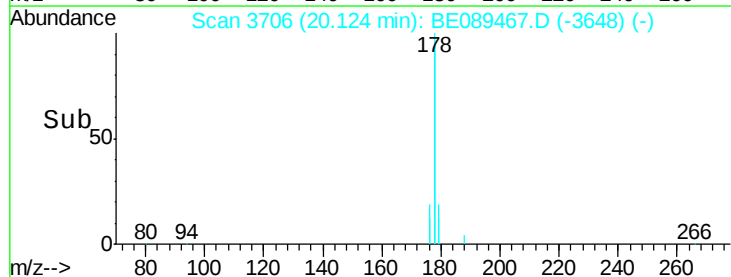
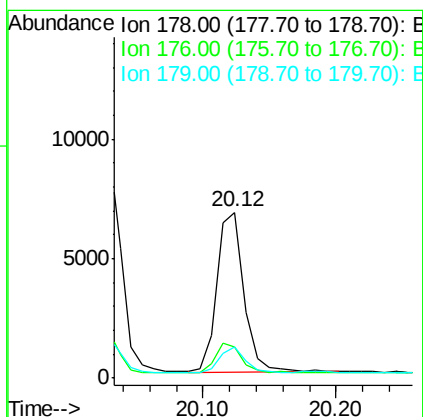
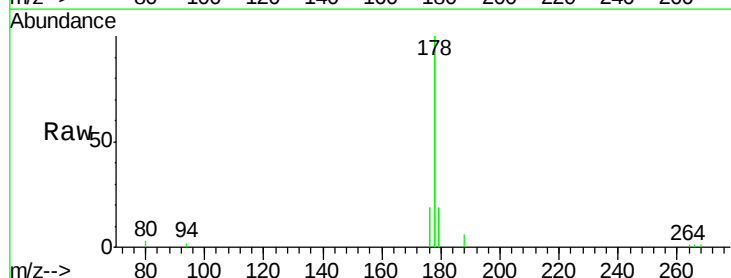
Instrument :
BNA_E
ClientSampleId :

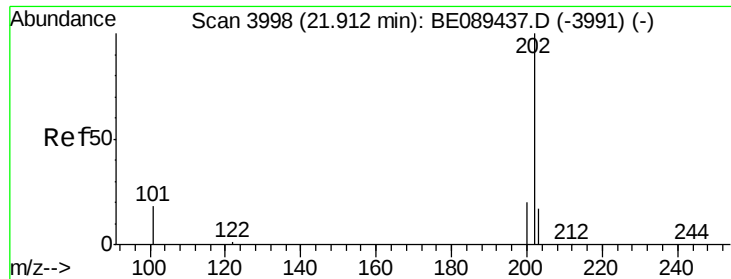
Tgt Ion:178 Resp: 12926
Ion Ratio Lower Upper
178 100
176 18.3 15.1 22.7
179 14.0 12.3 18.5



#14
Anthracene
Concen: 0.06 ng
RT: 20.12 min Scan# 3706
Delta R.T. 0.00 min
Lab File: BE089467.D
Acq: 31 Jan 2015 12:13

Tgt Ion:178 Resp: 9399
Ion Ratio Lower Upper
178 100
176 18.2 14.6 22.0
179 15.8 12.2 18.2

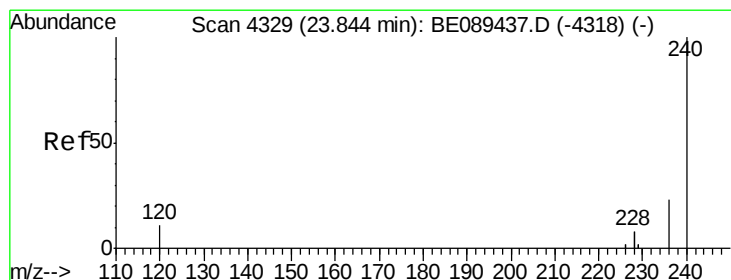
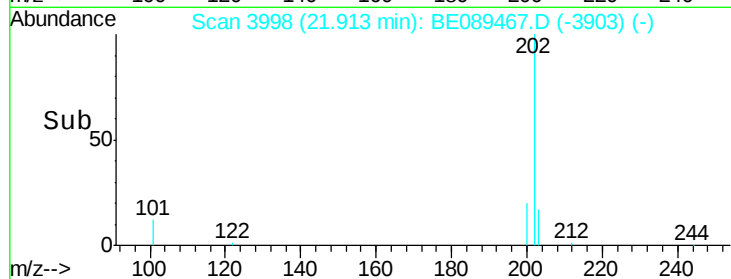
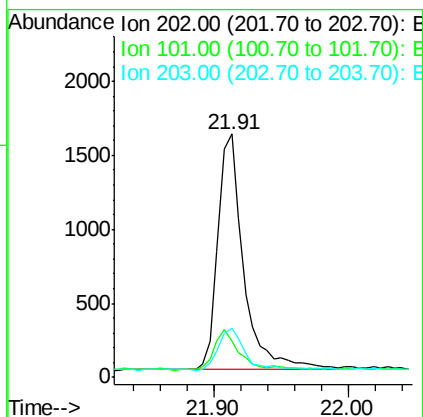
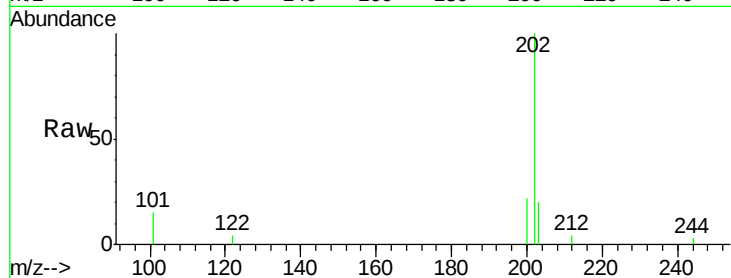




