

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089564.D
 Acq On : 7 Feb 2015 18:31
 Operator : TP/IZ
 Sample : MDL-02-W
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

Quant Time: Feb 09 00:19:57 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	50383	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	185031	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	75201	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	113096	5.00	ng	0.00
16) Chrysene-d12	23.72	240	133460	5.00	ng	0.00
22) Perylene-d12	25.41	264	157336	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	111578	9.08	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	158539	7.90	ng	0.00
18) Terphenyl-d14	22.36	244	147013	8.35	ng	0.00

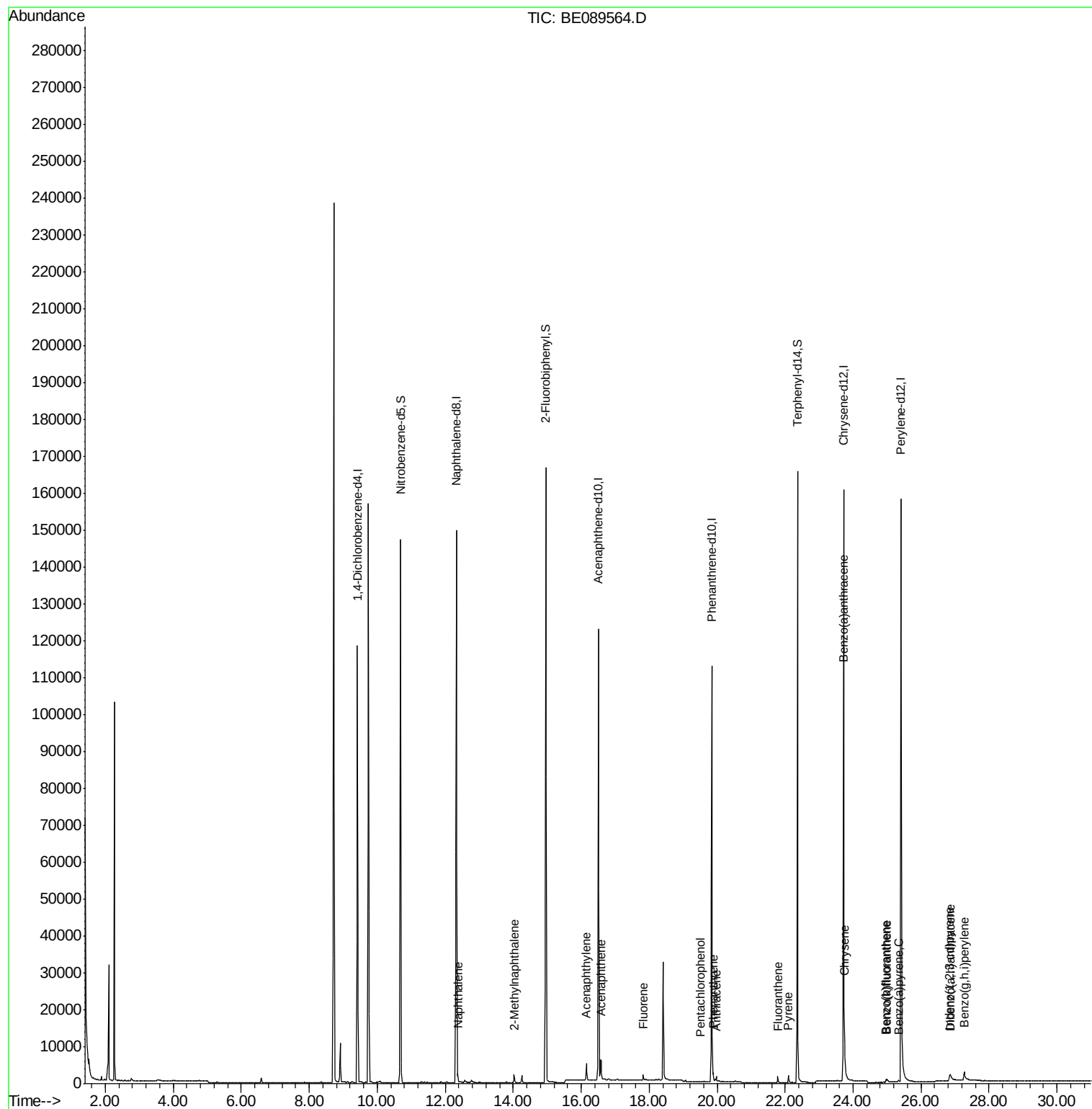
Target Compounds						Qvalue
4) Naphthalene	12.37	128	2928	0.07	ng	# 95
5) 2-Methylnaphthalene	14.03	142	1512	0.06	ng	# 94
8) Acenaphthylene	16.16	152	6611	0.05	ng	96
9) Acenaphthene	16.59	154	1136	0.06	ng	# 76
10) Fluorene	17.83	166	1179	0.06	ng	97
12) Pentachlorophenol	19.52	266	7	0.54	ng	# 75
13) Phenanthrene	19.89	178	1885	0.07	ng	98
14) Anthracene	19.98	178	1379	0.06	ng	100
15) Fluoranthene	21.78	202	1412	0.05	ng	100
17) Pyrene	22.10	202	1551	0.05	ng	100
19) Benzo(a)anthracene	23.70	228	7096	0.06	ng	# 94
20) Chrysene	23.75	228	8707	0.07	ng	92
21) Indeno(1,2,3-cd)pyrene	26.84	276	4332	0.03	ng	97
23) Benzo(b)fluoranthene	24.97	252	820	0.03	ng	# 84
24) Benzo(k)fluoranthene	25.00	252	1472	0.04	ng	# 84
25) Benzo(a)pyrene	25.34	252	866	0.03	ng	# 80
26) Dibenzo(a,h)anthracene	26.87	278	865	0.02	ng	# 59
27) Benzo(g,h,i)perylene	27.27	276	5898	0.04	ng	# 76

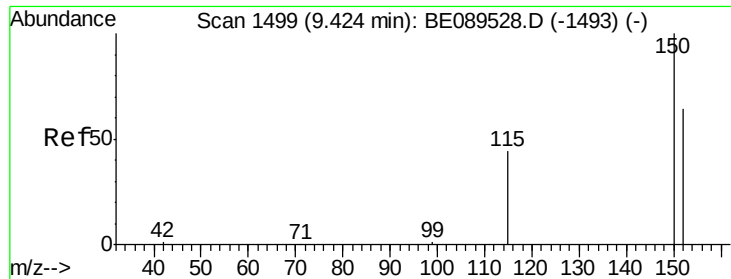
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1497

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

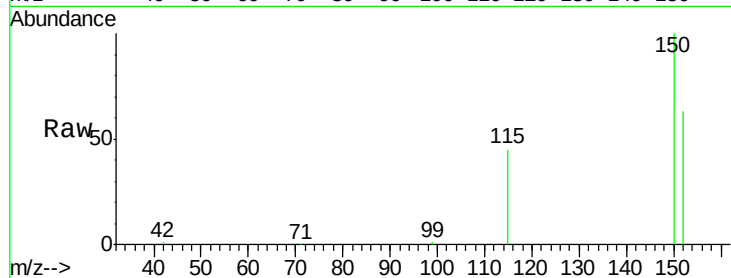
Tgt Ion:152 Resp: 50383

Ion Ratio Lower Upper

152 100

150 158.6 125.7 188.5

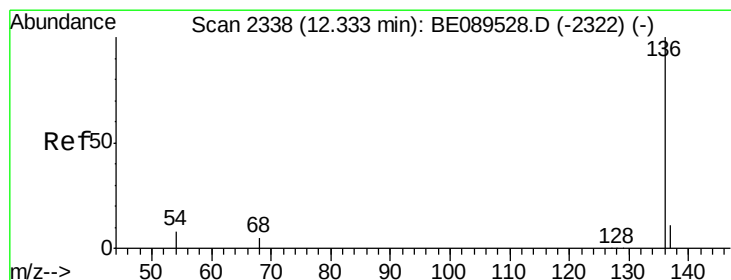
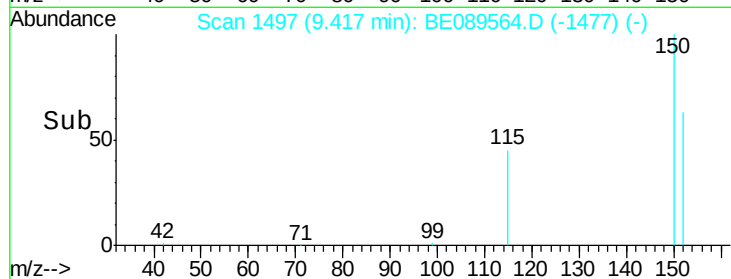
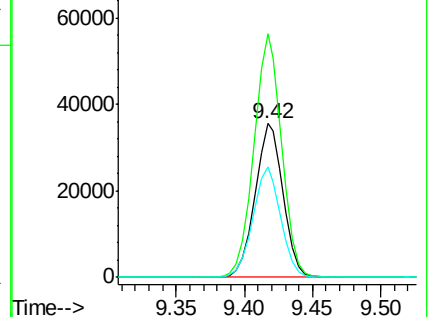
115 72.0 55.6 83.4



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: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

