

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089645.D
 Acq On : 20 Feb 2015 3:44
 Operator : TP/IZ
 Sample : MDL-08-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

Quant Time: Feb 20 12:56:32 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

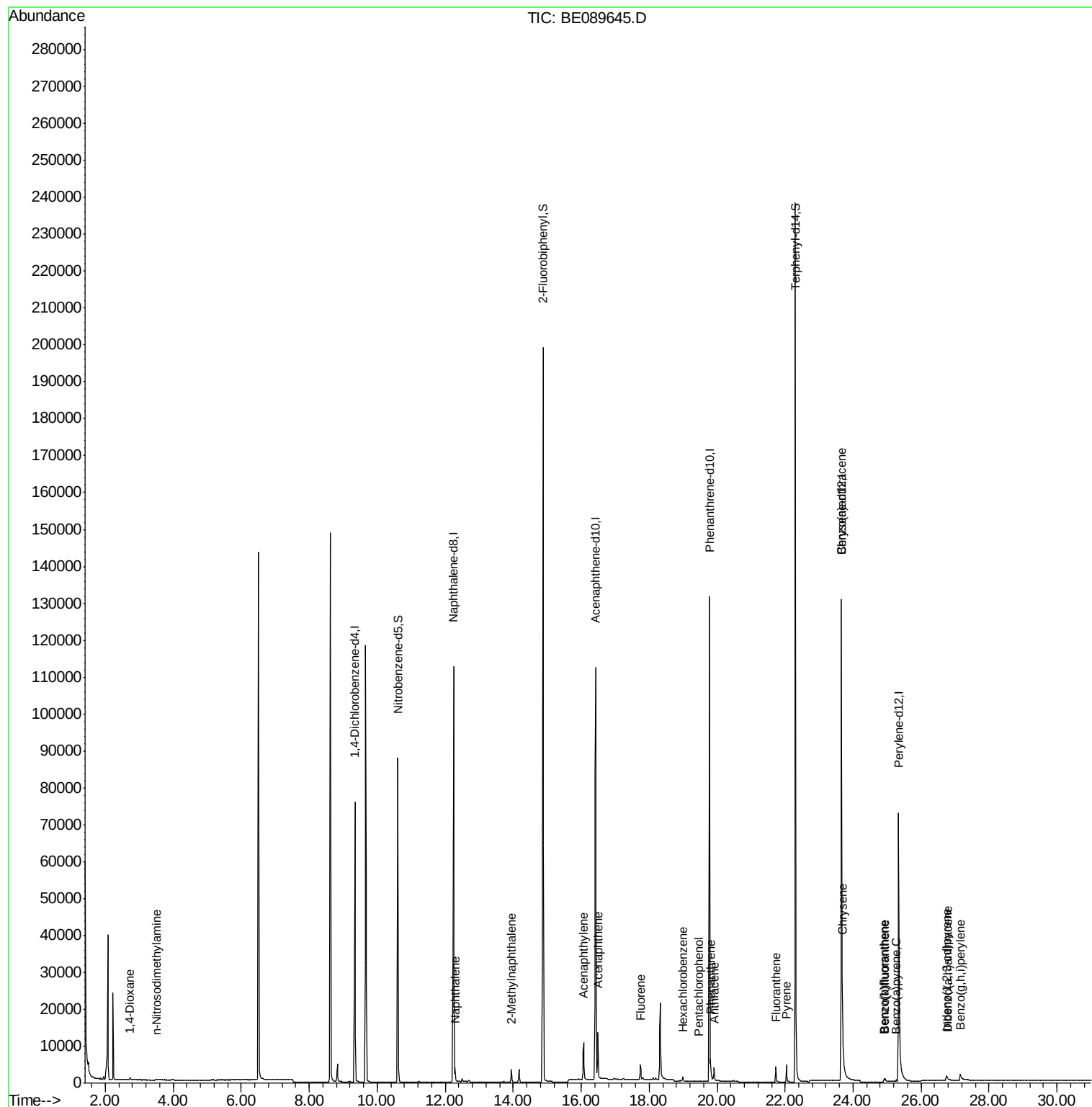
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	34015	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	135195	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	68944	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	135660	5.00	ng	0.00
19) Chrysene-d12	23.66	240	121056	5.00	ng	0.00
25) Perylene-d12	25.34	264	94277	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	62340	10.61	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	178629	9.67	ng	0.00
21) Terphenyl-d14	22.30	244	216170	12.42	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.72	88	639	0.15	ng	# 83
3) n-Nitrosodimethylamine	3.51	42	417m	0.10	ng	
6) Naphthalene	12.29	128	4599	0.15	ng	96
7) 2-Methylnaphthalene	13.95	142	2583	0.14	ng	100
10) Acenaphthylene	16.07	152	14030	0.13	ng	99
11) Acenaphthene	16.49	154	2641	0.15	ng	96
12) Fluorene	17.74	166	2946	0.14	ng	99
14) Hexachlorobenzene	19.00	284	933	0.16	ng	95
15) Pentachlorophenol	19.45	266	47	0.03	ng	# 70
16) Phenanthrene	19.82	178	4998	0.15	ng	98
17) Anthracene	19.91	178	3665	0.13	ng	99
18) Fluoranthene	21.72	202	3823	0.12	ng	100
20) Pyrene	22.04	202	4075	0.14	ng	99
22) Benzo(a)anthracene	23.65	228	11662	0.11	ng	95
23) Chrysene	23.69	228	20693	0.17	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	3511	0.21	ng	93
26) Benzo(b)fluoranthene	24.91	252	785	0.30	ng	# 87
27) Benzo(k)fluoranthene	24.94	252	2283m	0.09	ng	
28) Benzo(a)pyrene	25.27	252	885	0.28	ng	# 85
29) Dibenzo(a,h)anthracene	26.77	278	538	0.26	ng	# 66
30) Benzo(g,h,i)perylene	27.16	276	4990	0.19	ng	# 80

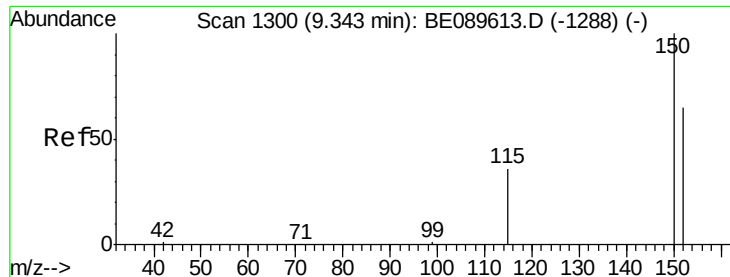
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

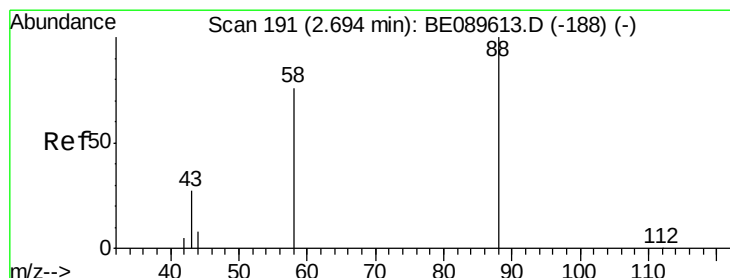
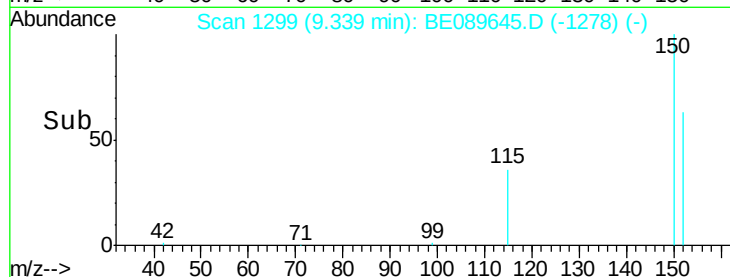
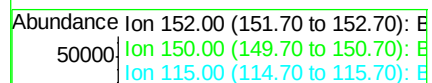
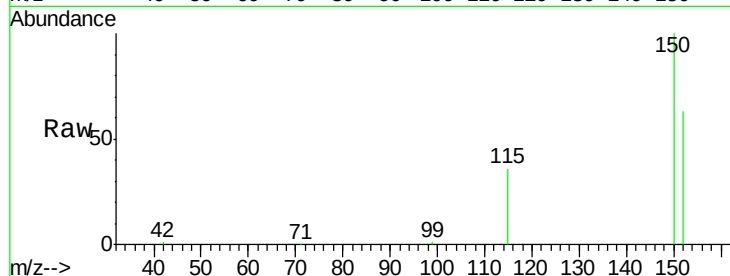
Tot Ion:152 Resp: 34015

Ion Ratio Lower Upper

152 100

150 158.2 122.4 183.6

115 56.5 44.2 66.2



#2

1,4-Dioxane

Concen: 0.15 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.03 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

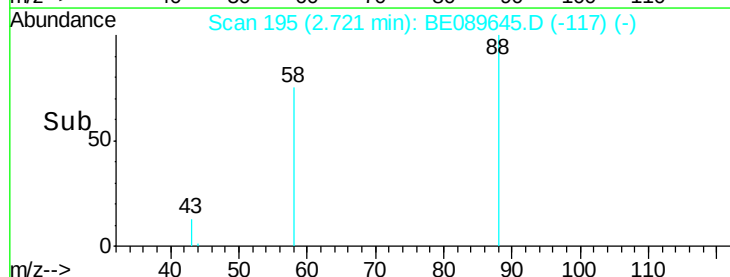
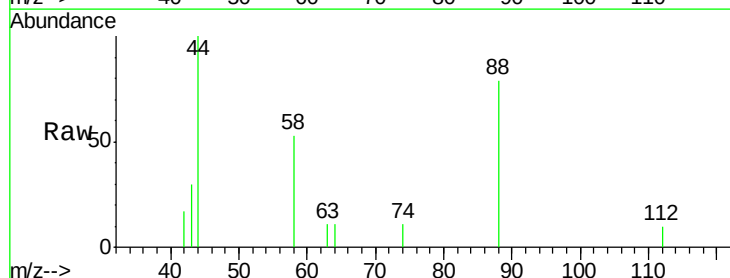
Tgt Ion: 88 Resp: 639

