

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022315\
 Data File : BE089659.D
 Acq On : 24 Feb 2015 3:22
 Operator : TP/JJ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 04:12:26 2015

Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE022315.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Feb 24 03:46:57 2015

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	46292	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	193609	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	87546	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	158237	5.00	ng	0.00
19) Chrysene-d12	23.66	240	119793	5.00	ng	0.00
25) Perylene-d12	25.34	264	92488	5.00	ng	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	10.60	82	102504	8.77	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	167891	8.51	ng	0.00
21) Terphenyl-d14	22.30	244	150112	8.77	ng	0.00

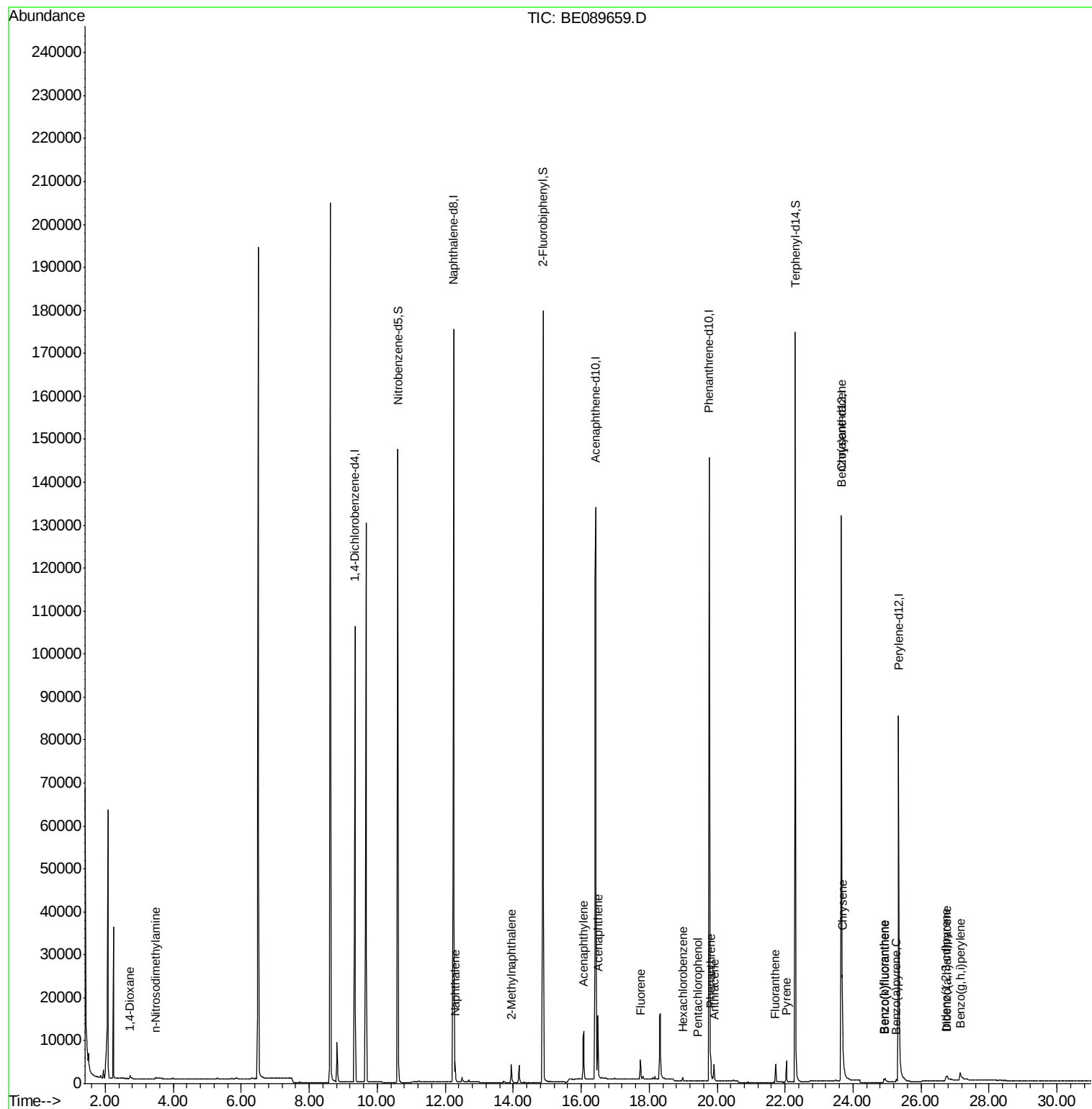
Target Compounds

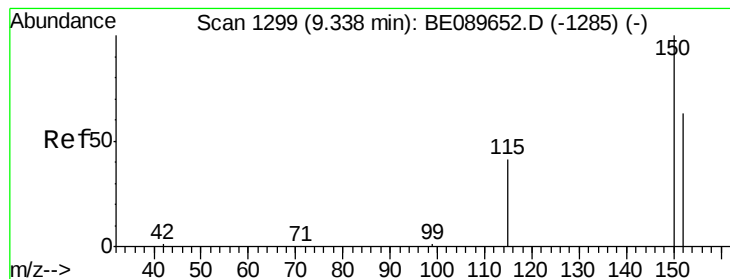
						Ovalue
2) 1,4-Dioxane	2.73	88	858	0.14	ng	# 80
3) n-Nitrosodimethylamine	3.48	42	567	0.12	ng	# 50
6) Naphthalene	12.29	128	5660	0.14	ng	97
7) 2-Methylnaphthalene	13.95	142	2935	0.13	ng	98
10) Acenaphthylene	16.07	152	16273	0.13	ng	99
11) Acenaphthene	16.49	154	2817	0.13	ng	91
12) Fluorene	17.74	166	3234	0.14	ng	99
14) Hexachlorobenzene	18.99	284	647	0.15	ng	96
15) Pentachlorophenol	19.44	266	32	0.22	ng	# 71
16) Phenanthrene	19.81	178	5101	0.15	ng	97
17) Anthracene	19.91	178	3961	0.13	ng	100
18) Fluoranthene	21.72	202	3663	0.13	ng	99
20) Pyrene	22.04	202	3955	0.13	ng	99
22) Benzo(a)anthracene	23.64	228	11404	0.14	ng	98
23) Chrysene	23.68	228	18608	0.16	ng	96
24) Indeno(1,2,3-cd)pyrene	26.74	276	3039	0.39	ng	# 80
26) Benzo(b)fluoranthene	24.91	252	758	0.42	ng	# 87
27) Benzo(k)fluoranthene	24.94	252	2599m	0.13	ng	
28) Benzo(a)pyrene	25.27	252	887	0.37	ng	# 83
29) Dibenzo(a,h)anthracene	26.77	278	506	0.40	ng	# 61
30) Benzo(g,h,i)perylene	27.15	276	4967	0.29	ng	# 80

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

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QLast Update : Tue Feb 24 03:46:57 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

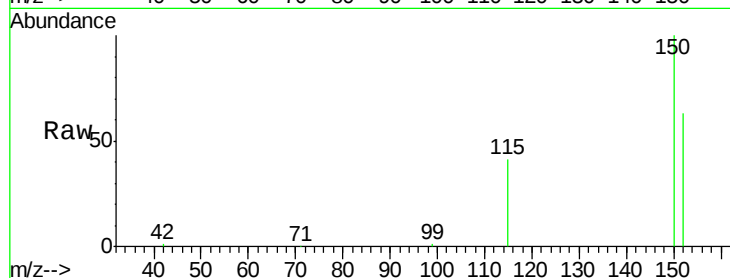
Tot Ion: 152 Resp: 46292

Ion Ratio Lower Upper

152 100

150 158.3 127.0 190.6

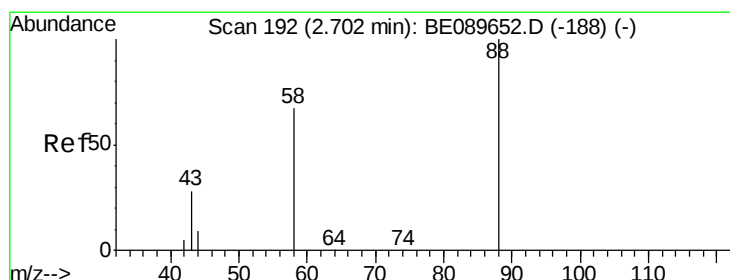
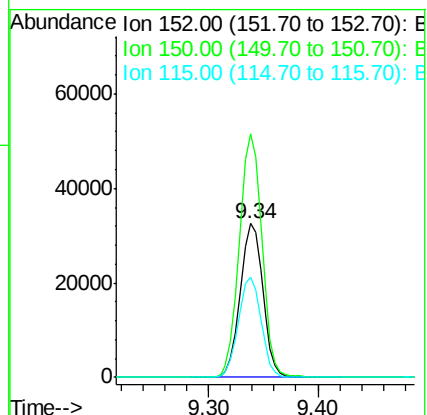
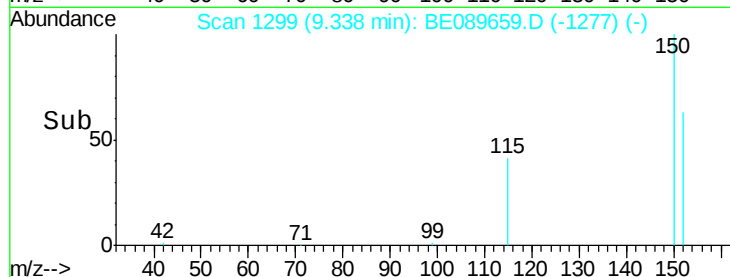
115 64.8 52.4 78.6



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

1,4-Dioxane

Concen: 0.14 ng

RT: 2.73 min Scan# 196

Delta R.T. 0.02 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

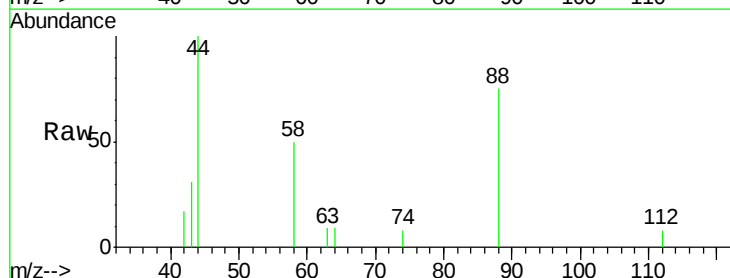
Tgt Ion: 88 Resp: 858

Ion Ratio Lower Upper

88 100

58 73.9 61.8 92.6

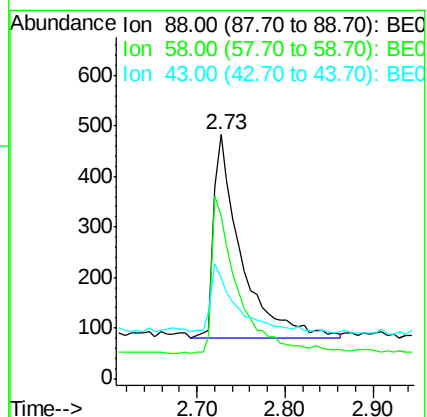
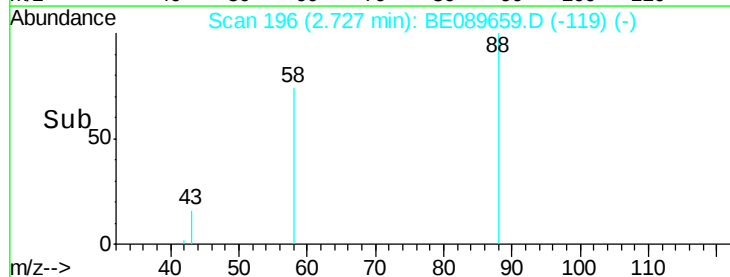
43 0.0 26.4 39.6