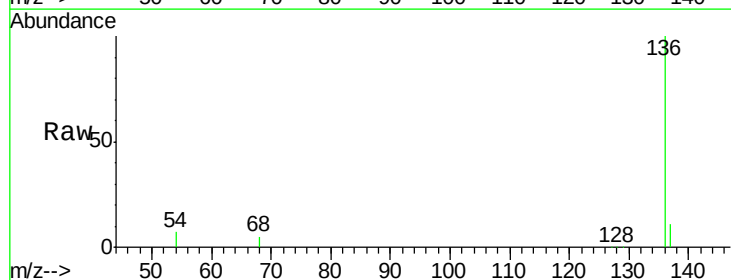
Tgt Ion:136 Resp: 185031

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

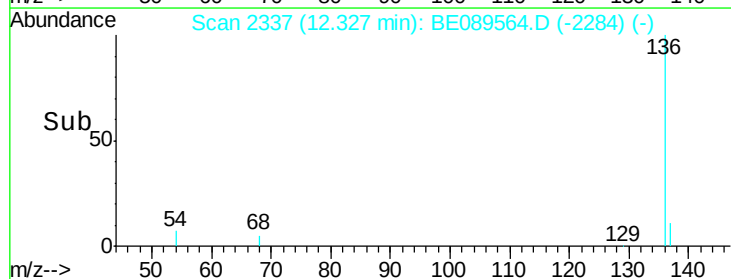
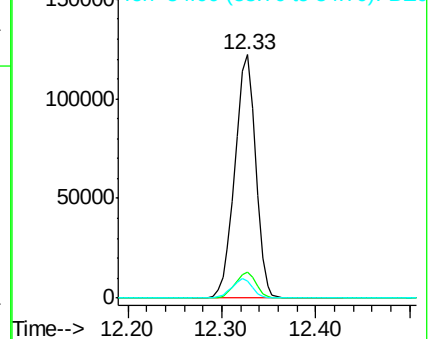
54 7.0 6.1 9.1

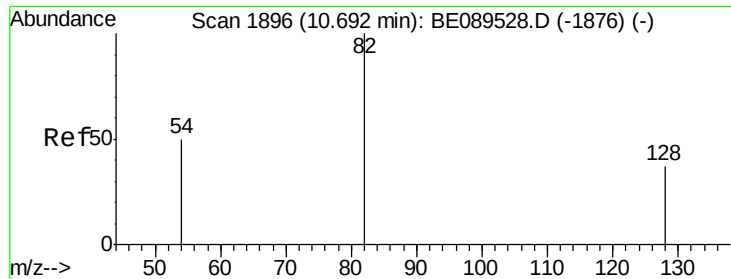


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 9.08 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

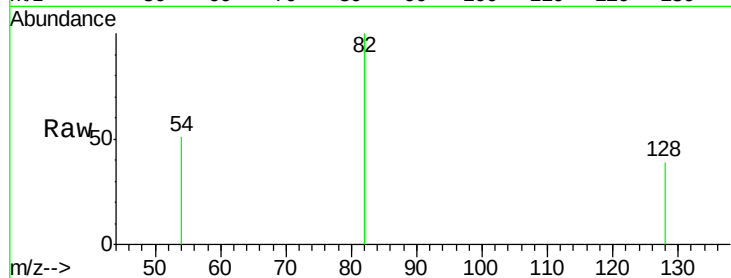
Tgt Ion: 82 Resp: 111578

Ion Ratio Lower Upper

82 100

128 39.3 30.2 45.4

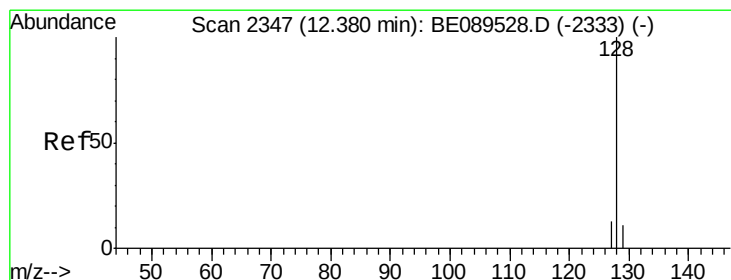
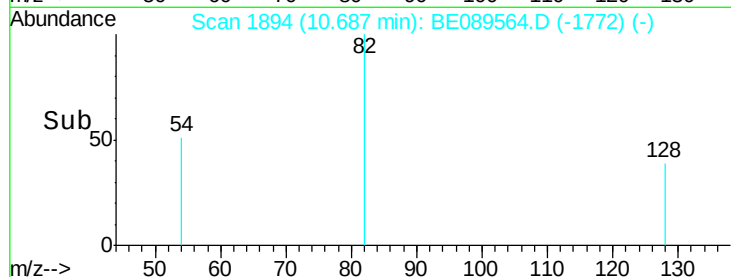
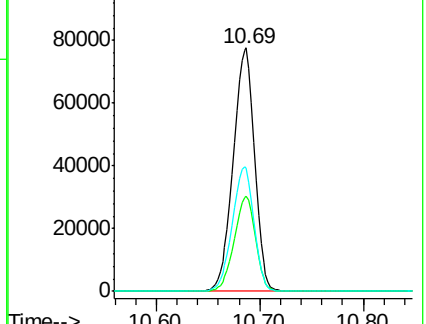
54 50.7 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE089528.D (-1876) (-)

Ion 128.00 (127.70 to 128.70): BE089528.D (-1876) (-)

Ion 54.00 (53.70 to 54.70): BE089528.D (-1876) (-)



#4

Naphthalene

Concen: 0.07 ng

RT: 12.37 min Scan# 2345

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

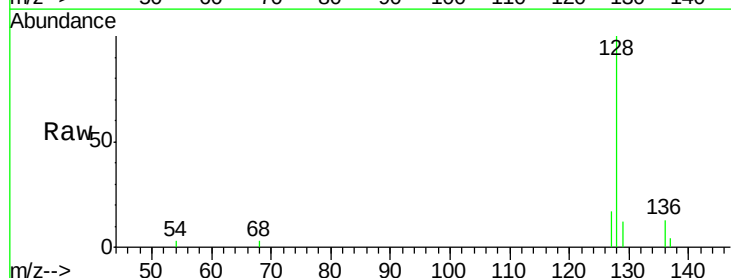
Tgt Ion: 128 Resp: 2928

Ion Ratio Lower Upper

128 100

129 11.9 9.1 13.7

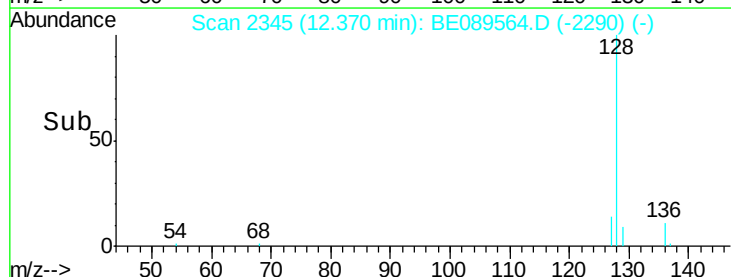
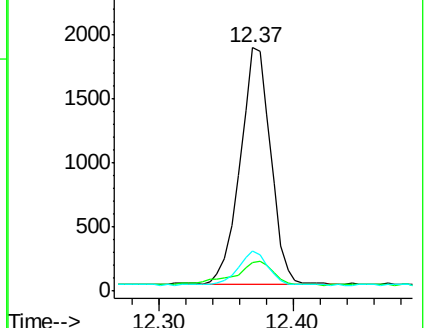
127 16.5 10.5 15.7#

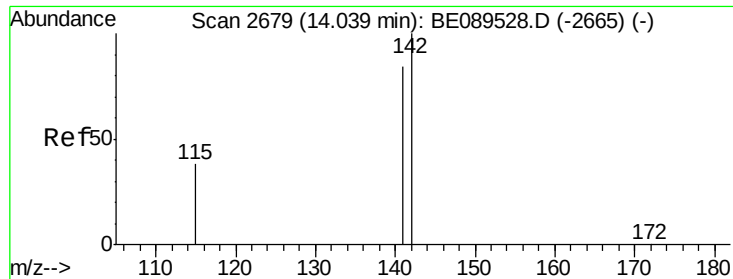


Abundance Ion 128.00 (127.70 to 128.70): BE089528.D (-2333) (-)

Ion 129.00 (128.70 to 129.70): BE089528.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): BE089528.D (-2333) (-)





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.03 min Scan# 2677

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

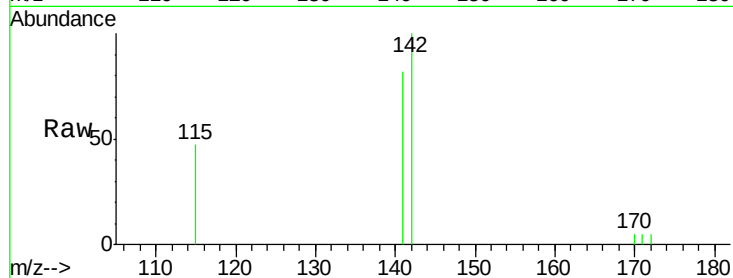
Tgt Ion:142 Resp: 1512

Ion Ratio Lower Upper

142 100

141 81.9 67.0 100.6

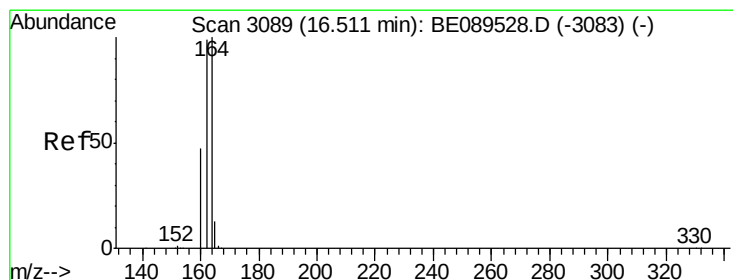
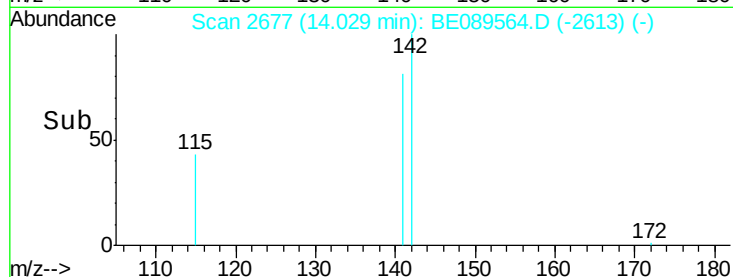
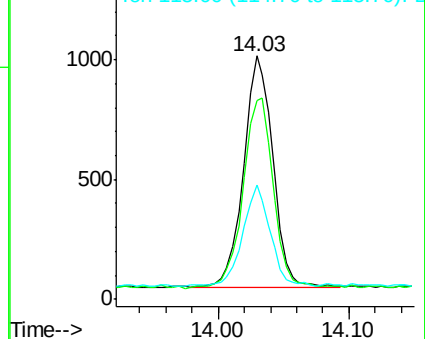
115 46.8 30.6 45.8#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3089

