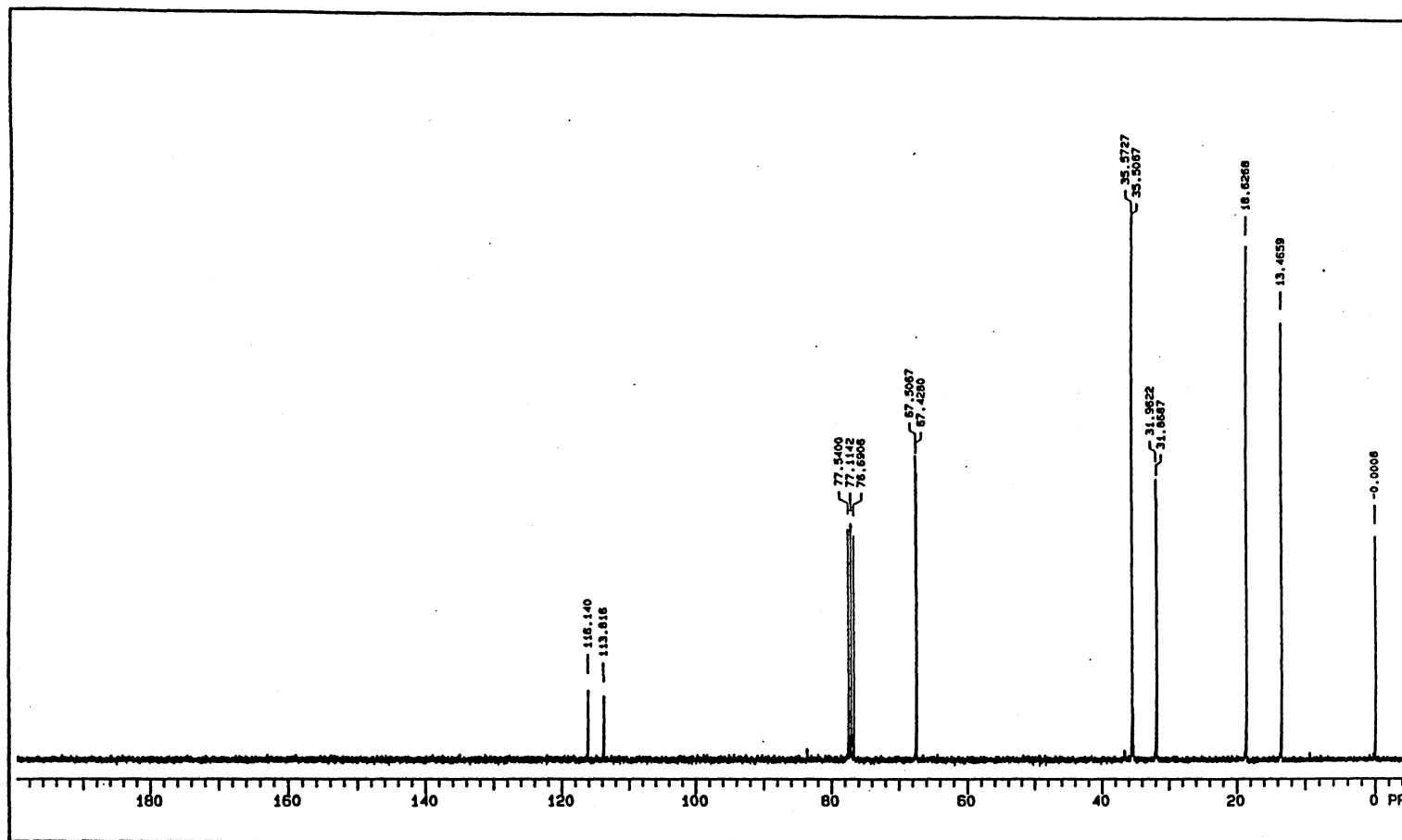
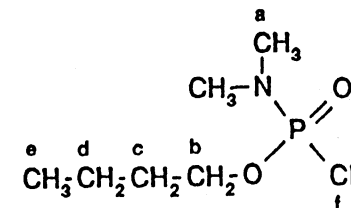


## Butyl N,N-dimethylphosphoramidocyanidate

[ ]

 $^{13}\text{C}\{\text{H}\}$ -NMR

nuc.	$\delta$ [ppm]
a	35.54
b	67.47
c	31.91
d	18.63
e	13.47
f	114.98

J(a,P)	5.0 Hz
J(b,P)	5.9 Hz
J(c,P)	7.0 Hz
J(f,P)	175.3 Hz

Res. freq. 75.429 MHz  
 Solvent:  $\text{CDCl}_3$   
 Temperature:  $24^\circ\text{C}$   
 Concentration: approx 100mg/ml  
 Reference: TMS (internal)

Spectral width: 16502 Hz  
 Data points (FID): 54080  
 Data points (spec.): 32K  
 Pulse width: 5.6  $\mu\text{s}$  ( $38^\circ$ )  
 Number of scans: 2263

Rep.time.: 1.64 s  
 Line broad.: exp., 0.5 Hz  
 Resolution: 0.80 Hz (TMS)  
 Instrument: Varian VXR-300  
 Filename: