

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089562.D
 Acq On : 7 Feb 2015 16:32
 Operator : TP/IZ
 Sample : MDL-07-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

Quant Time: Feb 09 00:19:04 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

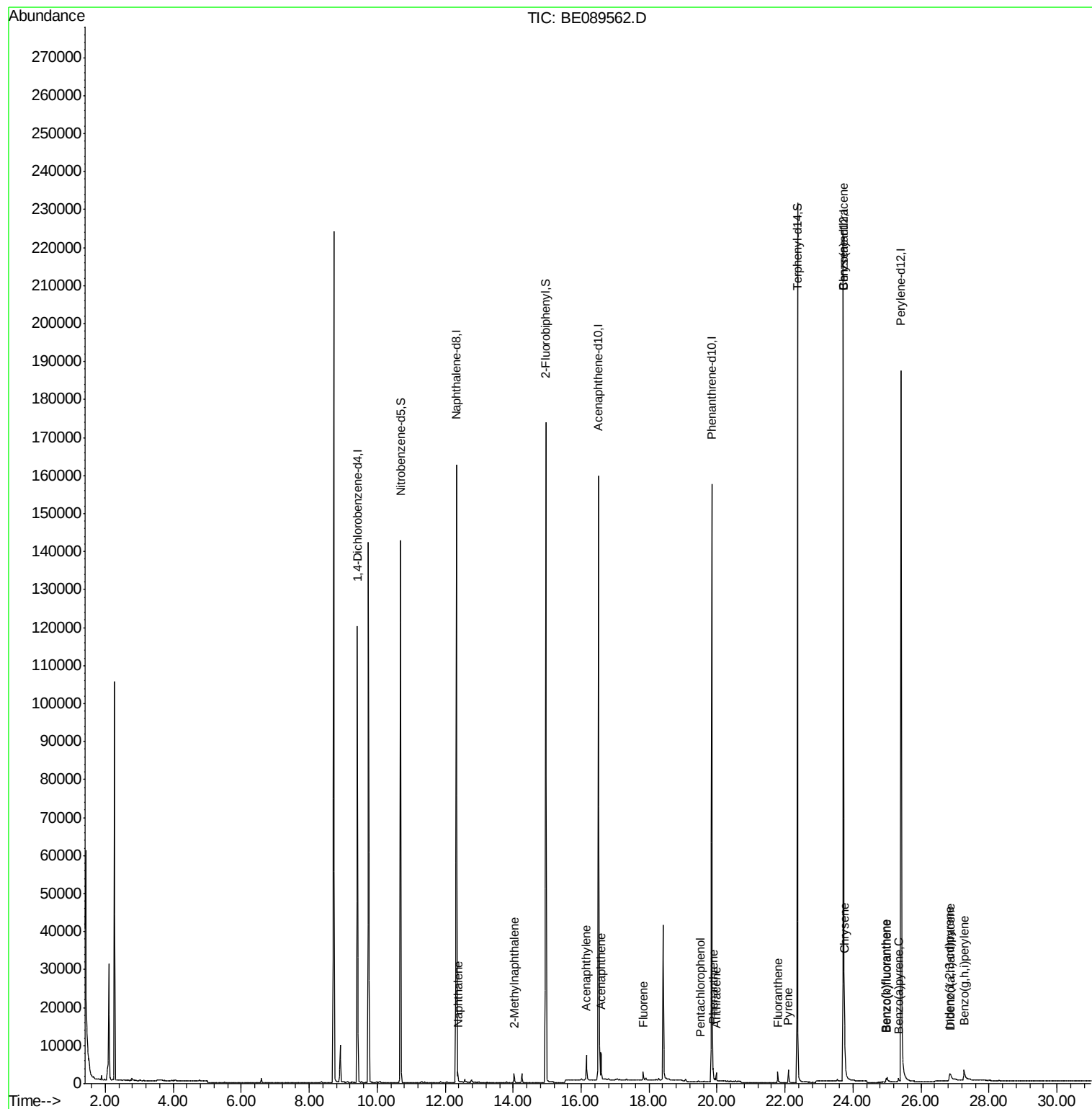
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	50499	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	196704	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	94132	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	160803	5.00	ng	0.00
16) Chrysene-d12	23.72	240	181199	5.00	ng	0.00
22) Perylene-d12	25.41	264	185924	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	103675	7.94	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	164350	6.54	ng	0.00
18) Terphenyl-d14	22.36	244	191044	7.99	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.38	128	3220	0.07	ng	97
5) 2-Methylnaphthalene	14.03	142	1689	0.07	ng	97
8) Acenaphthylene	16.16	152	8461	0.05	ng	98
9) Acenaphthene	16.59	154	1552	0.06	ng	94
10) Fluorene	17.83	166	1627	0.06	ng	98
12) Pentachlorophenol	19.51	266	5	0.53	ng	# 74
13) Phenanthrene	19.89	178	2852	0.07	ng	100
14) Anthracene	19.98	178	2134	0.06	ng	99
15) Fluoranthene	21.78	202	2206	0.06	ng	98
17) Pyrene	22.10	202	2420	0.06	ng	98
19) Benzo(a)anthracene	23.71	228	10033	0.06	ng	96
20) Chrysene	23.75	228	12786	0.08	ng	96
21) Indeno(1,2,3-cd)pyrene	26.84	276	5175	0.02	ng	98
23) Benzo(b)fluoranthene	24.97	252	1082	0.03	ng	# 87
24) Benzo(k)fluoranthene	25.00	252	1964	0.04	ng	# 90
25) Benzo(a)pyrene	25.34	252	1191	0.03	ng	# 83
26) Dibenzo(a,h)anthracene	26.87	278	961	0.02	ng	# 68
27) Benzo(g,h,i)perylene	27.27	276	7185	0.04	ng	# 87

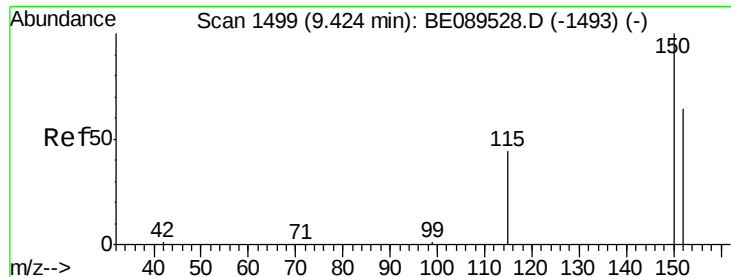
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

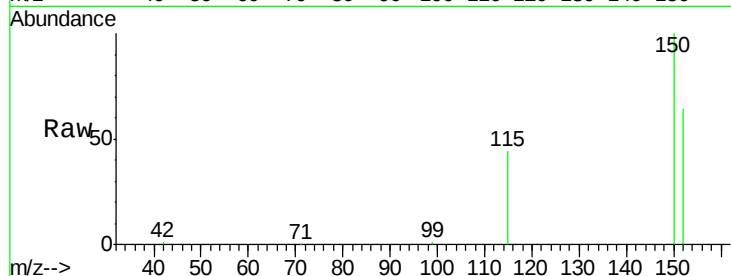
Tgt Ion:152 Resp: 50499

Ion Ratio Lower Upper

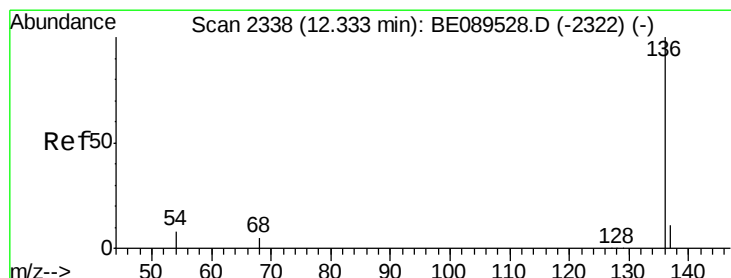
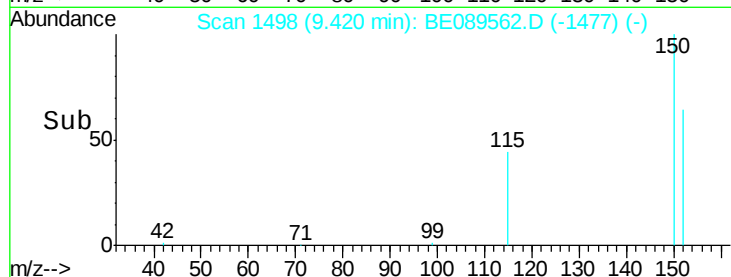
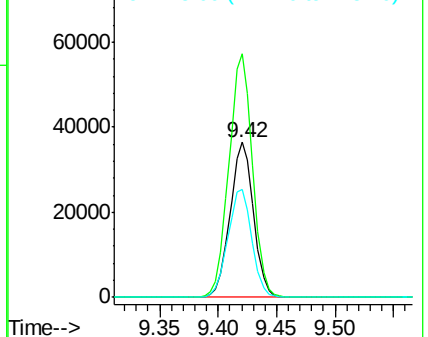
152 100

150 156.9 125.7 188.5

115 69.6 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. -0.00 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

