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Supplementary Information (35 pages)

Highly Selective and Practical Hydrolytic Oxidation of Organosialnes to Silanols Catalyzed by a Ruthenium Complex

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General. ^{1}H- and ^{13}C NMR spectra were measured on Bruker DPX 250 (^{1}H NMR: 250 MHz, ^{13}C NMR: 62.5 MHz) with $CDCl_3$ as the solvent. Optical rotation of the optically active silane and silanol was measured on Jasco DIP-140 Digital polarimeter. Commercially available solvents were purified by standard procedures. $RuCl_3$-H_2O, $RuCl_2(PPh_3)_3$, $Ru(cod)Cl_2$, $Ru_3(CO)_{12}$, $RhCl(PPh_3)_3$, $RuH_2(PPh_3)_4$, $[RuCl_2(benzene)]_2$, and $[RuCl_2(p\text{-cymene})]_2$ were purchased form Aldrich Co., and used as obtained without further purification. Dimethylphenylsilane, triethylsilane, dimethyloctadecylsilane, and triisobutylsilane were purchased from Fluka Co., and diphenylmethylsilane, diphenylsilane, and triphenylsilane from Aldrich Co. Silanes in entries 9~17 (Table 2) were prepared according to a typical procedure as described below. Silanes in entries 18~19 (Table 2) were prepared from a reported procedure.[6d]

A Typical Procedure for the alkenyl- and alkynylsilanes (entries 9-17 in Table 2)**:** To a solution of 1-hexyne (246 mg, 3.0 mmol) in diethyl ether (5 mL) was slowly added butyllithium (1.6 M in hexane, 2.1 mL, 3.3 mmol) at –78 ℃, and the solution was stirred for 30 min at the same temperature, after which a sloution of chlorodimethysilane (830 mg, 8.8 mmol) in diethyl ether (16 mL) was added. The resulting reaction mixture was allowed to warm up to room temperature over 1 h with stirring. The crude product was extracted with diethyl ether (20 mL x 2), washed with brine (30 mL x 2), and dried over $MgSO_4$. Column chromatography on silica gel (hexane) afforded the analytically pure product, dimethyl(1-hexynyl)silane (435 mg, 85%): ^{1}H NMR (250 MHz, $CDCl_3$) δ 4.03 (1H, m), 2.16 (2H, t, J = 6.9 Hz), 1.47–1.29 (4H, m), 0.84 (3H, t, J = 7.0 Hz), 0.16 (6H, d, J = 3.7 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 109.6, 81.6, 31.0, 22.3, 20.0, 13.9, -2.4; IR (CH_2Cl_2) cm^{-1} 2965, 2871, 2138, 1712, 1257; HRMS (EI) calcd for $C_8H_{16}Si$ 140.1022, found 140.1013.

Dimethyl(phenylethynyl)silane[7] (Table 2, entry 9): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.48–7.44 (2H, m), 7.30–7.25 (3H, m), 4.28 (1H, m), 0.32 (6H, d, J = 3.7 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 132.4, 129.1, 128.7, 123.3, 106.9, 91.5, -2.5; IR (CH_2Cl_2) cm^{-1} 2965, 2160, 1488, 1252, 1222.

Diisopropyl(phenylethynyl)silane (Table 2, entry 10): ^{1}H NMR (250MHz, $CDCl_3$) δ 7.53–7.50 (2H, m), 7.35–7.29 (3H, m), 3.86 (1H, s), 1.17–1.15 (14H, m); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 132.6, 129.1, 128.7, 123.6, 108.4, 88.3, 19.0, 18.8, 11.4; HRMS (EI) calcd for $C_{14}H_{20}Si$ 216.1334, found 216.1338.

Dimethyl(2-trimethylsilylethynyl)silane (Table 2, entry 11): ^{1}H NMR (250 MHz, $CDCl_3$) δ 4.18 (1H, m), 0.30 (6H, d, J = 3.8 Hz), 0.24 (9H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 116.1, 110.9, 0.2, -2.7; IR (CH_2Cl_2) cm^{-1} 2961, 2133, 1639, 1256; HRMS (EI) calcd for $C_7H_{16}Si_2$ 156.0791, found 156.0793.

Dimethyl(5-chloropentynyl)silane (Table 2, entry 13): ^{1}H NMR (250 MHz, $CDCl_3$) δ 4.13 (1H, m), 3.68 (2H, t, J = 6.4 Hz), 2.46 (2H, t, J = 6.8 Hz), 2.0 (2H, m), 0.25 (6H, d, J = 3.0 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 107.1, 83.1, 43.9, 31.6, 17.7, -2.5; IR (CH_2Cl_2) cm^{-1} 2963, 2178, 2140, 1252, 1043; MS (EI) 155 (8.1), 149 (10.5), 140 (72.8), 125 (17.0), 113 (30.2), 97 (44.0), 91 (36.8), 83 (53.6), 71 (59.6), 69 (51.5), 57 (100.0).

Dimethyl[(1-cyclohexenyl)ethynyl]silane (Table 2, entry 14): ^{1}H NMR (250 MHz, $CDCl_3$) δ 6.20 (1H, bs), 4.18 (1H, m), 2.10 (4H, m), 1.59 (4H, m), 0.25 (2H, d, J = 3.7 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 137.0, 121.0, 109.1, 88.2, 29.3, 26.0, 22.6, 21.8, -2.4; IR (CH_2Cl_2) cm^{-1} 2935, 2852, 2139, 1438, 1252; HRMS (EI) calcd for $C_{10}H_{16}Si$ 164.1022, found 164.1029.

Dimethyl(2-thienyl)silane (Table 2, entry 15): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.59 (1H, d, J = 4.6 Hz), 7.30 (1H, d, J = 3.2 Hz), 7.18 (1H, m), 4.58 (1H, m), 0.38 (6H, d, J = 3.7 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 136.7, 135.5, 131.5, 128.7, -2.3; IR (CH_2Cl_2) cm^{-1} 2961, 2129, 1639, 1253; HRMS (EI) calcd for $C_6H_{10}SSi$ 142.0273, found 142.0290.

