

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089475.D
 Acq On : 31 Jan 2015 18:44
 Operator : TP/IZ
 Sample : MDL-07-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 03:25:23 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	47159	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	193839	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	97498	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	159175	5.00	ng	0.00
16) Chrysene-d12	23.84	240	115628	5.00	ng	0.00
22) Perylene-d12	25.56	264	90176	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	118902	9.26	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	201399	7.84	ng	0.00
18) Terphenyl-d14	22.48	244	173571	10.02	ng	0.00

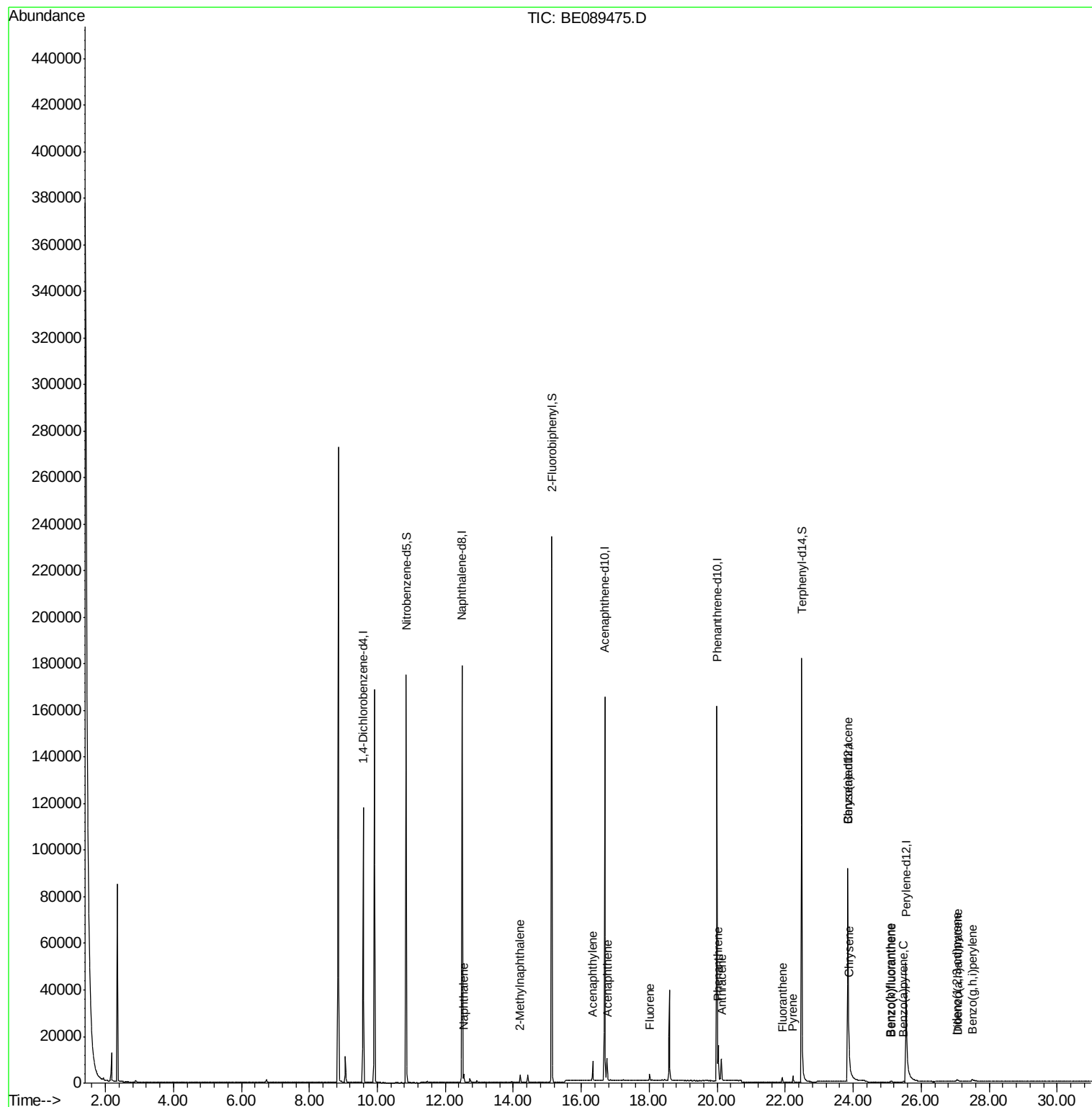
Target Compounds						Qvalue
4) Naphthalene	12.54	128	3674	0.08	ng	96
5) 2-Methylnaphthalene	14.20	142	2082	0.08	ng	94
8) Acenaphthylene	16.34	152	11827	0.07	ng	100
9) Acenaphthene	16.76	154	2022	0.08	ng	94
10) Fluorene	18.00	166	2132	0.07	ng	# 97
12) Pentachlorophenol	19.66	266	165	Below Cal		# 72
13) Phenanthrene	20.03	178	13957	0.09	ng	98
14) Anthracene	20.12	178	10391	0.07	ng	99
15) Fluoranthene	21.91	202	2234	0.07	ng	99
17) Pyrene	22.23	202	2480	0.08	ng	95
19) Benzo(a)anthracene	23.84	228	5372	0.06	ng	# 90
20) Chrysene	23.87	228	10996	0.10	ng	# 94
21) Indeno(1,2,3-cd)pyrene	27.05	276	1264	0.01	ng	95
23) Benzo(b)fluoranthene	25.10	252	337	0.21	ng	# 52
24) Benzo(k)fluoranthene	25.12	252	375	0.02	ng	# 59
25) Benzo(a)pyrene	25.47	252	340	0.14	ng	# 43
26) Dibenzo(a,h)anthracene	27.08	278	248	0.14	ng	# 22
27) Benzo(g,h,i)perylene	27.50	276	1613	0.02	ng	# 47

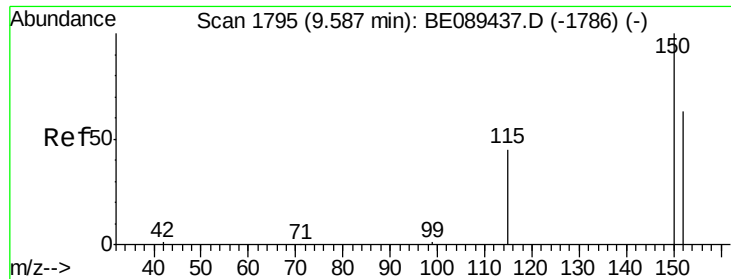
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

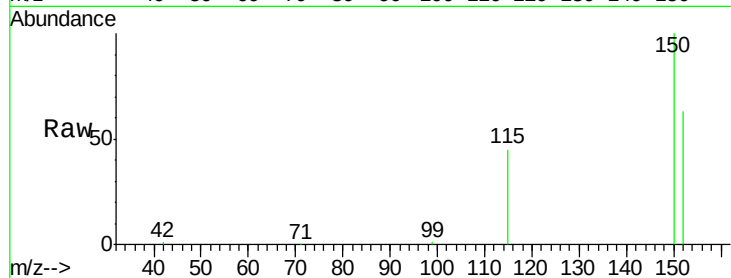
Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Instrument :

BNA_E

ClientSampleId :



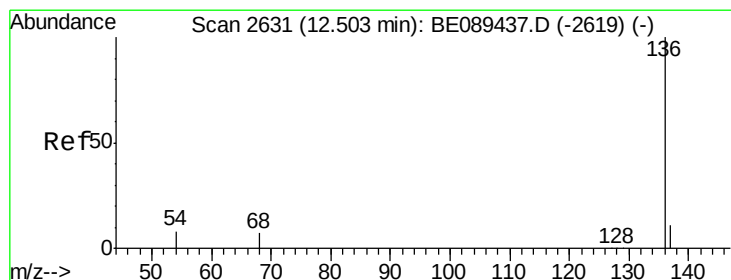
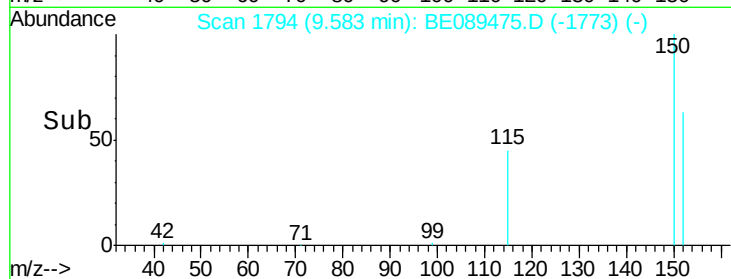
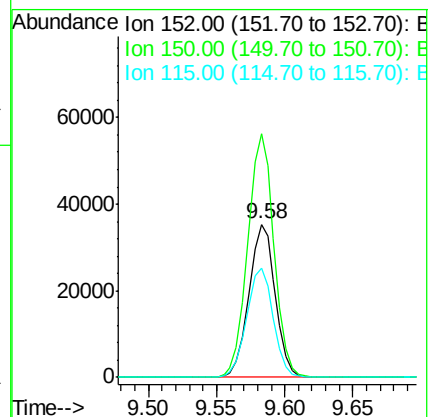
Tgt Ion:152 Resp: 47159

Ion Ratio Lower Upper

152 100

150 159.3 127.2 190.8

115 71.8 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.49 min Scan# 2629

Delta R.T. -0.01 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

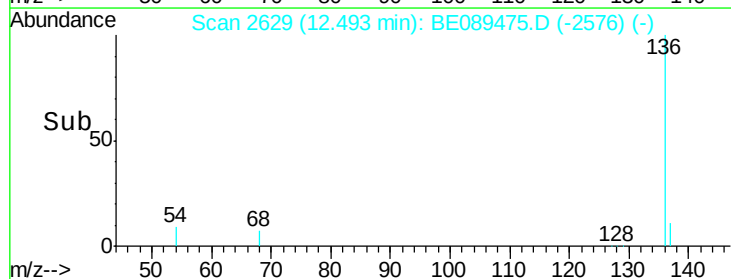
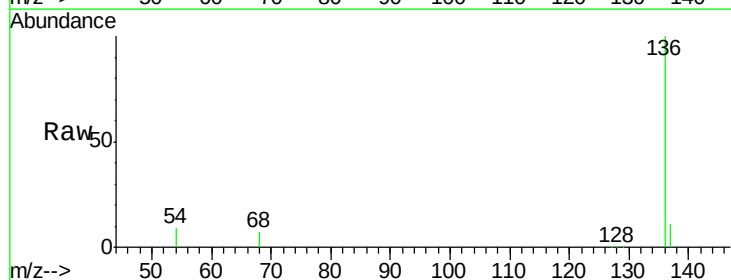
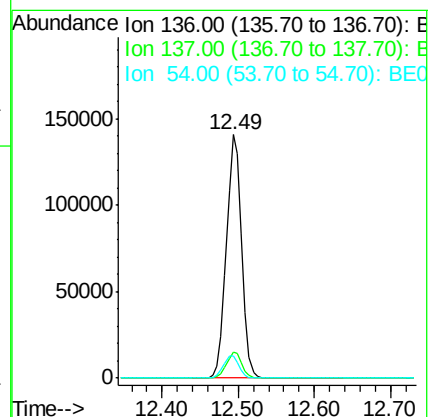
Tgt Ion:136 Resp: 193839

