

4/6/2010 12:24:10 PM

1) Heat from 50.00°C to 900.00°C at 20.00°C/min

Complex 1

Fig.7. TGA/DTA curve of complex $[\text{Ni}(\text{H}_2\text{nsh})(\text{H}_2\text{O})_2]$ (1)

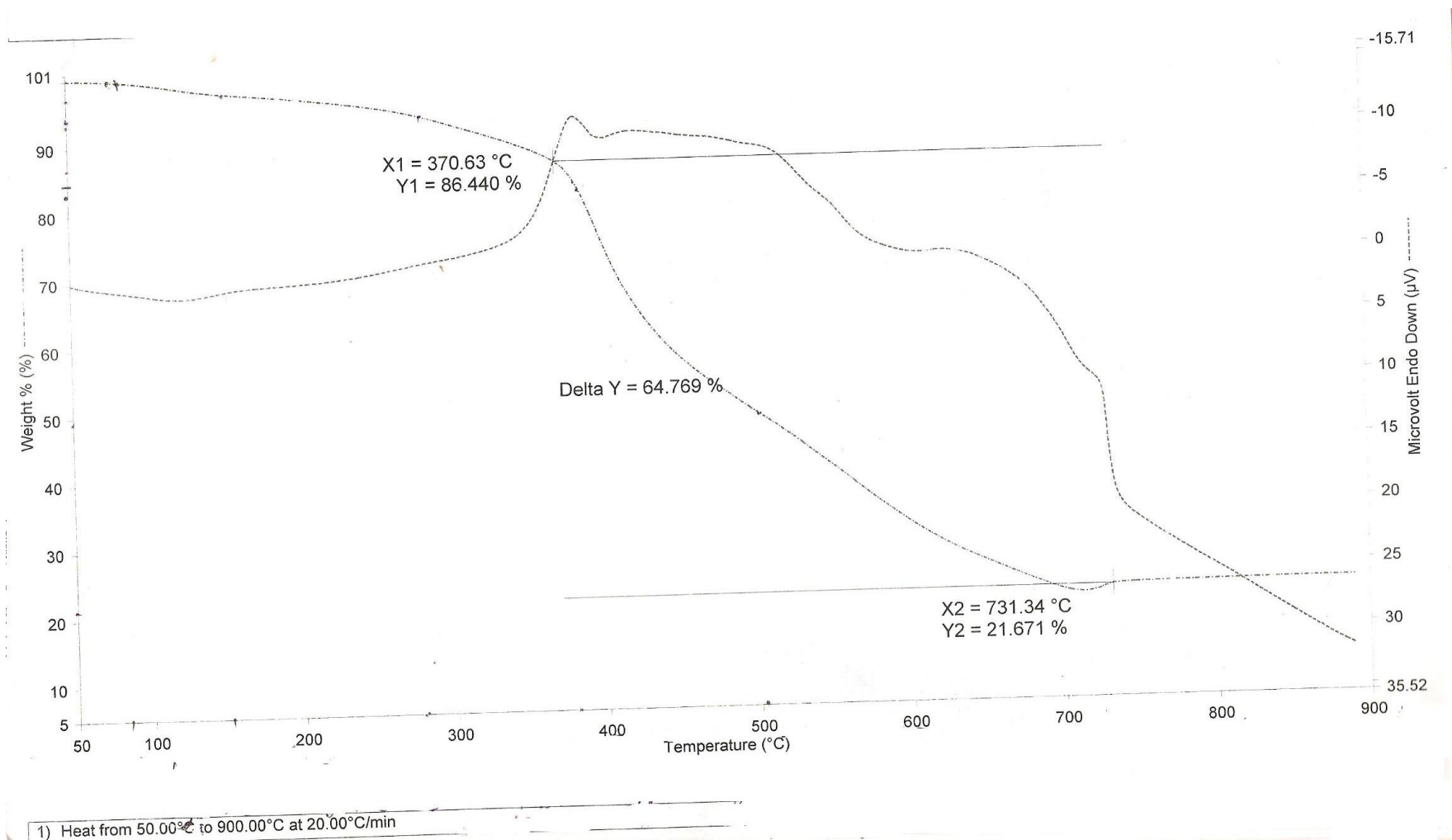


Fig.8. TGA/DTA curve of complex $[\text{Ni}_2(\text{H}_2\text{nsh})(\text{H}_2\text{O})_4]\cdot\text{H}_2\text{O}$ (6)