(*E*)-Dimethyl(2-phenylethenyl)silane[4a] (Table 2, entry 16): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.45–7.25 (5H, m), 7.02 (1H, d, J = 19.0 Hz), 6.50 (1H, dd, J = 19.0, 2.6 Hz), 4.23 (1H, m), 0.25 (6H, d, J = 3.7 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 145.8, 138.6, 129.0, 128.6, 126.9, 126.5, -3.5.

Diphenyl(2-methyl-1-propenyl)silane (Table 2, entry 17): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.61–7.55 (4H, m), 7.39–7.34 (6H, m), 5.55 (1H, d, J = 4.9 Hz), 5.23 (1H, m), 1.98 (3H, d, J = 3.7 Hz), 1.87 (3H, d, J = 4.4 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 157.4, 135.7, 135.5, 129.9, 128.4, 117.2, 30.0, 24.3; IR (CH_2Cl_2) cm^{-1} 3067, 3013, 2136, 1429, 1122; HRMS (EI) calcd for $C_{16}H_{18}Si$ 138.1178, found 238.1179.

(+/-)-Methyl(α-naphthyl)phenylsilane[6d] (Table 2, entry 18): ^{1}H NMR (250 MHz, $CDCl_3$) δ 8.36–8.32 (1H, m), 8.13–7.98 (3H, m), 7.84–7.81 (2H, m), 7.70–7.51 (6H, m), 5.66 (1H, m), 1.01 (1H, d, J = 3.8 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 137.5, 135.8, 135.6, 135.3, 133.8, 133.7, 130.9, 129.9, 129.3, 128.4, 128.3, 126.5, 126.0, 125.6, -4.1.

(+)-Methyl(α-naphthyl)phenylsilane[6d] (Table 2, entry 19): ^{1}H NMR (250 MHz, $CDCl_3$) δ 8.14–8.10 (1H, m), 7.98–7.79 (3H, m), 7.66–7.62 (2H, m), 7.55–7.39 (6H, m), 5.43 (1H, m), 0.83 (3H, d, J = 3.8 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 137.5, 135.8, 135.7, 135.3, 133.8, 133.7, 130.9, 130.0, 129.3, 128.5, 128.4, 126.5, 126.0, 125.6, -4.1.

A Typical Procedure for the hydrolytic oxidation of silane to silanol catalyzed by 1 is described in the text as a footnote (footnote number 10).

Dimethylphenylsilanol[6d] (Table 2, entry 1): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.59–7.52 (2H, m), 7.50–7.35 (3H, m), 2.24 (1H, bs), 0.33 (6H s).

Diphenylmethylsilanol[6a] (Table 2, entry 3): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.41–7.39 (4H, m), 7.22–7.12 (6H, m), 3.57 (1H, bs), 0.41 (3H, s).

Diphenylsilanediol[7] (Table 2, entry 4): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.76–7.73 (4H, m), 7.49–7.39 (6H, m), 2.87 (2H, bs).

Triethylsilanol[6a] (Table 2, entry 5): ^{1}H NMR (250 MHz, $CDCl_3$) δ 1.00 (1H, bs), 0.42 (9H, t, J = 3.6 Hz), 0.25 (6H, q, J = 3.6 Hz).

Dimethyloctadecylsilanol (Table 2, entry 6): ^{1}H NMR (250 MHz, $CDCl_3$) δ 2.07 (1H, bs), 1.18–1.14 (34H, m), 0.75 (3H, t, J = 6.7 Hz), 0.45 (2H, m), 0.00 (6H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 34.0, 32.4, 30.2, 30.1, 29.9, 23.7, 23.2, 18.3, 14.6, 0.2; IR (CH_2Cl_2) cm^{-1} 3246 (br), 2919, 2850, 2361, 1464; HRMS (EI) calcd for $C_{20}H_{44}OSi$ 328.3163, found 328.3152.

Tripheylsilanol[6d] (Table 2, entry 7): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.52–7.49 (6H, m), 7.37-7.21 (9H, m), 2.79 (1H, bs).

Triisobutylsilanol (Table 2, entry 8): ^{1}H NMR (250 MHz, $CDCl_3$) δ 1.85 (3H, m), 1.34 (1H, bs), 0.95 (18H, d, J = 6.5 Hz), 0.61 (6H, d, J = 6.9 Hz); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 27.5, 26.8, 24.7; IR (CH_2Cl_2) cm^{-1} 3432 (br), 2955, 1650, 1464, 1218; HRMS (EI) calcd for $C_{12}H_{28}OSi$ 216.1909, found 216.1906.

Dimethyl(phenylethynyl)silanol[7] (Table 2, entry 9): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.49–7.45 (2H, m), 7.36–7.25 (3H, m), 2.55 (1H, bs), 0.38 (6H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 132.5, 129.3, 128.7, 122.9, 105.2, 93.1, 2.0; IR (CH_2Cl_2) cm^{-1} 3339 (br), 2964, 2160, 1489, 1257.

Diisopropyl(phenylethynyl)silanol (Table 2, entry 10): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.50–7.46 (2H, m), 7.32–7.26 (3H, m), 2.26 (1H, bs), 1.15–1.02 (14H, m); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 132.6, 129.3, 128.7, 123.1, 106.6, 90.2, 17.5, 17.3, 13.7; IR (CH_2Cl_2) cm^{-1} 3360 (br), 2946, 2159, 1463, 1028; HRMS (EI) calcd for $C_{14}H_{20}OSi$ 232.1283, found 232.1281.

Dimethyl(2-trimethylsilylethynyl)silanol (Table 2, entry 11): ^{1}H NMR (250 MHz, $CDCl_3$) δ 1.69 (1H, bs), 0.30 (6H, s), 0.18 (9H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 116.1, 110.9, 0.6, -2.6; IR (CH_2Cl_2) cm^{-1} 3445, 2963, 1637, 1053; HRMS (EI) calcd for $C_7H_{16}OSi_2$ 172.0740, found 172.0717.

Dimethyl(1-hexynyl)silanol (Table 2, entry 12): ^{1}H NMR (250 MHz, $CDCl_3$) δ 2.23 (2H, t, J = 6.9 Hz), 1.57–1.36 (5H, m), 0.91 (3H, t, J = 7.0 Hz), 0.27 (6H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 108.1, 83.8, 30.9, 22.3, 19.8, 14.0, 2.0; IR (CH_2Cl_2) cm^{-1} 3306 (br), 2962, 2936, 2177, 1256; HRMS (EI) calcd for $C_8H_{16}OSi$ 156.0971, found 156.0967.

