

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089478.D
 Acq On : 31 Jan 2015 21:19
 Operator : TP/IZ
 Sample : MDL-03-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 03:41:34 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	65512	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	269638	5.00	ng	-0.01
6) Acenaphthene-d10	16.69	164	139920	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	234417	5.00	ng	0.00
16) Chrysene-d12	23.84	240	196817	5.00	ng	0.00
22) Perylene-d12	25.55	264	165539	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	177867	9.96	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	295602	8.02	ng	0.00
18) Terphenyl-d14	22.48	244	285797	9.70	ng	0.00

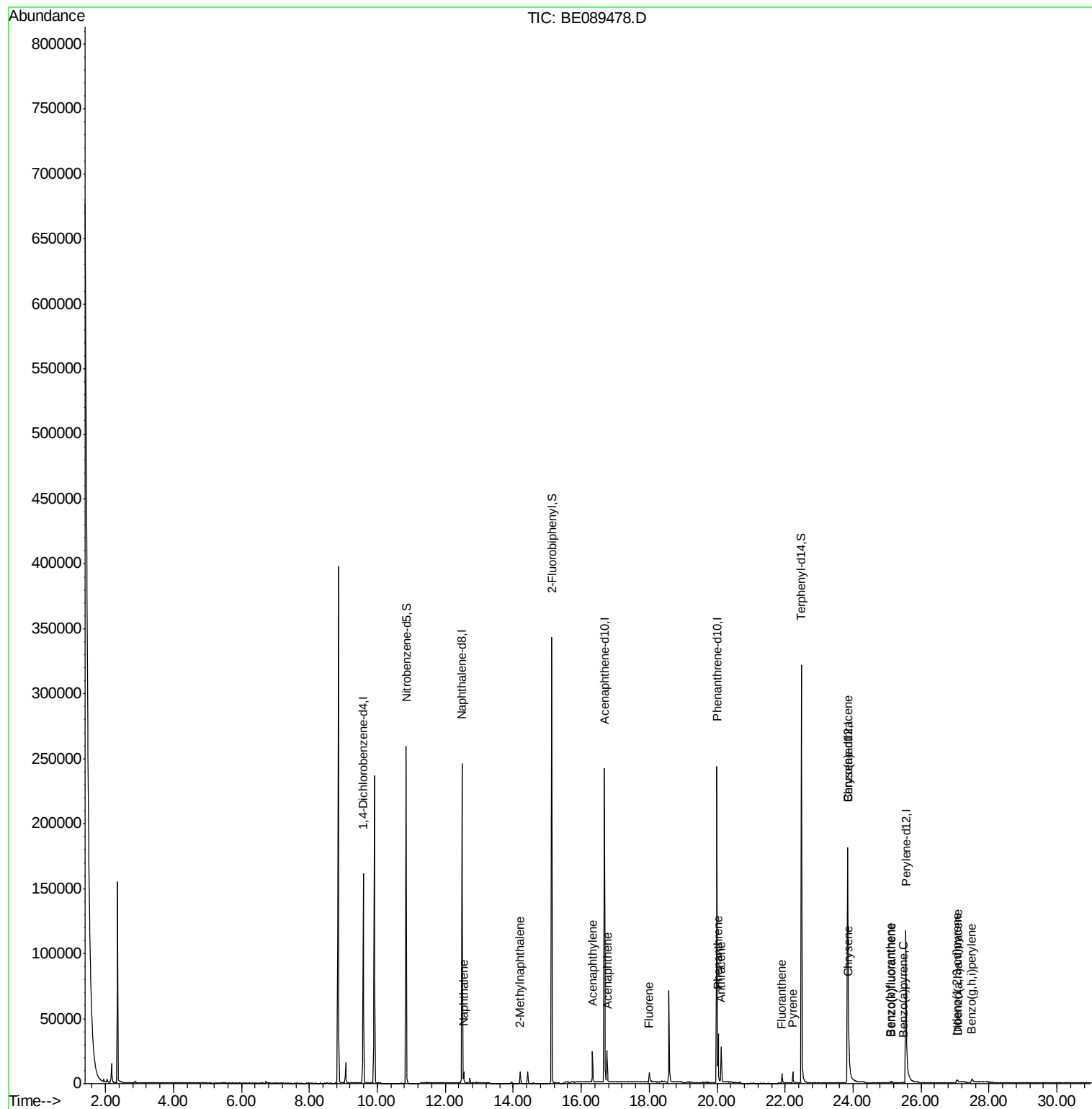
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	10017	0.16	ng	99
5) 2-Methylnaphthalene	14.20	142	5647	0.15	ng	100
8) Acenaphthylene	16.34	152	30691	0.12	ng	99
9) Acenaphthene	16.76	154	5255	0.14	ng	96
10) Fluorene	18.00	166	5496	0.13	ng	99
12) Pentachlorophenol	19.66	266	147	Below Cal	#	89
13) Phenanthrene	20.03	178	36041	0.16	ng	98
14) Anthracene	20.12	178	28653	0.14	ng	99
15) Fluoranthene	21.91	202	6801	0.14	ng	97
17) Pyrene	22.22	202	7495	0.14	ng	99
19) Benzo(a)anthracene	23.84	228	17184	0.10	ng	97
20) Chrysene	23.87	228	33721	0.18	ng	95
21) Indeno(1,2,3-cd)pyrene	27.05	276	4422	0.03	ng	92
23) Benzo(b)fluoranthene	25.09	252	1077	0.22	ng	# 82
24) Benzo(k)fluoranthene	25.13	252	1858	0.04	ng	# 88
25) Benzo(a)pyrene	25.48	252	1218	0.16	ng	# 85
26) Dibenzo(a,h)anthracene	27.08	278	775	0.15	ng	# 73
27) Benzo(g,h,i)perylene	27.50	276	5681	0.04	ng	# 83

(#) = 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. -0.01 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :

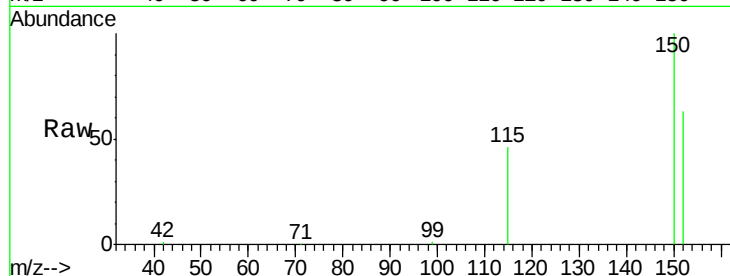
Tgt Ion:152 Resp: 65512

Ion Ratio Lower Upper

152 100

150 159.9 127.2 190.8

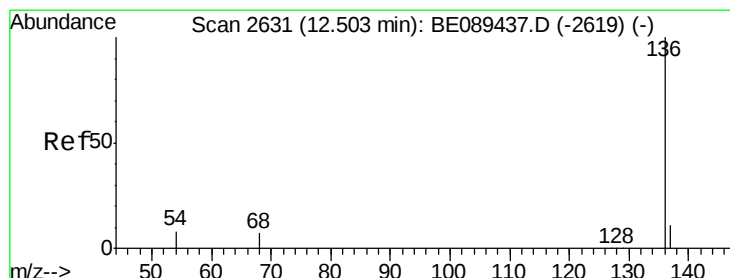
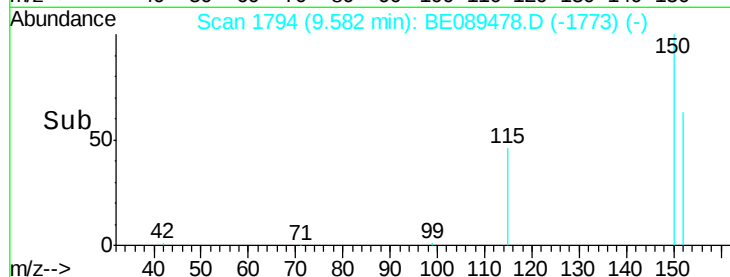
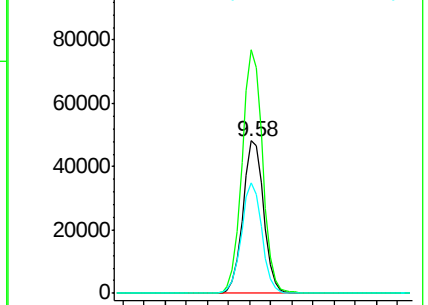
115 72.9 57.5 86.3



