

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089468.D
 Acq On : 31 Jan 2015 12:52
 Operator : TP/IZ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 02:33:51 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	52743	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	220662	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	117627	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	189101	5.00	ng	0.00
16) Chrysene-d12	23.84	240	144820	5.00	ng	0.00
22) Perylene-d12	25.56	264	123199	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	121897	8.34	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	229888	7.42	ng	0.00
18) Terphenyl-d14	22.48	244	194275	8.96	ng	0.00

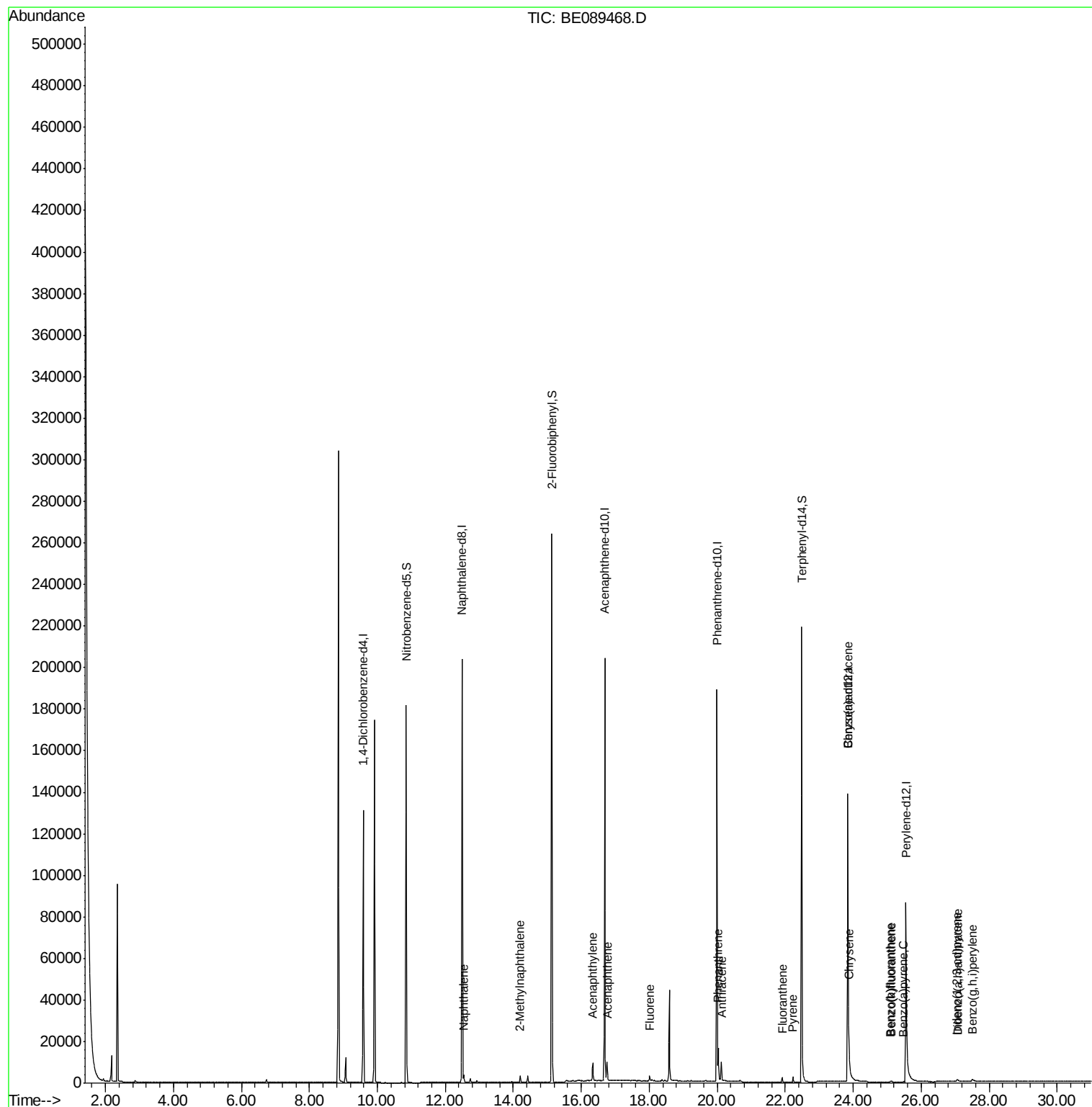
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	3749	0.07	ng	97
5) 2-Methylnaphthalene	14.20	142	2149	0.07	ng	94
8) Acenaphthylene	16.34	152	11114	0.05	ng	98
9) Acenaphthene	16.76	154	1942	0.06	ng	89
10) Fluorene	18.02	166	2059	0.06	ng	97
12) Pentachlorophenol	19.66	266	171	Below Cal		91
13) Phenanthrene	20.03	178	13611	0.07	ng	98
14) Anthracene	20.12	178	9737	0.06	ng	99
15) Fluoranthene	21.91	202	2153	0.05	ng	99
17) Pyrene	22.23	202	2277	0.06	ng	99
19) Benzo(a)anthracene	23.83	228	6462	0.05	ng	95
20) Chrysene	23.87	228	10910	0.08	ng	# 95
21) Indeno(1,2,3-cd)pyrene	27.06	276	1843	0.02	ng	# 82
23) Benzo(b)fluoranthene	25.10	252	415	0.20	ng	# 56
24) Benzo(k)fluoranthene	25.12	252	571	0.02	ng	# 67
25) Benzo(a)pyrene	25.48	252	437	0.14	ng	# 62
26) Dibenzo(a,h)anthracene	27.09	278	302	0.14	ng	# 50
27) Benzo(g,h,i)perylene	27.50	276	2351	0.02	ng	# 61

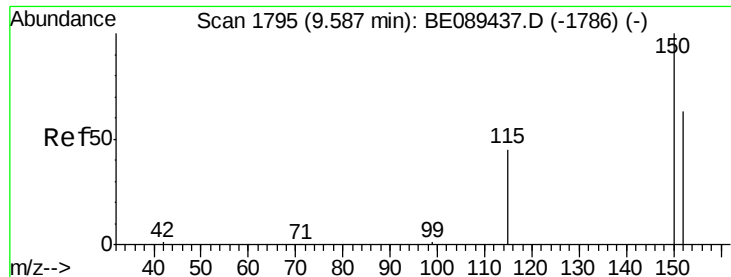
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.01 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :

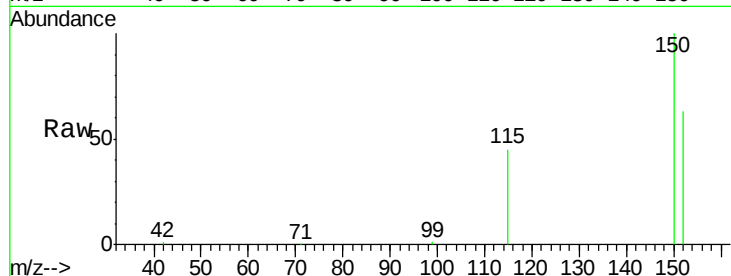
Tgt Ion:152 Resp: 52743

Ion Ratio Lower Upper

152 100

150 159.1 127.2 190.8

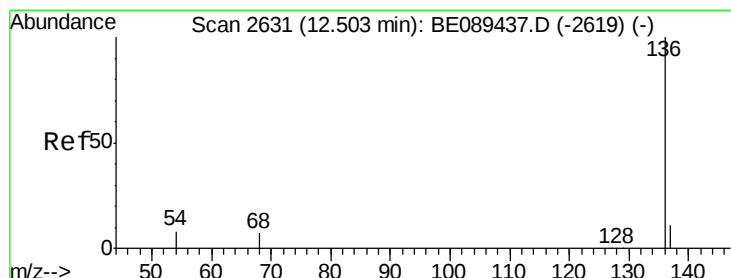
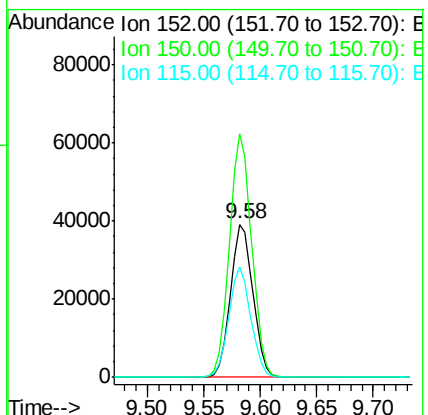
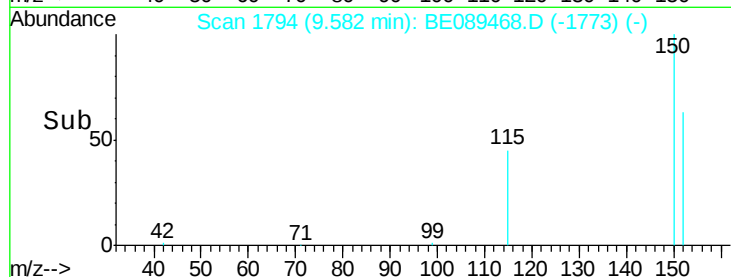
115 72.3 57.5 86.3