Dimethyl(5-chloropentynyl)silanol (Table 2, entry 13): ^{1}H NMR (250 MHz, $CDCl_3$) δ 3.65 (2H, t, J = 6.3 Hz), 2.43 (3H, t, J = 6.8 Hz), 1.98 (2H, m), 0.28 (6H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 131.5, 110.8, 49.1, 36.7, 22.7, 7.2; IR (CH_2Cl_2) cm^{-1} 3306 (br), 2962, 2177, 1256; MS (EI) 169 (6.1), 167 (14.0), 133 (11.5), 123 (5.7), 95 (6.5), 74 (5.8), 73 (100.0).

Dimethyl[(1-cylcohexenyl)ethynyl]silanol (Table 2, entry 14): ^{1}H NMR (250 MHz, $CDCl_3$) δ 6.22 (1H, bs), 2.12 (4H, m), 1.99 (1H, bs), 1.60 (4H, m), 0.30 (6H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 137.6, 120.7, 107.4, 90.0, 29.2, 26.1, 22.5, 21.7, 2.0; IR (CH_2Cl_2) cm^{-1} 3433 (br), 2938, 2148, 1639, 1256; HRMS (EI) calcd for $C_{10}H_{16}OSi$ 180.0971, found 180.0973.

Dimethyl(2-thienyl)silanol (Table 2, entry 15): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.64 (1H, d, J = 4.6 Hz), 7.37 (1H, d, J = 3.3 Hz), 7.20 (1H, m), 2.18 (1H, bs), 0.46 (6H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 139.0, 135.1, 131.5, 128.6, 1.3; IR (CH_2Cl_2) cm^{-1} 3339 (br), 2962, 1256, 1086; HRMS (EI) calcd for $C_6H_{10}OSi$ 158.0222, found 158.0221.

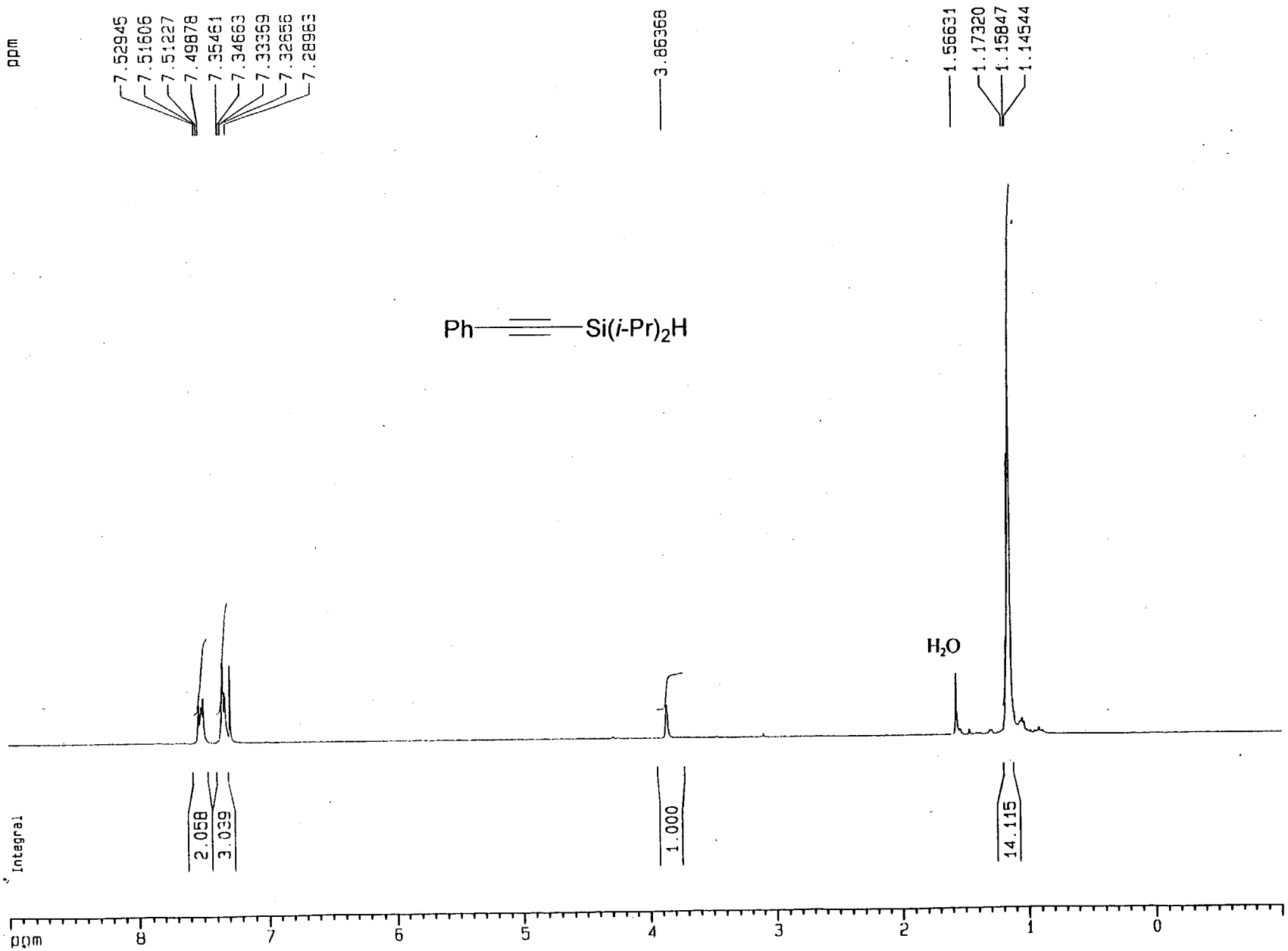
(*E*)-Dimethyl(2-phenylethenyl)silanol[4a] (Table 2, entry 16): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.44–7.23 (5H, m), 6.95 (1H, d, J = 19.3 Hz), 6.47 (1H, d, J = 19.2 Hz), 2.45 (1H, bs), 0.35 (6H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 145.6, 138.4, 129.0, 128.8, 128.0, 127.0, 0.54; IR (CH_2Cl_2) cm^{-1} 3264 (br), 2960, 1604, 1253.