#15
Fluoranthene
Concen: 0.05 ng
RT: 21.91 min Scan# 3998
Delta R.T. 0.00 min
Lab File: BE089467.D
Acq: 31 Jan 2015 12:13

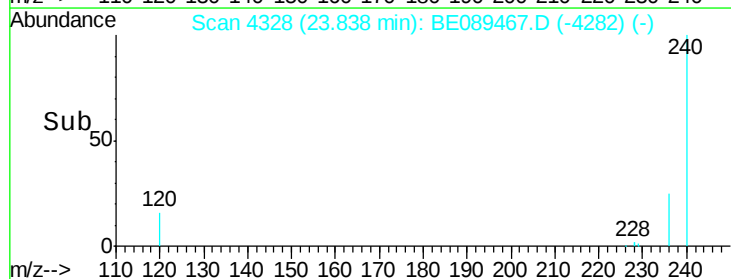
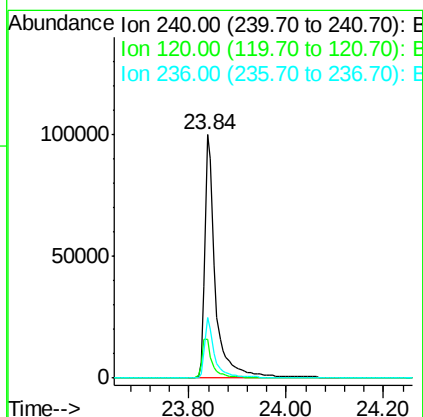
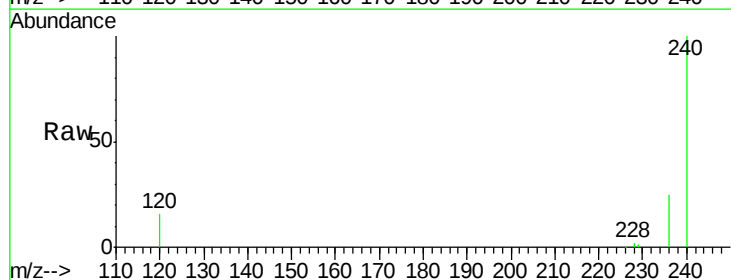
Instrument :
BNA_E
ClientSampleId :

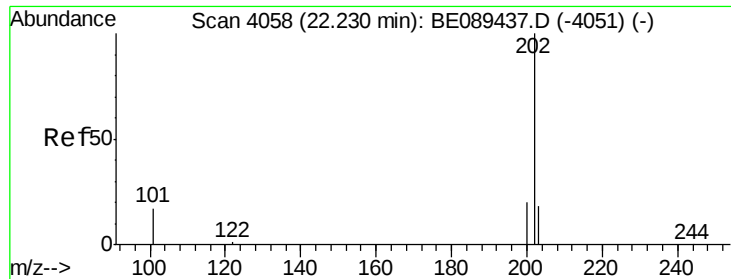
Tgt Ion: 202 Resp: 2119
Ion Ratio Lower Upper
202 100
101 15.8 13.6 20.4
203 18.7 13.8 20.6



#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.84 min Scan# 4328
Delta R.T. -0.01 min
Lab File: BE089467.D
Acq: 31 Jan 2015 12:13

Tgt Ion: 240 Resp: 150465
Ion Ratio Lower Upper
240 100
120 16.0 8.6 13.0#
236 24.6 18.7 28.1

