

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022315\
 Data File : BE089661.D
 Acq On : 24 Feb 2015 4:40
 Operator : TP/JJ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 24 05:47:54 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	44523	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	185161	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	80793	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	146029	5.00	ng	0.00
19) Chrysene-d12	23.65	240	113250	5.00	ng	0.00
25) Perylene-d12	25.34	264	86697	5.00	ng	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	10.60	82	102783	9.19	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	174596	9.60	ng	0.00
21) Terphenyl-d14	22.30	244	162280	10.03	ng	0.00

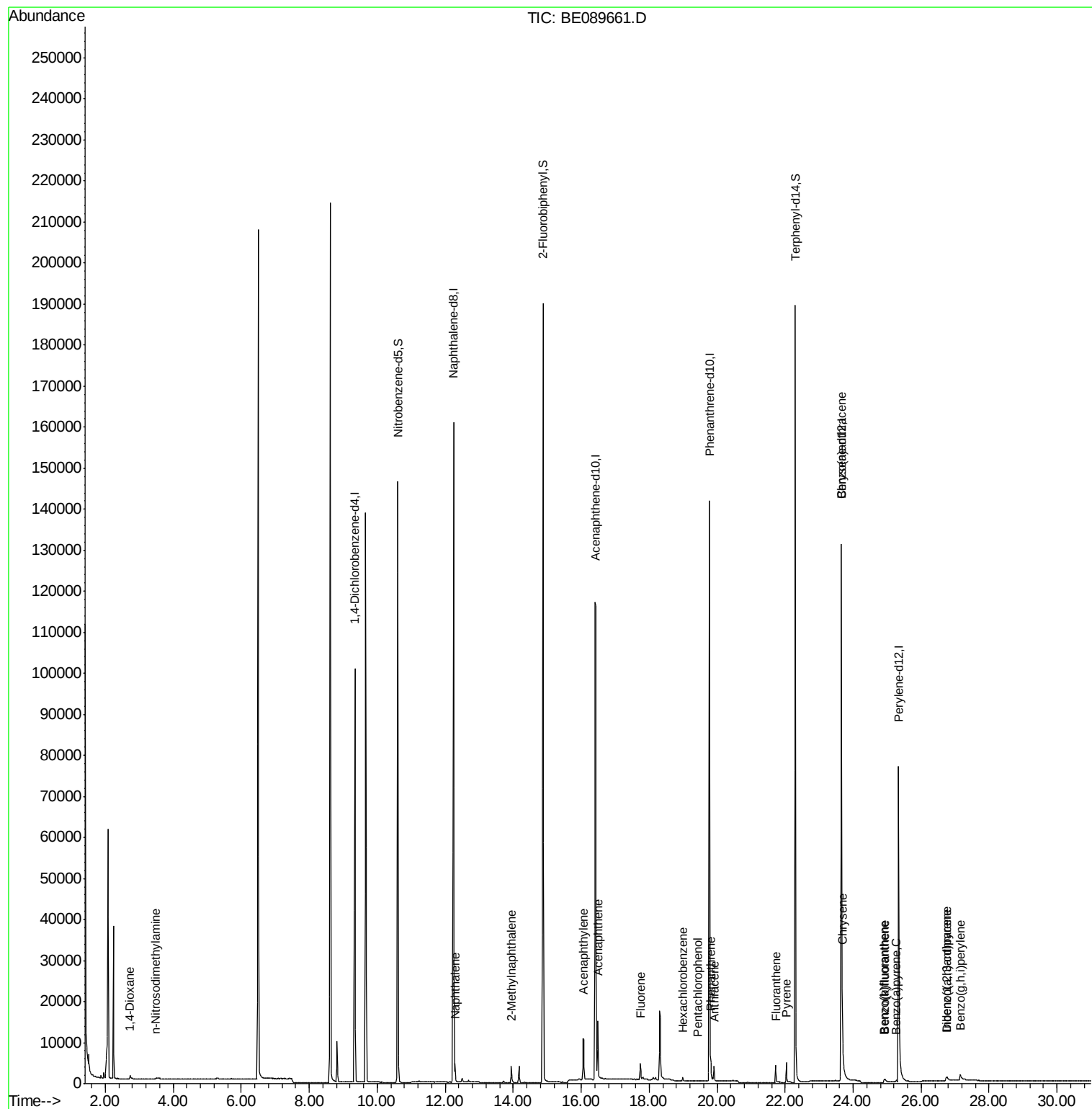
Target Compounds

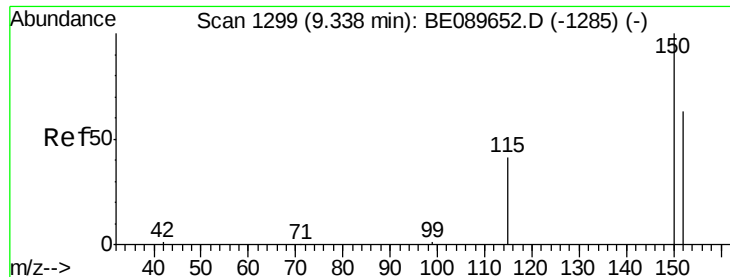
						Ovalue
2) 1,4-Dioxane	2.73	88	766	0.13	ng	# 75
3) n-Nitrosodimethylamine	3.49	42	502	0.12	ng	# 48
6) Naphthalene	12.29	128	5468	0.14	ng	97
7) 2-Methylnaphthalene	13.95	142	2845	0.13	ng	97
10) Acenaphthylene	16.06	152	15542	0.13	ng	99
11) Acenaphthene	16.49	154	2697	0.14	ng	93
12) Fluorene	17.74	166	3006	0.14	ng	100
14) Hexachlorobenzene	18.99	284	618	0.16	ng	96
15) Pentachlorophenol	19.44	266	32	0.22	ng	# 75
16) Phenanthrene	19.81	178	4838	0.15	ng	97
17) Anthracene	19.91	178	3740	0.14	ng	99
18) Fluoranthene	21.72	202	3503	0.13	ng	99
20) Pyrene	22.03	202	3855	0.14	ng	100
22) Benzo(a)anthracene	23.64	228	11044	0.14	ng	98
23) Chrysene	23.68	228	17622	0.16	ng	95
24) Indeno(1,2,3-cd)pyrene	26.74	276	2523	0.39	ng	# 58
26) Benzo(b)fluoranthene	24.91	252	699	0.42	ng	# 85
27) Benzo(k)fluoranthene	24.94	252	2215m	0.12	ng	
28) Benzo(a)pyrene	25.27	252	790	0.37	ng	# 86
29) Dibenzo(a,h)anthracene	26.77	278	385	0.39	ng	# 60
30) Benzo(g,h,i)perylene	27.16	276	3804	0.27	ng	# 81

(#) = 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: BE089661.D

Acq: 24 Feb 2015 4:40

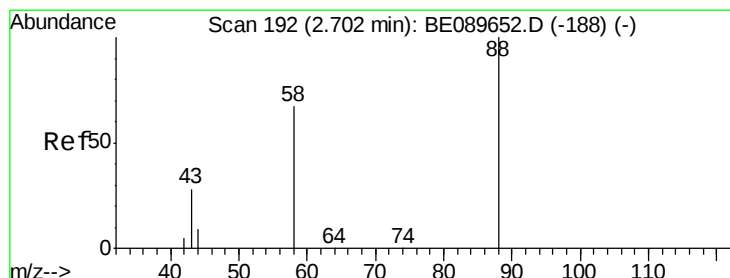
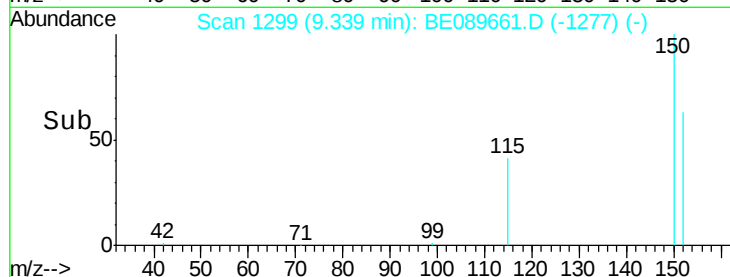
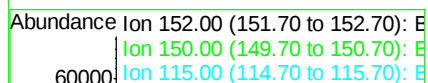
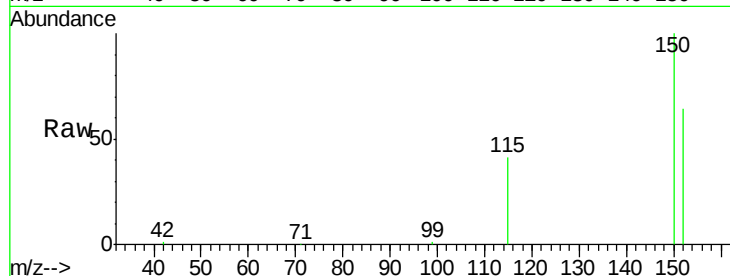
Tot Ion: 152 Resp: 44523

Ion Ratio Lower Upper

152 100

150 157.5 127.0 190.6

115 64.7 52.4 78.6



#2

1,4-Dioxane

Concen: 0.13 ng

RT: 2.73 min Scan# 196

Delta R.T. 0.02 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

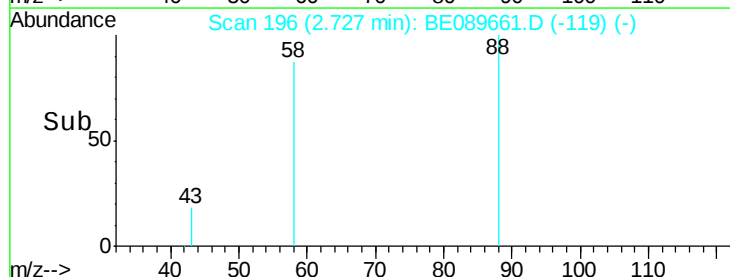
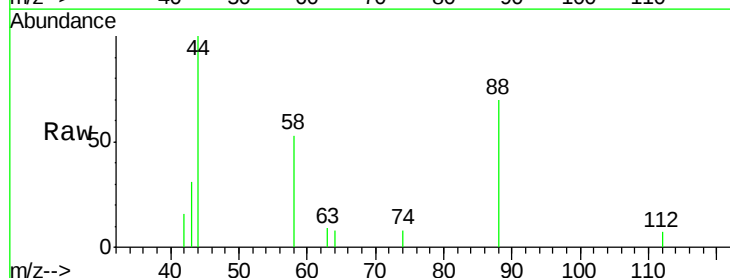
Tgt Ion: 88 Resp: 766