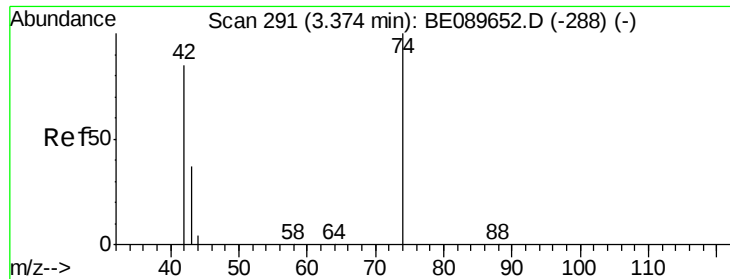


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

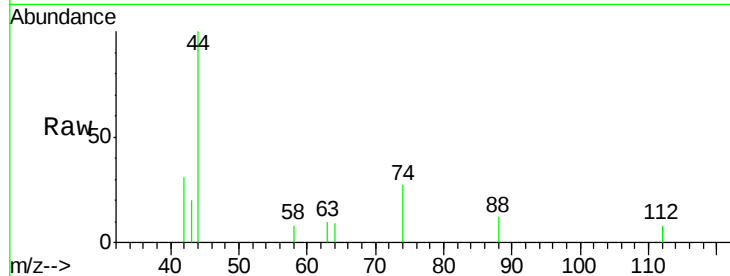




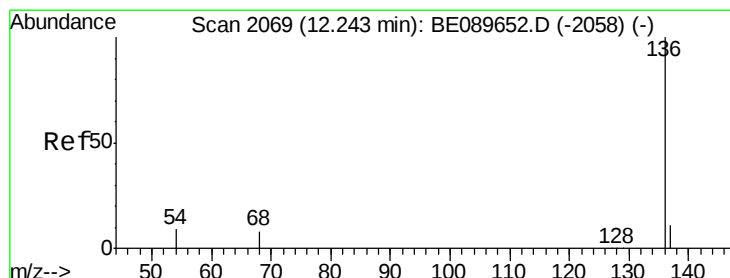
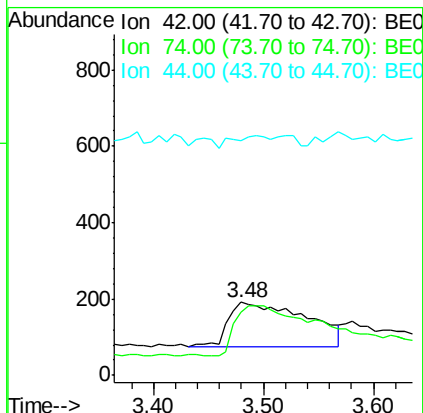
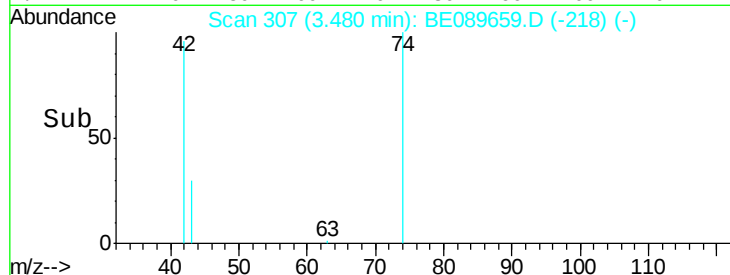
#3

n-Nitrosodimethylamine
 Concen: 0.12 ng
 RT: 3.48 min Scan# 307
 Delta R.T. 0.11 min
 Lab File: BE089659.D
 Acq: 24 Feb 2015 3:22

Tot Ion	Ratio	Lower	Upper
42	100		
74	171.4	92.5	138.7#
44	12.5	4.9	7.3#



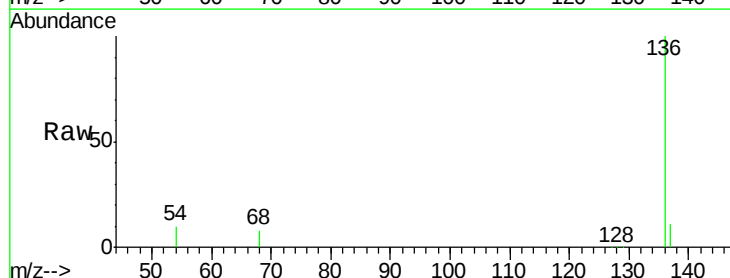
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



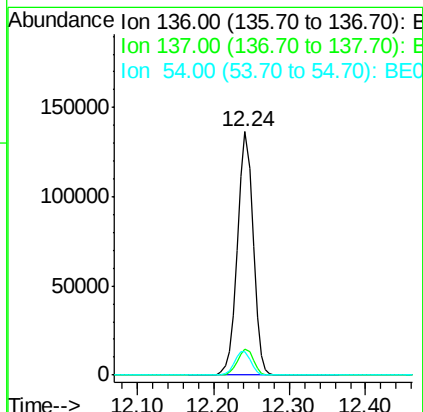
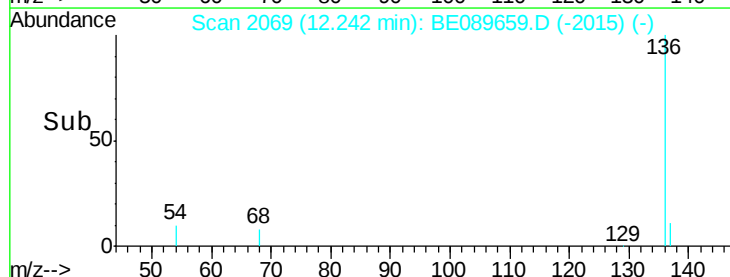
#4

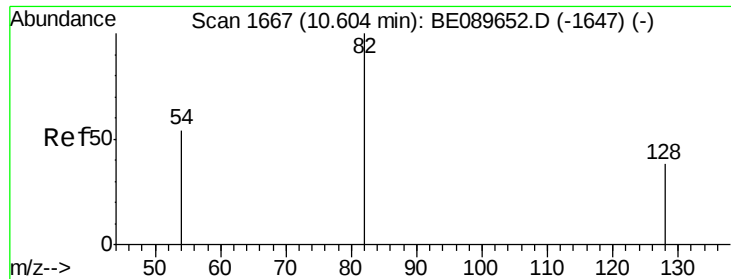
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: BE089659.D
 Acq: 24 Feb 2015 3:22

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	9.6	7.5	11.3



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: 8.77 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

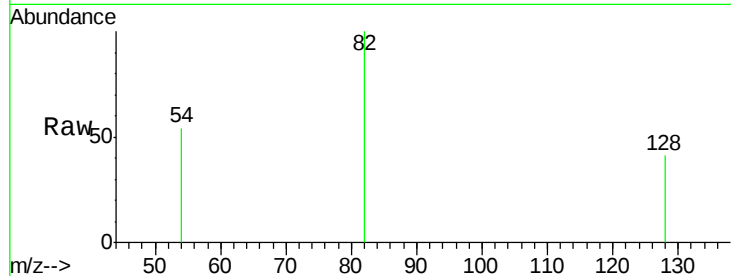
Tot Ion: 82 Resp: 102504

Ion Ratio Lower Upper

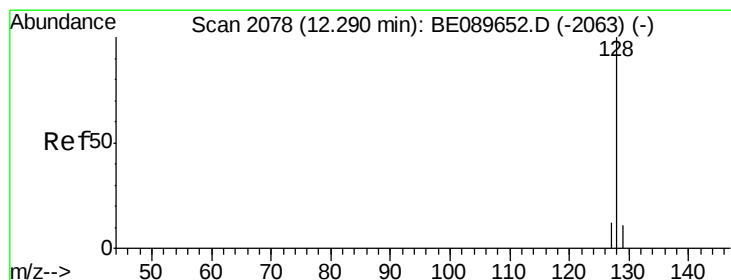
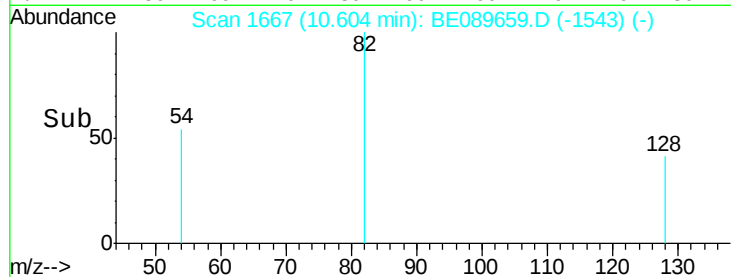
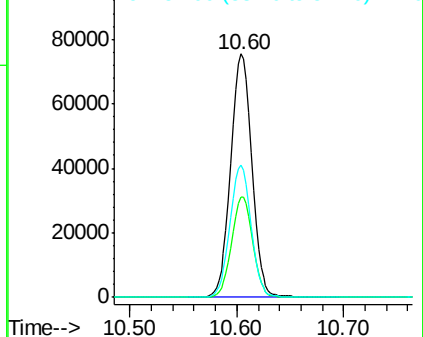
82 100

128 41.4 31.0 46.4

54 54.3 43.8 65.8



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: 0.14 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