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: BE089468.D

Acq: 31 Jan 2015 12:52

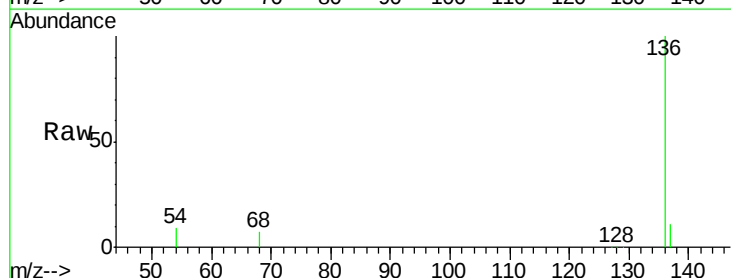
Tgt Ion:136 Resp: 220662

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

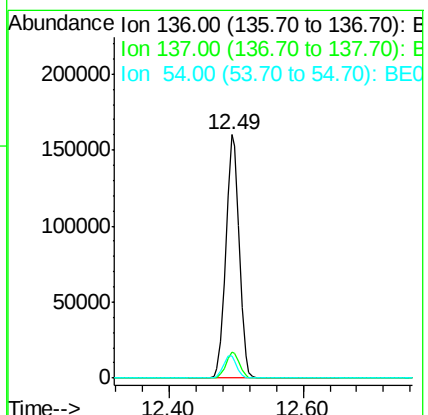
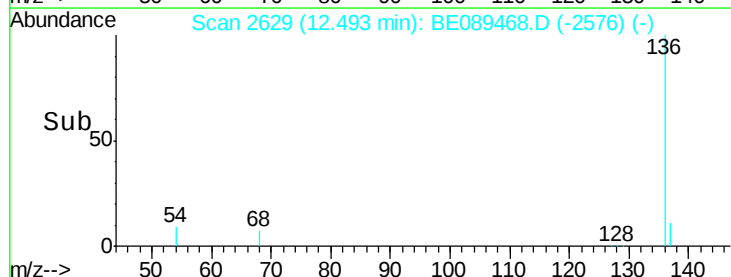
54 9.3 6.6 10.0



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: 8.34 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.00 min

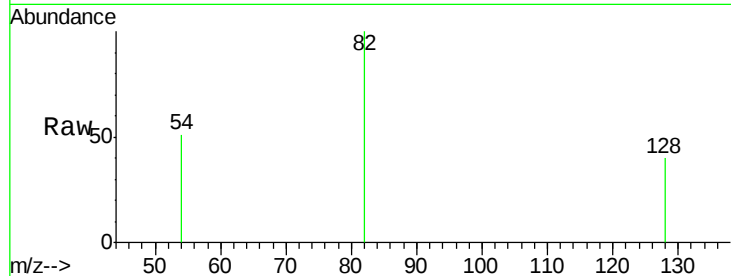
Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :



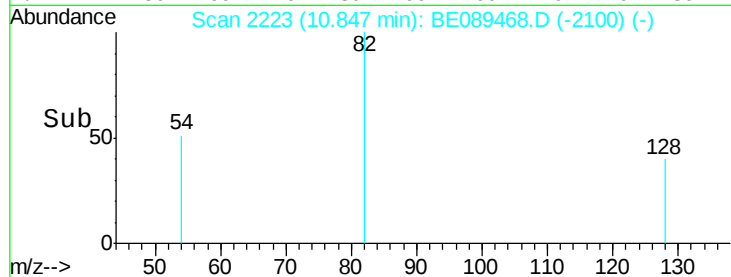
Tgt Ion: 82 Resp: 121897

Ion Ratio Lower Upper

82 100

128 40.0 31.2 46.8

54 51.3 41.9 62.9



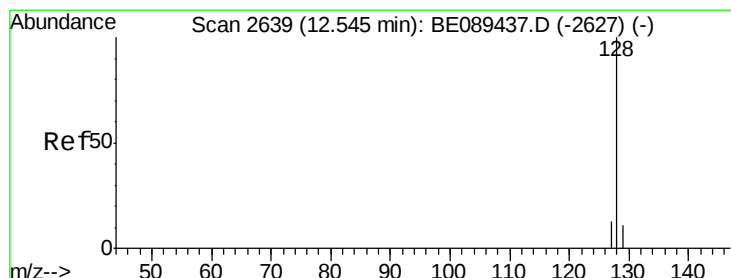
Abundance Ion 82.00 (81.70 to 82.70): BE089437.D (-2208) (-)

Ion 128.00 (127.70 to 128.70): BE089437.D (-2208) (-)

Ion 54.00 (53.70 to 54.70): BE089437.D (-2208) (-)

Time-->

10.75 10.80 10.85 10.90



#4

Naphthalene

Concen: 0.07 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

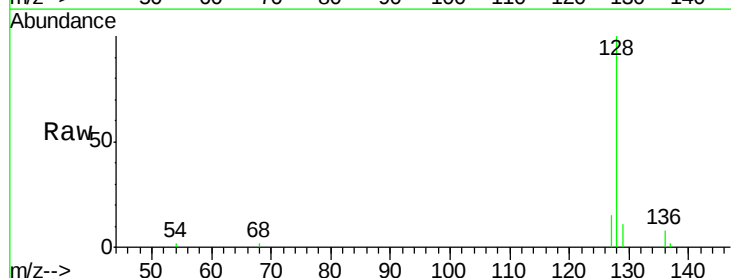
Tgt Ion: 128 Resp: 3749

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

127 15.2 10.6 16.0



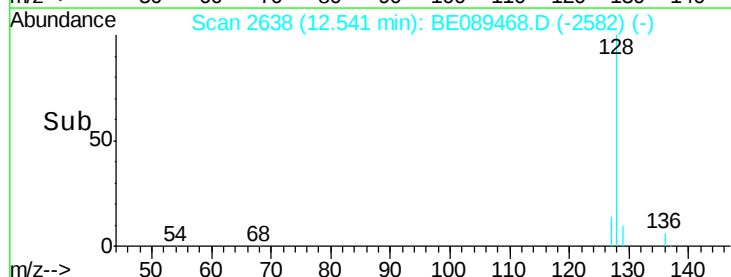
Abundance Ion 128.00 (127.70 to 128.70): BE089437.D (-2627) (-)

Ion 129.00 (128.70 to 129.70): BE089437.D (-2627) (-)

Ion 127.00 (126.70 to 127.70): BE089437.D (-2627) (-)

Time-->

12.50 12.55 12.60





#5

2-Methylnaphthalene

Concen: 0.07 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089468.D

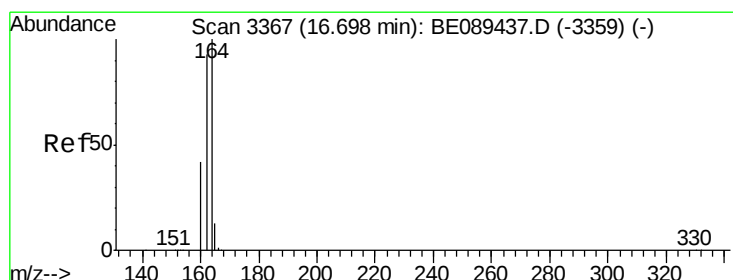
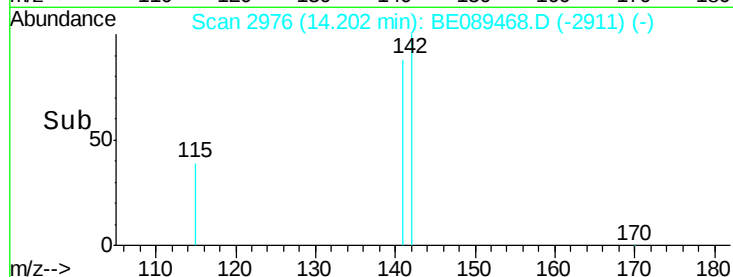
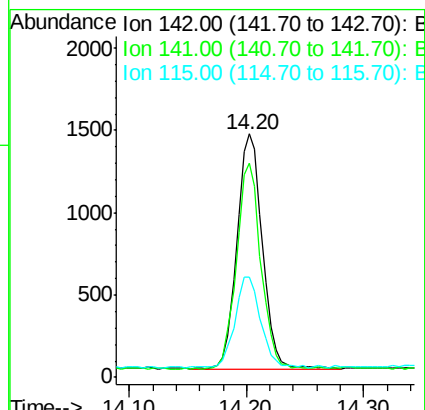
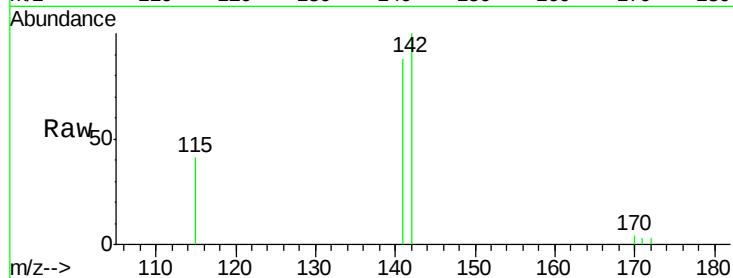
Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	2149
Ion	Ratio	Lower	Upper
142	100		
141	88.2	66.1	99.1
115	41.0	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