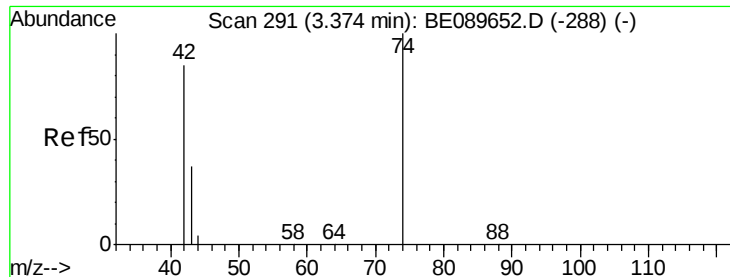
Ion Ratio Lower Upper

88 100

58 85.9 61.8 92.6

43 0.0 26.4 39.6

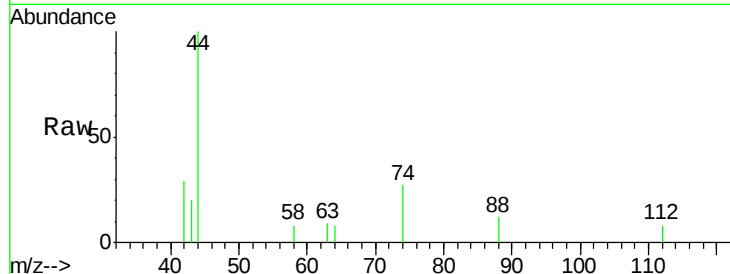




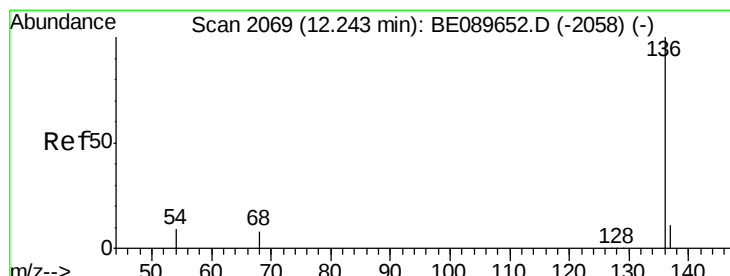
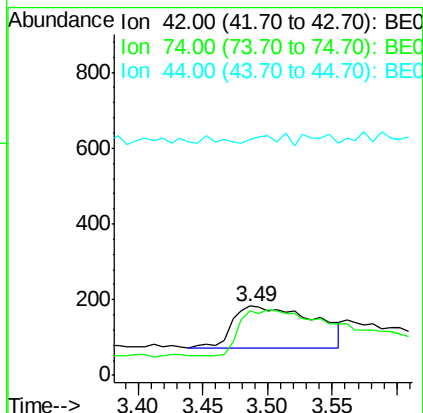
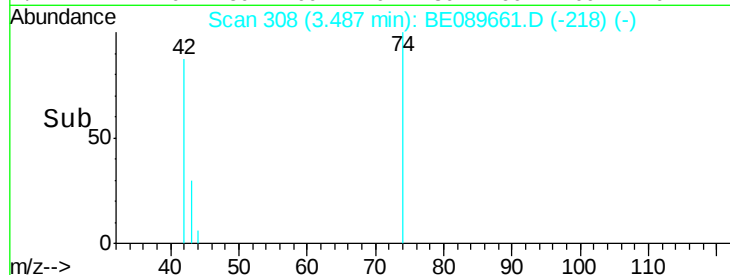
#3

n-Nitrosodimethylamine
 Concen: 0.12 ng
 RT: 3.49 min Scan# 308
 Delta R.T. 0.11 min
 Lab File: BE089661.D
 Acq: 24 Feb 2015 4:40

Tot Ion	Ratio	Lower	Upper
42	100		
74	175.3	92.5	138.7#
44	3.8	4.9	7.3#



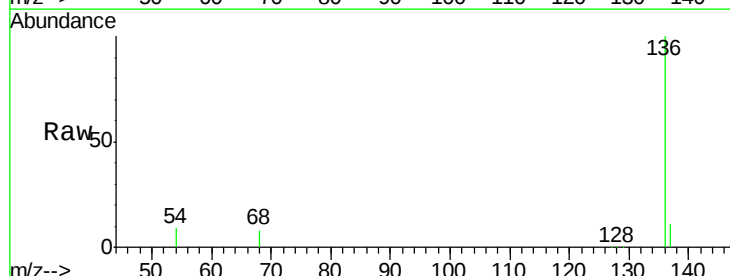
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



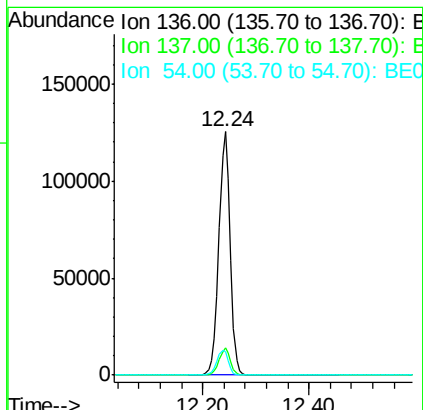
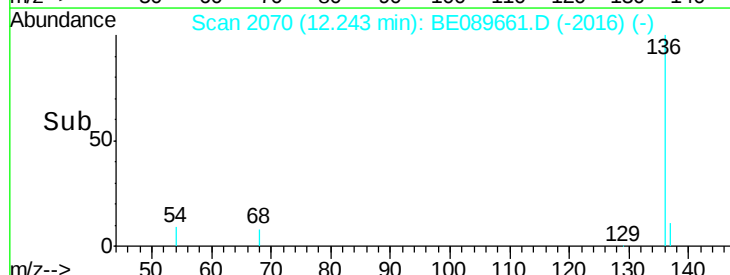
#4

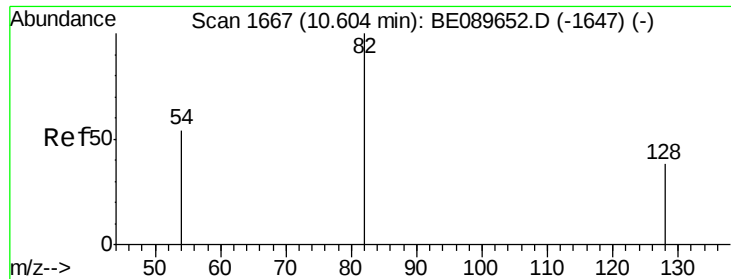
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: BE089661.D
 Acq: 24 Feb 2015 4:40

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.4	7.5	11.3



Abundance Ion 136.00 (135.70 to 136.70): BE0
 Ion 137.00 (136.70 to 137.70): BE0
 Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 9.19 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

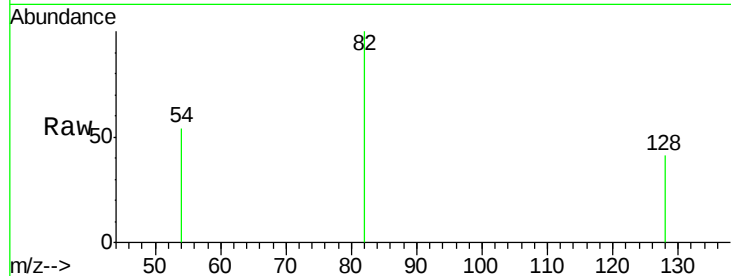
Tot Ion: 82 Resp: 102783

Ion Ratio Lower Upper

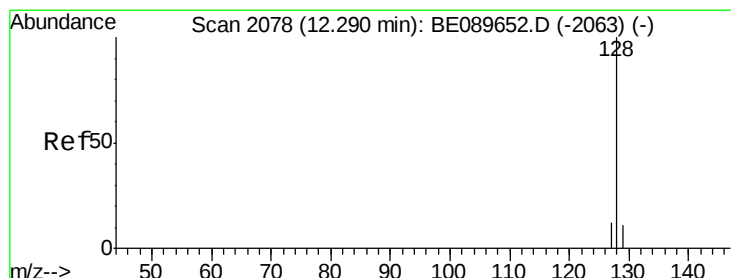
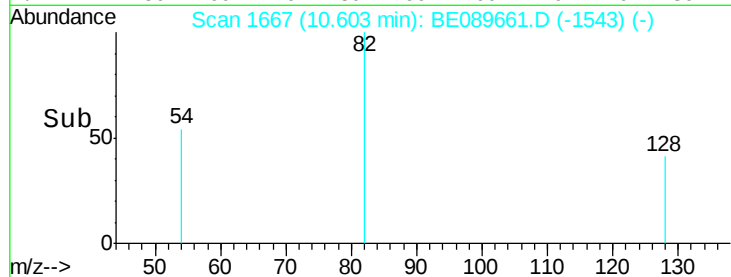
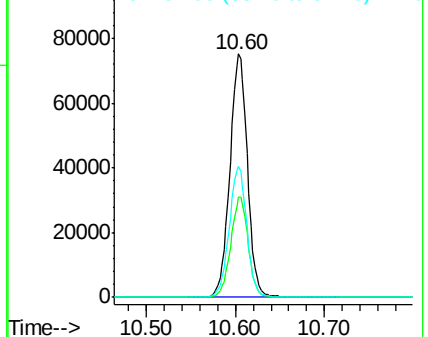
82 100

128 41.0 31.0 46.4

54 53.9 43.8 65.8



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: 0.14 ng

RT: 12.29 min Scan# 2079

Delta R.T. 0.00 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

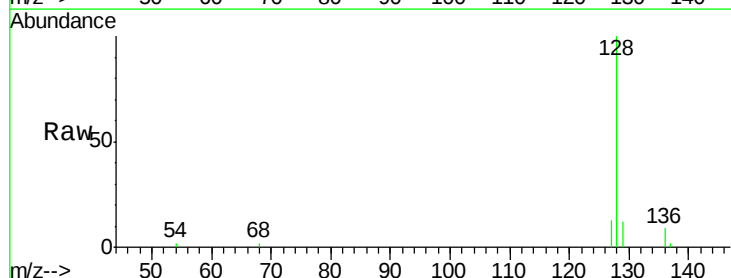
Tgt Ion: 128 Resp: 5468

Ion Ratio Lower Upper

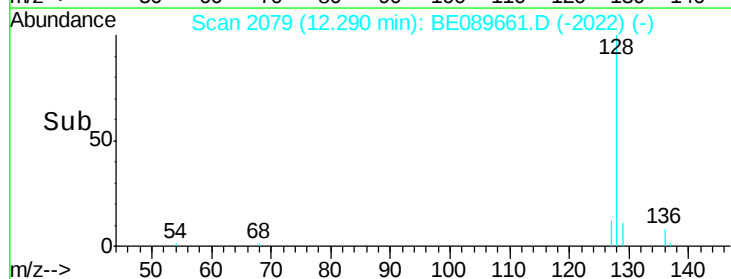
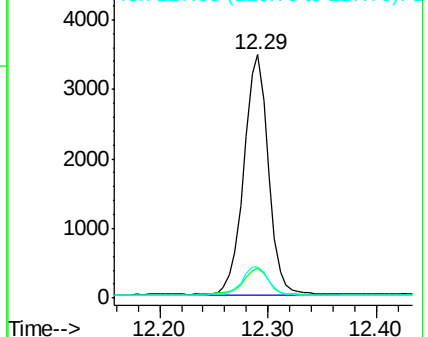
128 100