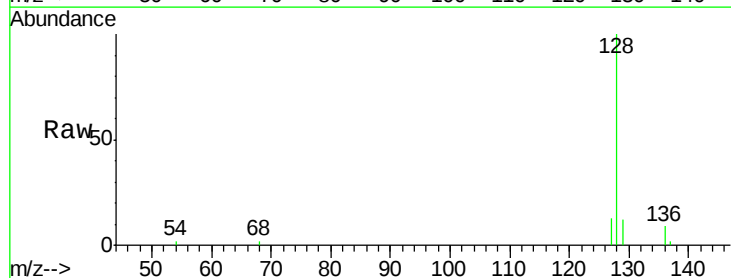
Tgt Ion: 128 Resp: 5660

Ion Ratio Lower Upper

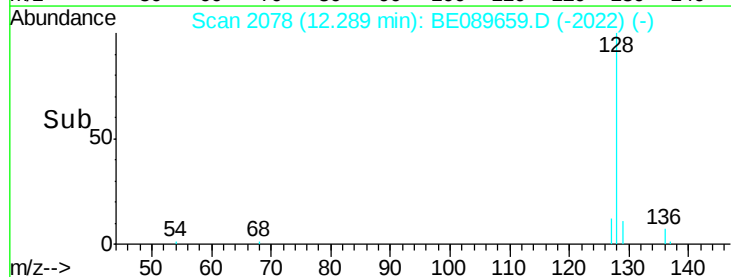
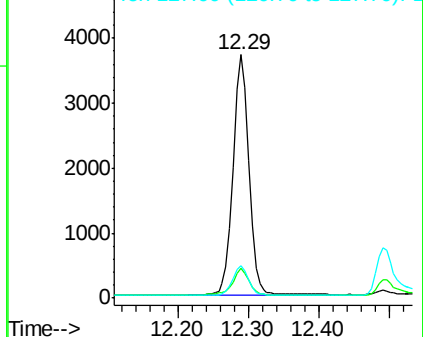
128 100

129 12.2 8.8 13.2

127 13.3 9.8 14.6



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: 0.13 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

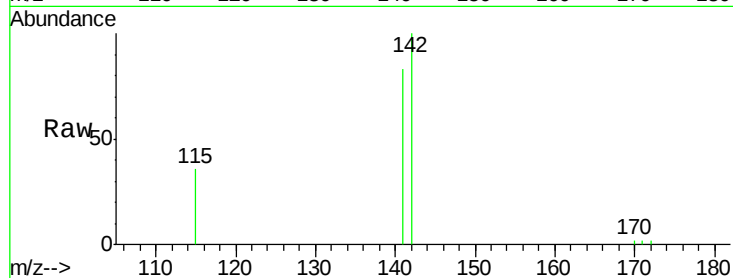
Tot Ion:142 Resp: 2935

Ion Ratio Lower Upper

142 100

141 83.2 68.6 103.0

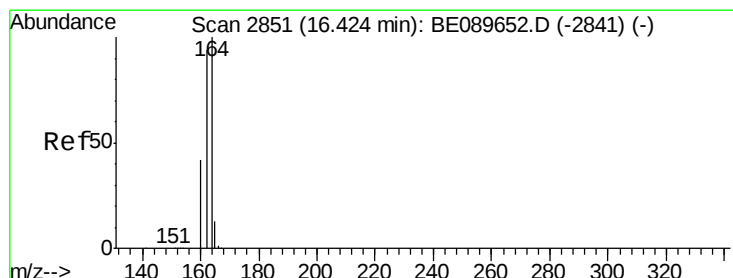
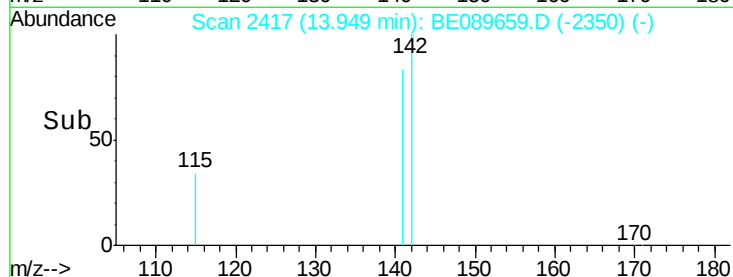
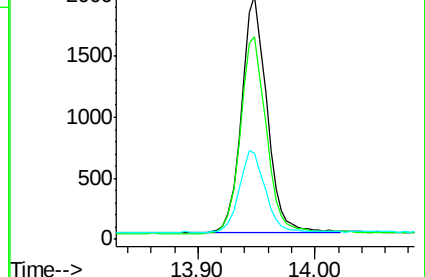
115 35.5 29.0 43.6



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# 2851

Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

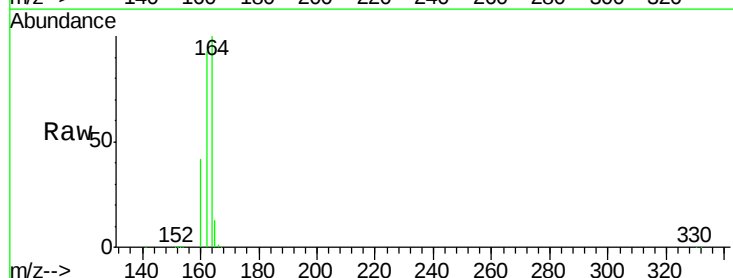
Tgt Ion:164 Resp: 87546

Ion Ratio Lower Upper

164 100

162 93.5 75.4 113.2

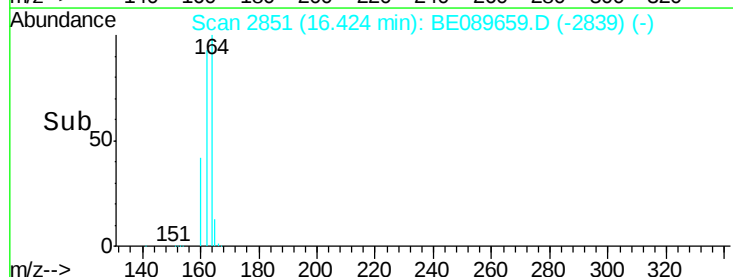
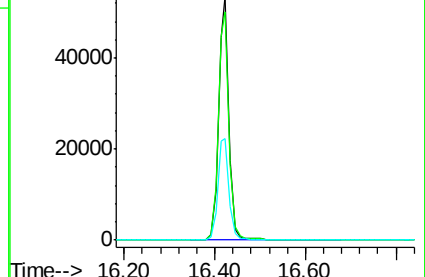
160 41.6 33.7 50.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

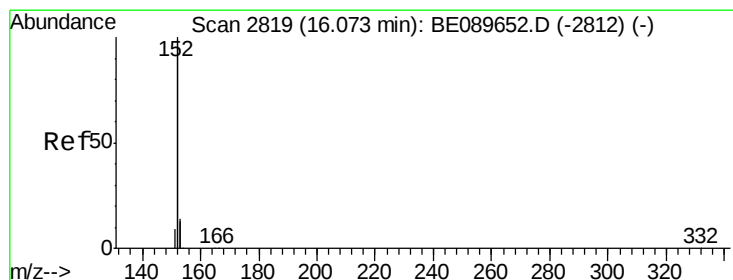
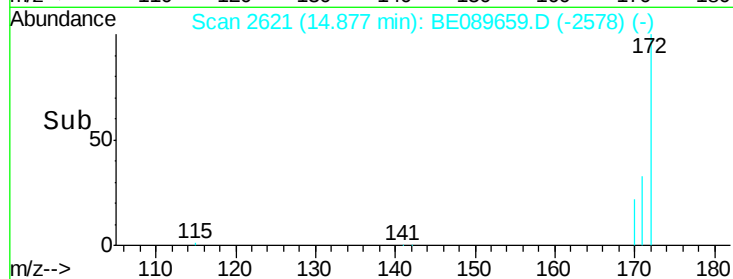
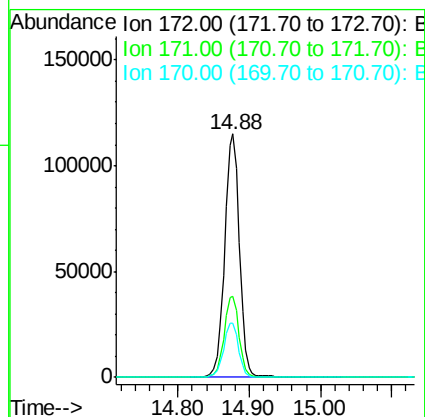
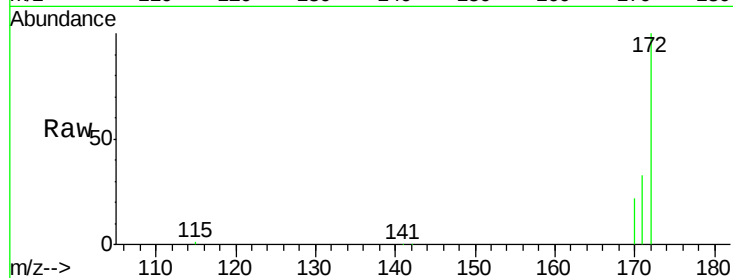
Ion 160.00 (159.70 to 160.70): E





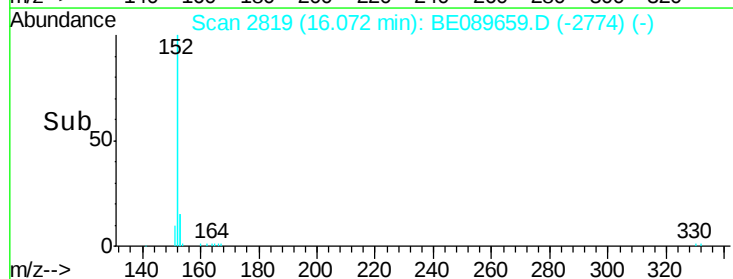
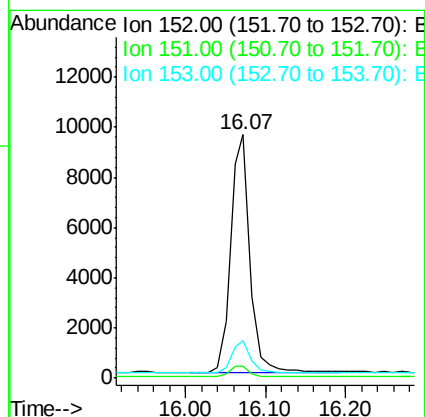
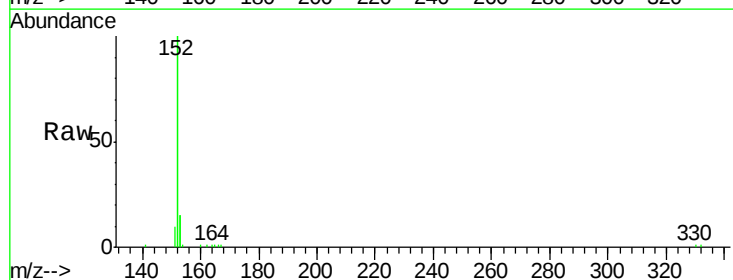
#9
2-Fluorobiphenyl
Concen: 8.51 ng
RT: 14.88 min Scan# 2621
Delta R.T. 0.00 min
Lab File: BE089659.D
Acq: 24 Feb 2015 3:22

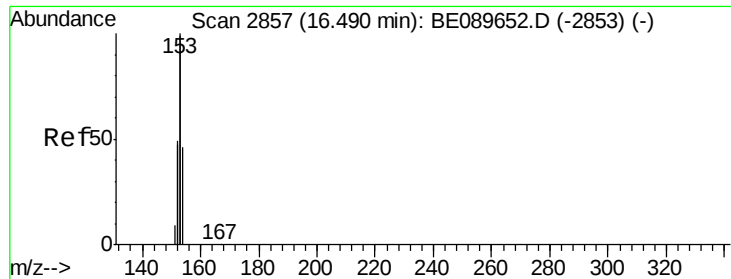
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.2	26.2	39.4
170	22.4	17.7	26.5