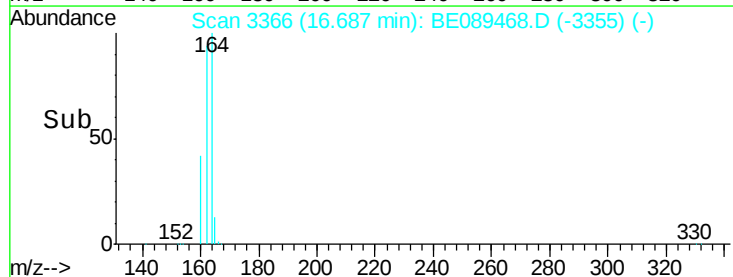
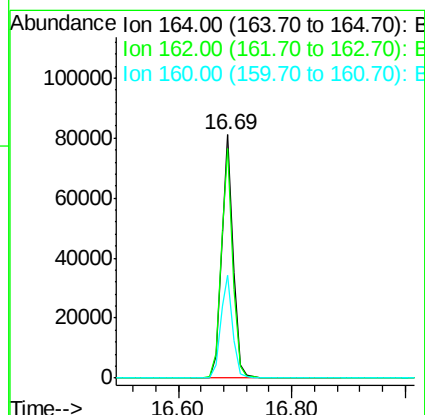
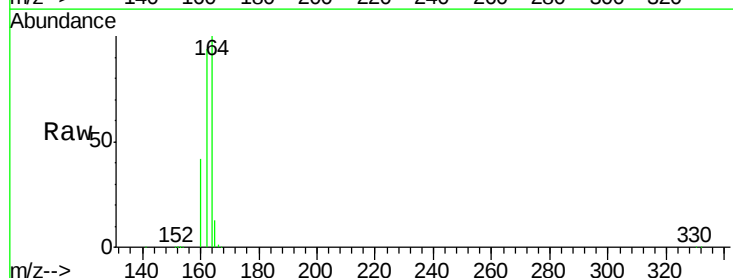
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Tgt Ion:	164	Resp:	117627
Ion	Ratio	Lower	Upper
164	100		
162	94.4	74.7	112.1
160	42.2	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.42 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :

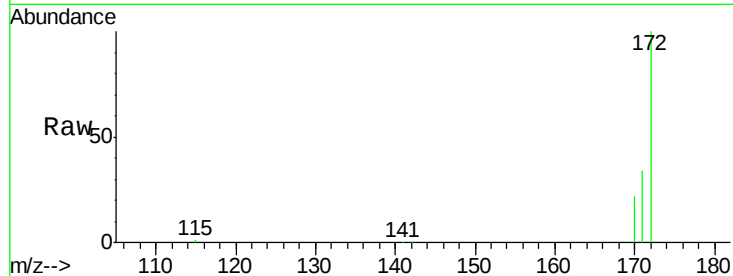
Tgt Ion:172 Resp: 229888

Ion Ratio Lower Upper

172 100

171 33.7 26.2 39.4

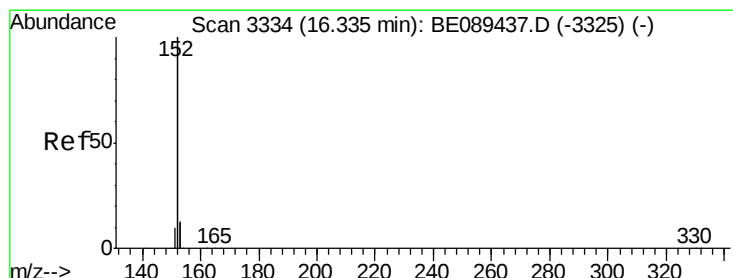
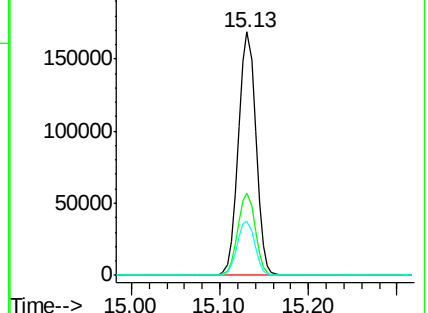
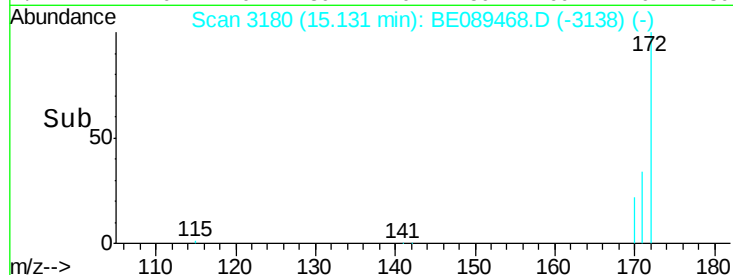
170 22.2 16.5 24.7



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: BE089468.D

Acq: 31 Jan 2015 12:52

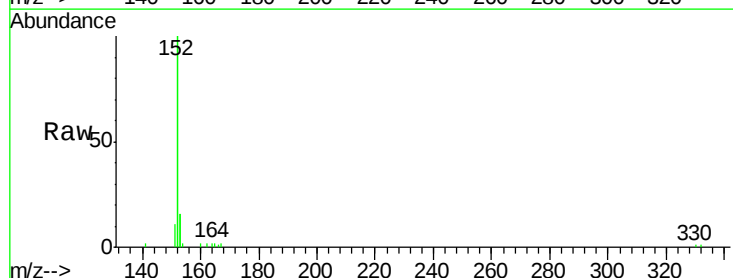
Tgt Ion:152 Resp: 11114

Ion Ratio Lower Upper

152 100

151 5.6 3.9 5.9

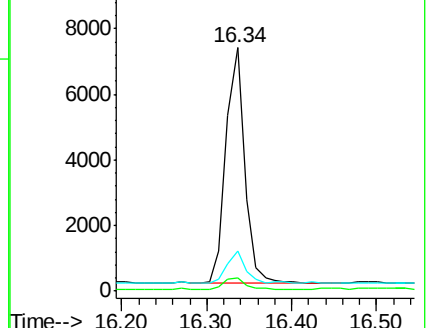
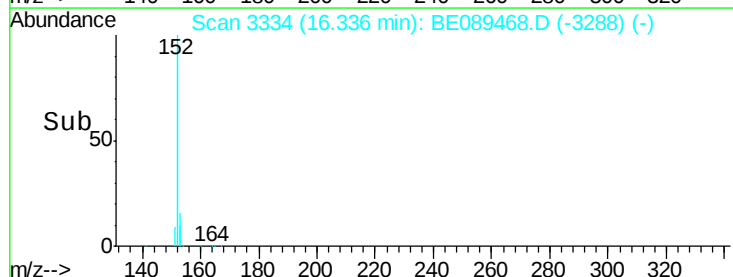
153 13.8 10.3 15.5



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: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :

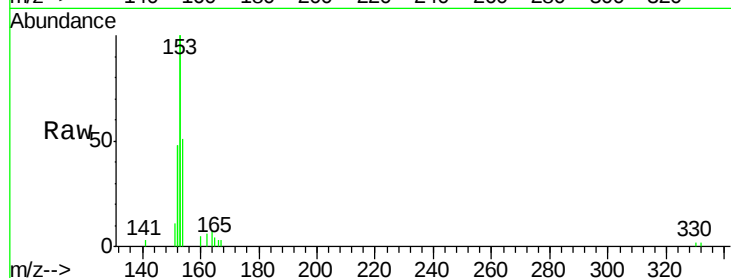
Tgt Ion:154 Resp: 1942

Ion Ratio Lower Upper

154 100

153 441.3 342.3 513.5

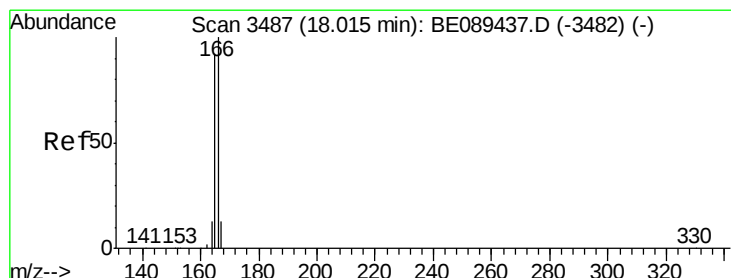
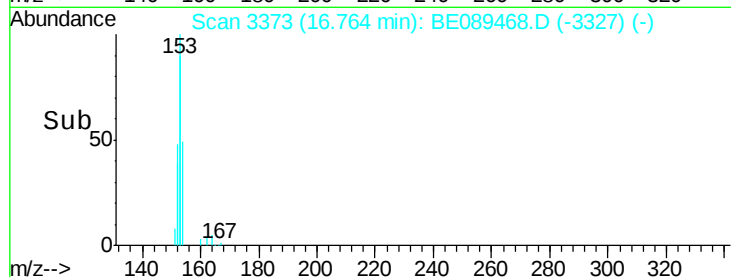
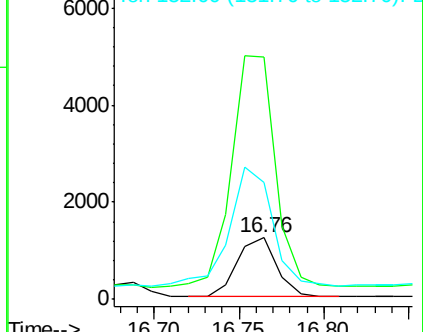
152 241.4 165.5 248.3