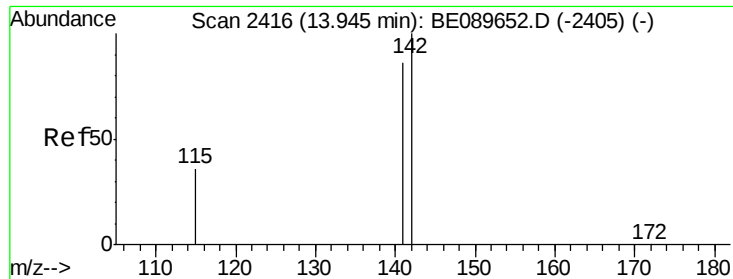
129 12.3 8.8 13.2

127 12.9 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# 2418

Delta R.T. 0.00 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

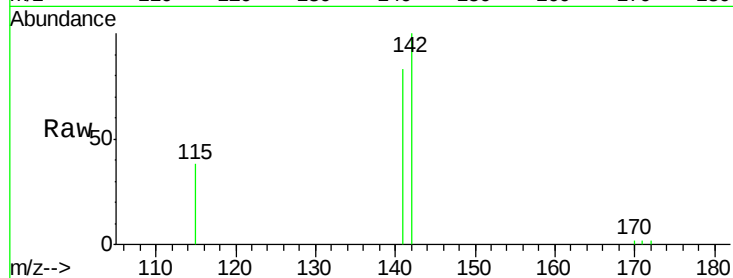
Tot Ion:142 Resp: 2845

Ion Ratio Lower Upper

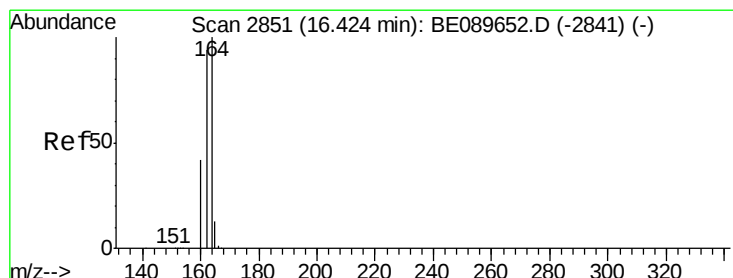
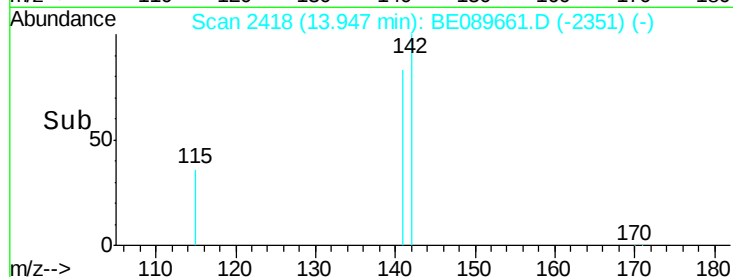
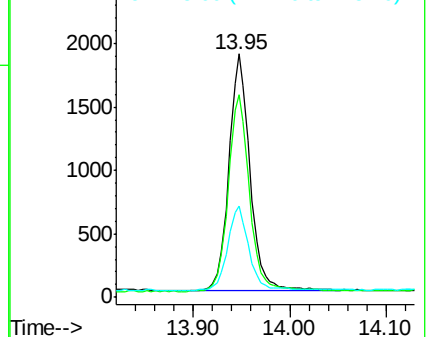
142 100

141 83.1 68.6 103.0

115 37.7 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# 2853

Delta R.T. 0.00 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

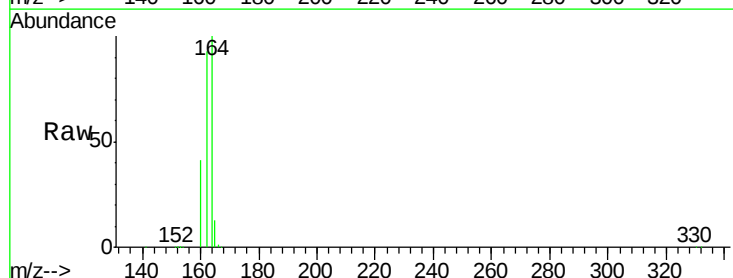
Tgt Ion:164 Resp: 80793

Ion Ratio Lower Upper

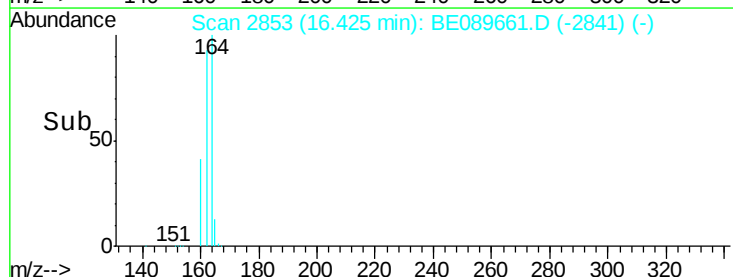
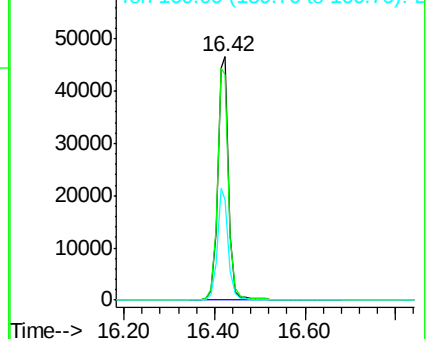
164 100

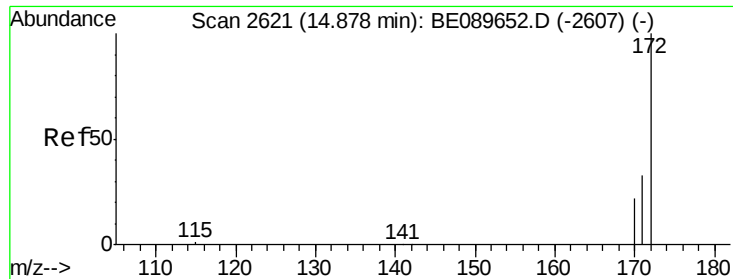
162 92.5 75.4 113.2

160 41.2 33.7 50.5



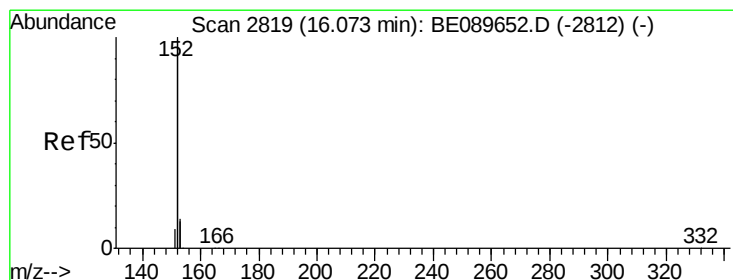
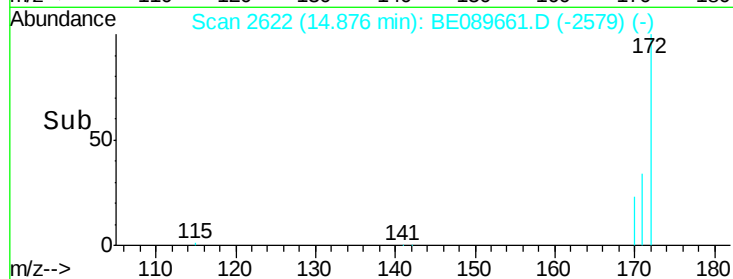
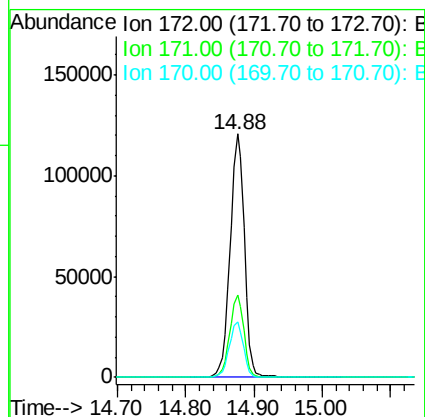
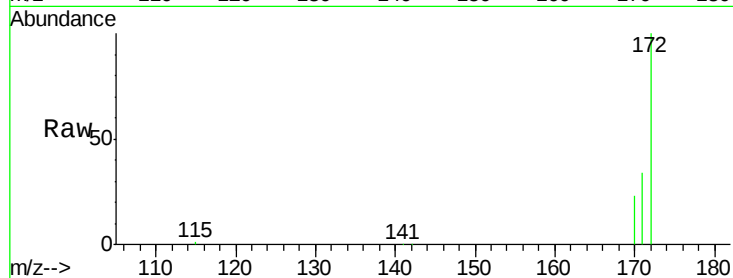
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





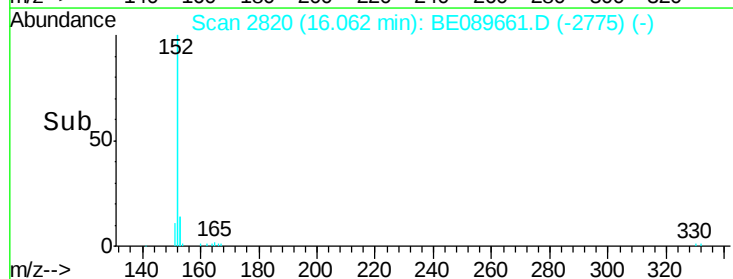
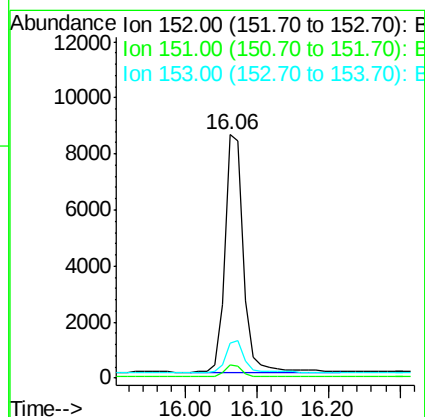
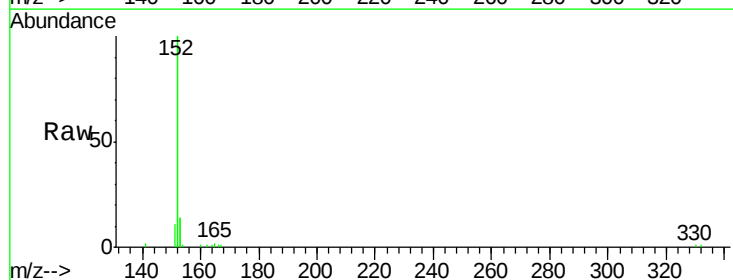
#9
2-Fluorobiphenyl
Concen: 9.60 ng
RT: 14.88 min Scan# 2622
Delta R.T. -0.00 min
Lab File: BE089661.D
Acq: 24 Feb 2015 4:40