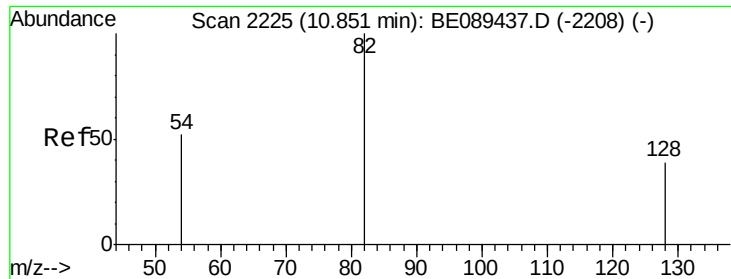
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 9.2 6.6 10.0





#3

Nitrobenzene-d5

Concen: 9.26 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.00 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Instrument :

BNA_E

ClientSampled :

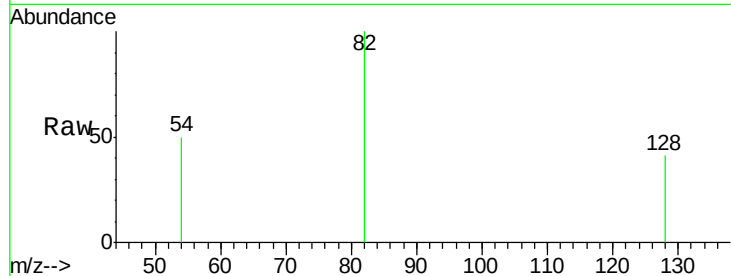
Tgt Ion: 82 Resp: 118902

Ion Ratio Lower Upper

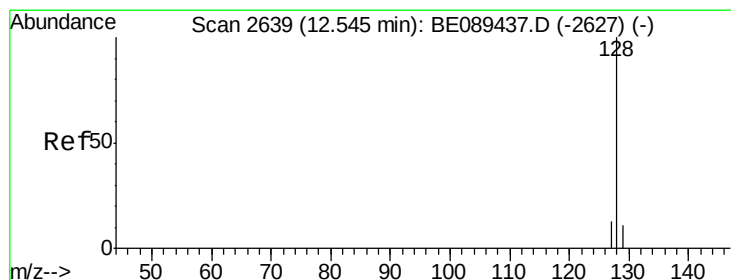
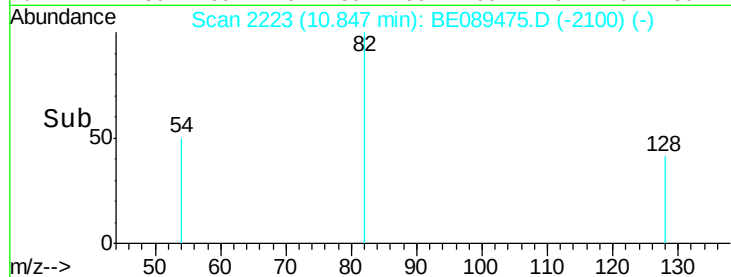
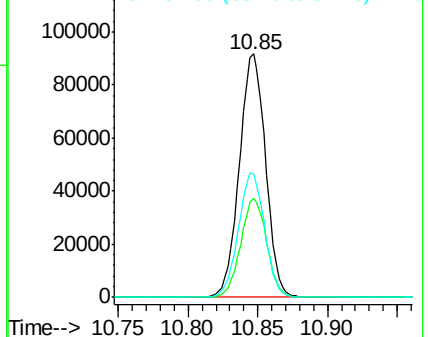
82 100

128 40.7 31.2 46.8

54 50.4 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.08 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

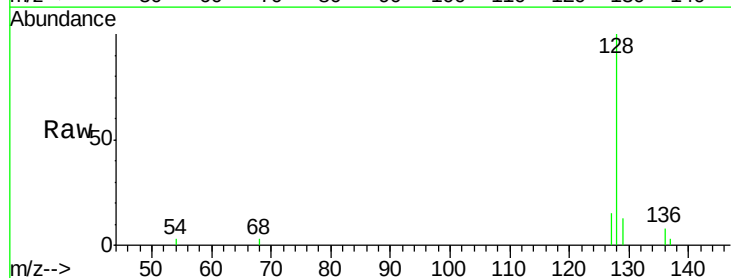
Tgt Ion: 128 Resp: 3674

Ion Ratio Lower Upper

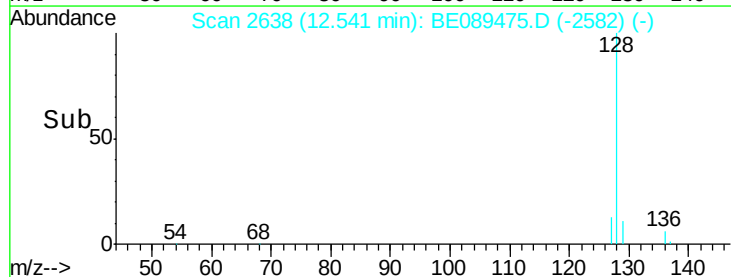
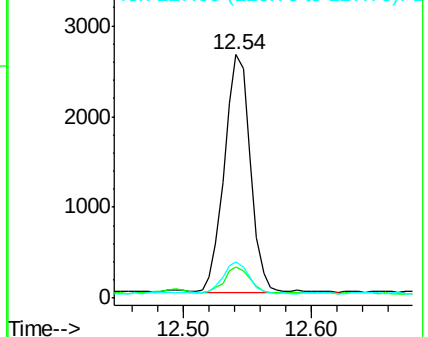
128 100

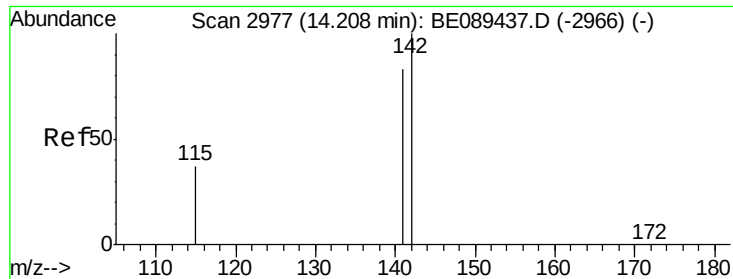
129 12.7 8.8 13.2

127 14.7 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.08 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089475.D

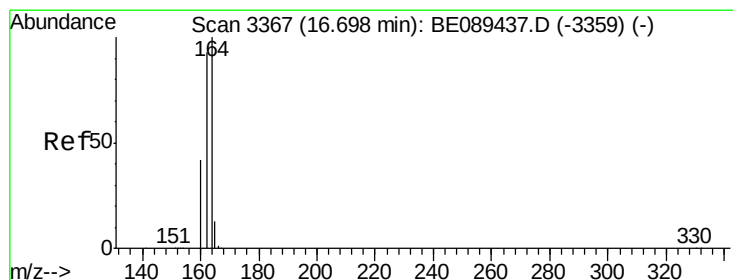
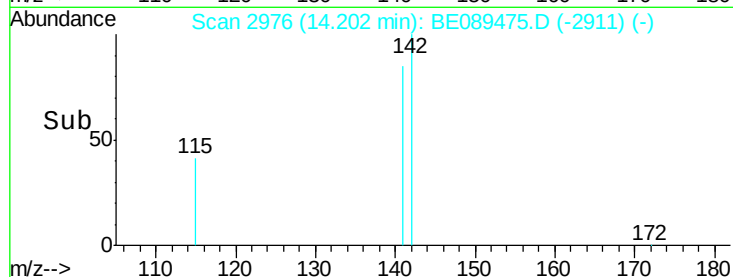
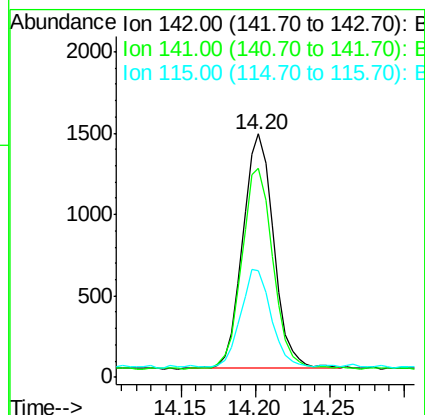
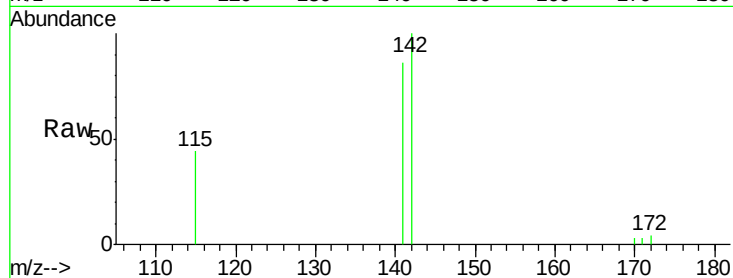
Acq: 31 Jan 2015 18:44

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	2082
Ion Ratio	Lower	Upper	
142	100		
141	85.7	66.1	99.1
115	44.0	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