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: 0.06 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

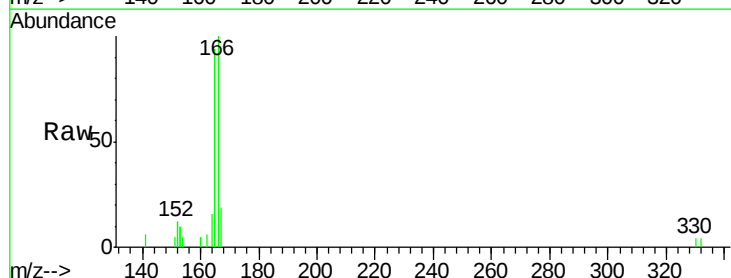
Tgt Ion:166 Resp: 2059

Ion Ratio Lower Upper

166 100

165 96.4 74.4 111.6

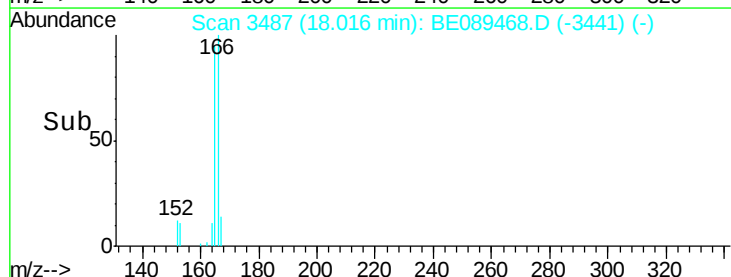
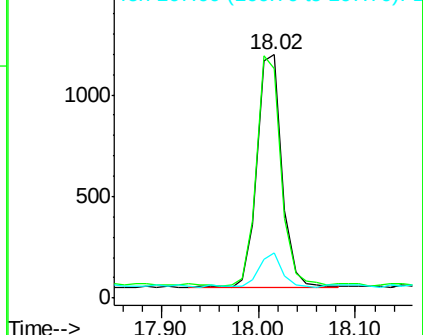
167 13.4 10.6 15.8



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

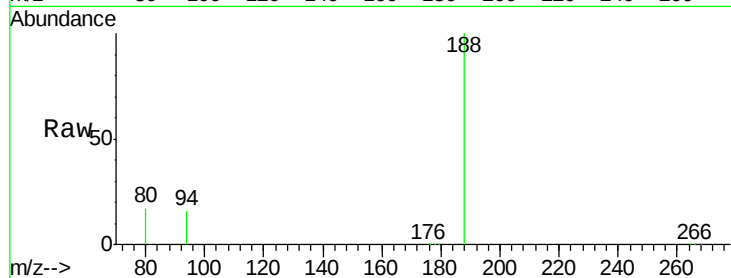




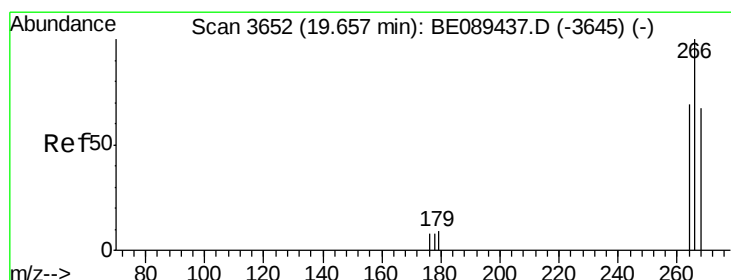
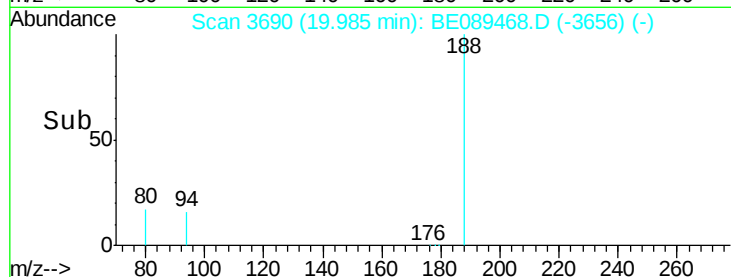
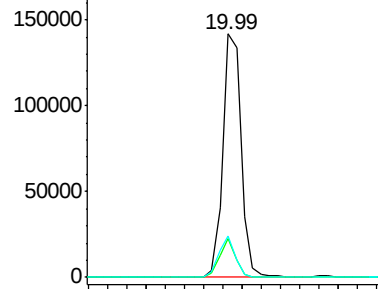
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089468.D
Acq: 31 Jan 2015 12:52

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 189101
Ion Ratio Lower Upper
188 100
94 15.7 9.4 14.0#
80 16.8 9.3 13.9#

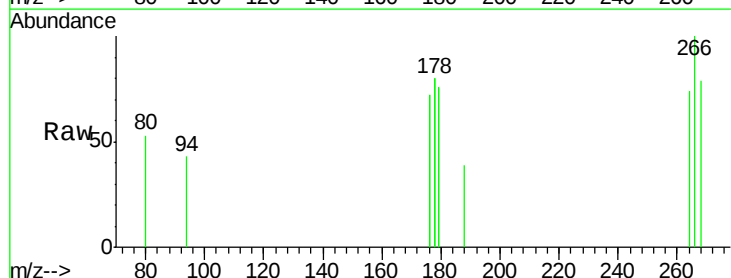


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

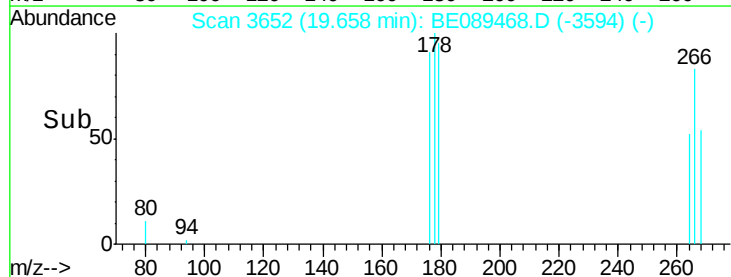
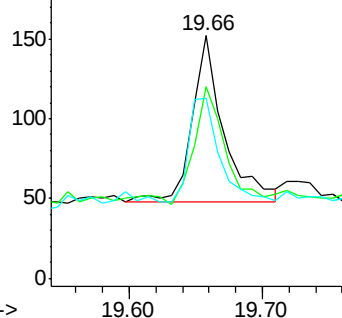


#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089468.D
Acq: 31 Jan 2015 12:52

Tgt Ion:266 Resp: 171
Ion Ratio Lower Upper
266 100
268 78.9 54.2 81.4
264 74.3 56.2 84.2