Diphenyl(2-methyl-1-propenyl)silanol (Table 2, entry 17): ^{1}H NMR (250 MHz, $CDCl_3$) δ 7.65–7.62 (4H, m), 7.42–7.32 (6H, m), 5.59 (1H, s), 2.36 (1H, bs), 1.95 (3H, s), 1.79 (3H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 158.4, 137.6, 134.8, 130.1, 128.3, 119.8, 30.0, 24.7; IR (CH_2Cl_2) cm^{-1} 3391 (br), 3067, 1621, 1116; HRMS (EI) calcd for $C_{10}H_{16}OSi$ 254.1127, found 254.1120.

(+/-)-Methyl(α-naphthyl)phenylsilanol[6d] (Table 2, entry 18): ^{1}H NMR (250 MHz, $CDCl_3$) δ 8.14 (1H, m), 7.97–7.83 (3H, m), 7.68–7.66 (2H, m), 7.54–7.40 (6H, m), 2.41 (1H, bs), 0.86 (3H, s); ^{13}C NMR (62.5 MHz ,$CDCl_3$) δ 138.1, 137.2, 135.2, 135.1, 134.4, 133.8, 131.2, 130.3, 129.3, 128.8, 128.4, 126.4, 125.9, 125.4, 0.45.

(-)-Methyl(α-naphthyl)phenylsilanol[6d] (Table 2, entry 19): ^{1}H NMR (250 MHz, $CDCl_3$) δ 8.16 (1H, m), 7.97–7.83 (3H, m), 7.68–7.65 (2H, m), 7.50–7.29 (6H, m), 2.41 (1H, bs), 0.85 (3H, s); ^{13}C NMR (62.5 MHz, $CDCl_3$) δ 138.1, 137.2, 135.2, 135.1, 134.4, 133.8, 131.2, 130.3, 129.3, 128.8, 128.4, 126.5, 126.0, 125.4, 0.46.

(Table 2, entry 10)

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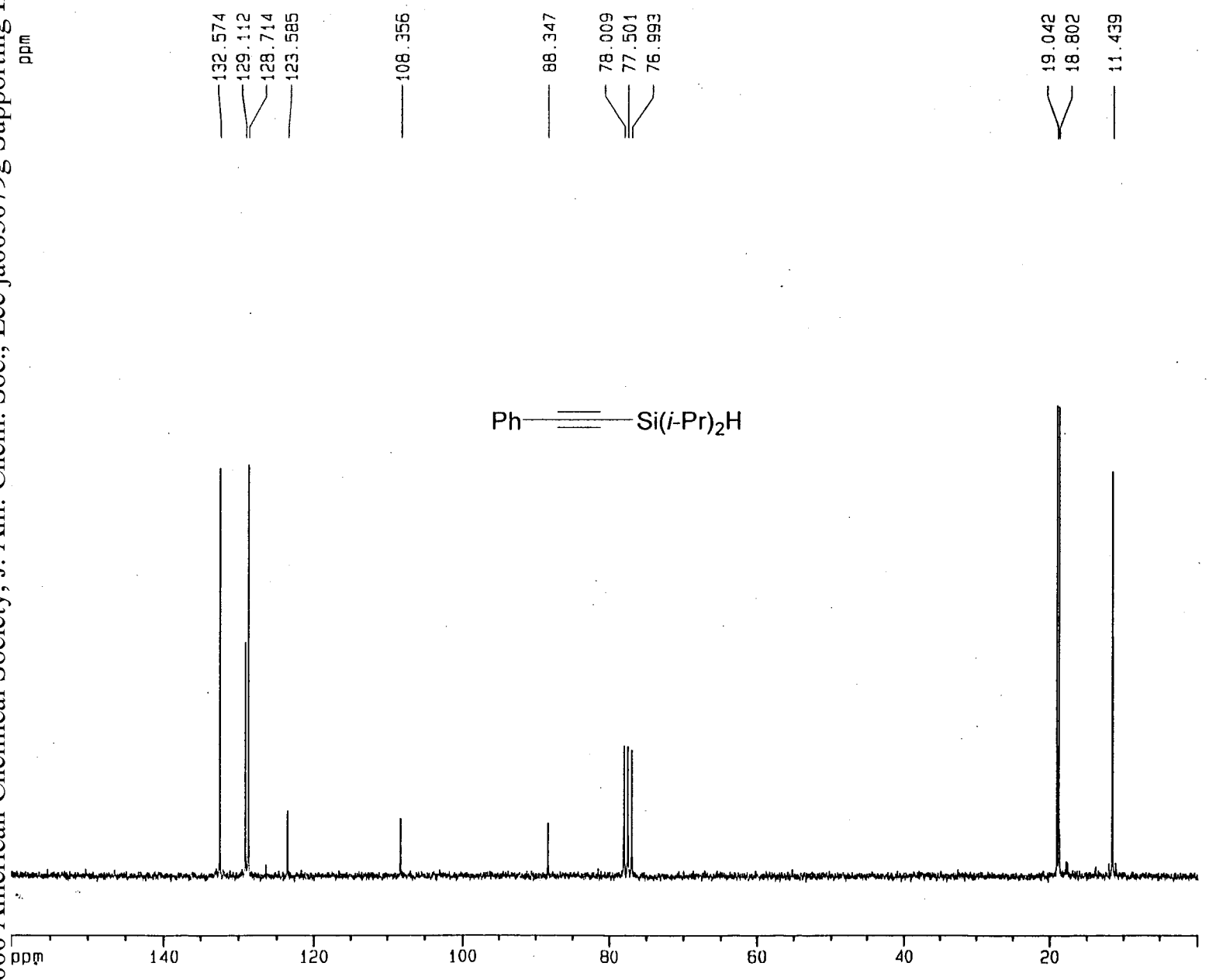
Diisopropyl(phenylethynyl)silane

(Table 2, entry 10)