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: BE089478.D

Acq: 31 Jan 2015 21:19

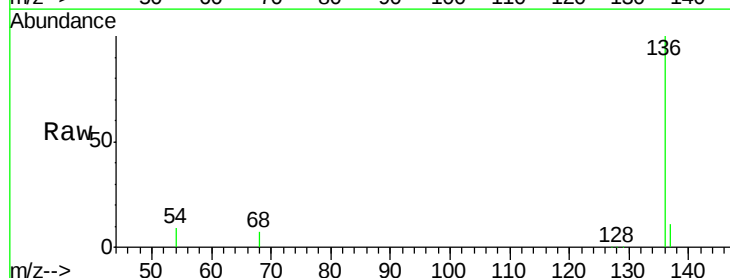
Tgt Ion:136 Resp: 269638

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

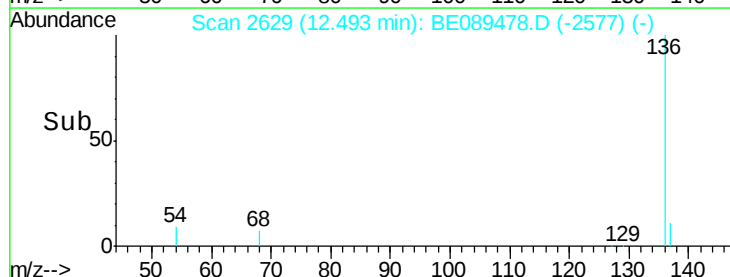
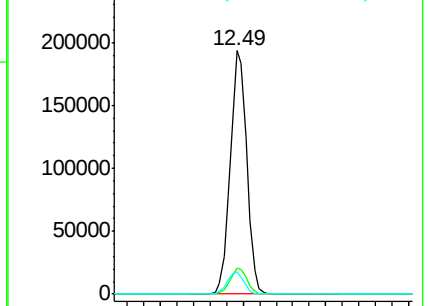
54 9.2 6.6 10.0



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: 9.96 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :

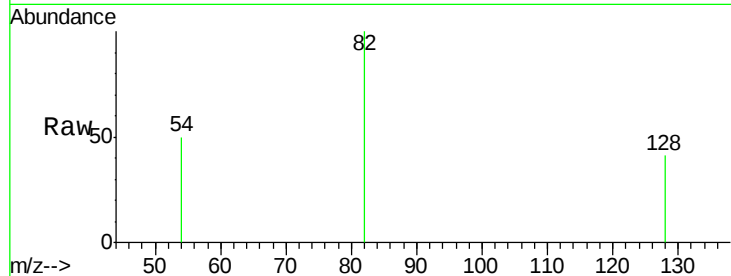
Tgt Ion: 82 Resp: 177867

Ion Ratio Lower Upper

82 100

128 40.8 31.2 46.8

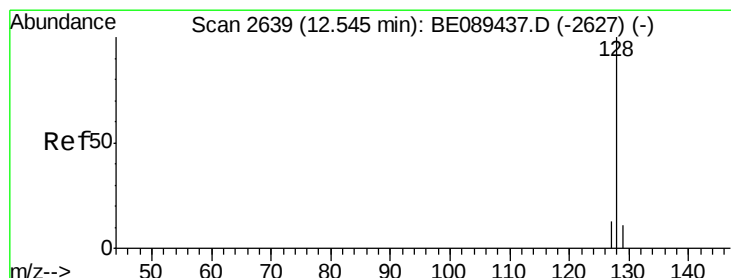
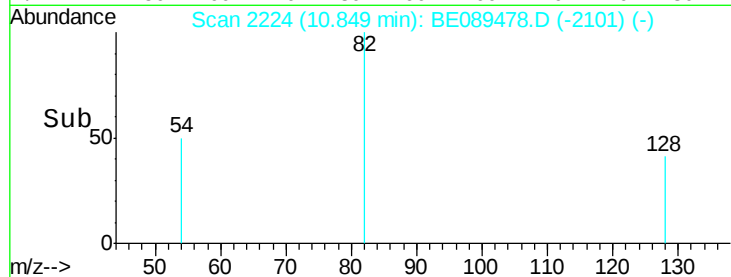
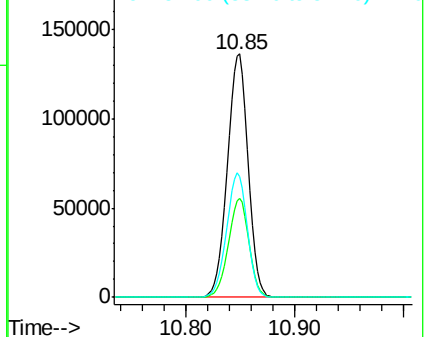
54 49.8 41.9 62.9



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: 0.16 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

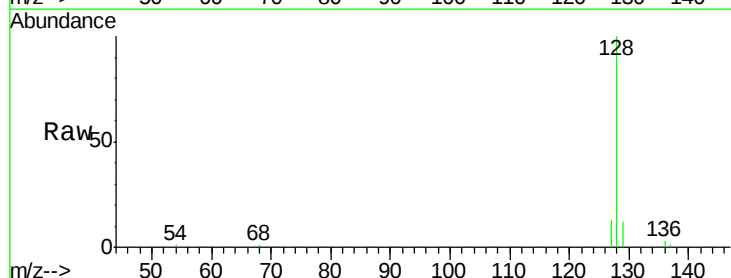
Tgt Ion: 128 Resp: 10017

Ion Ratio Lower Upper

128 100

129 11.6 8.8 13.2

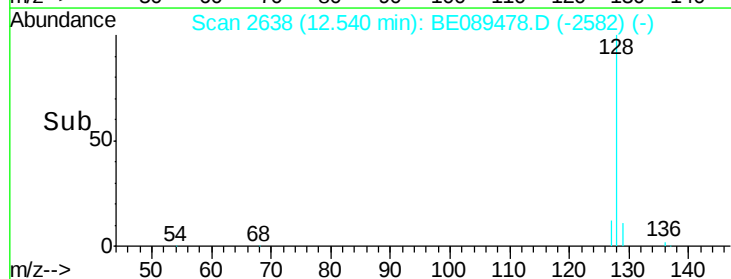
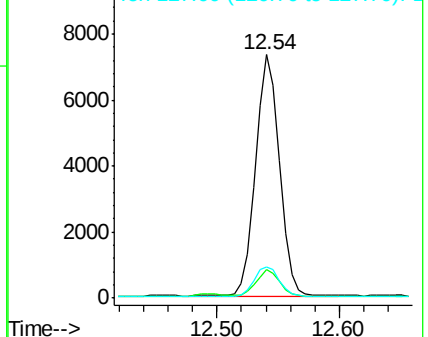
127 13.0 10.6 16.0



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: 0.15 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.00 min

Lab File: BE089478.D

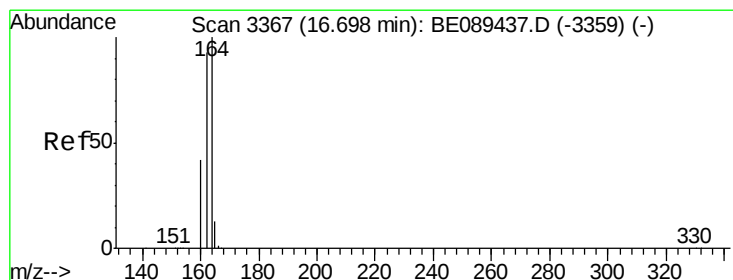
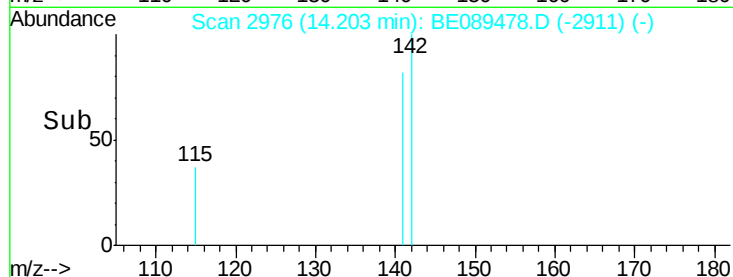
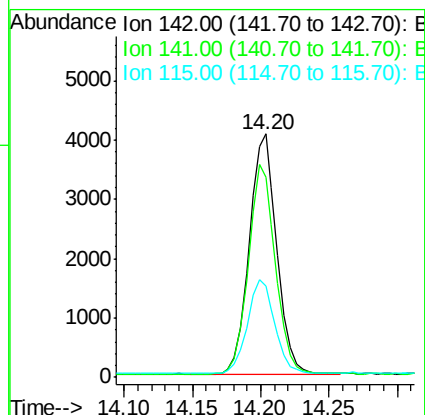
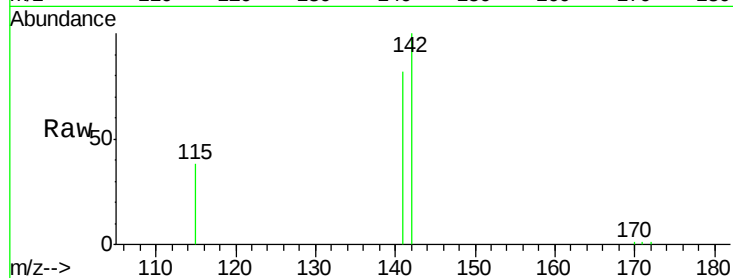
Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	5647
Ion Ratio	Lower	Upper	
142	100		
141	82.3	66.1	99.1
115	37.8	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