#10
Acenaphthylene
Concen: 0.13 ng
RT: 16.07 min Scan# 2819
Delta R.T. -0.00 min
Lab File: BE089659.D
Acq: 24 Feb 2015 3:22

Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.8	5.6
153	13.3	10.4	15.6





#11

Acenaphthene

Concen: 0.13 ng

RT: 16.49 min Scan# 2857

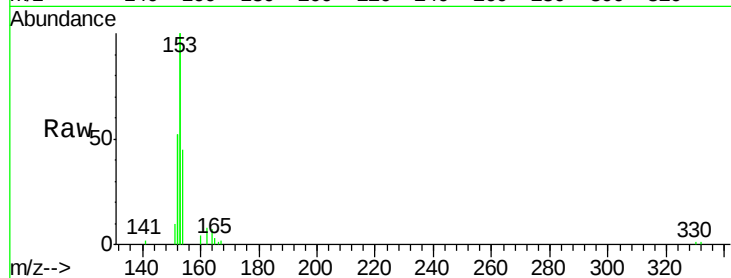
Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

Tot Ion:154 Resp: 2817

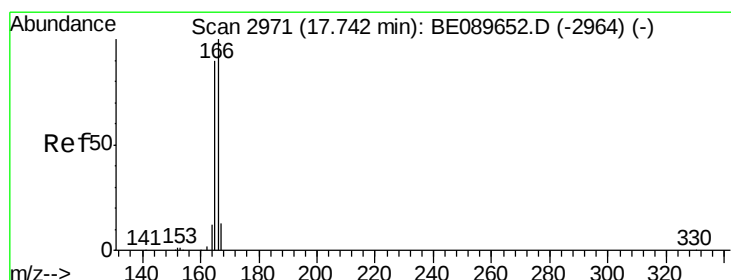
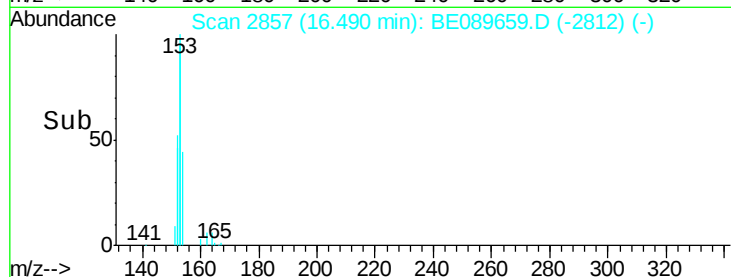
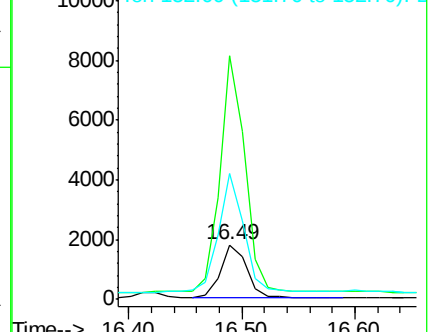
Ion	Ratio	Lower	Upper
154	100		
153	447.8	343.0	514.4
152	225.5	165.8	248.8



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# 2971

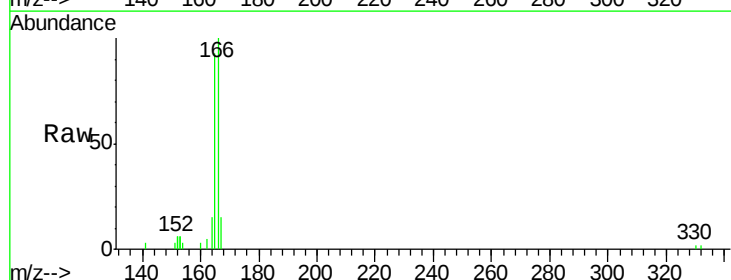
Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

Tgt Ion:166 Resp: 3234

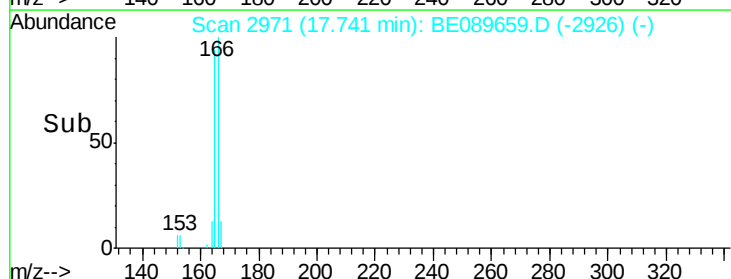
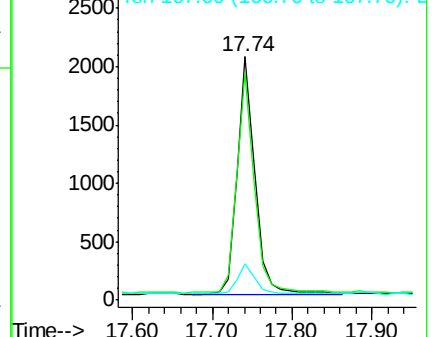
Ion	Ratio	Lower	Upper
166	100		
165	91.1	73.6	110.4
167	12.5	10.5	15.7

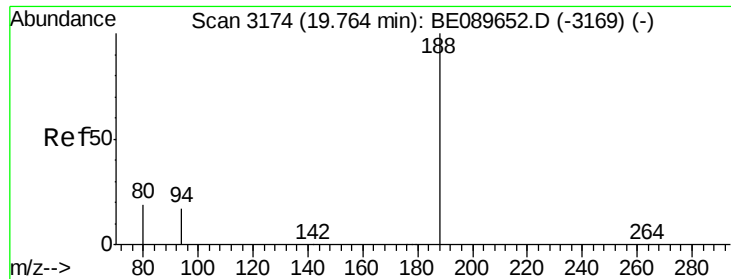


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

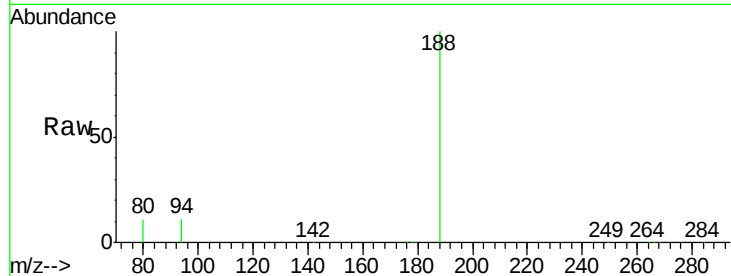
Ion 167.00 (166.70 to 167.70): E





#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3175
Delta R.T. 0.01 min
Lab File: BE089659.D
Acq: 24 Feb 2015 3:22

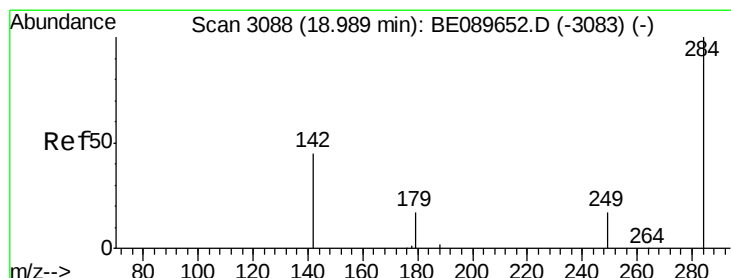
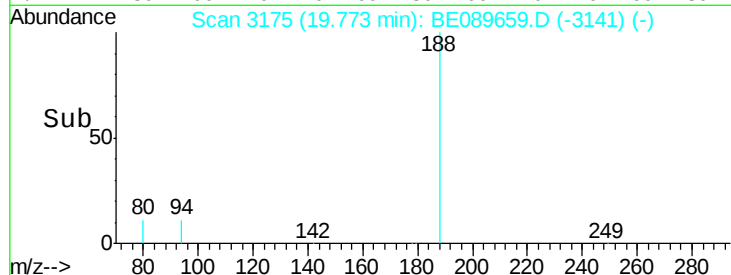
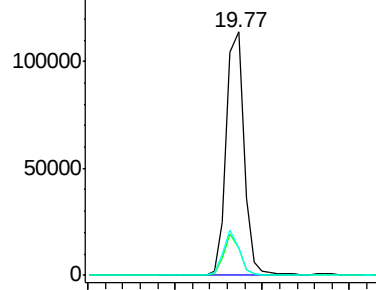
Tot Ion	Ratio	Lower	Upper
188	100		
94	11.3	13.8	20.8#
80	11.2	15.0	22.6#



Abundance Ion 188.00 (187.70 to 188.70): E

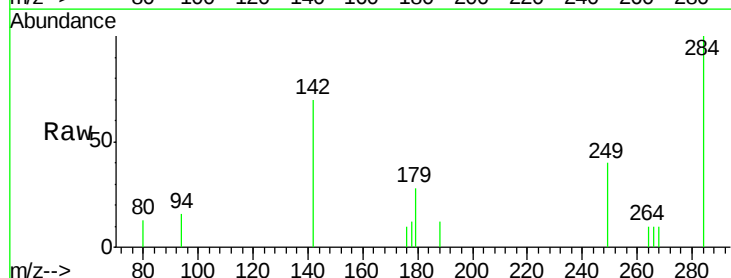
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14
Hexachlorobenzene
Concen: 0.15 ng
RT: 18.99 min Scan# 3088
Delta R.T. -0.00 min
Lab File: BE089659.D
Acq: 24 Feb 2015 3:22

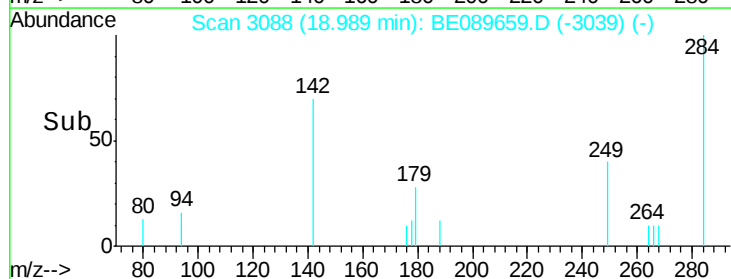
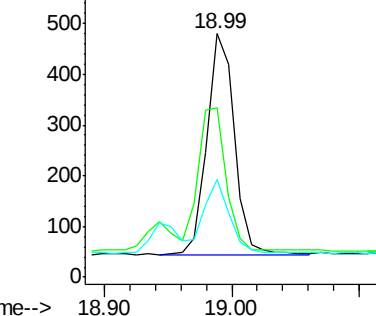
Tgt Ion	Ratio	Lower	Upper
284	100		
142	65.2	55.0	82.6
249	31.7	26.1	39.1

