

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089637.D
 Acq On : 19 Feb 2015 14:36
 Operator : TP/IZ
 Sample : MDL-06-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-S

Quant Time: Feb 20 01:14:56 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	35985	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	144708	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	73986	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	144855	5.00	ng	0.00
19) Chrysene-d12	23.66	240	124621	5.00	ng	0.00
25) Perylene-d12	25.34	264	98499	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	66608	10.59	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	180809	9.12	ng	0.00
21) Terphenyl-d14	22.31	244	219364	12.24	ng	0.00

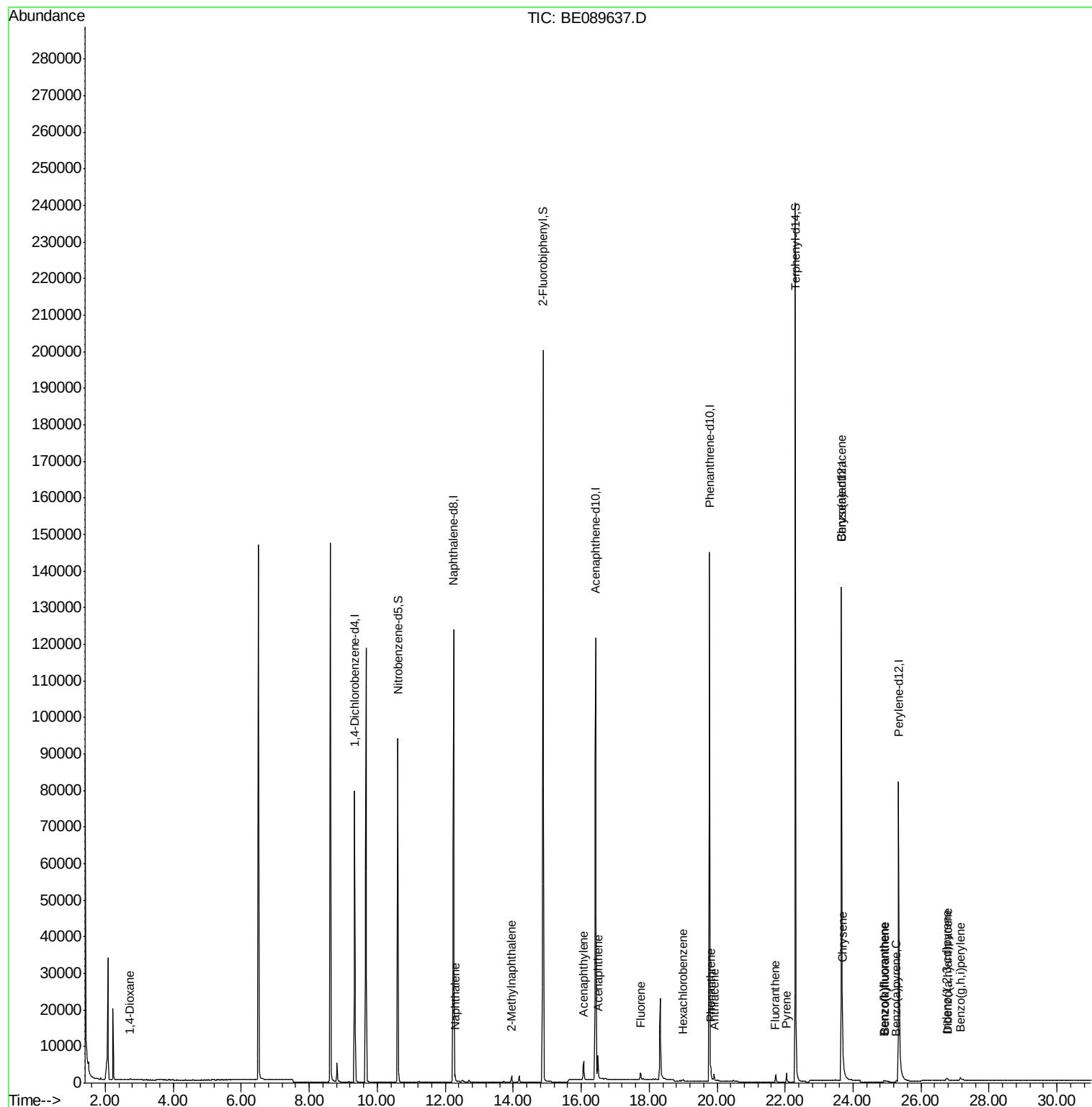
Target Compounds				Ovalue		
2) 1,4-Dioxane	2.74	88	316	0.07	ng	# 77
6) Naphthalene	12.29	128	2315	0.07	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1276	0.06	ng	97
10) Acenaphthylene	16.07	152	7128	0.06	ng	99
11) Acenaphthene	16.49	154	1333	0.07	ng	93
12) Fluorene	17.74	166	1485	0.07	ng	98
14) Hexachlorobenzene	19.00	284	475	0.08	ng	94
15) Pentachlorophenol	19.45	266	26	Below Cal		# 67
16) Phenanthrene	19.82	178	2554	0.07	ng	99
17) Anthracene	19.91	178	1781	0.06	ng	99
18) Fluoranthene	21.72	202	1881	0.06	ng	99
20) Pyrene	22.04	202	1962	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	6639	0.06	ng	# 95
23) Chrysene	23.69	228	10610	0.09	ng	94
24) Indeno(1,2,3-cd)pyrene	26.75	276	1739	0.19	ng	95
26) Benzo(b)fluoranthene	24.91	252	449	0.29	ng	# 76
27) Benzo(k)fluoranthene	24.94	252	1035m	0.04	ng	
28) Benzo(a)pyrene	25.27	252	451	0.26	ng	# 69
29) Dibenzo(a,h)anthracene	26.77	278	347	0.25	ng	# 43
30) Benzo(a,h,i)perylene	27.16	276	2327	0.16	ng	# 65

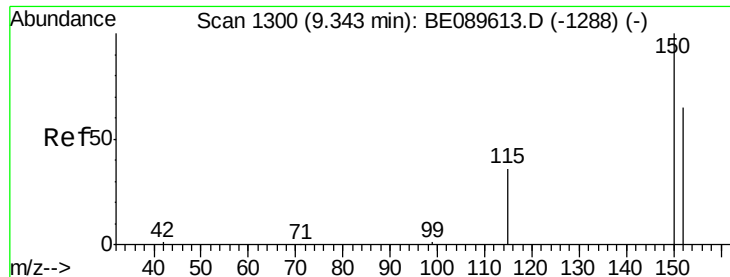
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

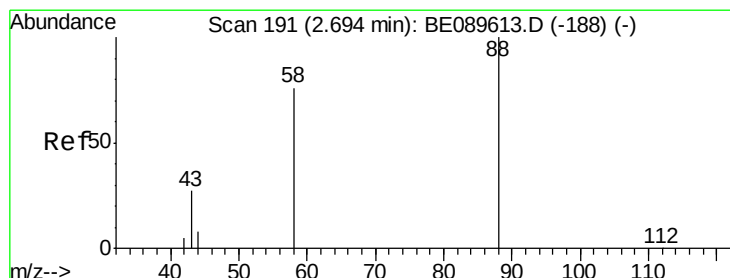
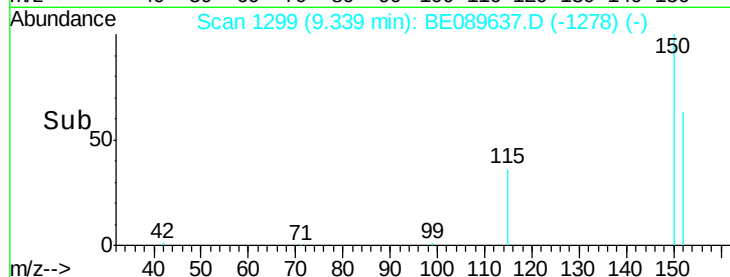
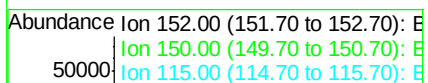
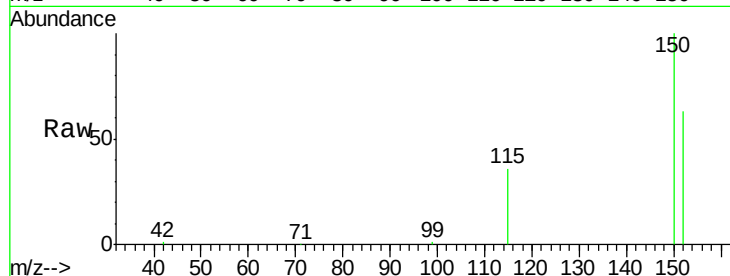
Tot Ion:152 Resp: 35985

Ion Ratio Lower Upper

152 100

150 158.5 122.4 183.6

115 57.0 44.2 66.2



#2

1,4-Dioxane

Concen: 0.07 ng

RT: 2.74 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

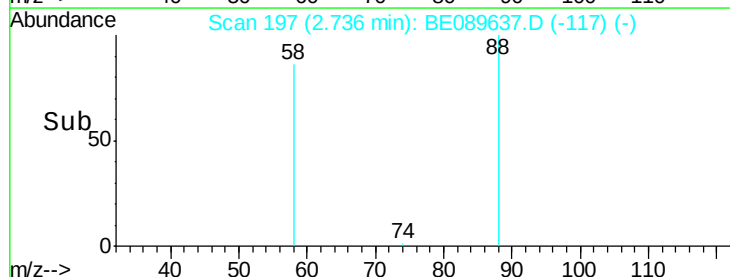
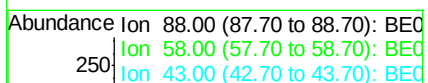
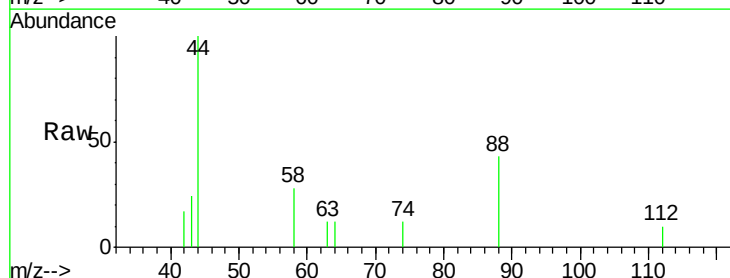
Tgt Ion: 88 Resp: 316