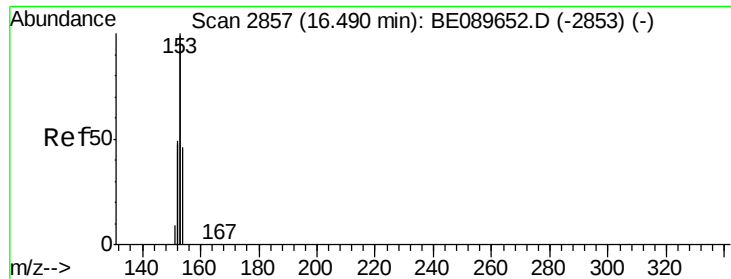
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.9	26.2	39.4
170	22.8	17.7	26.5



#10
Acenaphthylene
Concen: 0.13 ng
RT: 16.06 min Scan# 2820
Delta R.T. -0.01 min
Lab File: BE089661.D
Acq: 24 Feb 2015 4:40

Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.7	3.8	5.6
153	13.3	10.4	15.6





#11

Acenaphthene

Concen: 0.14 ng

RT: 16.49 min Scan# 2859

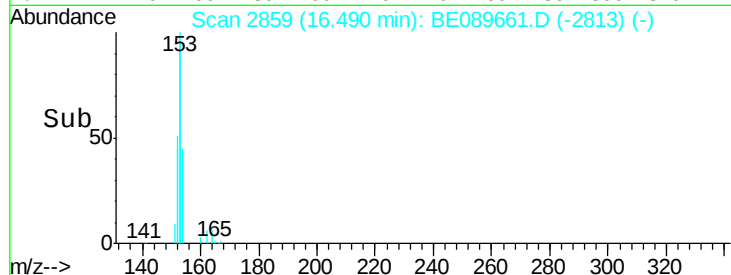
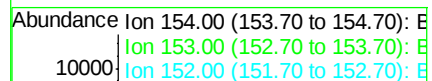
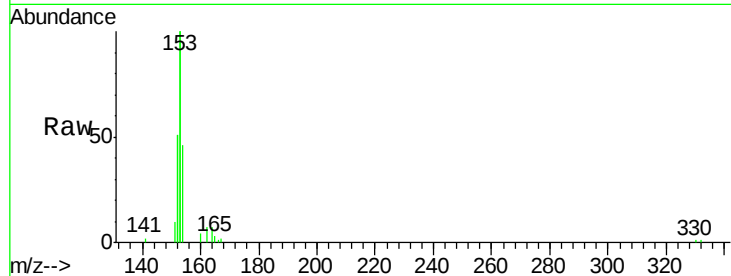
Delta R.T. 0.00 min

Lab File: BE089661.D

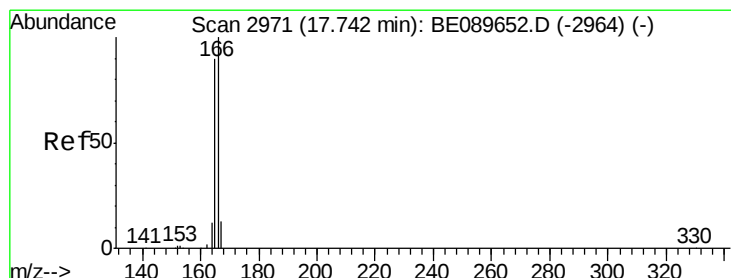
Acq: 24 Feb 2015 4:40

Tot Ion:154 Resp: 2697

Ion	Ratio	Lower	Upper
154	100		
153	443.9	343.0	514.4
152	223.1	165.8	248.8



Time-->



#12

Fluorene

Concen: 0.14 ng

RT: 17.74 min Scan# 2973

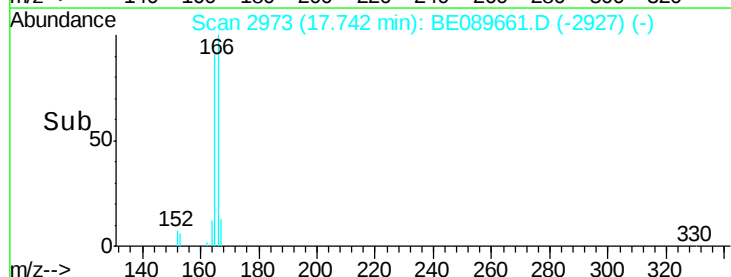
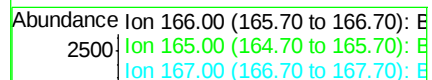
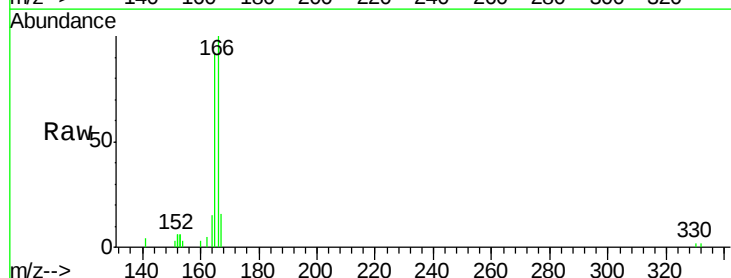
Delta R.T. 0.00 min

Lab File: BE089661.D

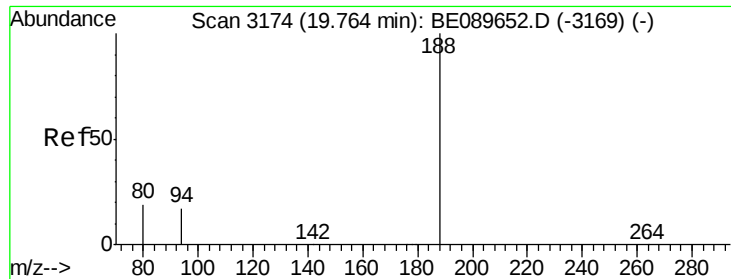
Acq: 24 Feb 2015 4:40

Tgt Ion:166 Resp: 3006

Ion	Ratio	Lower	Upper
166	100		
165	92.2	73.6	110.4
167	13.7	10.5	15.7

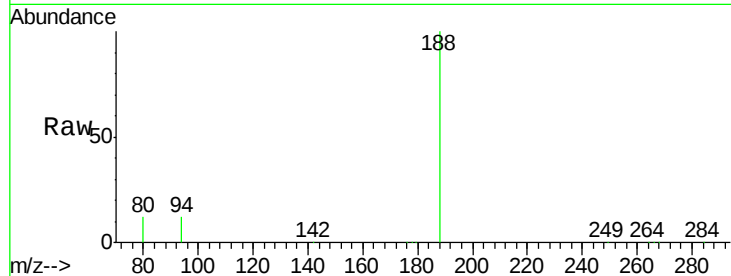


Time-->



#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3177
Delta R.T. 0.01 min
Lab File: BE089661.D
Acq: 24 Feb 2015 4:40

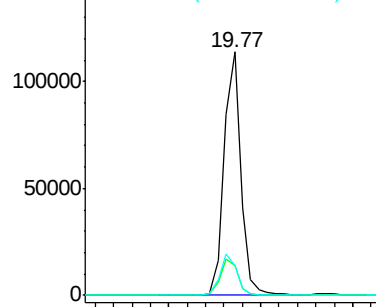
Tot Ion	Ratio	Lower	Upper
188	100		
94	12.0	13.8	20.8#
80	12.0	15.0	22.6#



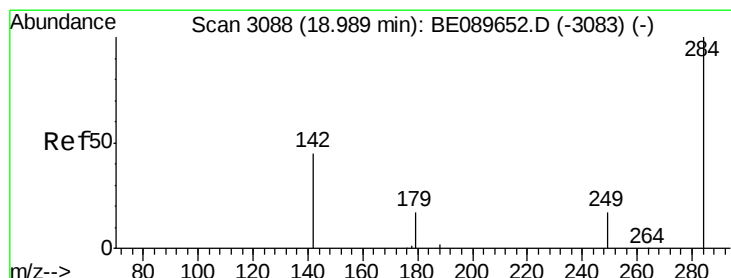
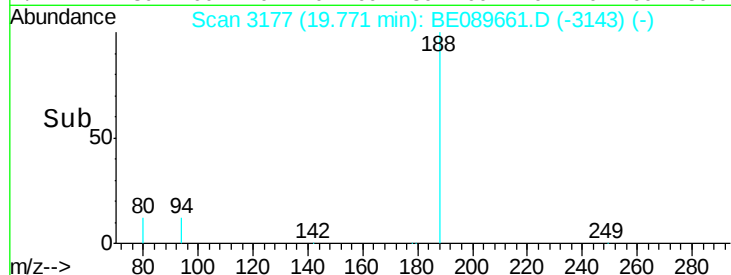
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

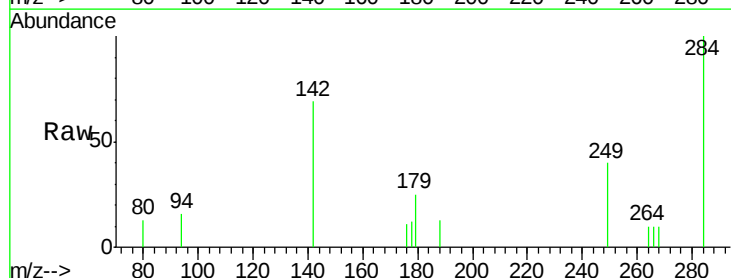


Time-->



#14
Hexachlorobenzene
Concen: 0.16 ng
RT: 18.99 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BE089661.D
Acq: 24 Feb 2015 4:40

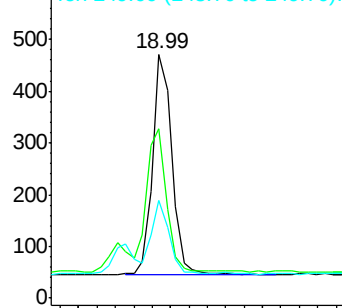
Tgt Ion	Ratio	Lower	Upper
284	100		
142	65.5	55.0	82.6
249	30.1	26.1	39.1



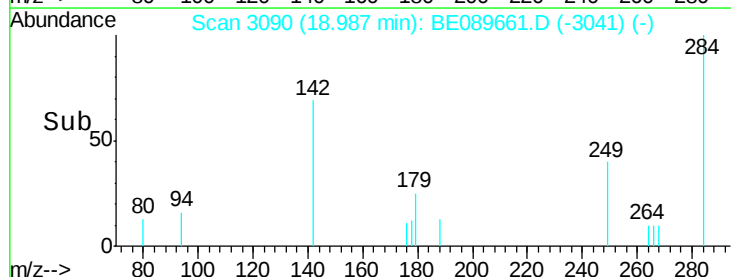
Abundance Ion 283.80 (283.50 to 284.50): E