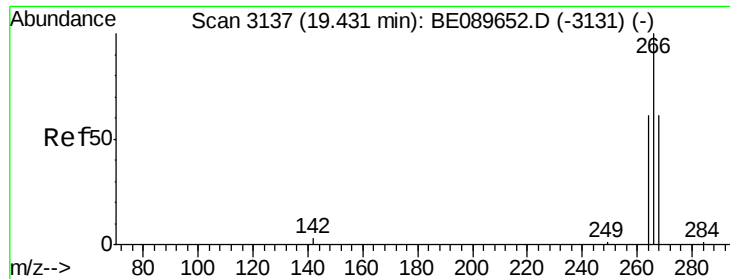


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

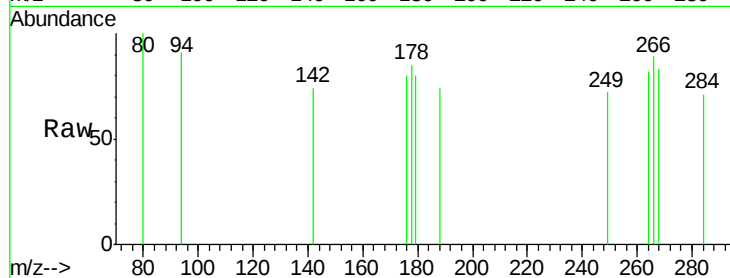
Ion 249.00 (248.70 to 249.70): E



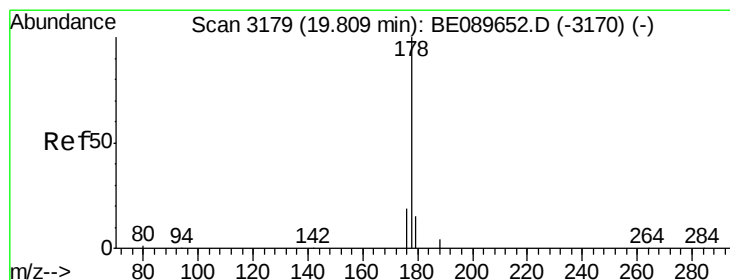
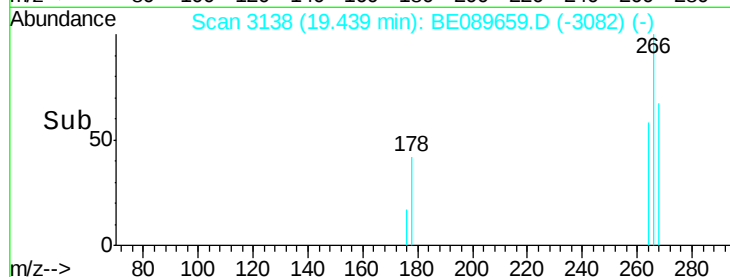
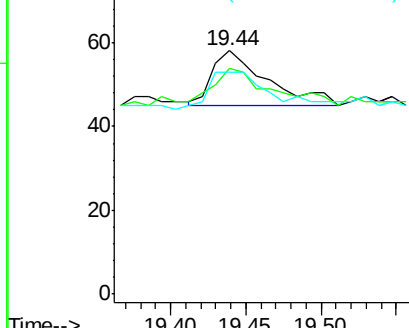


#15
 Pentachlorophenol
 Concen: 0.22 ng
 RT: 19.44 min Scan# 3138
 Delta R.T. 0.01 min
 Lab File: BE089659.D
 Acq: 24 Feb 2015 3:22

Tot Ion: 266 Resp: 32
 Ion Ratio Lower Upper
 266 100
 268 93.1 54.7 82.1#
 264 91.4 55.4 83.0#

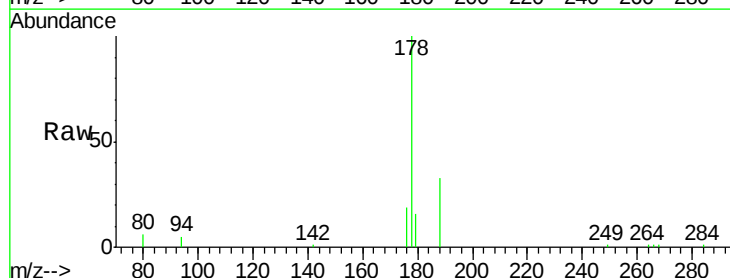


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

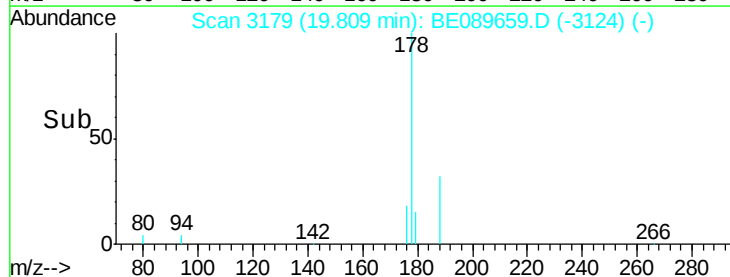
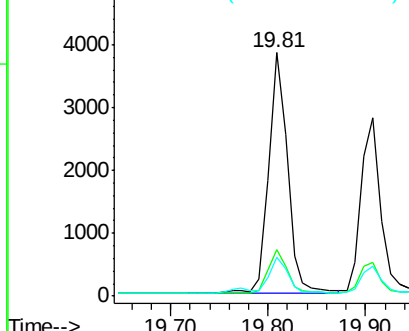


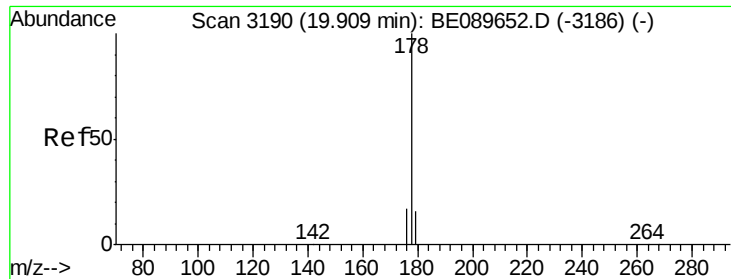
#16
 Phenanthrene
 Concen: 0.15 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. -0.00 min
 Lab File: BE089659.D
 Acq: 24 Feb 2015 3:22

Tgt Ion: 178 Resp: 5101
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.3 22.9
 179 17.2 12.3 18.5



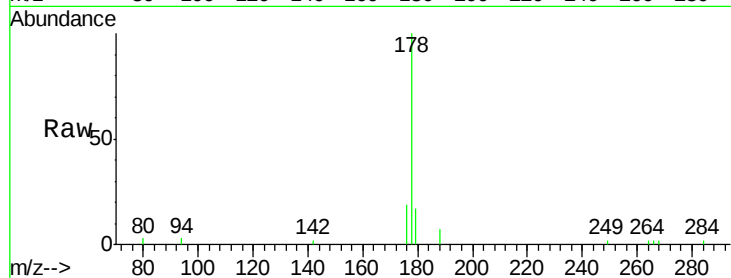
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E



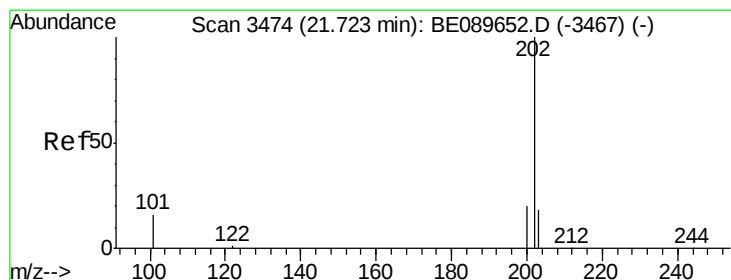
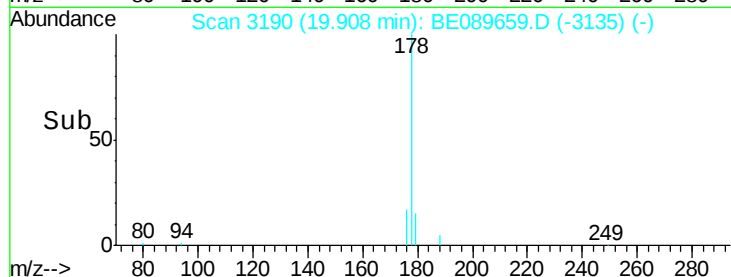
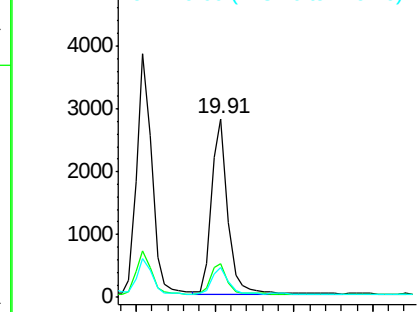


#17
 Anthracene
 Concen: 0.13 ng
 RT: 19.91 min Scan# 3190
 Delta R.T. -0.00 min
 Lab File: BE089659.D
 Acq: 24 Feb 2015 3:22

Tot Ion:178 Resp: 3961
 Ion Ratio Lower Upper
 178 100
 176 17.9 14.3 21.5
 179 14.8 12.1 18.1

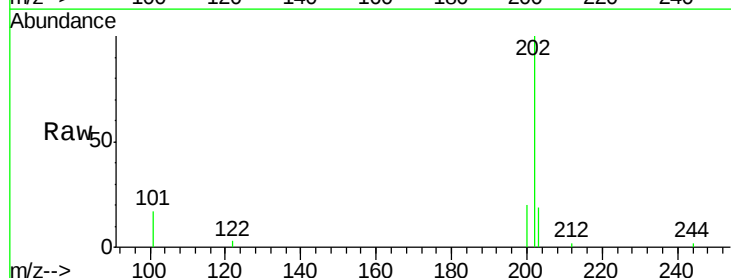


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

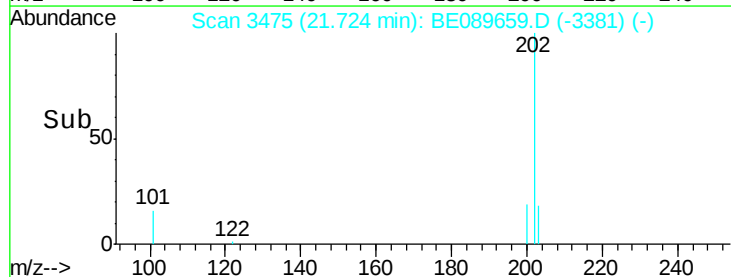
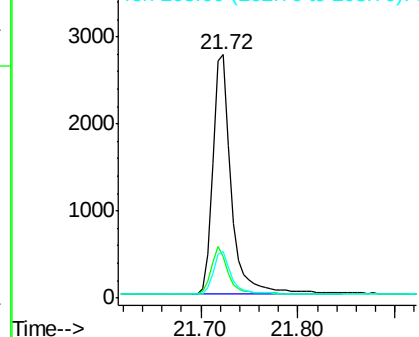