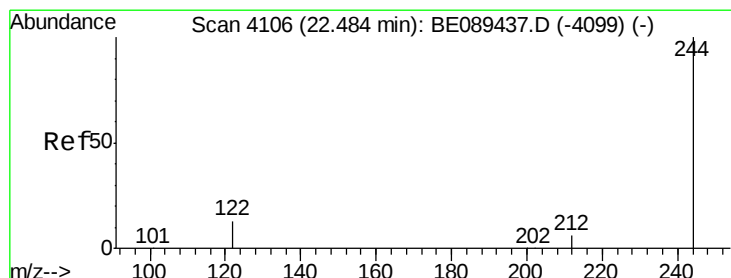
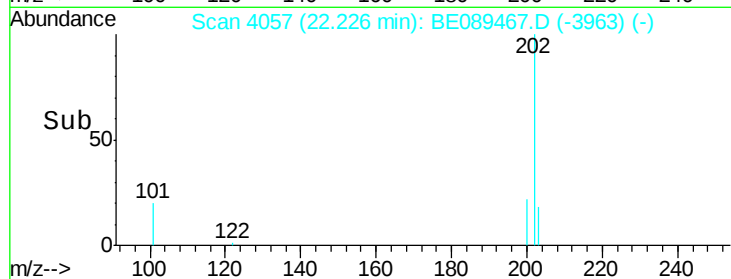
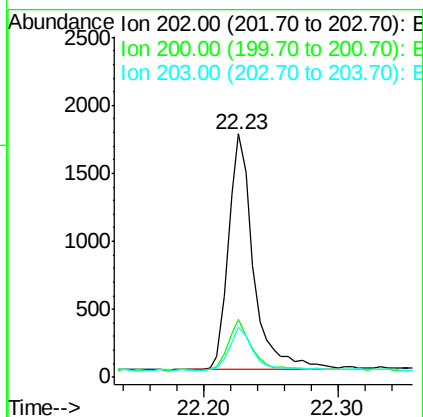
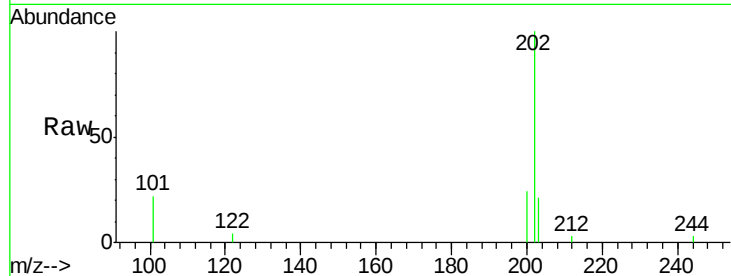




#17
 Pyrene
 Concen: 0.06 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. -0.00 min
 Lab File: BE089467.D
 Acq: 31 Jan 2015 12:13

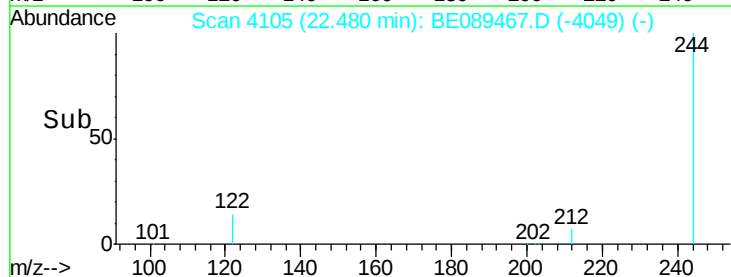
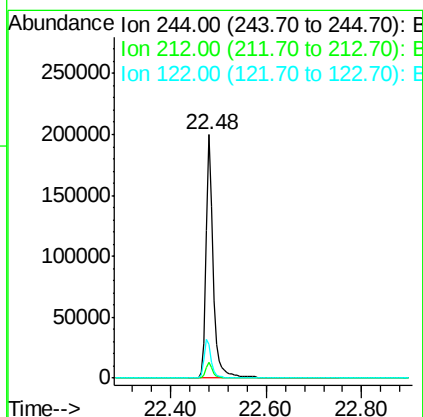
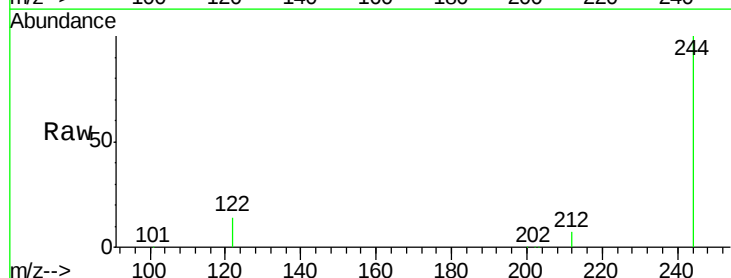
Instrument :
 BNA_E
 ClientSampleId :

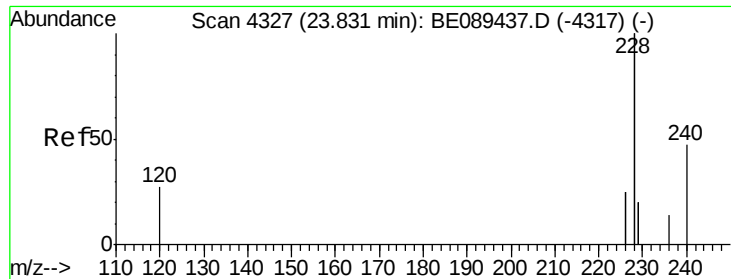
Tgt Ion: 202 Resp: 2246
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.2 24.4
 203 18.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.19 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089467.D
 Acq: 31 Jan 2015 12:13