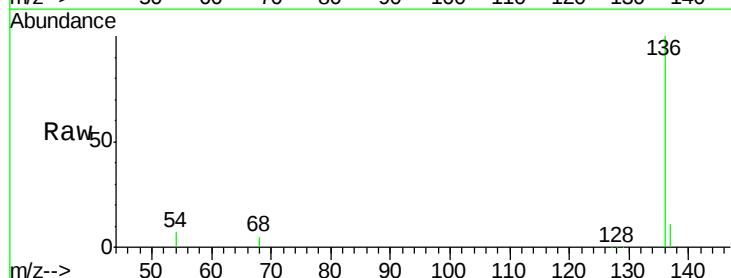
Tgt Ion:136 Resp: 196704

Ion Ratio Lower Upper

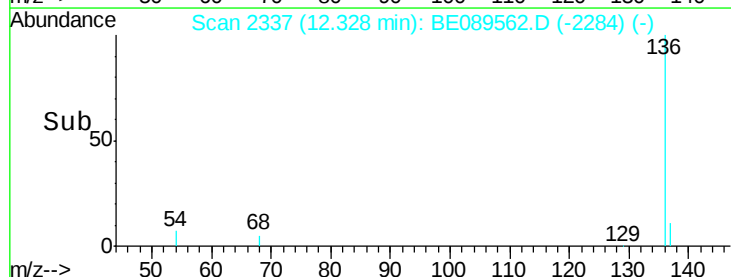
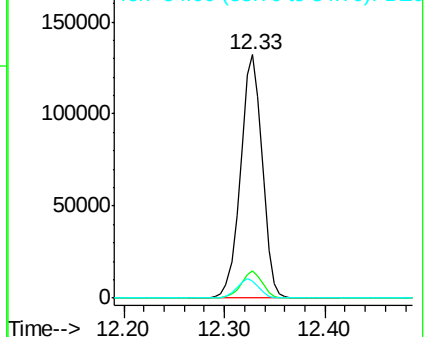
136 100

137 11.0 8.7 13.1

54 7.2 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: 7.94 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

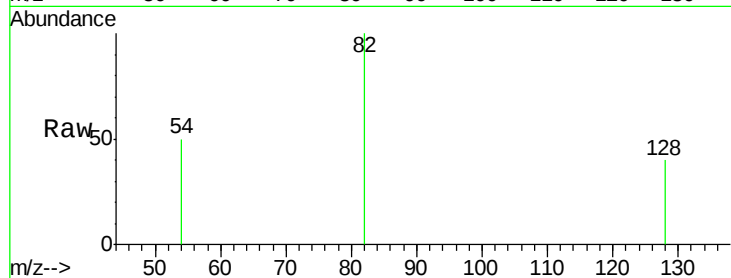
Tgt Ion: 82 Resp: 103675

Ion Ratio Lower Upper

82 100

128 39.8 30.2 45.4

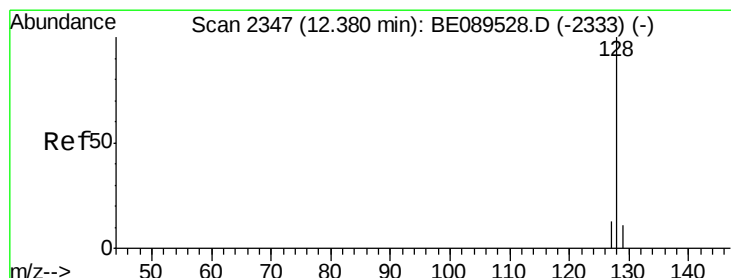
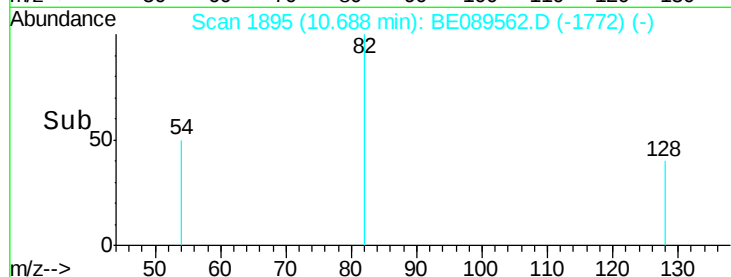
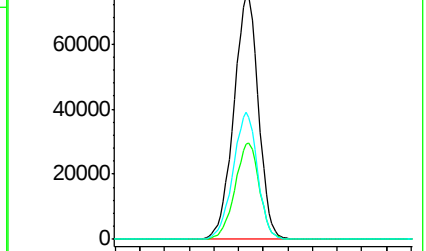
54 50.3 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE089562.D (-1772) (-)

Ion 128.00 (127.70 to 128.70): BE089562.D (-1772) (-)

Ion 54.00 (53.70 to 54.70): BE089562.D (-1772) (-)



#4

Naphthalene

Concen: 0.07 ng

RT: 12.38 min Scan# 2346

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

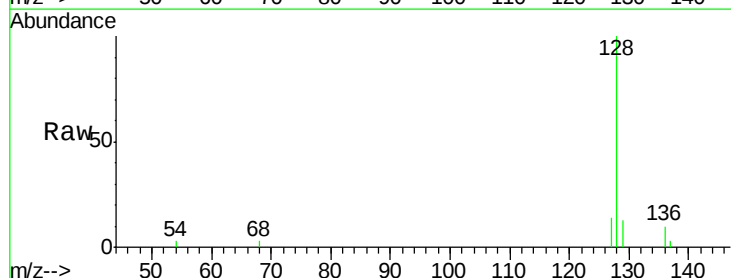
Tgt Ion: 128 Resp: 3220

Ion Ratio Lower Upper

128 100

129 12.9 9.1 13.7

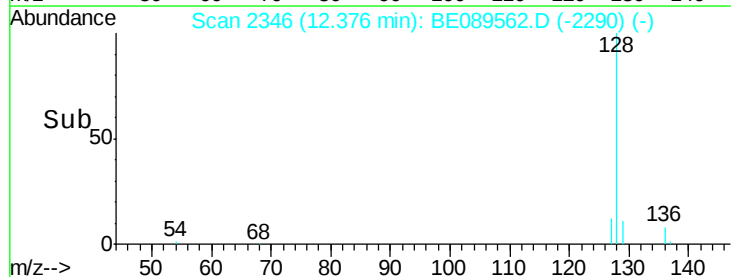
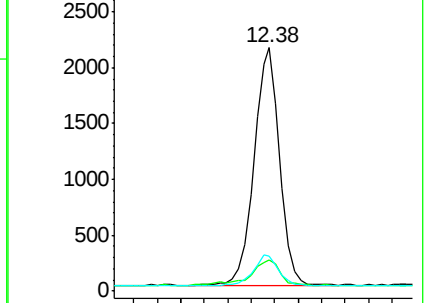
127 14.1 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE089562.D (-2290) (-)

Ion 129.00 (128.70 to 129.70): BE089562.D (-2290) (-)

Ion 127.00 (126.70 to 127.70): BE089562.D (-2290) (-)





#5

2-Methylnaphthalene

Concen: 0.07 ng

RT: 14.03 min Scan# 2677

Delta R.T. -0.01 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

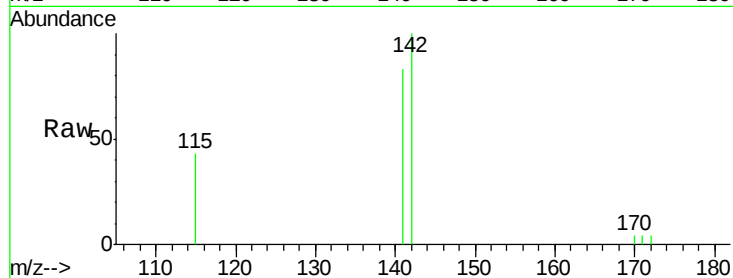
Tgt Ion:142 Resp: 1689

Ion Ratio Lower Upper

142 100

141 82.9 67.0 100.6

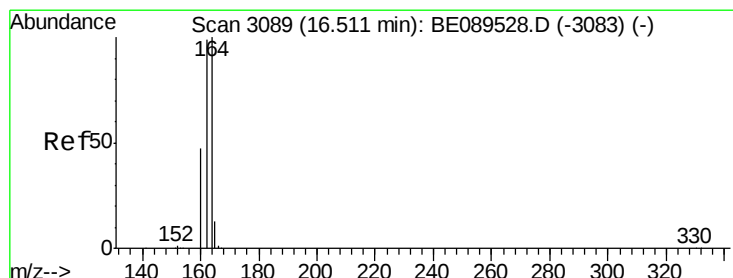
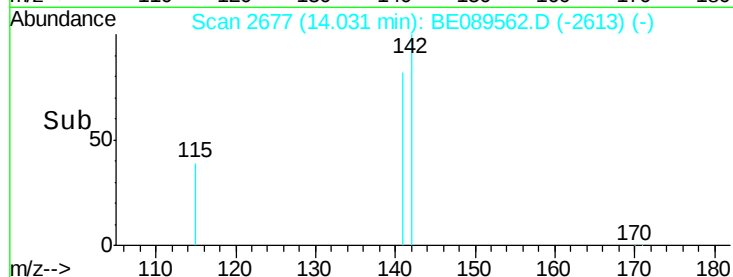
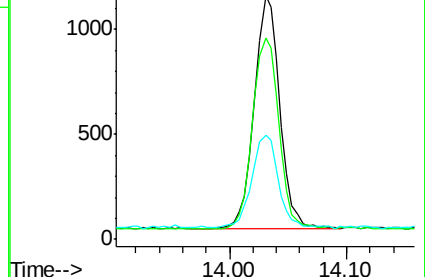
115 42.9 30.6 45.8