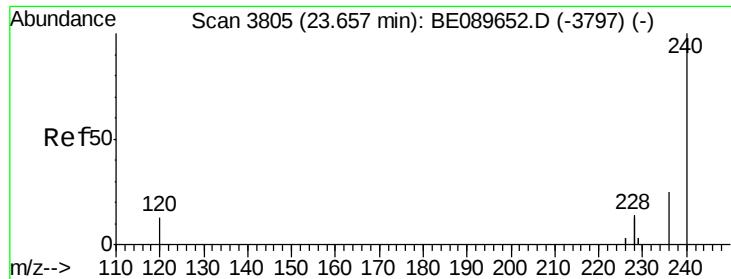
#18
 Fluoranthene
 Concen: 0.13 ng
 RT: 21.72 min Scan# 3475
 Delta R.T. 0.00 min
 Lab File: BE089659.D
 Acq: 24 Feb 2015 3:22

Tgt Ion:202 Resp: 3663
 Ion Ratio Lower Upper
 202 100
 101 18.1 14.9 22.3
 203 17.0 13.7 20.5



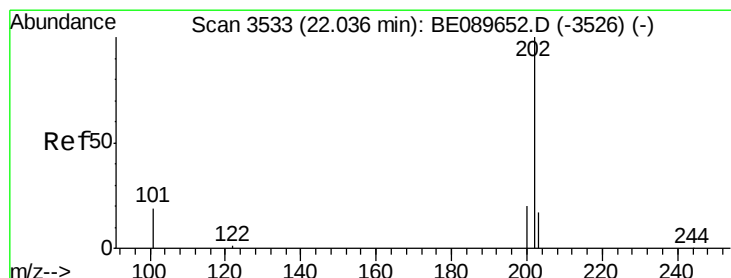
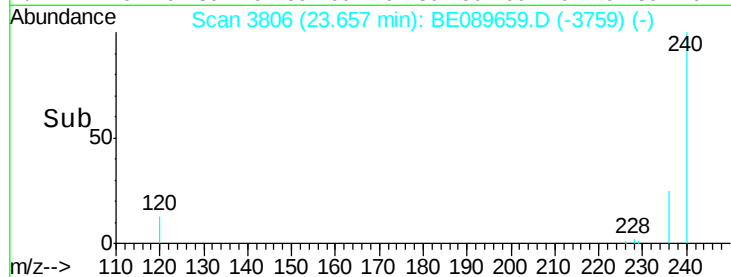
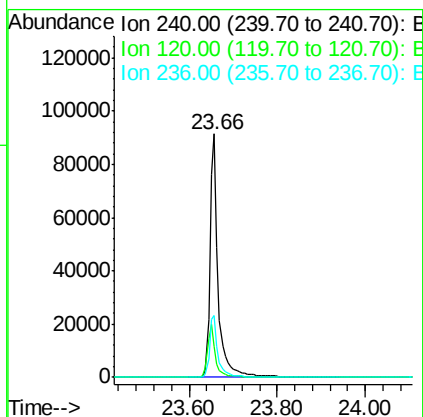
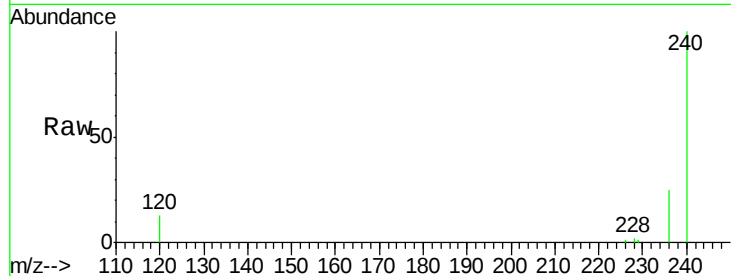
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





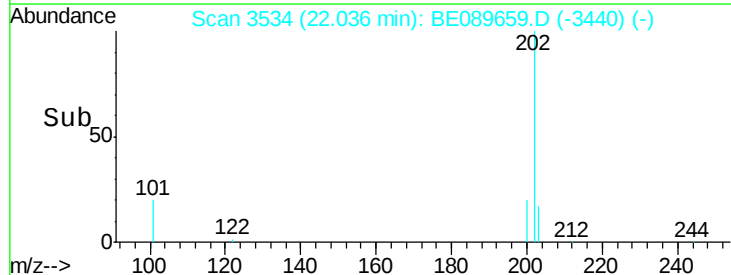
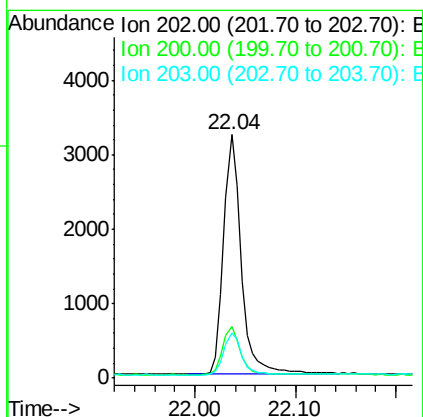
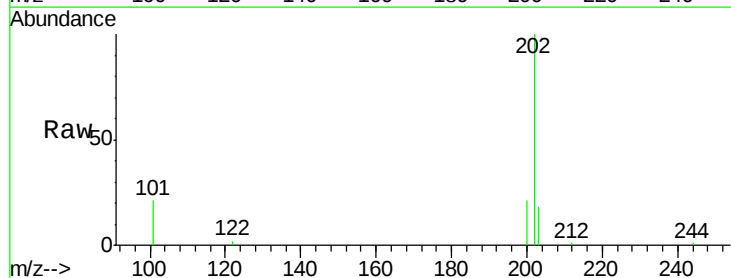
#19
Chrysene-d12
Concen: 5.00 ng
RT: 23.66 min Scan# 3806
Delta R.T. -0.00 min
Lab File: BE089659.D
Acq: 24 Feb 2015 3:22

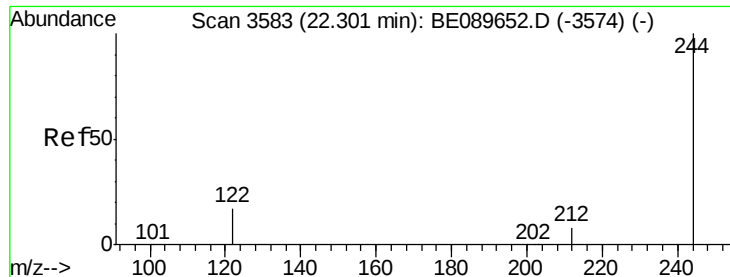
Tot Ion:240 Resp: 119793
Ion Ratio Lower Upper
240 100
120 12.6 10.6 15.8
236 25.3 20.3 30.5



#20
Pyrene
Concen: 0.13 ng
RT: 22.04 min Scan# 3534
Delta R.T. 0.00 min
Lab File: BE089659.D
Acq: 24 Feb 2015 3:22

Tgt Ion:202 Resp: 3955
Ion Ratio Lower Upper
202 100
200 20.4 16.5 24.7
203 17.6 13.8 20.6





#21

Terphenyl-d14

Concen: 8.77 ng

RT: 22.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

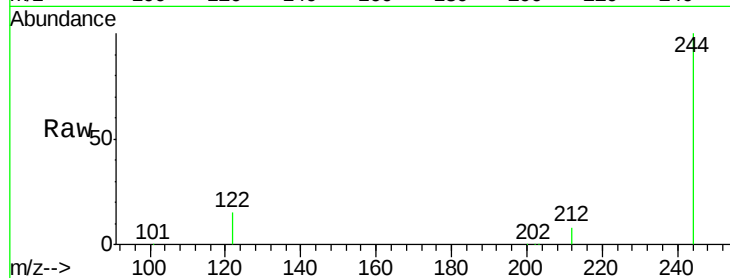
Tot Ion:244 Resp: 150112

Ion Ratio Lower Upper

244 100

212 8.0 6.6 10.0

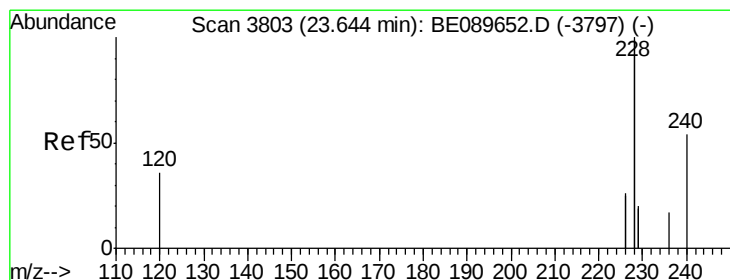
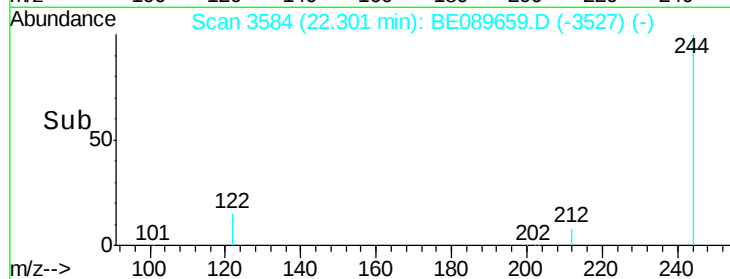
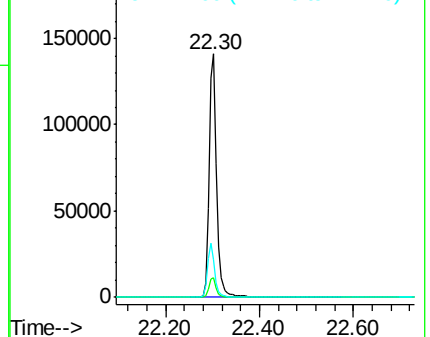
122 15.4 13.7 20.5