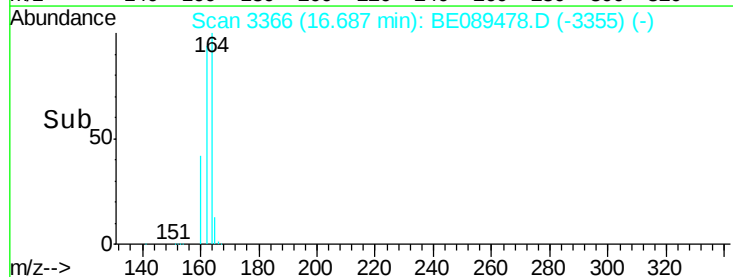
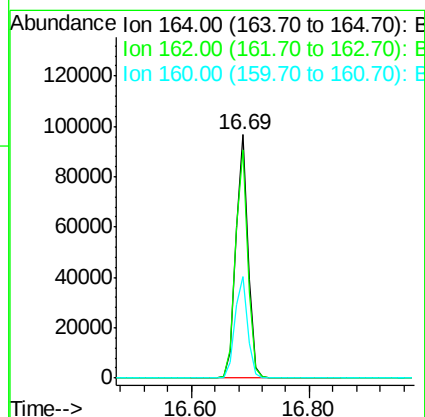
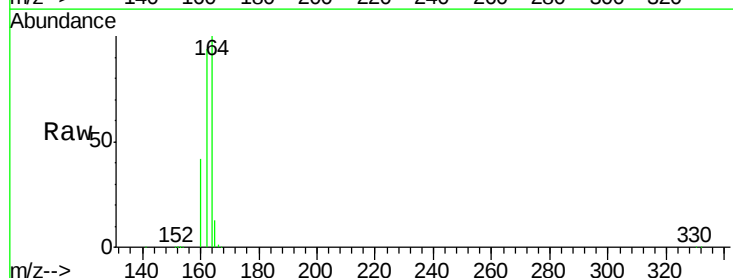
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Tgt Ion:	164	Resp:	139920
Ion Ratio	Lower	Upper	
164	100		
162	93.9	74.7	112.1
160	41.8	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 8.02 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :

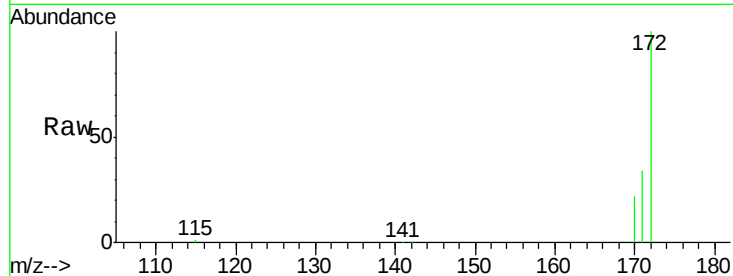
Tgt Ion:172 Resp: 295602

Ion Ratio Lower Upper

172 100

171 33.9 26.2 39.4

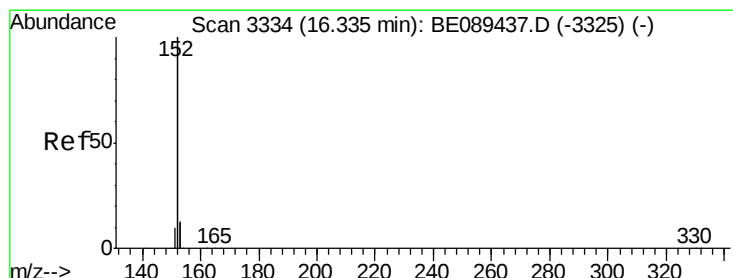
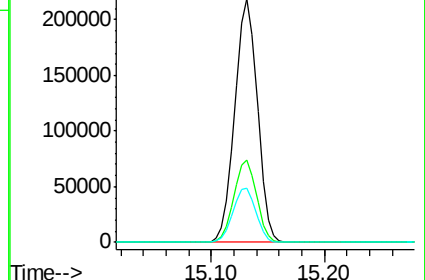
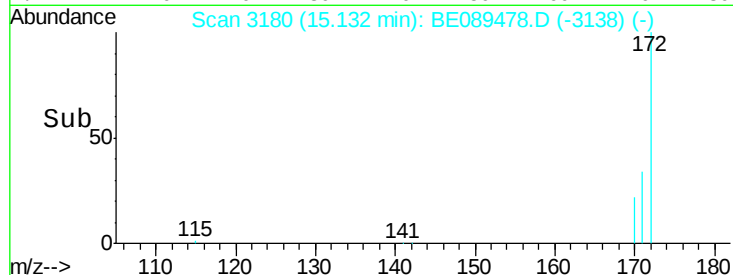
170 22.4 16.5 24.7



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: 0.12 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

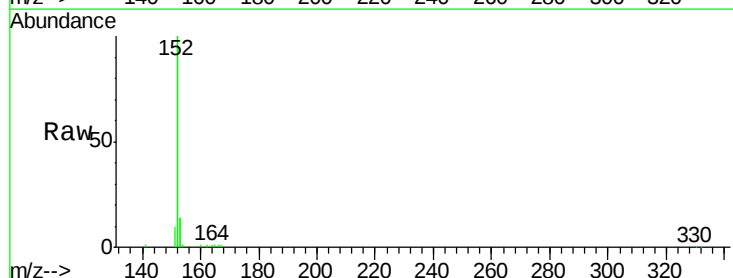
Tgt Ion:152 Resp: 30691

Ion Ratio Lower Upper

152 100

151 5.3 3.9 5.9

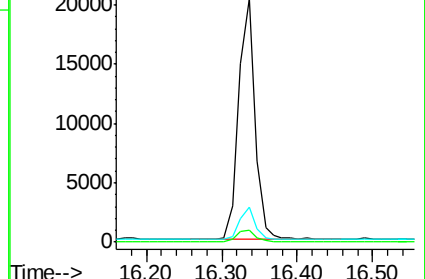
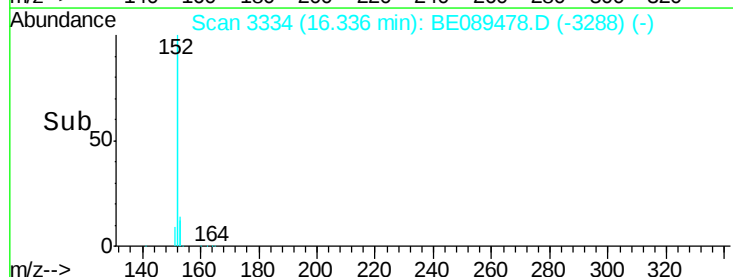
153 12.6 10.3 15.5



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: 0.14 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :

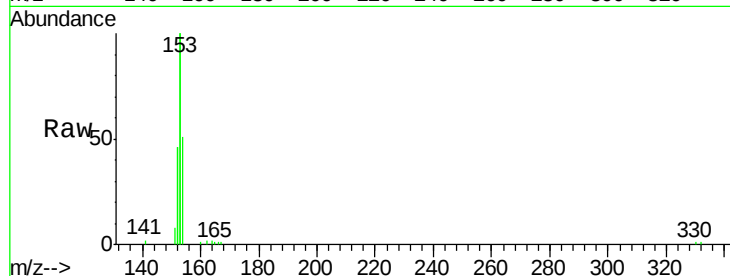
Tgt Ion:154 Resp: 5255

Ion Ratio Lower Upper

154 100

153 436.0 342.3 513.5

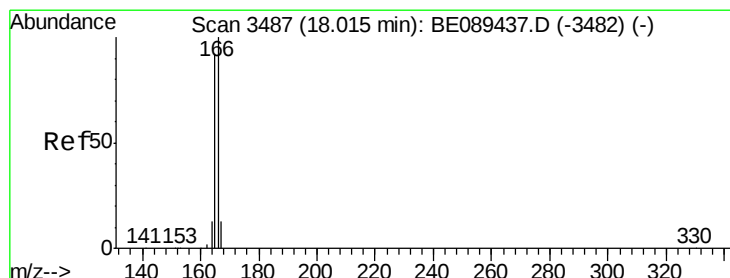
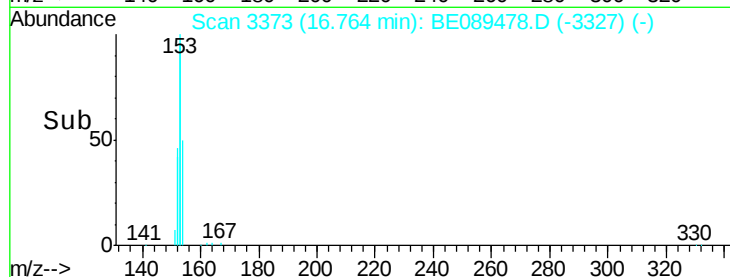
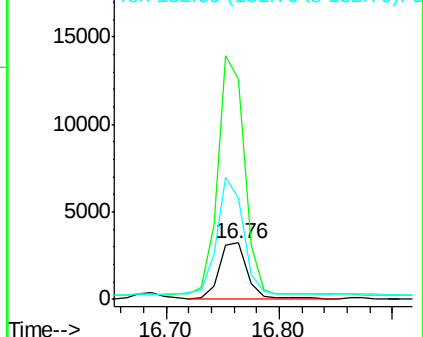
152 213.9 165.5 248.3