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E

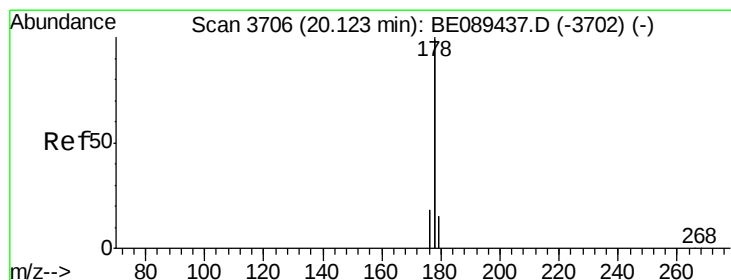
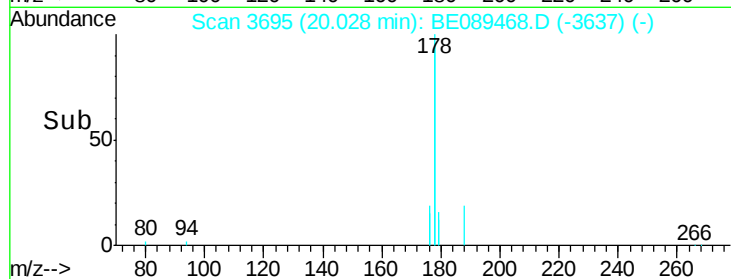
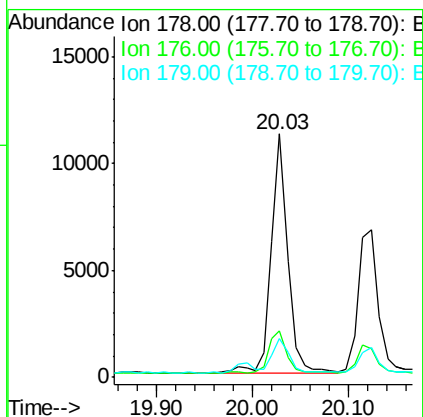
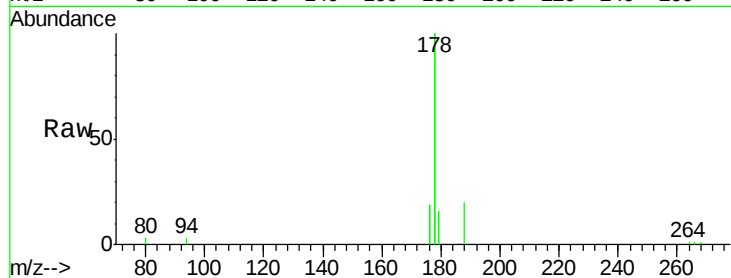




#13
Phenanthrene
Concen: 0.07 ng
RT: 20.03 min Scan# 3695
Delta R.T. 0.00 min
Lab File: BE089468.D
Acq: 31 Jan 2015 12:52

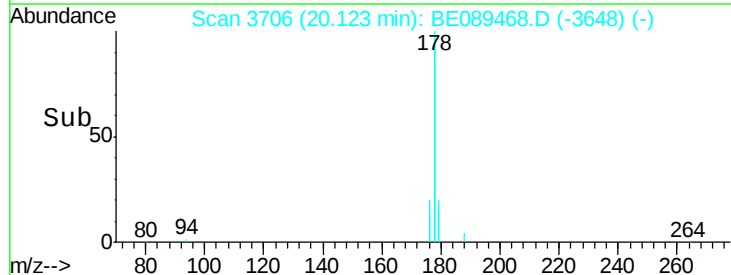
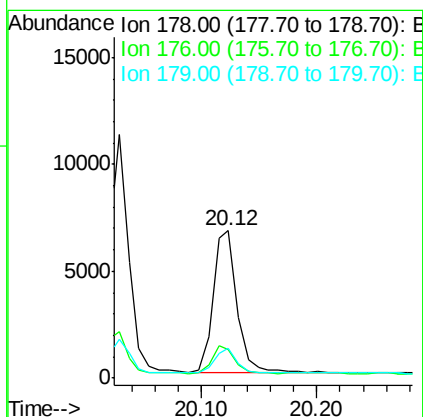
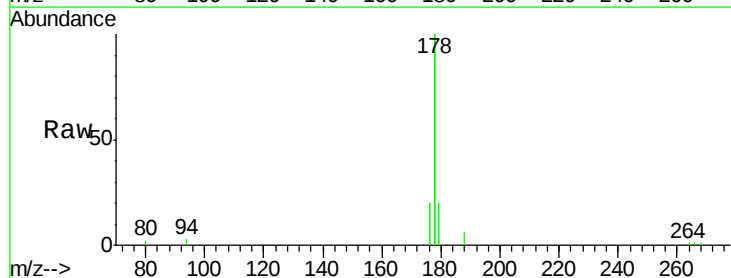
Instrument :
BNA_E
ClientSampleId :

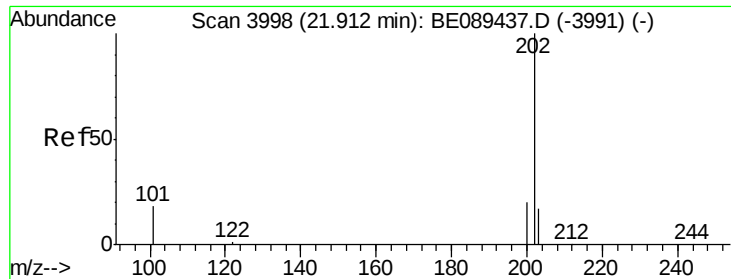
Tgt Ion:178 Resp: 13611
Ion Ratio Lower Upper
178 100
176 18.4 15.1 22.7
179 13.6 12.3 18.5



#14
Anthracene
Concen: 0.06 ng
RT: 20.12 min Scan# 3706
Delta R.T. 0.00 min
Lab File: BE089468.D
Acq: 31 Jan 2015 12:52

Tgt Ion:178 Resp: 9737
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.5 12.2 18.2





#15

Fluoranthene

Concen: 0.05 ng

RT: 21.91 min Scan# 3998

Delta R.T. 0.00 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :

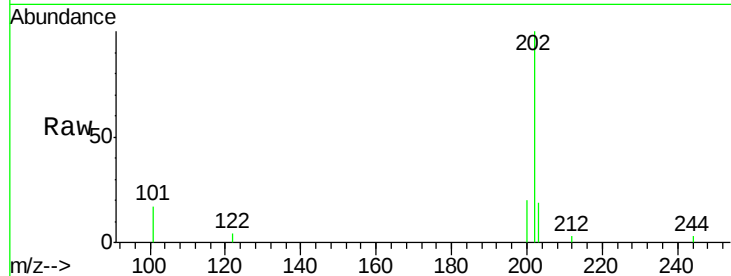
Tgt Ion:202 Resp: 2153

Ion Ratio Lower Upper

202 100

101 17.4 13.6 20.4

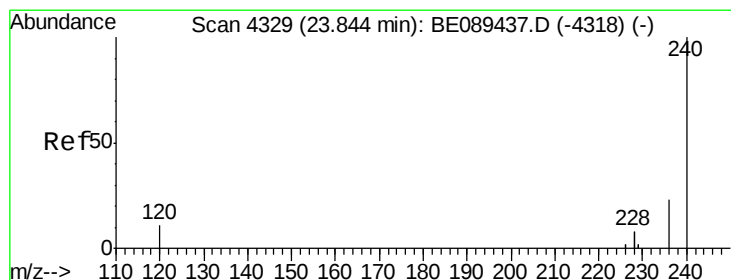
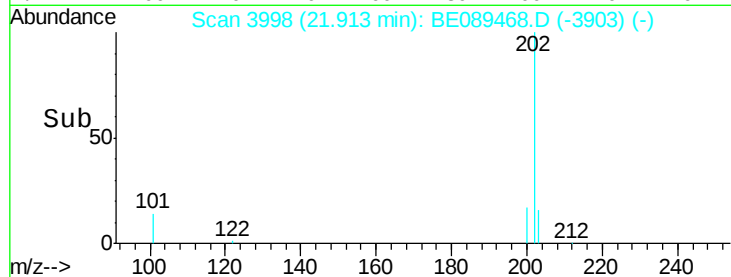
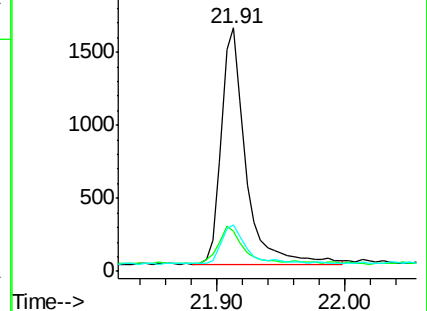
203 16.8 13.8 20.6



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. -0.01 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

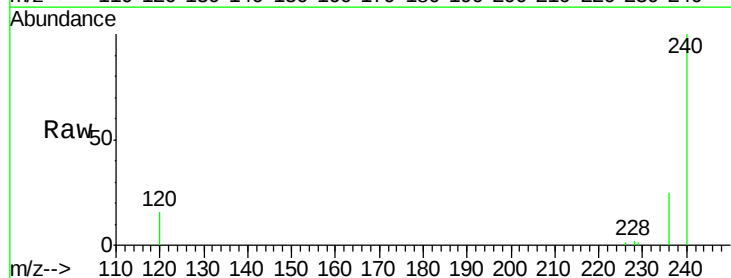
Tgt Ion:240 Resp: 144820

Ion Ratio Lower Upper

240 100

120 16.4 8.6 13.0#

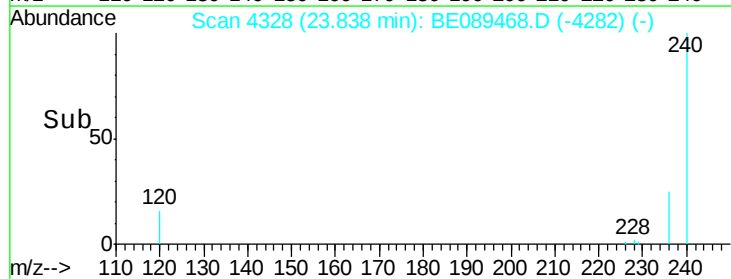
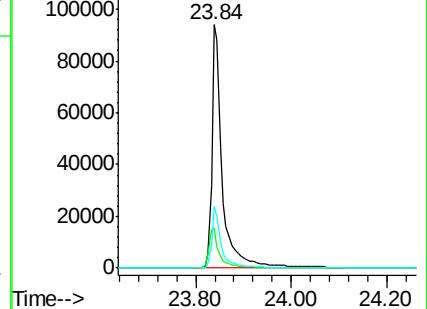
236 25.3 18.7 28.1