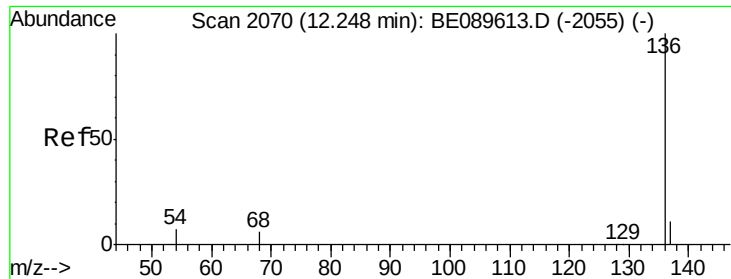
Ion Ratio Lower Upper

88 100

58 57.6 54.6 81.8

43 0.0 20.6 30.8#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2070

Delta R.T. -0.01 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

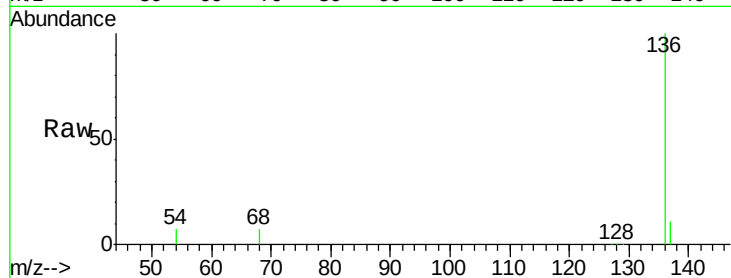
Tot Ion:136 Resp: 144708

Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

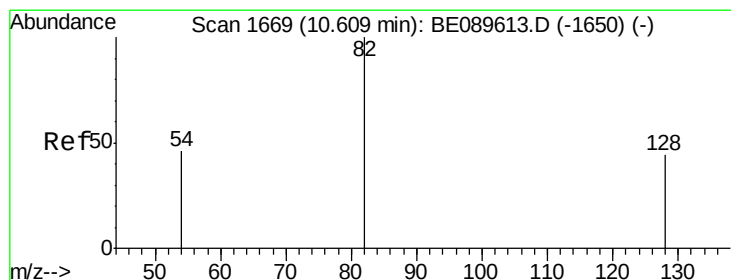
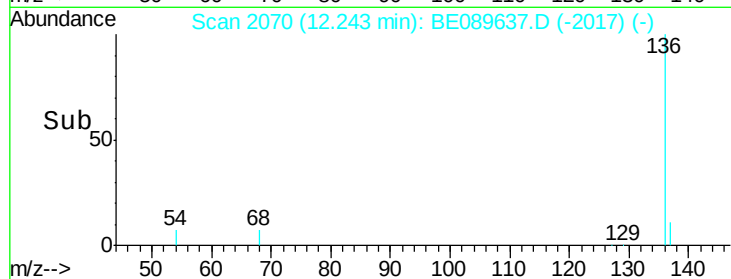
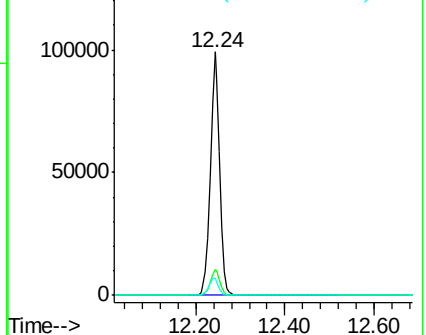
54 7.1 5.3 7.9



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



#5

Nitrobenzene-d5

Concen: 10.59 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

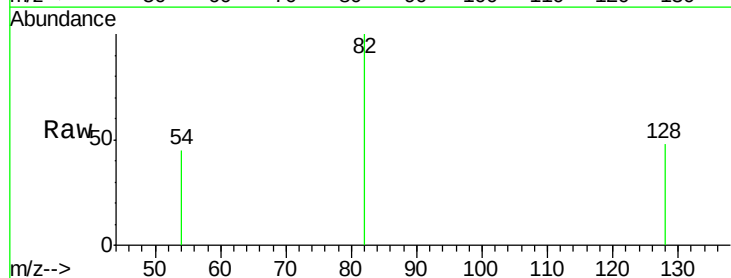
Tgt Ion: 82 Resp: 66608

Ion Ratio Lower Upper

82 100

128 48.3 35.5 53.3

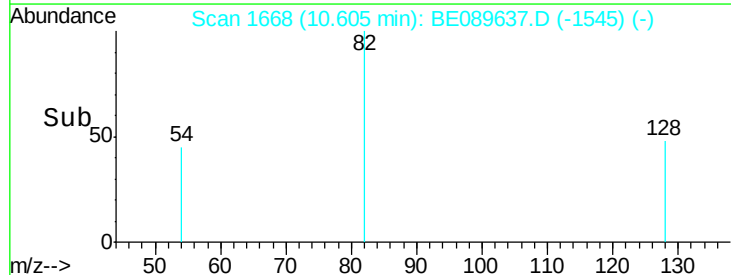
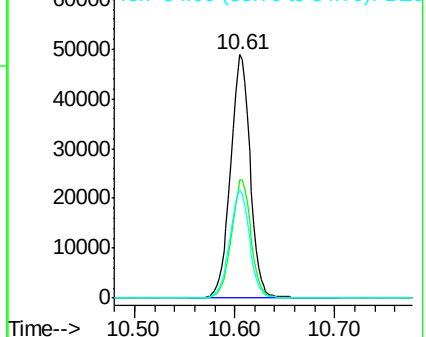
54 44.6 37.5 56.3

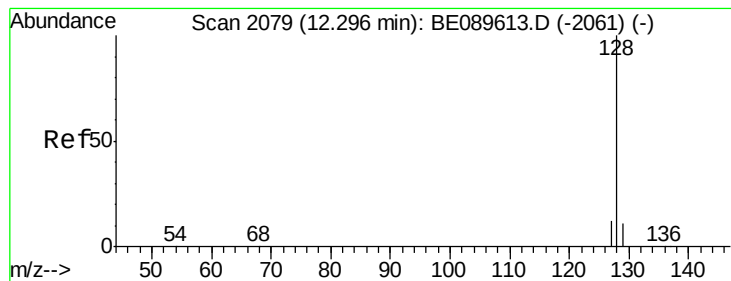


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

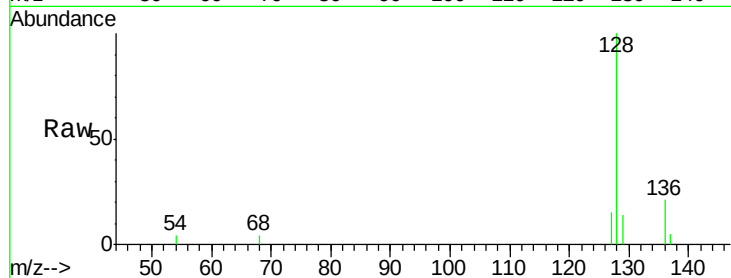
Tot Ion:128 Resp: 2315

Ion Ratio Lower Upper

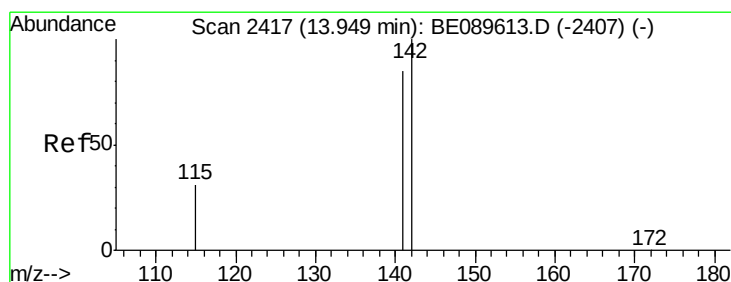
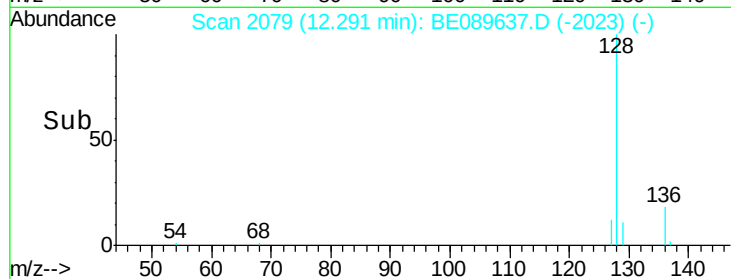
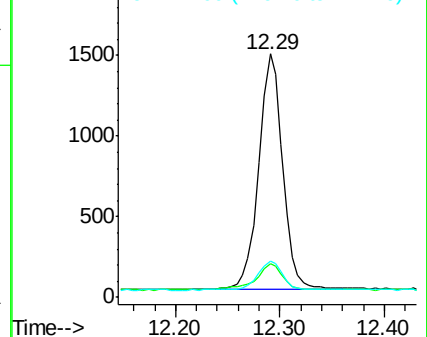
128 100

129 14.1 8.9 13.3#

127 14.7 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: 0.06 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

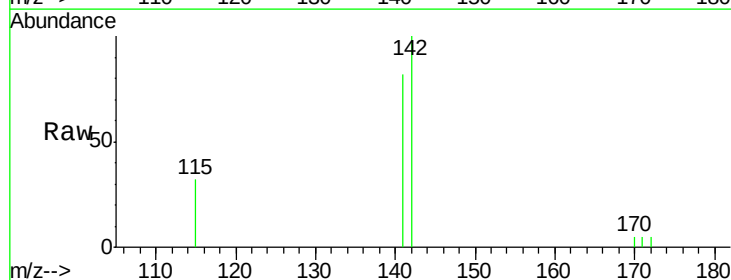
Tgt Ion:142 Resp: 1276

Ion Ratio Lower Upper

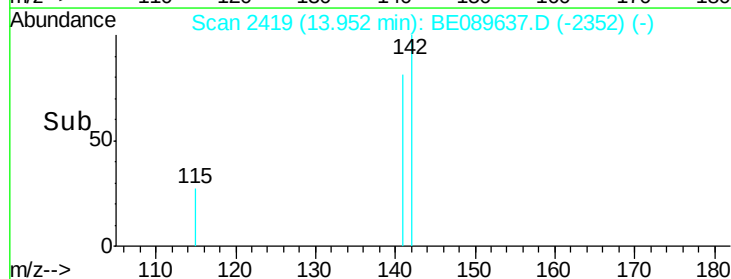
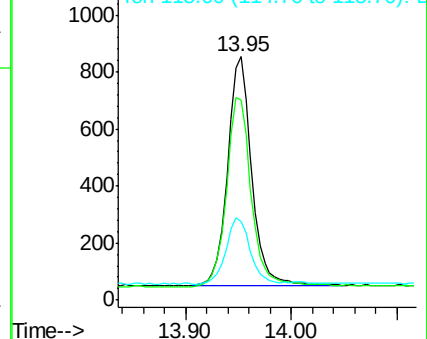
142 100