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: 0.13 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

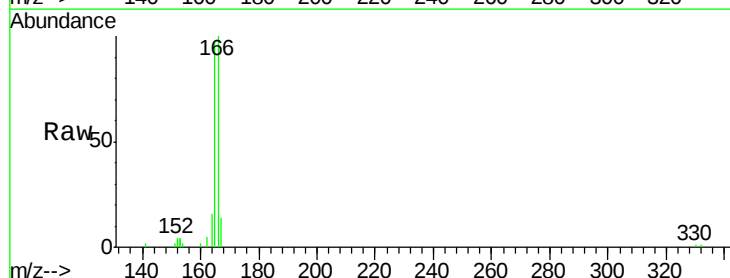
Tgt Ion:166 Resp: 5496

Ion Ratio Lower Upper

166 100

165 93.6 74.4 111.6

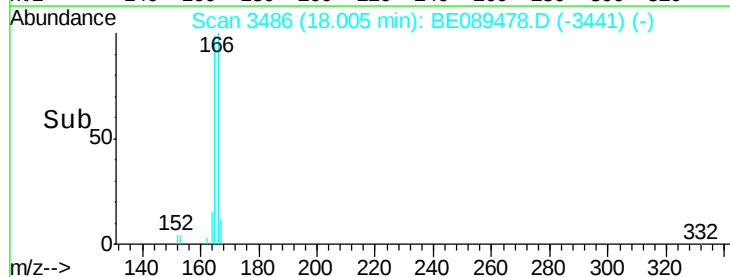
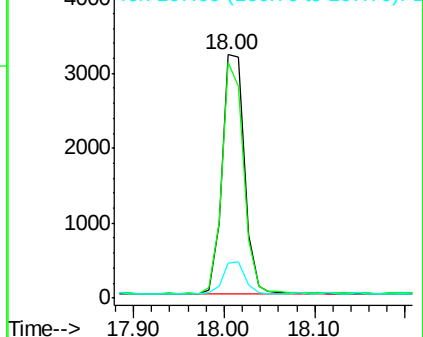
167 13.2 10.6 15.8



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

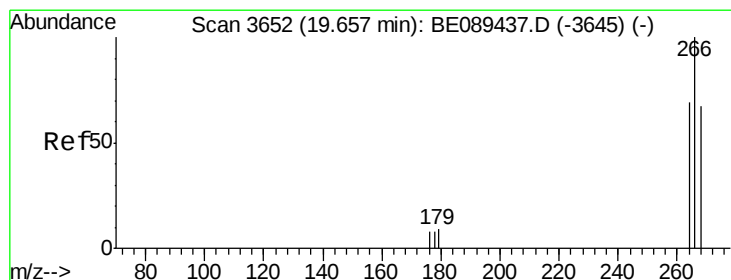
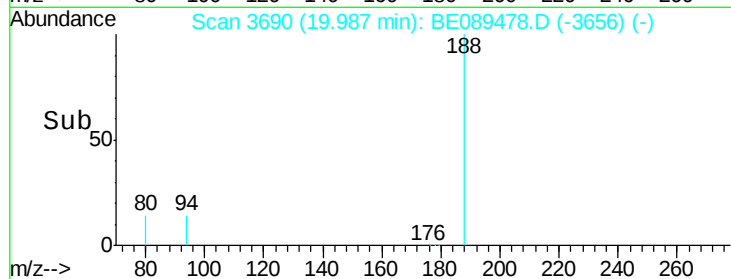
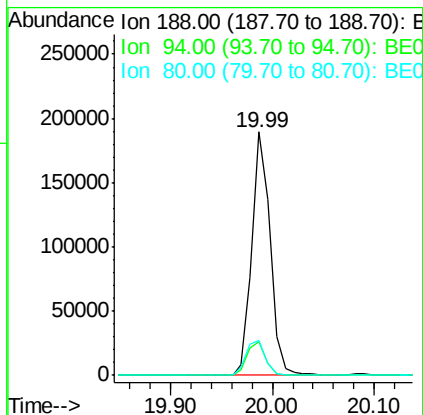
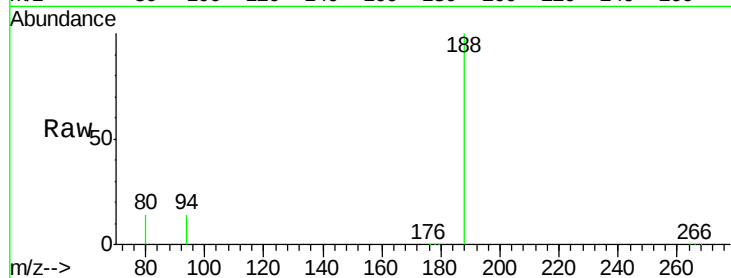




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089478.D
Acq: 31 Jan 2015 21:19

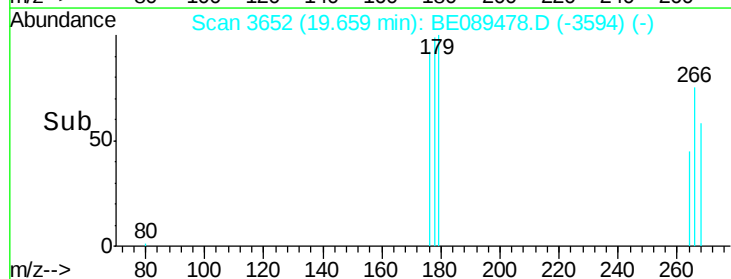
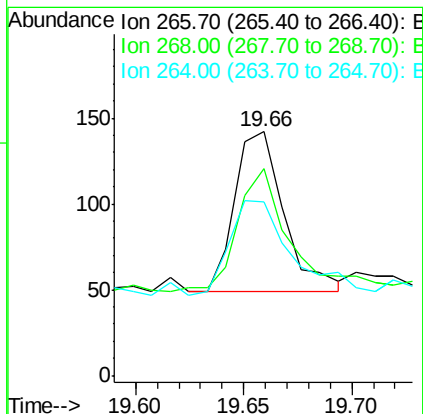
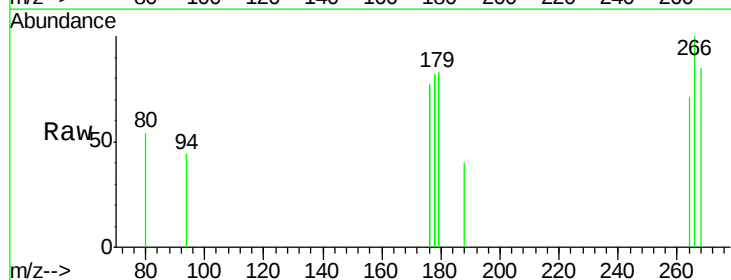
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 234417
Ion Ratio Lower Upper
188 100
94 13.6 9.4 14.0
80 14.4 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089478.D
Acq: 31 Jan 2015 21:19

Tgt Ion:266 Resp: 147
Ion Ratio Lower Upper
266 100
268 85.2 54.2 81.4#
264 71.1 56.2 84.2

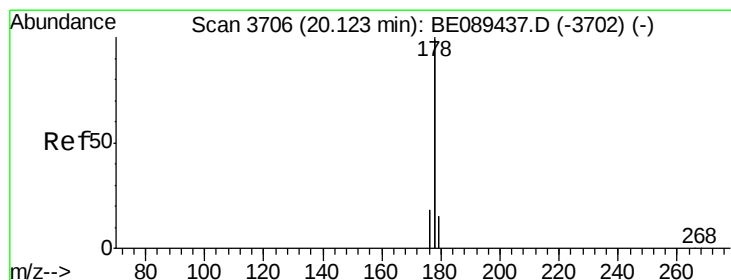
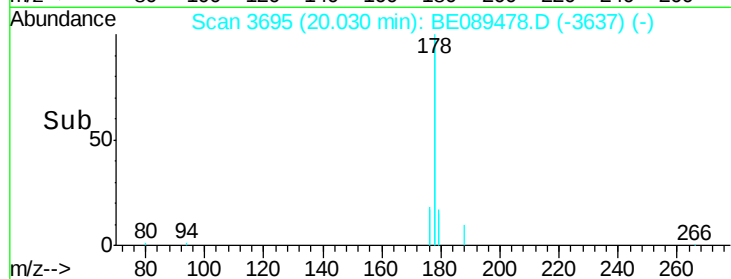
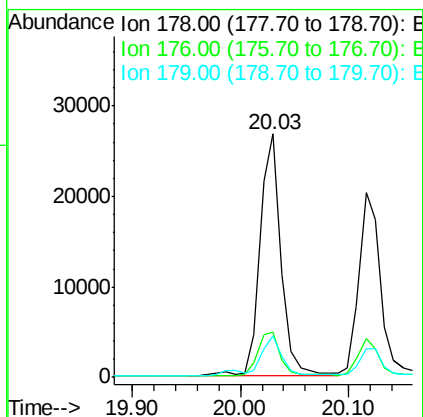
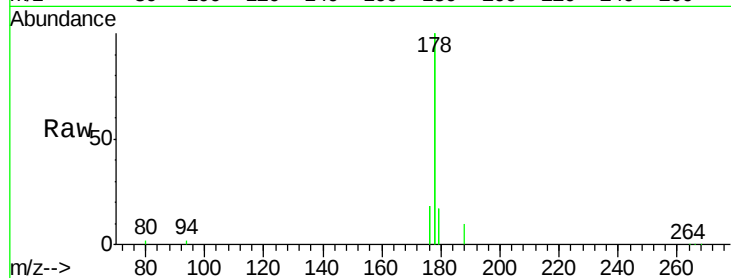