Tgt Ion: 244 Resp: 207089
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.0 7.6
 122 13.8 10.2 15.4





#19

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.83 min Scan# 4327

Delta R.T. 0.00 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :

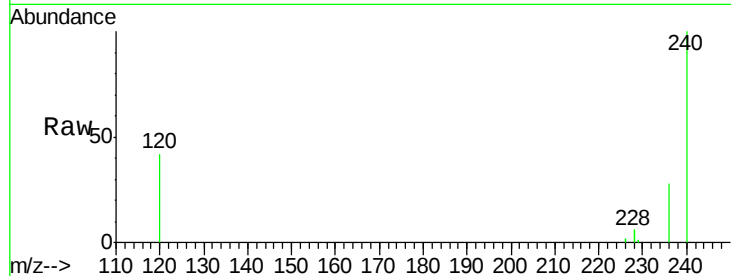
Tgt Ion:228 Resp: 6651

Ion Ratio Lower Upper

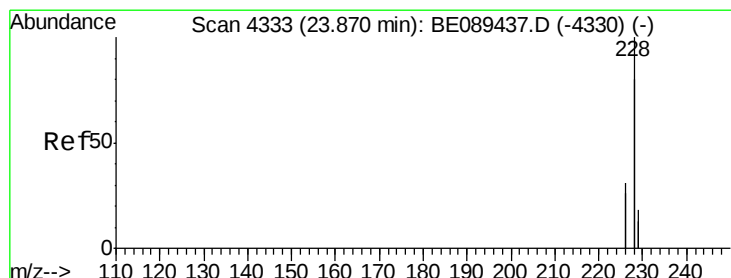
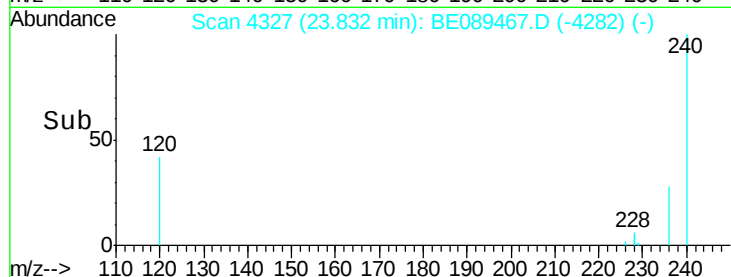
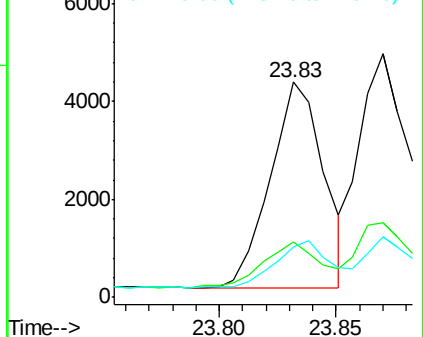
228 100

226 25.9 20.0 30.0

229 23.4 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 0.07 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

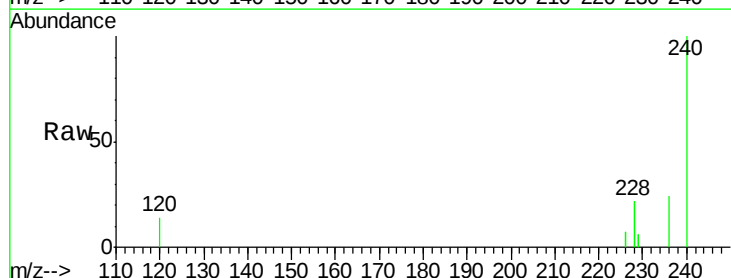
Tgt Ion:228 Resp: 10517

Ion Ratio Lower Upper

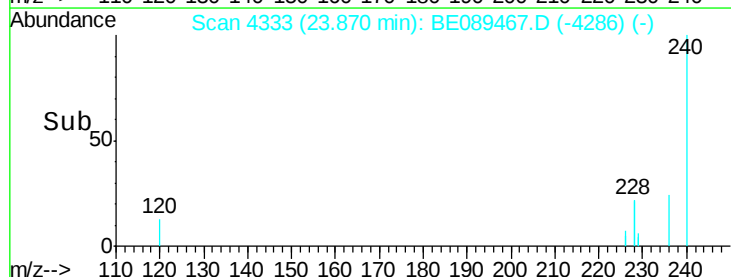
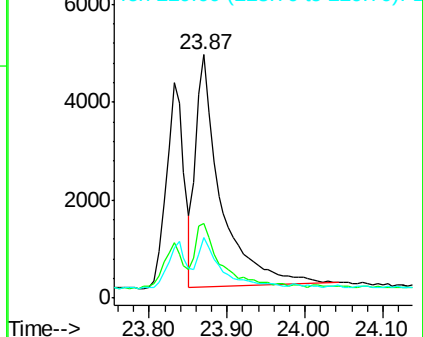
228 100