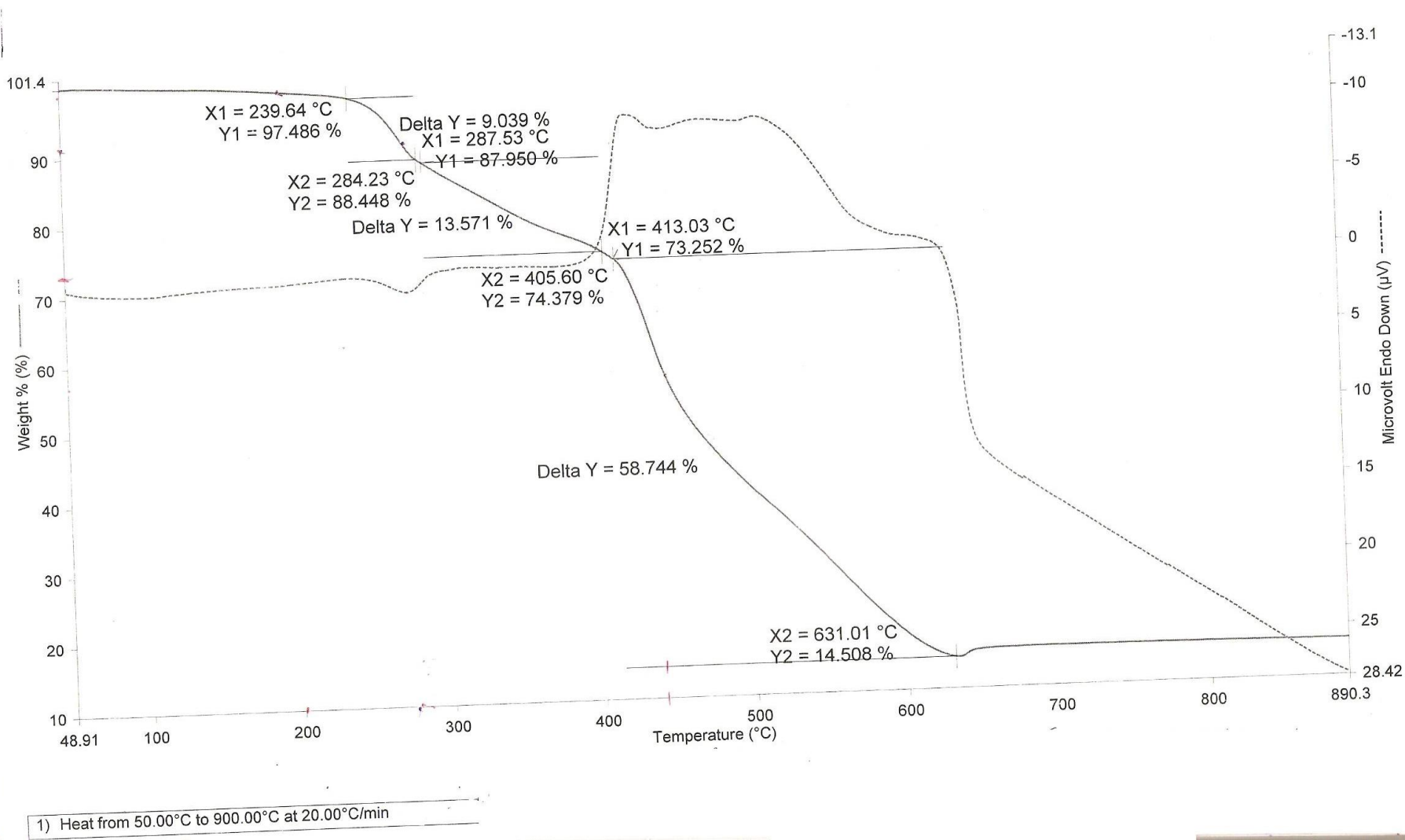


Fig.9. TGA/DTA curve of complex $[\text{Ni}_2(\text{nsh})(\text{py})_4] \cdot 4\text{H}_2\text{O}$ (7)