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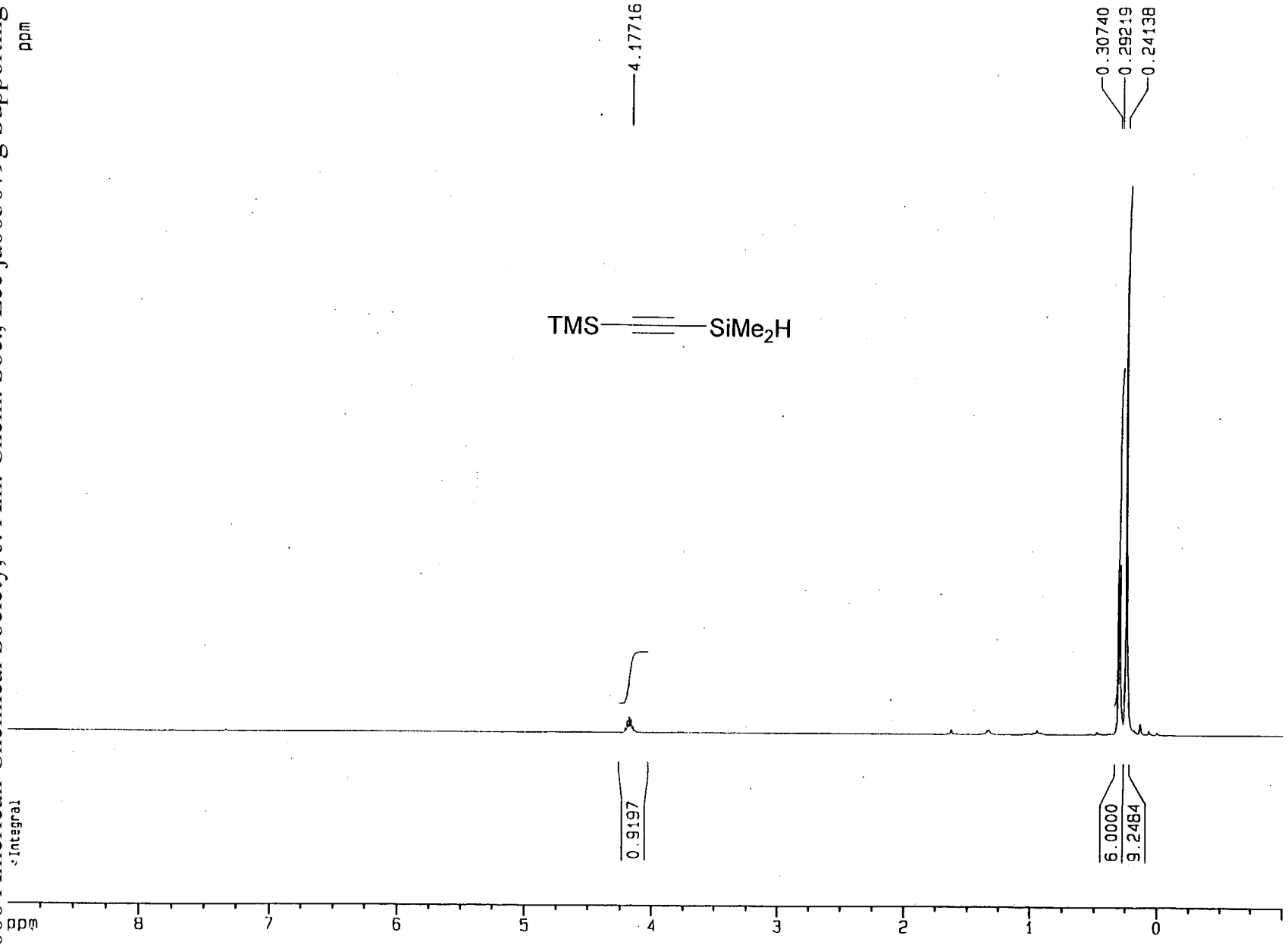
Dimethyl(2-trimethylsilylethynyl)silane

(Table 2, entry 11)

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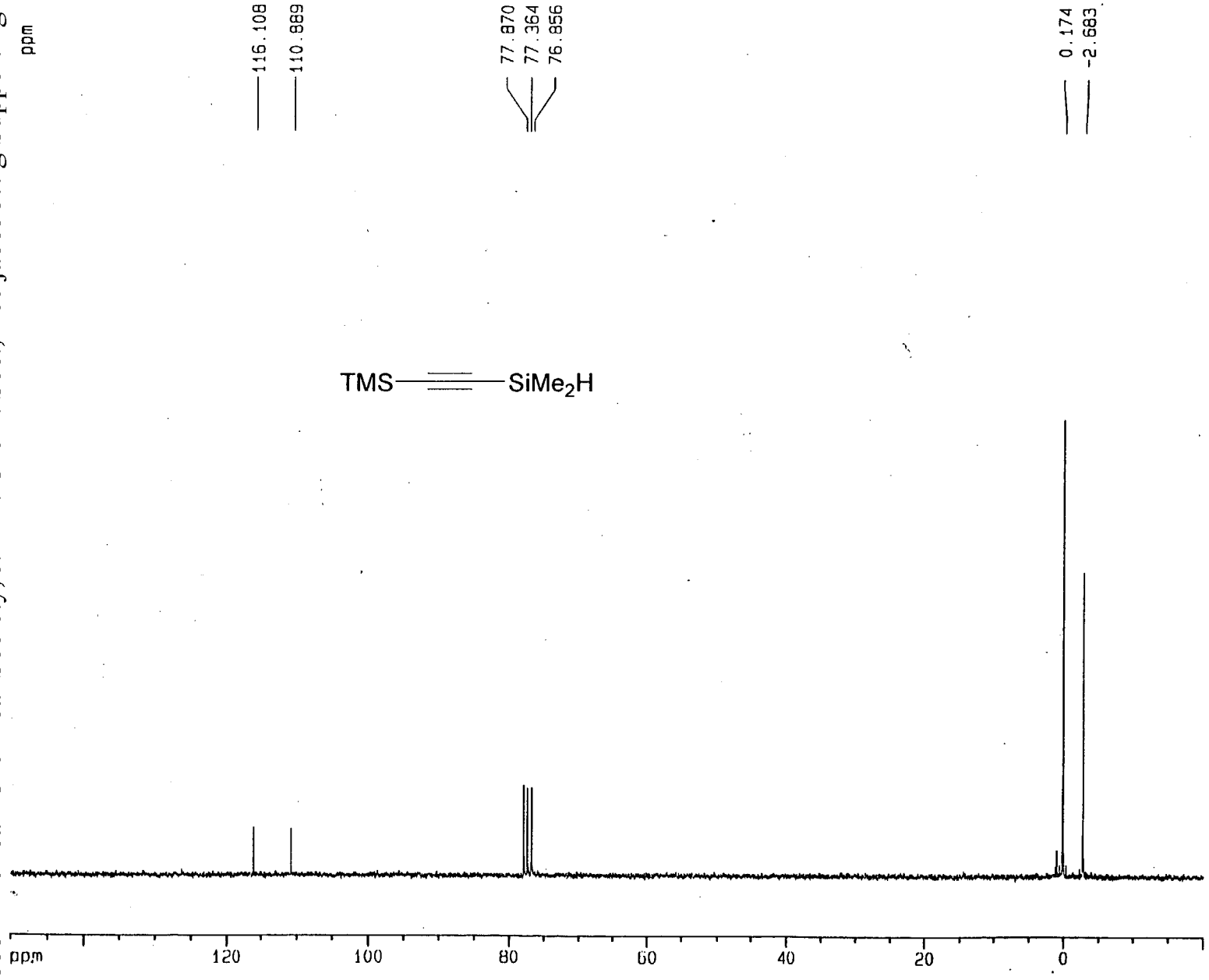
Dimethyl(2-trimethylsilylethynyl)silane