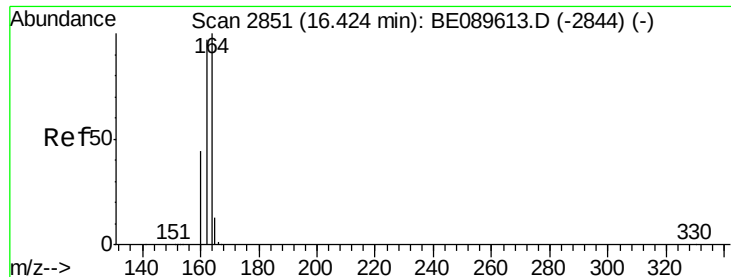
141 82.4 68.3 102.5

115 32.4 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: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

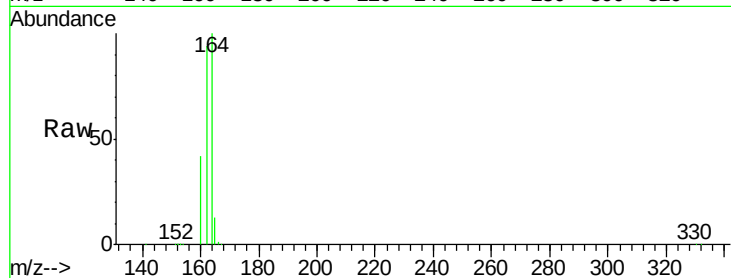
Tot Ion:164 Resp: 73986

Ion Ratio Lower Upper

164 100

162 94.0 77.5 116.3

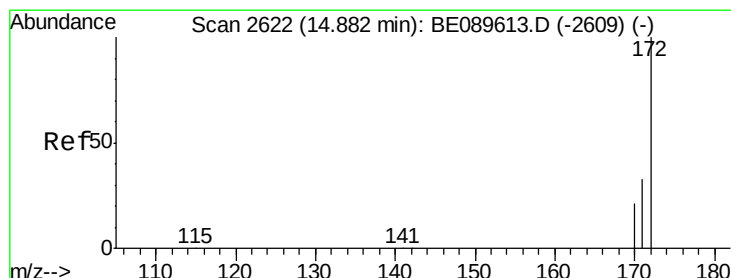
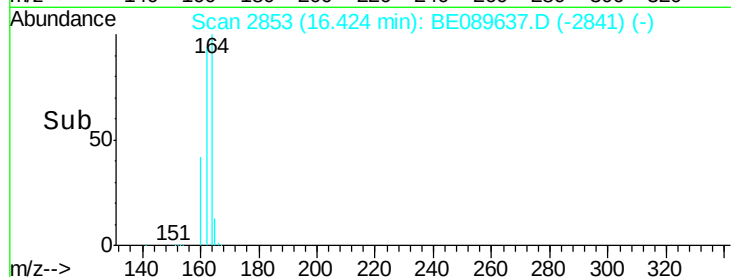
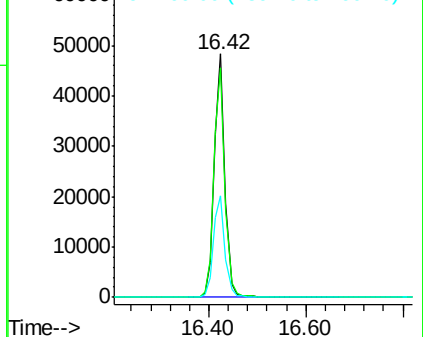
160 41.6 35.5 53.3



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: 9.12 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

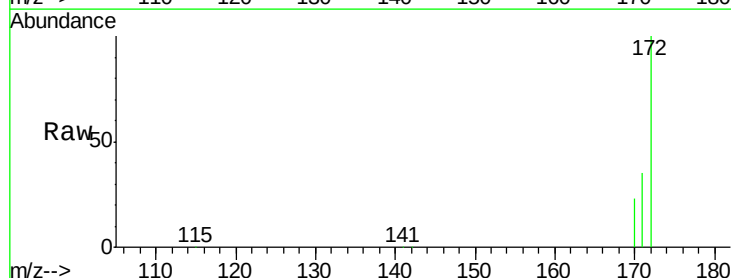
Tgt Ion:172 Resp: 180809

Ion Ratio Lower Upper

172 100

171 34.8 26.9 40.3

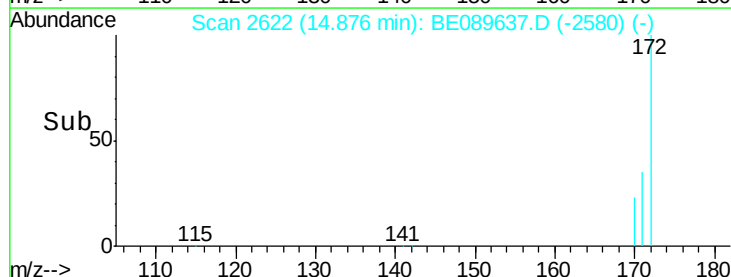
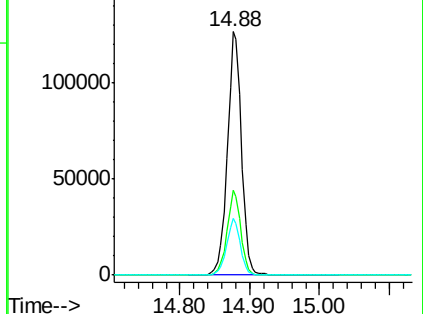
170 23.1 17.4 26.0

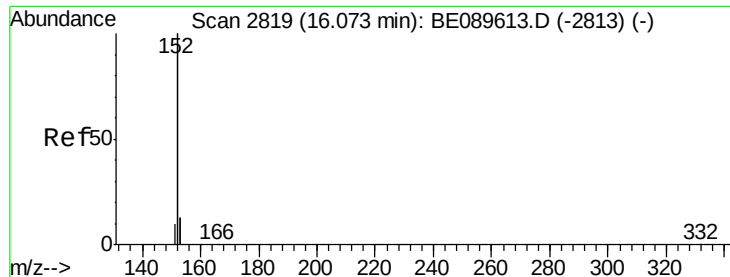


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthylene

Concen: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

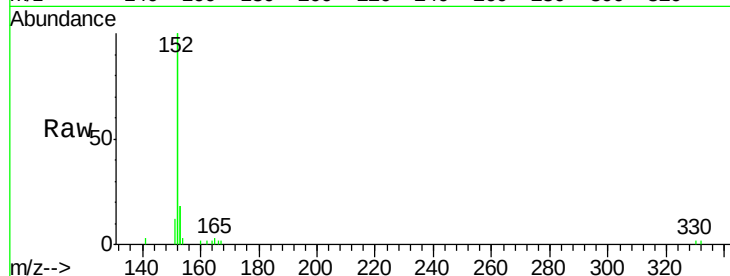
Tot Ion:152 Resp: 7128

Ion Ratio Lower Upper

152 100

151 5.1 3.9 5.9

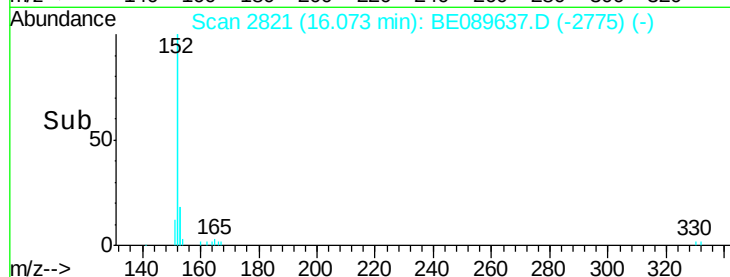
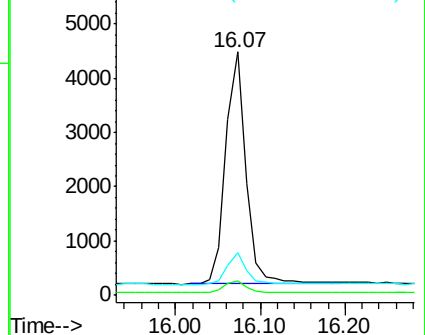
153 13.4 10.5 15.7



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: 0.07 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

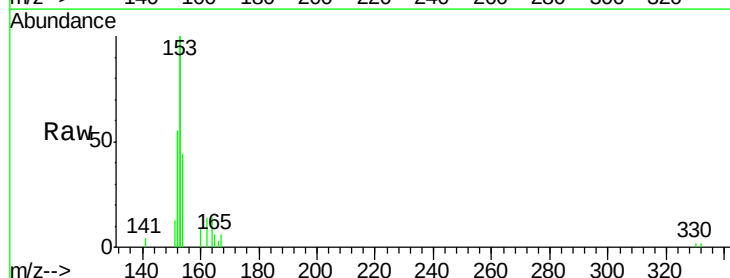
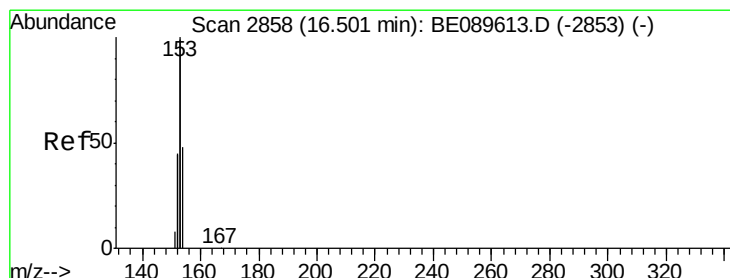
Tgt Ion:154 Resp: 1333

Ion Ratio Lower Upper

154 100

153 442.2 348.9 523.3

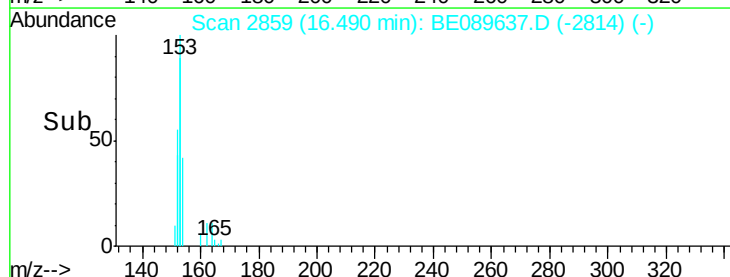
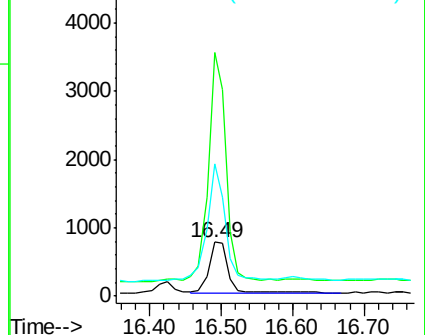
152 236.4 166.6 249.8