#13
Phenanthrene
Concen: 0.16 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089478.D
Acq: 31 Jan 2015 21:19

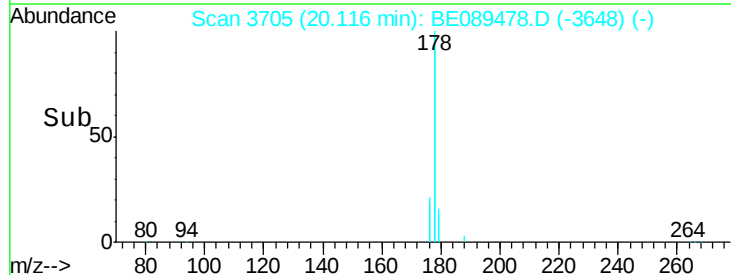
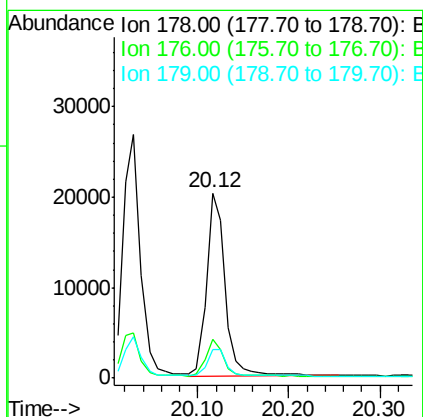
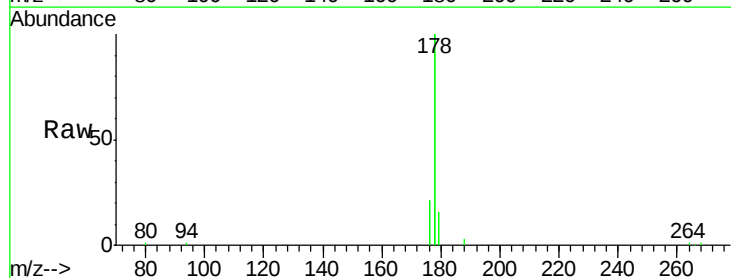
Instrument :
BNA_E
ClientSampleId :

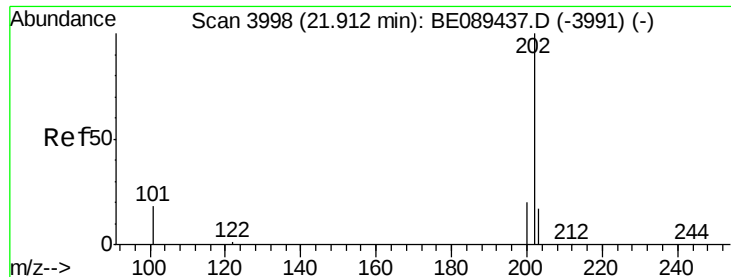
Tgt Ion:178 Resp: 36041
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 17.5 12.3 18.5



#14
Anthracene
Concen: 0.14 ng
RT: 20.12 min Scan# 3705
Delta R.T. -0.01 min
Lab File: BE089478.D
Acq: 31 Jan 2015 21:19

Tgt Ion:178 Resp: 28653
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.0 12.2 18.2





#15

Fluoranthene

Concen: 0.14 ng

RT: 21.91 min Scan# 3997

Delta R.T. 0.00 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :

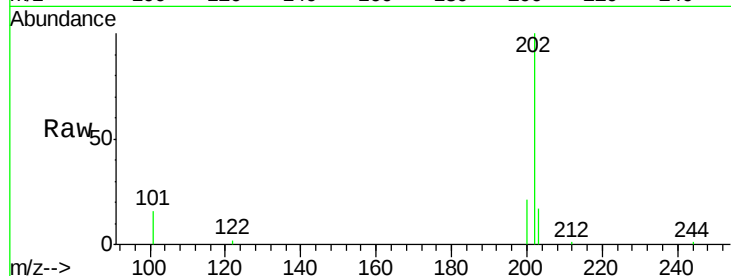
Tgt Ion:202 Resp: 6801

Ion Ratio Lower Upper

202 100

101 15.5 13.6 20.4

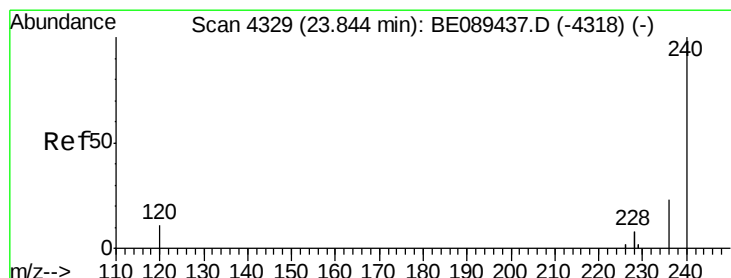
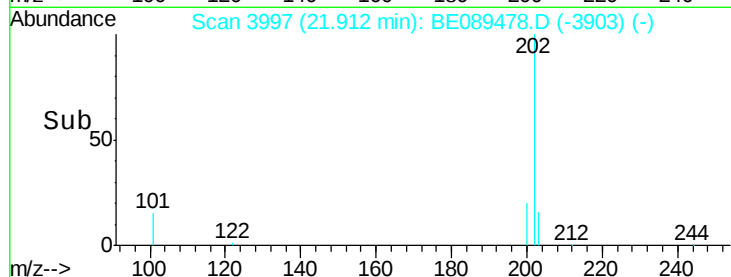
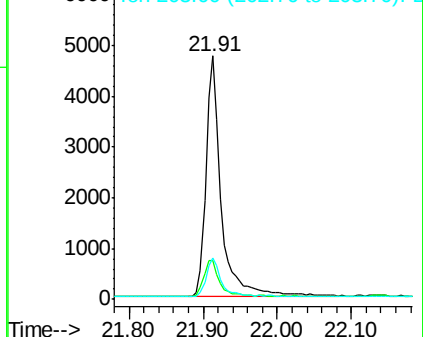
203 15.9 13.8 20.6



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# 4328

Delta R.T. -0.00 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

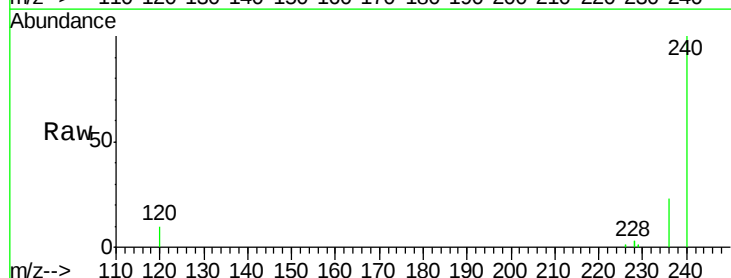
Tgt Ion:240 Resp: 196817

Ion Ratio Lower Upper

240 100

120 9.8 8.6 13.0

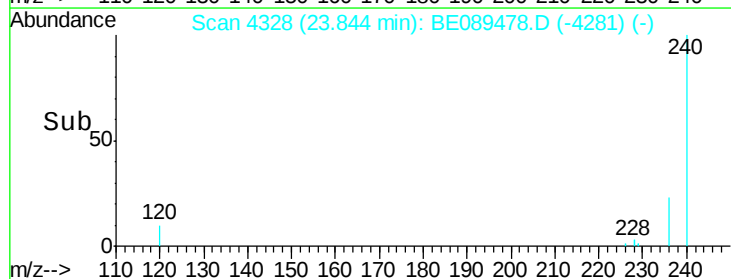
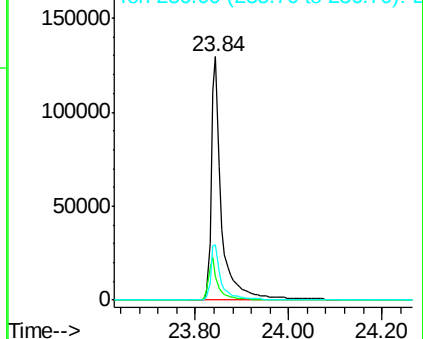
236 22.5 18.7 28.1