(Table 2, entry 11)



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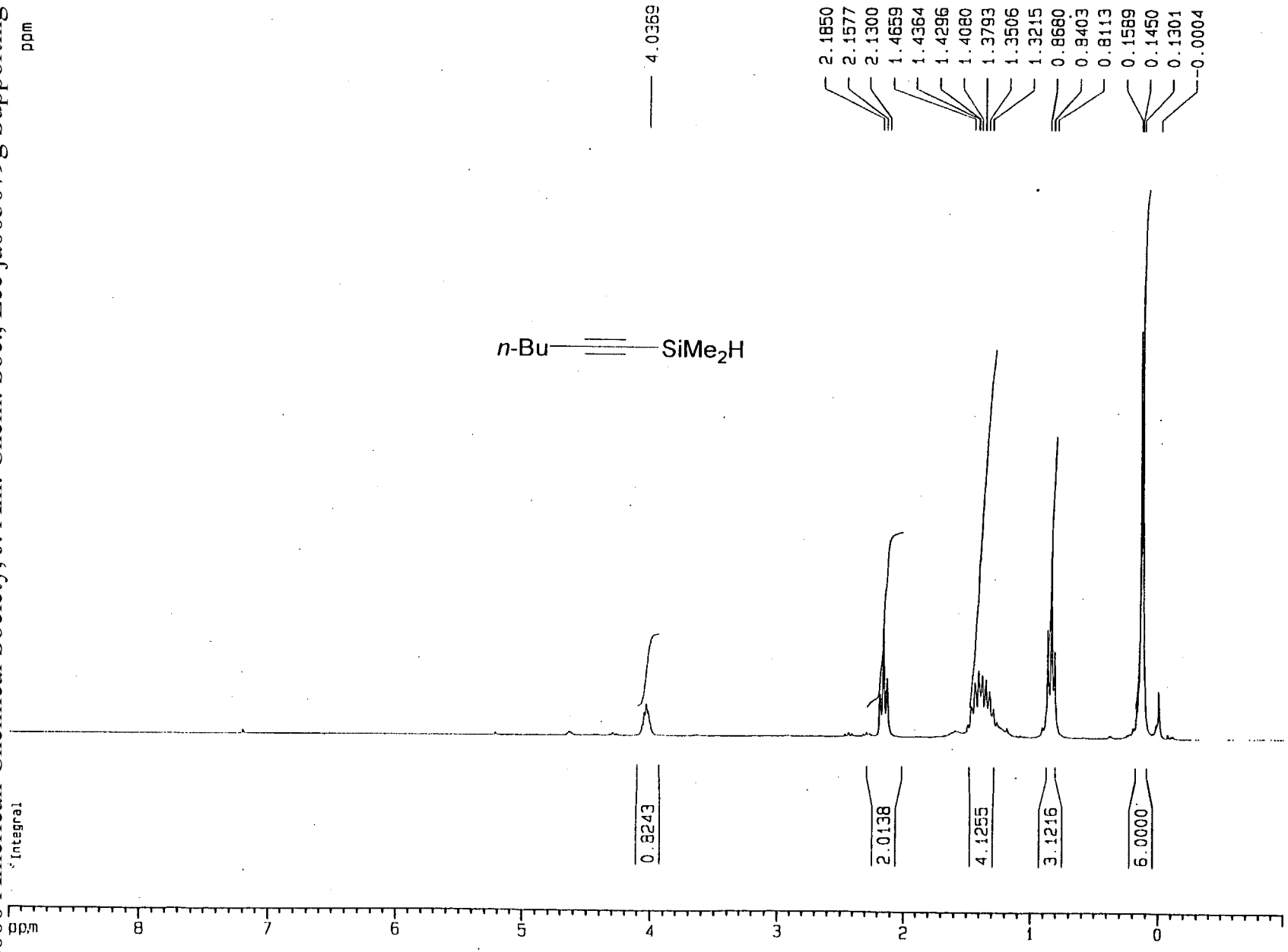
Dimethyl(1-hexynyl)silane

(Table 2, entry 12)