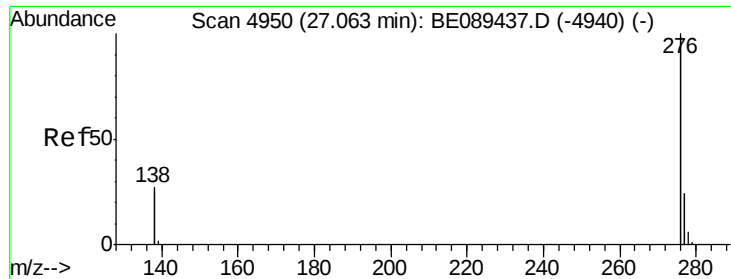
226 30.5 24.5 36.7

229 24.9 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

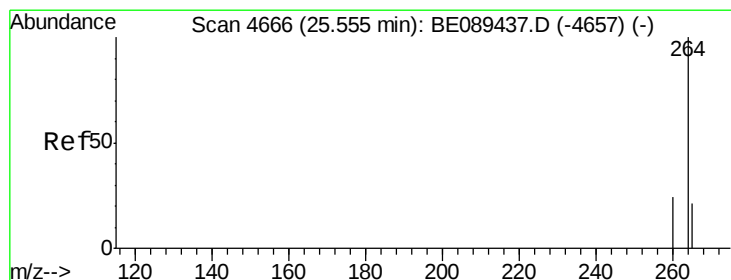
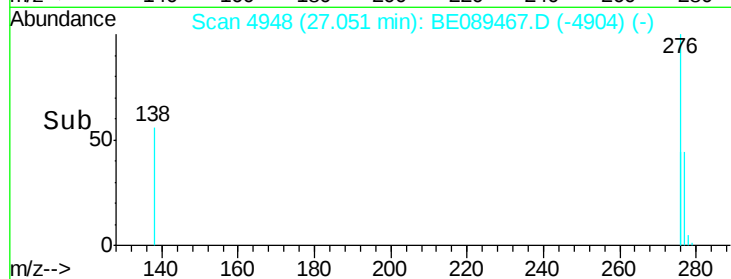
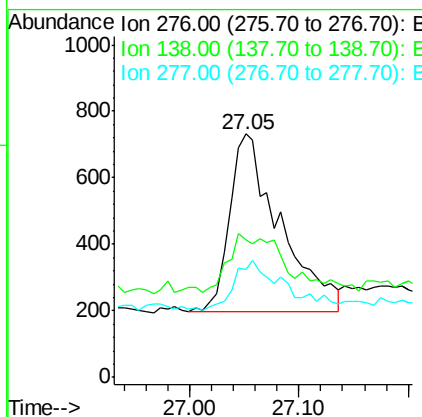
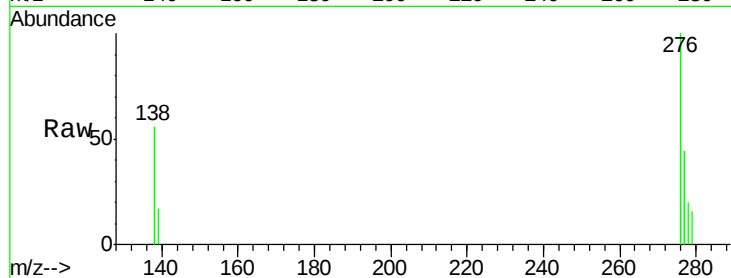




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.01 ng
 RT: 27.05 min Scan# 4948
 Delta R.T. -0.01 min
 Lab File: BE089467.D
 Acq: 31 Jan 2015 12:13

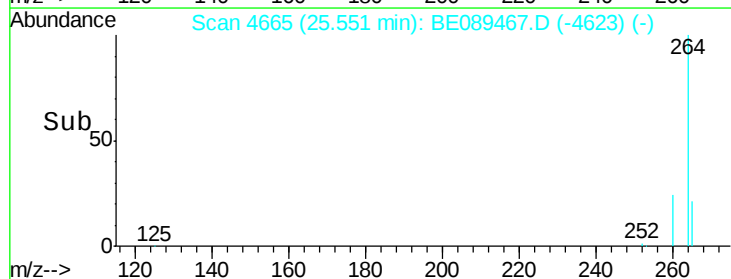
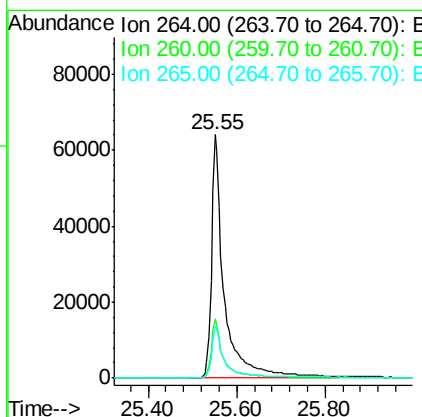
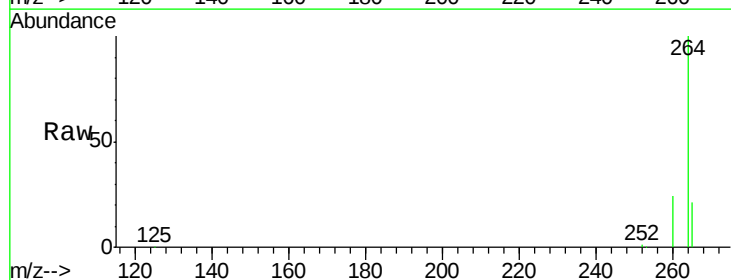
Instrument :
 BNA_E
 ClientSampleId :