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

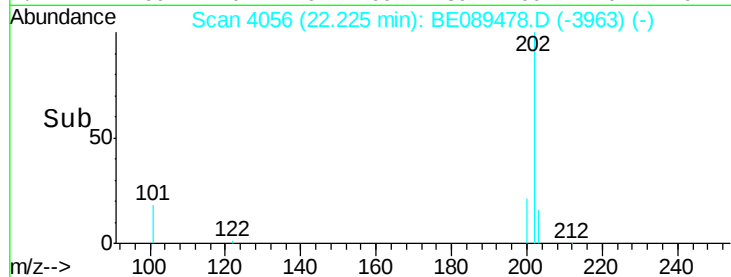
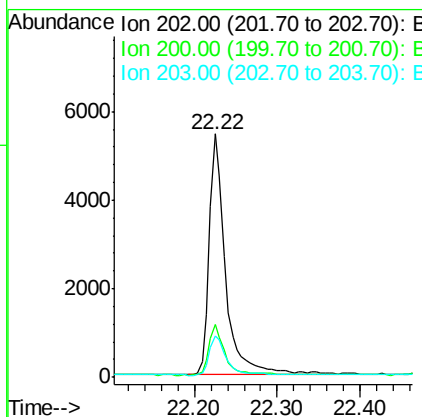
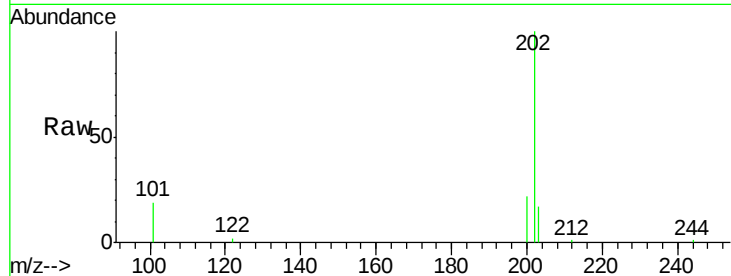




#17
 Pyrene
 Concen: 0.14 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089478.D
 Acq: 31 Jan 2015 21:19

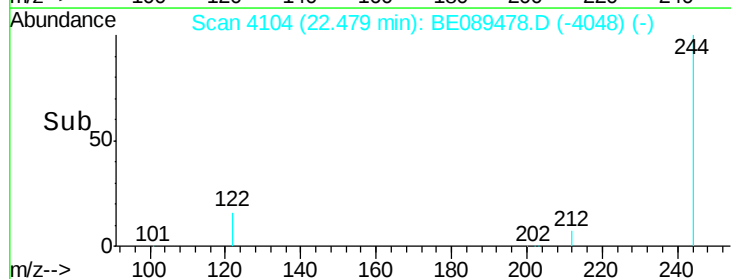
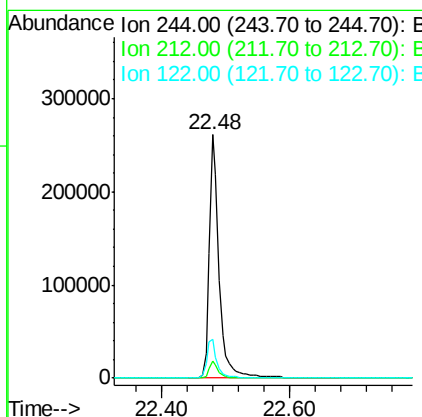
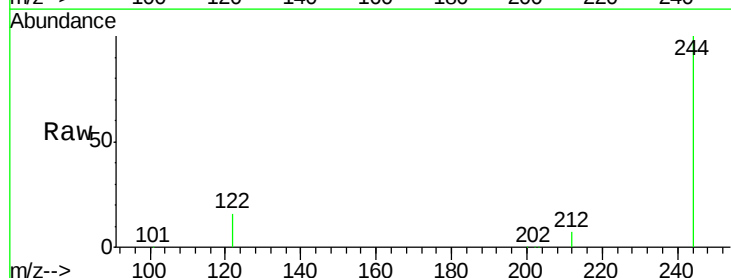
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 7495
 Ion Ratio Lower Upper
 202 100
 200 19.9 16.2 24.4
 203 17.1 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.70 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089478.D
 Acq: 31 Jan 2015 21:19

Tgt Ion:244 Resp: 285797
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.0 7.6
 122 15.7 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.10 ng

RT: 23.84 min Scan# 4327

Delta R.T. 0.01 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :

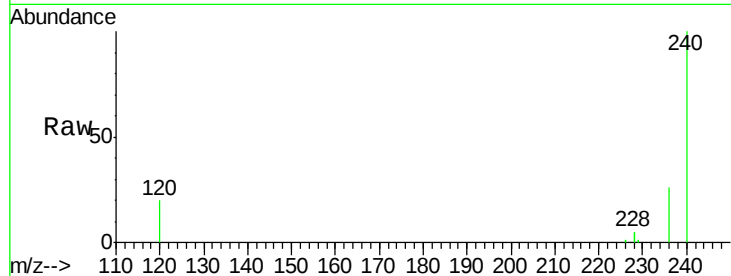
Tgt Ion:228 Resp: 17184

Ion Ratio Lower Upper

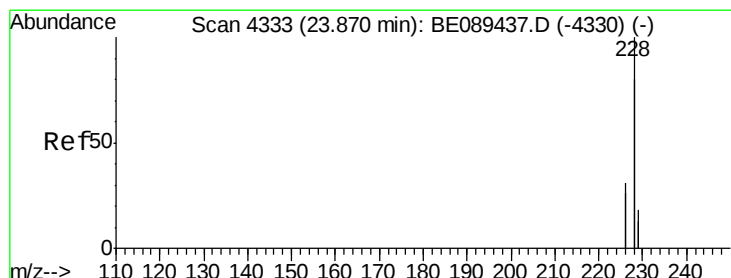
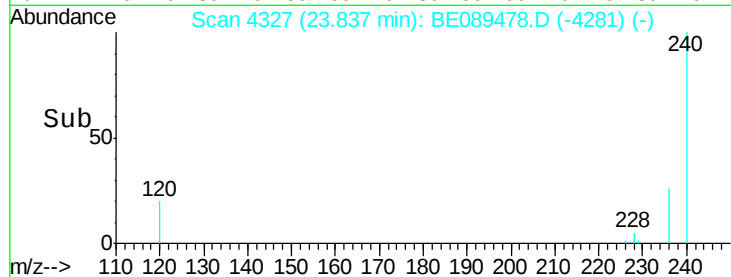
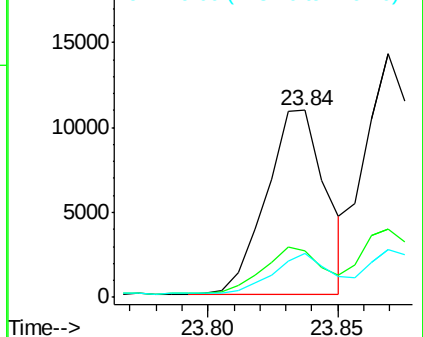
228 100

226 25.0 20.0 30.0

229 23.3 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: 0.18 ng

RT: 23.87 min Scan# 4332

Delta R.T. -0.00 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

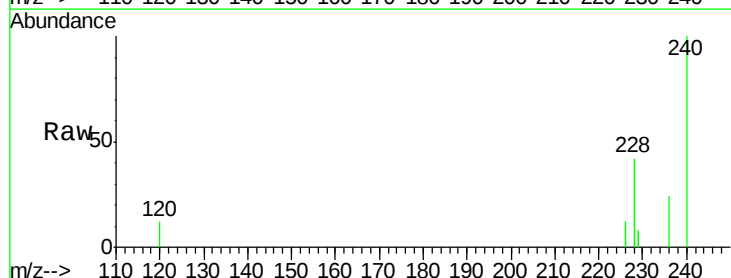
Tgt Ion:228 Resp: 33721

Ion Ratio Lower Upper

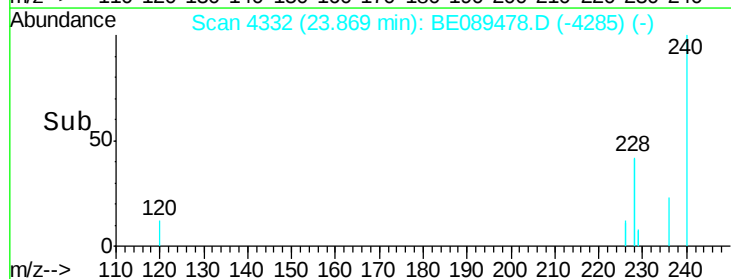
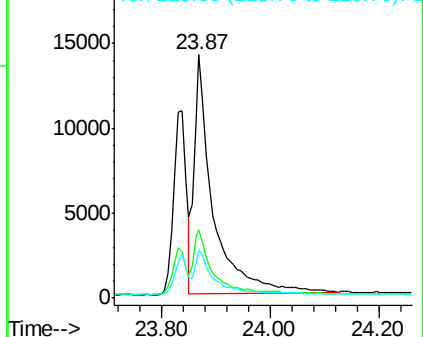
228 100