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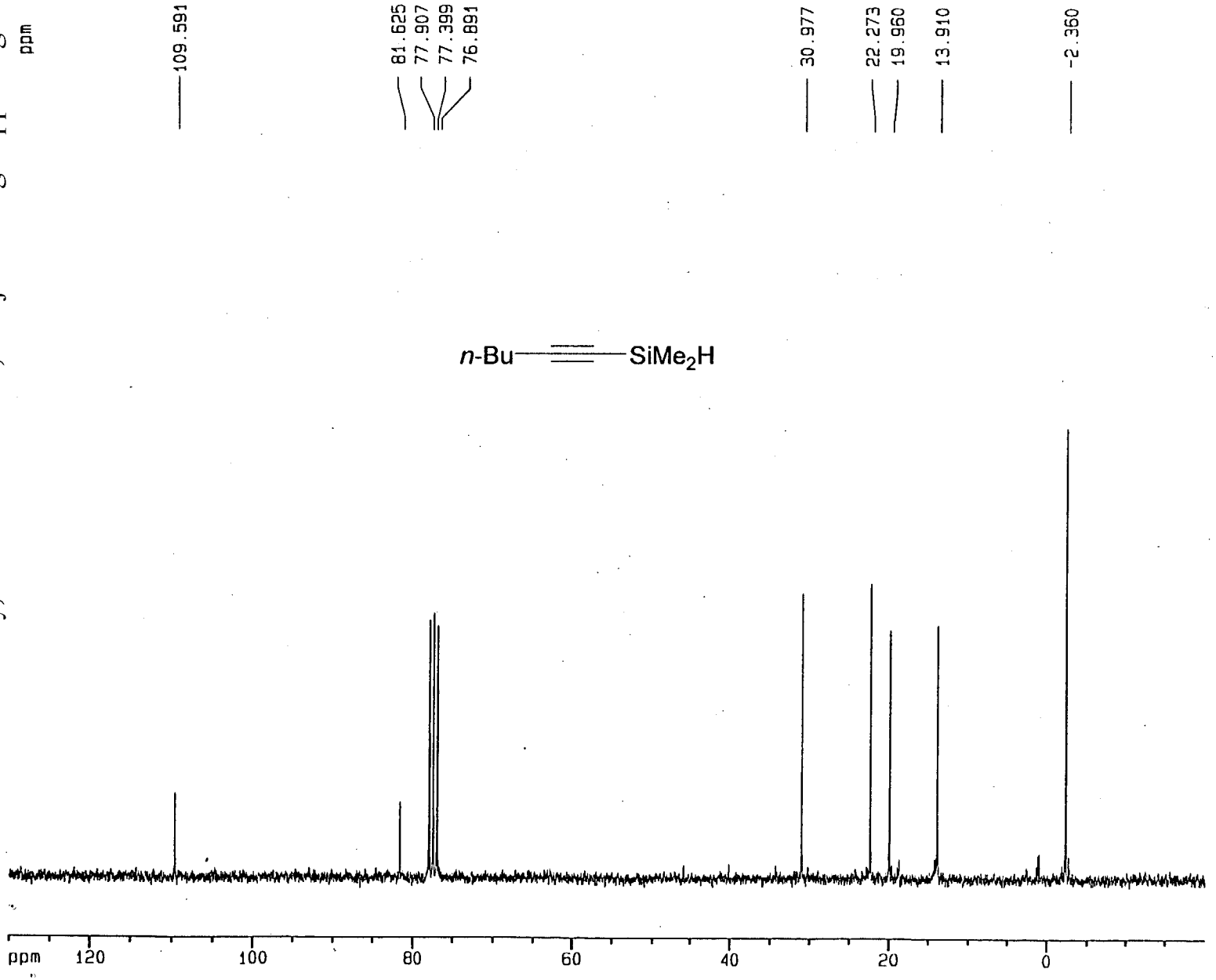
SF	250.1300225 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	22.00 cm
F1P	9.000 ppm
F1	2251.17 Hz
F2P	-1.000 ppm
F2	-250.13 Hz
PPMCM	0.45455 ppm/
HZCM	113.69547 Hz/

Dimethyl(1-hexynyl)silane

(Table 2, entry 12)



Current Data Parameters

NAME	mm
EXPNO	694
PROCNO	1

F2 - Acquisition Parameters

Date_	500000
Time	11.48
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	224
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec

F2 - Processing parameters

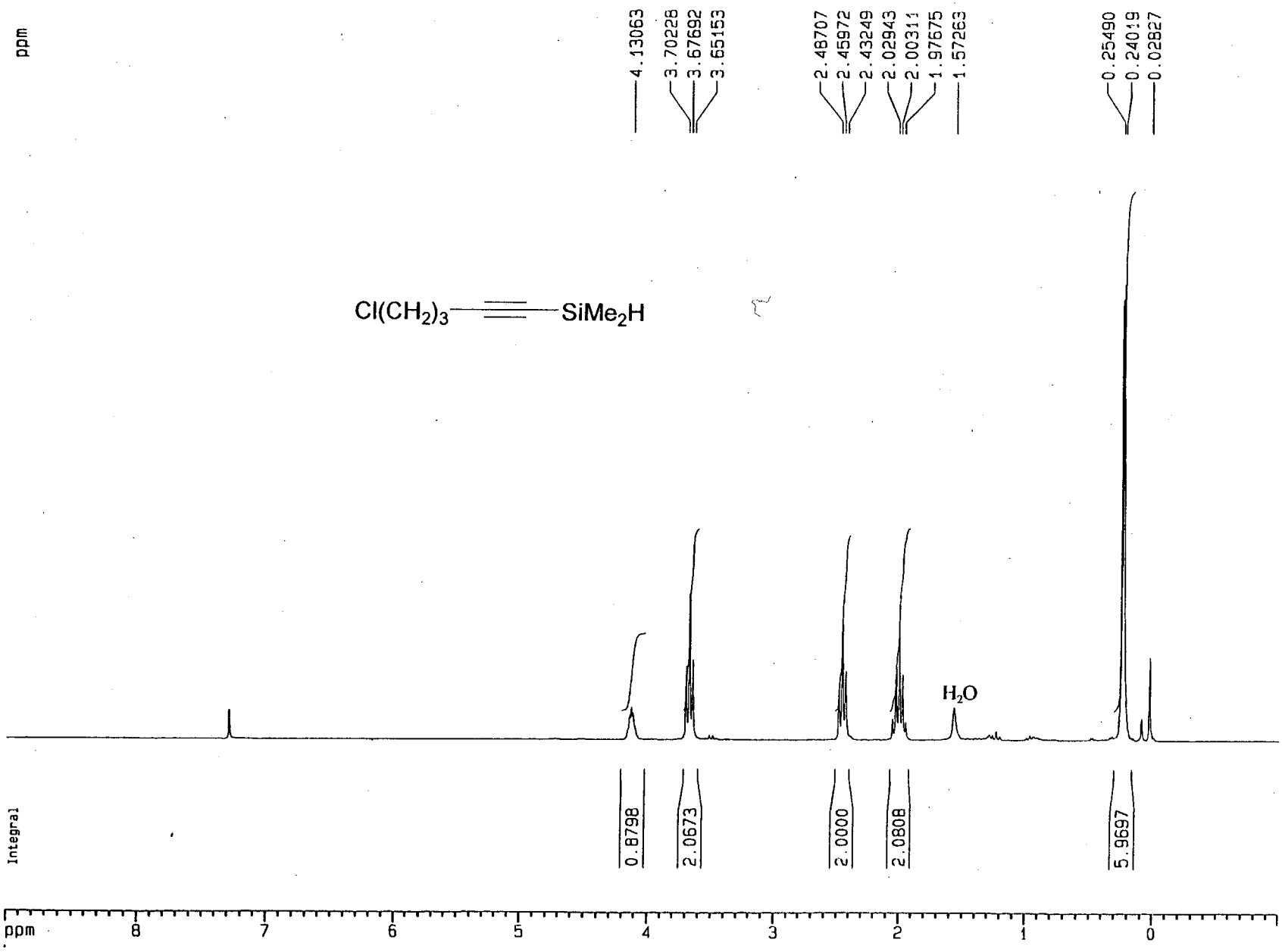
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	20.00 cm
F1P	130.000 ppm
F1	8176.38 Hz
F2P	-20.000 ppm
F2	-1257.90 Hz
PPMCM	7.50000 ppm/cm
HZCM	471.71405 Hz/cm