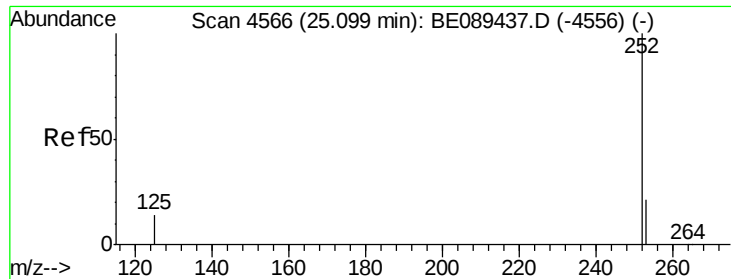
Tgt Ion: 276 Resp: 1710
 Ion Ratio Lower Upper
 276 100
 138 16.3 25.4 38.0#
 277 25.1 19.8 29.6



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.55 min Scan# 4665
 Delta R.T. -0.00 min
 Lab File: BE089467.D
 Acq: 31 Jan 2015 12:13

Tgt Ion: 264 Resp: 129426
 Ion Ratio Lower Upper
 264 100
 260 24.5 19.4 29.0
 265 21.0 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 25.10 min Scan# 4565

Delta R.T. -0.00 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :

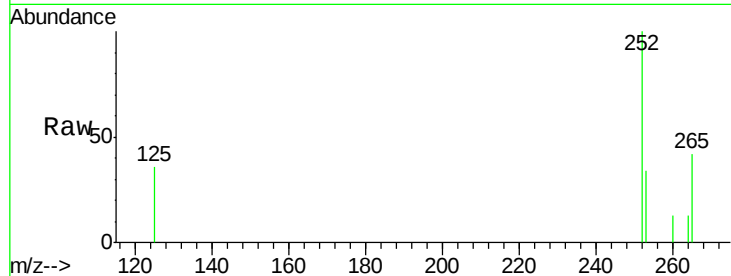
Tgt Ion:252 Resp: 407

Ion Ratio Lower Upper

252 100

253 34.3 17.0 25.6#

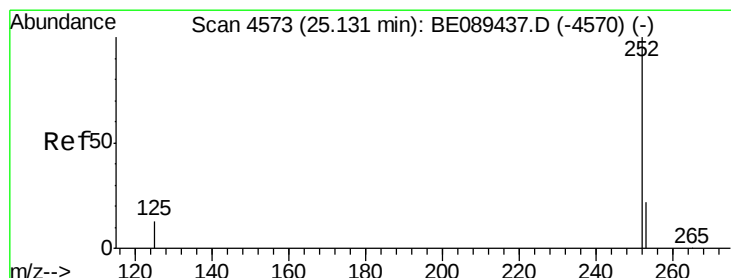
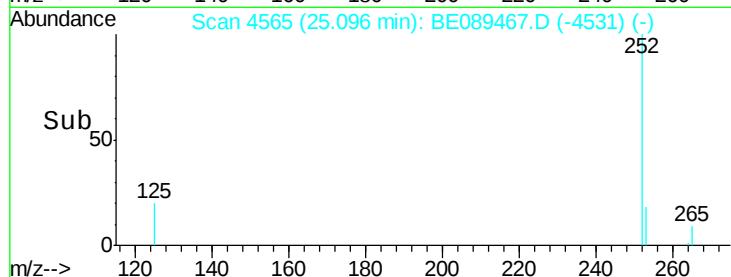
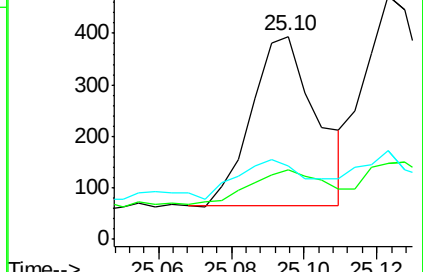
125 36.3 11.4 17.0#