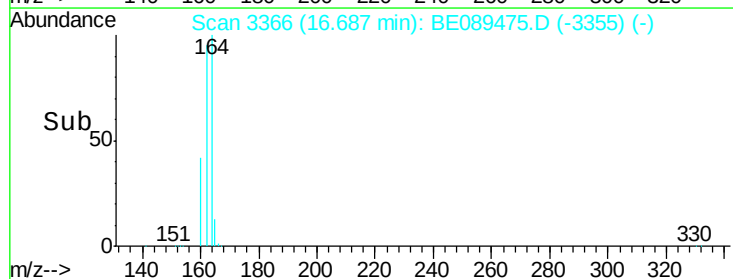
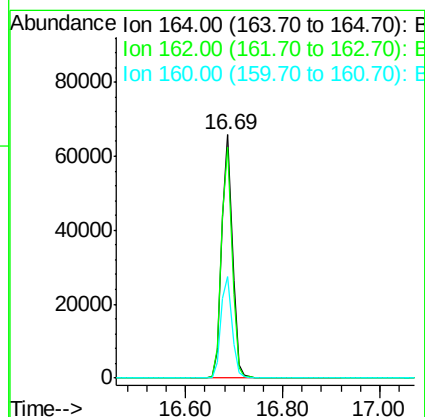
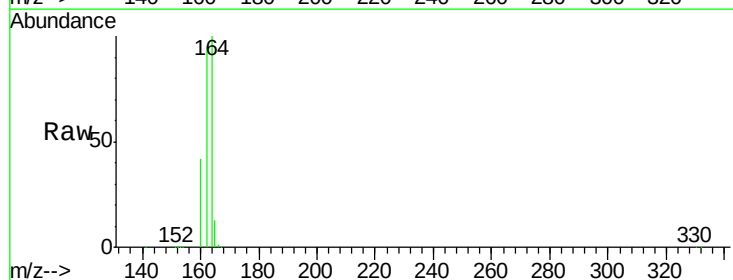
RT: 16.69 min Scan# 3366

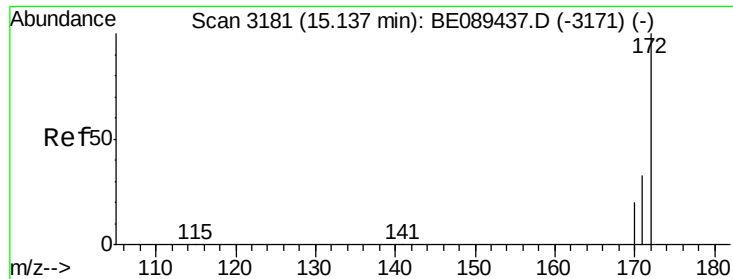
Delta R.T. -0.01 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Tgt Ion:	164	Resp:	97498
Ion Ratio	Lower	Upper	
164	100		
162	94.5	74.7	112.1
160	41.8	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.84 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Instrument :

BNA_E

ClientSampleId :

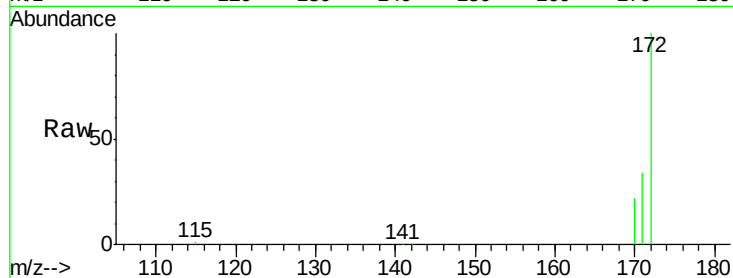
Tgt Ion:172 Resp: 201399

Ion Ratio Lower Upper

172 100

171 33.6 26.2 39.4

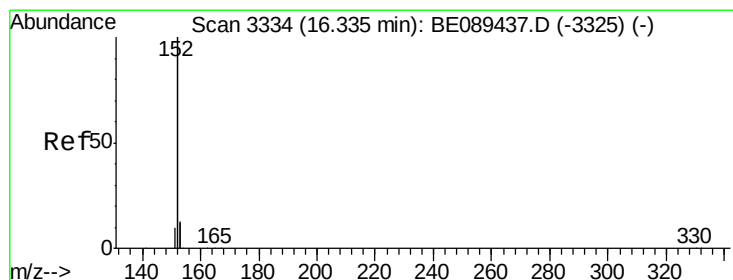
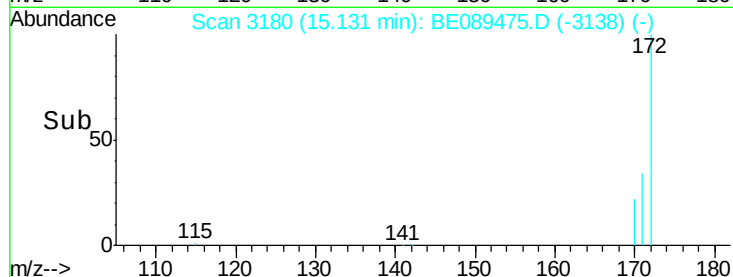
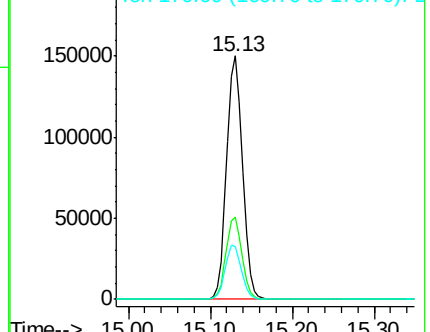
170 22.0 16.5 24.7



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: 0.07 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

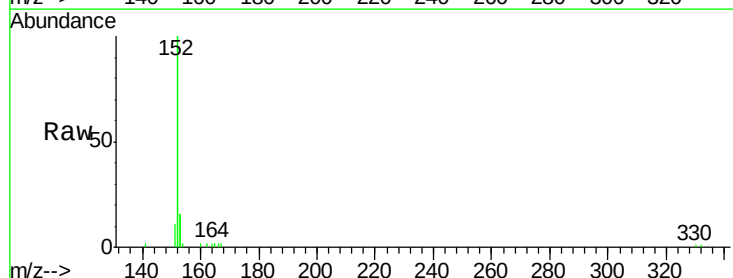
Tgt Ion:152 Resp: 11827

Ion Ratio Lower Upper

152 100

151 5.1 3.9 5.9

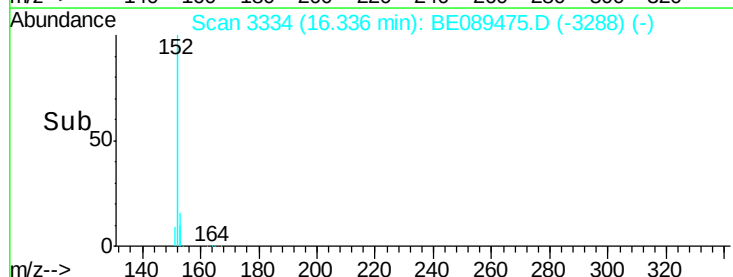
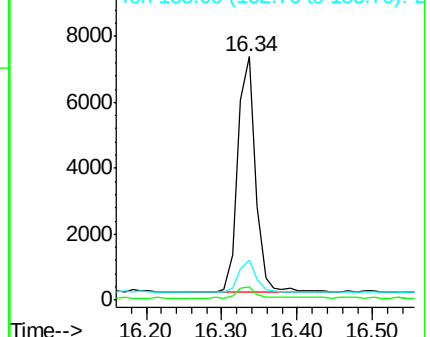
153 13.0 10.3 15.5

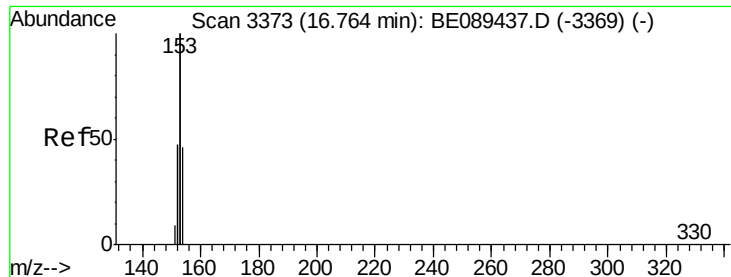


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.08 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Instrument :

BNA_E

ClientSampleId :

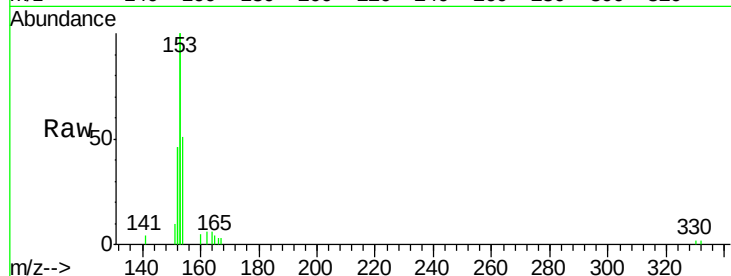
Tgt Ion:154 Resp: 2022

Ion Ratio Lower Upper

154 100

153 435.3 342.3 513.5

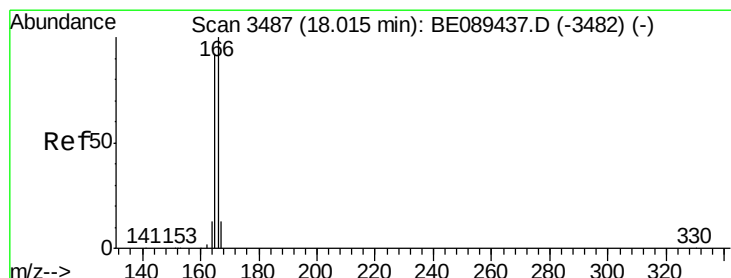
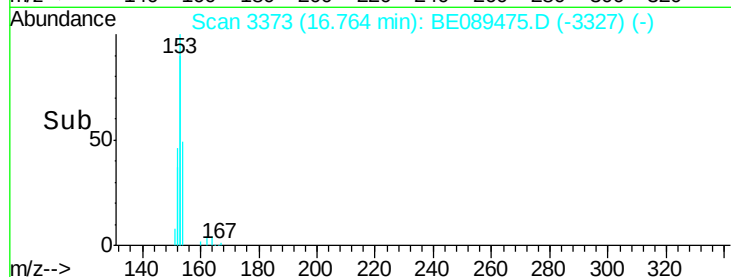
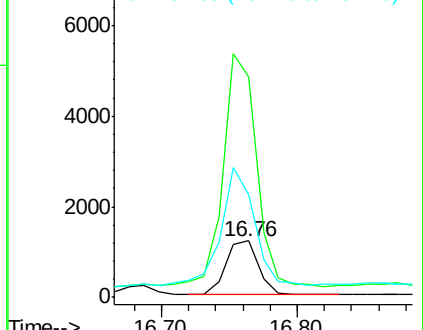
152 225.4 165.5 248.3