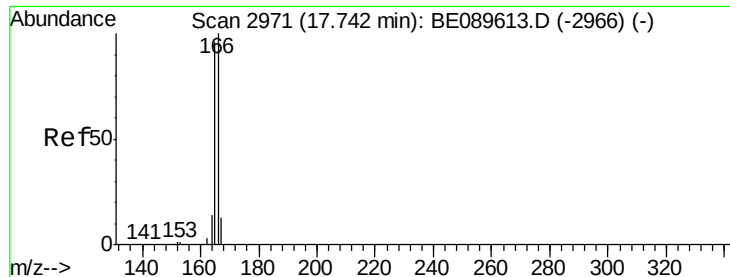


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

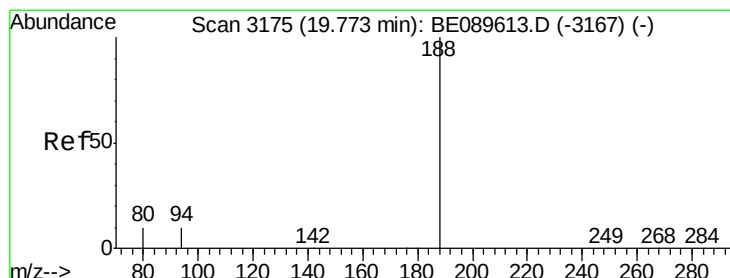
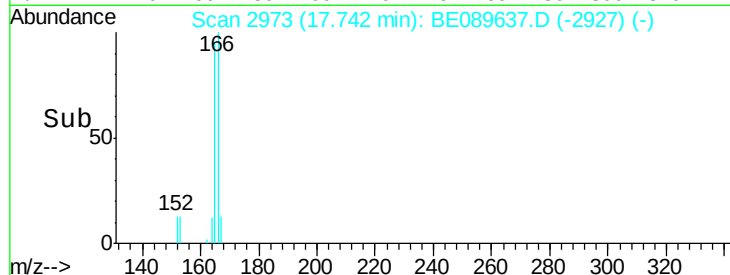
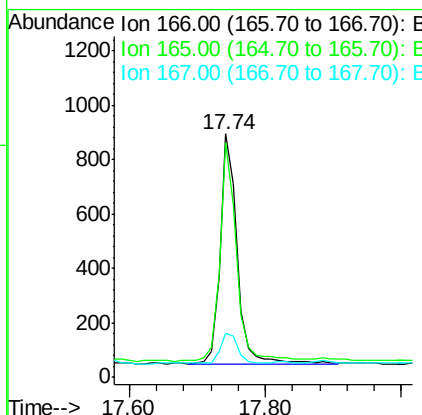
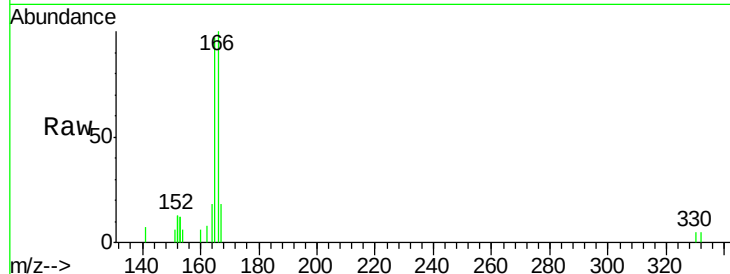




#12
 Fluorene
 Concen: 0.07 ng
 RT: 17.74 min Scan# 2973
 Delta R.T. 0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 14:36

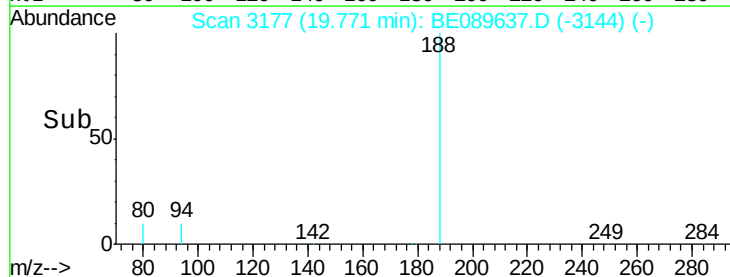
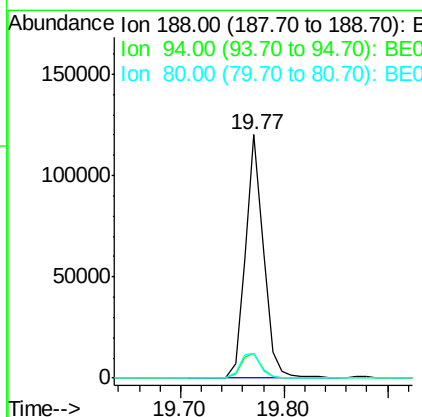
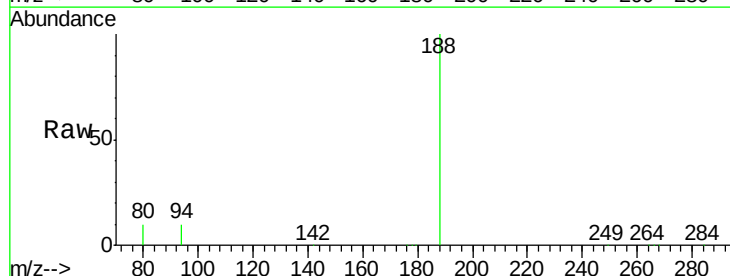
Instrument :
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 MDL-06-S

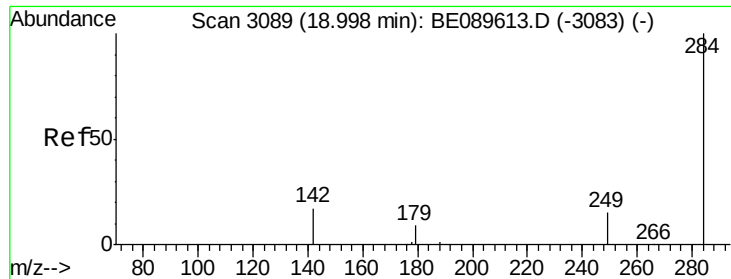
Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	92.4	74.7	112.1	
167	15.5	10.5	15.7	



#13
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.77 min Scan# 3177
 Delta R.T. -0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 14:36

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	10.1	8.2	12.4	
80	9.9	8.1	12.1	

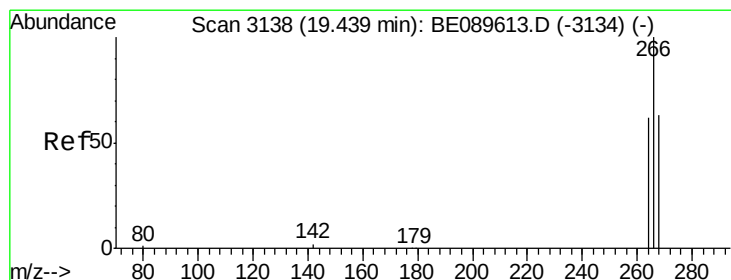
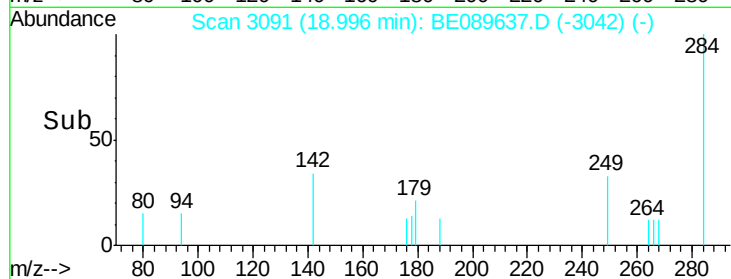
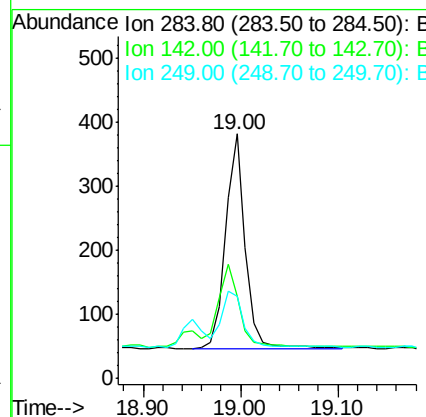
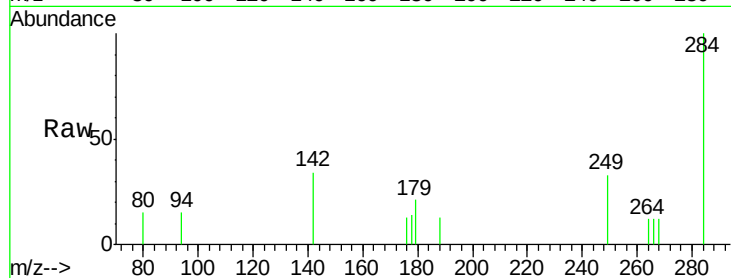




#14
Hexachlorobenzene
Concen: 0.08 ng
RT: 19.00 min Scan# 3091
Delta R.T. -0.00 min
Lab File: BE089637.D
Acq: 19 Feb 2015 14:36

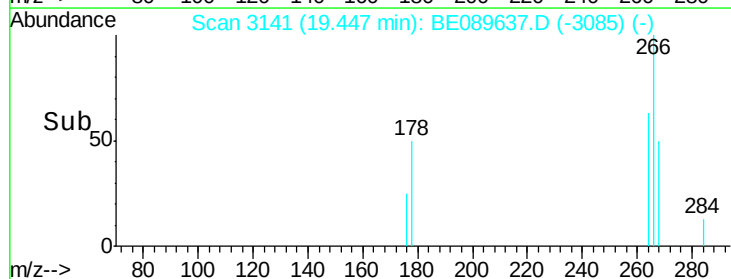
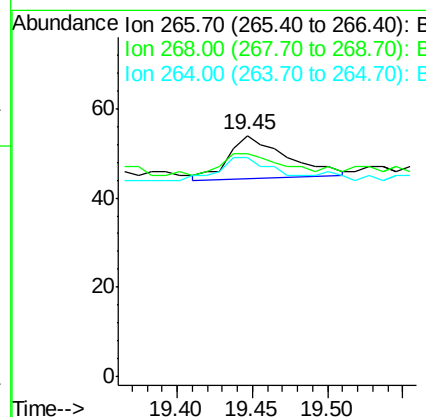
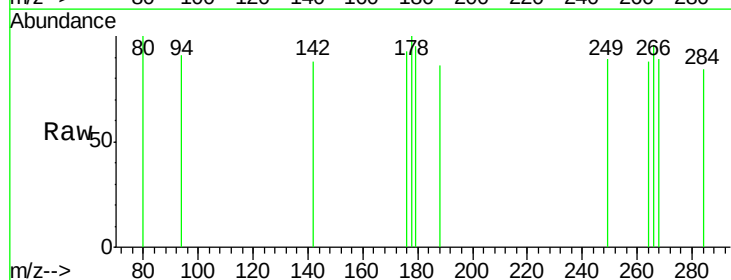
Instrument :
BNA_E
ClientSampleId :
MDL-06-S