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: 0.02 ng

RT: 25.12 min Scan# 4571

Delta R.T. -0.01 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

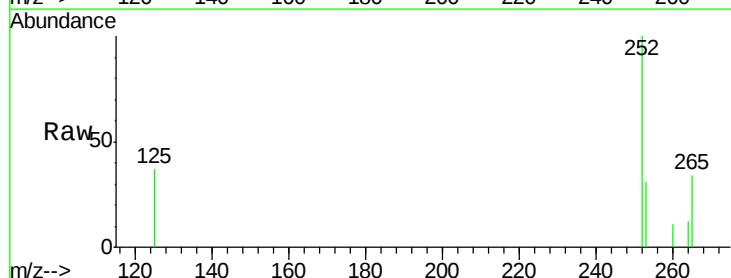
Tgt Ion:252 Resp: 613

Ion Ratio Lower Upper

252 100

253 31.3 17.4 26.2#

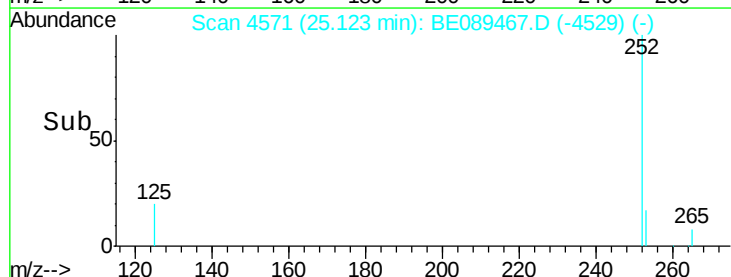
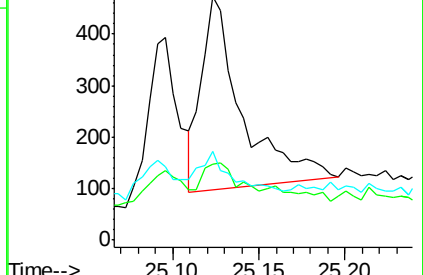
125 36.6 10.9 16.3#

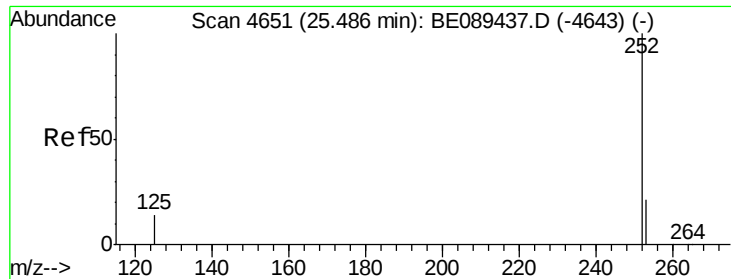


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.14 ng

RT: 25.47 min Scan# 4648

Delta R.T. -0.01 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :

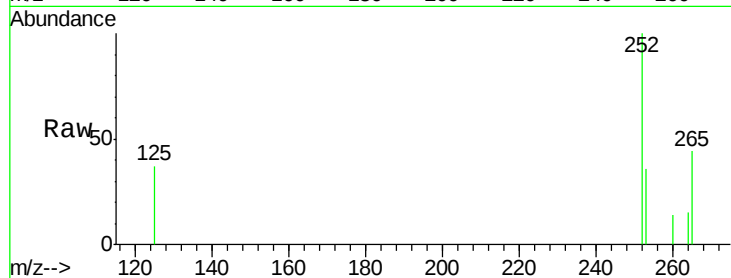
Tgt Ion: 252 Resp: 434

Ion Ratio Lower Upper

252 100

253 35.6 17.3 25.9#

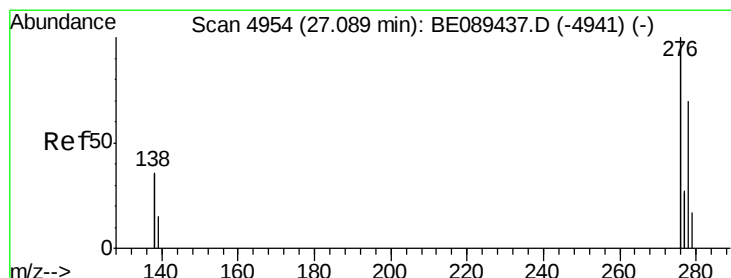
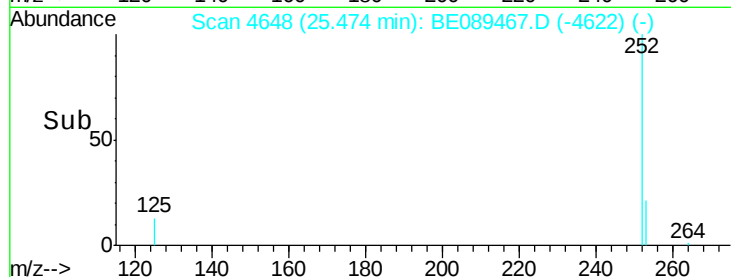
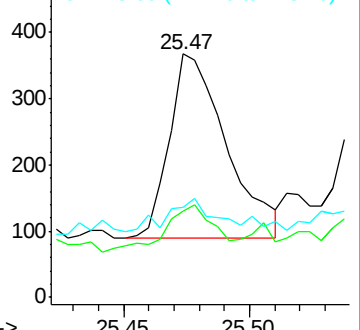
125 37.0 12.0 18.0#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 27.08 min Scan# 4953