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: 0.07 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

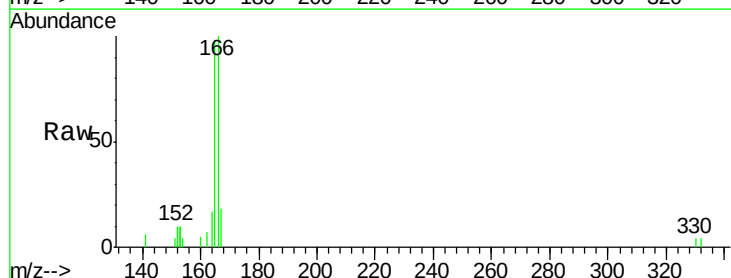
Tgt Ion:166 Resp: 2132

Ion Ratio Lower Upper

166 100

165 95.3 74.4 111.6

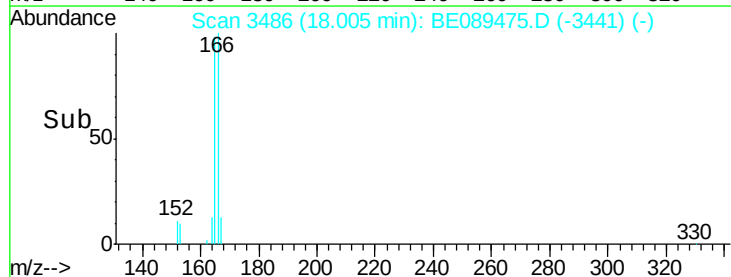
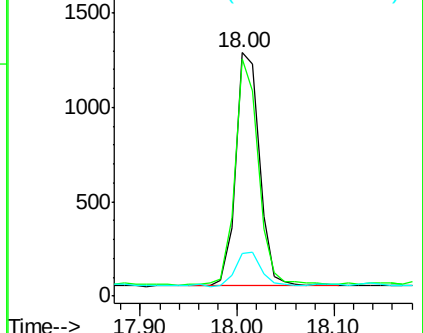
167 16.2 10.6 15.8#

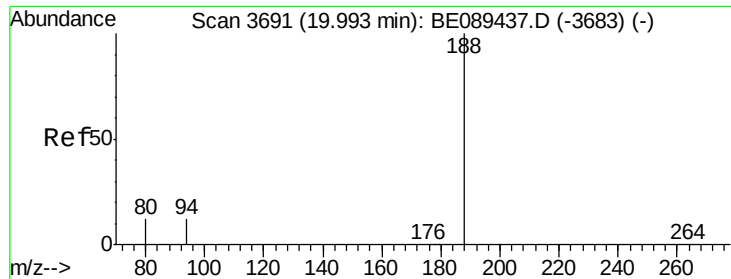


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

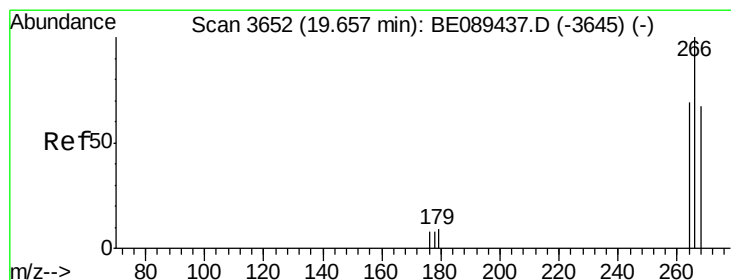
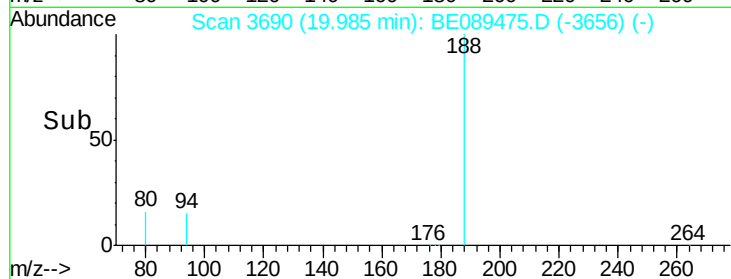
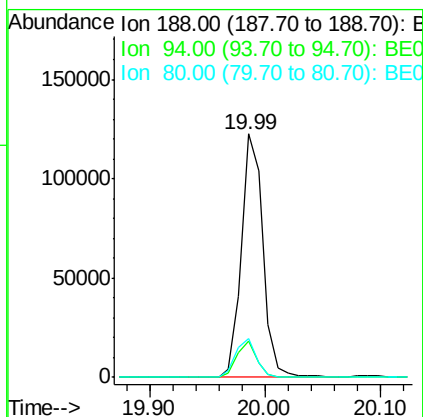
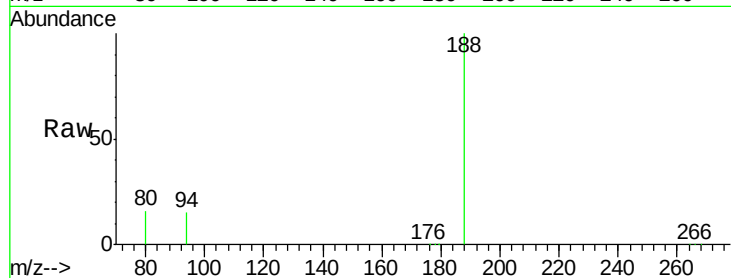




#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.99 min Scan# 3690
 Delta R.T. -0.01 min
 Lab File: BE089475.D
 Acq: 31 Jan 2015 18:44

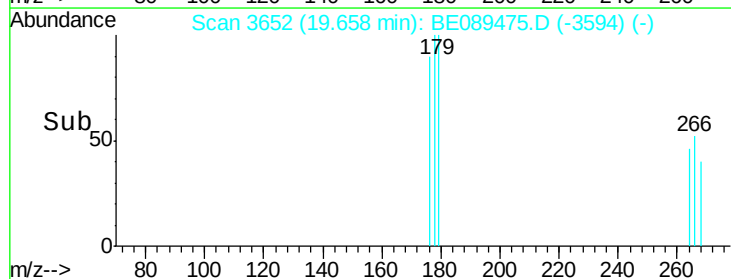
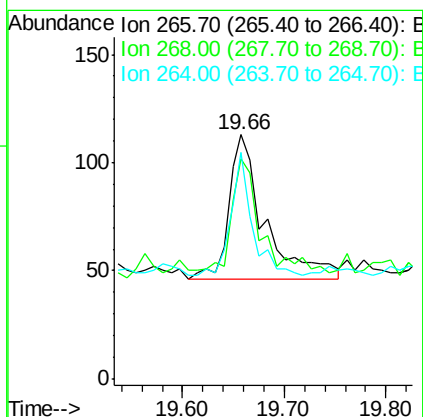
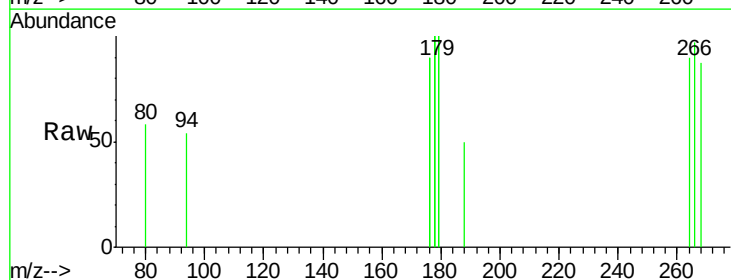
Instrument :
 BNA_E
 ClientSampleId :

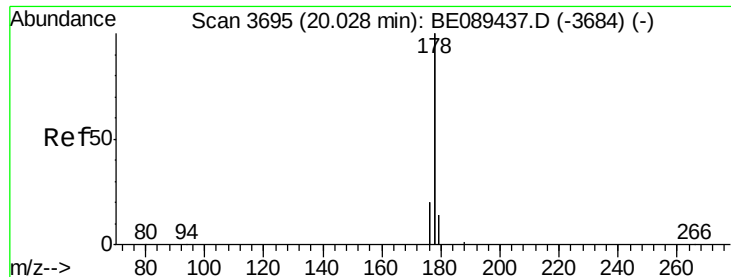
Tgt Ion:188 Resp: 159175
 Ion Ratio Lower Upper
 188 100
 94 14.9 9.4 14.0#
 80 15.9 9.3 13.9#



#12
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.66 min Scan# 3652
 Delta R.T. 0.00 min
 Lab File: BE089475.D
 Acq: 31 Jan 2015 18:44

Tgt Ion:266 Resp: 165
 Ion Ratio Lower Upper
 266 100
 268 90.3 54.2 81.4#
 264 92.9 56.2 84.2#