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: BE089562.D

Acq: 7 Feb 2015 16:32

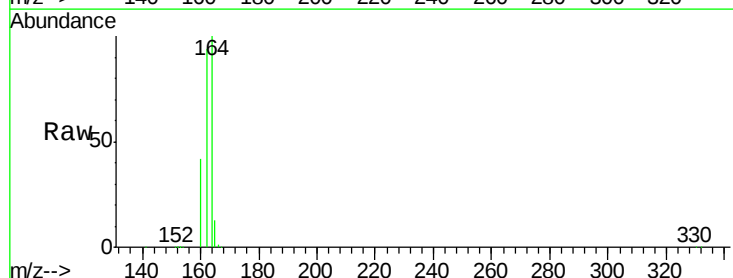
Tgt Ion:164 Resp: 94132

Ion Ratio Lower Upper

164 100

162 93.6 79.5 119.3

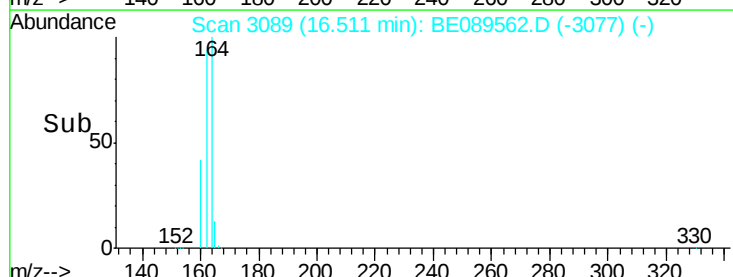
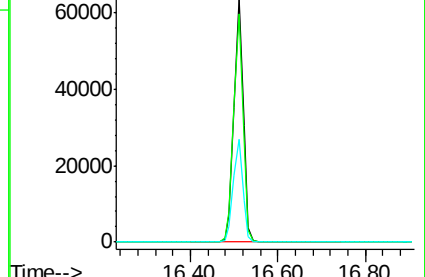
160 42.3 37.6 56.4



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: 6.54 ng

RT: 14.96 min Scan# 2882

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

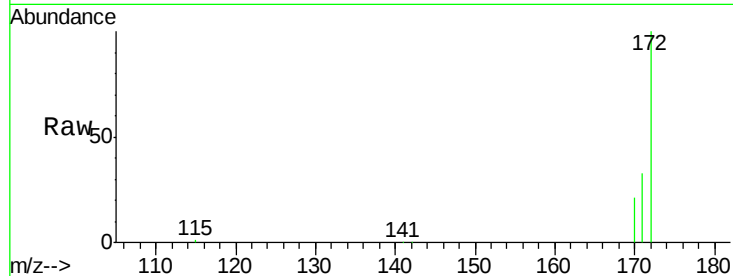
Tgt Ion:172 Resp: 164350

Ion Ratio Lower Upper

172 100

171 32.9 27.7 41.5

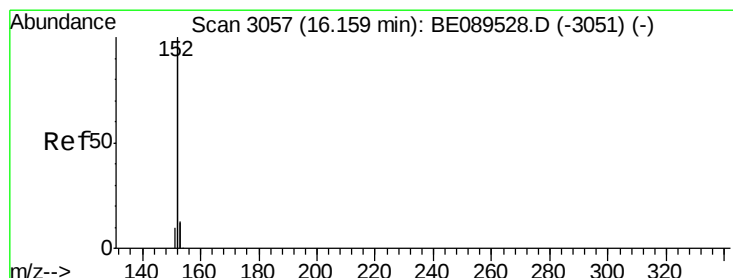
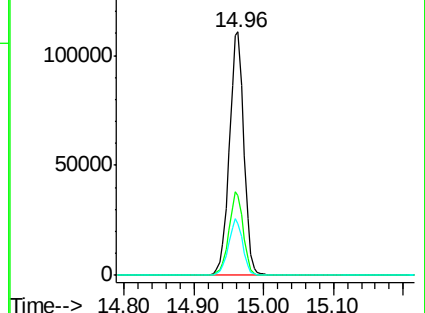
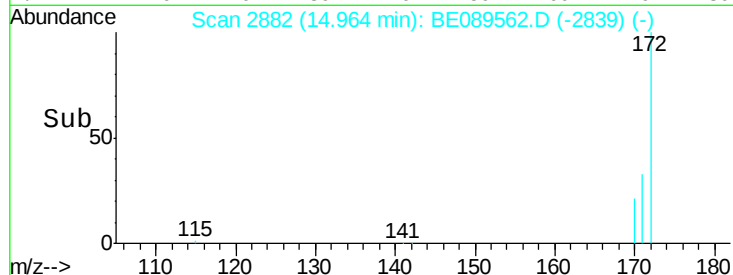
170 21.3 18.3 27.5



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: BE089562.D

Acq: 7 Feb 2015 16:32

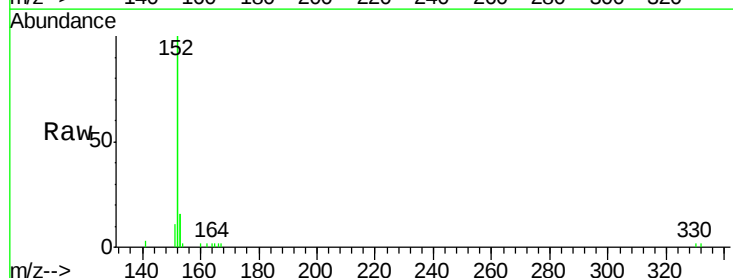
Tgt Ion:152 Resp: 8461

Ion Ratio Lower Upper

152 100

151 5.2 4.0 6.0

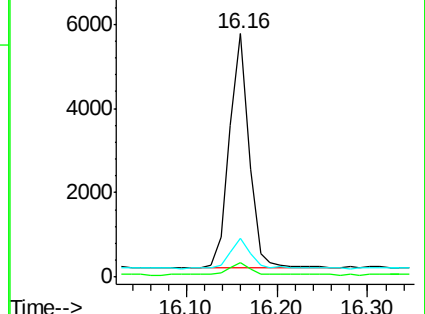
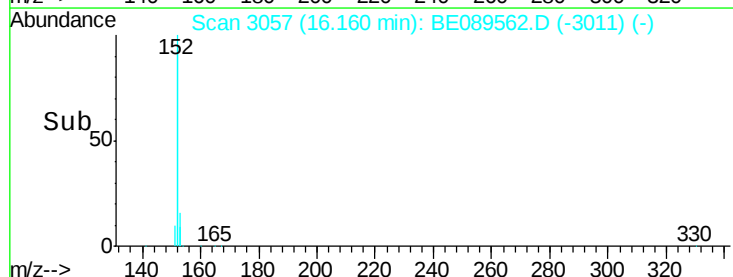
153 14.3 10.6 15.8

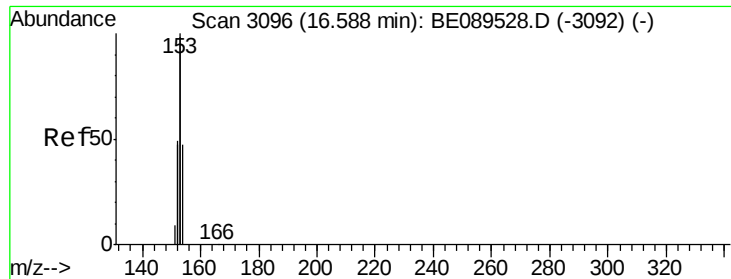


Abundance Ion 152.00 (151.70 to 152.70): E

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: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

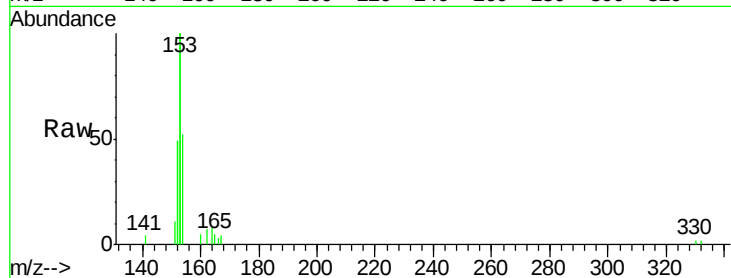
Tgt Ion:154 Resp: 1552

Ion Ratio Lower Upper

154 100

153 434.8 340.8 511.2

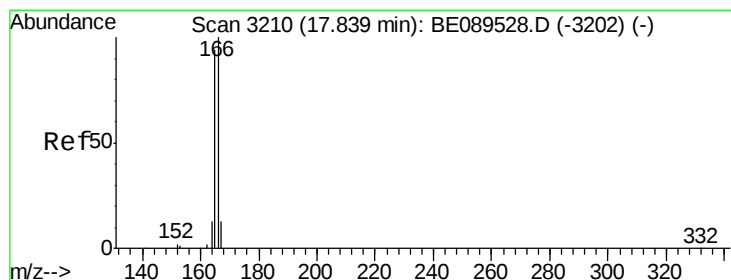
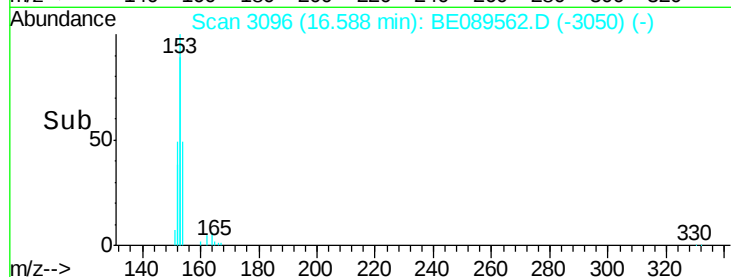
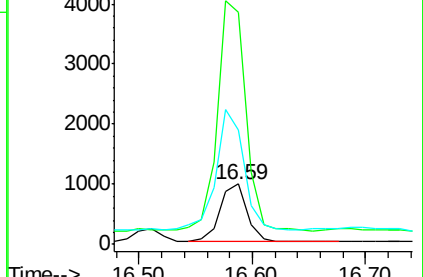
152 224.0 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.06 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

