

## 附錄 (圖譜部分)

Figure 1. Mass spectrum of compound 6.....	229
Figure 2. $^1\text{H}$ -NMR spectrum of compound 6.....	230
Figure 3. $^{13}\text{C}$ -NMR spectrum of compound 6.....	231
Figure 4. Mass spectrum of compound 14.....	232
Figure 5. $^1\text{H}$ -NMR spectrum of compound 14.....	233
Figure 6. $^{13}\text{C}$ -NMR spectrum of compound 14.....	234
Figure 7. Mass spectrum of compound 26.....	235
Figure 8. IR spectrum of compound 26.....	236
Figure 9. $^1\text{H}$ -NMR spectrum of compound 26.....	237
Figure 10. $^{13}\text{C}$ -NMR spectrum of compound 26.....	238
Figure 11. HMQC spectrum of compound 26.....	239
Figure 12. Mass spectrum of compound 46.....	240
Figure 13. IR spectrum of compound 46.....	241
Figure 14. $^1\text{H}$ -NMR spectrum of compound 46.....	242
Figure 15. $^{13}\text{C}$ -NMR spectrum of compound 46.....	243
Figure 16. HMQC spectrum of compound 46.....	244
Figure 17. HMBC spectrum of compound 46.....	245
Figure 18. Mass spectrum of compound 67.....	246

Figure 19. IR spectrum of compound 67.....	247
Figure 20. <sup>1</sup> H-NMR spectrum of compound 67.....	248
Figure 21. <sup>13</sup> C-NMR spectrum of compound 67.....	249
Figure 22. HMQC spectrum of compound 67.....	250
Figure 23. HMBC spectrum of compound 67.....	251
Figure 24. Mass spectrum of compound 81.....	252
Figure 25. IR spectrum of compound 81.....	253
Figure 26. <sup>1</sup> H-NMR spectrum of compound 81.....	254
Figure 27. <sup>13</sup> C-NMR spectrum of compound 81.....	255
Figure 28. HMQC spectrum of compound 81.....	256
Figure 29. HMBC spectrum of compound 81.....	257
Figure 30. Mass spectrum of compound 111.....	258
Figure 31. IR spectrum of compound 111.....	259
Figure 32. <sup>1</sup> H-NMR spectrum of compound 111.....	260
Figure 33. <sup>13</sup> C-NMR spectrum of compound 111.....	261
Figure 34. HMQC spectrum of compound 111.....	262
Figure 35. HMBC spectrum of compound 111.....	263
Figure 36. Mass spectrum of compound 101.....	264
Figure 37. IR spectrum of compound 101.....	265

Figure 38. $^1\text{H}$ -NMR spectrum of compound 101.....	266
Figure 39. $^{13}\text{C}$ -NMR spectrum of compound 101.....	267
Figure 40. HMQC spectrum of compound 101.....	268
Figure 41. HMBC spectrum of compound 101.....	269
Figure 42. Mass spectrum of compound 112.....	270
Figure 43. IR spectrum of compound 112.....	271
Figure 44. $^1\text{H}$ -NMR spectrum of compound 112.....	272
Figure 45. $^{13}\text{C}$ -NMR spectrum of compound 112.....	273
Figure 46. HMQC spectrum of compound 112.....	274