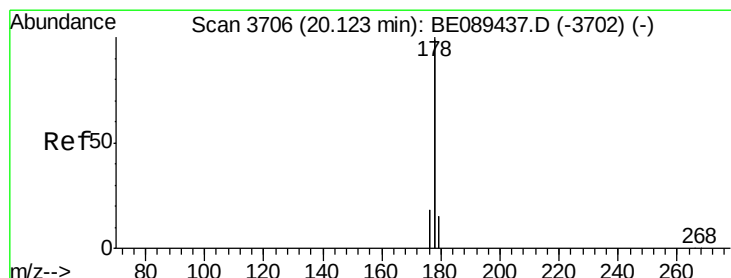
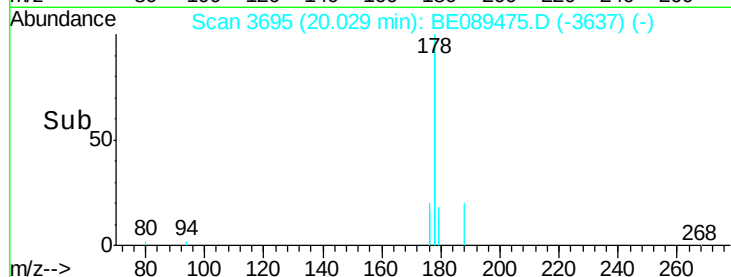
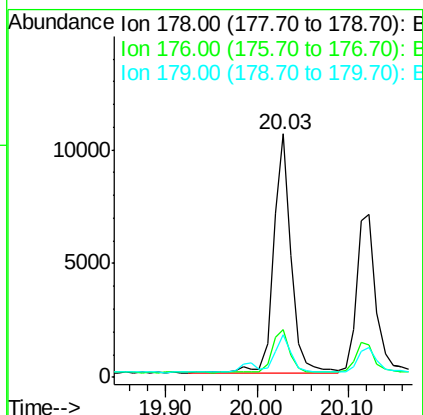
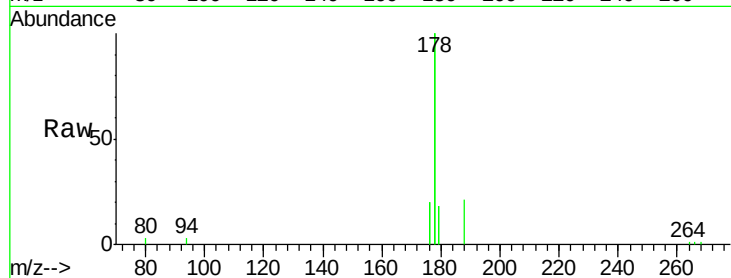




#13
Phenanthrene
Concen: 0.09 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089475.D
Acq: 31 Jan 2015 18:44

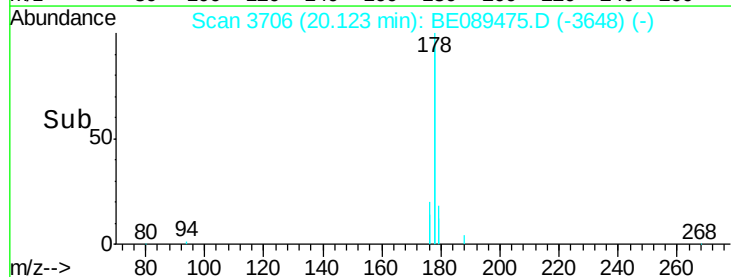
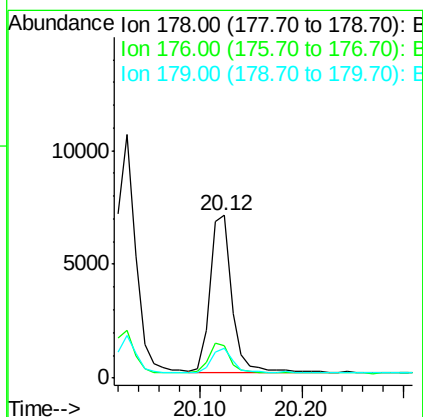
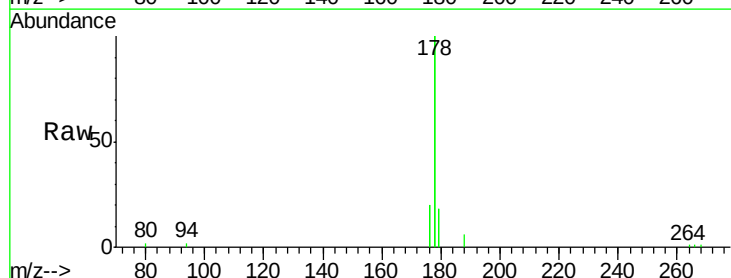
Instrument :
BNA_E
ClientSampleId :

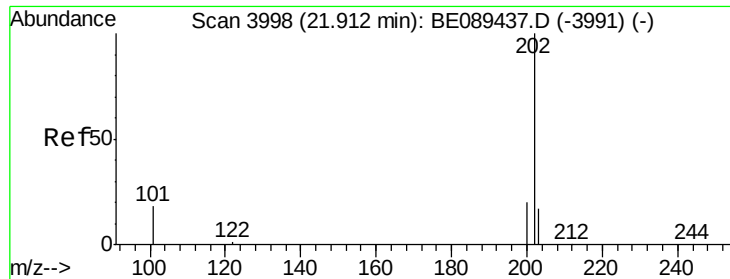
Tgt Ion:178 Resp: 13957
Ion Ratio Lower Upper
178 100
176 18.3 15.1 22.7
179 14.6 12.3 18.5



#14
Anthracene
Concen: 0.07 ng
RT: 20.12 min Scan# 3706
Delta R.T. 0.00 min
Lab File: BE089475.D
Acq: 31 Jan 2015 18:44

Tgt Ion:178 Resp: 10391
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 14.6 12.2 18.2

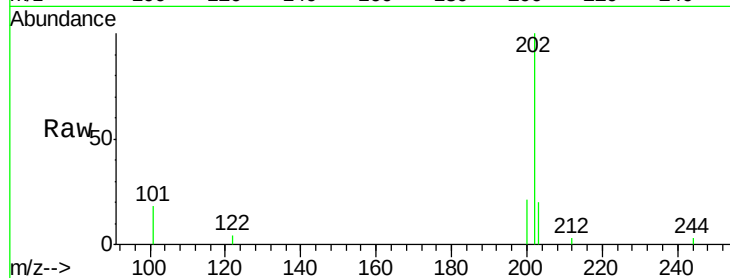




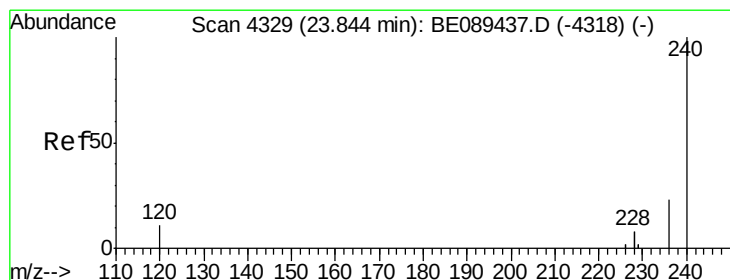
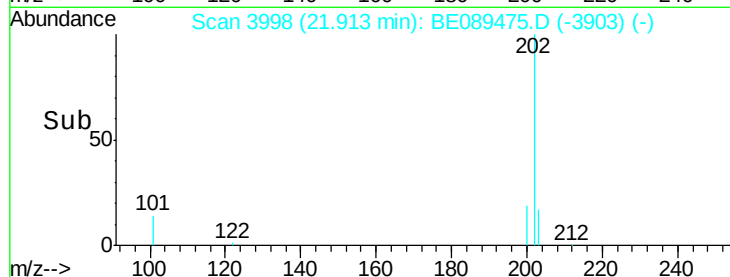
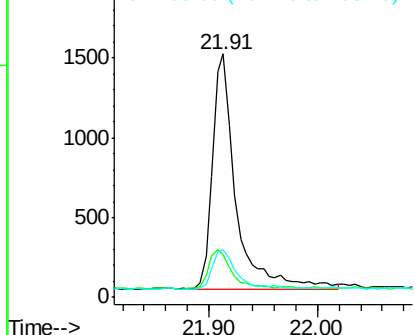
#15
 Fluoranthene
 Concen: 0.07 ng
 RT: 21.91 min Scan# 3998
 Delta R.T. 0.00 min
 Lab File: BE089475.D
 Acq: 31 Jan 2015 18:44

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 2234
 Ion Ratio Lower Upper
 202 100
 101 16.2 13.6 20.4
 203 17.0 13.8 20.6

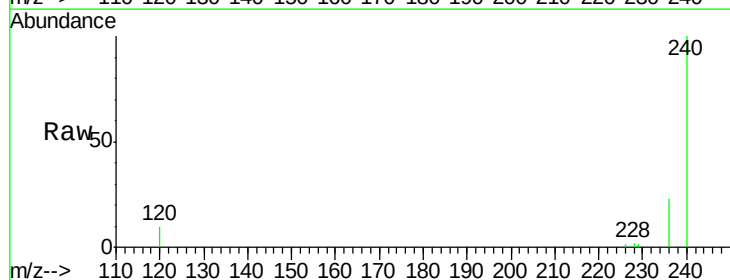


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

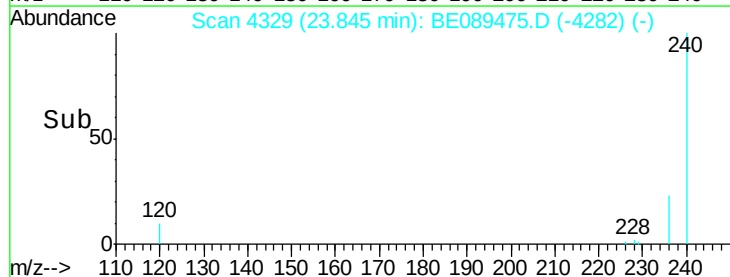
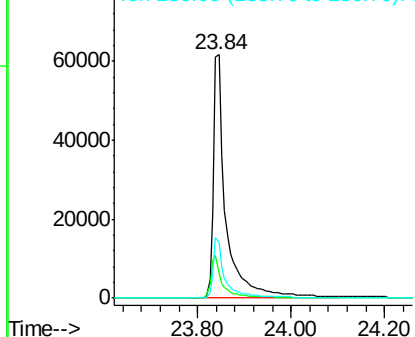


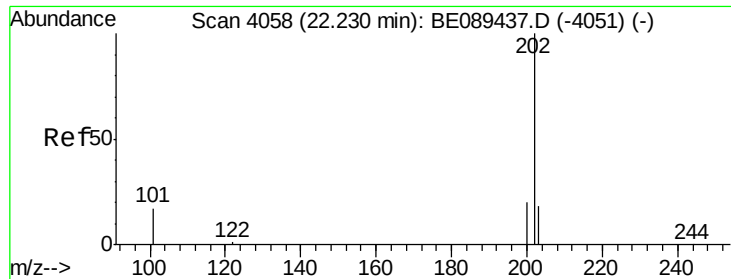
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4329
 Delta R.T. 0.00 min
 Lab File: BE089475.D
 Acq: 31 Jan 2015 18:44

Tgt Ion: 240 Resp: 115628
 Ion Ratio Lower Upper
 240 100
 120 10.3 8.6 13.0
 236 22.8 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