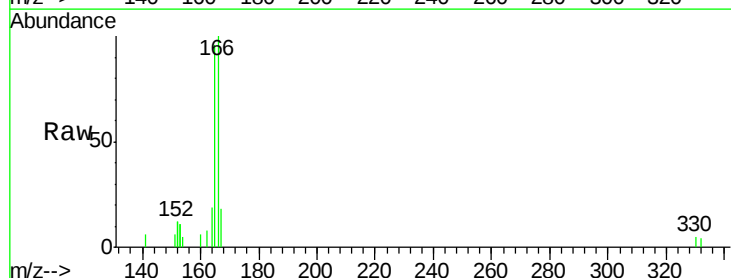
Tgt Ion:166 Resp: 1627

Ion Ratio Lower Upper

166 100

165 92.0 75.5 113.3

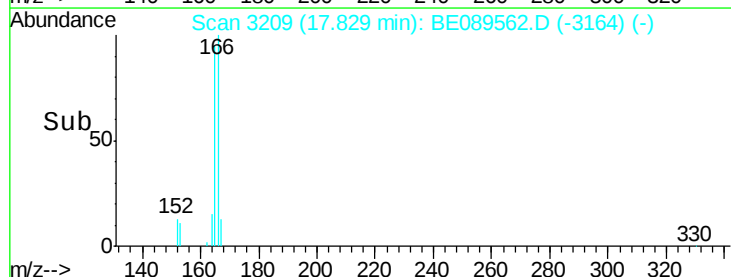
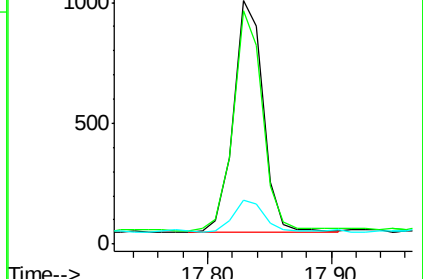
167 14.1 10.9 16.3

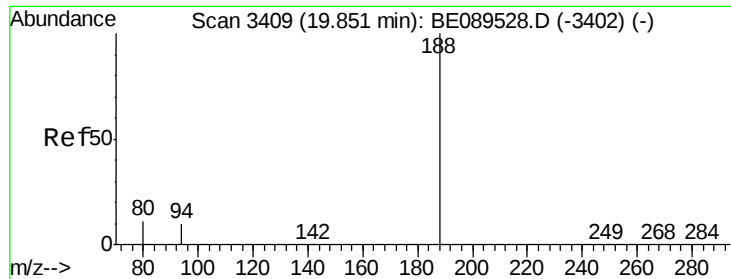


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

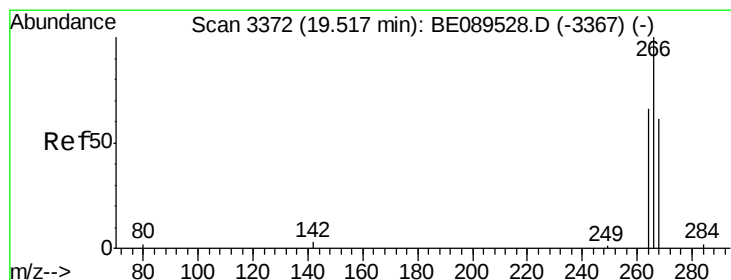
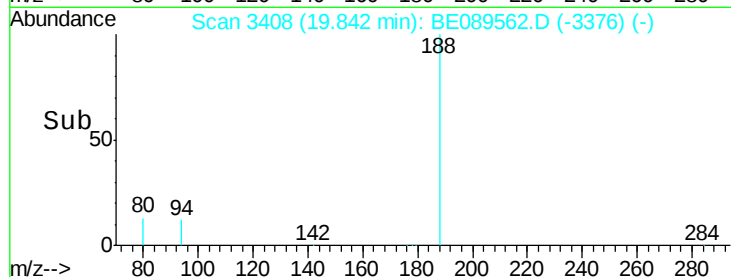
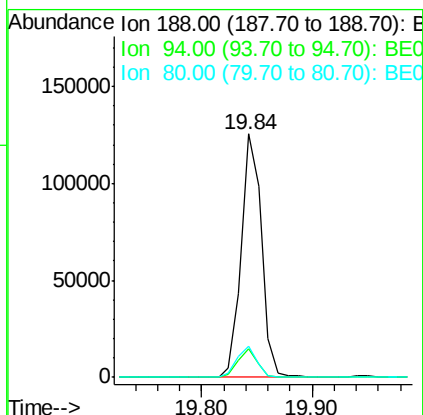
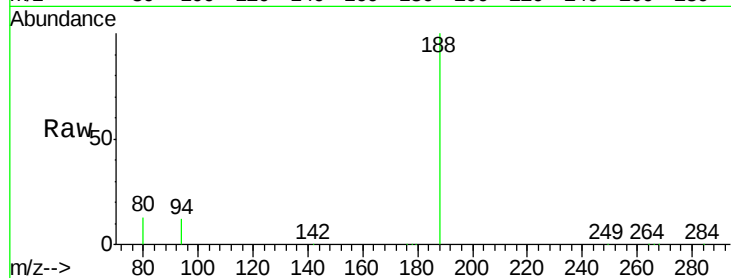




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.01 min
Lab File: BE089562.D
Acq: 7 Feb 2015 16:32

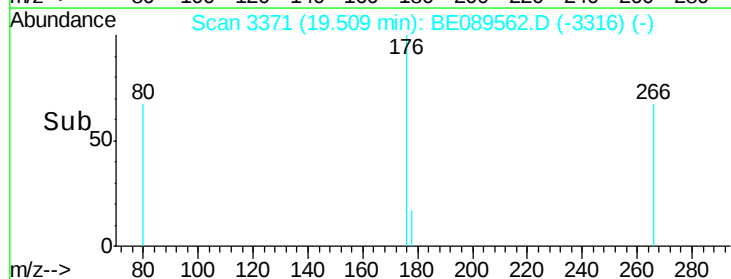
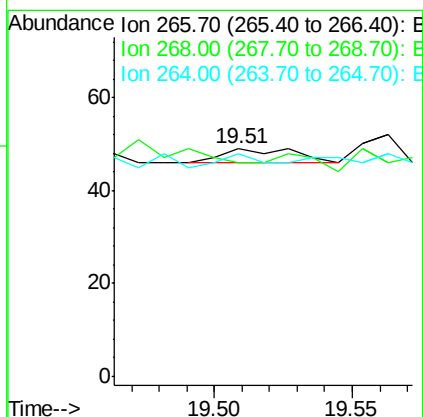
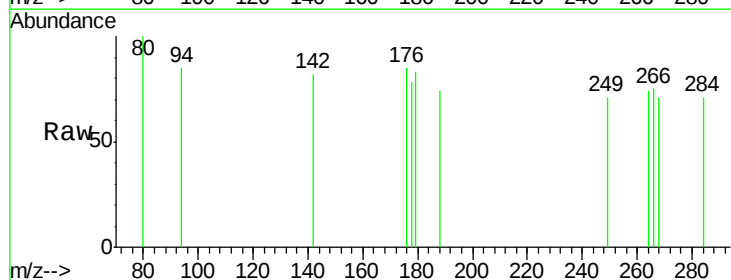
Instrument :
BNA_E
ClientSampleId :
MDL-01-W

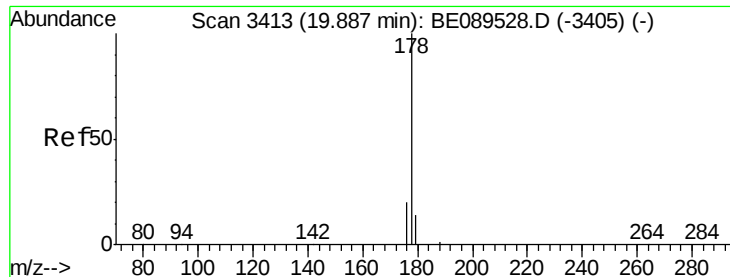
Tgt Ion:188 Resp: 160803
Ion Ratio Lower Upper
188 100
94 11.9 8.4 12.6
80 13.0 8.6 12.8#



#12
Pentachlorophenol
Concen: 0.53 ng
RT: 19.51 min Scan# 3371
Delta R.T. -0.01 min
Lab File: BE089562.D
Acq: 7 Feb 2015 16:32

Tgt Ion:266 Resp: 5
Ion Ratio Lower Upper
266 100
268 93.9 57.9 86.9#
264 98.0 60.2 90.4#