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

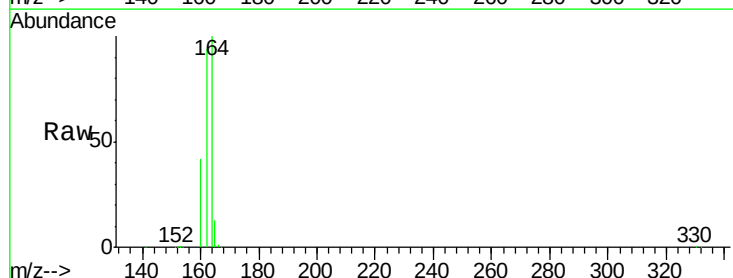
Tgt Ion:164 Resp: 75201

Ion Ratio Lower Upper

164 100

162 94.2 79.5 119.3

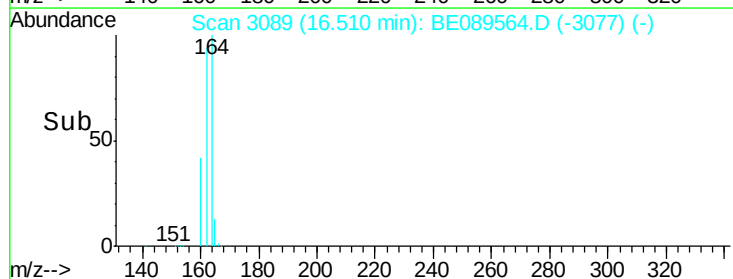
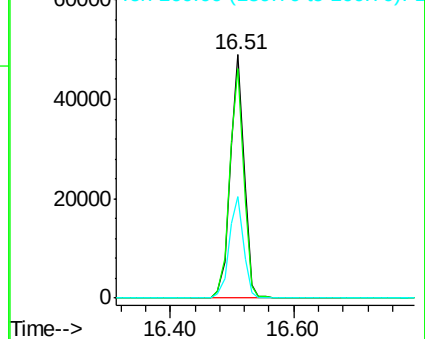
160 41.9 37.6 56.4

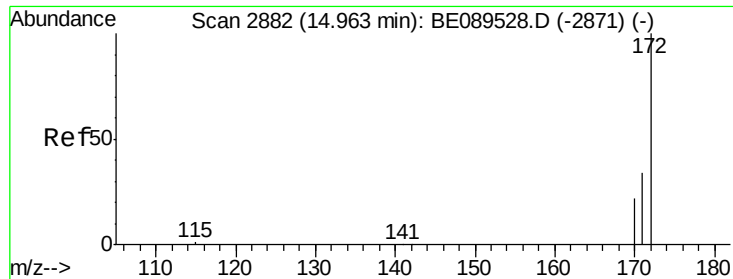


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.90 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

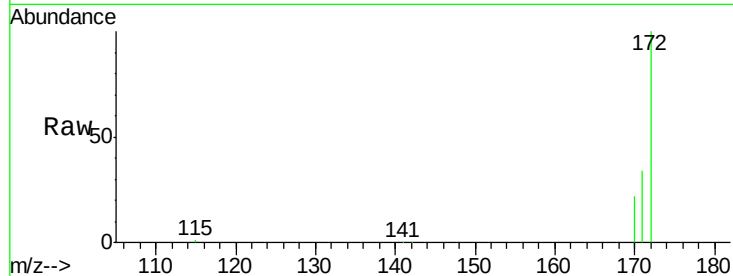
Tgt Ion:172 Resp: 158539

Ion Ratio Lower Upper

172 100

171 33.8 27.7 41.5

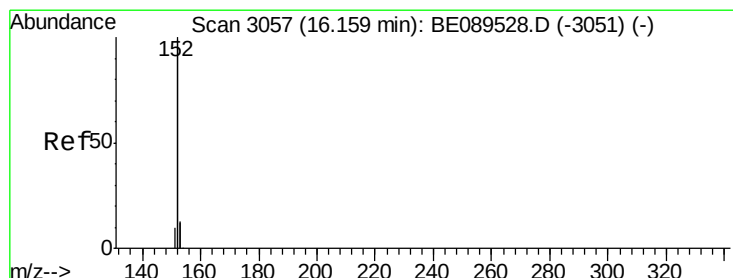
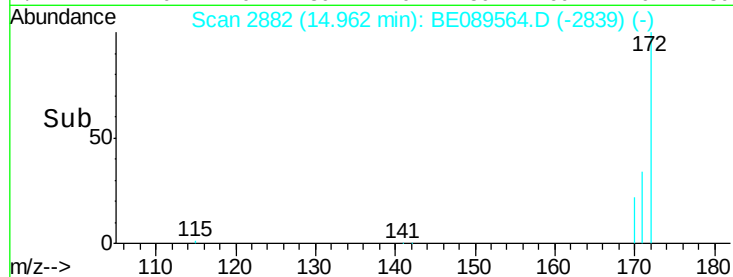
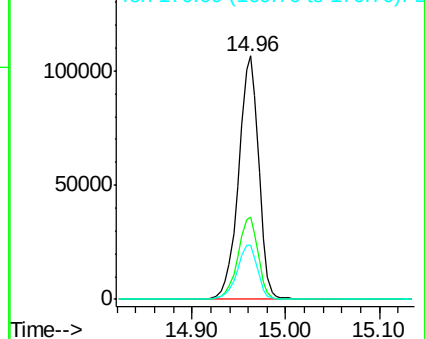
170 22.0 18.3 27.5



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: 16.16 min Scan# 3057

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

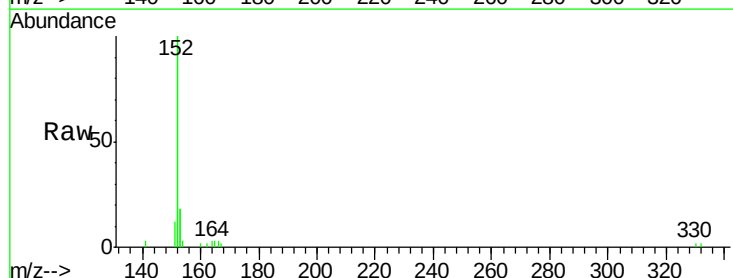
Tgt Ion:152 Resp: 6611

Ion Ratio Lower Upper

152 100

151 5.0 4.0 6.0

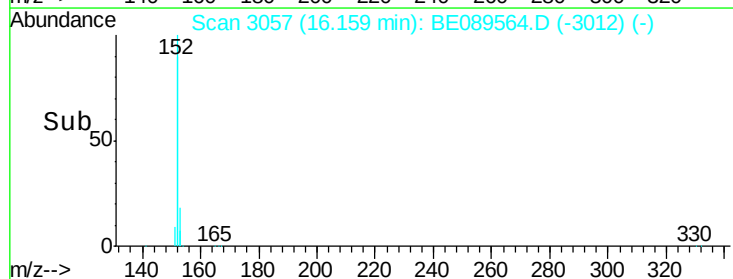
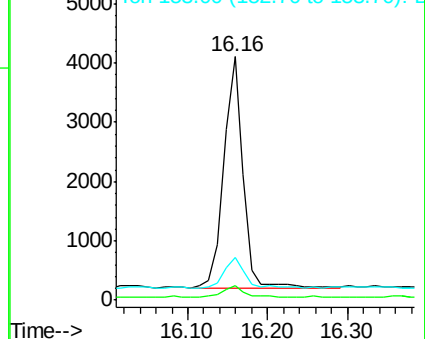
153 15.2 10.6 15.8

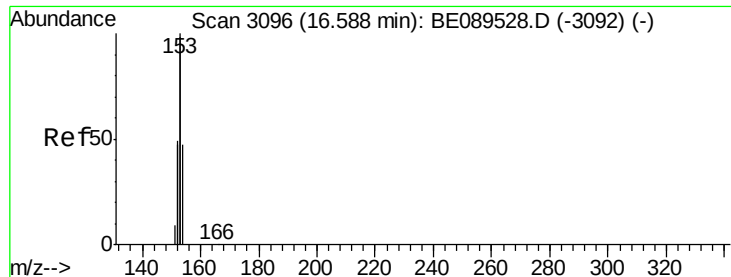


Abundance Ion 152.00 (151.70 to 152.70): E

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: 16.59 min Scan# 3096

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

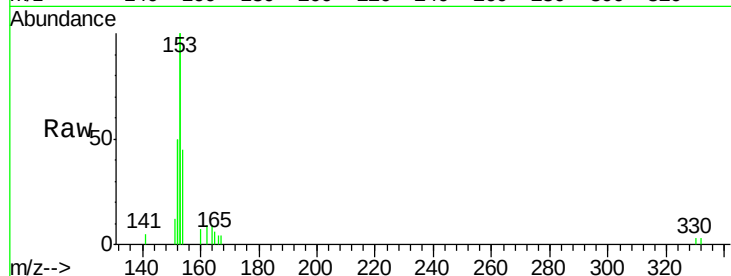
Tgt Ion:154 Resp: 1136

Ion Ratio Lower Upper

154 100

153 480.3 340.8 511.2

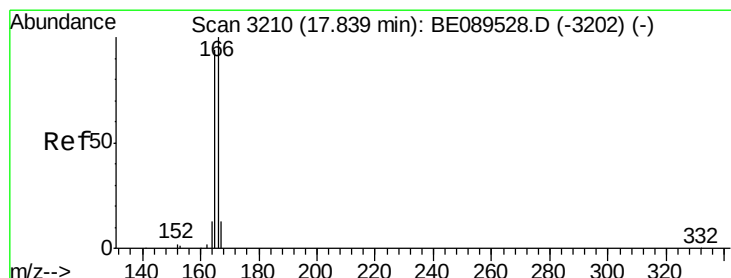
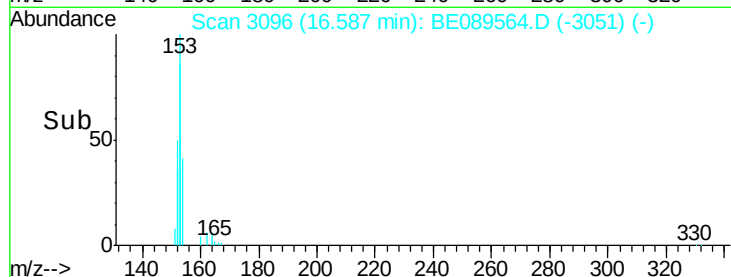
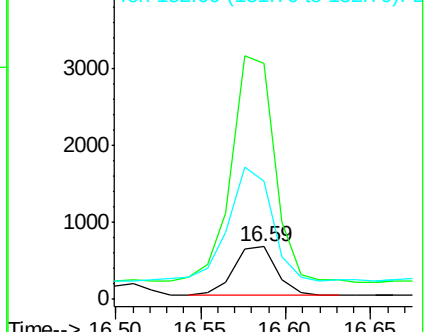
152 252.7 165.5 248.3#