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: 0.06 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :

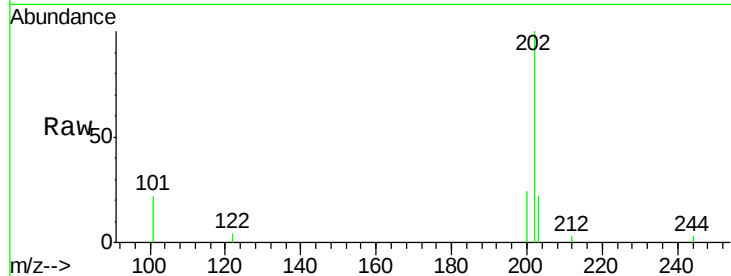
Tgt Ion:202 Resp: 2277

Ion Ratio Lower Upper

202 100

200 20.8 16.2 24.4

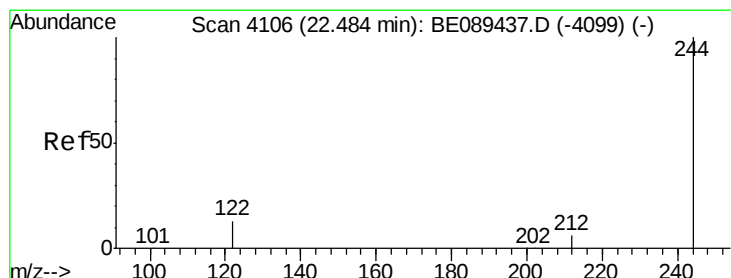
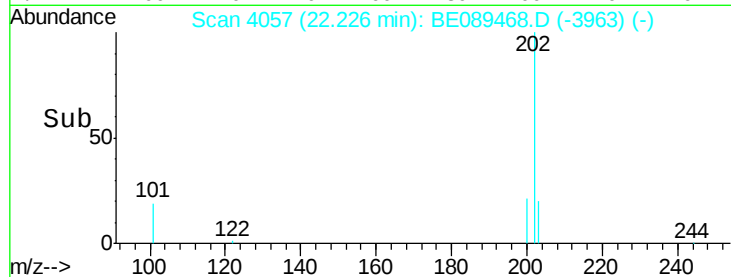
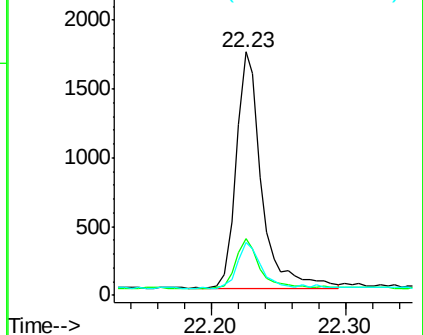
203 18.1 13.8 20.8



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: 8.96 ng

RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

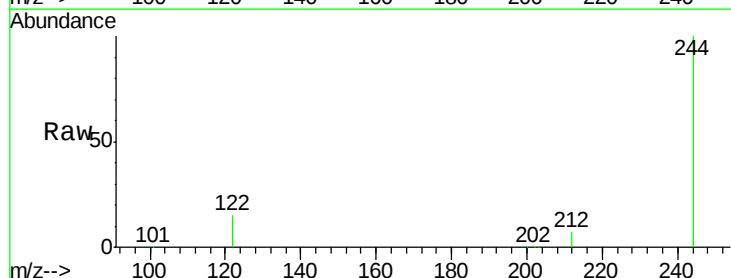
Tgt Ion:244 Resp: 194275

Ion Ratio Lower Upper

244 100

212 6.8 5.0 7.6

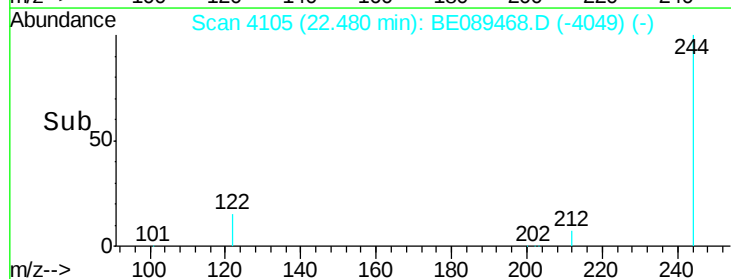
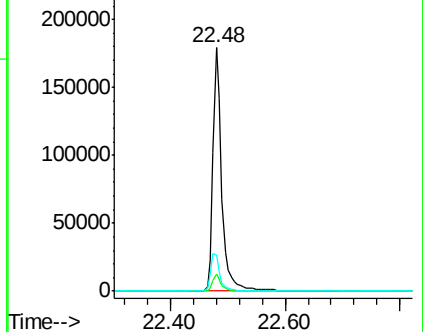
122 14.9 10.2 15.4



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: 0.05 ng

RT: 23.83 min Scan# 4327

Delta R.T. 0.00 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :

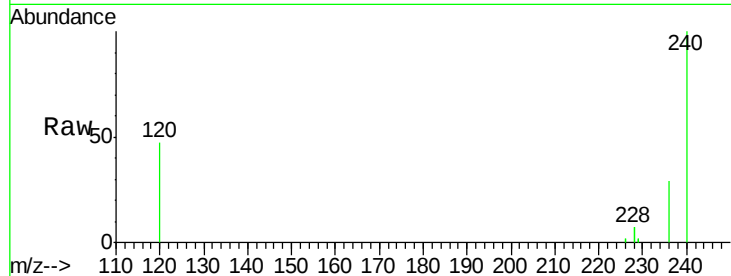
Tgt Ion:228 Resp: 6462

Ion Ratio Lower Upper

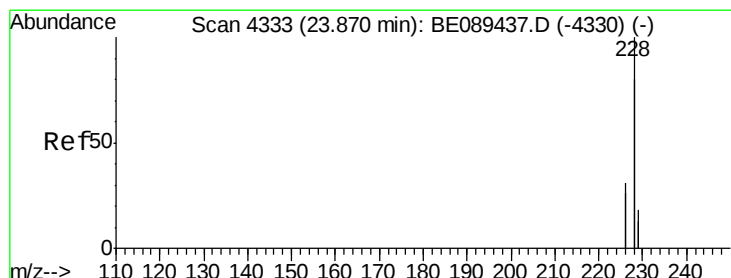
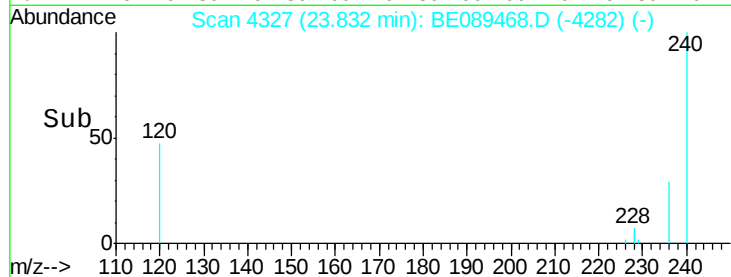
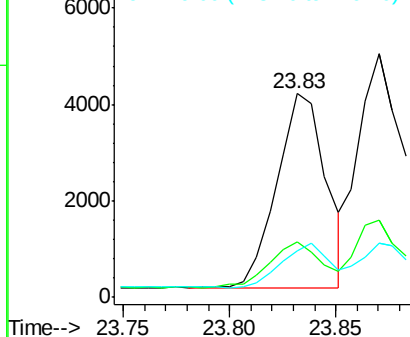
228 100

226 27.0 20.0 30.0

229 22.9 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: 0.08 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