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: 0.14 ng

RT: 23.64 min Scan# 3804

Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

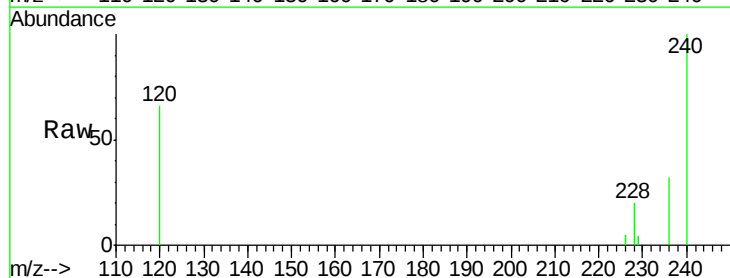
Tgt Ion:228 Resp: 11404

Ion Ratio Lower Upper

228 100

226 27.2 20.9 31.3

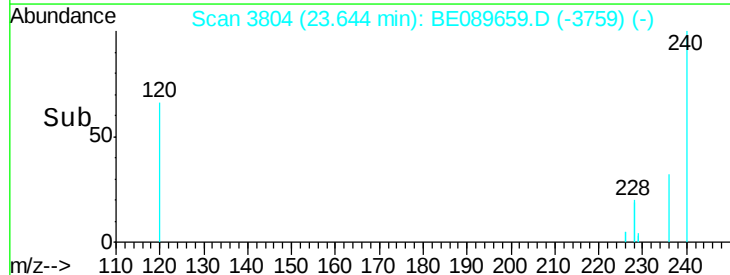
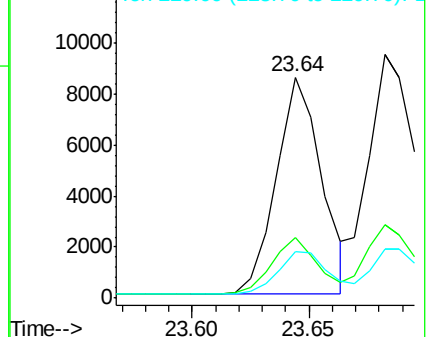
229 20.9 15.8 23.6



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: 0.16 ng

RT: 23.68 min Scan# 3810

Delta R.T. -0.01 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

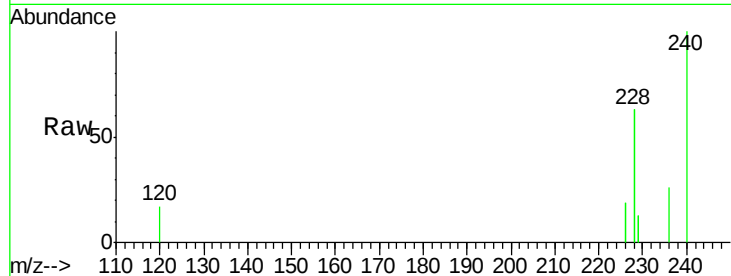
Tot Ion:228 Resp: 18608

Ion Ratio Lower Upper

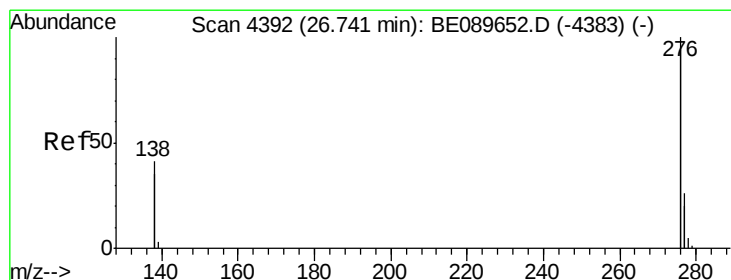
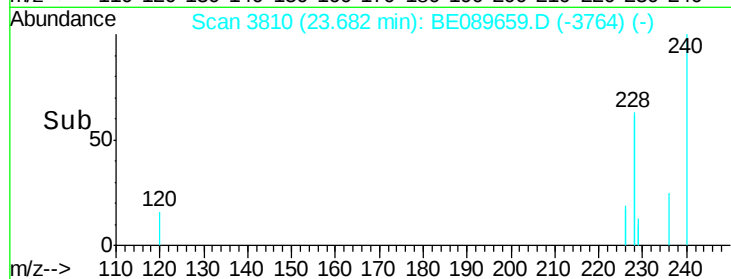
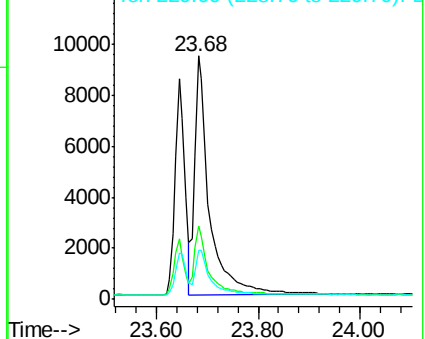
228 100

226 30.4 22.0 33.0

229 20.3 16.6 24.8



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.39 ng

RT: 26.74 min Scan# 4393

Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

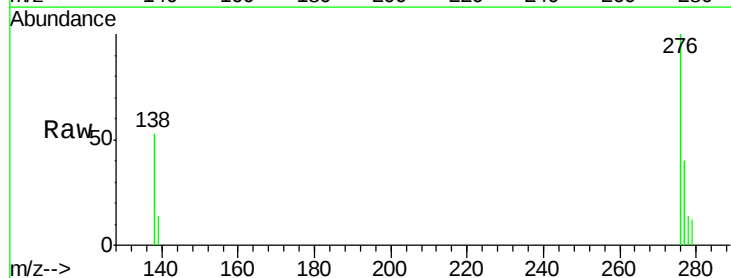
Tgt Ion:276 Resp: 3039

Ion Ratio Lower Upper

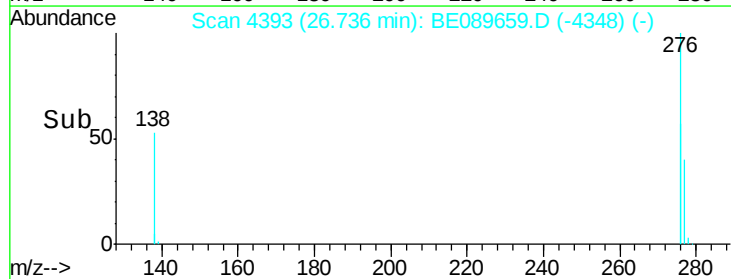
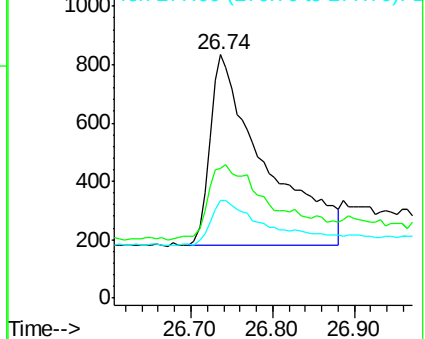
276 100

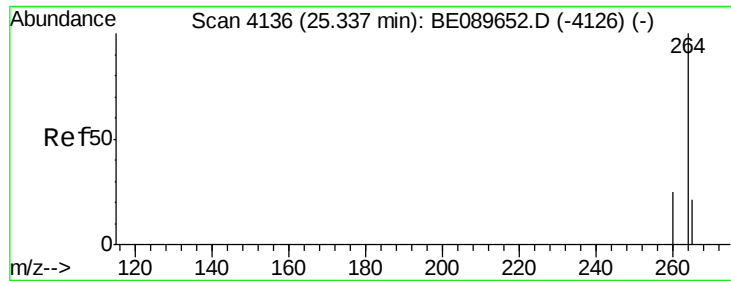
138 35.7 36.2 54.4#

277 25.9 5.4 8.2#



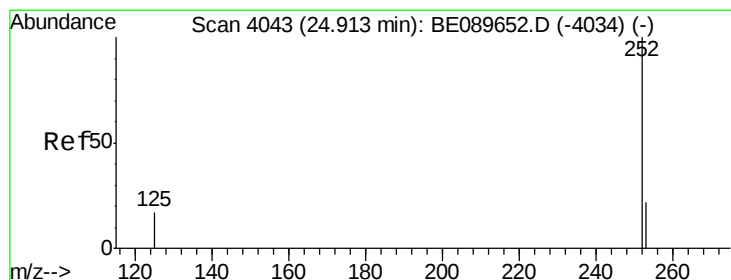
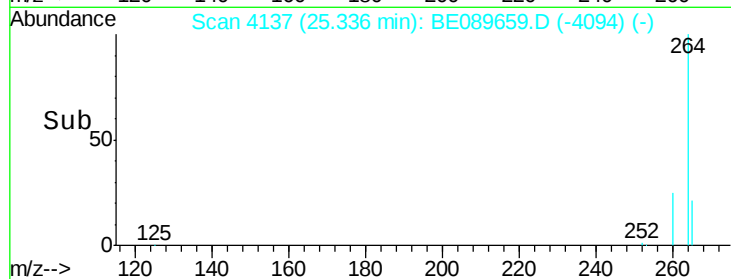
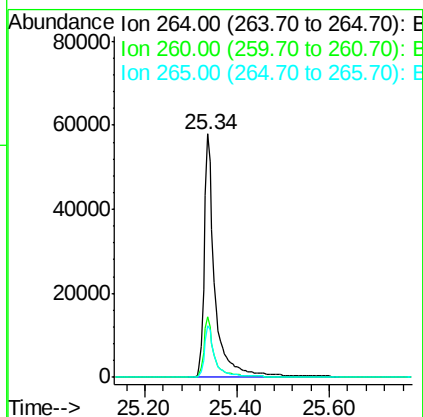
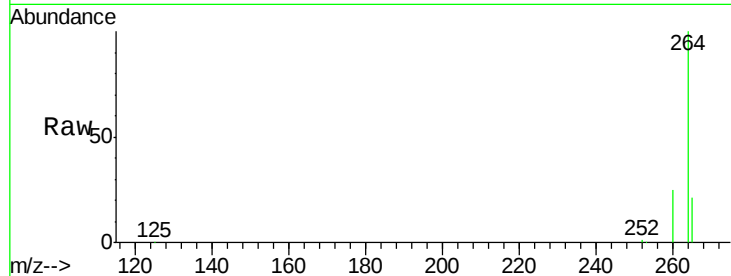
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





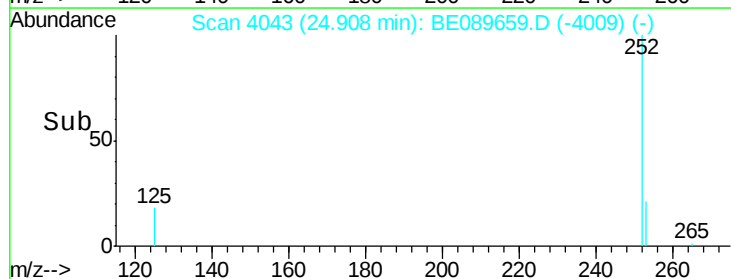
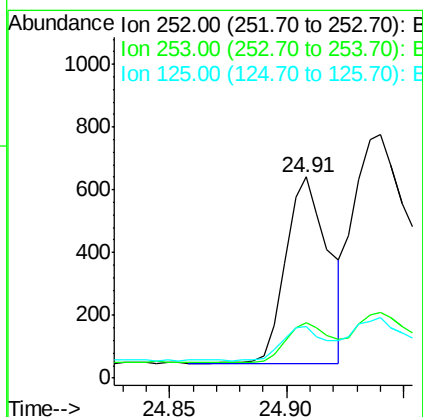
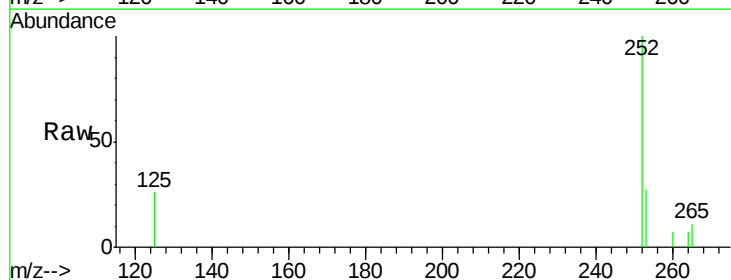
#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4137
Delta R.T. -0.00 min
Lab File: BE089659.D
Acq: 24 Feb 2015 3:22

