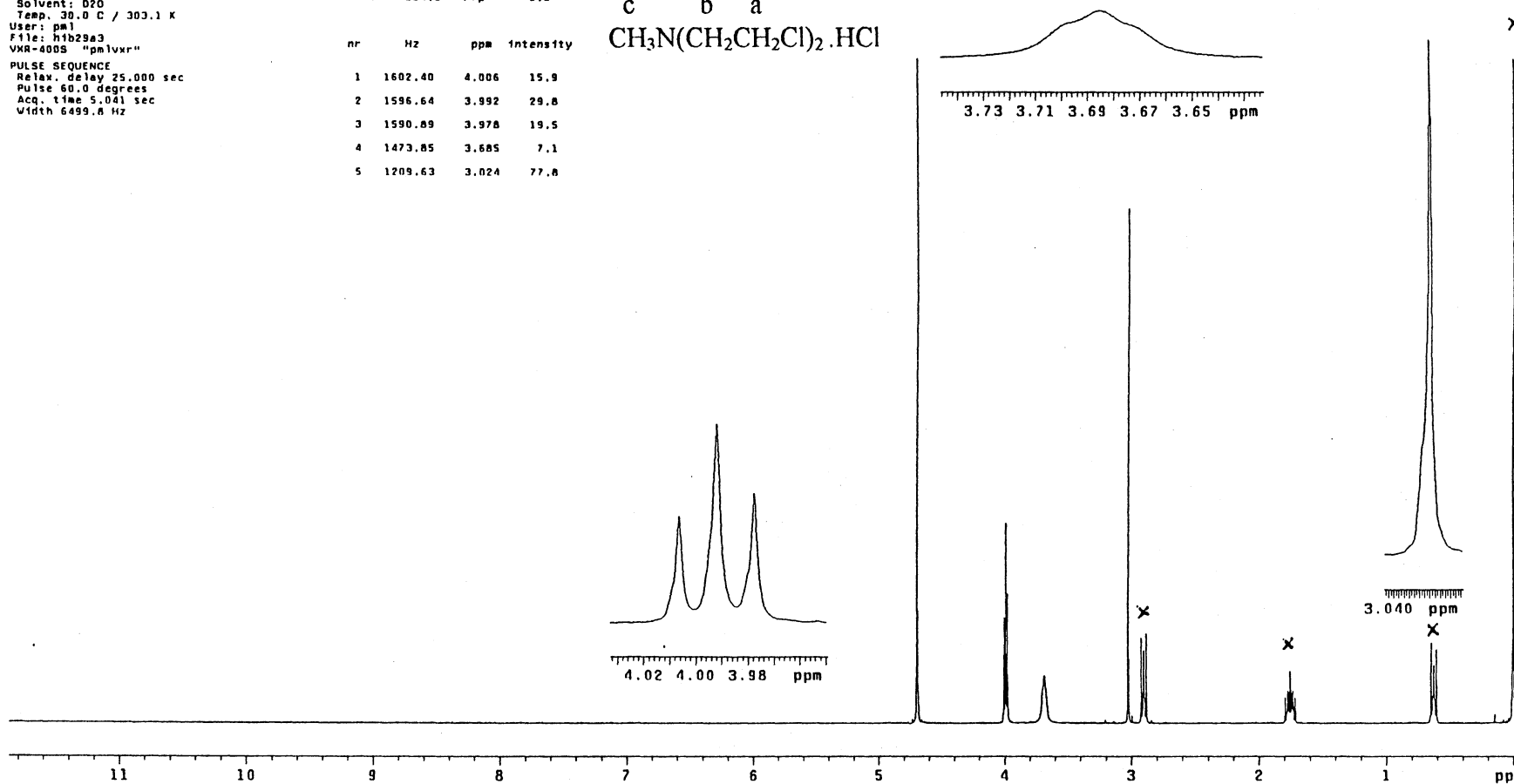
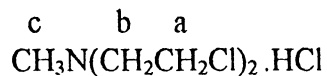


H-NMR h1b29a3  
 95080M10 in D2O  
 213194534 jrn.271;115/200  
 Solvent: D2O  
 Temp. 30.0 C / 303.1 K  
 User: pm1  
 File: h1b29a3  
 VXR-400S "pmlvvr"  
 PULSE SEQUENCE  
 Relax. delay 25.000 sec  
 Pulse 60.0 degrees  
 Acq. time 5.041 sec  
 Width 6499.8 Hz

SPECTRAL LINES for th=5.2				
nr	Hz	ppm	intensity	
1	1602.40	4.006	15.9	
2	1596.64	3.992	29.8	
3	1590.89	3.978	19.5	
4	1473.85	3.685	7.1	
5	1209.63	3.024	77.8	



Bis(2-chloroethyl) methylamine hydrochloride  
 CAS 55-86-7

Nucleus :  $^1\text{H}$   
 Frequency : 400.0 MHz  
 Concentration : ca. 17 mg/0.7 ml D<sub>2</sub>O (pH 1)  
 Reference DSS internal 0.00 ppm. Res. : 0.4 Hz (DSS)  
 Instrument : Varian VXR 400S

Temperature : 30 °C  
 Spectral width : 6499.8 Hz  
 Data point (FID) : 64 K  
 Pulse angle : 16.5  $\mu\text{s}$  (60°)  
 Number of pulses : 64  
 Repetition time : 30.0 s  
 Line broadening : not used  
 Data points (spec) : 64 K

a: 3.99 ppm J(ab) : 5.8 Hz x = DSS  
 b: 3.69 ppm  
 c: 3.02 ppm