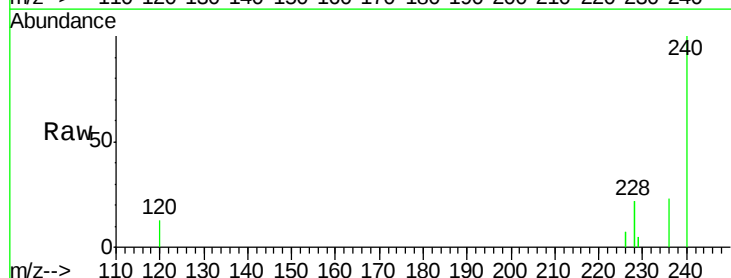
Tgt Ion:228 Resp: 10910

Ion Ratio Lower Upper

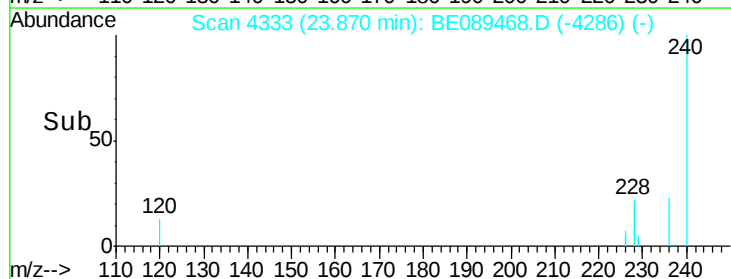
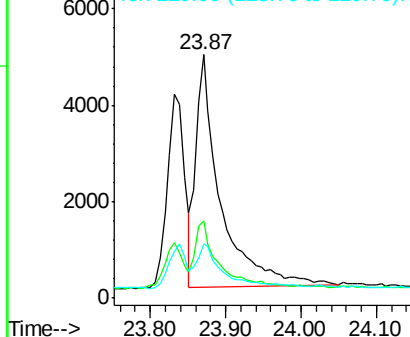
228 100

226 31.5 24.5 36.7

229 22.4 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: 0.02 ng

RT: 27.06 min Scan# 4949

Delta R.T. -0.01 min

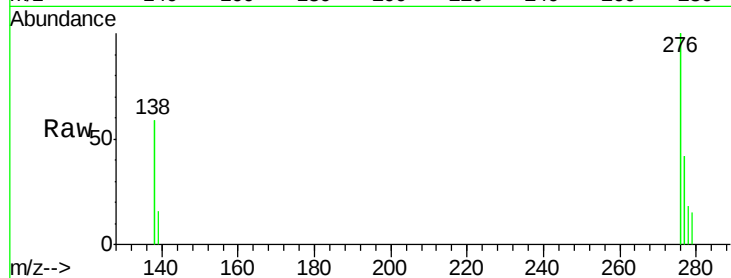
Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :



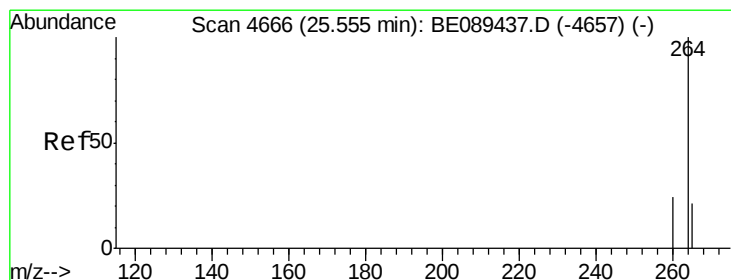
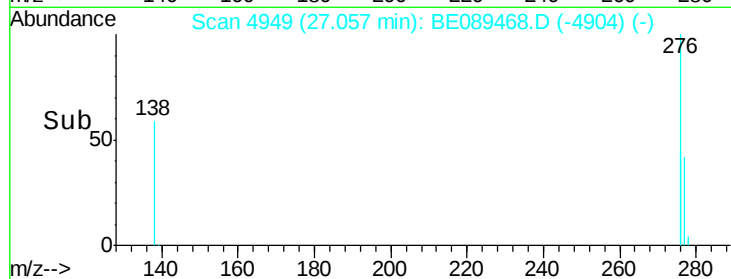
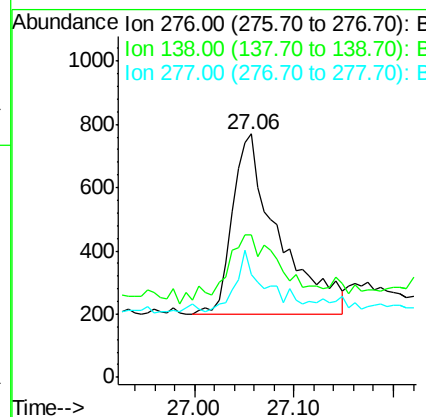
Tgt Ion: 276 Resp: 1843

Ion Ratio Lower Upper

276 100

138 46.7 25.4 38.0#

277 21.9 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: BE089468.D

Acq: 31 Jan 2015 12:52

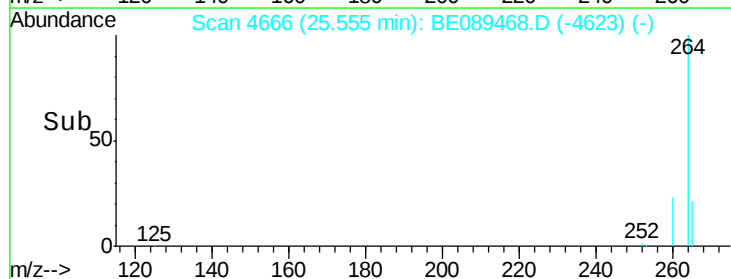
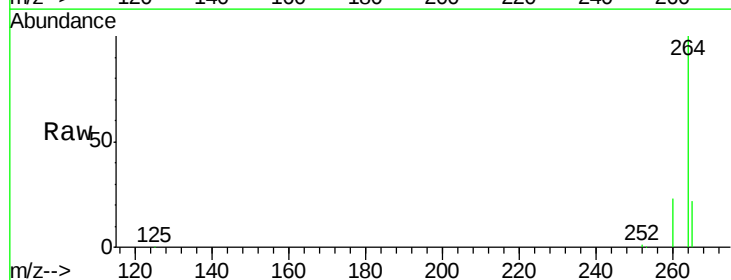
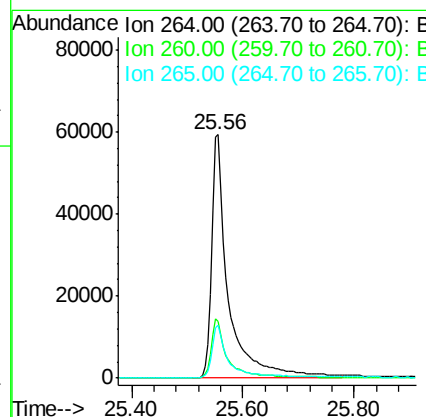
Tgt Ion: 264 Resp: 123199

Ion Ratio Lower Upper

264 100

260 23.3 19.4 29.0

265 21.6 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: BE089468.D

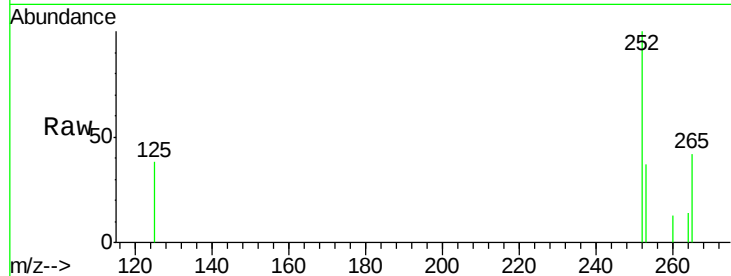
Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :

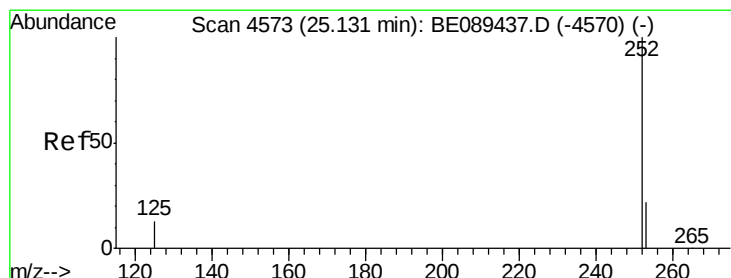
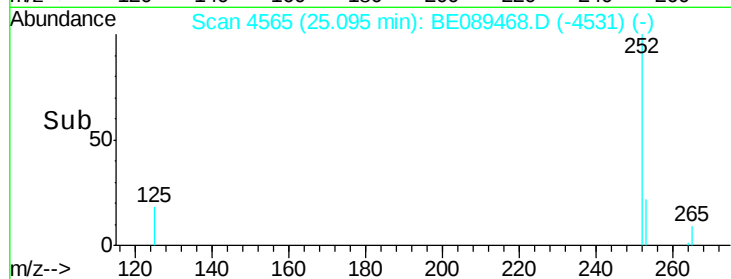
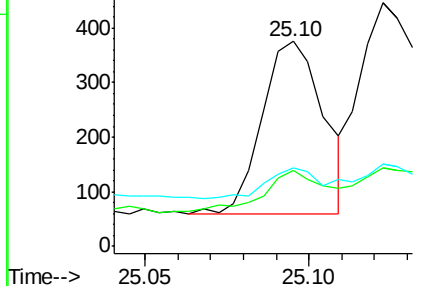
Tgt Ion:	252	Resp:	415
Ion	Ratio	Lower	Upper
252	100		
253	37.3	17.0	25.6#
125	38.1	11.4	17.0#