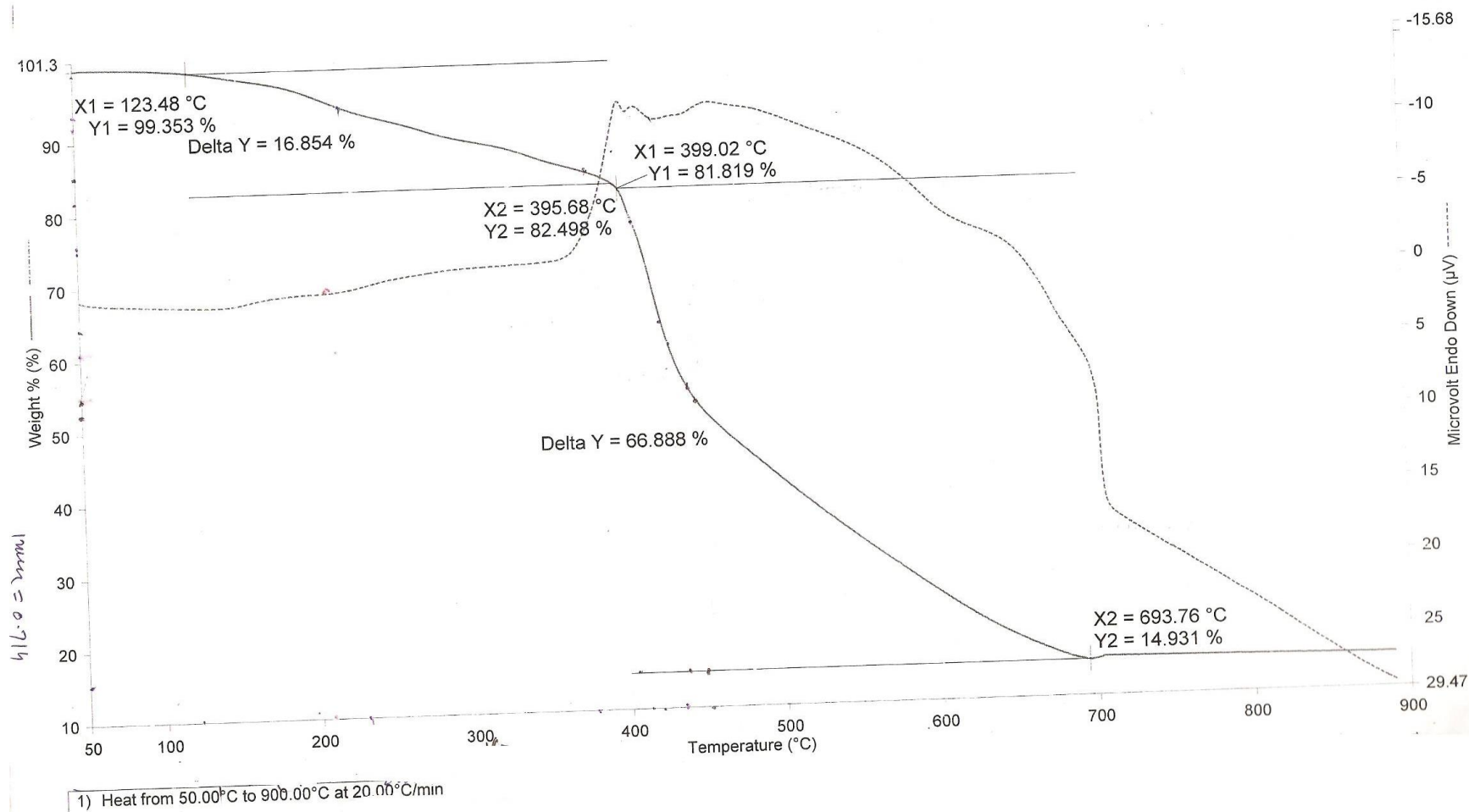


Fig.10. TGA/DTA curve of complex $[\text{Ni}_2(\text{nsh})(2\text{-pic})_4]\cdot 4\text{H}_2\text{O}$ (8)