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: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

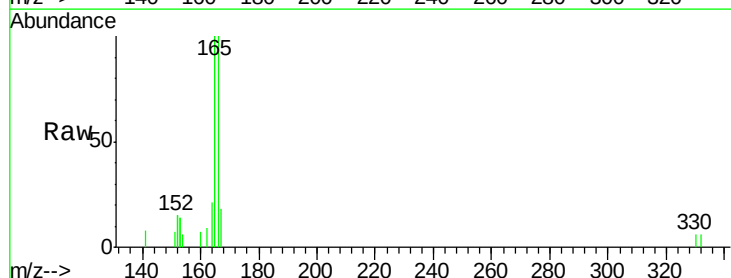
Tgt Ion:166 Resp: 1179

Ion Ratio Lower Upper

166 100

165 97.2 75.5 113.3

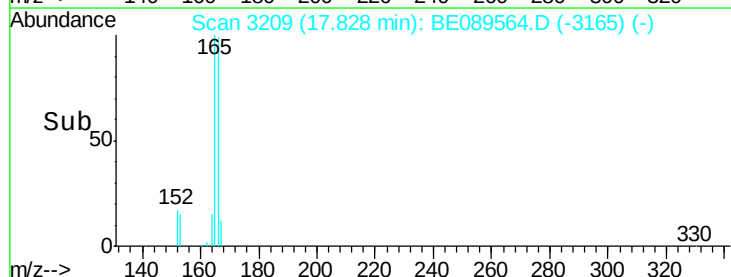
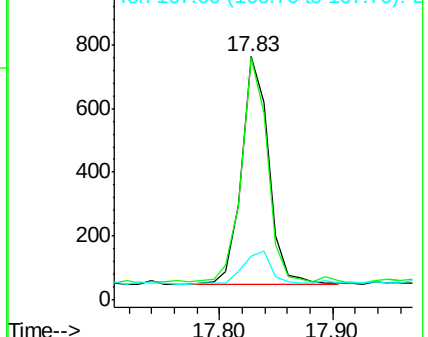
167 15.2 10.9 16.3

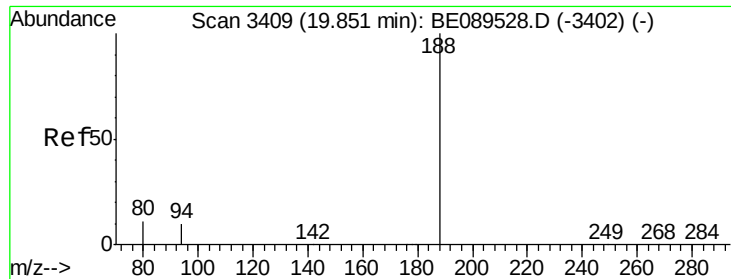


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

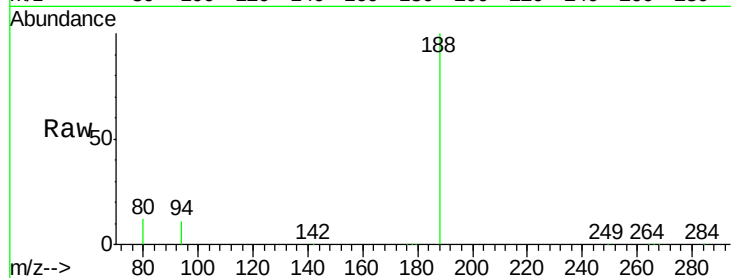




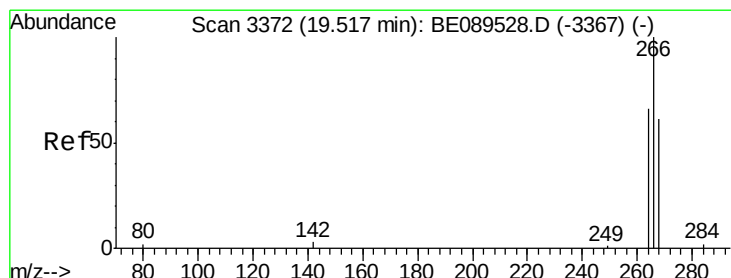
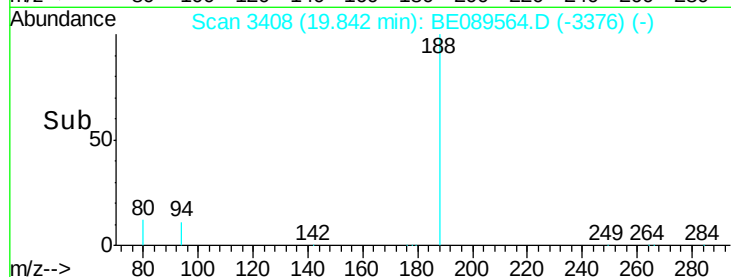
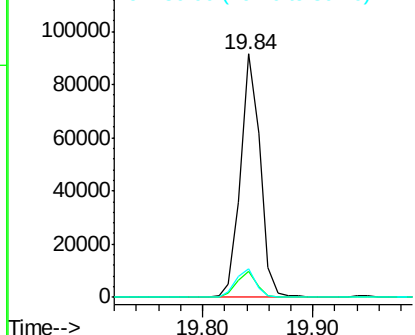
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.01 min
Lab File: BE089564.D
Acq: 7 Feb 2015 18:31

Instrument :
BNA_E
ClientSampleId :
MDL-03-W

Tgt Ion:188 Resp: 113096
Ion Ratio Lower Upper
188 100
94 10.9 8.4 12.6
80 11.8 8.6 12.8

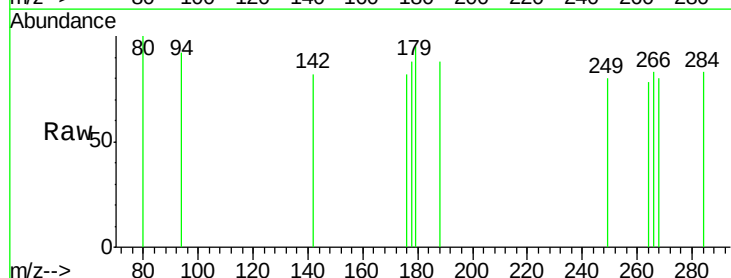


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

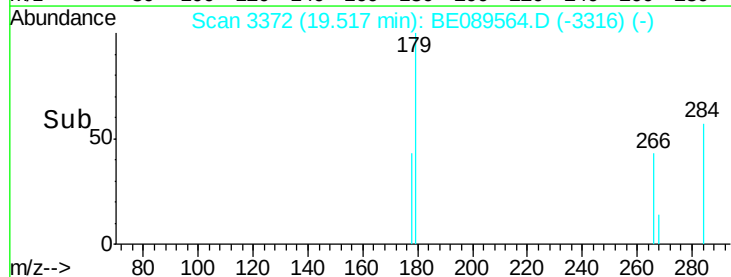
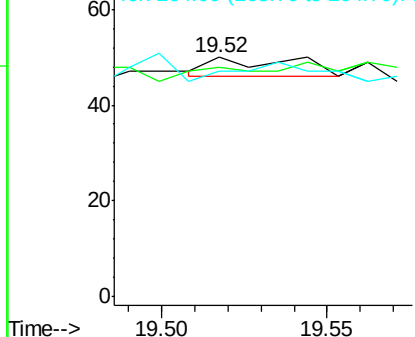


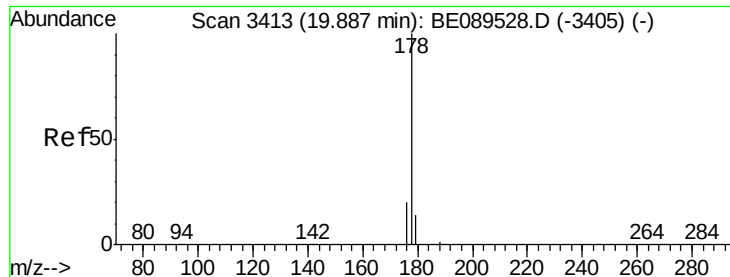
#12
Pentachlorophenol
Concen: 0.54 ng
RT: 19.52 min Scan# 3372
Delta R.T. 0.00 min
Lab File: BE089564.D
Acq: 7 Feb 2015 18:31

Tgt Ion:266 Resp: 7
Ion Ratio Lower Upper
266 100
268 96.0 57.9 86.9#
264 94.0 60.2 90.4#