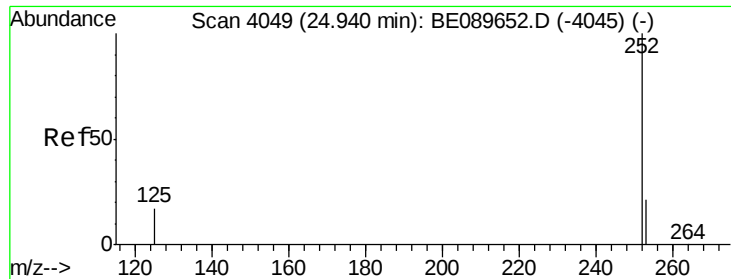
Tot Ion:264 Resp: 92488
Ion Ratio Lower Upper
264 100
260 25.0 20.0 30.0
265 21.1 16.8 25.2



#26
Benzo(b)fluoranthene
Concen: 0.42 ng
RT: 24.91 min Scan# 4043
Delta R.T. -0.00 min
Lab File: BE089659.D
Acq: 24 Feb 2015 3:22

Tgt Ion:252 Resp: 758
Ion Ratio Lower Upper
252 100
253 27.3 18.3 27.5
125 25.9 14.6 22.0#





#27

Benzo(k)fluoranthene

Concen: 0.13 ng m

RT: 24.94 min Scan# 4050

Delta R.T. 0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

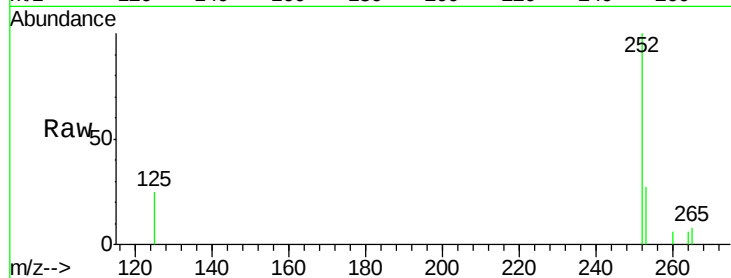
Tot Ion:252 Resp: 2599

Ion Ratio Lower Upper

252 100

253 27.1 17.8 26.8#

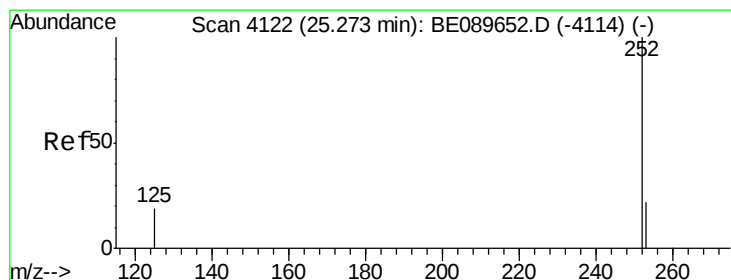
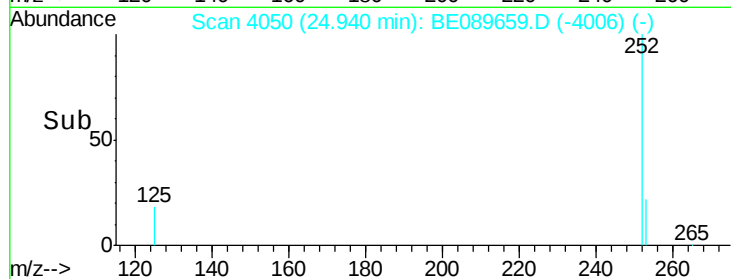
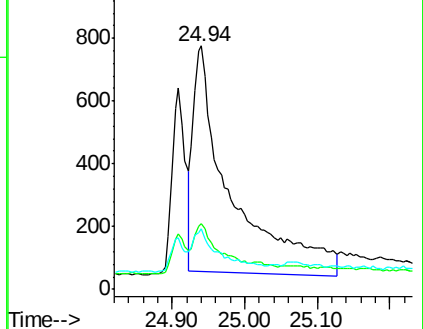
125 24.7 14.3 21.5#



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



#28

Benzo(a)pyrene

Concen: 0.37 ng

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

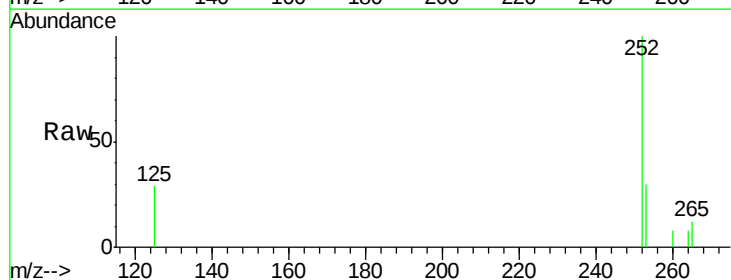
Tgt Ion:252 Resp: 887

Ion Ratio Lower Upper

252 100

253 29.8 18.4 27.6#

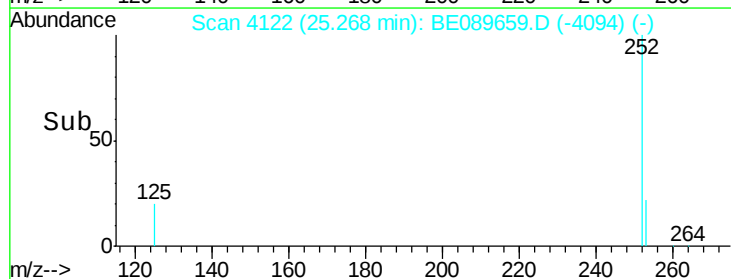
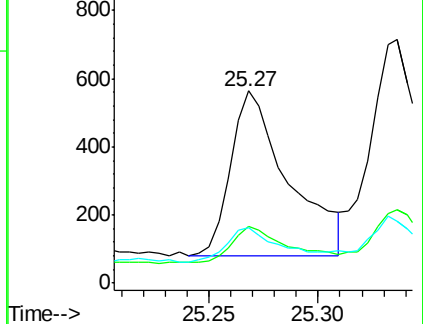
125 28.9 15.9 23.9#

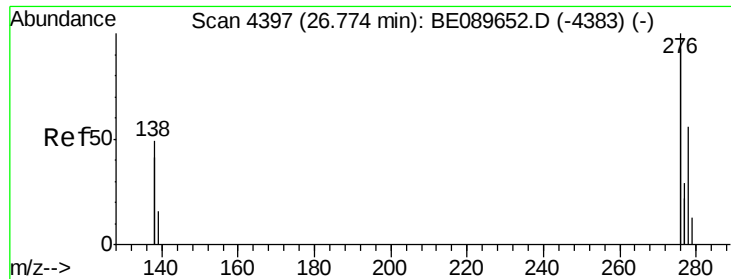


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.40 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

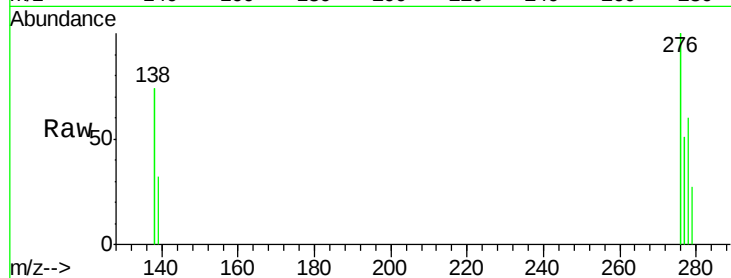
Tot Ion:278 Resp: 506

Ion Ratio Lower Upper

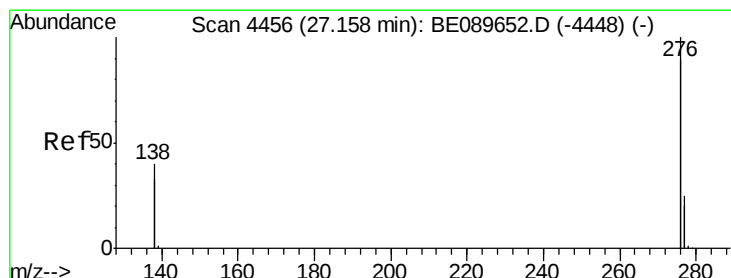
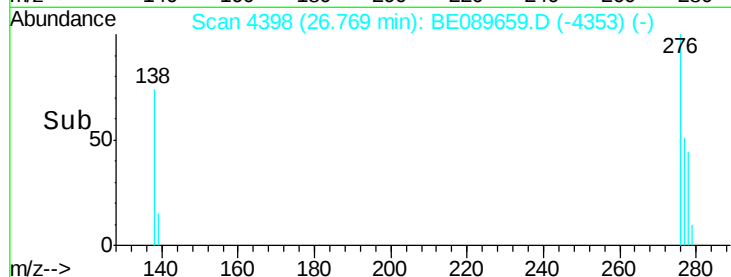
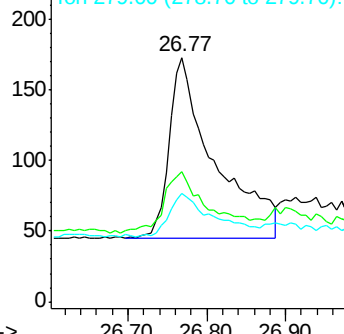
278 100

139 53.2 25.4 38.2#

279 44.5 20.0 30.0#



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(g,h,i)perylene

Concen: 0.29 ng

RT: 27.15 min Scan# 4457

Delta R.T. -0.00 min

Lab File: BE089659.D

Acq: 24 Feb 2015 3:22

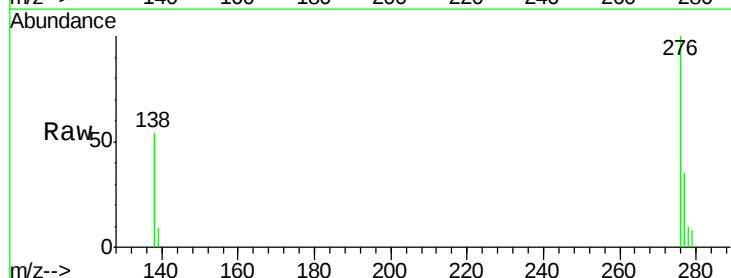
Tgt Ion:276 Resp: 4967

Ion Ratio Lower Upper

276 100

277 34.5 20.2 30.2#

138 53.6 32.4 48.6#



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