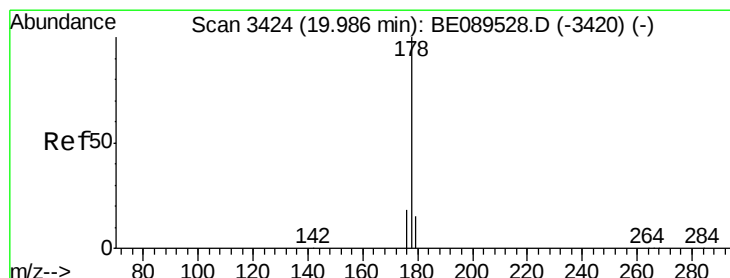
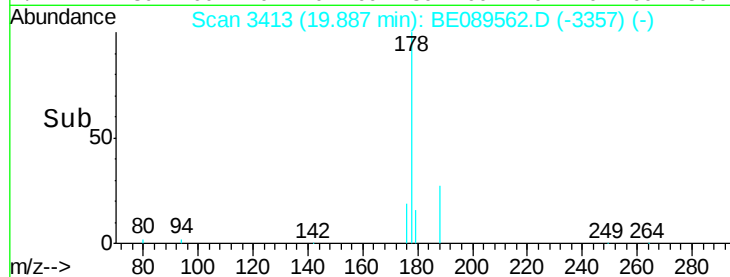
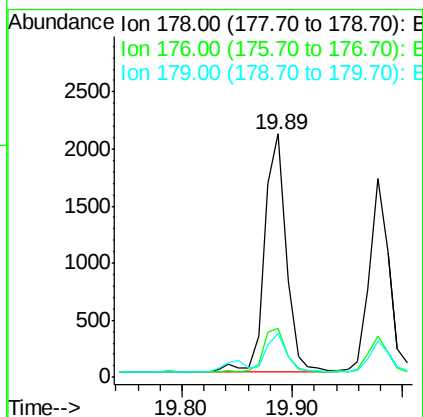
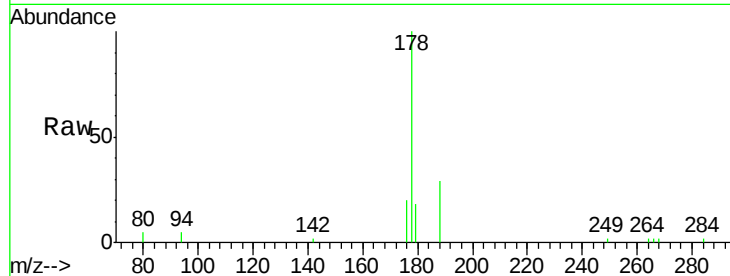




#13
Phenanthrene
Concen: 0.07 ng
RT: 19.89 min Scan# 3413
Delta R.T. 0.00 min
Lab File: BE089562.D
Acq: 7 Feb 2015 16:32

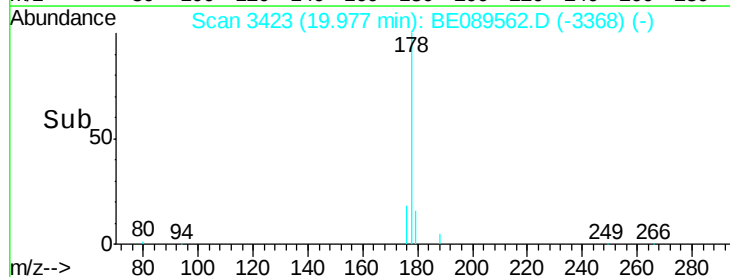
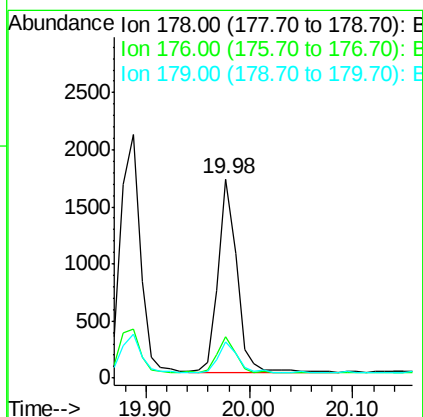
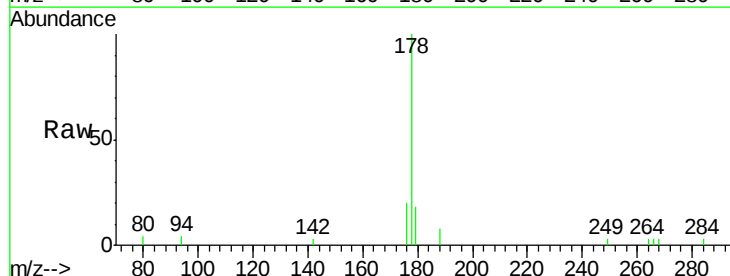
Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tgt Ion:178 Resp: 2852
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.1 12.2 18.2



#14
Anthracene
Concen: 0.06 ng
RT: 19.98 min Scan# 3423
Delta R.T. -0.01 min
Lab File: BE089562.D
Acq: 7 Feb 2015 16:32

Tgt Ion:178 Resp: 2134
Ion Ratio Lower Upper
178 100
176 18.6 14.5 21.7
179 15.7 12.2 18.2

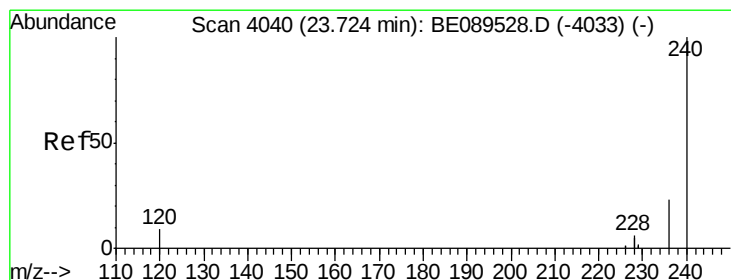
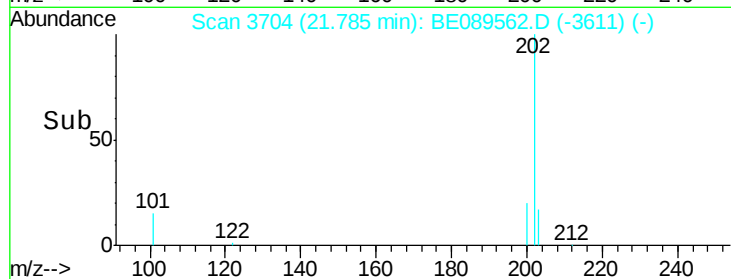
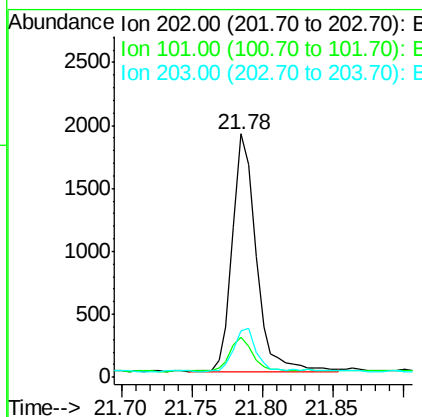
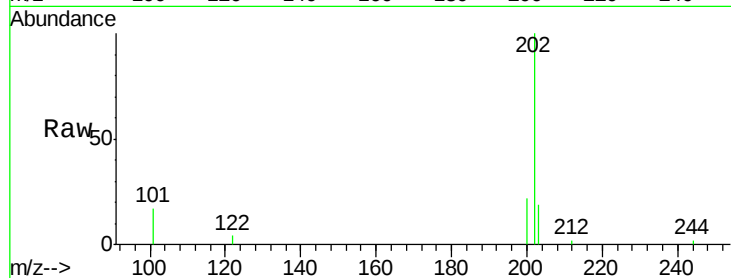




#15
Fluoranthene
Concen: 0.06 ng
RT: 21.78 min Scan# 3704
Delta R.T. -0.01 min
Lab File: BE089562.D
Acq: 7 Feb 2015 16:32

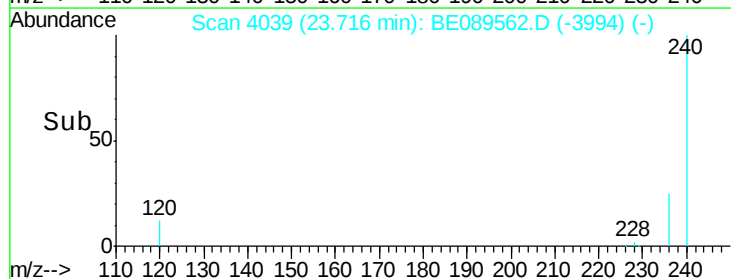
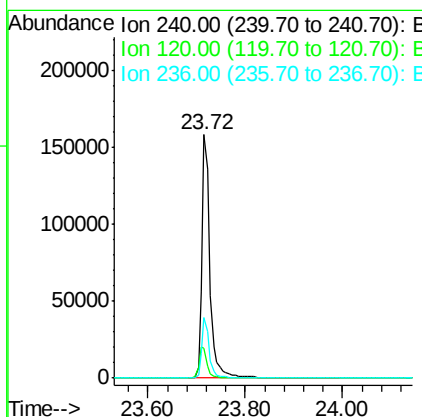
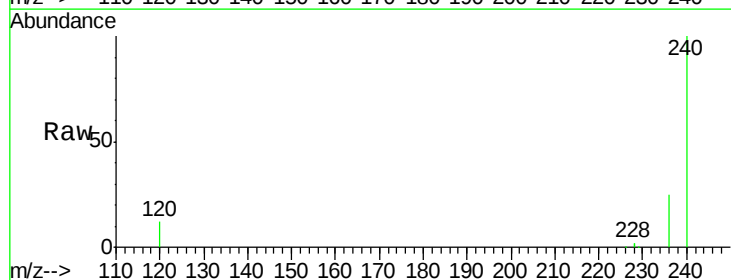
Instrument :
BNA_E
ClientSampleId :
MDL-01-W