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: 19.89 min Scan# 3413

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

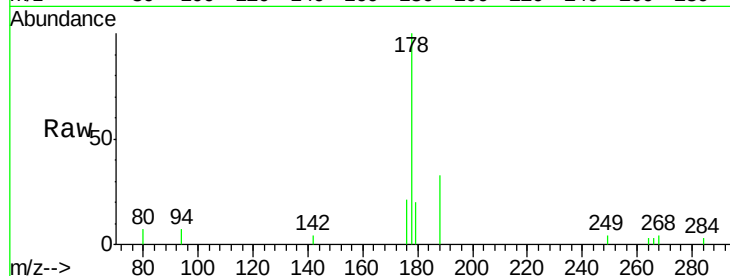
Tgt Ion:178 Resp: 1885

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.0

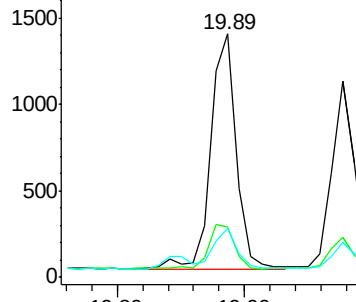
179 16.3 12.2 18.2



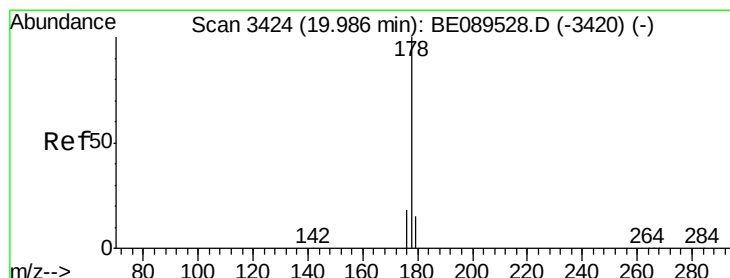
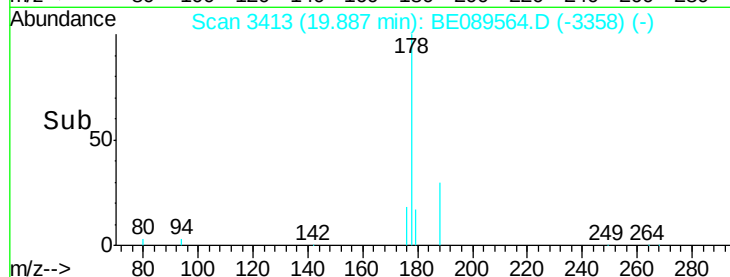
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#14

Anthracene

Concen: 0.06 ng

RT: 19.98 min Scan# 3423

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

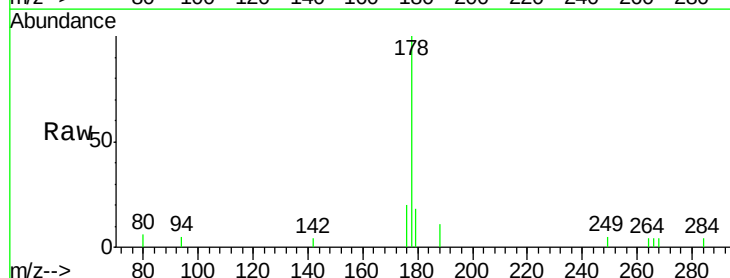
Tgt Ion:178 Resp: 1379

Ion Ratio Lower Upper

178 100

176 17.8 14.5 21.7

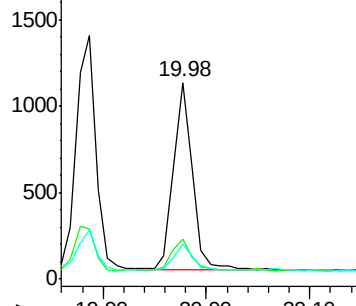
179 15.1 12.2 18.2



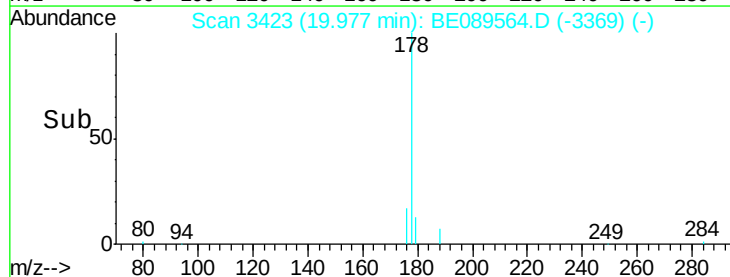
Abundance Ion 178.00 (177.70 to 178.70): E

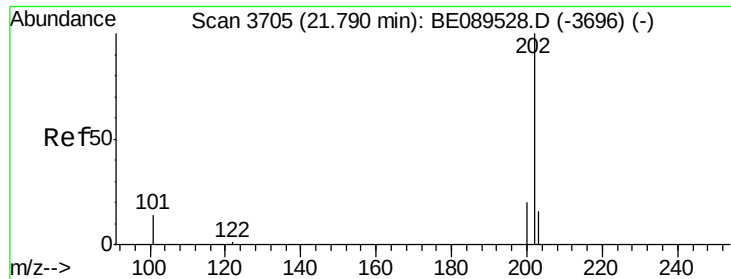
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->

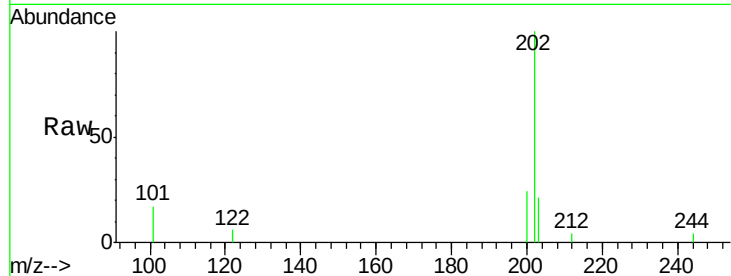




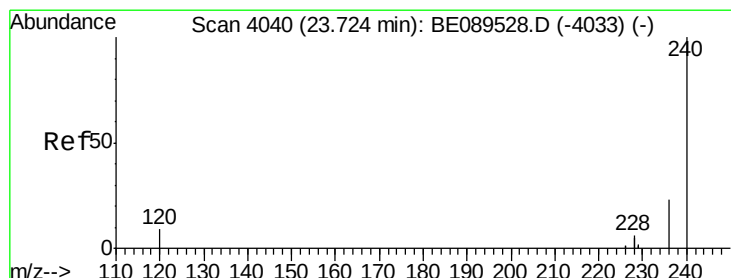
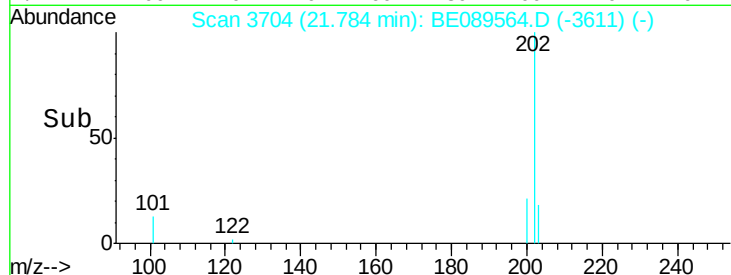
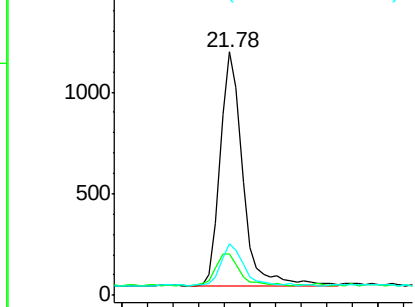
#15
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.78 min Scan# 3704
 Delta R.T. -0.01 min
 Lab File: BE089564.D
 Acq: 7 Feb 2015 18:31

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

Tgt Ion: 202 Resp: 1412
 Ion Ratio Lower Upper
 202 100
 101 14.2 11.6 17.4
 203 17.1 13.6 20.4

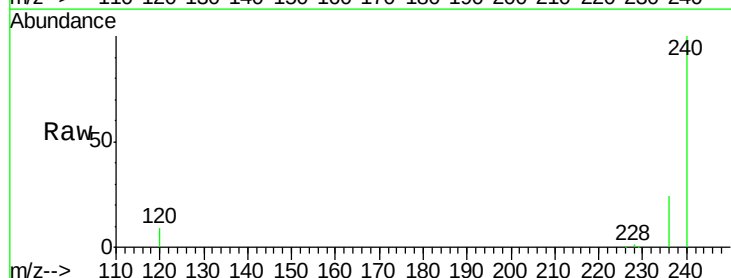


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

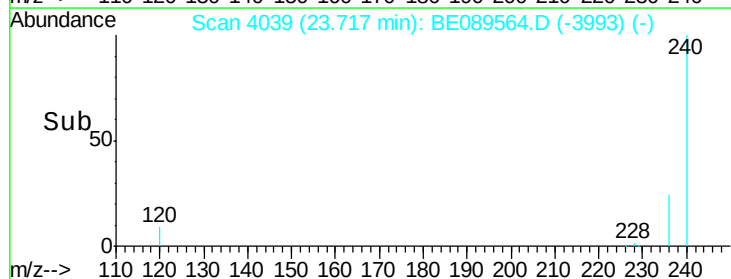
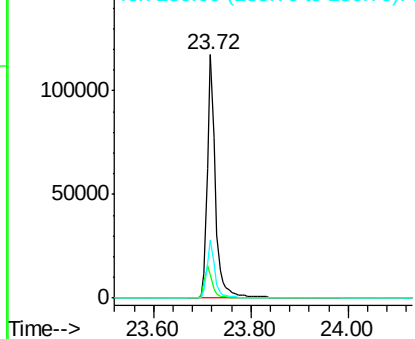


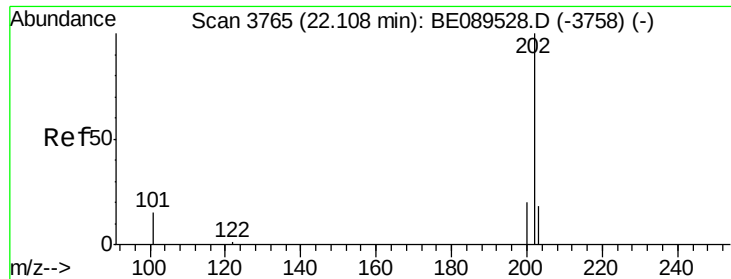
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4039
 Delta R.T. -0.01 min
 Lab File: BE089564.D
 Acq: 7 Feb 2015 18:31