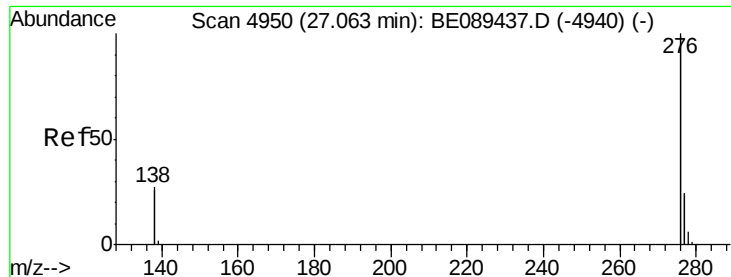
226 28.1 24.5 36.7

229 19.7 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: 27.05 min Scan# 4947

Delta R.T. -0.01 min

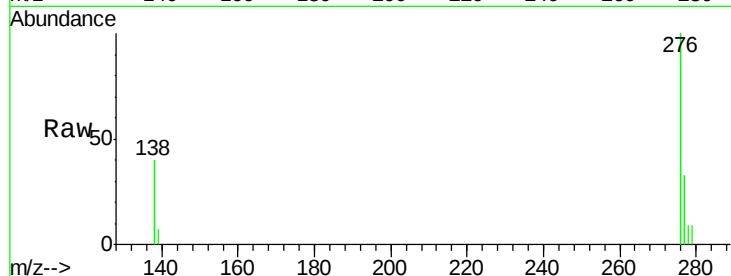
Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :



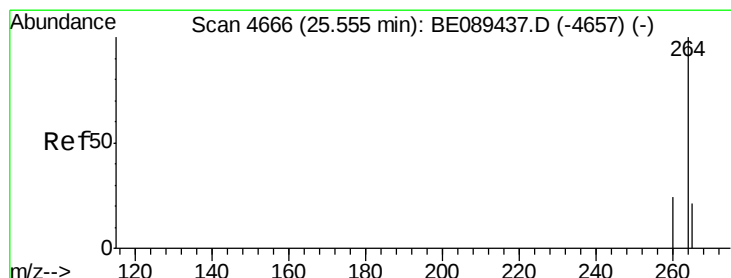
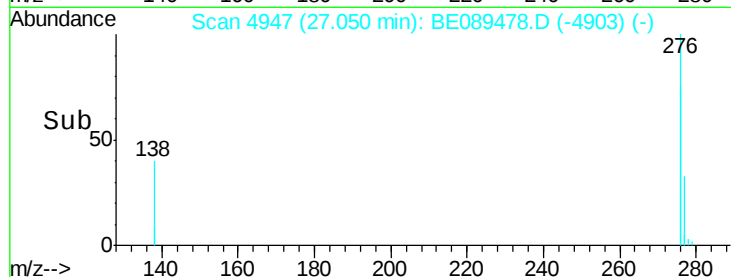
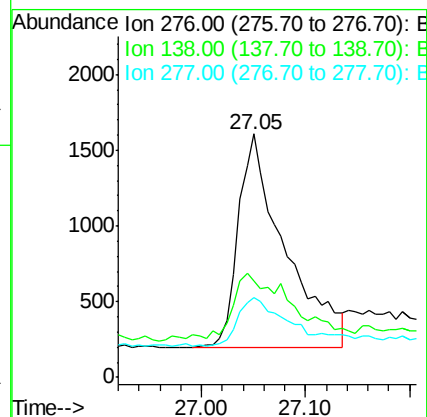
Tgt Ion:276 Resp: 4422

Ion Ratio Lower Upper

276 100

138 37.4 25.4 38.0

277 21.9 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: BE089478.D

Acq: 31 Jan 2015 21:19

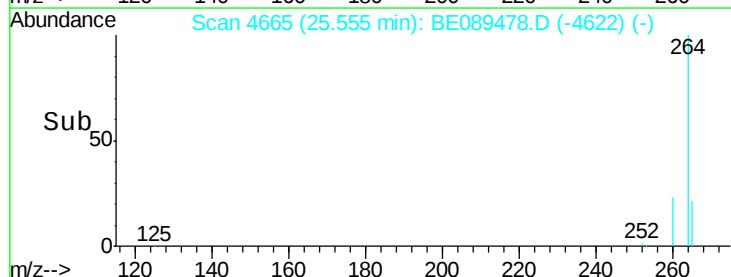
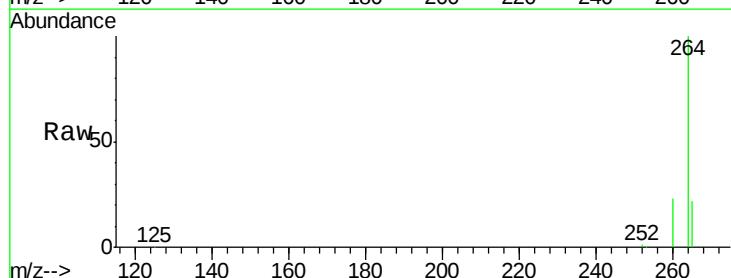
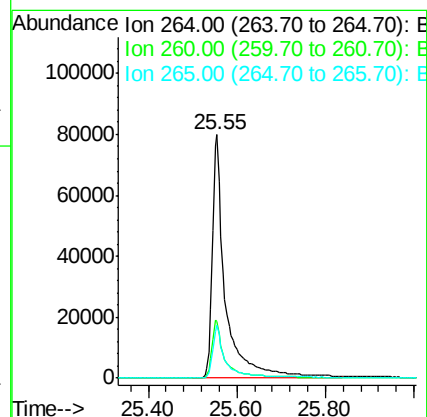
Tgt Ion:264 Resp: 165539

Ion Ratio Lower Upper

264 100

260 23.2 19.4 29.0

265 21.7 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 25.09 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089478.D

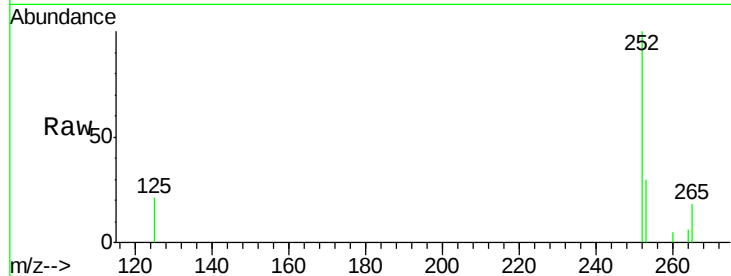
Acq: 31 Jan 2015 21:19

Instrument :

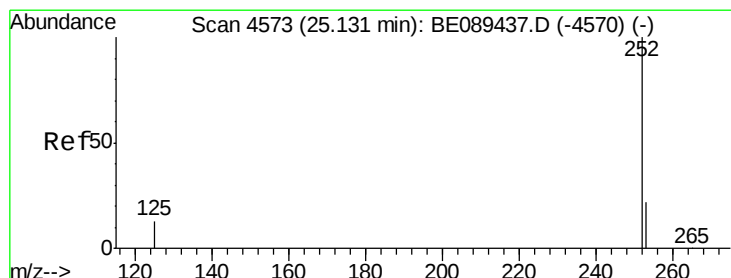
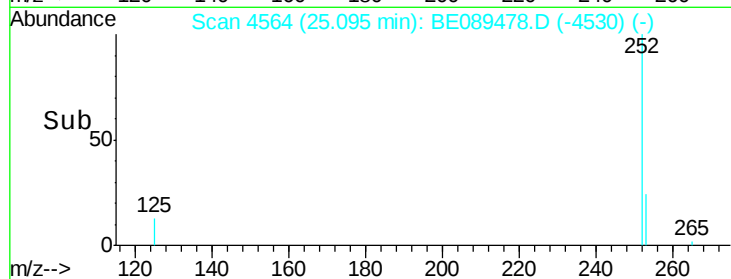
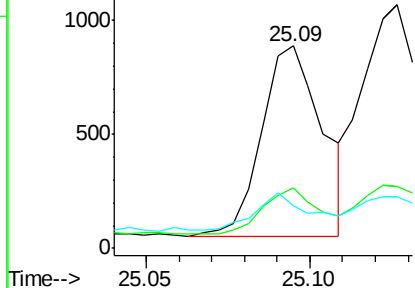
BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	1077
Ion	Ratio	Lower	Upper
252	100		
253	29.8	17.0	25.6#
125	21.4	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: 0.04 ng