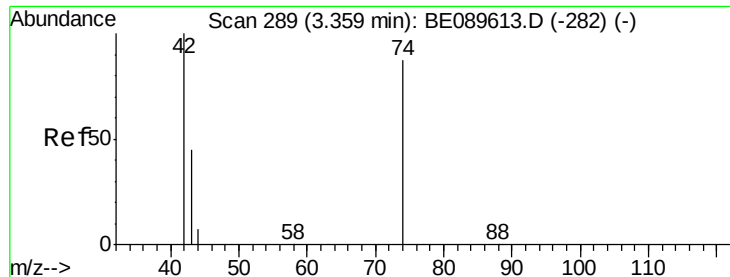
Ion Ratio Lower Upper

88 100

58 64.9 54.6 81.8

43 0.0 20.6 30.8#



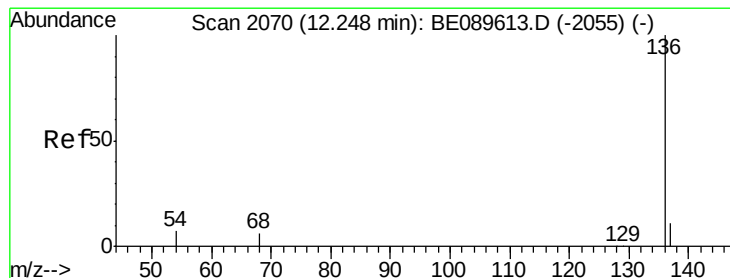
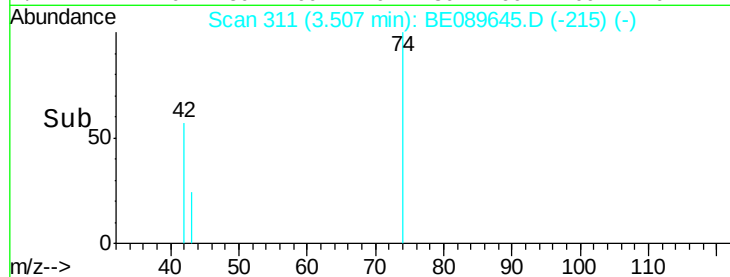
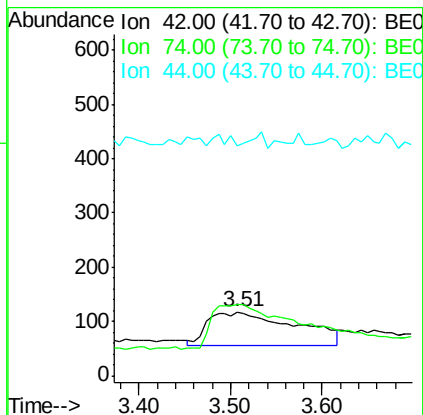
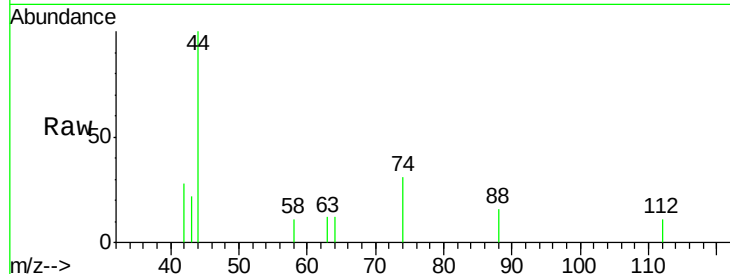


#3

n-Nitrosodimethylamine
 Concen: 0.10 ng/ml
 RT: 3.51 min Scan# 311
 Delta R.T. 0.15 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:44

Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

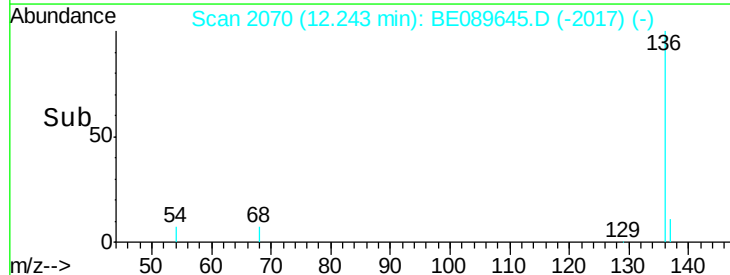
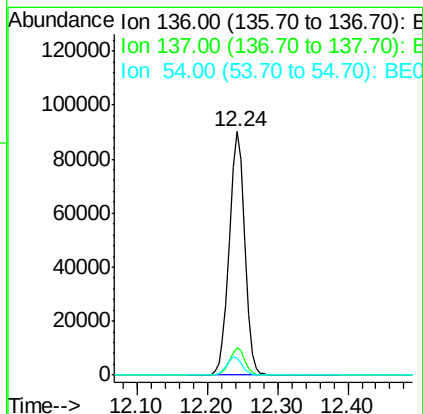
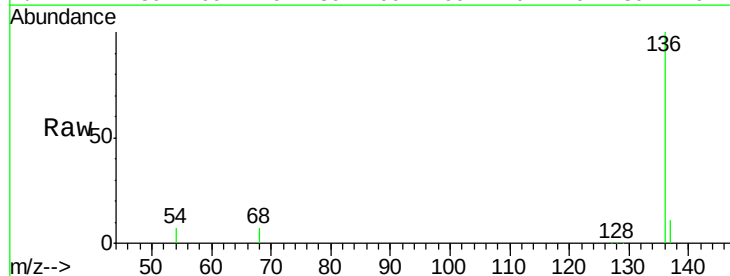
Tot Ion: 42 Resp: 417
 Ion Ratio Lower Upper
 42 100
 74 0.0 121.4 182.0#
 44 3.4 4.5 6.7#

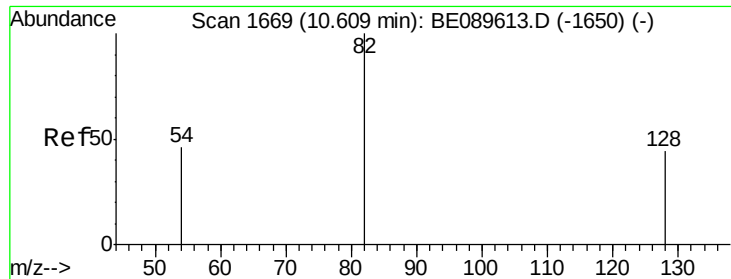


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2070
 Delta R.T. -0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:44

Tgt Ion: 136 Resp: 135195
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.9 13.3
 54 7.2 5.3 7.9





#5

Nitrobenzene-d5

Concen: 10.61 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

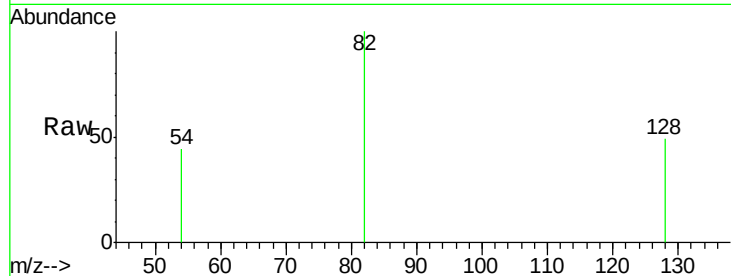
Tot Ion: 82 Resp: 62340

Ion Ratio Lower Upper

82 100

128 48.8 35.5 53.3

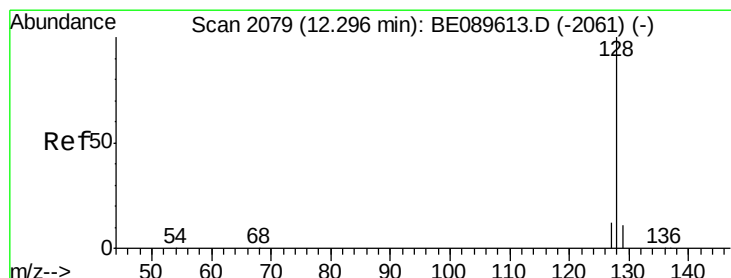
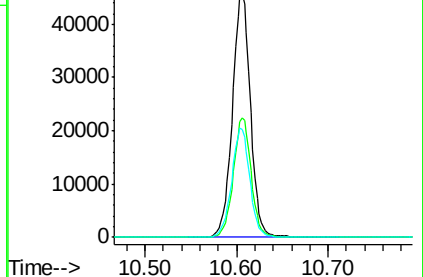
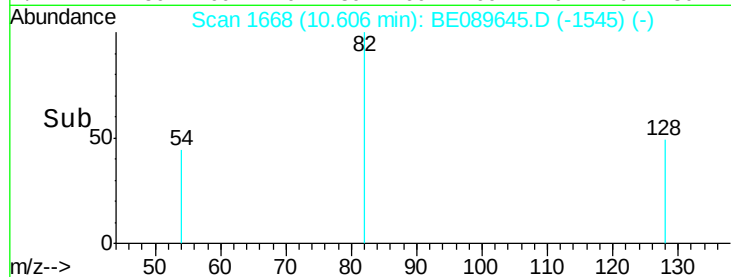
54 44.1 37.5 56.3



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



#6

Naphthalene

Concen: 0.15 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

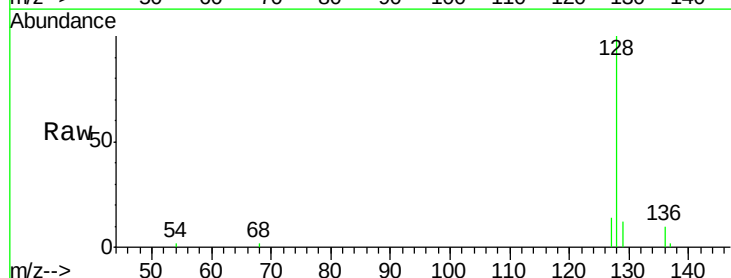
Tgt Ion: 128 Resp: 4599

Ion Ratio Lower Upper

128 100

129 12.1 8.9 13.3

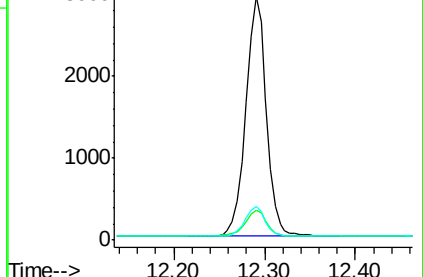
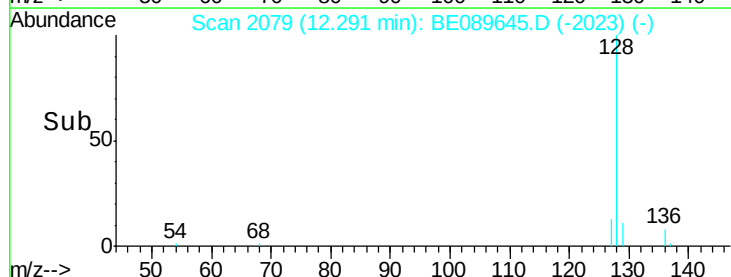
127 13.9 9.8 14.8