Tgt Ion: 240 Resp: 133460
 Ion Ratio Lower Upper
 240 100
 120 9.5 7.2 10.8
 236 23.8 18.5 27.7



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: 0.05 ng

RT: 22.10 min Scan# 3764

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

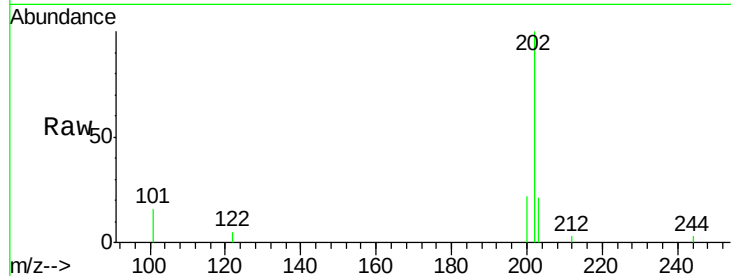
Tgt Ion:202 Resp: 1551

Ion Ratio Lower Upper

202 100

200 20.1 16.3 24.5

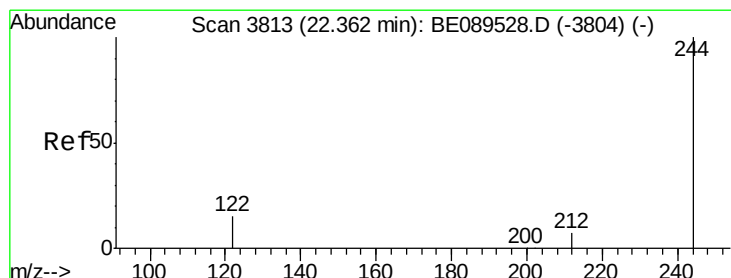
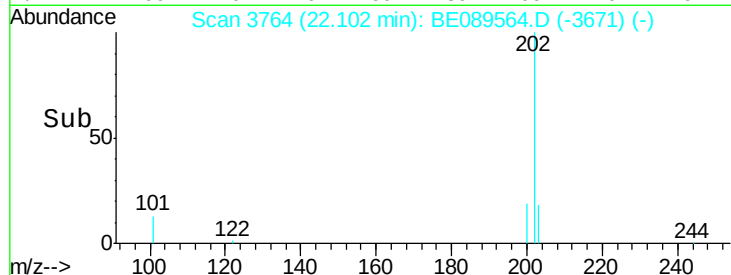
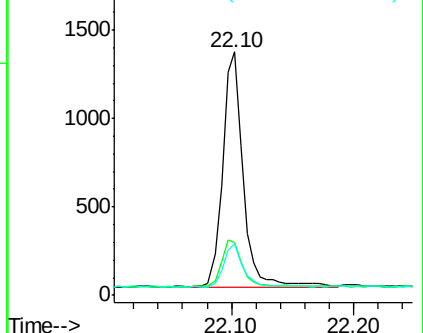
203 16.9 13.5 20.3



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: 8.35 ng

RT: 22.36 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

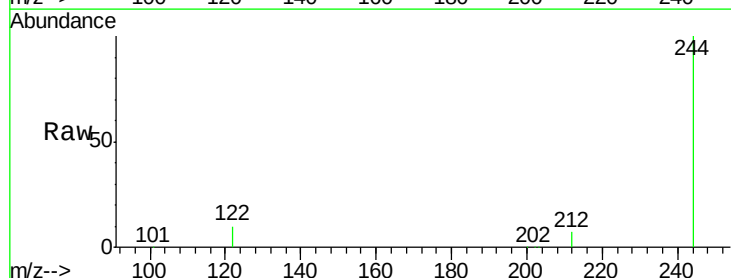
Tgt Ion:244 Resp: 147013

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

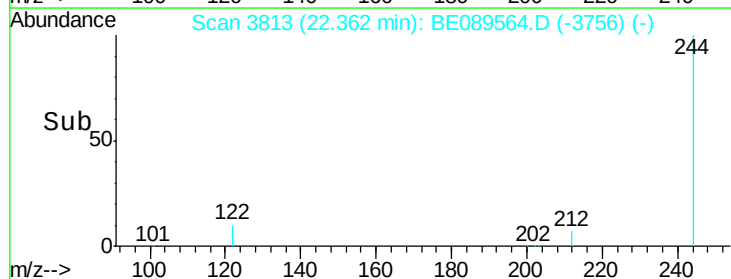
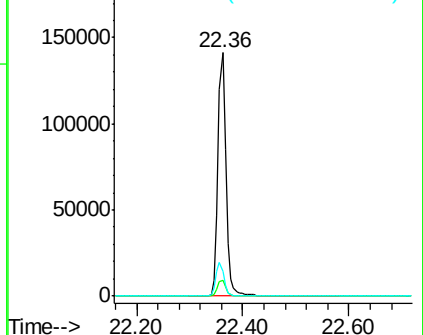
122 10.2 12.6 19.0#

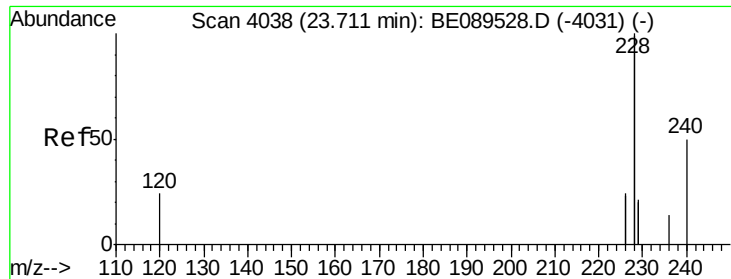


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.70 min Scan# 4037

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

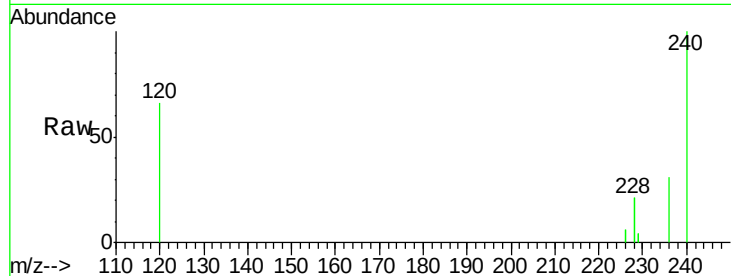
Tgt Ion:228 Resp: 7096

Ion Ratio Lower Upper

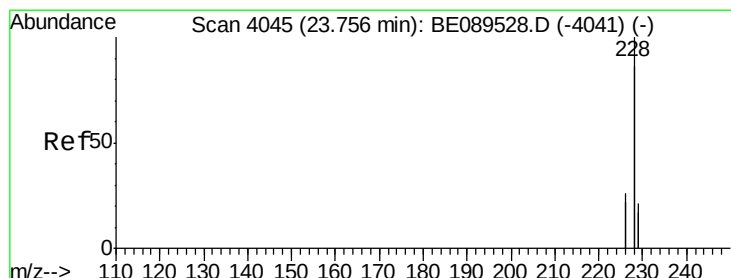
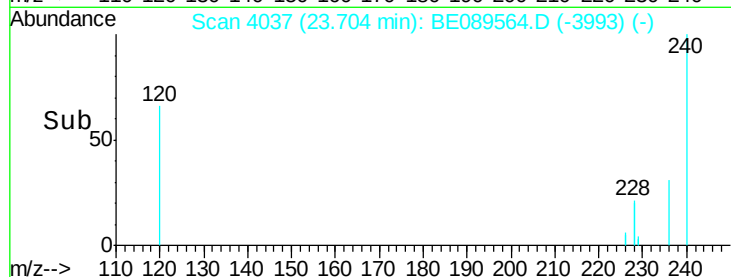
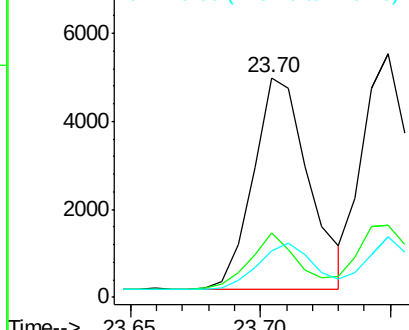
228 100

226 29.4 19.0 28.4#

229 21.1 16.8 25.2



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: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

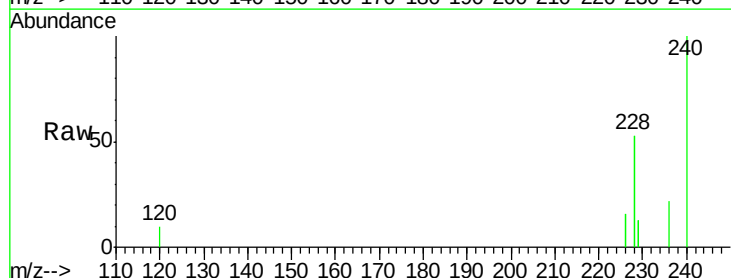
Tgt Ion:228 Resp: 8707

Ion Ratio Lower Upper

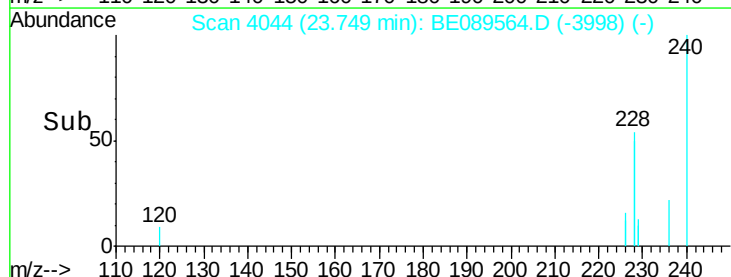
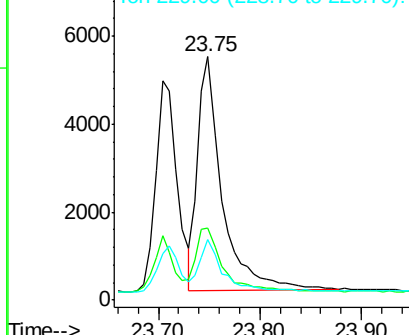
228 100