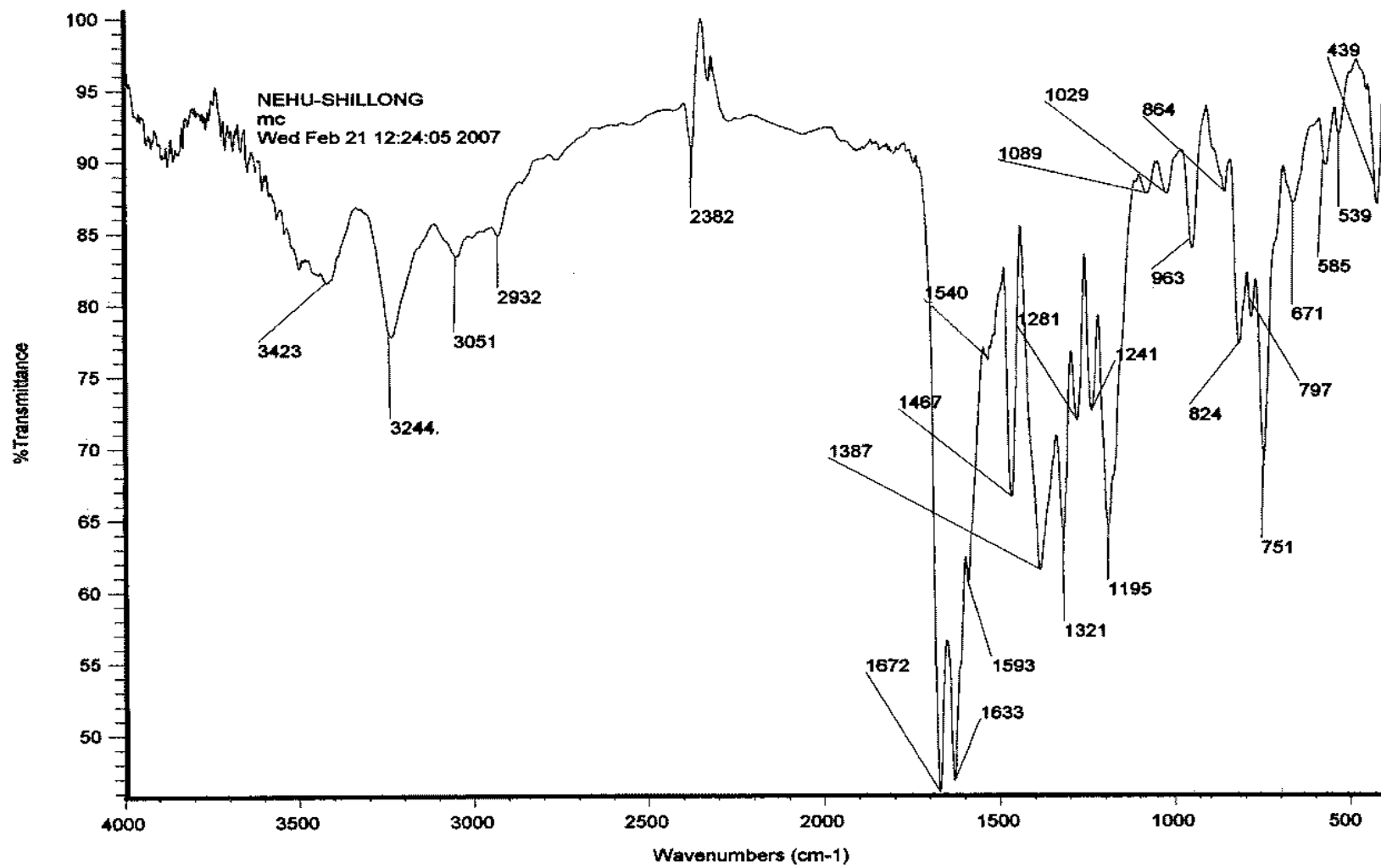