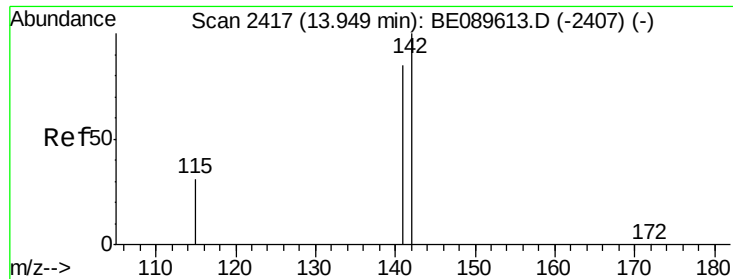


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 13.95 min Scan# 2418

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

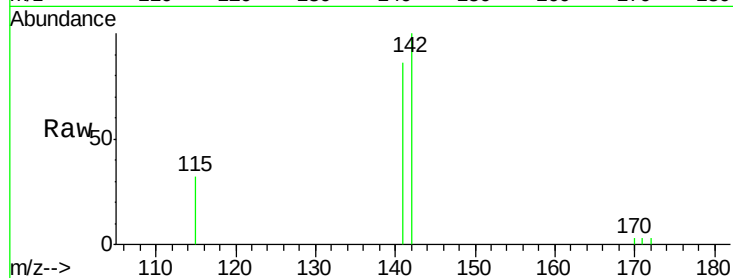
Tot Ion:142 Resp: 2583

Ion Ratio Lower Upper

142 100

141 85.6 68.3 102.5

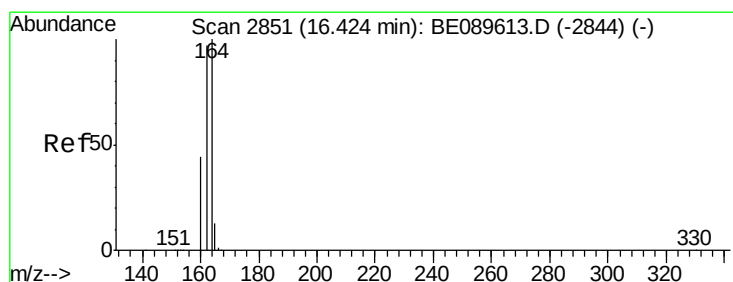
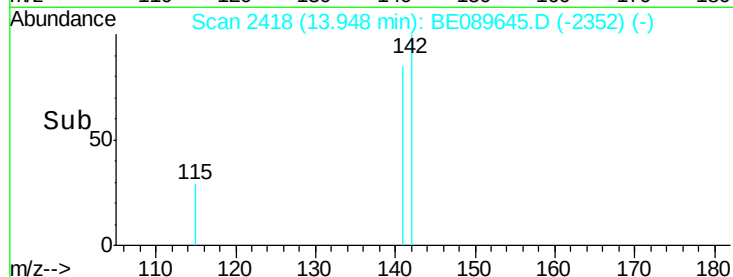
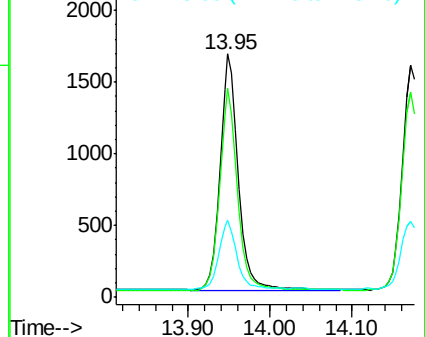
115 31.7 25.1 37.7



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

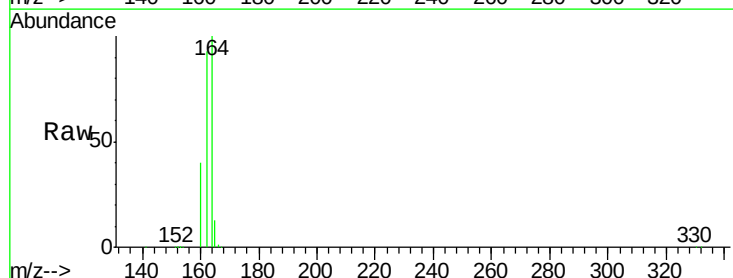
Tgt Ion:164 Resp: 68944

Ion Ratio Lower Upper

164 100

162 92.7 77.5 116.3

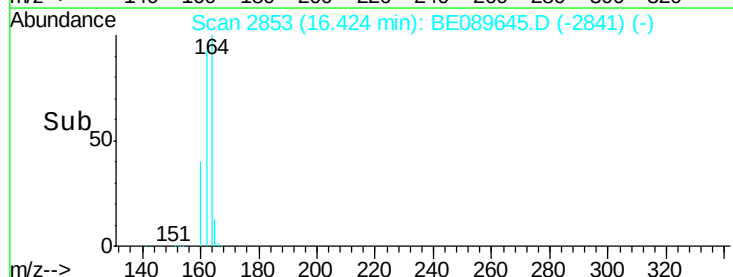
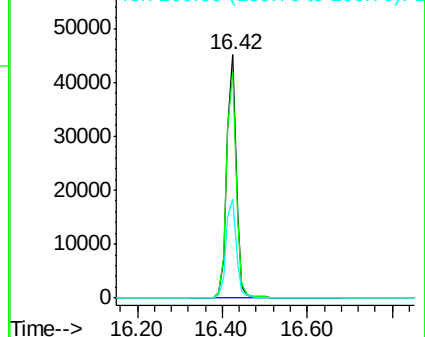
160 40.5 35.5 53.3

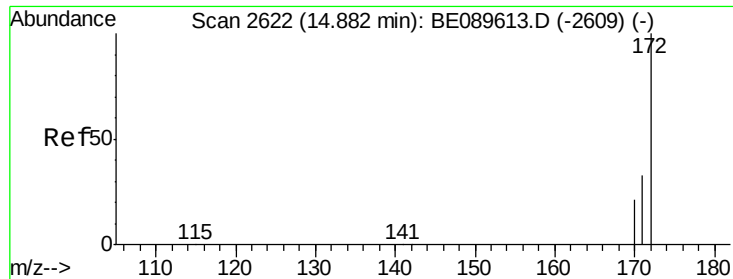


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.67 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

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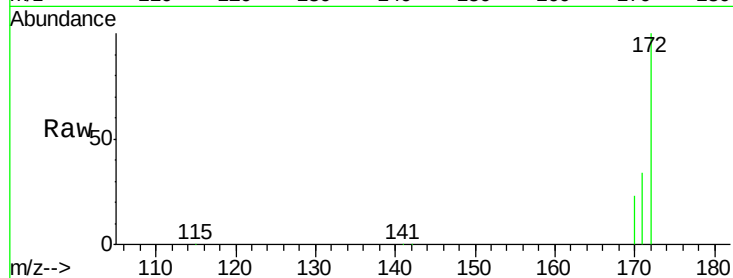
Tot Ion:172 Resp: 178629

Ion Ratio Lower Upper

172 100

171 34.3 26.9 40.3

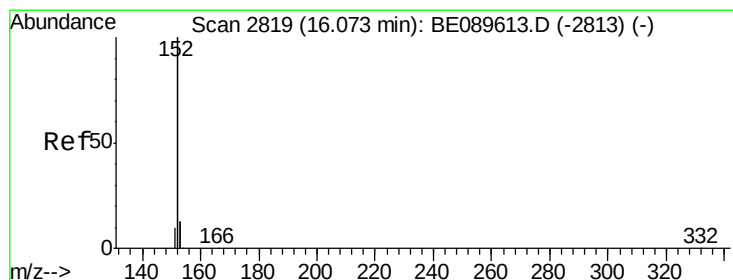
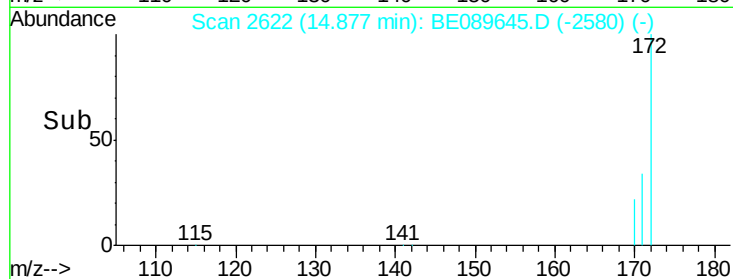
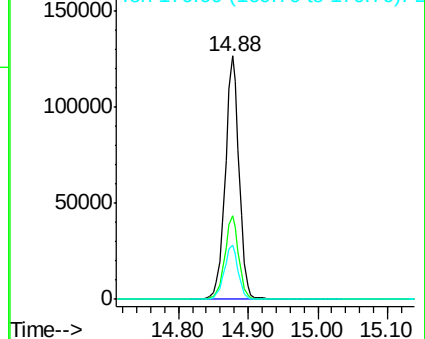
170 22.5 17.4 26.0



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



#10

Acenaphthylene

Concen: 0.13 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

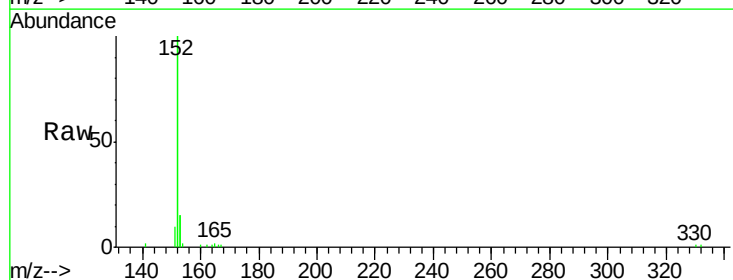
Tgt Ion:152 Resp: 14030

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

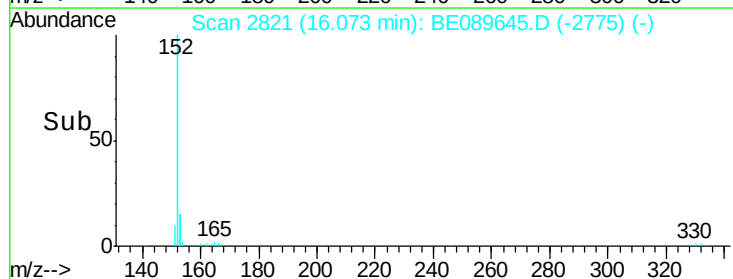
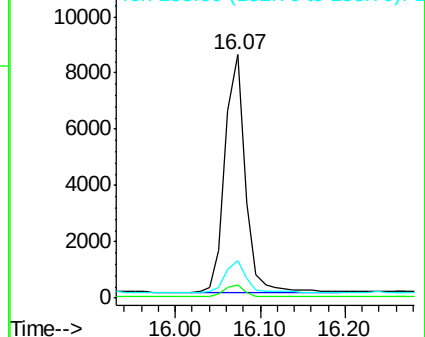
153 13.4 10.5 15.7