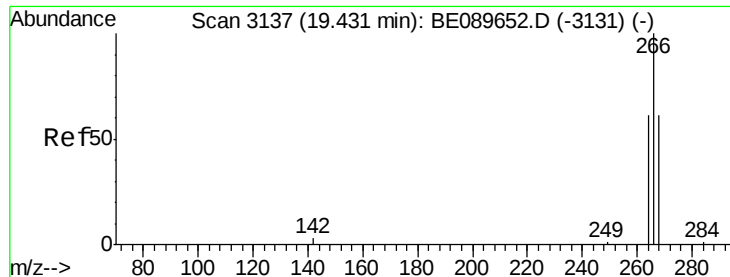
Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



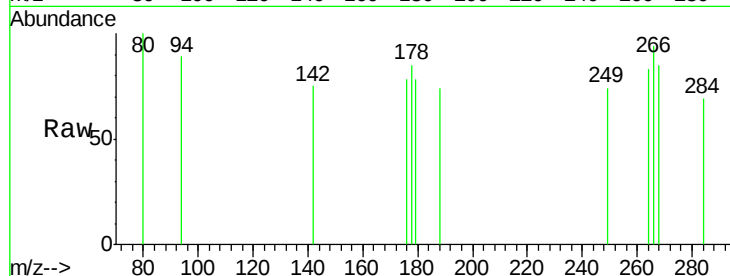
Time-->



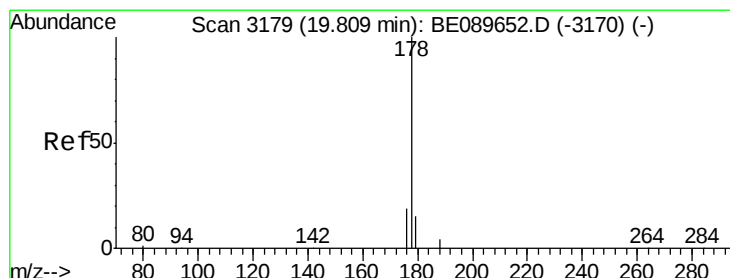
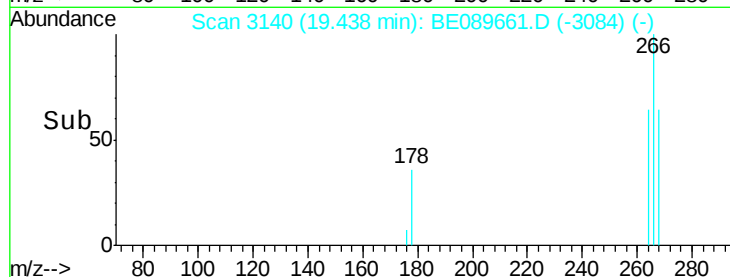
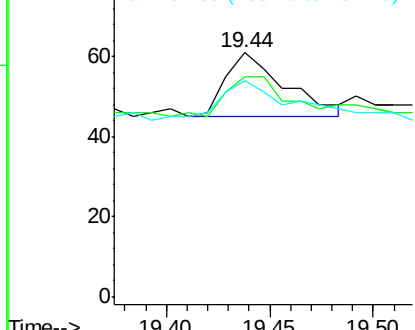


#15
 Pentachlorophenol
 Concen: 0.22 ng
 RT: 19.44 min Scan# 3140
 Delta R.T. 0.01 min
 Lab File: BE089661.D
 Acq: 24 Feb 2015 4:40

Tot Ion: 266 Resp: 32
 Ion Ratio Lower Upper
 266 100
 268 90.2 54.7 82.1#
 264 88.5 55.4 83.0#

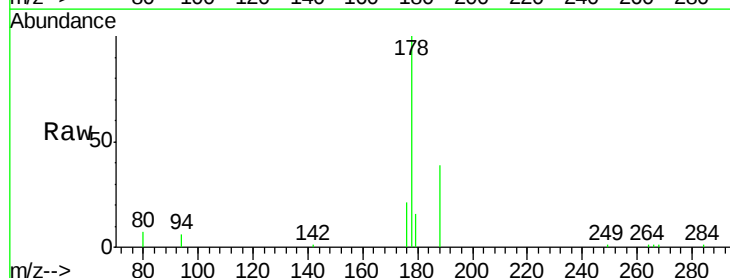


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

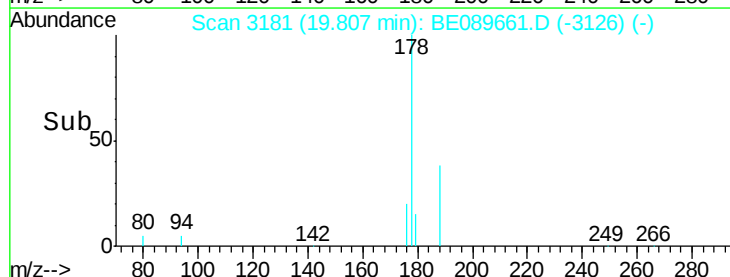
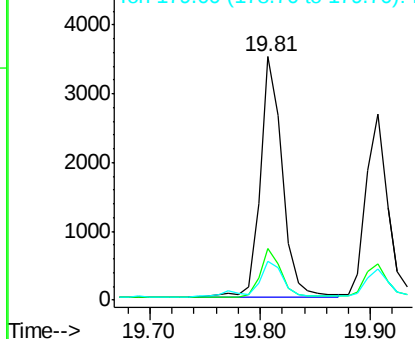


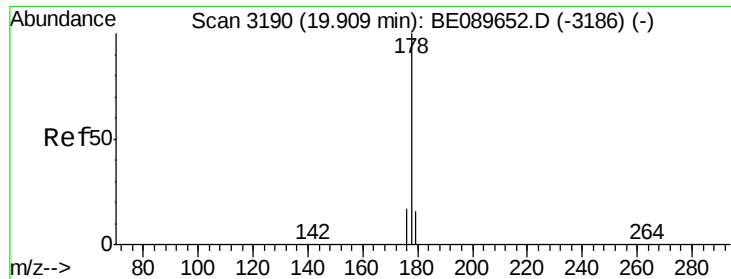
#16
 Phenanthrene
 Concen: 0.15 ng
 RT: 19.81 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: BE089661.D
 Acq: 24 Feb 2015 4:40

Tgt Ion: 178 Resp: 4838
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.3 22.9
 179 17.4 12.3 18.5



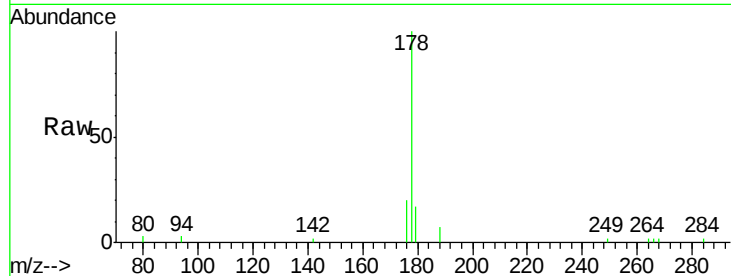
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E



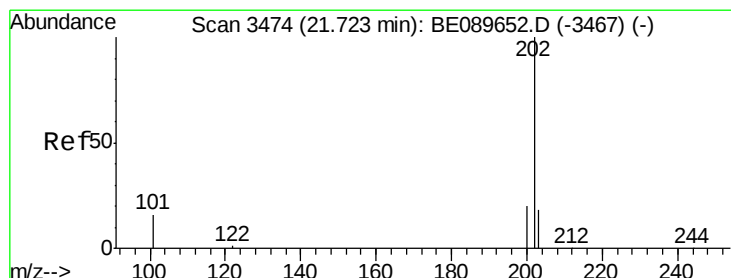
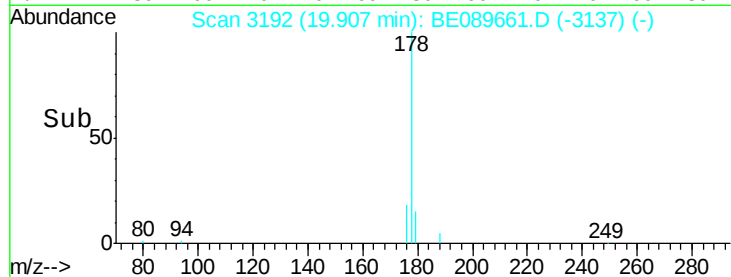
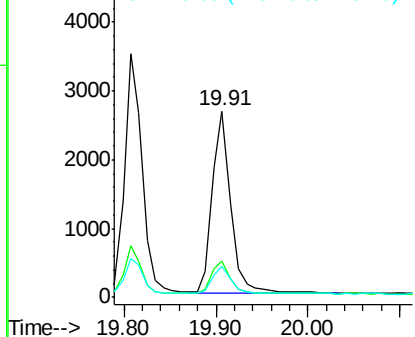


#17
 Anthracene
 Concen: 0.14 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089661.D
 Acq: 24 Feb 2015 4:40

Tot Ion:178 Resp: 3740
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.3 21.5
 179 14.8 12.1 18.1

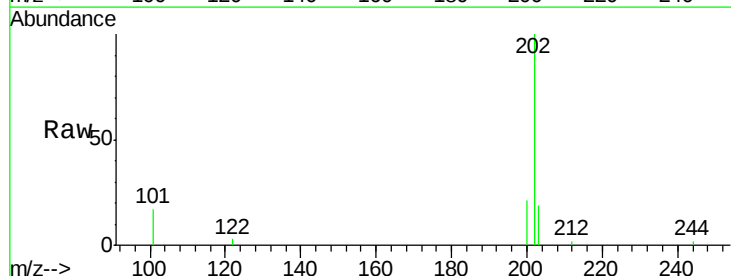


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

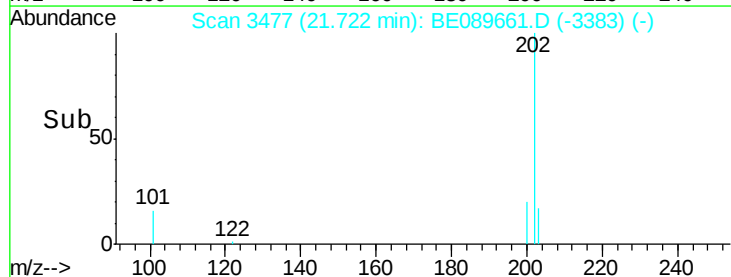
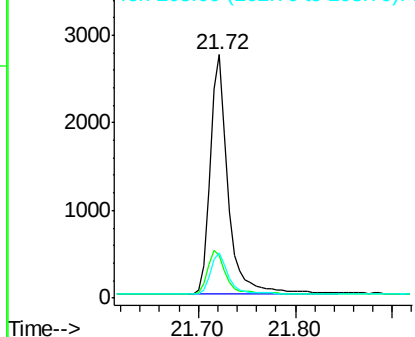