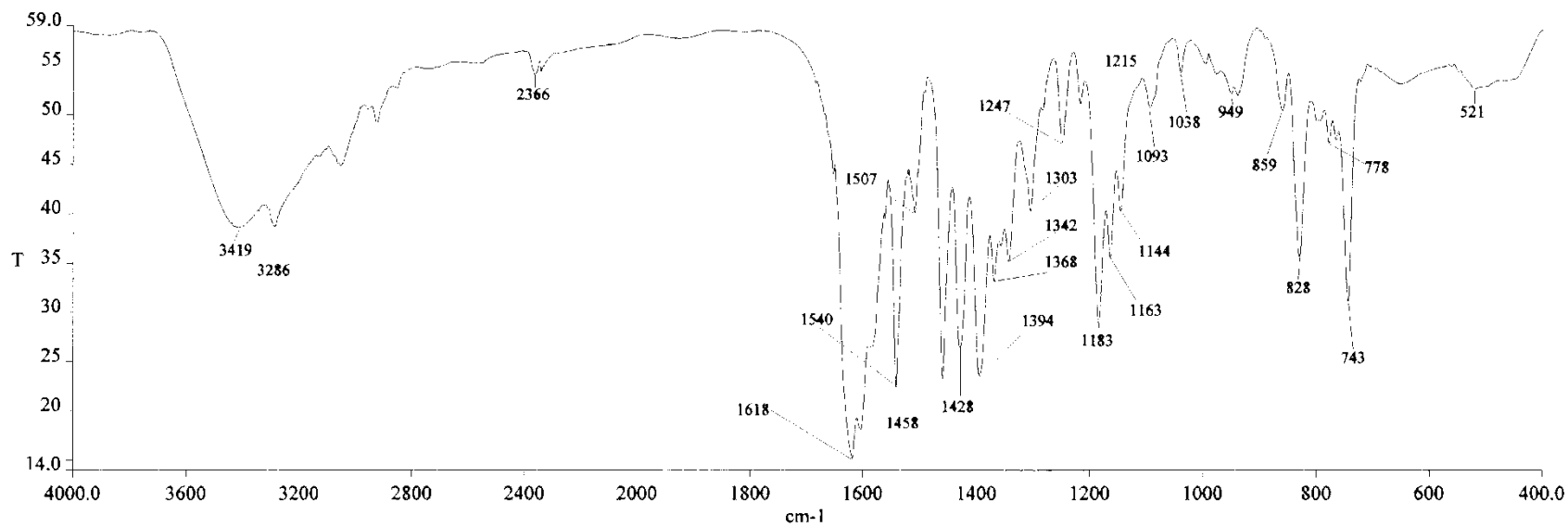