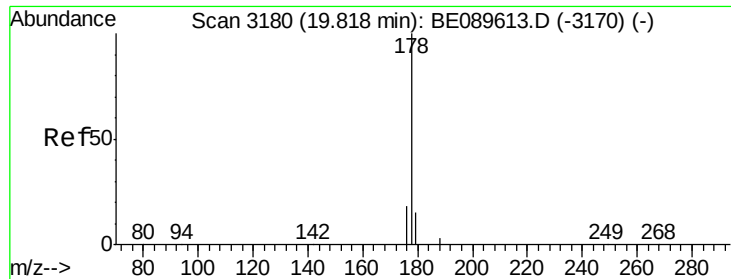
Tot Ion:284 Resp: 475
Ion Ratio Lower Upper
284 100
142 46.7 32.3 48.5
249 27.8 22.3 33.5



#15
Pentachlorophenol
Concen: Below Cal
RT: 19.45 min Scan# 3141
Delta R.T. 0.01 min
Lab File: BE089637.D
Acq: 19 Feb 2015 14:36

Tgt Ion:266 Resp: 26
Ion Ratio Lower Upper
266 100
268 92.6 52.6 79.0#
264 90.7 51.8 77.8#





#16

Phenanthrene

Concen: 0.07 ng

RT: 19.82 min Scan# 3182

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

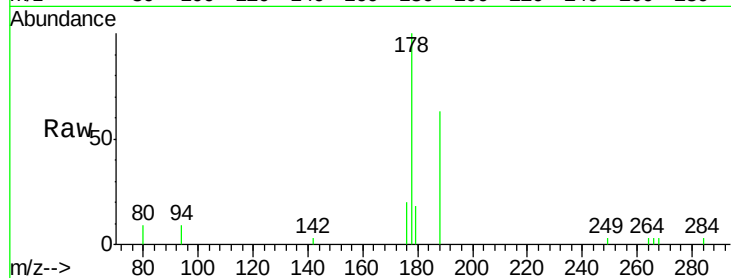
Tot Ion:178 Resp: 2554

Ion Ratio Lower Upper

178 100

176 18.1 15.1 22.7

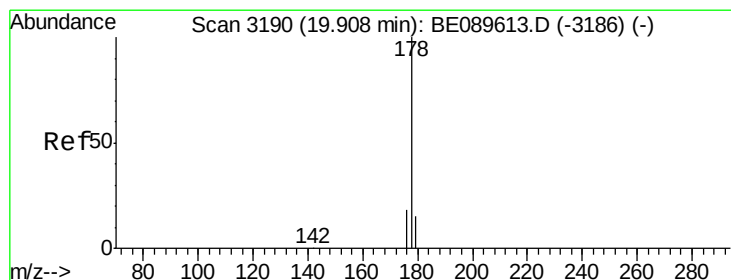
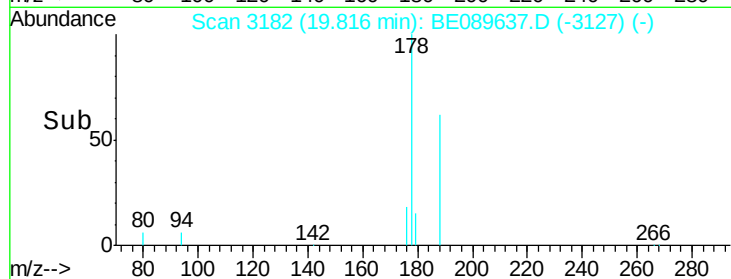
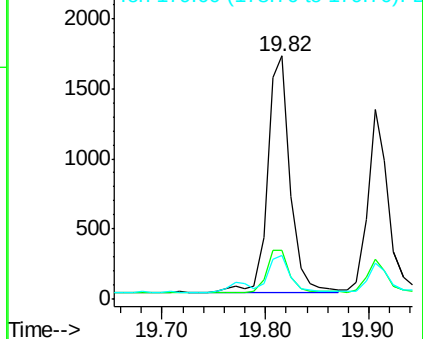
179 15.1 12.3 18.5



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



#17

Anthracene

Concen: 0.06 ng

RT: 19.91 min Scan# 3192

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

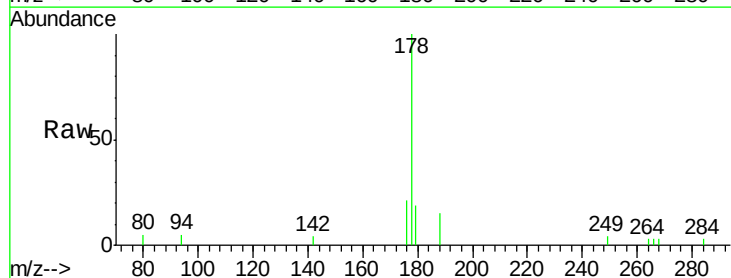
Tgt Ion:178 Resp: 1781

Ion Ratio Lower Upper

178 100

176 17.7 14.6 22.0

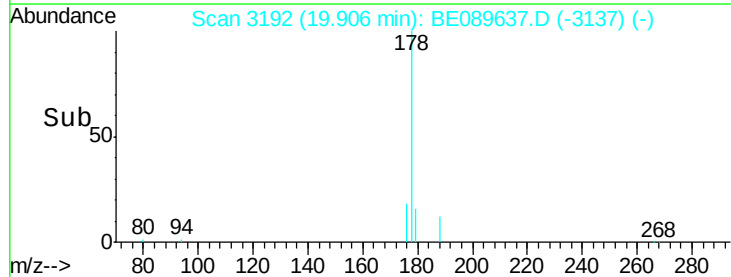
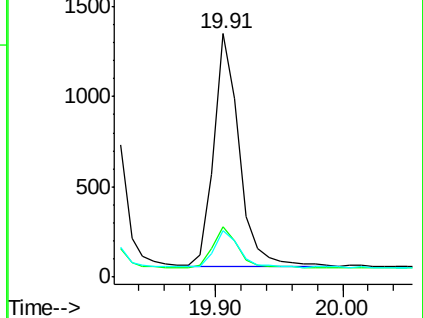
179 16.0 12.3 18.5

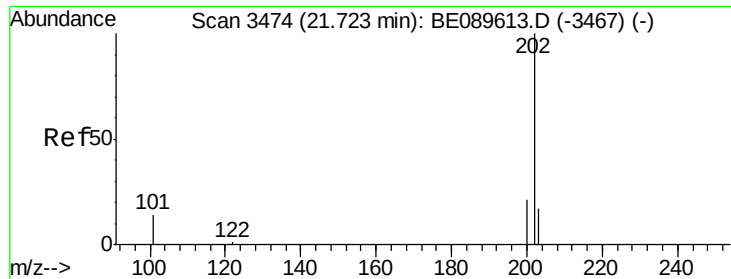


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

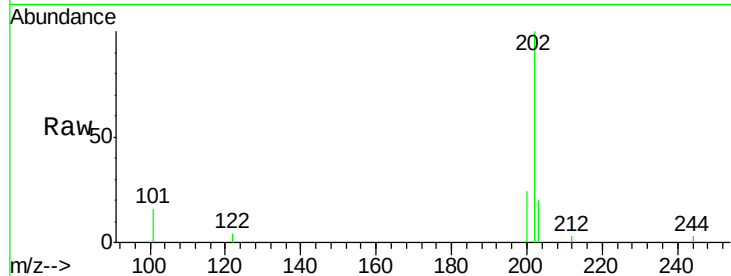




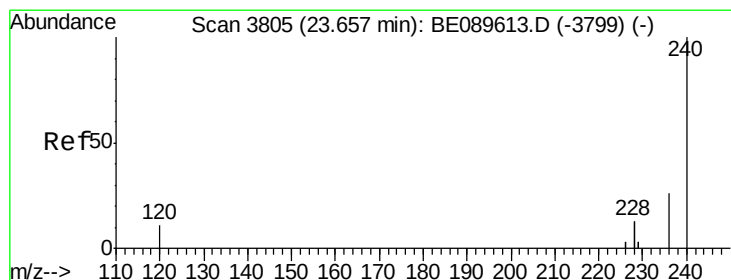
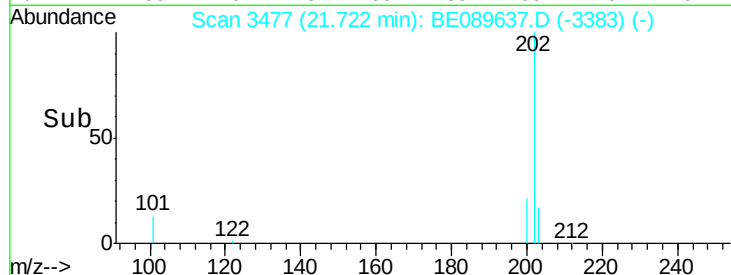
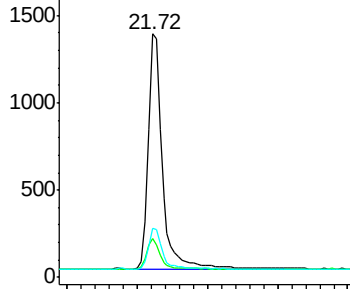
#18
Fluoranthene
Concen: 0.06 ng
RT: 21.72 min Scan# 3477
Delta R.T. -0.00 min
Lab File: BE089637.D
Acq: 19 Feb 2015 14:36

Instrument :
BNA_E
ClientSampleId :
MDL-06-S

Tot Ion:202 Resp: 1881
Ion Ratio Lower Upper
202 100
101 12.8 10.4 15.6
203 16.8 13.9 20.9