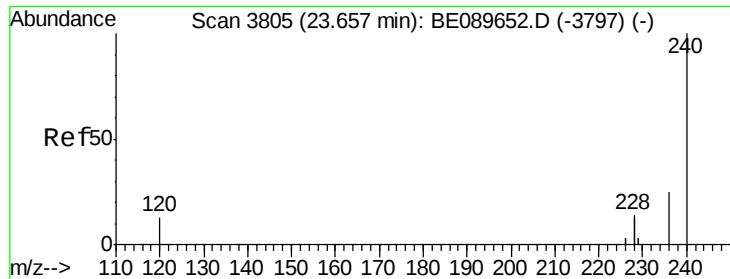
#18
 Fluoranthene
 Concen: 0.13 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089661.D
 Acq: 24 Feb 2015 4:40

Tgt Ion:202 Resp: 3503
 Ion Ratio Lower Upper
 202 100
 101 18.5 14.9 22.3
 203 17.7 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: 23.65 min Scan# 3807

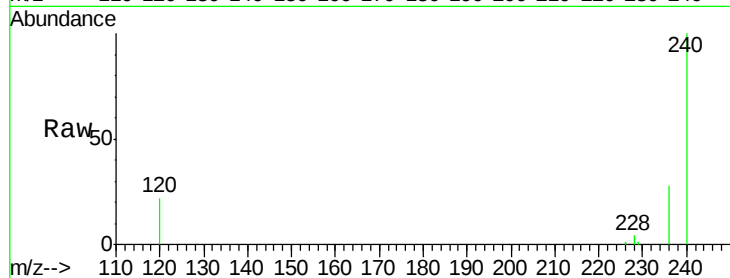
Delta R.T. -0.01 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

Tot Ion:240 Resp: 113250

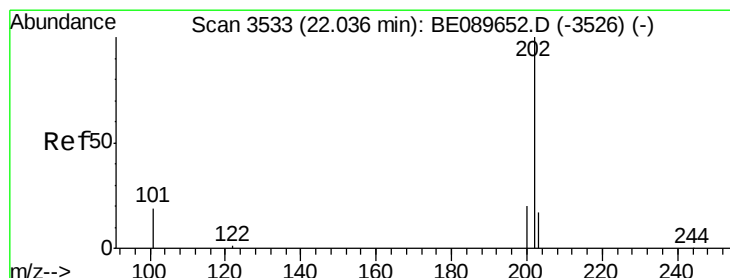
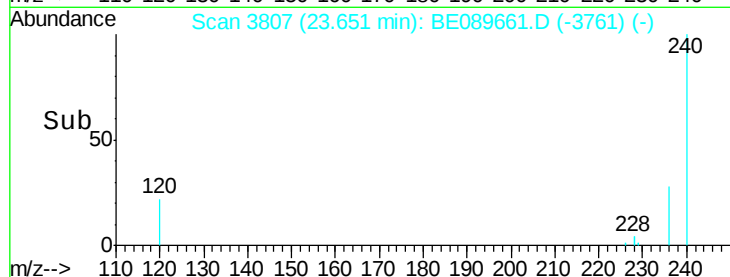
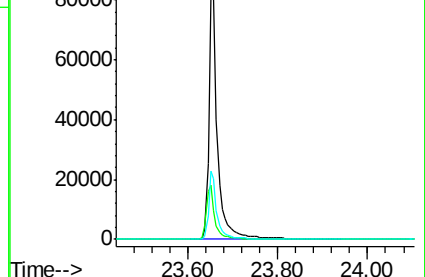
Ion	Ratio	Lower	Upper
240	100		
120	22.1	10.6	15.8#
236	27.8	20.3	30.5



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: 22.03 min Scan# 3536

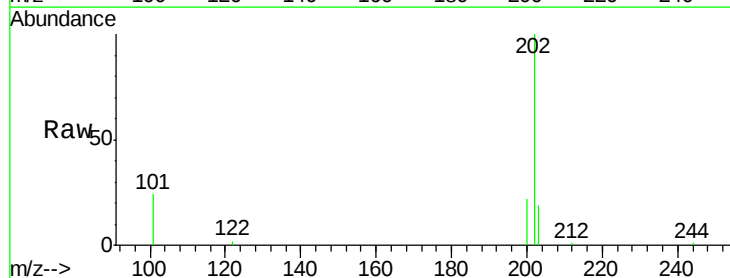
Delta R.T. -0.00 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

Tgt Ion:202 Resp: 3855

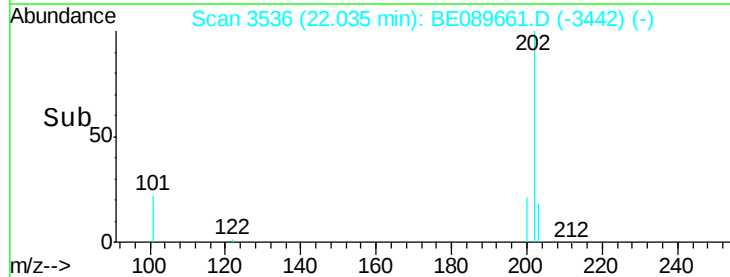
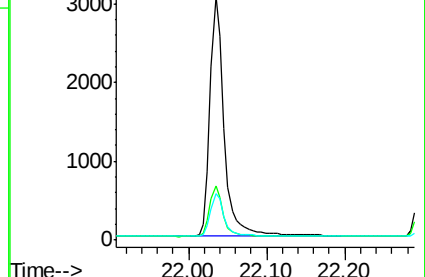
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.5	24.7
203	17.5	13.8	20.6

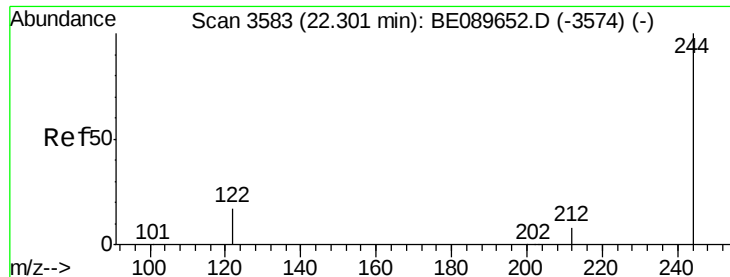


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

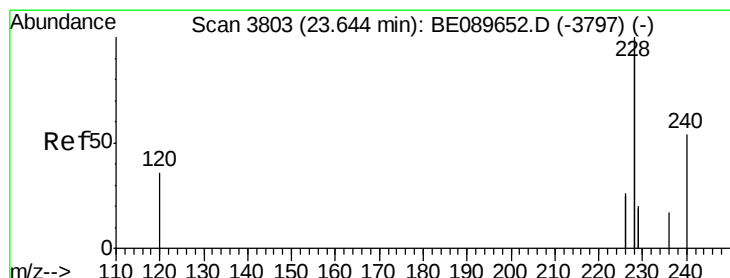
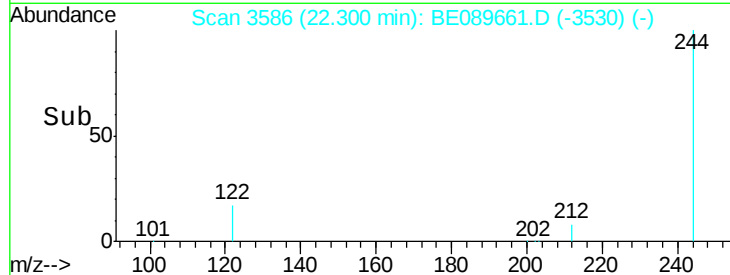
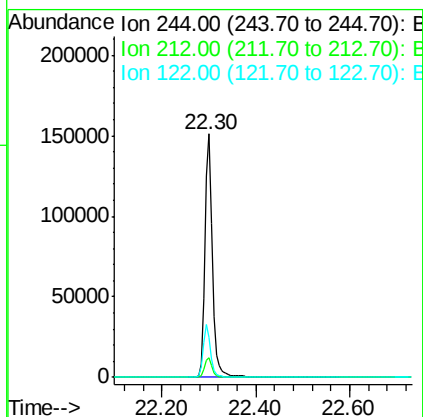
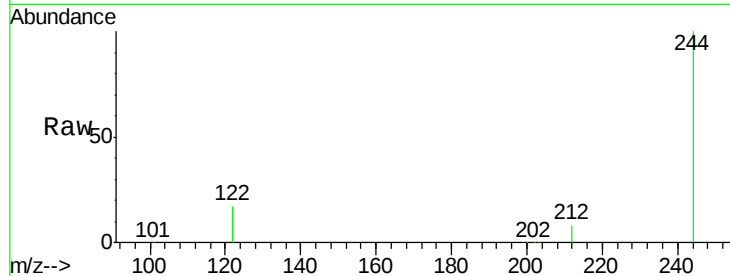
Ion 203.00 (202.70 to 203.70): E





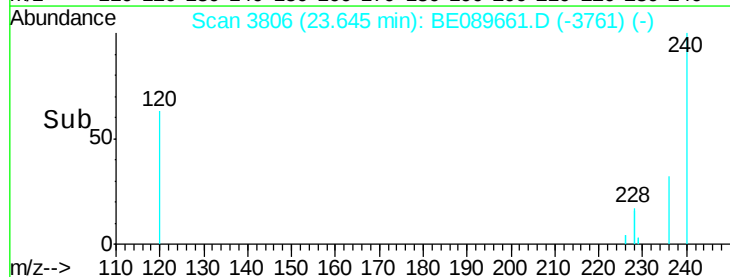
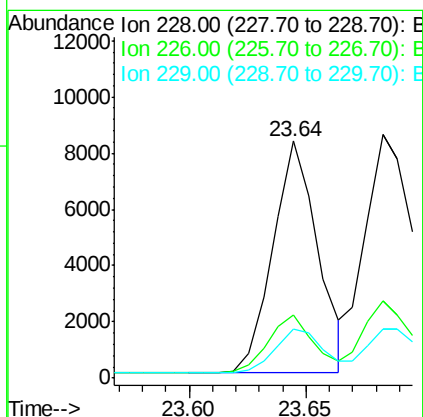
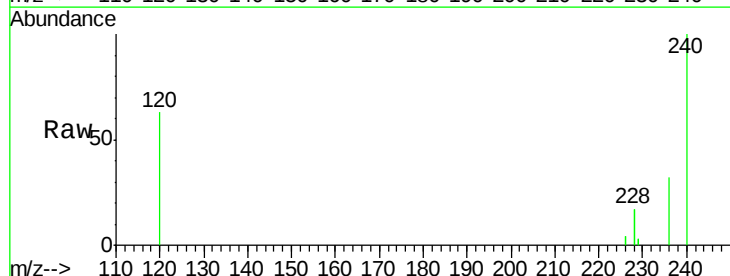
#21
 Terphenyl-d14
 Concen: 10.03 ng
 RT: 22.30 min Scan# 3586
 Delta R.T. -0.00 min
 Lab File: BE089661.D
 Acq: 24 Feb 2015 4:40