Fig. S1 Infrared spectrum of bis(2-hydroxy-1-naphthaldehyde)succinoyldihydrazone (H_4nsh) in KBr.

Time: 3:52:29 PM

Dept Of Chemistry
NEHU, Shilong

Date: 6/6/2005



Spectrum Name: mc-61.sp

Instrument Model: Spectrum BX Series

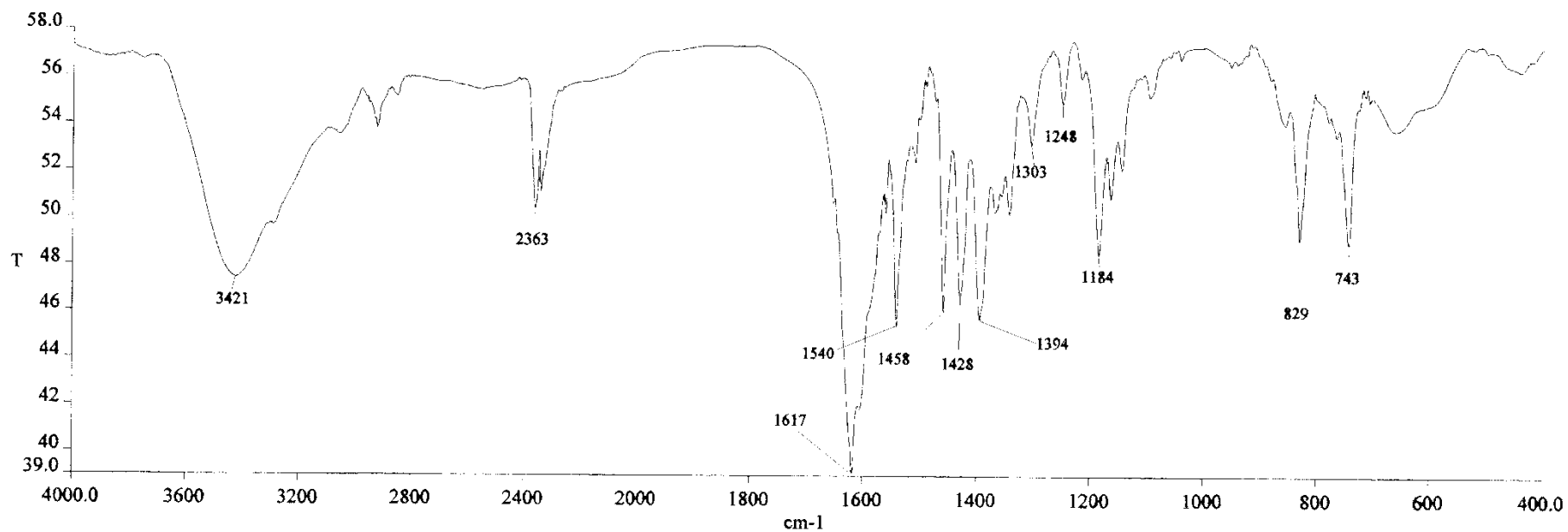
Resolution: 4 cm-1

Fig. S2 Infrared spectrum of $[\text{Ni}(\text{H}_2\text{nsh})(\text{py})_2] \cdot \text{H}_2\text{O} (2)$ in KBr.