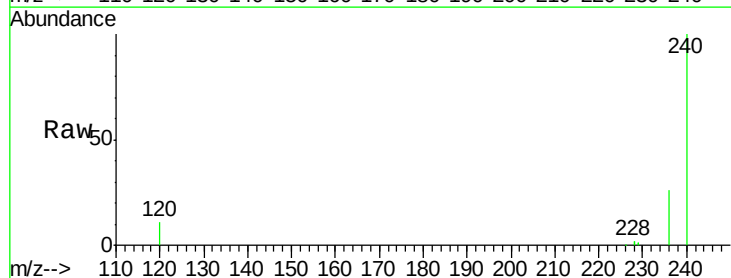


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

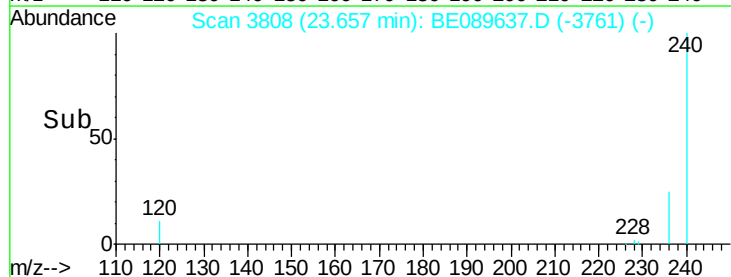
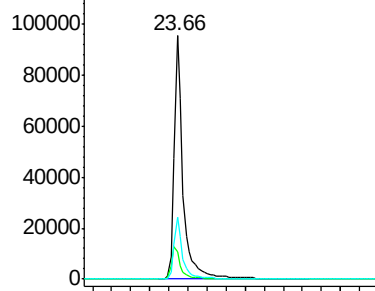


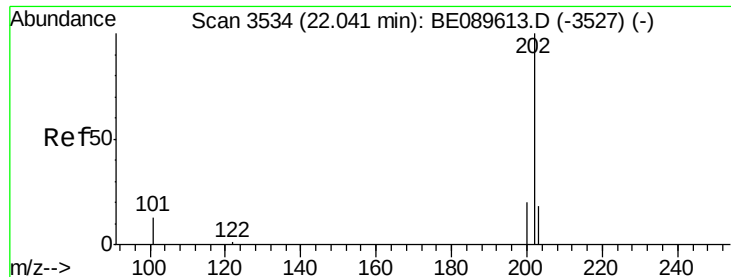
#19
Chrysene-d12
Concen: 5.00 ng
RT: 23.66 min Scan# 3808
Delta R.T. -0.00 min
Lab File: BE089637.D
Acq: 19 Feb 2015 14:36

Tgt Ion:240 Resp: 124621
Ion Ratio Lower Upper
240 100
120 11.0 9.0 13.4
236 25.5 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

Pvrene

Concen: 0.06 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

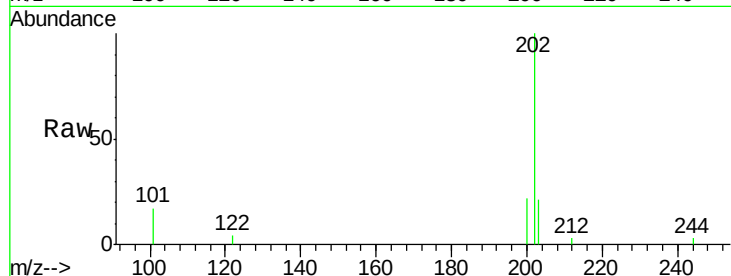
Tot Ion:202 Resp: 1962

Ion Ratio Lower Upper

202 100

200 19.7 16.3 24.5

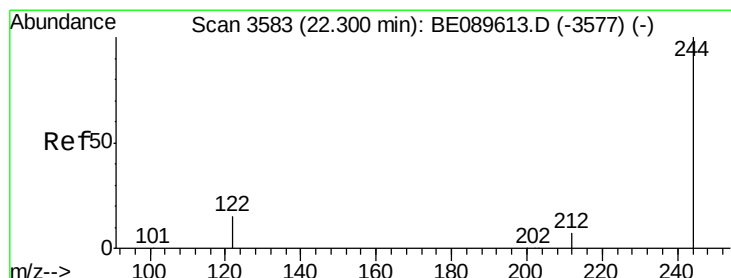
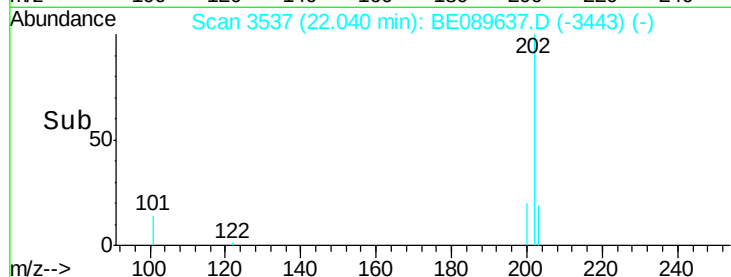
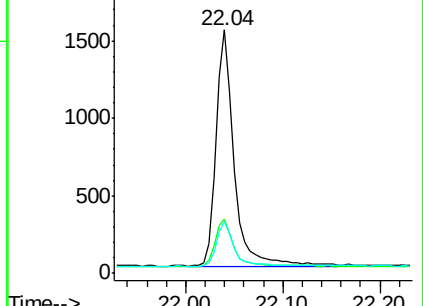
203 17.8 13.8 20.8



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: 12.24 ng

RT: 22.31 min Scan# 3587

Delta R.T. 0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

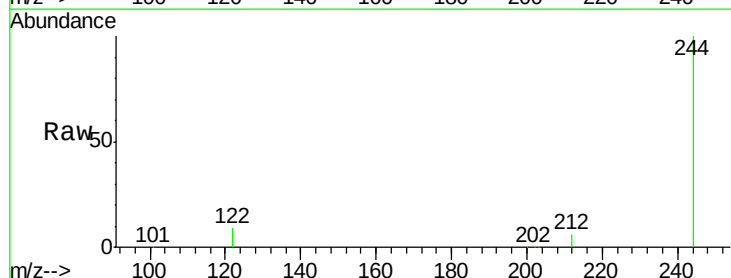
Tgt Ion:244 Resp: 219364

Ion Ratio Lower Upper

244 100

212 6.3 5.8 8.8

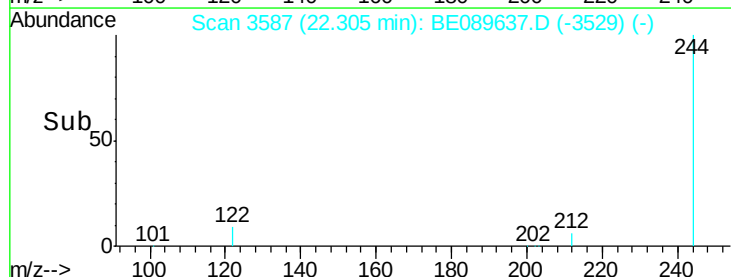
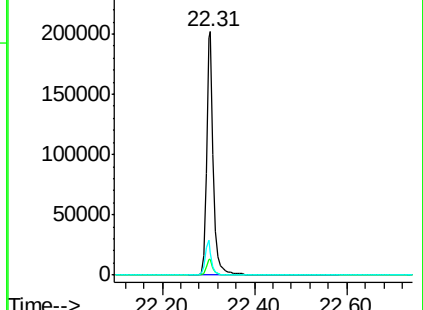
122 9.0 11.8 17.8#

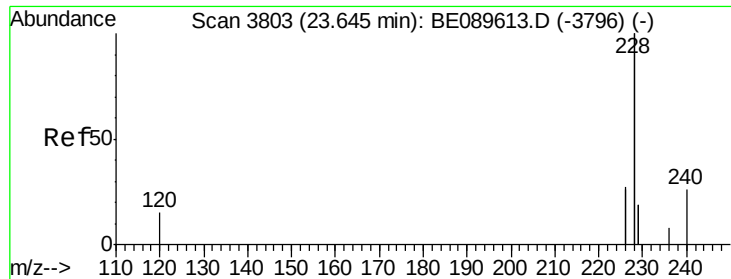


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

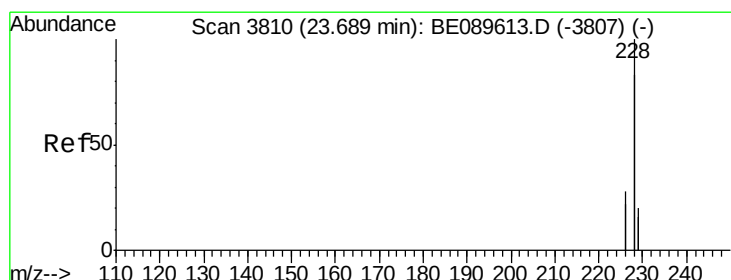
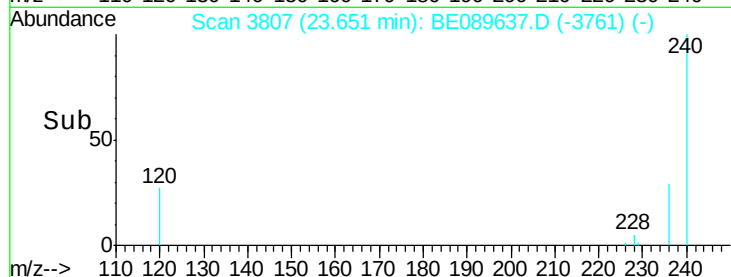
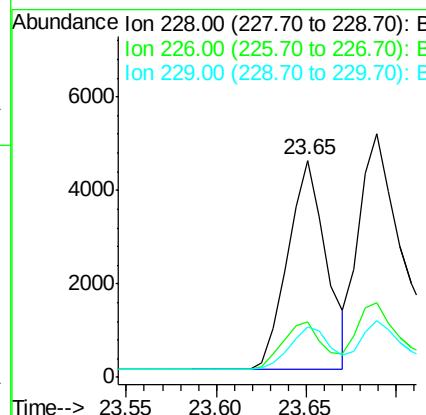
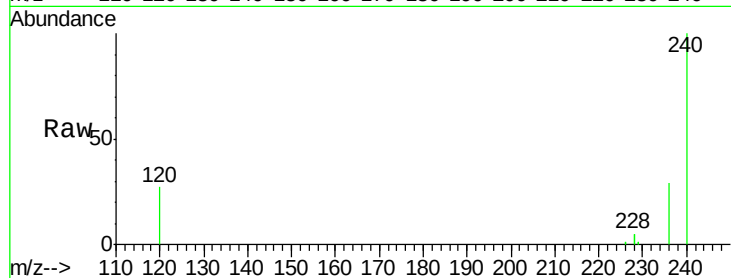