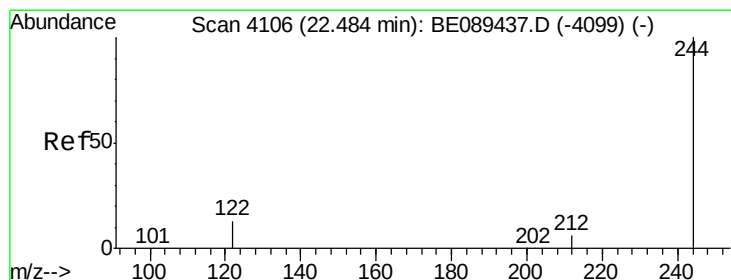
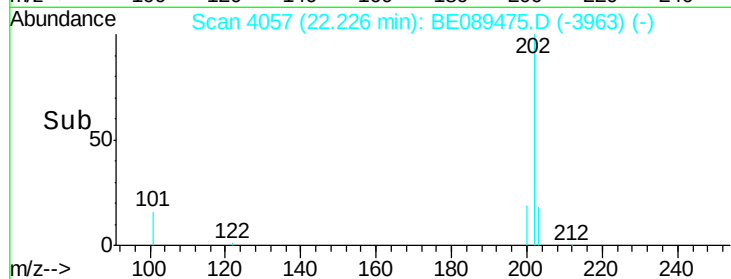
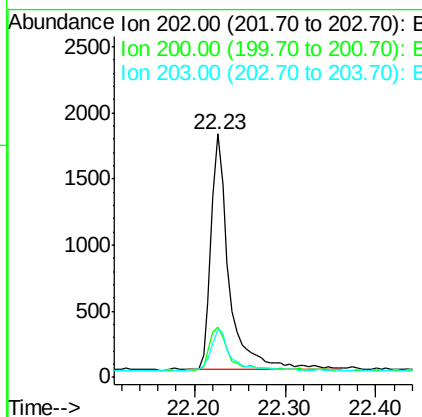
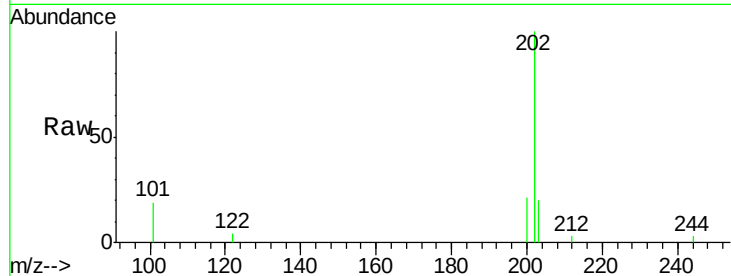




#17
 Pyrene
 Concen: 0.08 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. -0.00 min
 Lab File: BE089475.D
 Acq: 31 Jan 2015 18:44

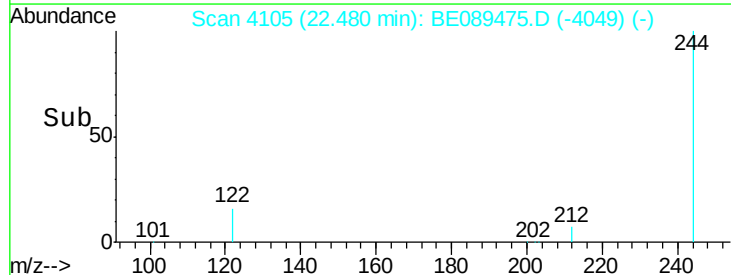
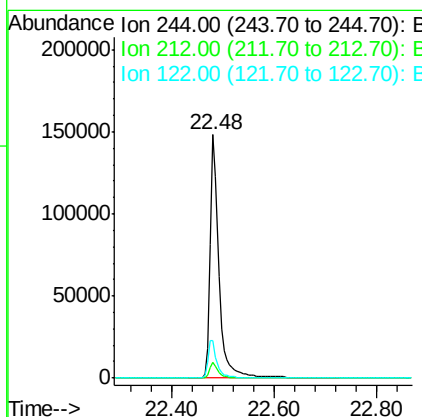
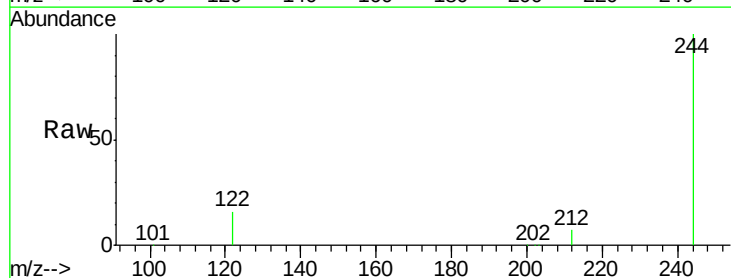
Instrument :
 BNA_E
 ClientSampleId :

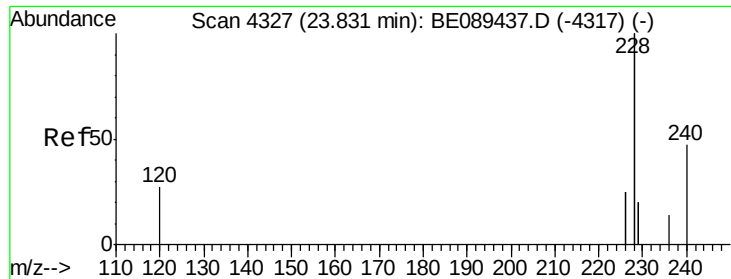
Tgt Ion: 202 Resp: 2480
 Ion Ratio Lower Upper
 202 100
 200 18.0 16.2 24.4
 203 19.3 13.8 20.8



#18
 Terphenyl-d14
 Concen: 10.02 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089475.D
 Acq: 31 Jan 2015 18:44

Tgt Ion: 244 Resp: 173571
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.0 7.6
 122 15.7 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.84 min Scan# 4328

Delta R.T. 0.01 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Instrument :

BNA_E

ClientSampleId :

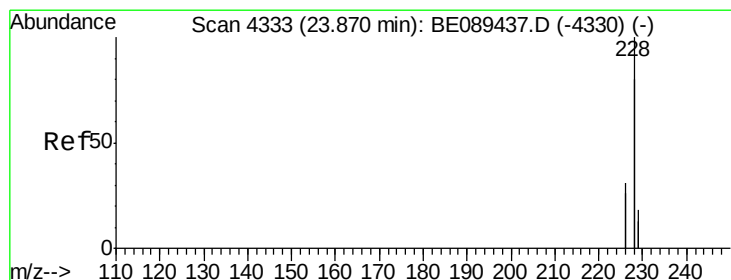
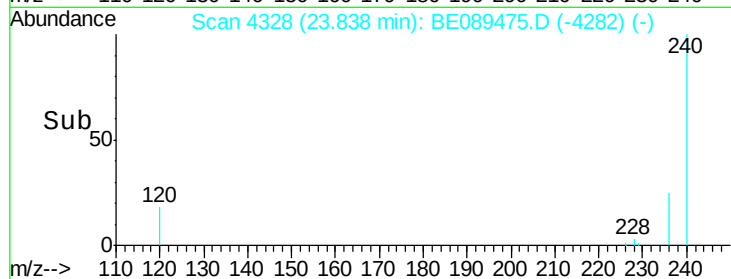
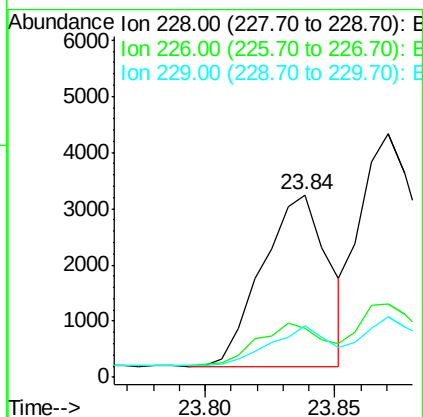
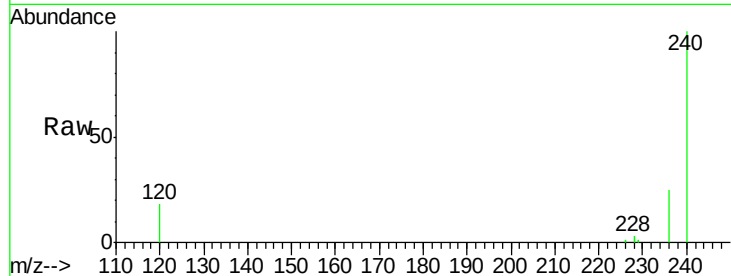
Tgt Ion:228 Resp: 5372

Ion Ratio Lower Upper

228 100

226 26.5 20.0 30.0

229 28.1 16.0 24.0#



#20

Chrysene

Concen: 0.10 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

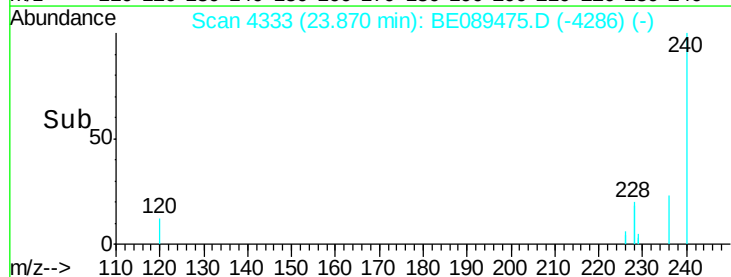
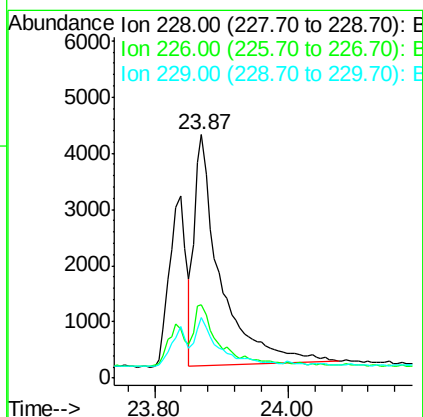
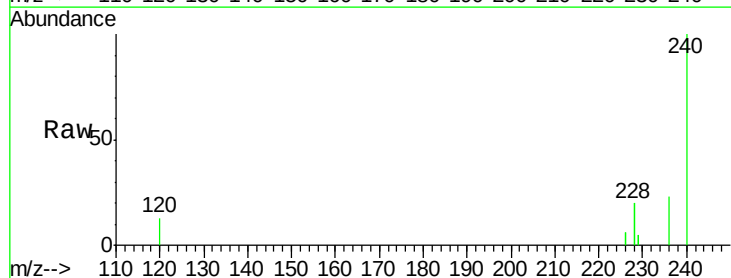
Tgt Ion:228 Resp: 10996