Time: 3:58:00 PM

Dept Of Chemistry
NEHU, Shilong

Date: 6/6/2005



Spectrum Name: mc-62.sp

Instrument Model: Spectrum BX Series

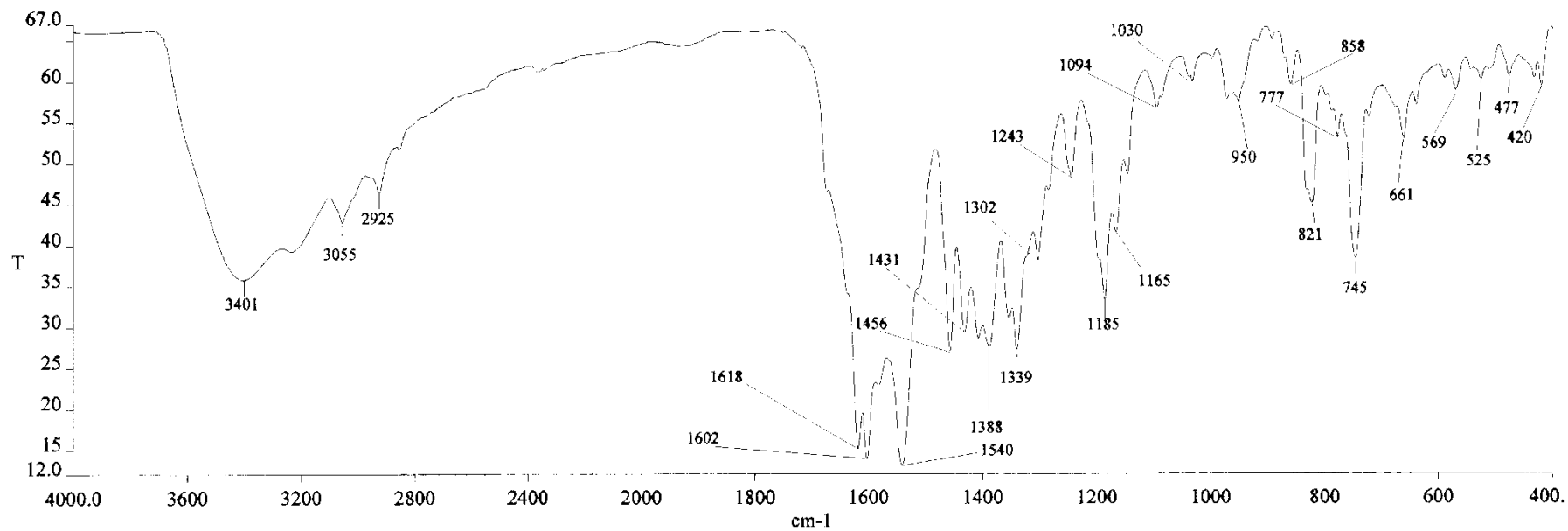
Resolution: 4 cm-1

Fig.S3 Infrared spectrum of $[\text{Ni}(\text{H}_2\text{nsh})(2\text{-pic})_2]$ (3) in KBr.

Time: 12:08:51 PM

Dept Of Chemistry
NEHU, Shilong

Date: 9/29/2005



Spectrum Name: mc-45a.sp

Instrument Model: Spectrum BX Series

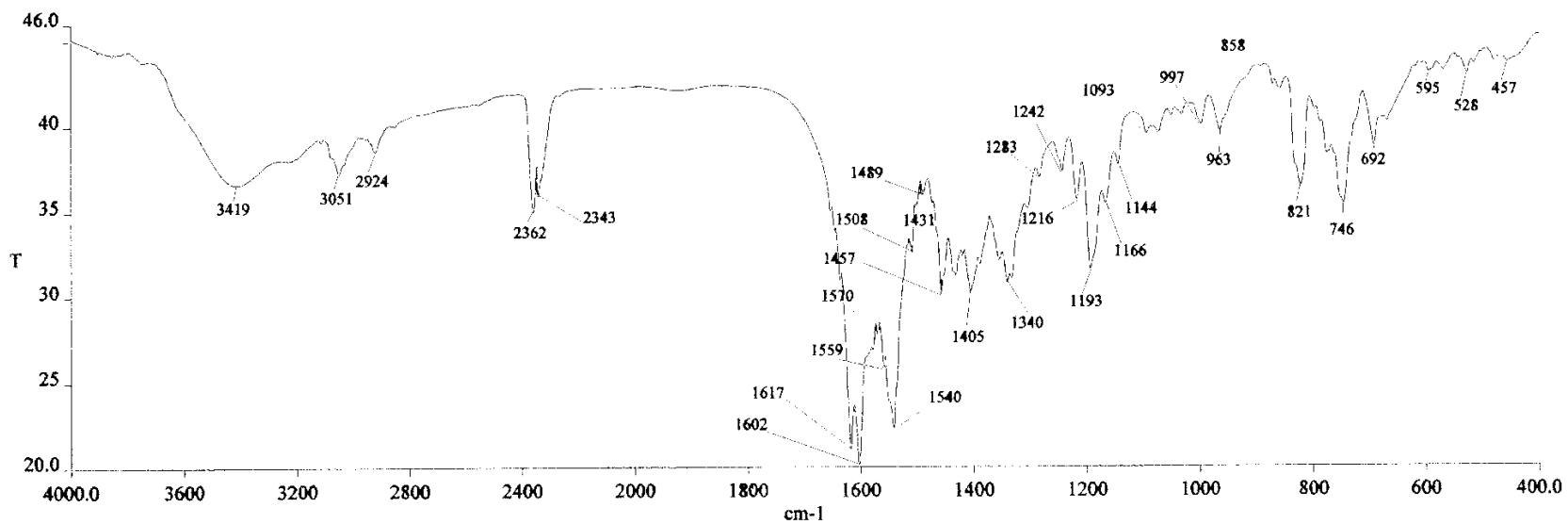
Resolution: 4 cm-1

Fig. S4 Infrared spectrum of $[\text{Ni}_2(\text{nsh})(\text{H}_2\text{O})_4]$ (6) in KBr.

