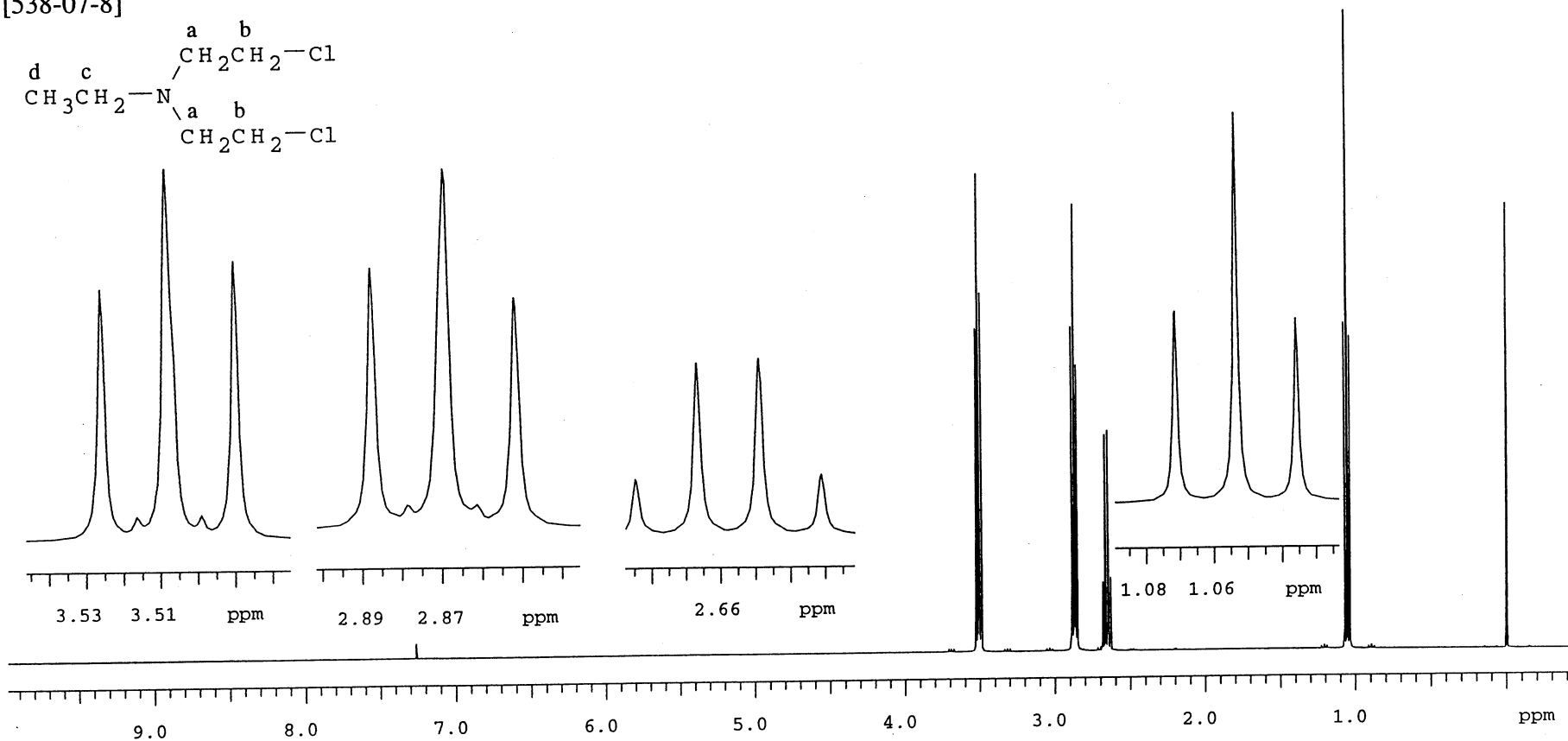
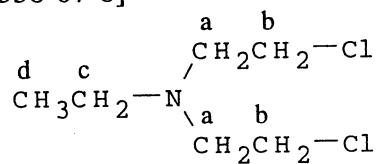


¹H NMR

HN-1 (Bis(2-chloroethyl)ethylamine)

[538-07-8]



Solvent:	CDCl ₃	Flip angle; Pulse width:	45 °; 6.1 μs	nuc.	δ [ppm]	J [Hz]
Concentration:	30 μl/0.8 ml	No. of scans; Rep. time:	32; 23.3 s	a	2.870	-10.8 (a'); 8.5 (b); 5.9 (b')
Reference substance:	TMS	Weighting; Line broad.:	exp.; 0.1 Hz	b	3.508	-13.8 (b')
Sample temperature:	30.0 °C	Spectral resolution:	0.2 Hz (TMS)	c	2.658	7.1 (d)
Resonance frequency:	400.132 MHz	Instrument:	Bruker AMX-400	d	1.054	
Spectral width:	4504.5 Hz	Source reference:	971218-4245			
Data points (FID; spec.):	64 k; 64 k	Signature:	<i>Markku Mesilaakso</i>			Iterative analysis
			Markku Mesilaakso			

OPCW Code:05-3-0086(p/11)