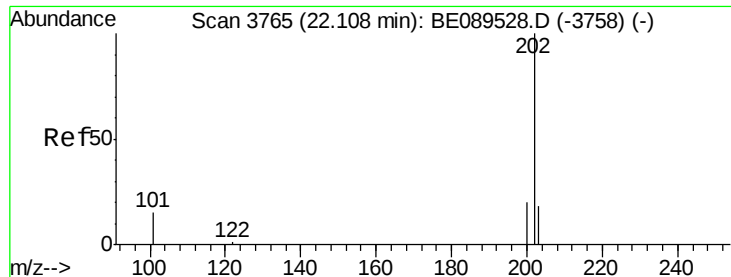
Tgt Ion: 202 Resp: 2206
Ion Ratio Lower Upper
202 100
101 13.4 11.6 17.4
203 16.7 13.6 20.4



#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.72 min Scan# 4039
Delta R.T. -0.01 min
Lab File: BE089562.D
Acq: 7 Feb 2015 16:32

Tgt Ion: 240 Resp: 181199
Ion Ratio Lower Upper
240 100
120 12.4 7.2 10.8#
236 24.6 18.5 27.7





#17

Pyrene

Concen: 0.06 ng

RT: 22.10 min Scan# 3764

Delta R.T. -0.01 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

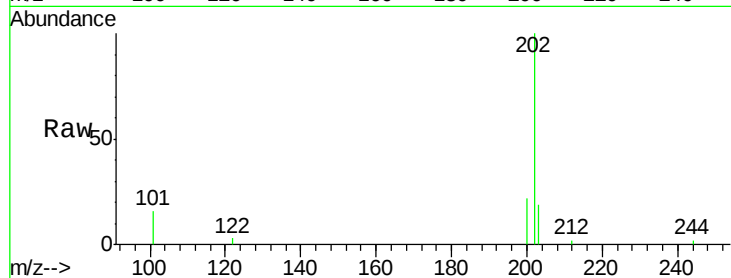
Tgt Ion:202 Resp: 2420

Ion Ratio Lower Upper

202 100

200 19.8 16.3 24.5

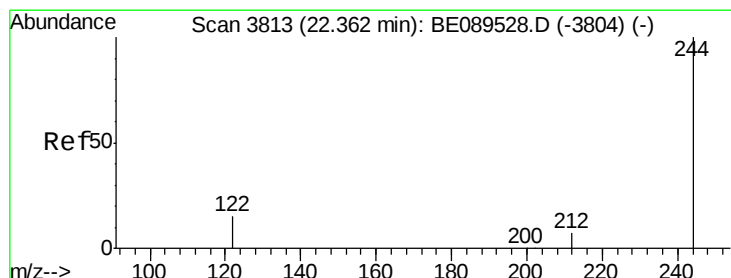
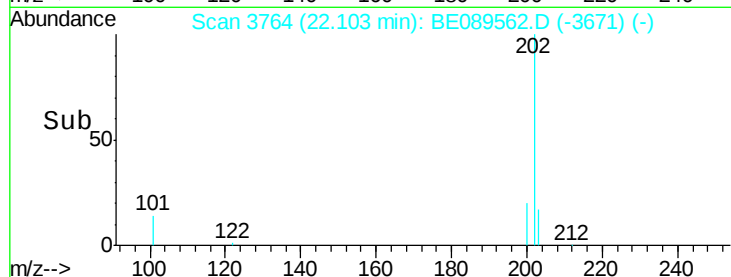
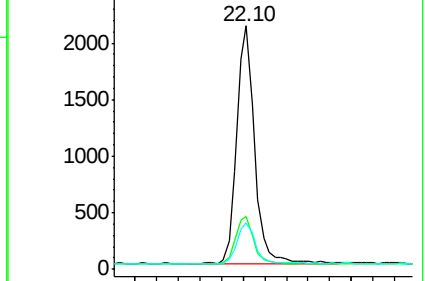
203 18.3 13.5 20.3



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: 7.99 ng

RT: 22.36 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

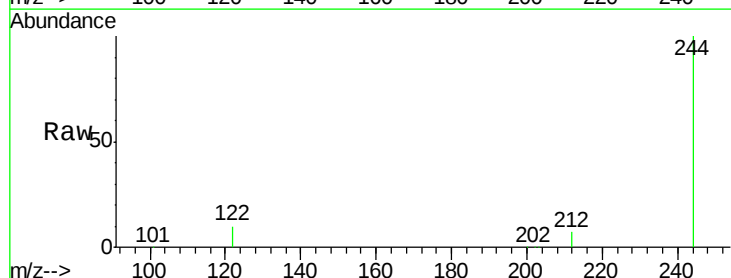
Tgt Ion:244 Resp: 191044

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

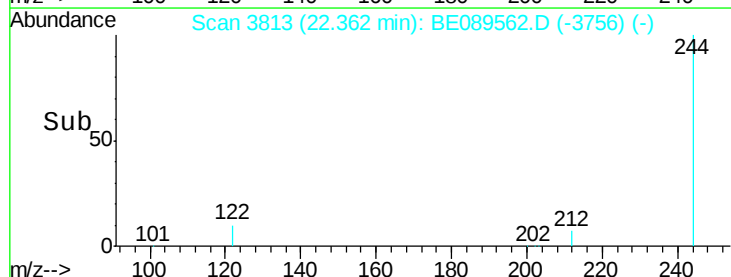
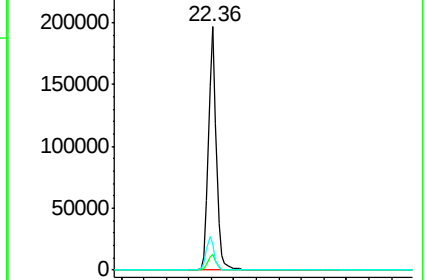
122 10.5 12.6 19.0#



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: 23.71 min Scan# 4038

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

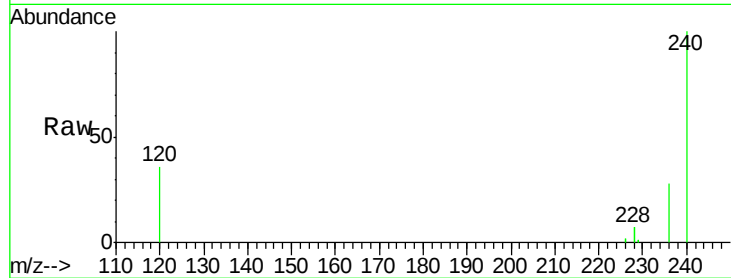
Tgt Ion:228 Resp: 10033

Ion Ratio Lower Upper

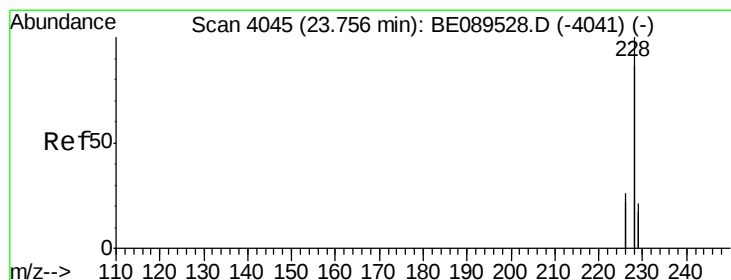
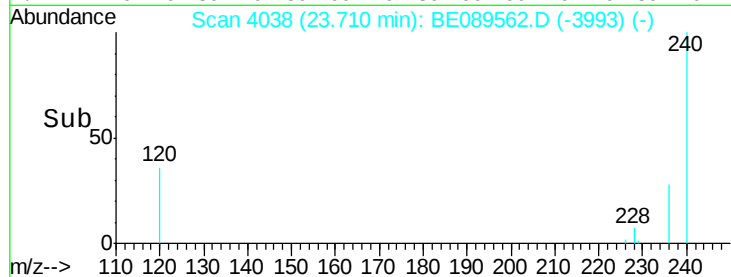
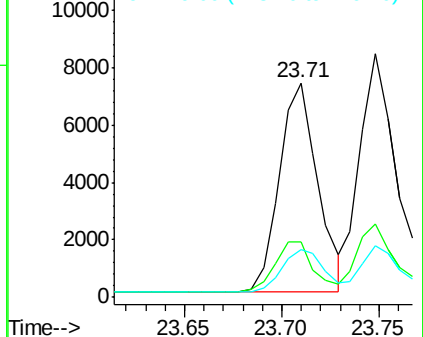
228 100

226 26.0 19.0 28.4

229 22.3 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: 0.08 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

