

31P-NMR p115c dm-n
 thiosolan in ca 0.7ml CDCl3
 214195126.006 jrn.342;139/200
 Solvent: CDCl3
 Temp: 30.0 C / 303.1 K
 User: pm1
 File: p115c
 VXR-400S "pmlvar"
 PULSE SEQUENCE
 Relax. delay 3.400 sec
 Pulse 60.0 degrees
 Acq. time 4.845 sec
 Width 1763.7 Hz
 64 repetitions
 OBSERVE P31, 161.9047156 MHz
 DATA PROCESSING
 Line broadening 0.1 Hz
 FT size 65536
 Total time 8 minutes

SPECTRAL LINES for th-3.1

rf1= 1540.3 rfp= 17135.5

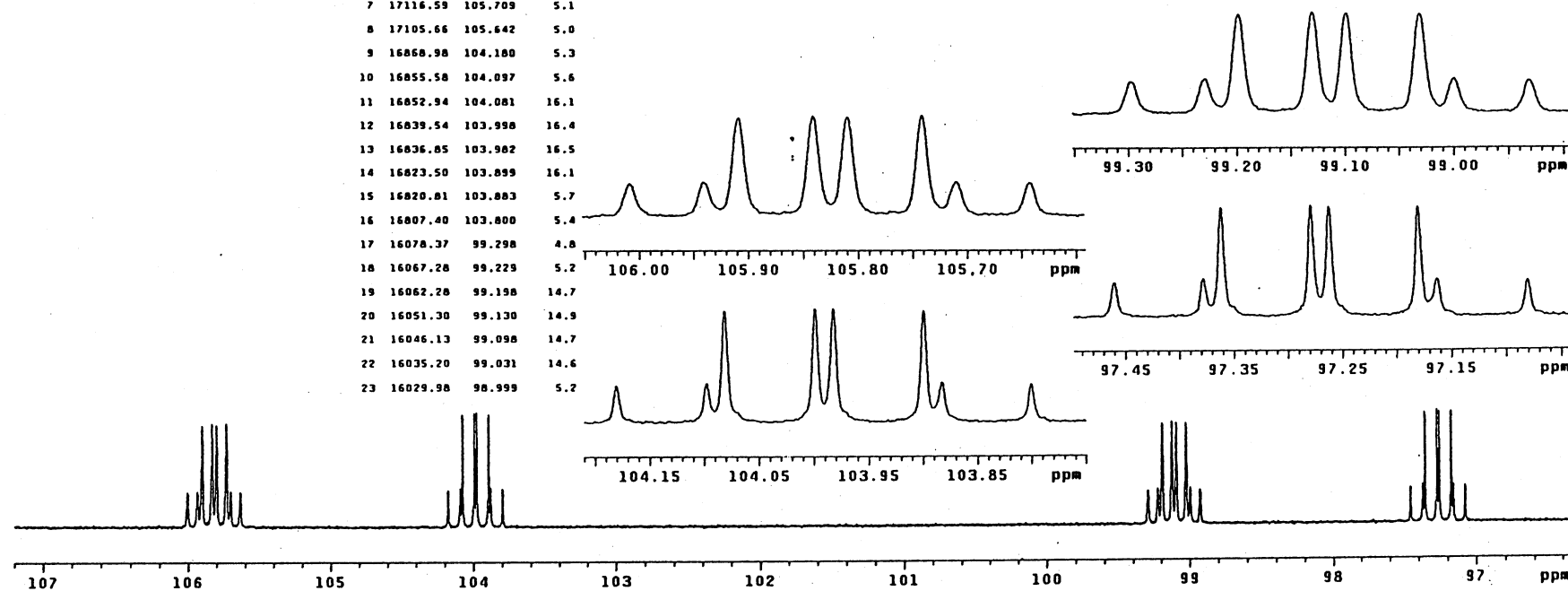
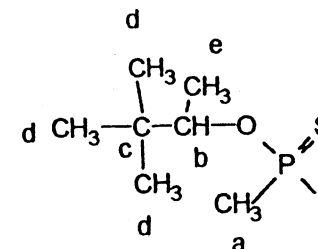
res.104.1ppm:1.0Hz

nr Hz ppm intensity

nr	Hz	ppm	intensity
1	17164.98	104.008	4.9
2	17154.05	105.941	5.0
3	17148.83	105.908	14.7
4	17137.85	105.841	14.9
5	17132.79	105.809	14.7
6	17121.75	105.741	15.0
7	17116.59	105.709	5.1
8	17105.66	105.642	5.0
9	16868.98	104.180	5.3
10	16855.58	104.097	5.6
11	16852.94	104.081	16.1
12	16839.54	103.998	16.4
13	16836.85	103.982	16.5
14	16823.50	103.899	16.1
15	16820.81	103.883	5.7
16	16807.40	103.800	5.4
17	16078.37	99.298	4.8
18	16067.28	99.229	5.2
19	16062.28	99.198	14.7
20	16051.30	99.130	14.9
21	16046.13	99.098	14.7
22	16035.20	99.031	14.6
23	16029.98	98.999	5.2

nr Hz ppm intensity

24	16019.00	98.931	4.9
25	15780.82	97.460	5.1
26	15767.47	97.377	5.7
27	15764.78	97.361	16.1
28	15751.43	97.278	16.4
29	15748.74	97.262	16.1
30	15735.39	97.179	16.1
31	15732.64	97.162	5.6
32	15719.24	97.080	5.4



1,2,2-trimethylpropyl methylthiophosphonofluoridate
 (2 diastereomers I and II) CAS 97931-17-4

Nucleus: ³¹P
 Frequency: 161.9 MHz
 Concentration: ca. 34 mg/0.7 ml CDCl₃
 Reference H₃PO₄ external. Res.: 1.0 Hz (104.1 ppm)
 Instrument: Varian VXR 400S

Temperature: 30 °C
 Spectral width: 1763.7 Hz
 Data point (FID): 16 K
 Pulse angle: 10.4 μs (60°)
 Number of pulses: 64
 Repetition time: 8.0 s
 Line broadening: 0.1 Hz
 Data points (spec): 64 K

I / II
 P: 102.5/100.6 ppm
 J(PF): 1086.6/1088.1 Hz
 J(aP): 16.1/16.1 Hz
 J(bP): 11.0/13.4 Hz