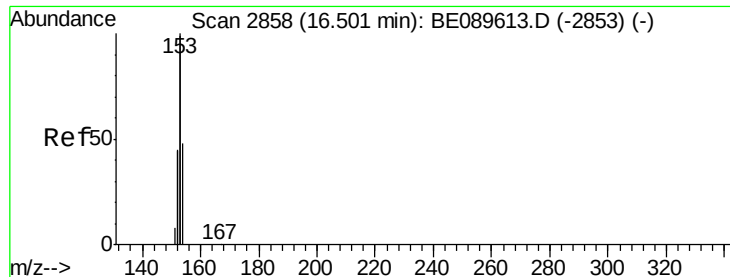


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.15 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

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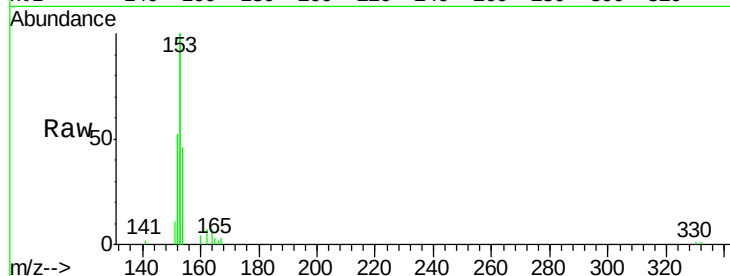
Tot Ion:154 Resp: 2641

Ion Ratio Lower Upper

154 100

153 428.6 348.9 523.3

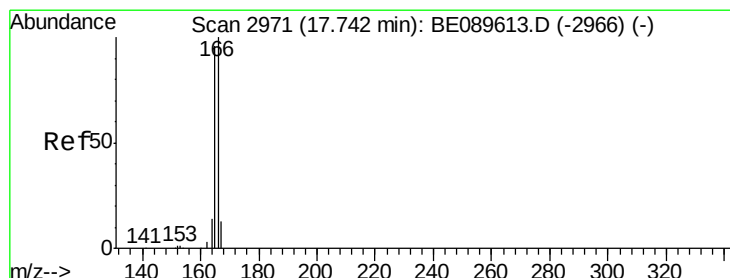
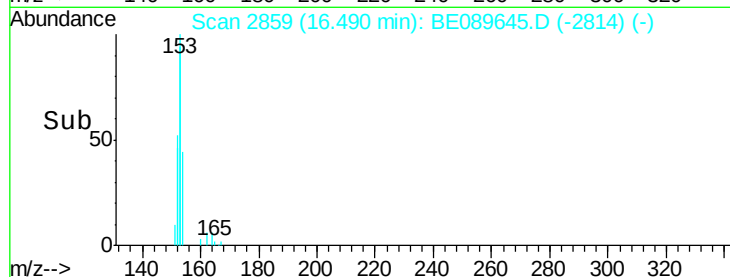
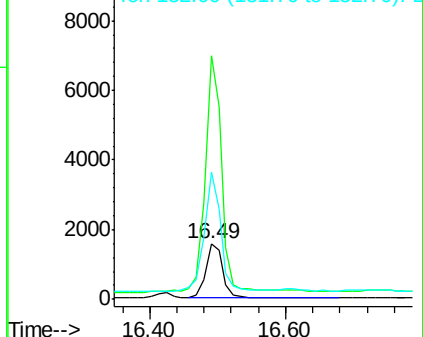
152 219.0 166.6 249.8



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



#12

Fluorene

Concen: 0.14 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

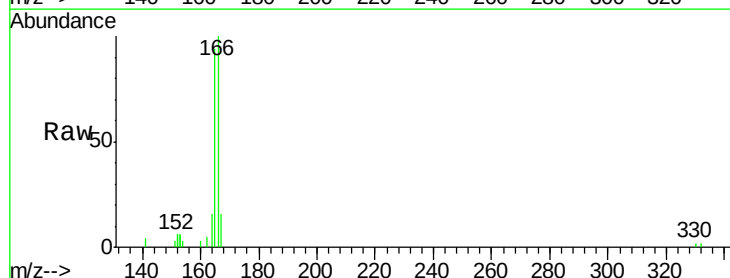
Tgt Ion:166 Resp: 2946

Ion Ratio Lower Upper

166 100

165 94.1 74.7 112.1

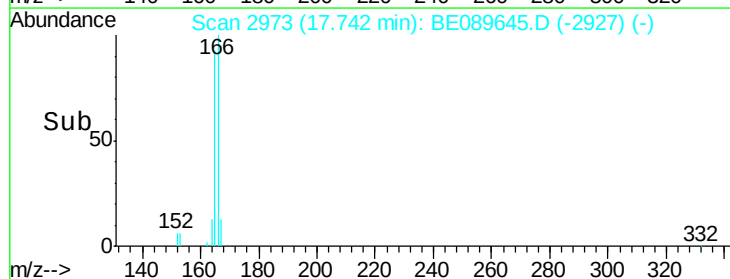
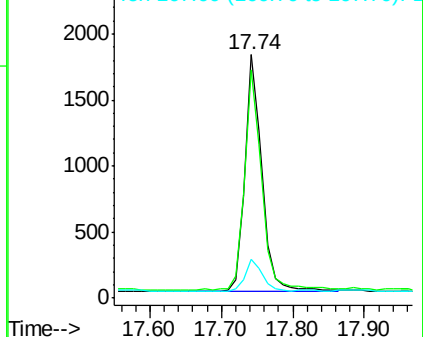
167 13.9 10.5 15.7

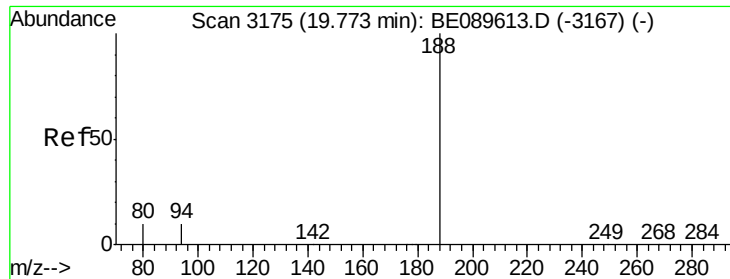


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

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ClientSampleId :

MDL-08-W

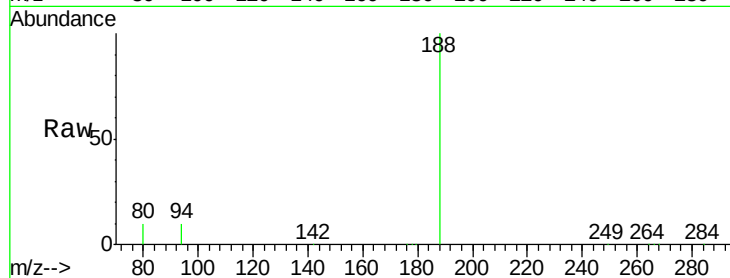
Tot Ion:188 Resp: 135660

Ion Ratio Lower Upper

188 100

94 10.0 8.2 12.4

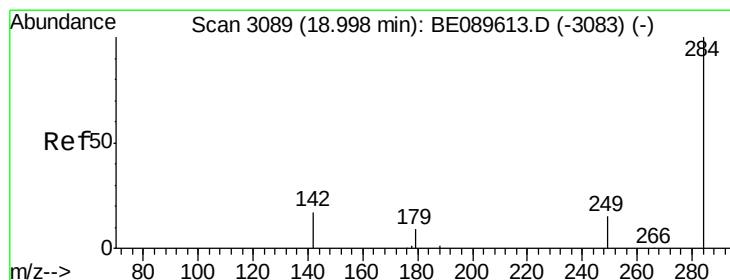
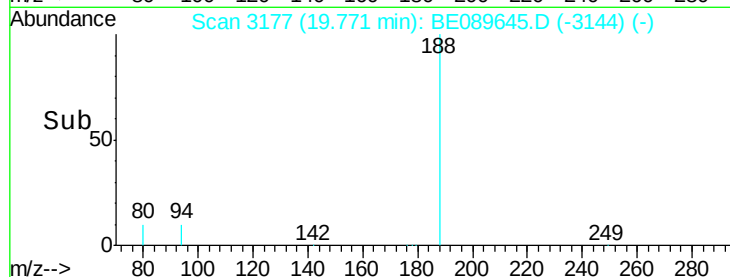
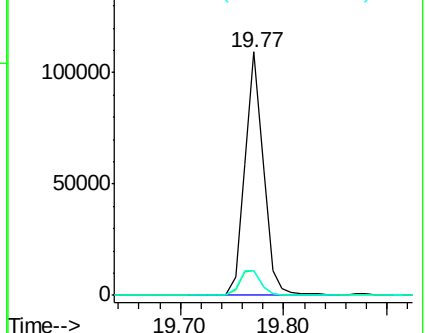
80 9.9 8.1 12.1



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



#14

Hexachlorobenzene

Concen: 0.16 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

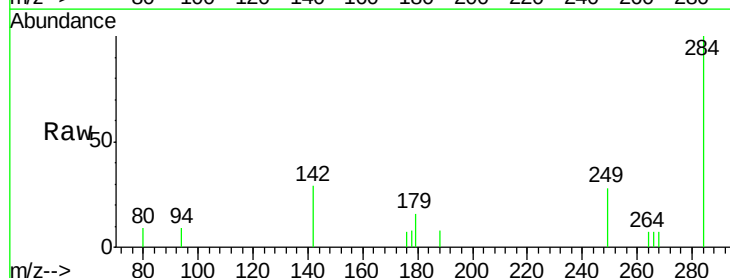
Tgt Ion:284 Resp: 933

Ion Ratio Lower Upper

284 100

142 45.3 32.3 48.5

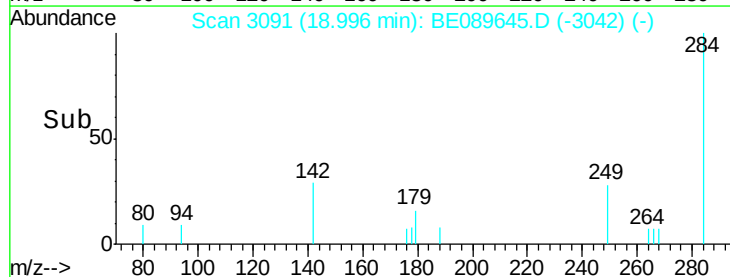
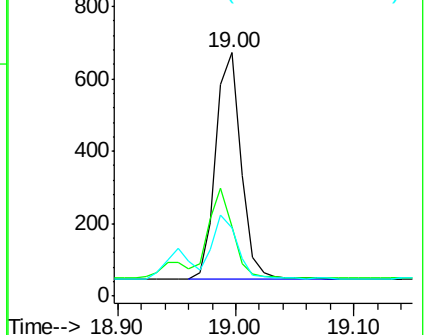
249 27.9 22.3 33.5