Delta R.T. -0.01 min

Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

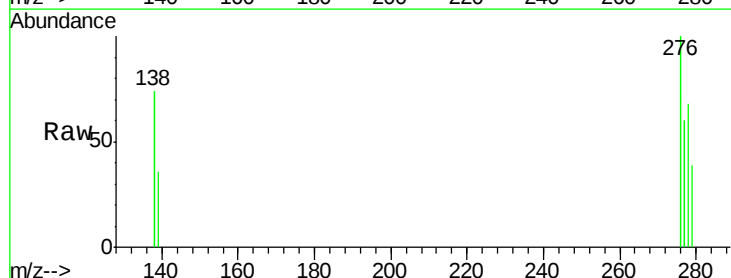
Tgt Ion: 278 Resp: 327

Ion Ratio Lower Upper

278 100

139 52.7 17.0 25.4#

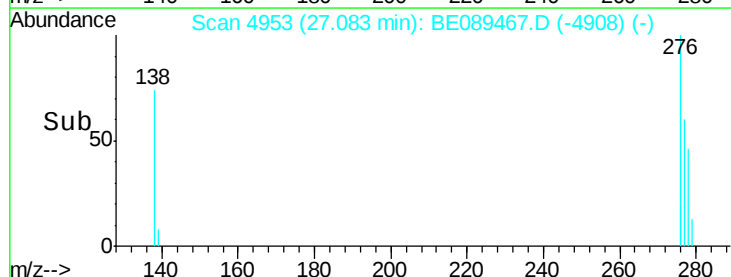
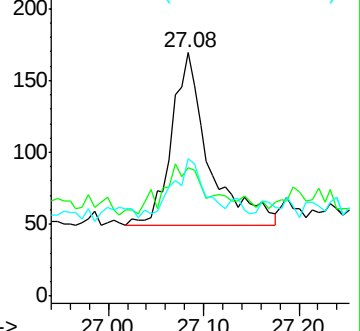
279 56.8 19.1 28.7#

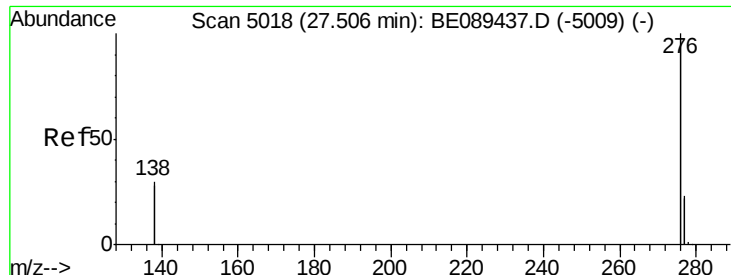


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.51 min Scan# 5018

Delta R.T. 0.00 min

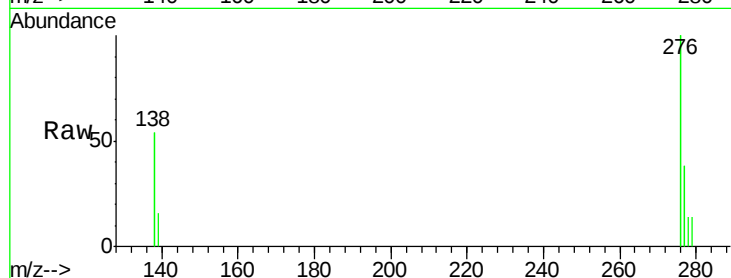
Lab File: BE089467.D

Acq: 31 Jan 2015 12:13

Instrument :

BNA_E

ClientSampleId :



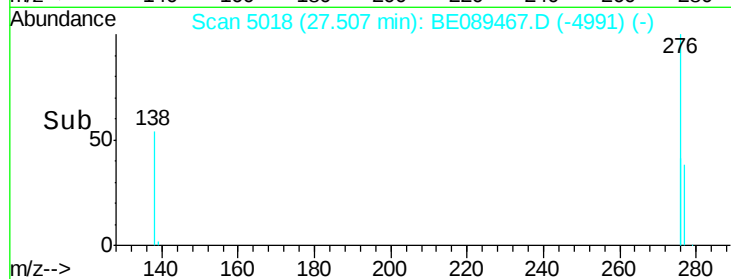
Tgt Ion: 276 Resp: 2369

Ion Ratio Lower Upper

276 100

277 38.2 18.4 27.6#

138 54.0 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