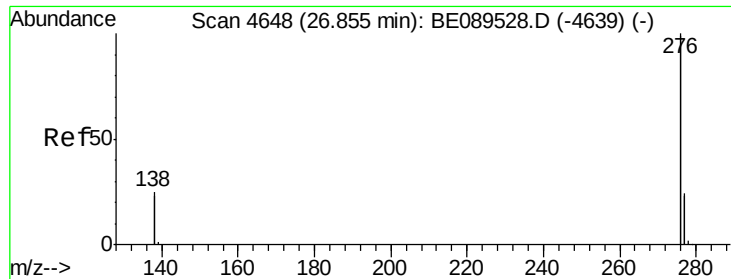
226 29.8 21.0 31.4

229 24.8 16.7 25.1



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: 26.84 min Scan# 4646

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

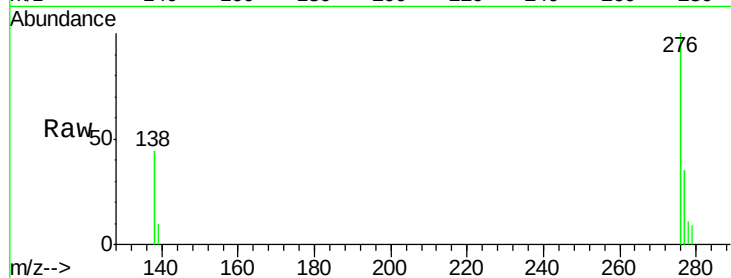
Tgt Ion:276 Resp: 4332

Ion Ratio Lower Upper

276 100

138 28.1 23.0 34.4

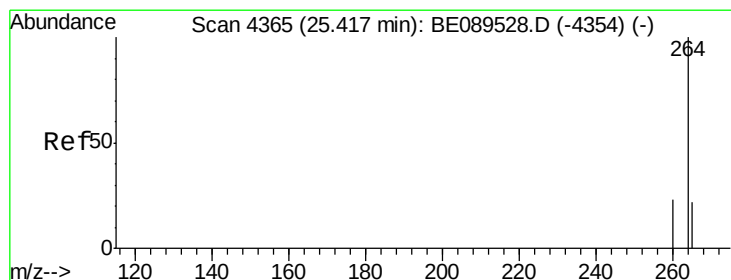
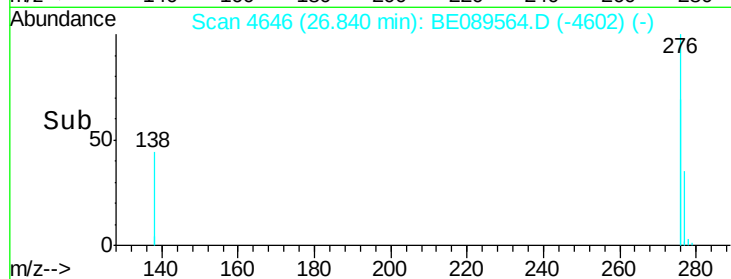
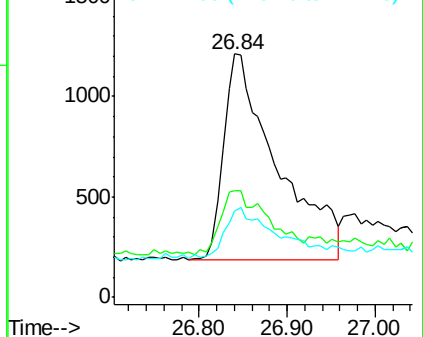
277 22.4 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4364

Delta R.T. -0.01 min

Lab File: BE089564.D

Acq: 7 Feb 2015 18:31

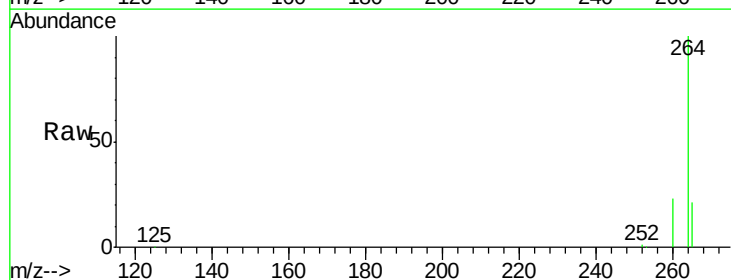
Tgt Ion:264 Resp: 157336

Ion Ratio Lower Upper

264 100

260 23.3 18.7 28.1

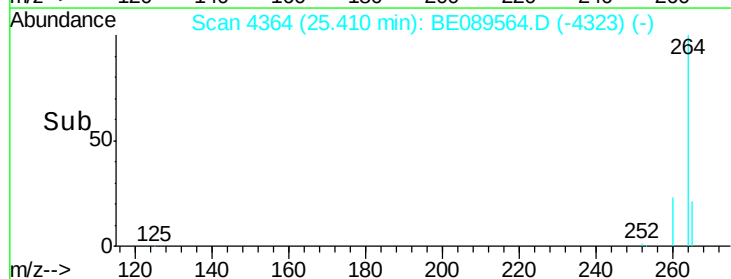
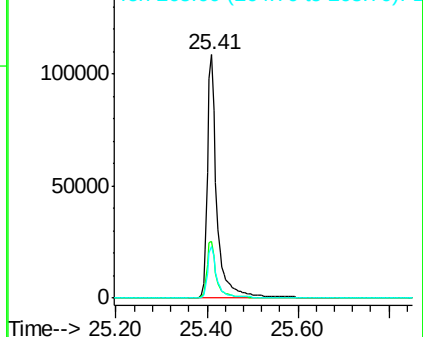
265 21.3 17.5 26.3

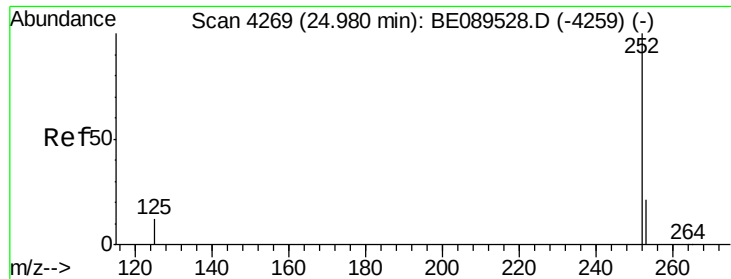


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

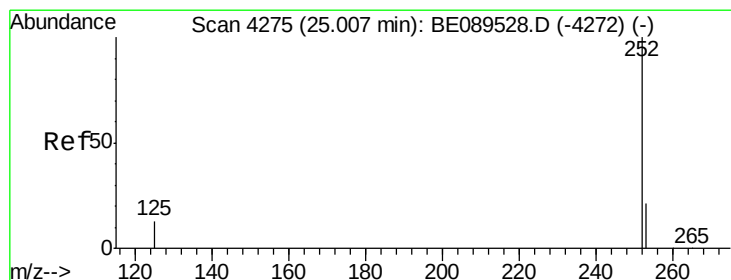
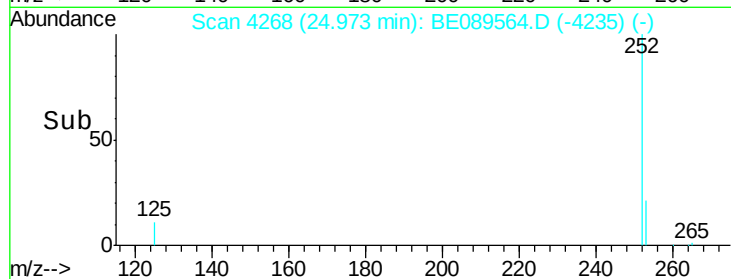
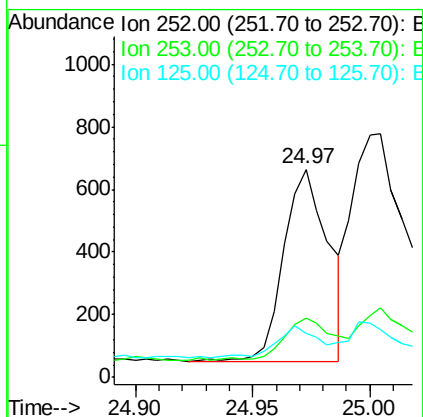
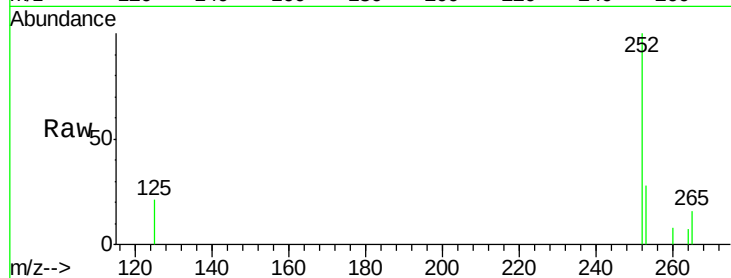




#23
Benzo(b)fluoranthene
Concen: 0.03 ng
RT: 24.97 min Scan# 4268
Delta R.T. -0.01 min
Lab File: BE089564.D
Acq: 7 Feb 2015 18:31

