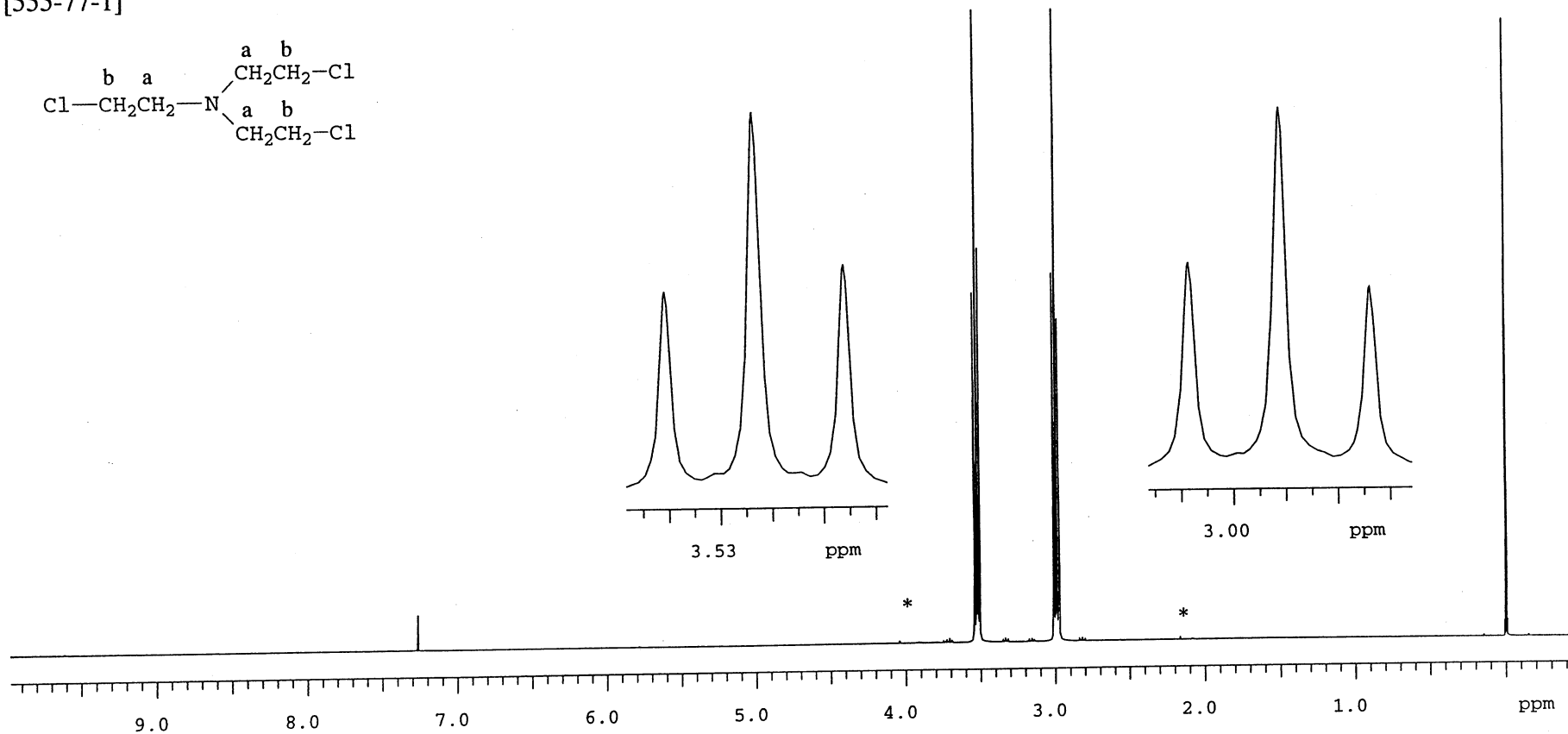
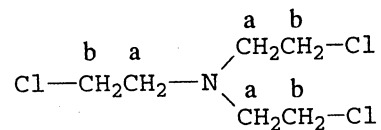


<sup>1</sup>H NMR

**HN-3 (Tris(2-chloroethyl)amine)**

[555-77-1]



Solvent: CDCl<sub>3</sub>  
Concentration: 10 µl/ 0.8 ml  
Reference substance: TMS  
Sample temperature: 30.0 °C  
Resonance frequency: 400.132 MHz  
Spectral width: 5102.0 Hz  
Data points (FID; spec.): 64 k; 64 k

Flip angle; Pulse width: 45 °; 6.6 µs  
No. of scans; Rep. time: 32; 22.4 s  
Weighting; Line broad.: exp.; 0.1 Hz  
Spectral resolution: 0.2 Hz (TMS)  
Instrument: Bruker AMX-400  
Source reference: 980107-4249  
Signature: *Markku Mesilaakso*  
Markku Mesilaakso

nuc.	δ [ppm]	J [Hz]
a	2.991	-10.9 (a'); 7.8 (b); 6.1 (b')
b	3.523	-14.1 (b')

Iterative analysis