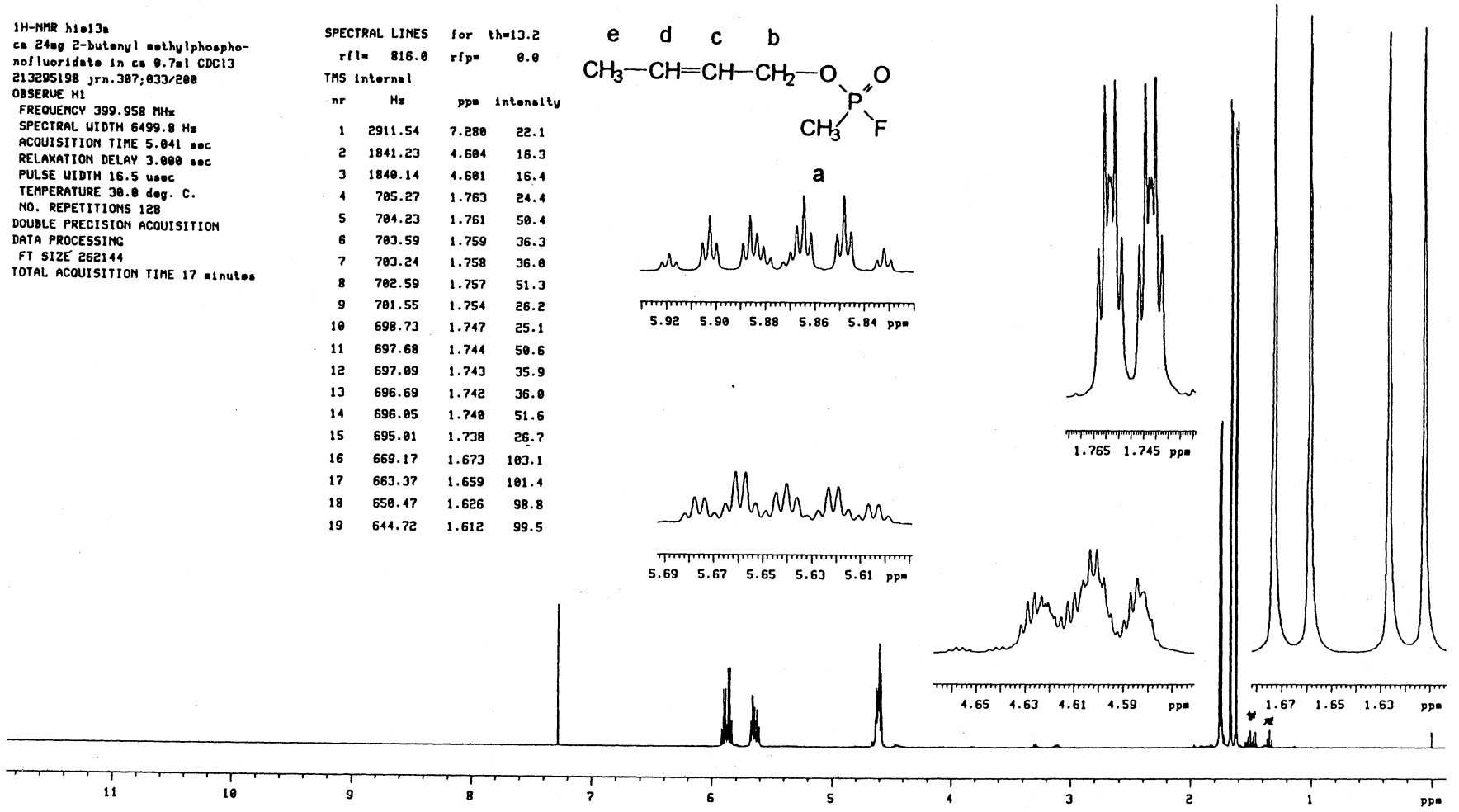

2-Butenyl methylphosphonofluoridate (crotyl sarin)
CAS 138780-00-4

Nucleus :	^{1}H
Frequency :	400.0 MHz
Concentration :	ca. 24 mg/0.7 ml $CDCl_3$
Reference TMS internal. Resolution :	0.4 Hz (TMS)
Instrument :	Varian VXR 400S

Temperature :	30 °C
Spectral width :	6499.8 Hz
Data point (FID) :	64 K
Pulse angle :	16.5 µs (60°)
Number of pulses :	128
Repetition time :	8.0 s
Line broadening :	not used
Data points (spec) :	256 K

a:	1.64 ppm	J(bc) :	6.6 Hz	J(aP) :	18.7 Hz
b:	4.60 ppm	J(cd):	15.3 Hz	J(bP) :	9.1 Hz
c:	5.64 ppm	J(de):	6.6 Hz	J(b'P) :	10.1 Hz
d:	5.87 ppm	J(bd):	1.0 Hz	J(aF):	5.8 Hz
e:	1.75 ppm	J(ce):	1.6 Hz		

OPCW Code:6-3-235 (p1/1)