#22
Benzo(a)anthracene
Concen: 0.06 ng
RT: 23.65 min Scan# 3807
Delta R.T. 0.01 min
Lab File: BE089637.D
Acq: 19 Feb 2015 14:36

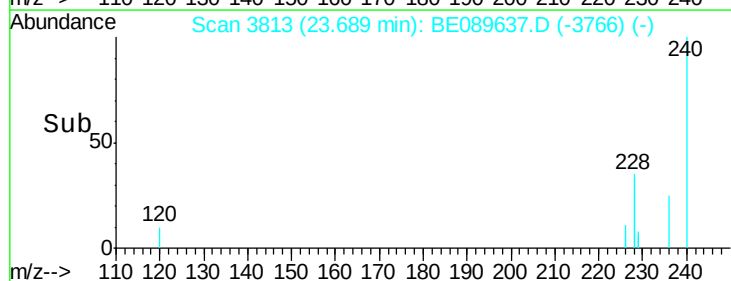
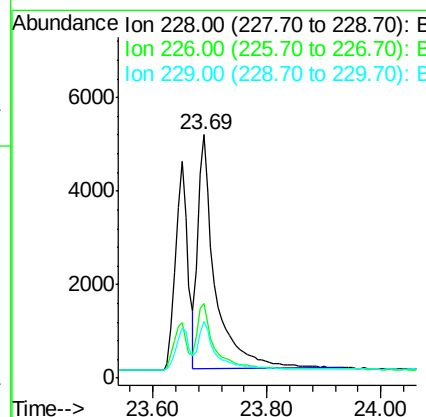
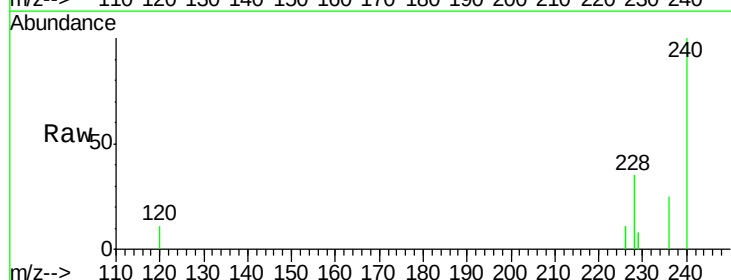
Instrument :
BNA_E
ClientSampleId :
MDL-06-S

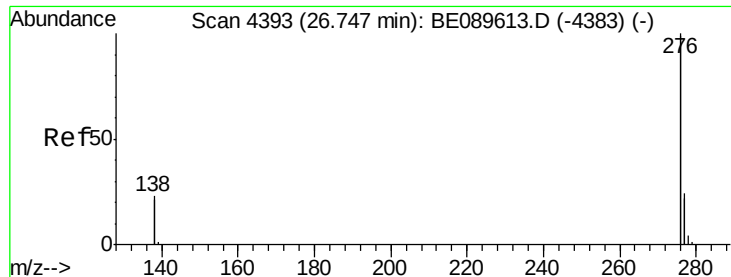
Tot Ion:228 Resp: 6639
Ion Ratio Lower Upper
228 100
226 25.4 21.2 31.8
229 23.2 15.2 22.8#



#23
Chrysene
Concen: 0.09 ng
RT: 23.69 min Scan# 3813
Delta R.T. -0.00 min
Lab File: BE089637.D
Acq: 19 Feb 2015 14:36

Tgt Ion:228 Resp: 10610
Ion Ratio Lower Upper
228 100
226 30.6 22.2 33.4
229 23.2 16.0 24.0

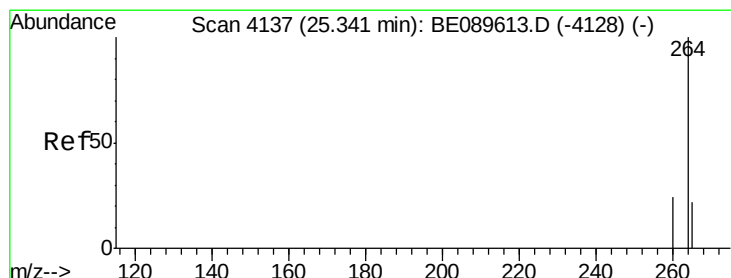
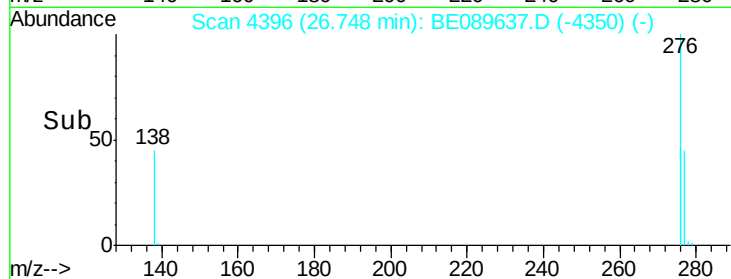
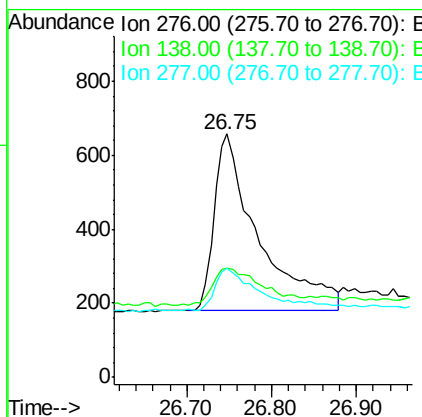
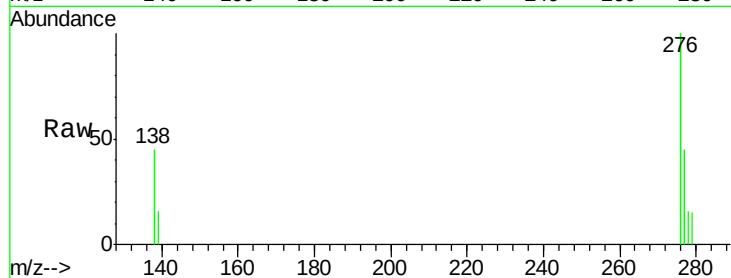




#24
 Indeno(1,2,3-cd)pyrene
 Concen: 0.19 ng
 RT: 26.75 min Scan# 4396
 Delta R.T. 0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 14:36

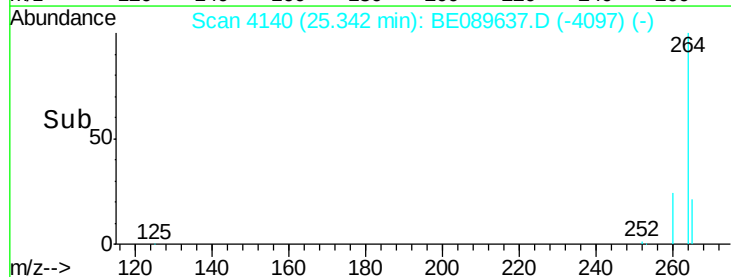
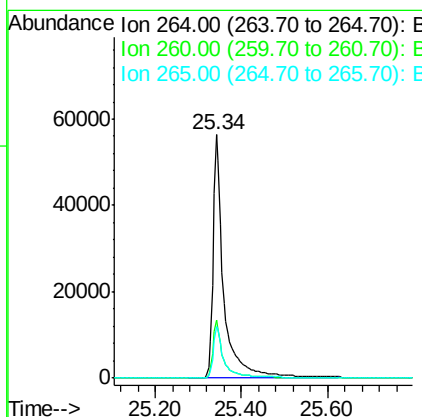
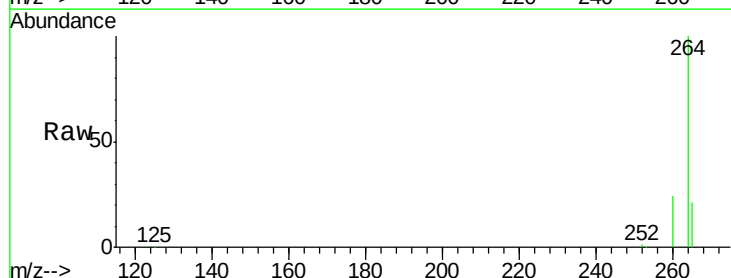
Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-S

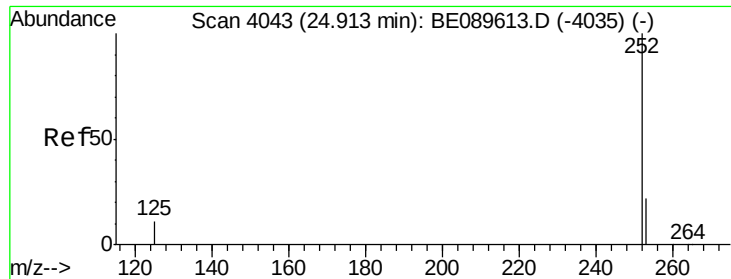
Tot Ion:276 Resp: 1739
 Ion Ratio Lower Upper
 276 100
 138 24.3 21.4 32.2
 277 27.2 19.9 29.9



#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 14:36

Tgt Ion:264 Resp: 98499
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.6
 265 21.3 17.4 26.0





#26

Benzo(b)fluoranthene

Concen: 0.29 ng

RT: 24.91 min Scan# 4045

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

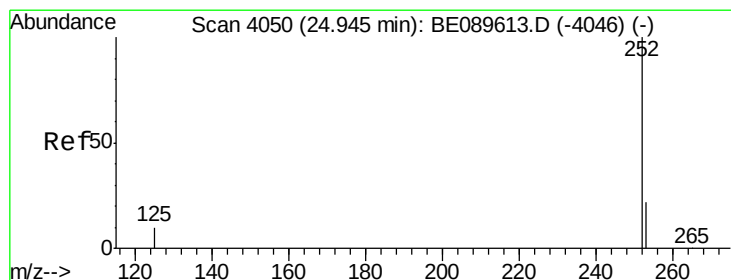
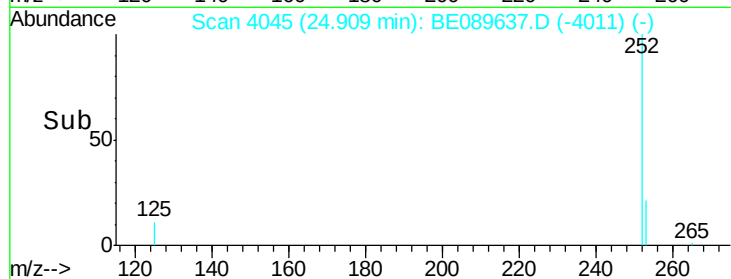
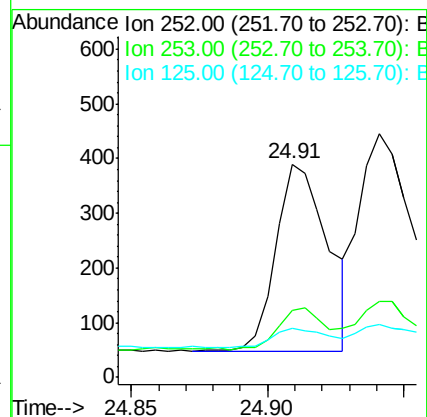
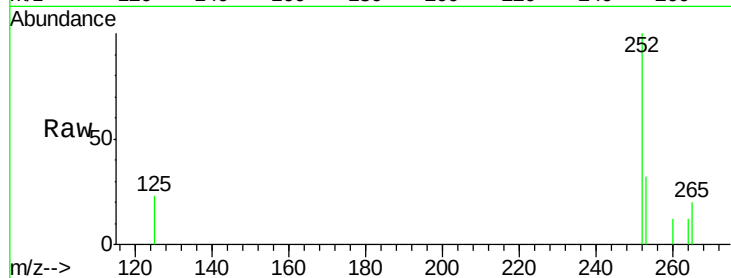
Tot Ion:252 Resp: 449