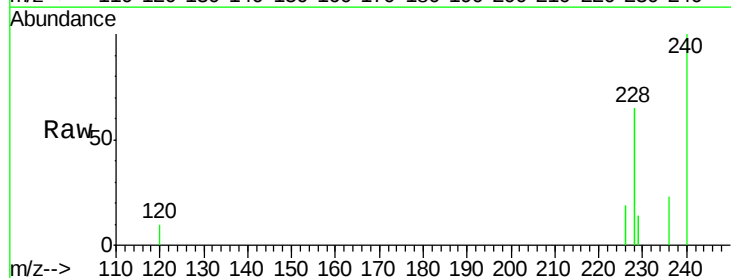
Tgt Ion:228 Resp: 12786

Ion Ratio Lower Upper

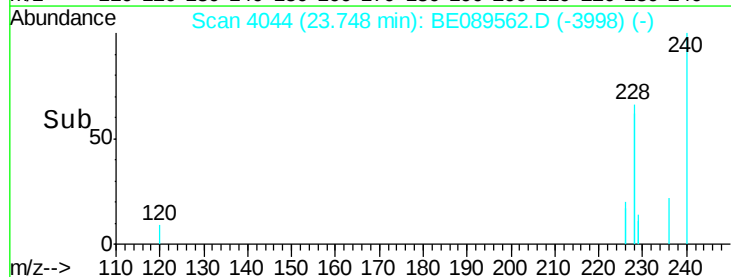
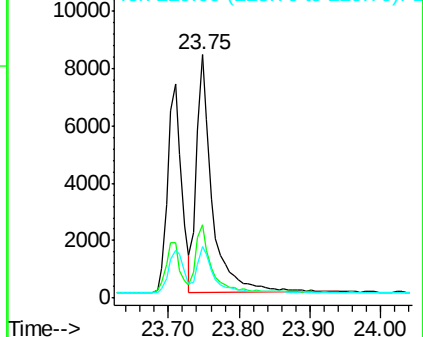
228 100

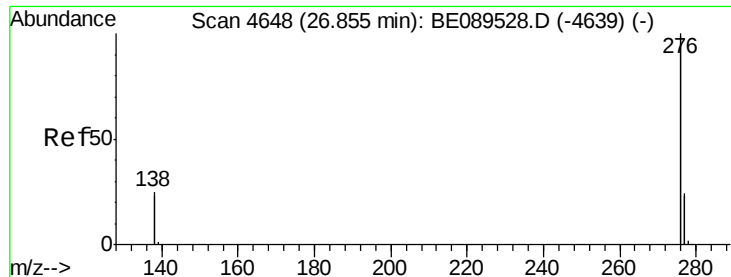
226 30.0 21.0 31.4

229 21.1 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: 0.02 ng

RT: 26.84 min Scan# 4646

Delta R.T. -0.01 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

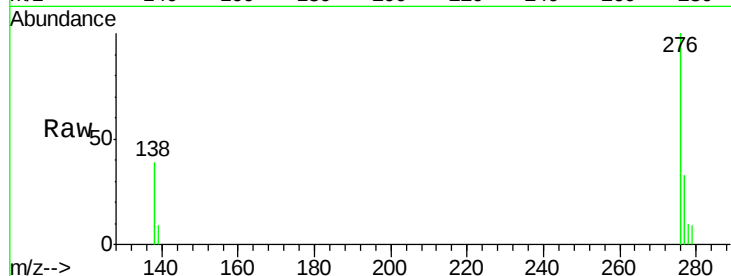
Tgt Ion:276 Resp: 5175

Ion Ratio Lower Upper

276 100

138 29.1 23.0 34.4

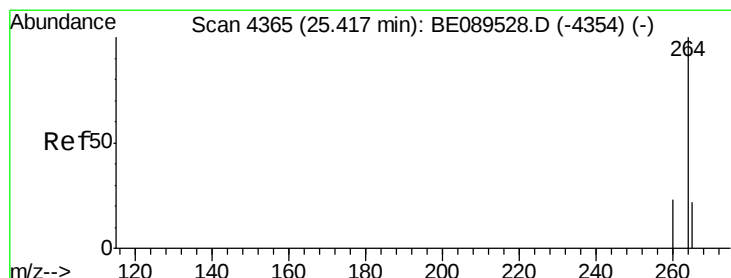
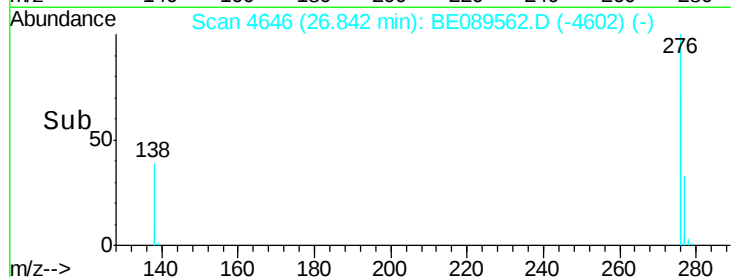
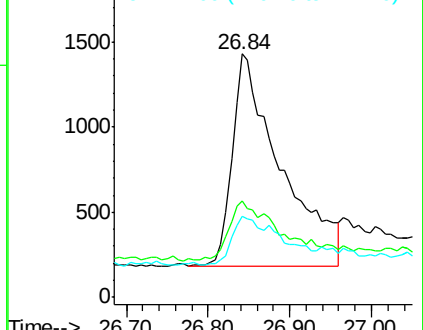
277 22.8 19.9 29.9



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: BE089562.D

Acq: 7 Feb 2015 16:32

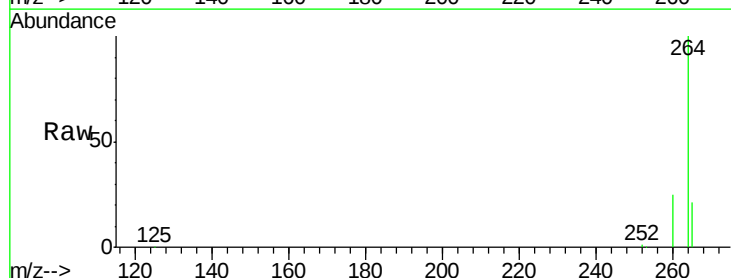
Tgt Ion:264 Resp: 185924

Ion Ratio Lower Upper

264 100

260 24.5 18.7 28.1

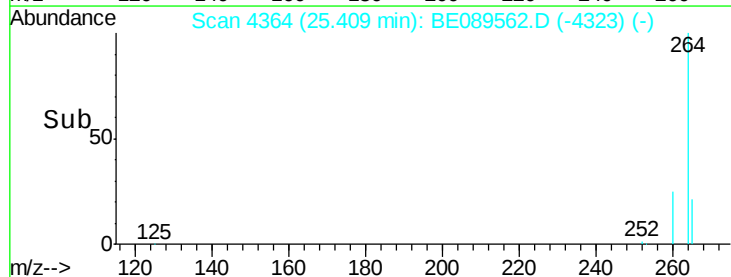
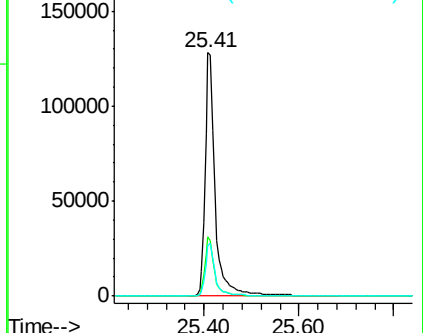
265 20.8 17.5 26.3



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

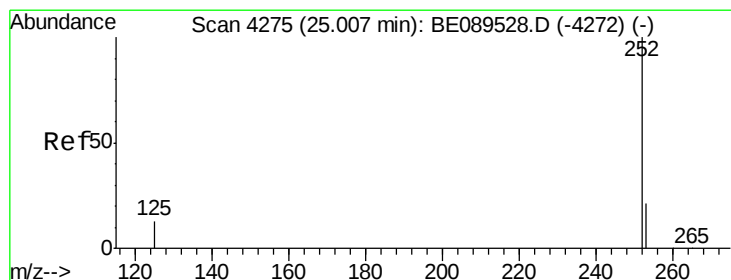
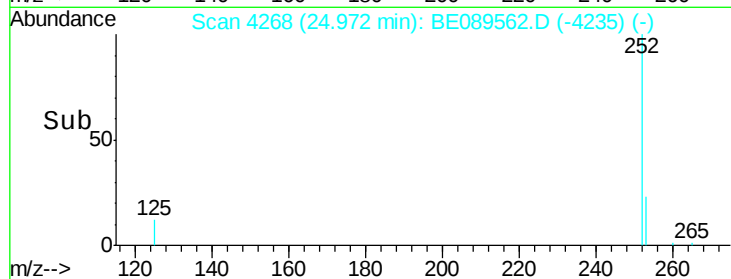
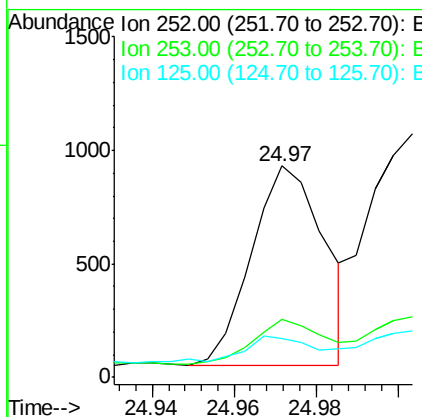
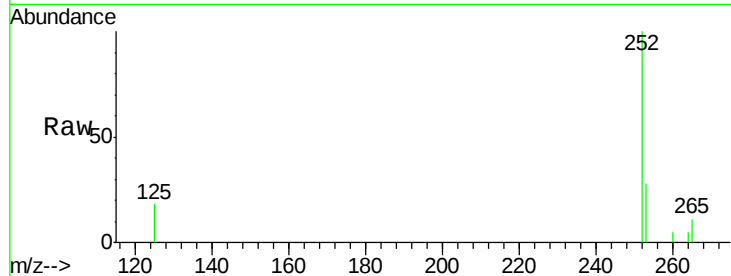