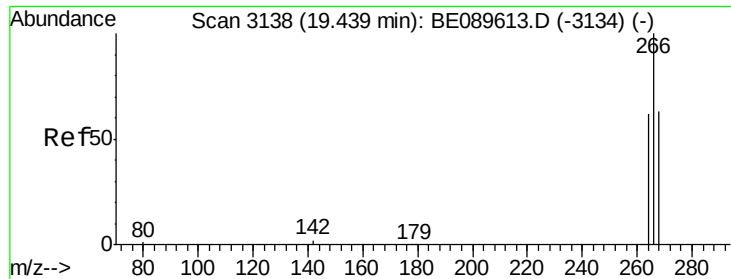


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

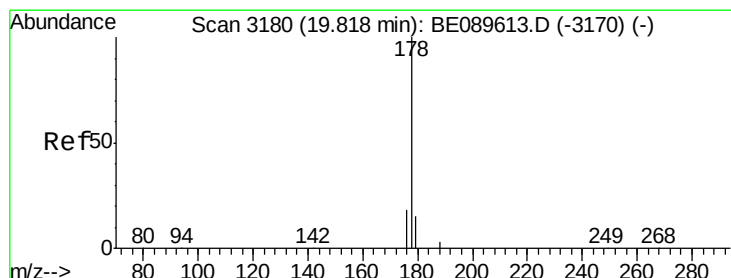
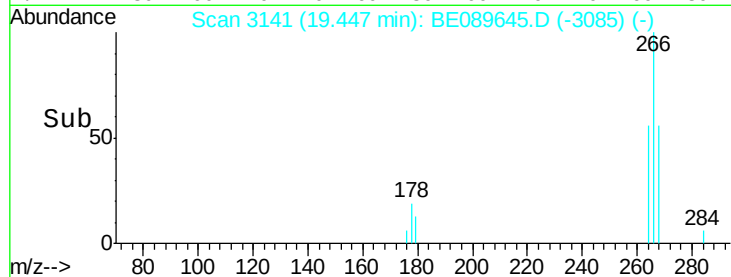
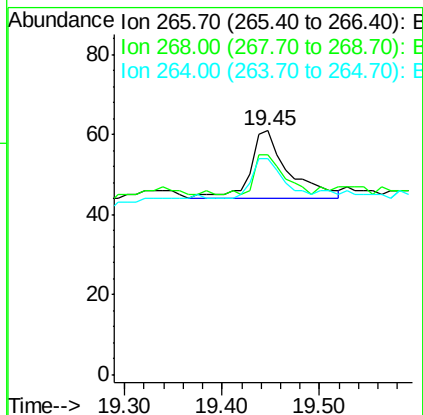
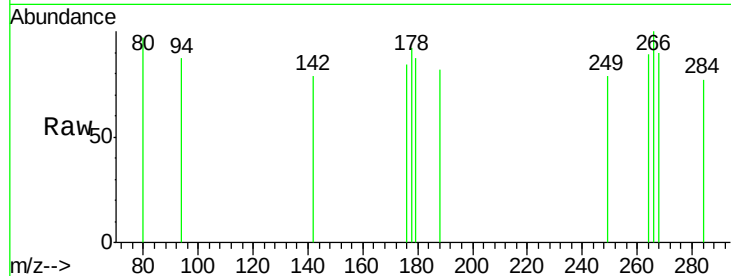




#15
 Pentachlorophenol
 Concen: 0.03 ng
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:44

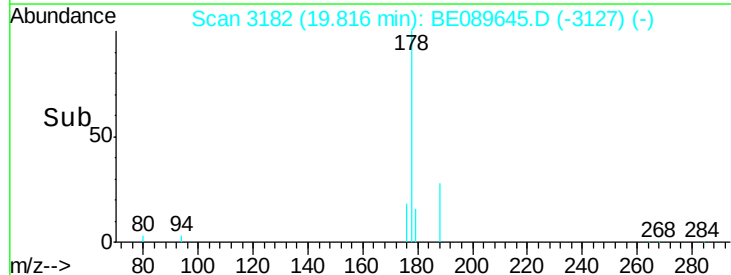
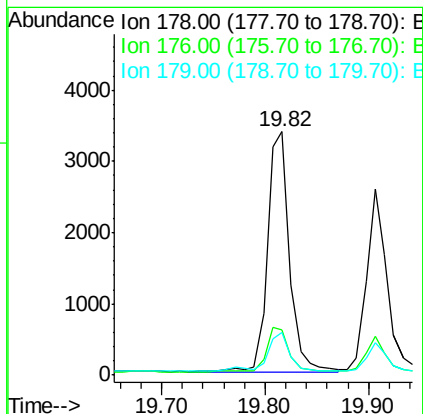
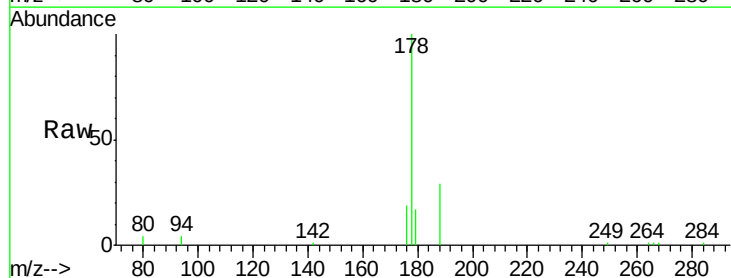
Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

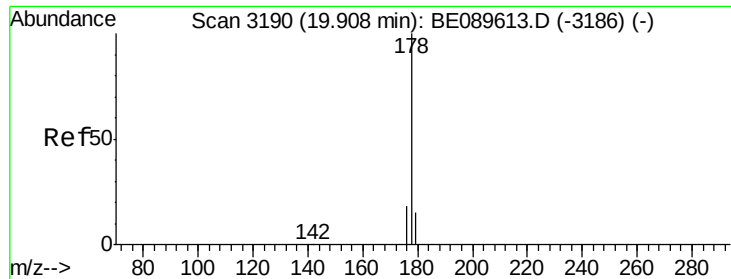
Tot Ion:266 Resp: 47
 Ion Ratio Lower Upper
 266 100
 268 90.2 52.6 79.0#
 264 88.5 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.15 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:44

Tgt Ion:178 Resp: 4998
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.1 22.7
 179 16.9 12.3 18.5

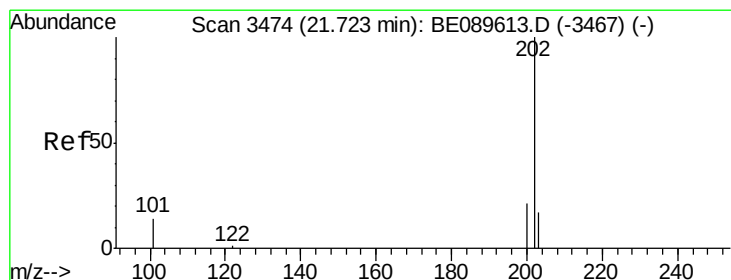
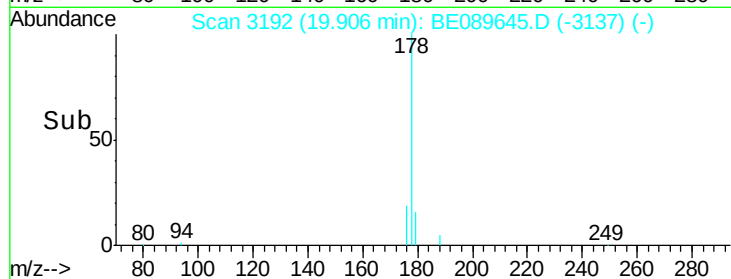
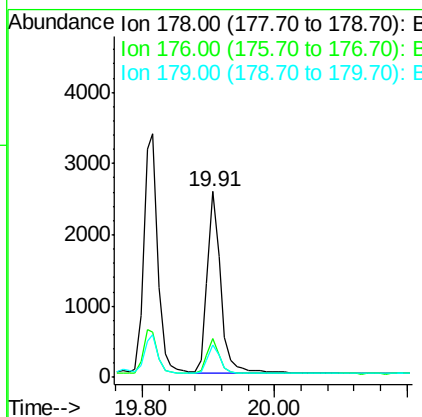
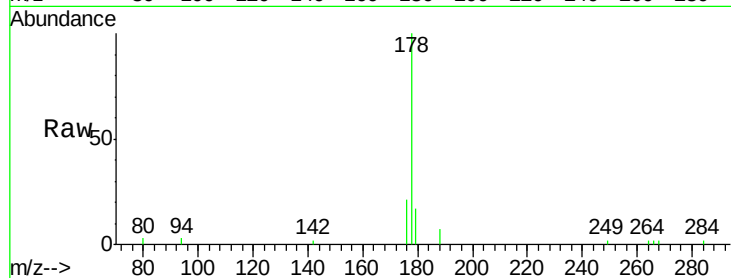




#17
 Anthracene
 Concen: 0.13 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:44

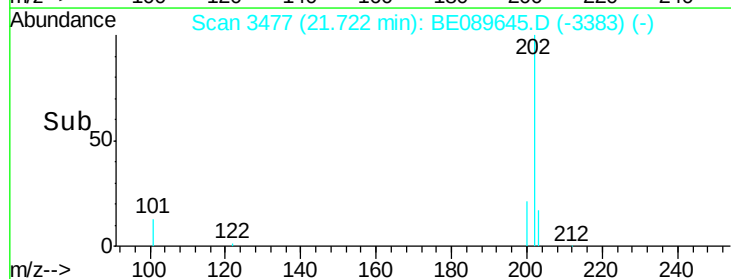
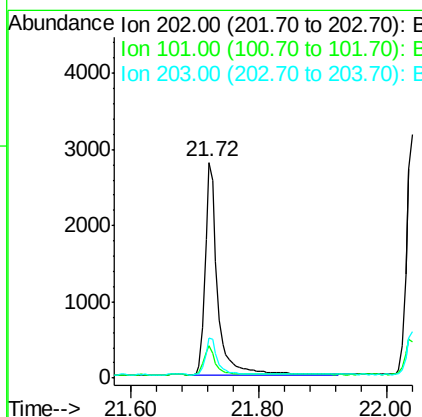
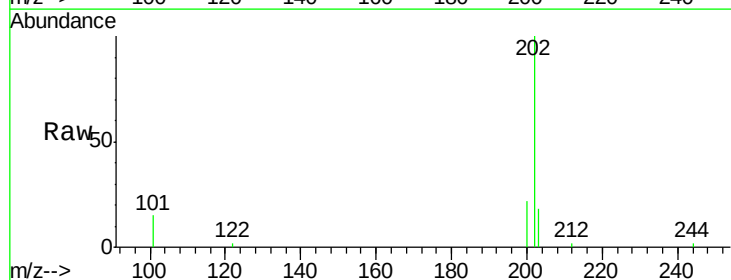
Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