Ion Ratio Lower Upper

252 100

253 31.5 17.6 26.4#

125 23.3 8.8 13.2#



#27

Benzo(k)fluoranthene

Concen: 0.04 ng m

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

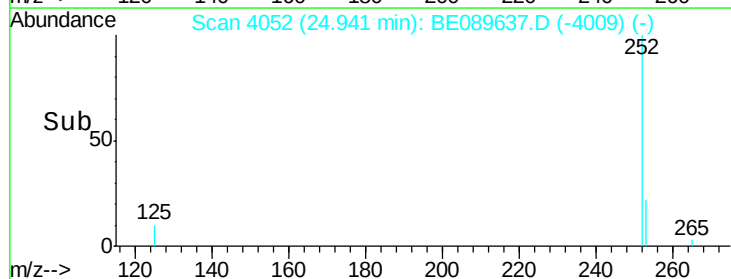
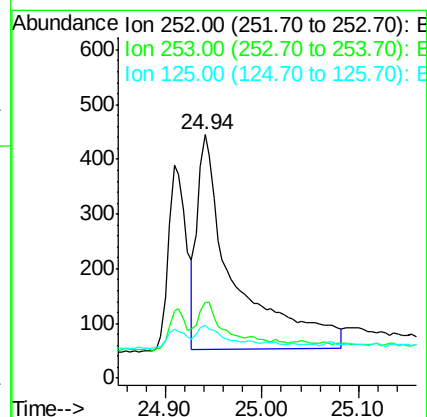
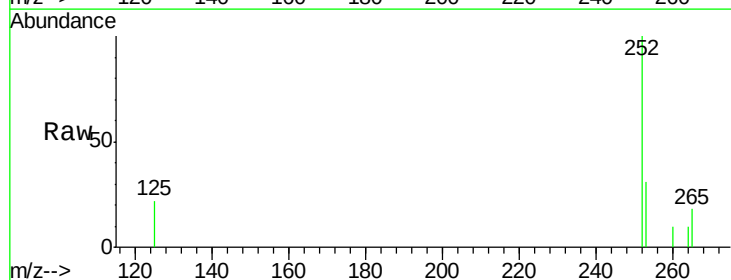
Tgt Ion:252 Resp: 1035

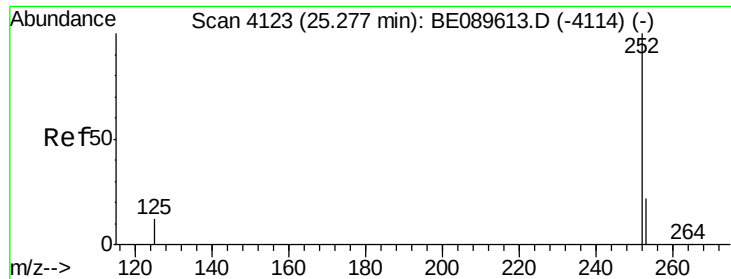
Ion Ratio Lower Upper

252 100

253 31.0 17.7 26.5#

125 21.6 8.8 13.2#





#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

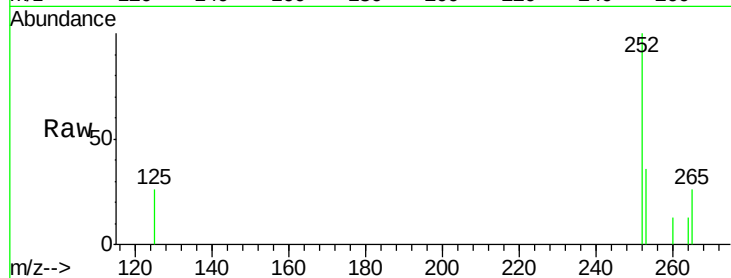
Tot Ion:252 Resp: 451

Ion Ratio Lower Upper

252 100

253 36.2 18.1 27.1#

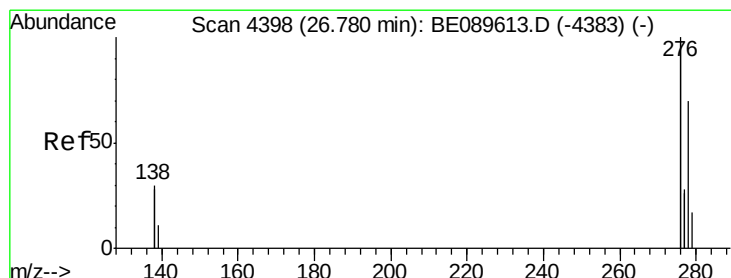
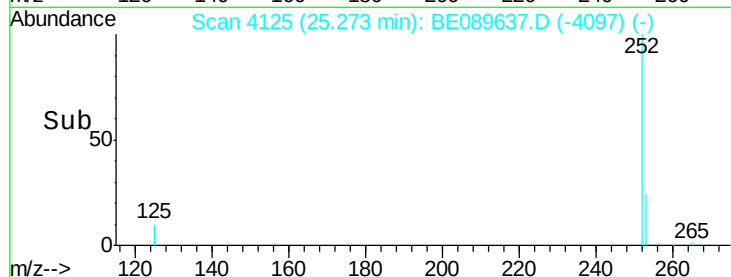
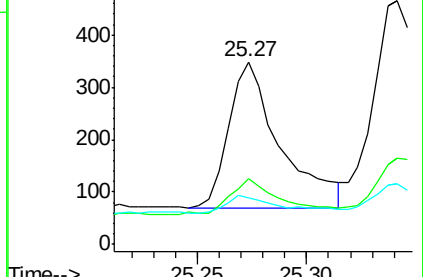
125 25.6 9.6 14.4#



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



#29

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

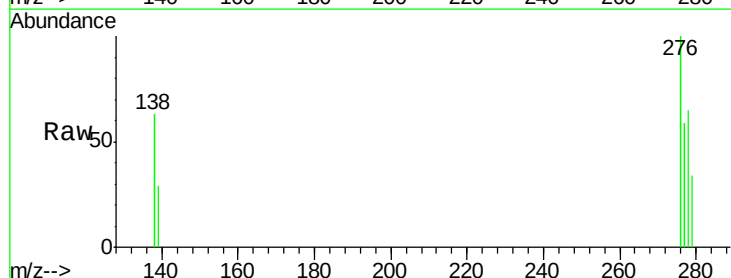
Tgt Ion:278 Resp: 347

Ion Ratio Lower Upper

278 100

139 43.7 13.7 20.5#

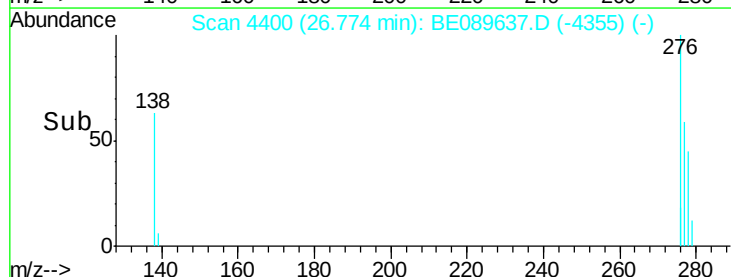
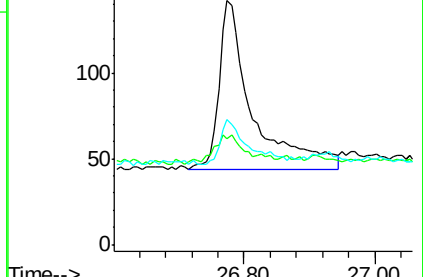
279 51.4 19.7 29.5#

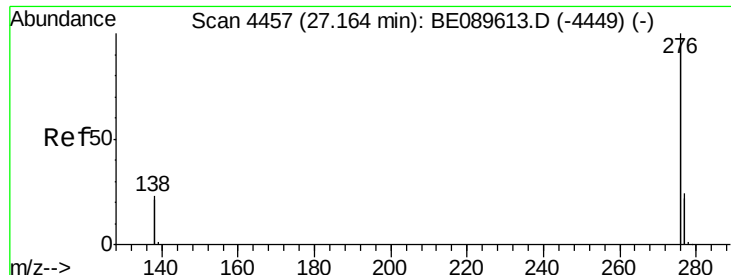


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Benzo(a,h,i)perylene

Concen: 0.16 ng

RT: 27.16 min Scan# 4459

Delta R.T. -0.01 min

Lab File: BE089637.D

Acq: 19 Feb 2015 14:36

Instrument :

BNA_E

ClientSampleId :

MDL-06-S

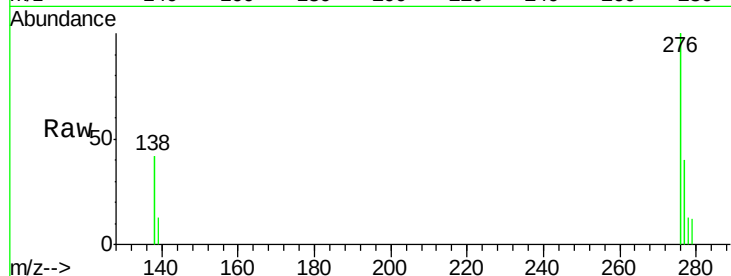
Tot Ion: 276 Resp: 2327

Ion Ratio Lower Upper

276 100

277 40.0 19.1 28.7#

138 41.5 18.7 28.1#



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