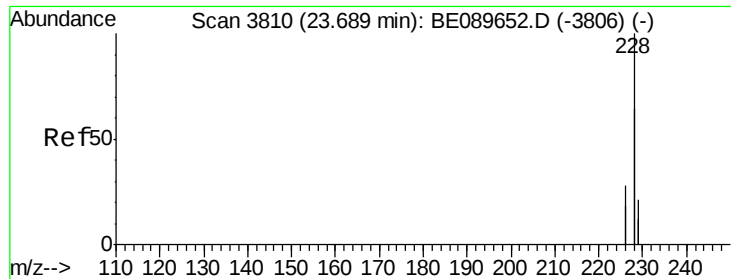
Tot Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.6	10.0
122	16.7	13.7	20.5



#22
 Benzo(a)anthracene
 Concen: 0.14 ng
 RT: 23.64 min Scan# 3806
 Delta R.T. 0.00 min
 Lab File: BE089661.D
 Acq: 24 Feb 2015 4:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	20.9	31.3
229	20.5	15.8	23.6

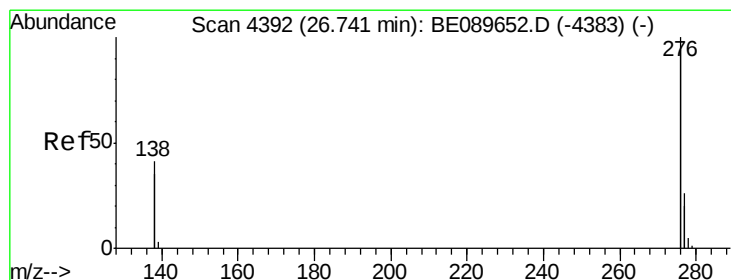
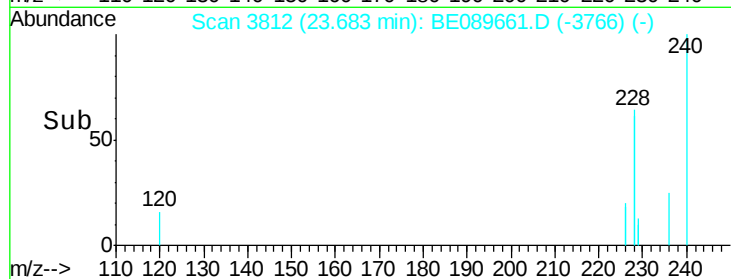
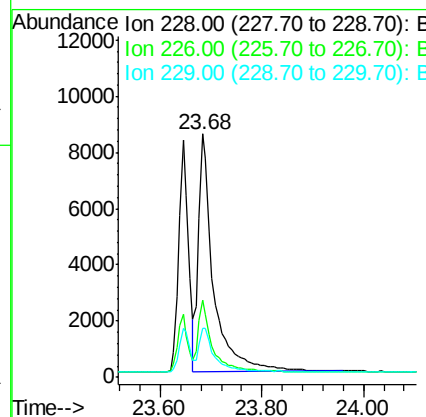
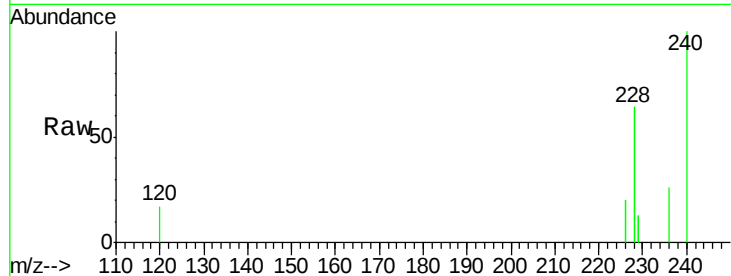




#23
Chrysene
Concen: 0.16 ng
RT: 23.68 min Scan# 3812
Delta R.T. -0.01 min
Lab File: BE089661.D
Acq: 24 Feb 2015 4:40

Tot Ion: 228 Resp: 17622

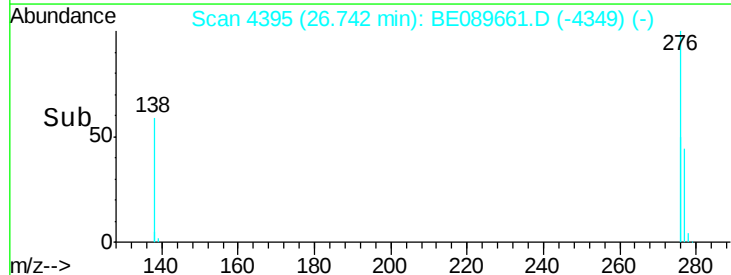
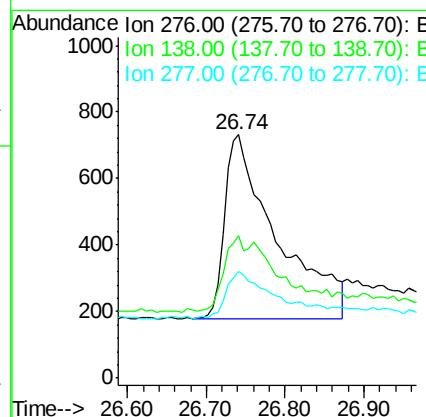
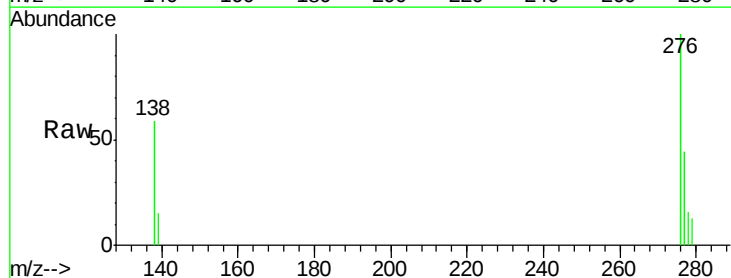
Ion	Ratio	Lower	Upper
228	100		
226	31.8	22.0	33.0
229	20.4	16.6	24.8

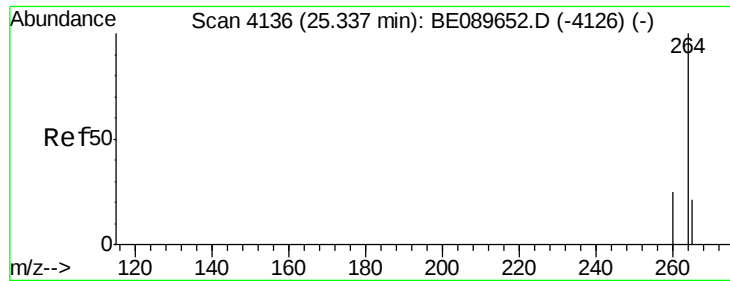


#24
Indeno(1,2,3-cd)pyrene
Concen: 0.39 ng
RT: 26.74 min Scan# 4395
Delta R.T. 0.00 min
Lab File: BE089661.D
Acq: 24 Feb 2015 4:40

Tgt Ion: 276 Resp: 2523

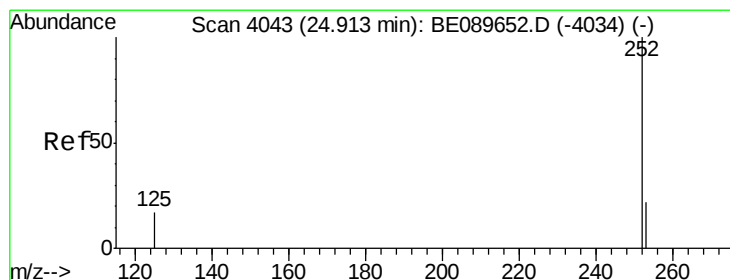
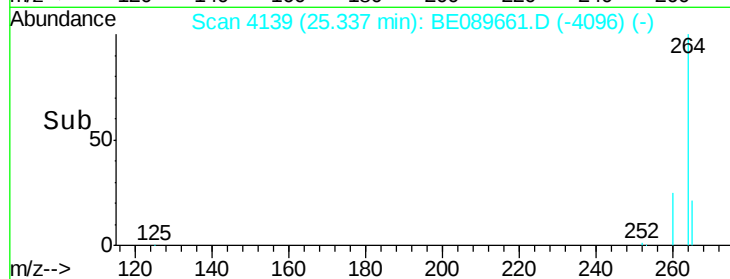
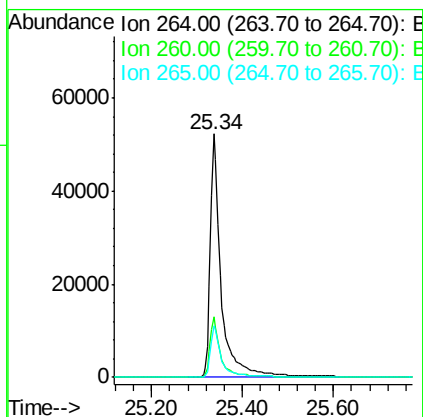
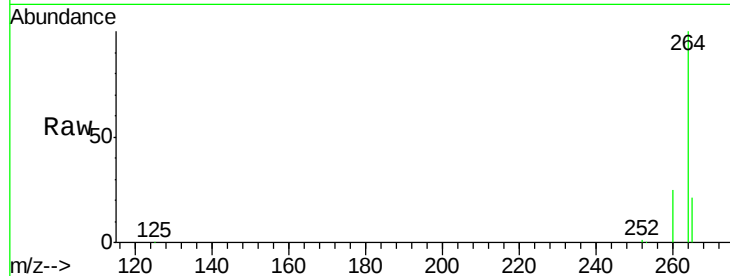
Ion	Ratio	Lower	Upper
276	100		
138	18.5	36.2	54.4#
277	24.0	5.4	8.2#