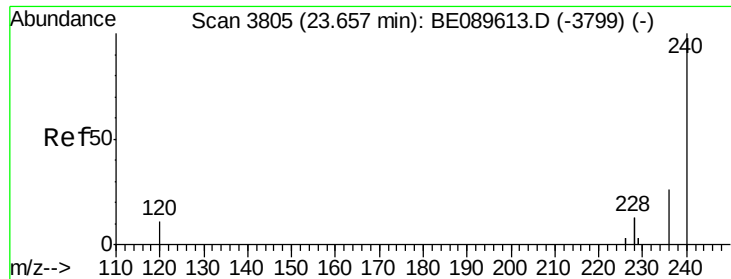
Tot Ion:178 Resp: 3665
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.6 22.0
 179 14.5 12.3 18.5



#18
 Fluoranthene
 Concen: 0.12 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:44

Tgt Ion:202 Resp: 3823
 Ion Ratio Lower Upper
 202 100
 101 12.6 10.4 15.6
 203 17.4 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. 0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

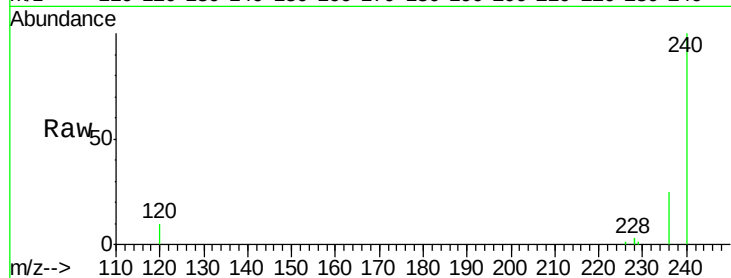
Tot Ion:240 Resp: 121056

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.4

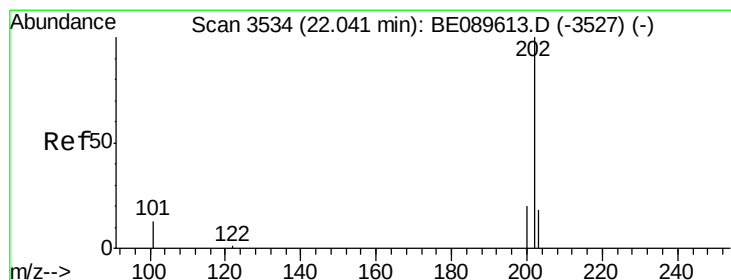
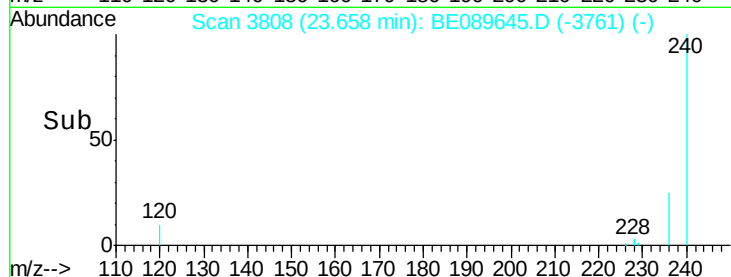
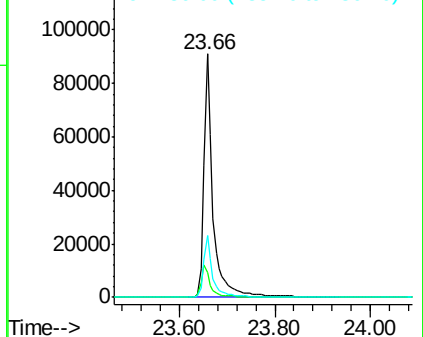
236 25.4 21.0 31.6



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



#20

Pyrene

Concen: 0.14 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

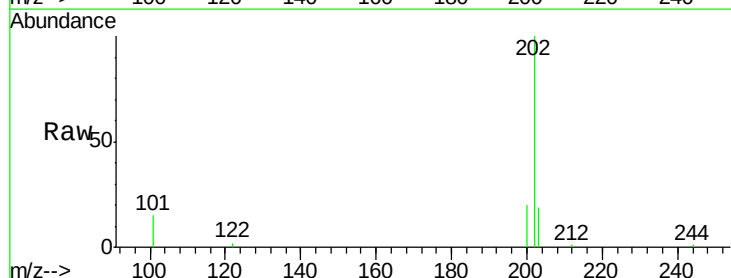
Tgt Ion:202 Resp: 4075

Ion Ratio Lower Upper

202 100

200 20.0 16.3 24.5

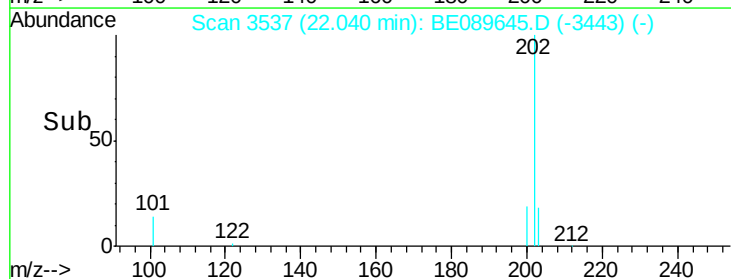
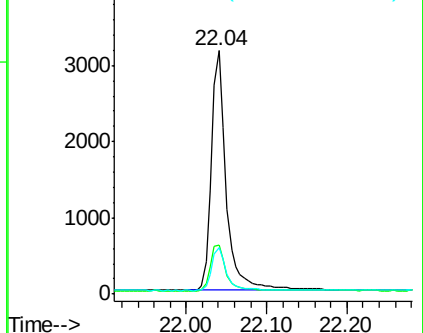
203 18.1 13.8 20.8

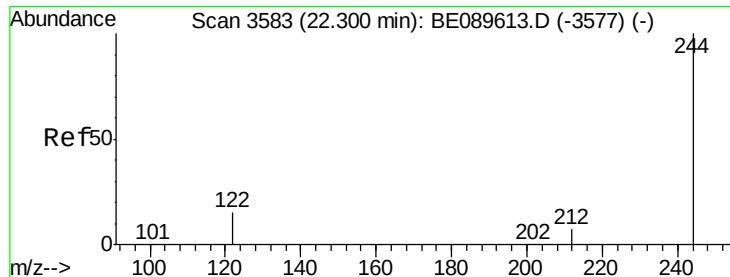


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 12.42 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

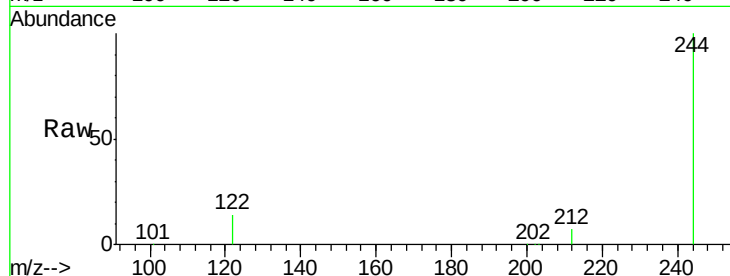
Tot Ion:244 Resp: 216170

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.8

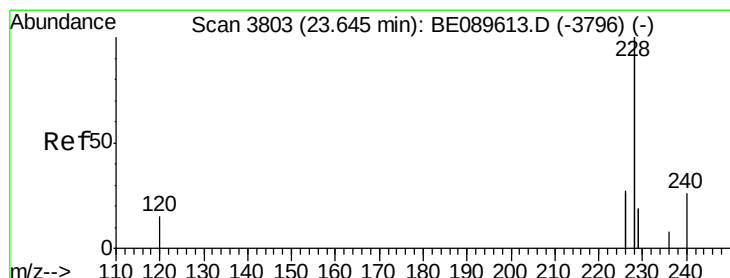
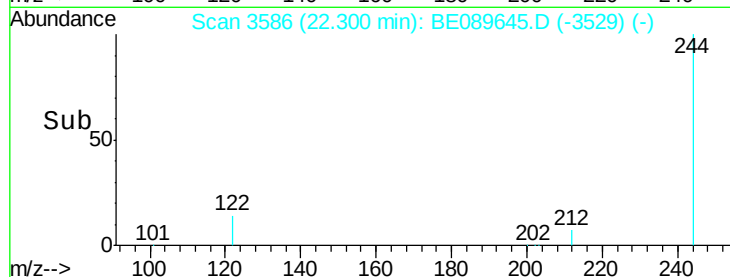
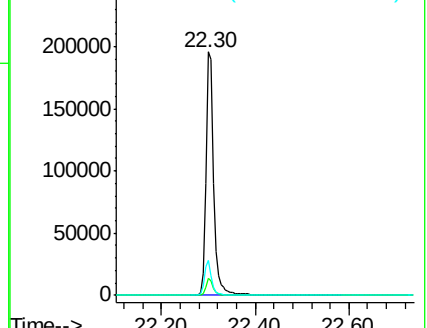
122 14.4 11.8 17.8



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



#22

Benzo(a)anthracene

Concen: 0.11 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

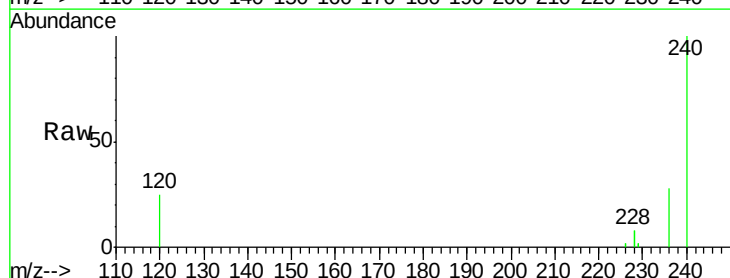
Tgt Ion:228 Resp: 11662

Ion Ratio Lower Upper

228 100

226 25.3 21.2 31.8

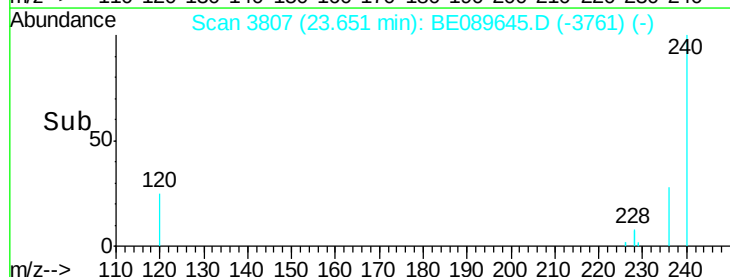
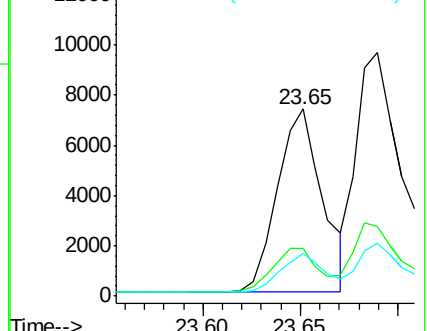
229 22.8 15.2 22.8