Time: 8:14:06 AM

Dept Of Chemistry
NEHU, Shilong

Date: 5/27/2008



Spectrum Name: mc-75.sp

Instrument Model: Spectrum BX Series

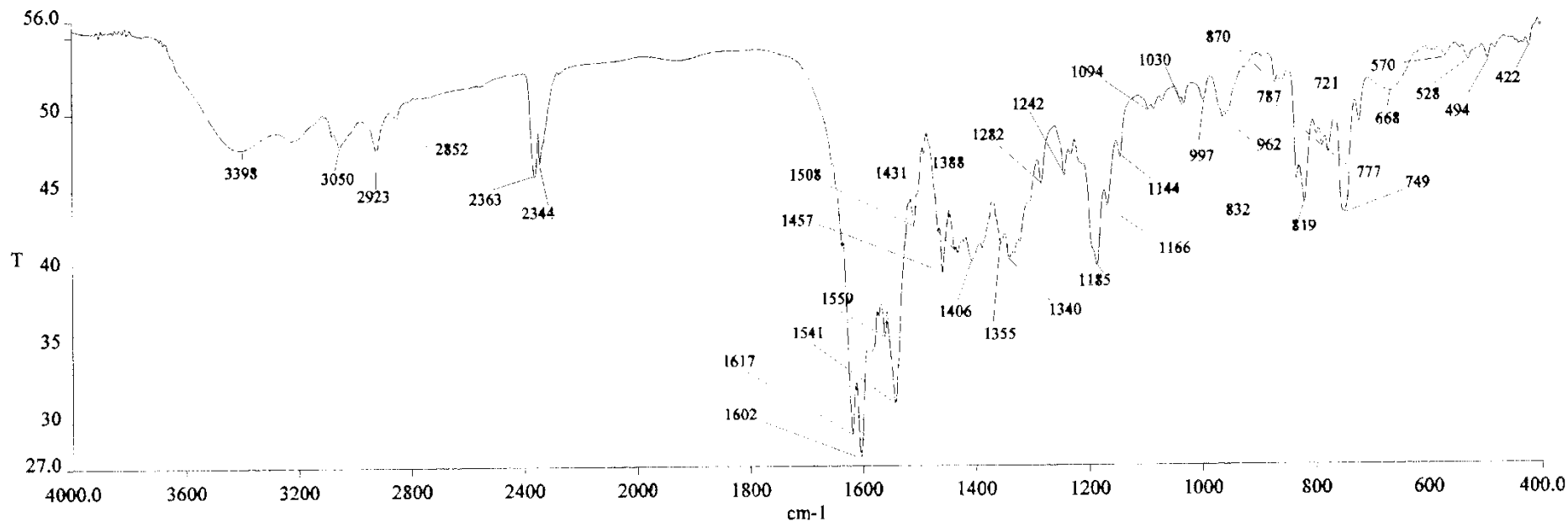
Resolution: 4 cm⁻¹

Fig. S5 Infrared spectrum of $[\text{Ni}_2(\text{nsh})(\text{py})_4] \cdot 4\text{H}_2\text{O}$ (7) in KBr.

Time: 9:09:40 AM

Dept Of Chemistry
NEHU, Shilong

Date: 5/28/2008



Spectrum Name: mc-78.sp

Instrument Model: Spectrum BX Series

Resolution: 4 cm-1

Fig. S6 Infrared spectrum of $[\text{Ni}_2(\text{nsh})(4\text{-pic})_4] \cdot 4\text{H}_2\text{O}(10)$ in KBr.