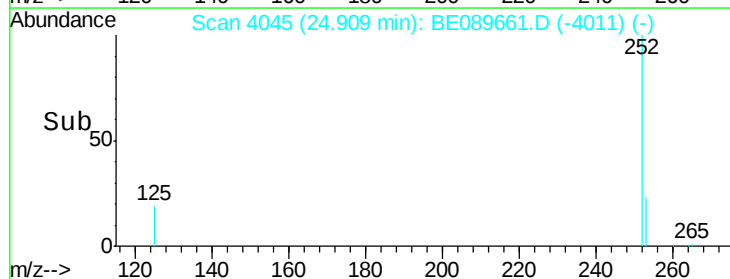
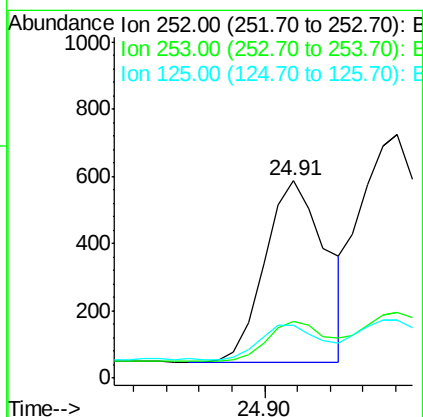
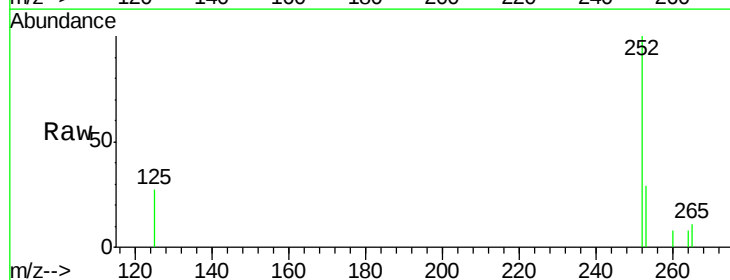
#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4139
Delta R.T. 0.00 min
Lab File: BE089661.D
Acq: 24 Feb 2015 4:40

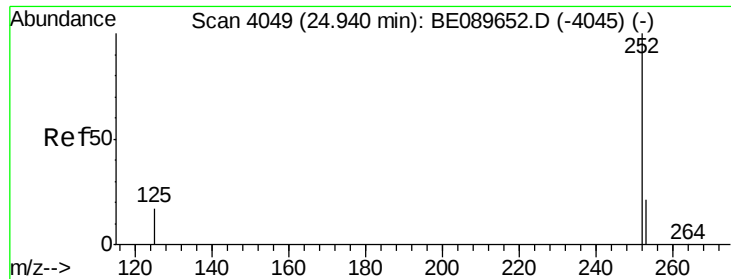
Tot Ion: 264 Resp: 86697
Ion Ratio Lower Upper
264 100
260 24.8 20.0 30.0
265 21.1 16.8 25.2



#26
Benzo(b)fluoranthene
Concen: 0.42 ng
RT: 24.91 min Scan# 4045
Delta R.T. -0.00 min
Lab File: BE089661.D
Acq: 24 Feb 2015 4:40

Tgt Ion: 252 Resp: 699
Ion Ratio Lower Upper
252 100
253 28.8 18.3 27.5#
125 27.0 14.6 22.0#





#27

Benzo(k)fluoranthene

Concen: 0.12 ng m

RT: 24.94 min Scan# 4052

Delta R.T. 0.00 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

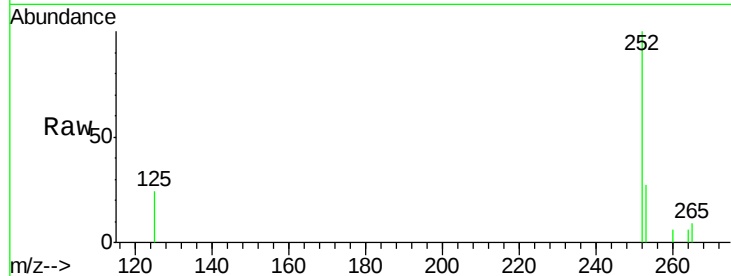
Tot Ion:252 Resp: 2215

Ion Ratio Lower Upper

252 100

253 27.1 17.8 26.8#

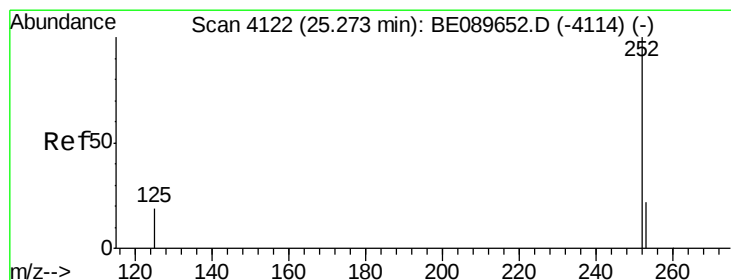
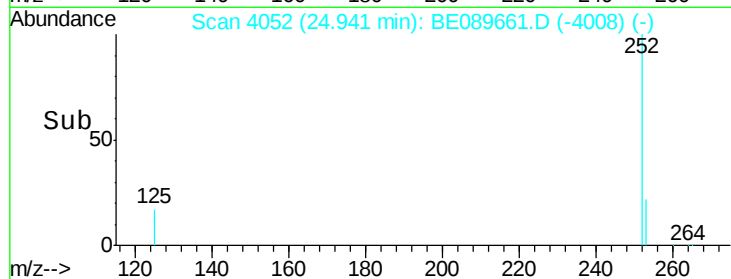
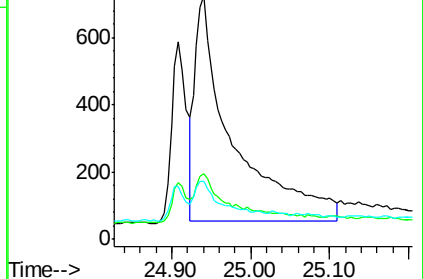
125 23.8 14.3 21.5#



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# 4124

Delta R.T. -0.00 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

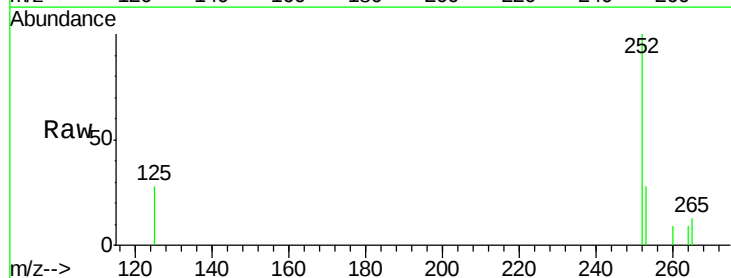
Tgt Ion:252 Resp: 790

Ion Ratio Lower Upper

252 100

253 28.5 18.4 27.6#

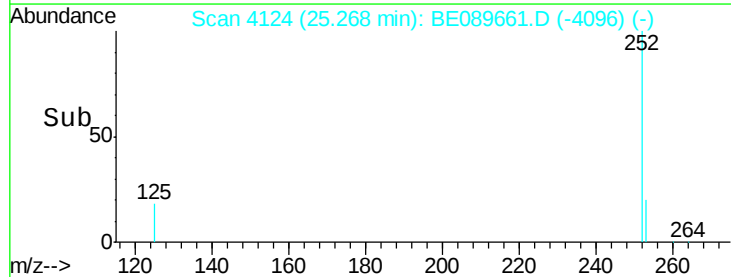
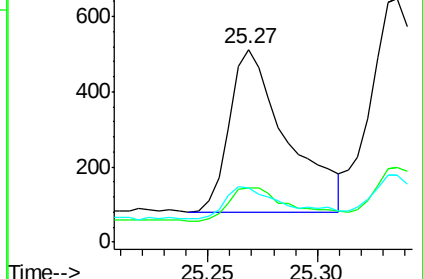
125 27.9 15.9 23.9#

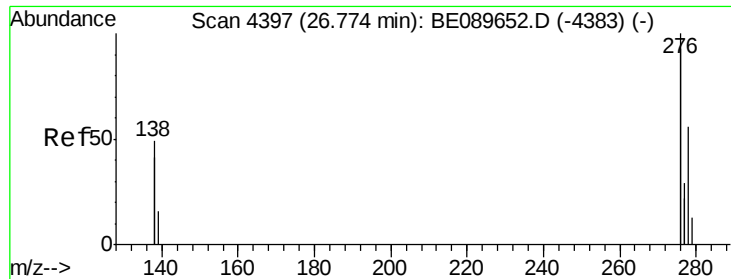


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.39 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.01 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

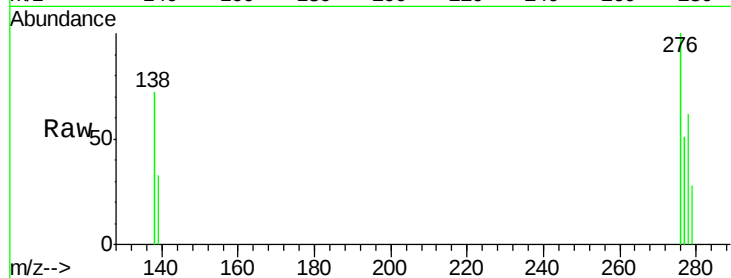
Tot Ion:278 Resp: 385

Ion Ratio Lower Upper

278 100

139 53.3 25.4 38.2#

279 45.5 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

26.77

150

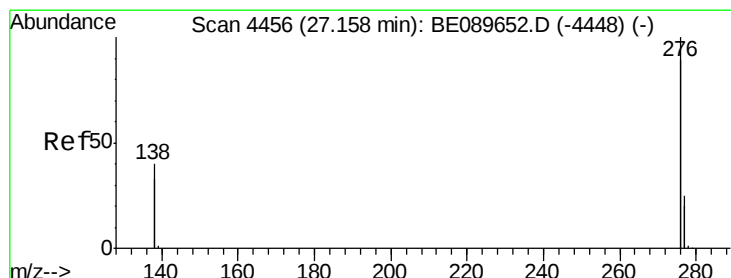
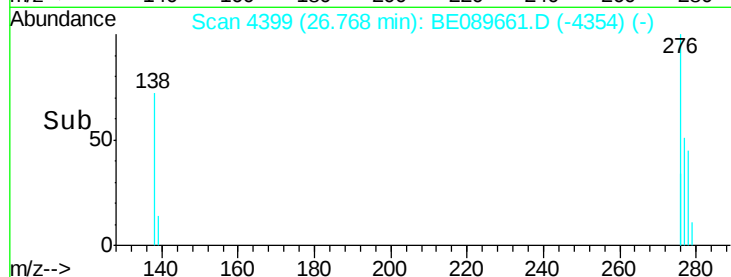
100

50

0

26.70 26.80

Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.27 ng

RT: 27.16 min Scan# 4459

Delta R.T. 0.00 min

Lab File: BE089661.D

Acq: 24 Feb 2015 4:40

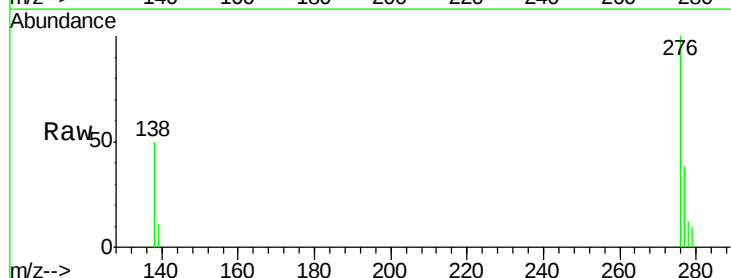
Tgt Ion:276 Resp: 3804

Ion Ratio Lower Upper

276 100

277 37.5 20.2 30.2#

138 50.2 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

27.16

1000

500

0

27.00 27.20 27.40

Time-->