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

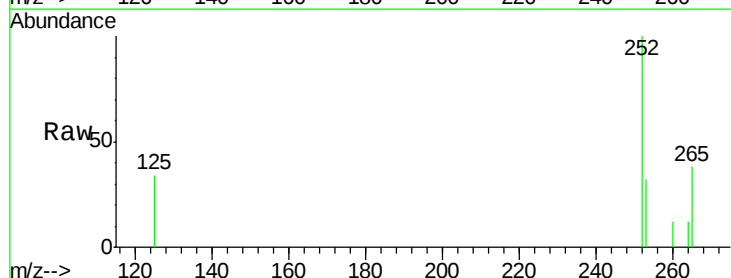
RT: 25.12 min Scan# 4571

Delta R.T. -0.01 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

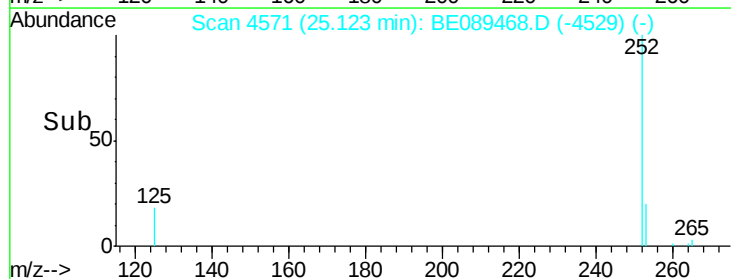
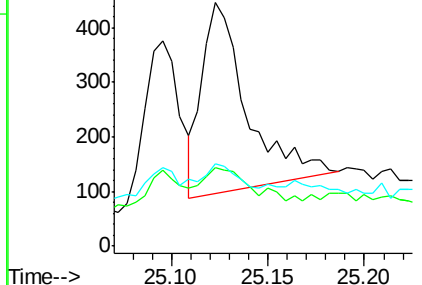
Tgt Ion:	252	Resp:	571
Ion	Ratio	Lower	Upper
252	100		
253	32.3	17.4	26.2#
125	33.6	10.9	16.3#

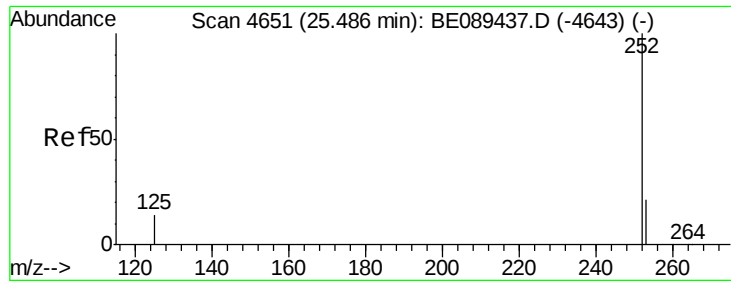


Abundance Ion 252.00 (251.70 to 252.70): E

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: 25.48 min Scan# 4649

Delta R.T. -0.01 min

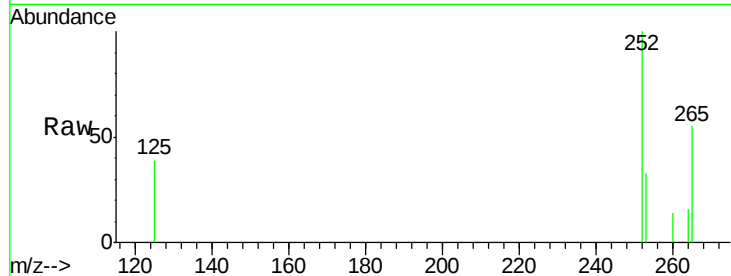
Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

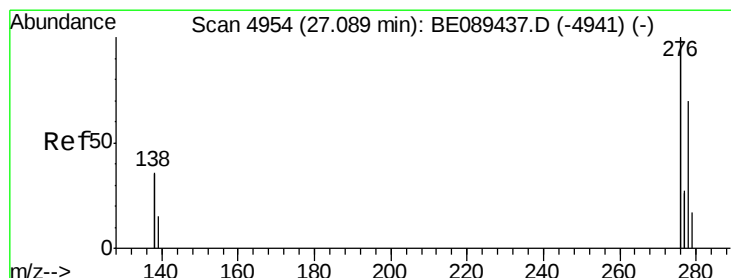
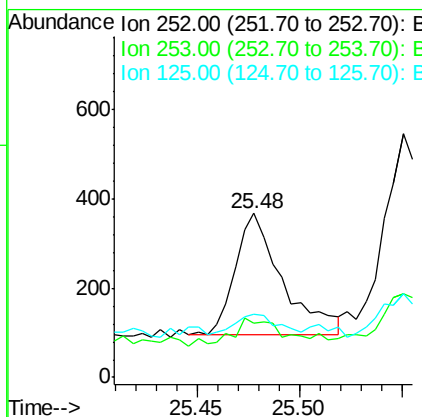
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	252	Resp:	437
Ion	Ratio	Lower	Upper
252	100		
253	33.2	17.3	25.9#
125	39.0	12.0	18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

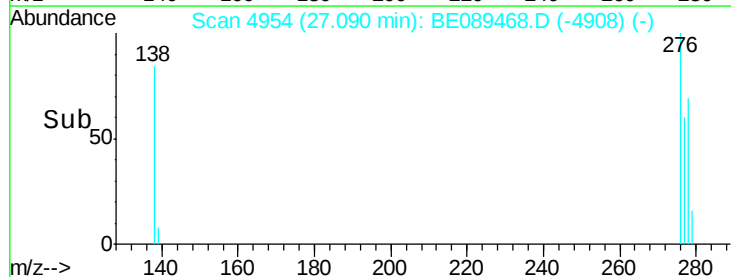
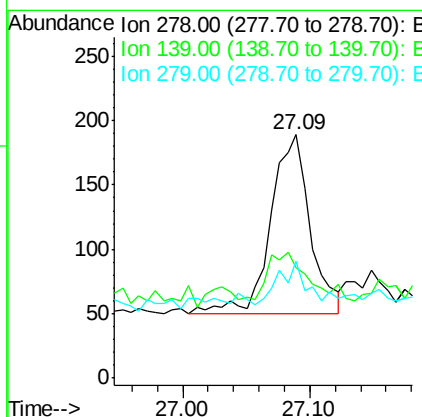
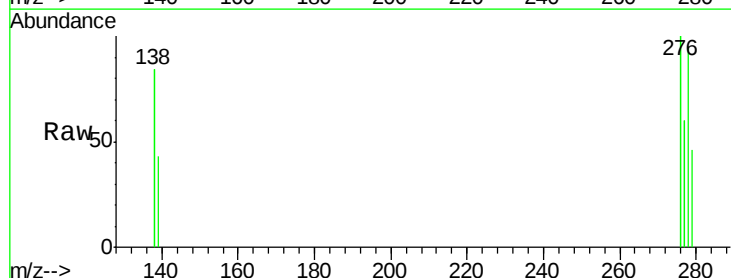
RT: 27.09 min Scan# 4954

Delta R.T. 0.00 min

Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Tgt Ion:	278	Resp:	302
Ion	Ratio	Lower	Upper
278	100		
139	45.5	17.0	25.4#
279	48.1	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

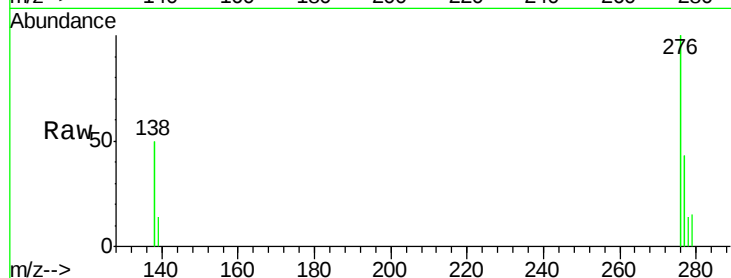
Lab File: BE089468.D

Acq: 31 Jan 2015 12:52

Instrument :

BNA_E

ClientSampleId :



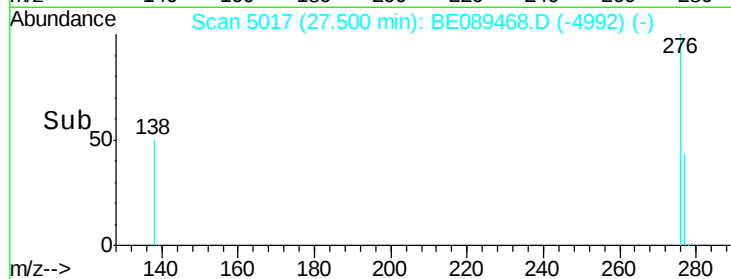
Tgt Ion: 276 Resp: 2351

Ion Ratio Lower Upper

276 100

277 42.7 18.4 27.6#

138 50.1 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