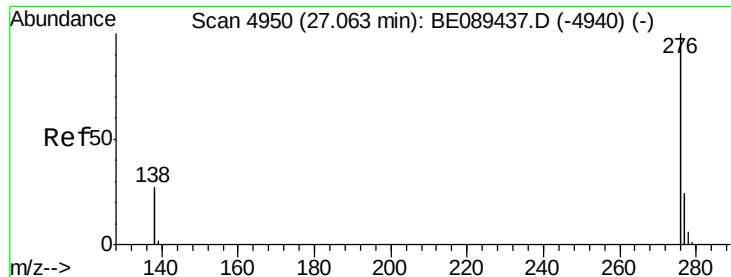
Ion Ratio Lower Upper

228 100

226 30.2 24.5 36.7

229 24.7 14.1 21.1#





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.01 ng

RT: 27.05 min Scan# 4948

Delta R.T. -0.01 min

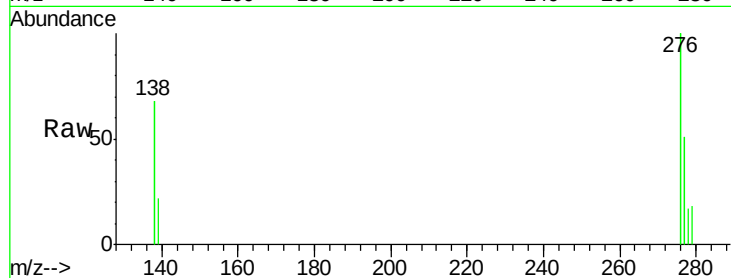
Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Instrument :

BNA_E

ClientSampleId :



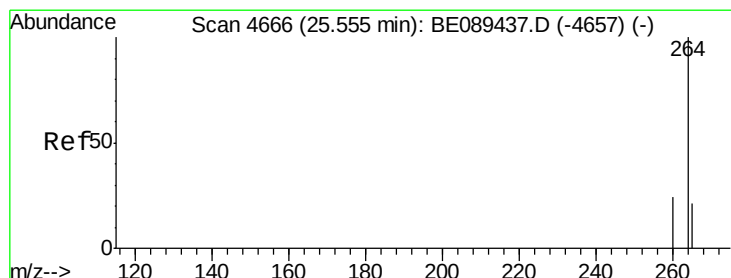
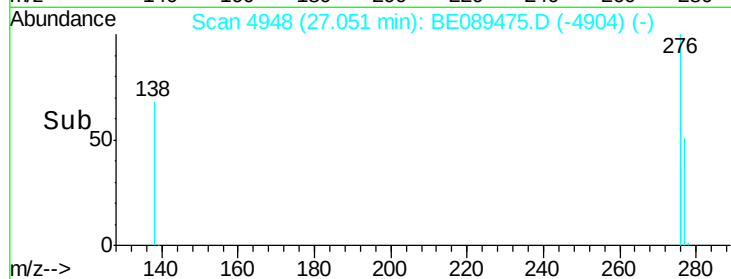
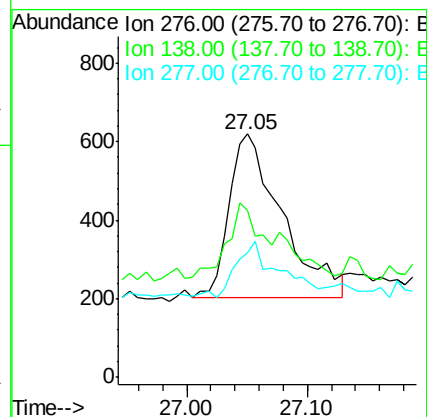
Tgt Ion:276 Resp: 1264

Ion Ratio Lower Upper

276 100

138 29.0 25.4 38.0

277 26.9 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.56 min Scan# 4666

Delta R.T. 0.00 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

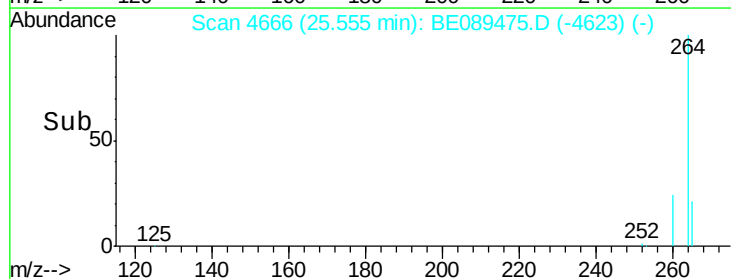
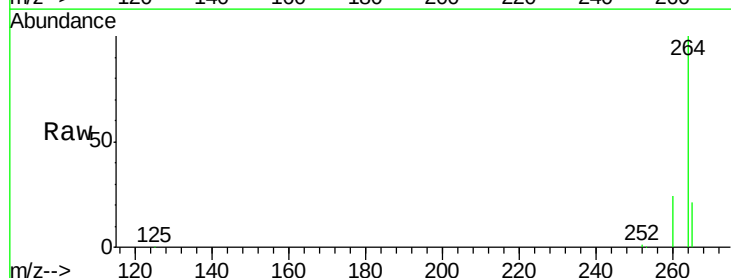
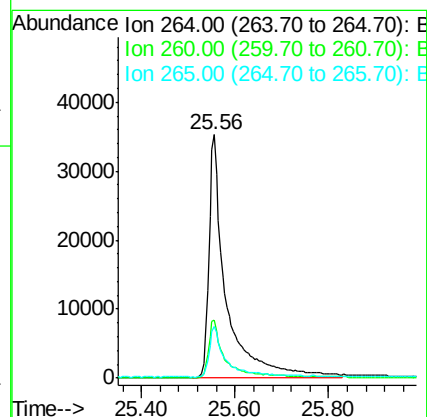
Tgt Ion:264 Resp: 90176

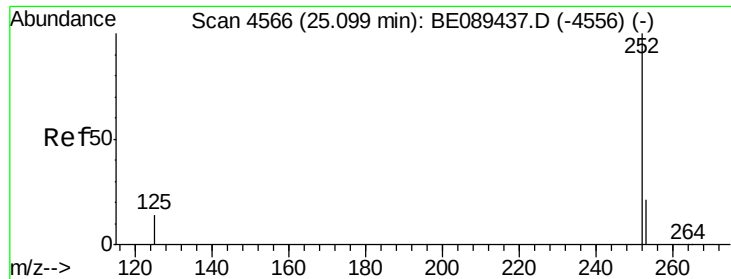
Ion Ratio Lower Upper

264 100

260 23.9 19.4 29.0

265 21.5 17.0 25.6

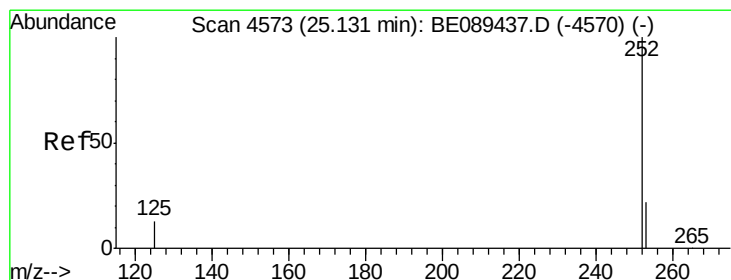
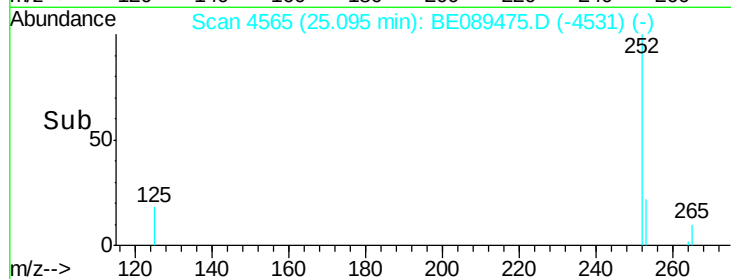
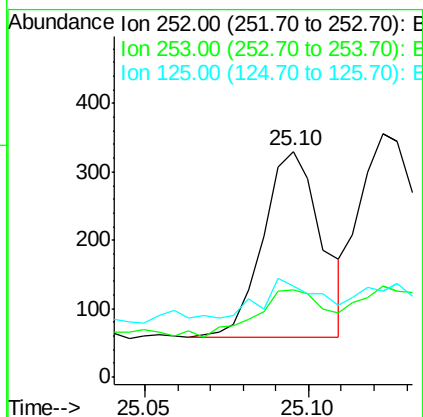
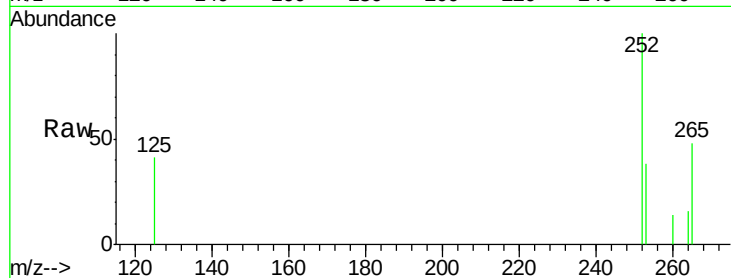




#23
Benzo(b)fluoranthene
Concen: 0.21 ng
RT: 25.10 min Scan# 4565
Delta R.T. -0.00 min
Lab File: BE089475.D
Acq: 31 Jan 2015 18:44