#23
Benzo(b)fluoranthene
Concen: 0.03 ng
RT: 24.97 min Scan# 4268
Delta R.T. -0.01 min
Lab File: BE089562.D
Acq: 7 Feb 2015 16:32

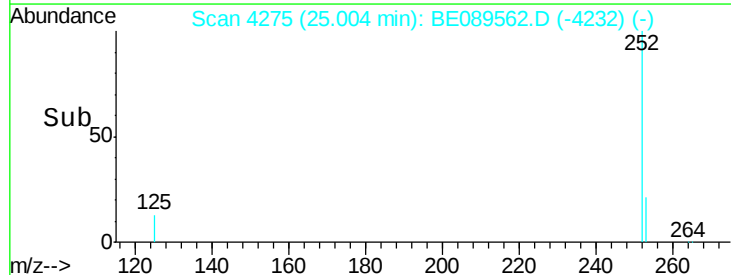
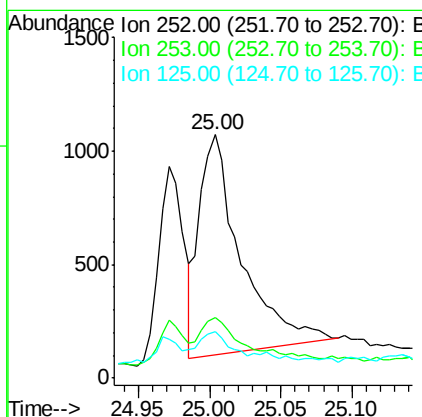
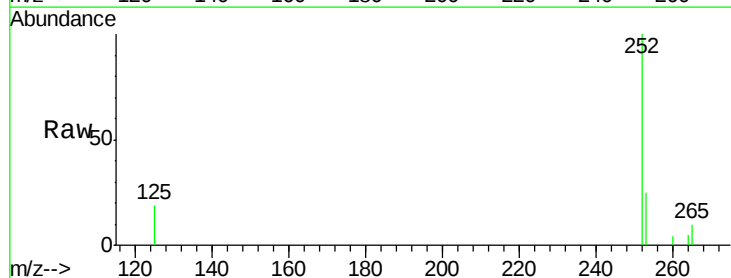
Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tgt Ion:252 Resp: 1082
Ion Ratio Lower Upper
252 100
253 27.6 17.4 26.0#
125 18.4 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: BE089562.D
Acq: 7 Feb 2015 16:32

Tgt Ion:252 Resp: 1964
Ion Ratio Lower Upper
252 100
253 25.1 17.2 25.8
125 19.1 10.6 15.8#





#25

Benzo(a)pyrene

Concen: 0.03 ng

RT: 25.34 min Scan# 4349

Delta R.T. -0.01 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

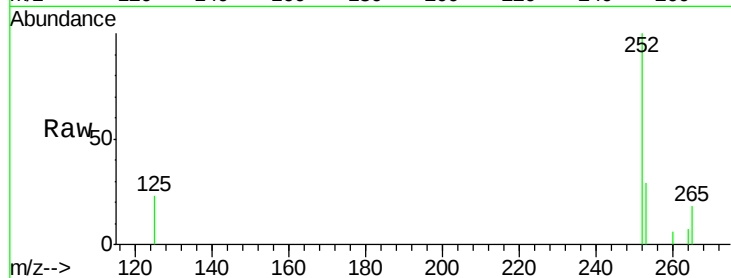
Tgt Ion:252 Resp: 1191

Ion Ratio Lower Upper

252 100

253 28.5 17.8 26.6#

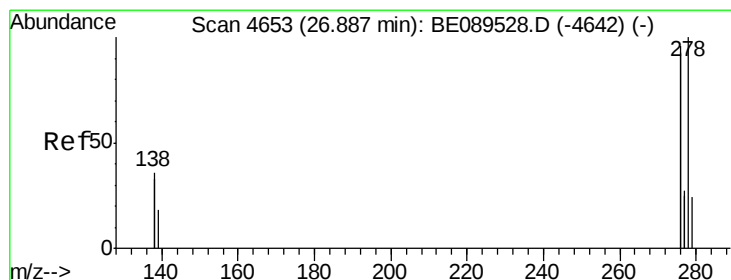
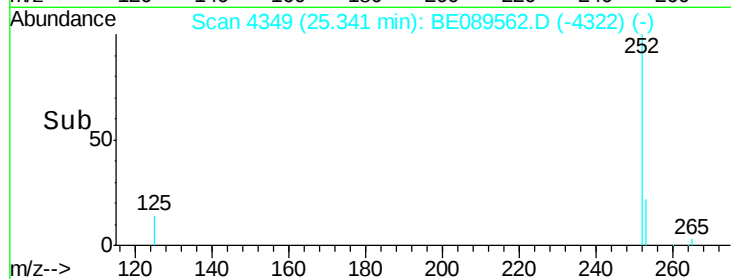
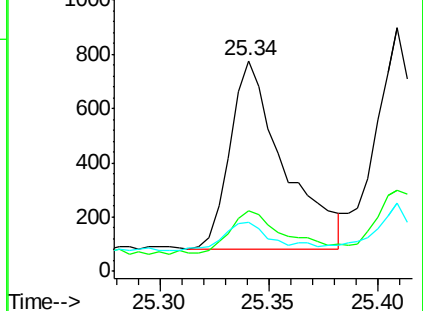
125 23.2 11.4 17.2#



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: 0.02 ng

RT: 26.87 min Scan# 4651

Delta R.T. -0.01 min

Lab File: BE089562.D

Acq: 7 Feb 2015 16:32

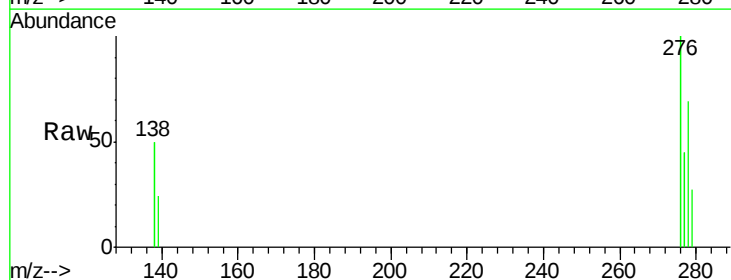
Tgt Ion:278 Resp: 961

Ion Ratio Lower Upper

278 100

139 35.0 15.7 23.5#

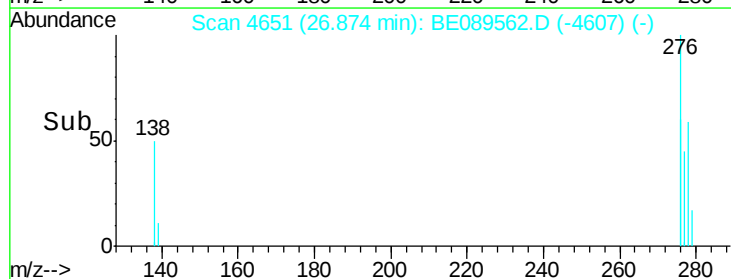
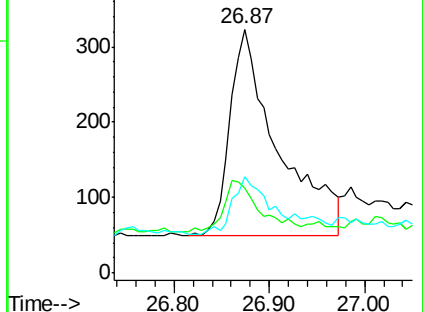
279 39.6 19.5 29.3#



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: 27.27 min Scan# 4712

Delta R.T. -0.01 min

Lab File: BE089562.D

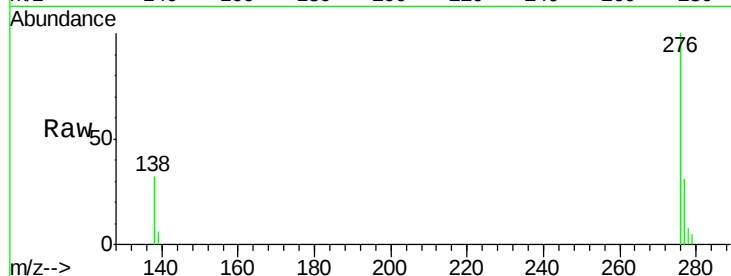
Acq: 7 Feb 2015 16:32

Instrument :

BNA_E

ClientSampleId :

MDL-01-W



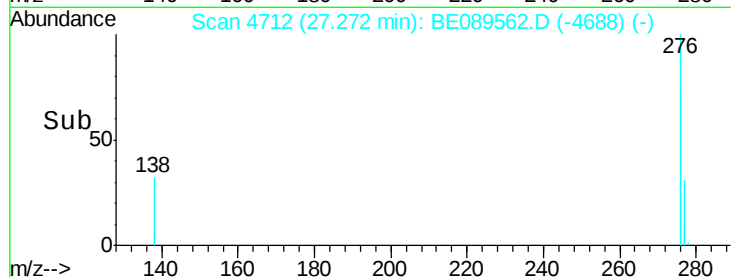
Tgt Ion: 276 Resp: 7185

Ion Ratio Lower Upper

276 100

277 30.7 18.6 27.8#

138 31.6 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