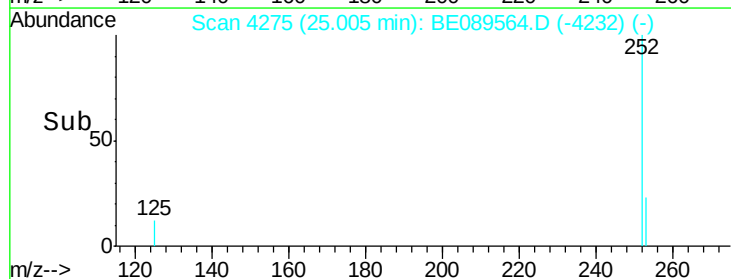
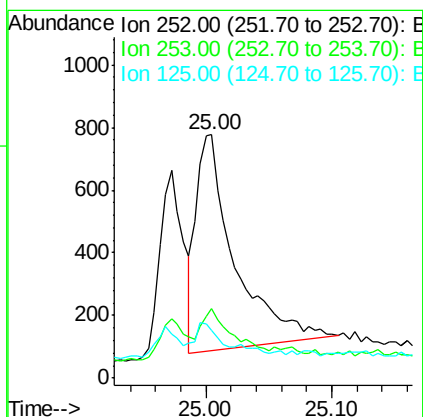
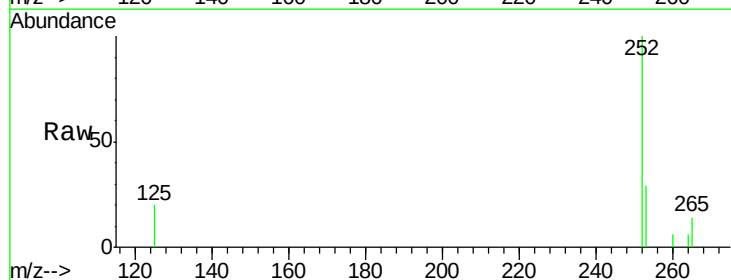
Instrument :
BNA_E
ClientSampleId :
MDL-03-W

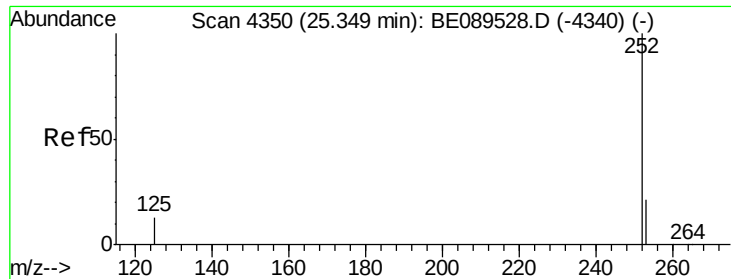
Tgt Ion: 252 Resp: 820
Ion Ratio Lower Upper
252 100
253 28.3 17.4 26.0#
125 21.2 10.4 15.6#



#24
Benzo(k)fluoranthene
Concen: 0.04 ng
RT: 25.00 min Scan# 4275
Delta R.T. -0.00 min
Lab File: BE089564.D
Acq: 7 Feb 2015 18:31

Tgt Ion: 252 Resp: 1472
Ion Ratio Lower Upper
252 100
253 28.7 17.2 25.8#
125 19.6 10.6 15.8#

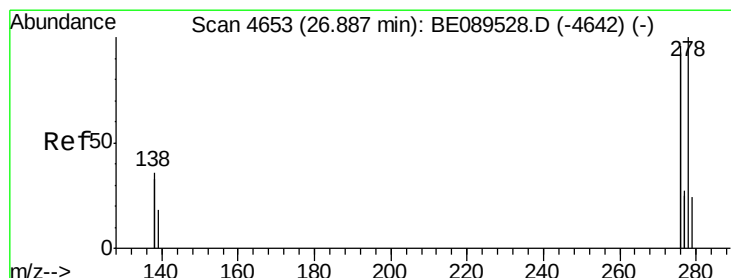
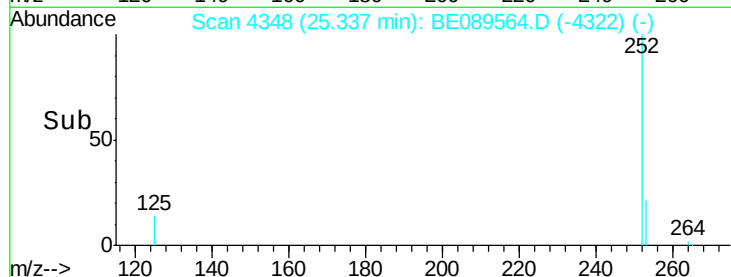
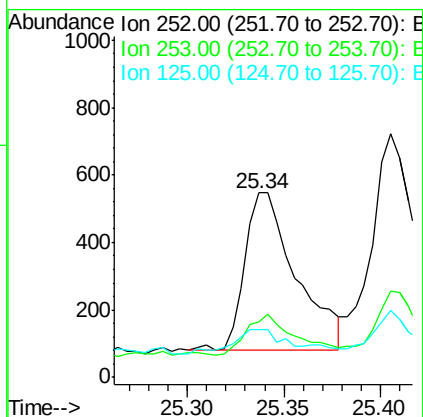
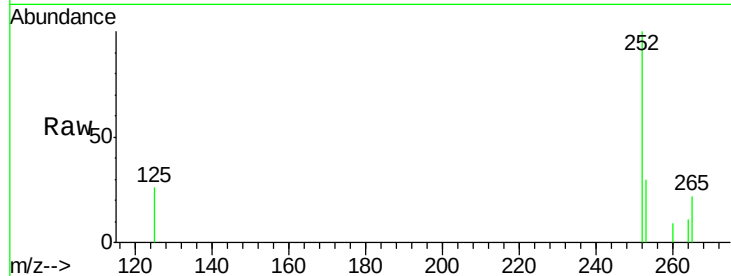




#25
Benzo(a)pyrene
Concen: 0.03 ng
RT: 25.34 min Scan# 4348
Delta R.T. -0.01 min
Lab File: BE089564.D
Acq: 7 Feb 2015 18:31

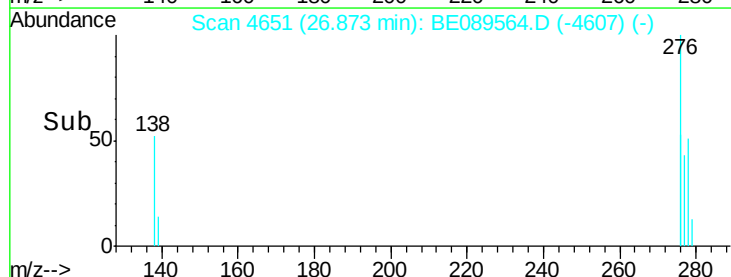
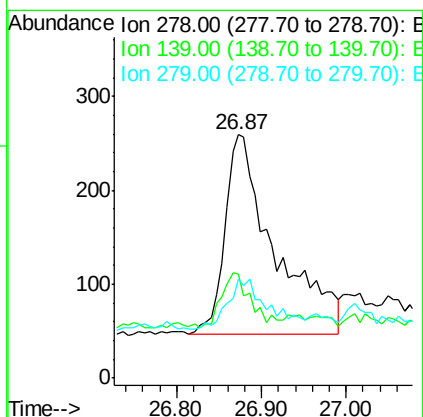
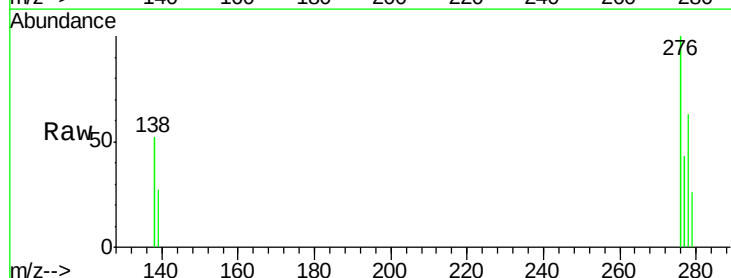
Instrument :
BNA_E
ClientSampleId :
MDL-03-W

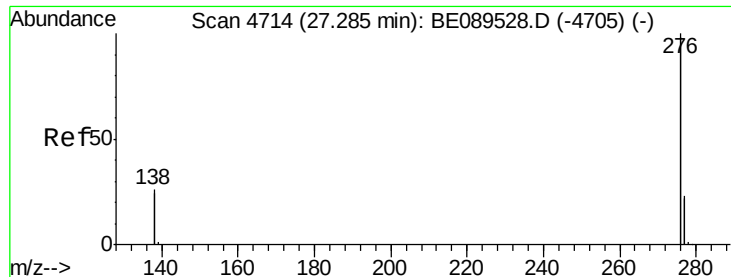
Tgt Ion: 252 Resp: 866
Ion Ratio Lower Upper
252 100
253 29.8 17.8 26.6#
125 25.6 11.4 17.2#



#26
Dibenzo(a,h)anthracene
Concen: 0.02 ng
RT: 26.87 min Scan# 4651
Delta R.T. -0.01 min
Lab File: BE089564.D
Acq: 7 Feb 2015 18:31

Tgt Ion: 278 Resp: 865
Ion Ratio Lower Upper
278 100
139 42.9 15.7 23.5#
279 40.5 19.5 29.3#





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.01 min

Lab File: BE089564.D

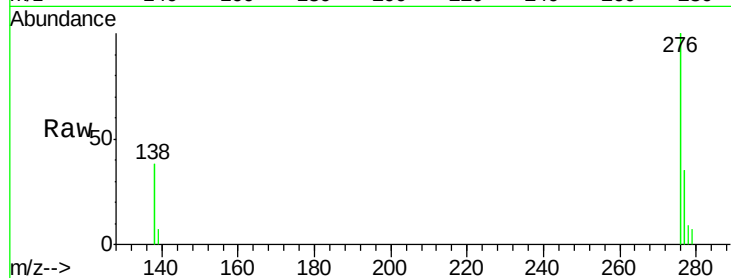
Acq: 7 Feb 2015 18:31

Instrument :

BNA_E

ClientSampleId :

MDL-03-W



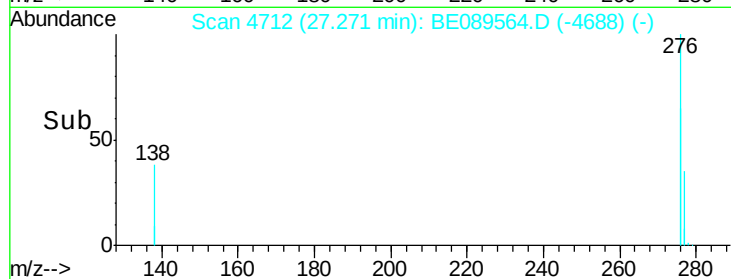
Tgt Ion: 276 Resp: 5898

Ion Ratio Lower Upper

276 100

277 35.0 18.6 27.8#

138 38.1 20.9 31.3#



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