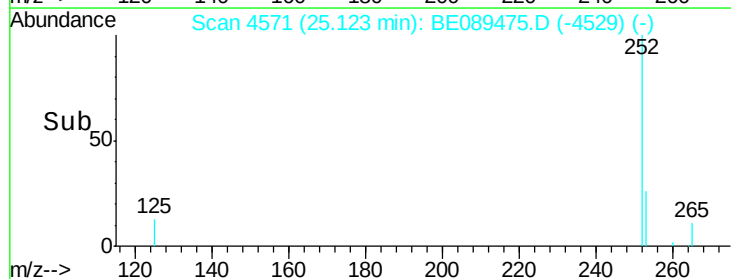
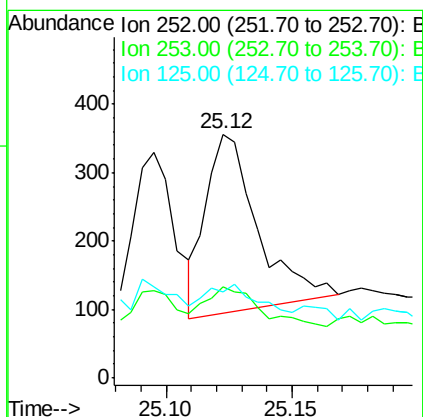
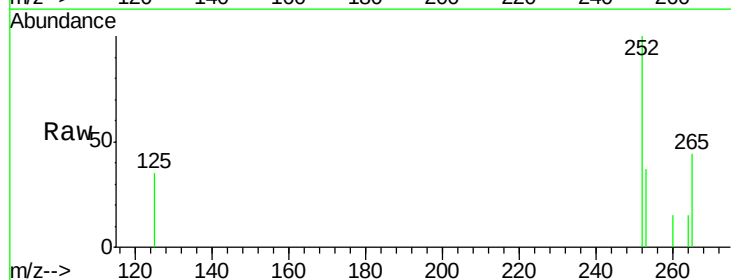
Instrument :
BNA_E
ClientSampleId :

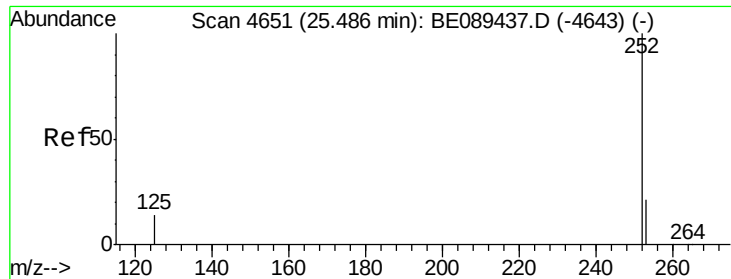
Tgt Ion: 252 Resp: 337
Ion Ratio Lower Upper
252 100
253 38.5 17.0 25.6#
125 40.6 11.4 17.0#



#24
Benzo(k)fluoranthene
Concen: 0.02 ng
RT: 25.12 min Scan# 4571
Delta R.T. -0.01 min
Lab File: BE089475.D
Acq: 31 Jan 2015 18:44

Tgt Ion: 252 Resp: 375
Ion Ratio Lower Upper
252 100
253 37.4 17.4 26.2#
125 35.4 10.9 16.3#





#25

Benzo(a)pyrene

Concen: 0.14 ng

RT: 25.47 min Scan# 4648

Delta R.T. -0.01 min

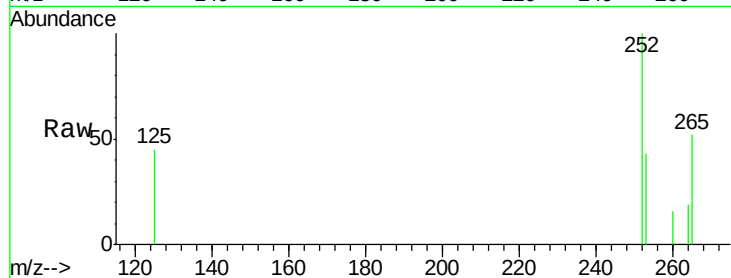
Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

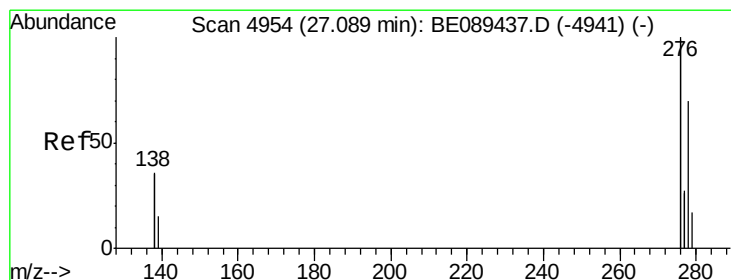
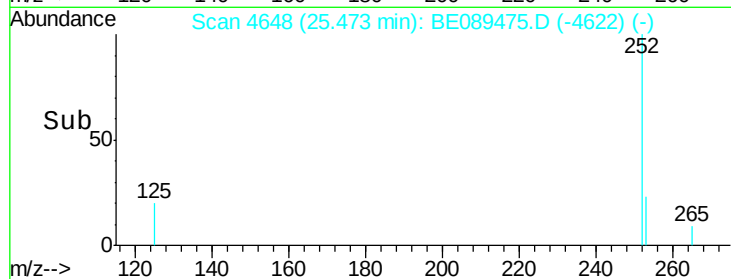
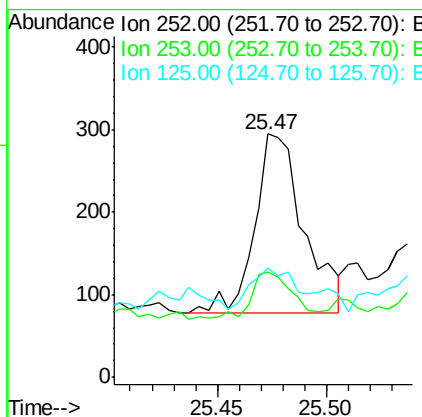
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	252	Resp:	340
Ion	Ratio	Lower	Upper
252	100		
253	43.4	17.3	25.9#
125	45.1	12.0	18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

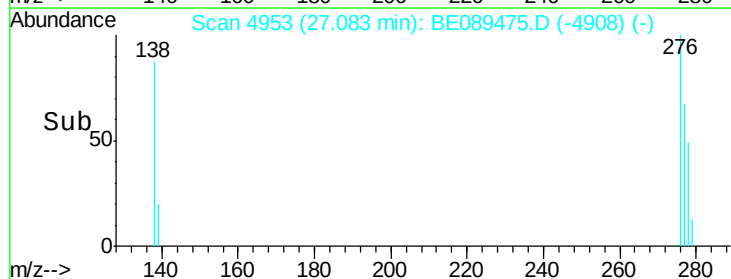
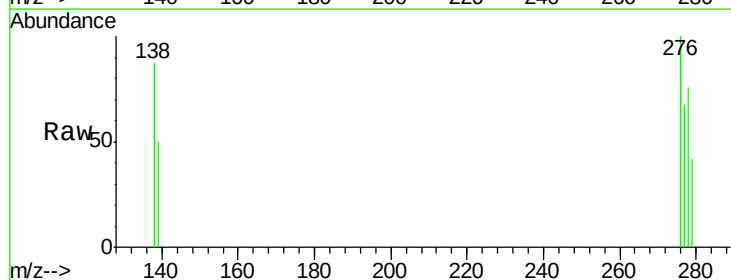
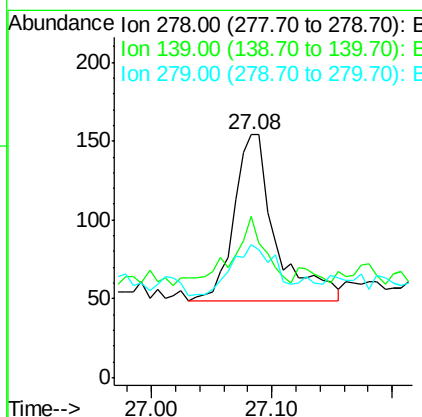
RT: 27.08 min Scan# 4953

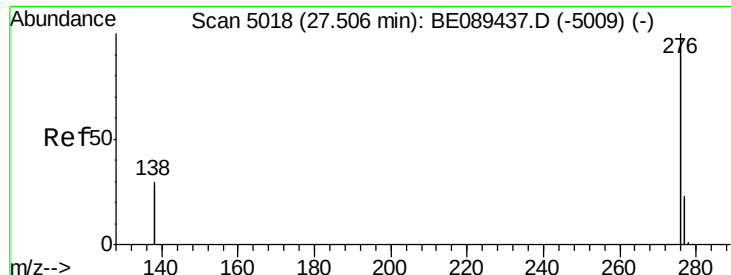
Delta R.T. -0.01 min

Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Tgt Ion:	278	Resp:	248
Ion	Ratio	Lower	Upper
278	100		
139	66.2	17.0	25.4#
279	54.5	19.1	28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.50 min Scan# 5017

Delta R.T. -0.01 min

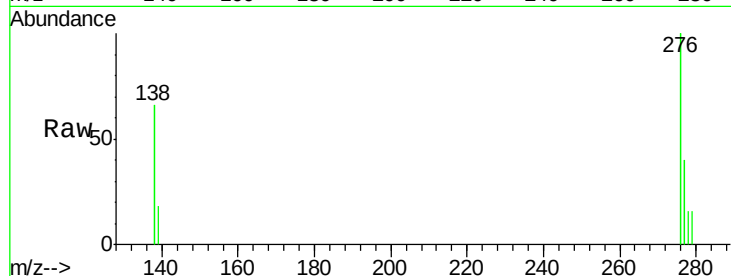
Lab File: BE089475.D

Acq: 31 Jan 2015 18:44

Instrument :

BNA_E

ClientSampleId :



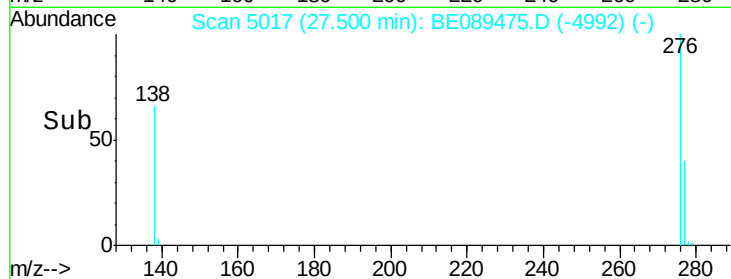
Tgt Ion: 276 Resp: 1613

Ion Ratio Lower Upper

276 100

277 40.2 18.4 27.6#

138 66.0 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