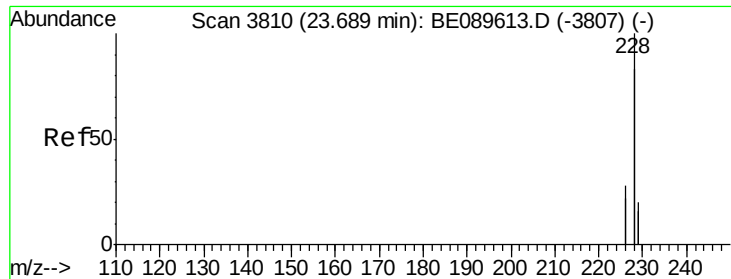


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.17 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

BNA_E

ClientSampled :

MDL-08-W

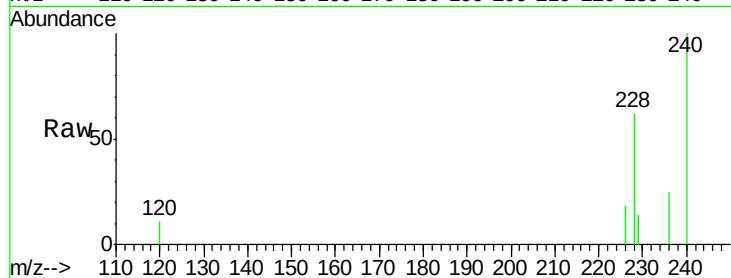
Tot Ion:228 Resp: 20693

Ion Ratio Lower Upper

228 100

226 28.4 22.2 33.4

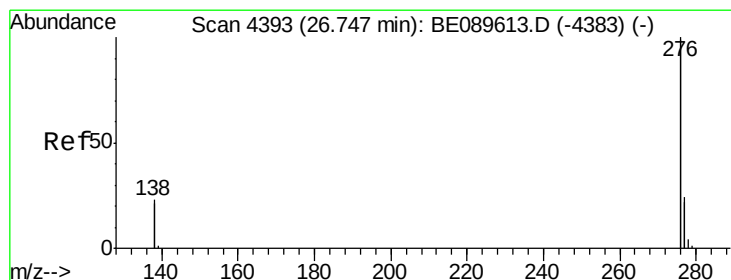
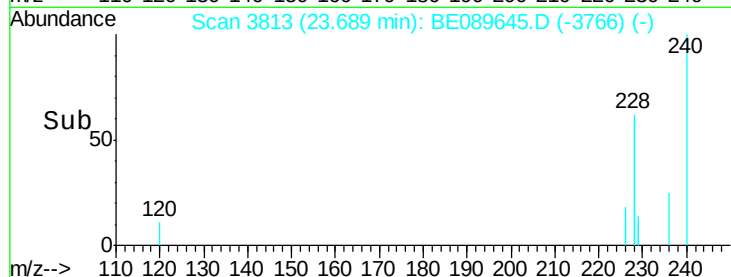
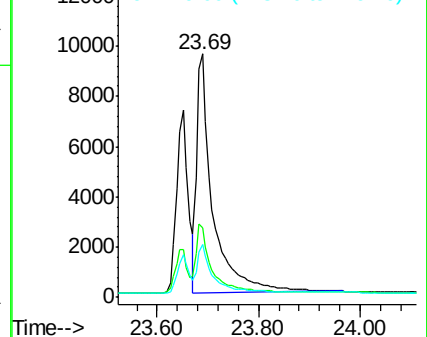
229 21.8 16.0 24.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.21 ng

RT: 26.74 min Scan# 4395

Delta R.T. -0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

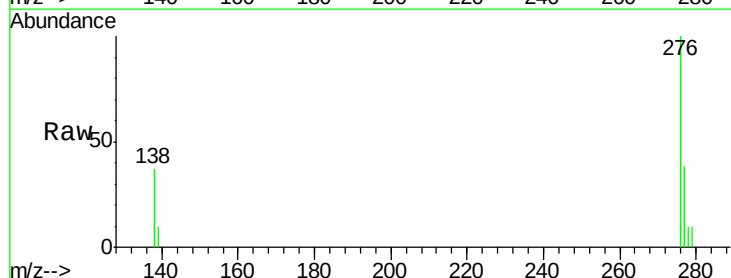
Tgt Ion:276 Resp: 3511

Ion Ratio Lower Upper

276 100

138 22.3 21.4 32.2

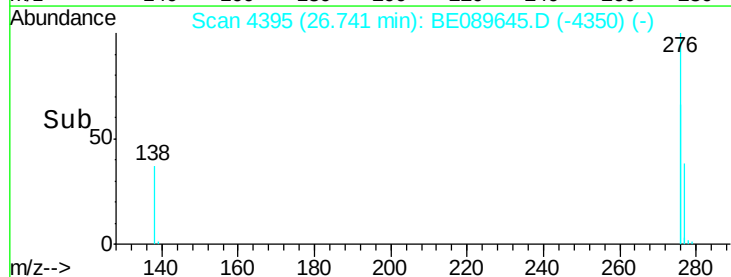
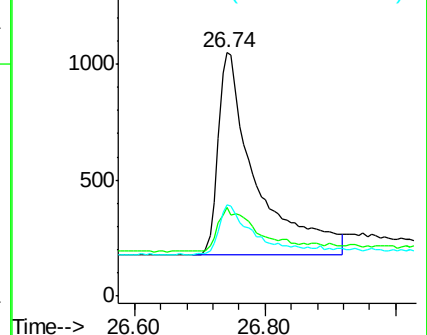
277 22.6 19.9 29.9

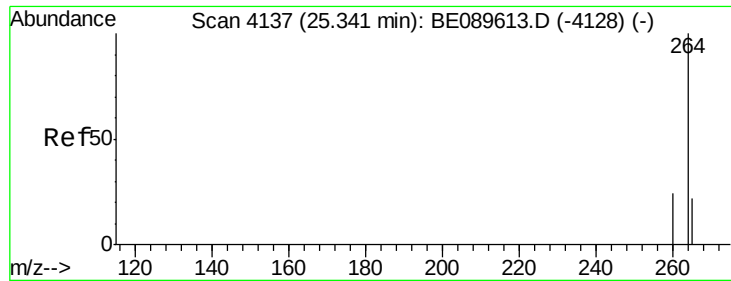


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

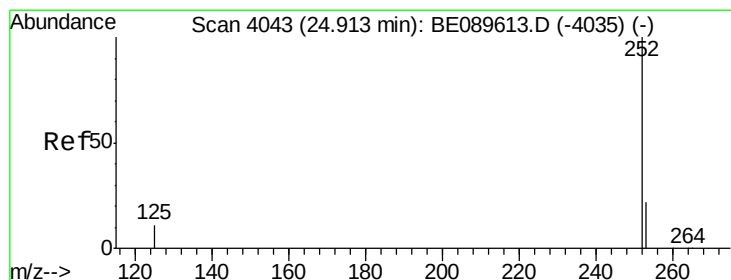
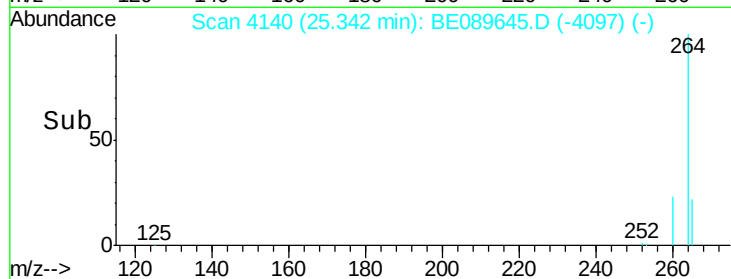
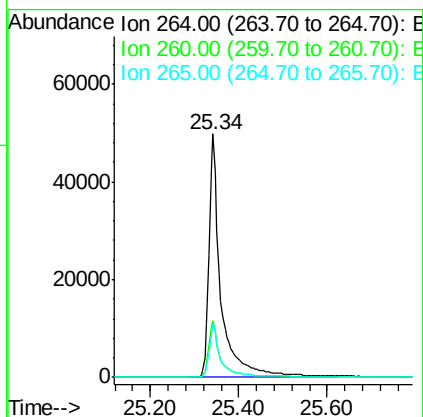
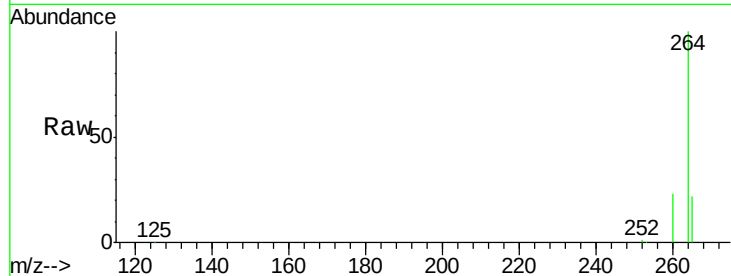




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4140
Delta R.T. 0.00 min
Lab File: BE089645.D
Acq: 20 Feb 2015 3:44

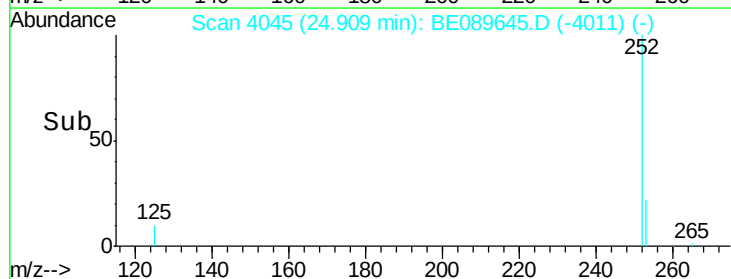
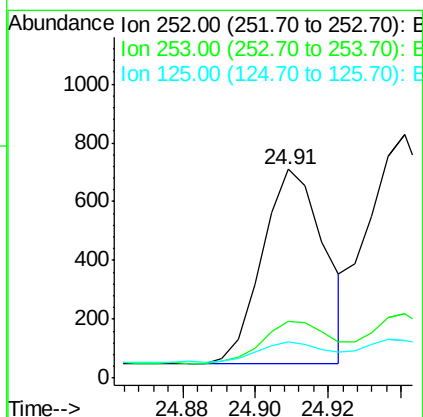
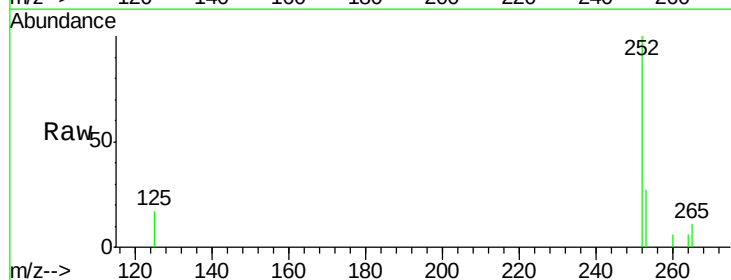
Instrument :
BNA_E
ClientSampleId :
MDL-08-W

