

1H-NMR h1122a
 cyclopentylthiophosarin
 in ca 0.7ml CDCl3
 214195126.006;Jrn.342;146/200
 Solvent: CDCl3
 Temp: 30.0 C / 303.1 K
 User: pal
 File: h1122a
 VXR-400S "palvvr"
 PULSE SEQUENCE
 Relax. delay 3.000 sec
 Pulse 60.0 degrees
 Acq. time 5.041 sec
 Width 6499.8 Hz
 48 repetitions
 OBSERVE M1, 399.9551738 MHz
 DATA PROCESSING
 FT size 262144
 Total time 6 minutes

SPECTRAL LINES for th=2.0

rfl= 805.2 rfp= 0.0

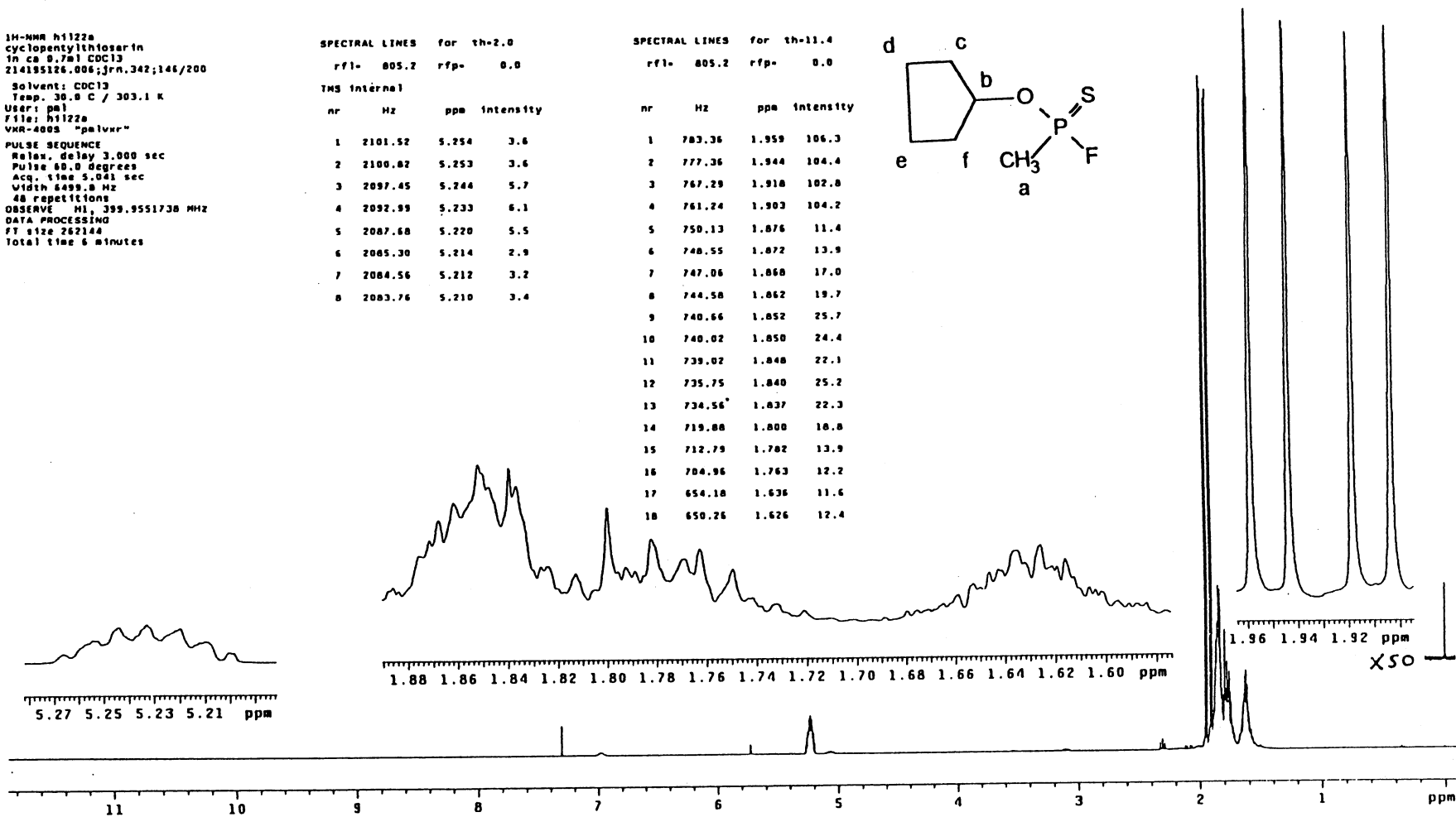
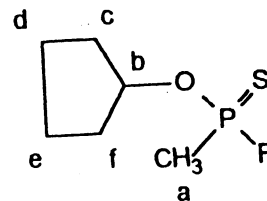
TMS internal

nr	Hz	ppm	intensity
1	2101.52	5.254	3.6
2	2100.82	5.253	3.6
3	2097.45	5.244	5.7
4	2092.99	5.233	6.1
5	2087.68	5.220	5.5
6	2085.30	5.214	2.9
7	2084.56	5.212	3.2
8	2083.76	5.210	3.4

SPECTRAL LINES for th=11.4

rfl= 805.2 rfp= 0.0

nr	Hz	ppm	intensity
1	783.36	1.959	106.3
2	777.36	1.944	104.4
3	767.29	1.918	102.8
4	761.24	1.903	104.2
5	750.13	1.876	11.4
6	748.55	1.872	13.9
7	747.06	1.868	17.0
8	744.58	1.862	19.7
9	740.66	1.852	25.7
10	740.02	1.850	24.4
11	739.02	1.848	22.1
12	735.75	1.840	25.2
13	734.56	1.837	22.3
14	719.88	1.800	18.8
15	712.79	1.782	13.9
16	704.96	1.763	12.2
17	654.18	1.636	11.6
18	650.26	1.626	12.4



Cyclopentyl methylthiophosphonofluoridate

CAS

Nucleus :

Frequency :

Concentration :

Reference TMS internal. Resolution :

Instrument :

¹H

400.0 MHz

ca. 154 mg/0.7 ml CDCl₃

0.4 Hz (TMS)

Varian VXR 400S

Temperature : 30 °C

Spectral width : 6499.8 Hz

Data point (FID) : 64 K

Pulse angle : 16.4 μs (60°)

Number of pulses : 48

Repetition time : 8.0 s

Line broadening : not used

Data points (spec) : 256 K

a: 1.93 ppm

b: 5.23 ppm

c: ca 1.85 ppm

d: 1.65-1.82 ppm

e: 1.65-1.82 ppm

f: ca 1.85 ppm

J(aP) : 16.1 Hz

J(bP) : ca 10.0 Hz

J(aF) : 6.0 Hz