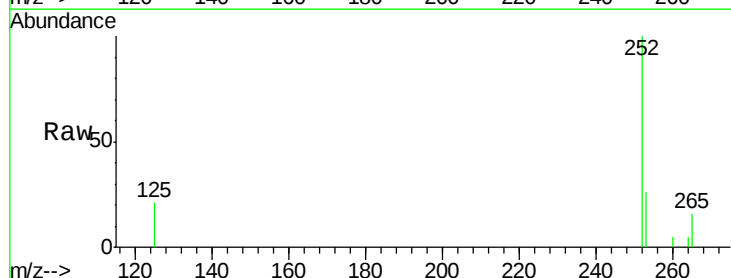
RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

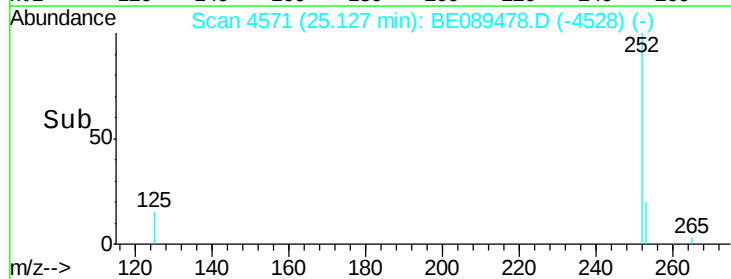
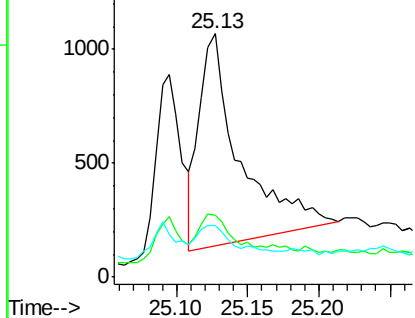
Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Tgt Ion:	252	Resp:	1858
Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.4	26.2
125	21.1	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: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :

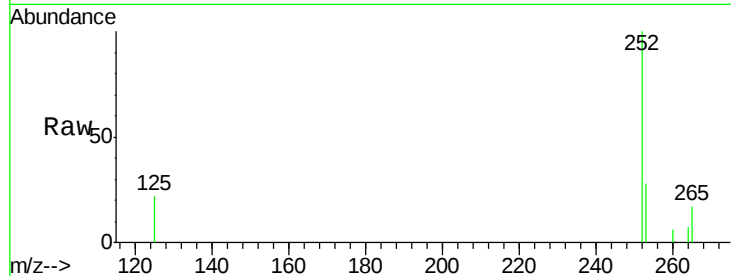
Tgt Ion:252 Resp: 1218

Ion Ratio Lower Upper

252 100

253 27.7 17.3 25.9#

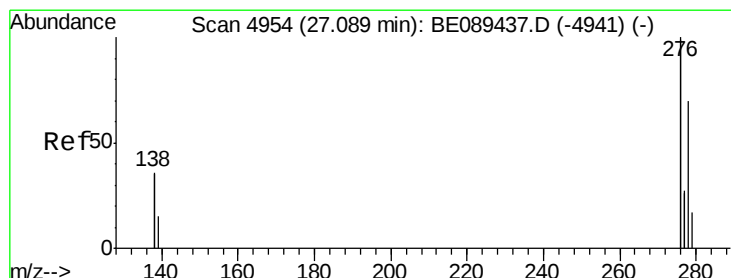
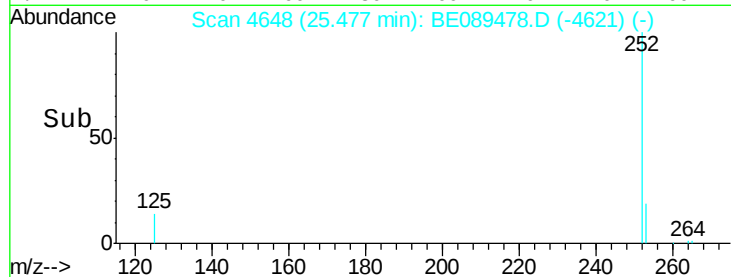
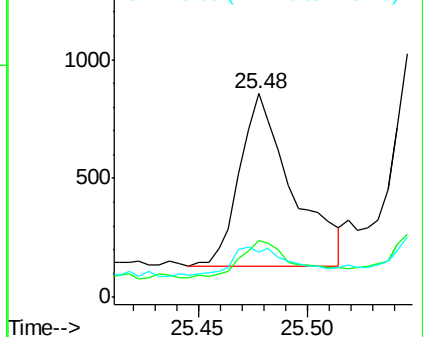
125 22.4 12.0 18.0#



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: 0.15 ng

RT: 27.08 min Scan# 4951

Delta R.T. -0.01 min

Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

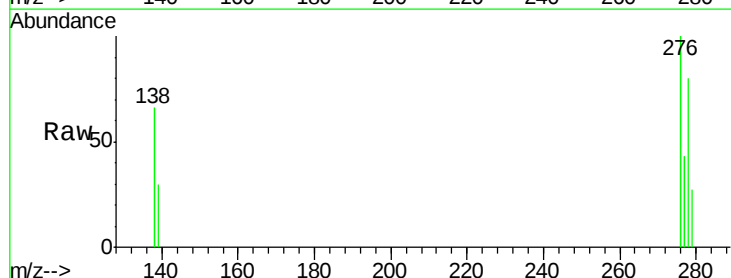
Tgt Ion:278 Resp: 775

Ion Ratio Lower Upper

278 100

139 37.7 17.0 25.4#

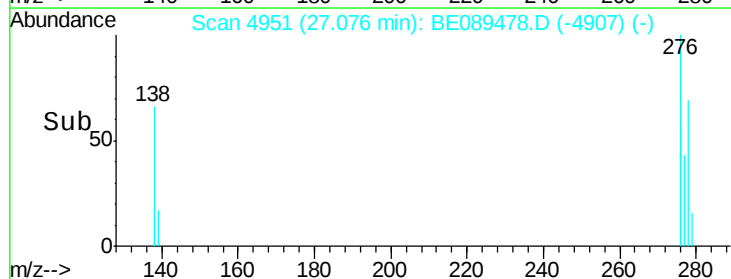
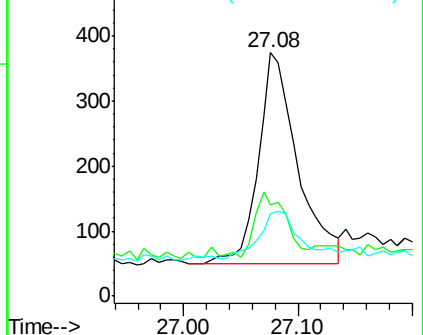
279 34.0 19.1 28.7#

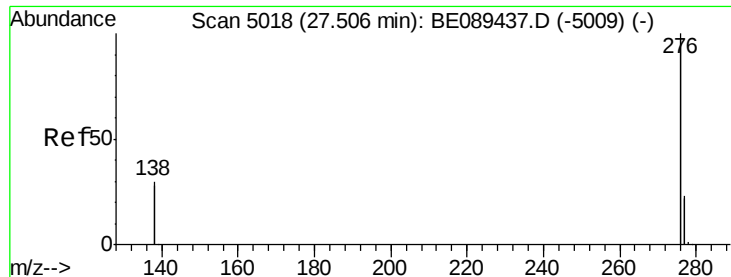


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.04 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

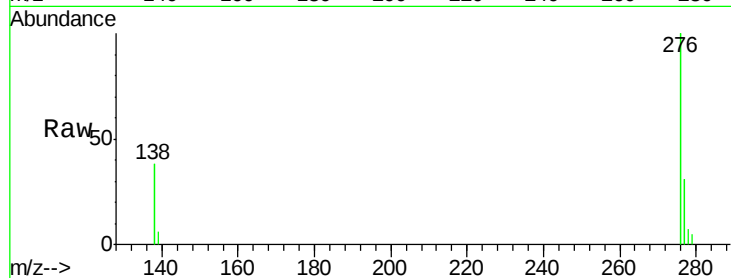
Lab File: BE089478.D

Acq: 31 Jan 2015 21:19

Instrument :

BNA_E

ClientSampleId :



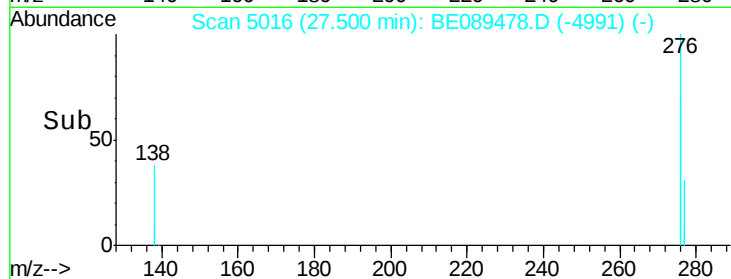
Tgt Ion: 276 Resp: 5681

Ion Ratio Lower Upper

276 100

277 31.3 18.4 27.6#

138 38.3 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