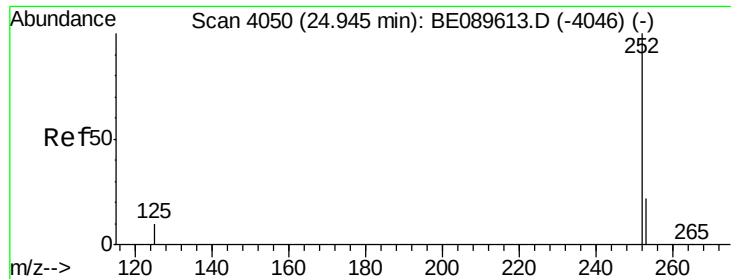
Tot Ion:264 Resp: 94277
Ion Ratio Lower Upper
264 100
260 23.4 19.0 28.6
265 21.7 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.30 ng
RT: 24.91 min Scan# 4045
Delta R.T. -0.00 min
Lab File: BE089645.D
Acq: 20 Feb 2015 3:44

Tgt Ion:252 Resp: 785
Ion Ratio Lower Upper
252 100
253 27.2 17.6 26.4#
125 17.1 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.09 ng/mL

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

Instrument :

BNA_E

ClientSampled :

MDL-08-W

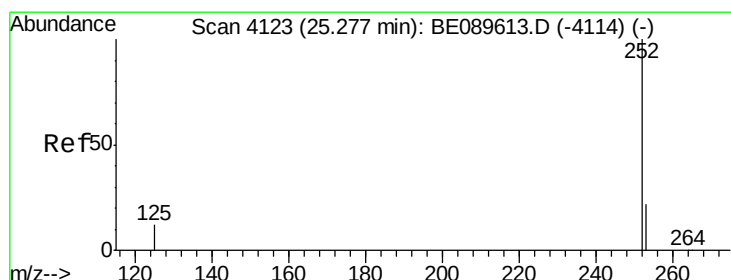
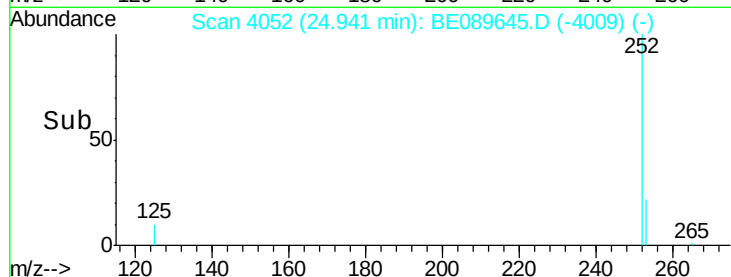
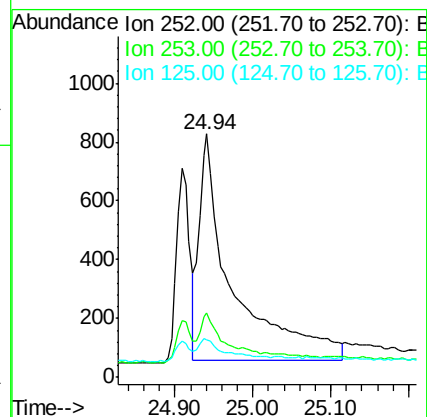
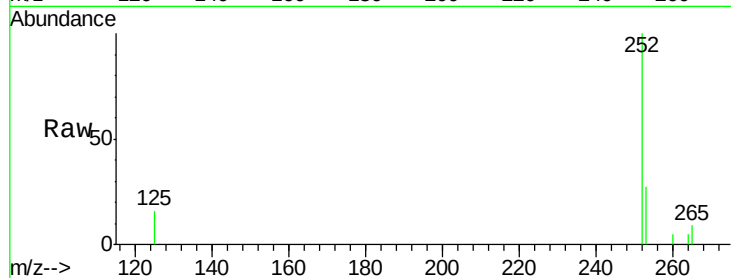
Tot Ion:252 Resp: 2283

Ion Ratio Lower Upper

252 100

253 26.7 17.7 26.5#

125 15.6 8.8 13.2#



#28

Benzo(a)pyrene

Concen: 0.28 ng/mL

RT: 25.27 min Scan# 4124

Delta R.T. -0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:44

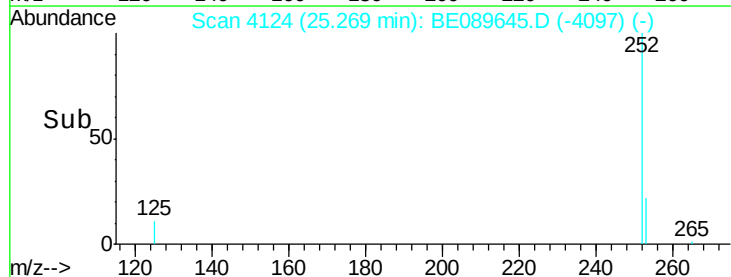
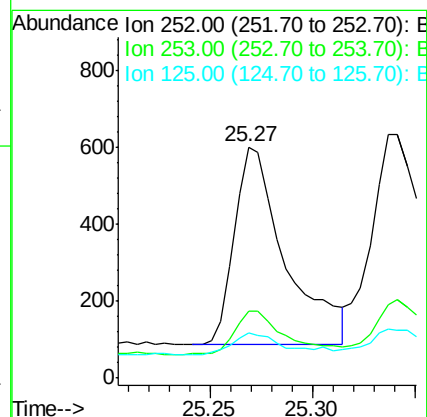
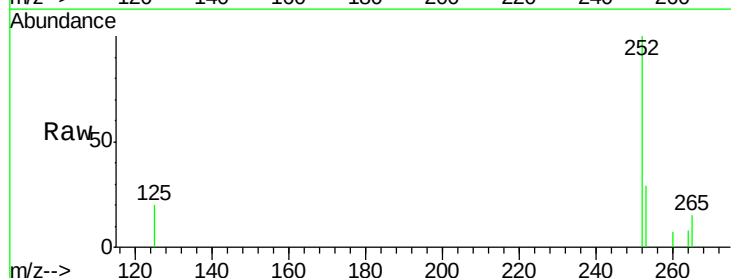
Tgt Ion:252 Resp: 885

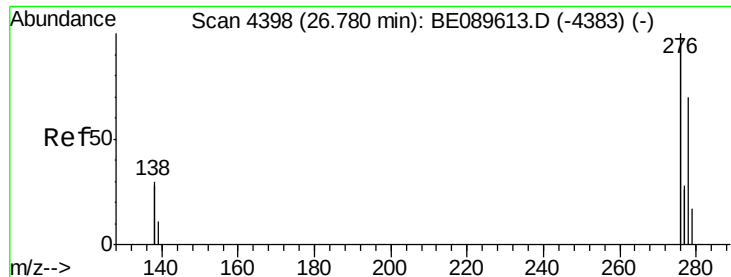
Ion Ratio Lower Upper

252 100

253 29.0 18.1 27.1#

125 19.5 9.6 14.4#

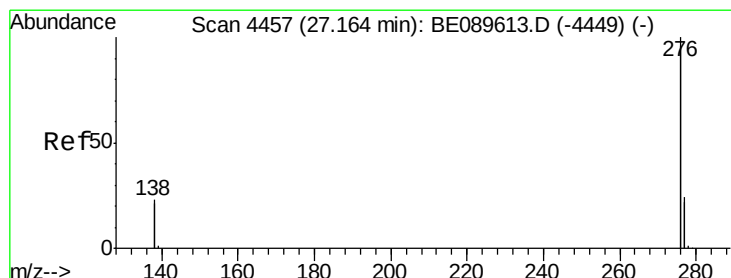
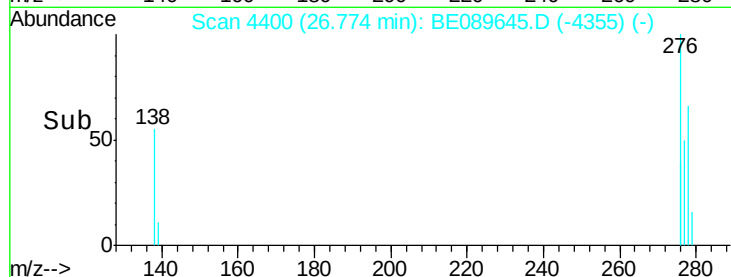
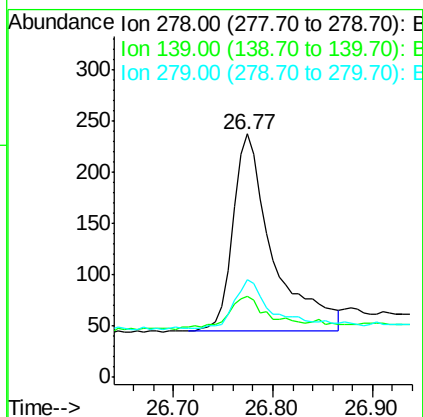
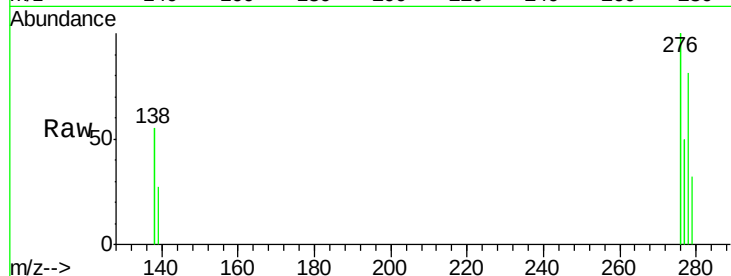




#29
Dibenzo(a,h)anthracene
Concen: 0.26 ng
RT: 26.77 min Scan# 4400
Delta R.T. -0.00 min
Lab File: BE089645.D
Acq: 20 Feb 2015 3:44

Instrument :
BNA_E
ClientSampleId :
MDL-08-W

Tot Ion:278 Resp: 538
Ion Ratio Lower Upper
278 100
139 33.3 13.7 20.5#
279 40.1 19.7 29.5#



#30
Benzo(g,h,i)perylene
Concen: 0.19 ng
RT: 27.16 min Scan# 4459
Delta R.T. -0.01 min
Lab File: BE089645.D
Acq: 20 Feb 2015 3:44

Tgt Ion:276 Resp: 4990
Ion Ratio Lower Upper
276 100
277 33.6 19.1 28.7#
138 33.4 18.7 28.1#