Dimethyl(5-chloropentynyl)silane

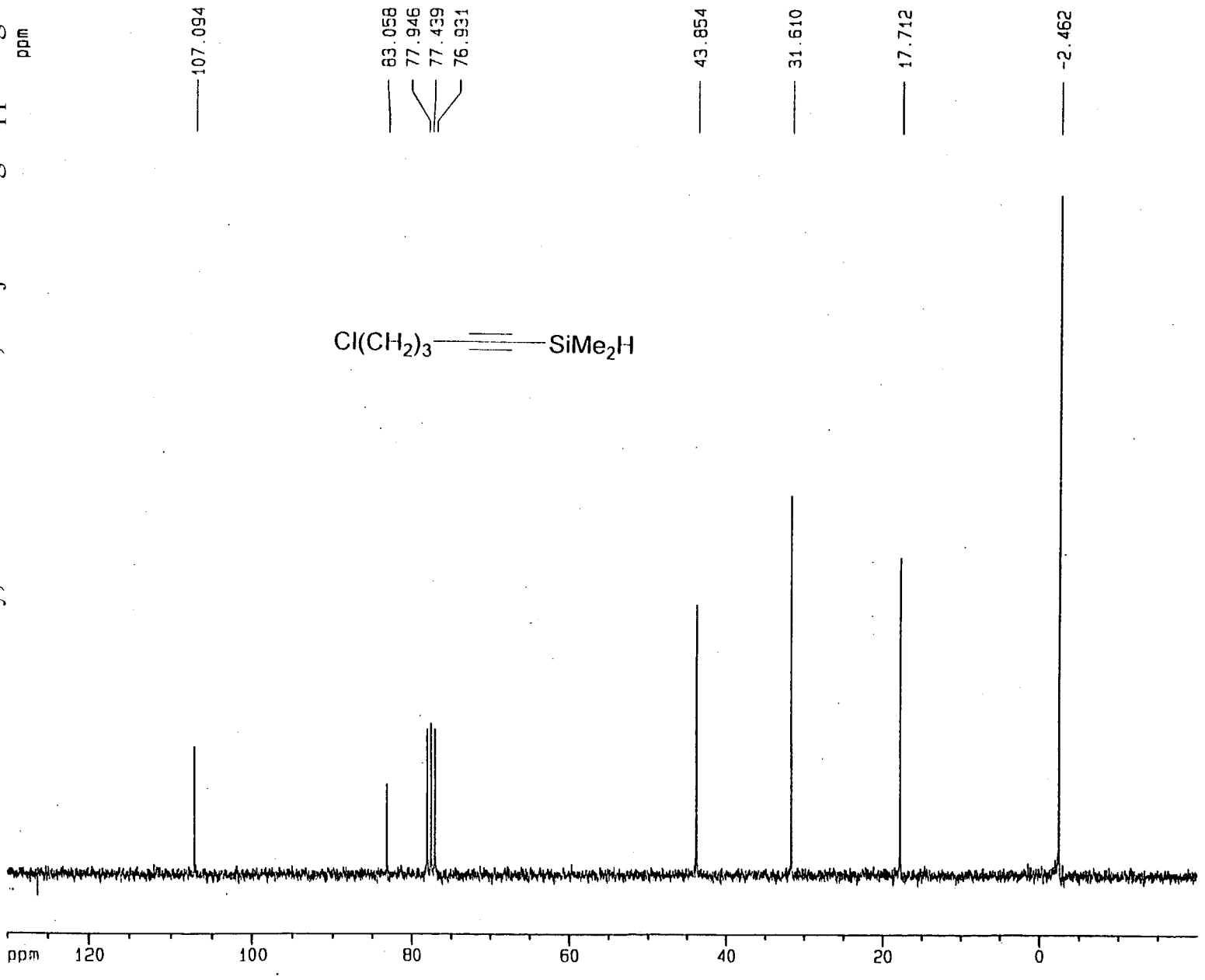
(Table 2, entry 13)



Current Data Parameters	
NAME	mm
EXPNO	635
PROCNO	1
F2 - Acquisition Paramet	
Date_	500000
Time	3.44
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	16
DS	2
SWH	5144.033
FIDRES	0.156983
AQ	3.1850996
RG	512
DW	97.200
DE	6.00
TE	300.0
D1	1.00000000
P1	11.50
DE	6.00
SFO1	250.1315447
NUC1	1H
PL1	-3.00
F2 - Processing paramete	
SI	16384
SF	250.1300000
WDW	EM
SSB	0
LB	0.30
GB	0
PC	1.00
1D NMR plot parameters	
CX	22.00
F1P	9.000
F1	2251.17
F2P	-1.000
F2	-250.13
PPMCM	0.45455
HZCM	113.69546

Dimethyl(5-chloropentynyl)silane

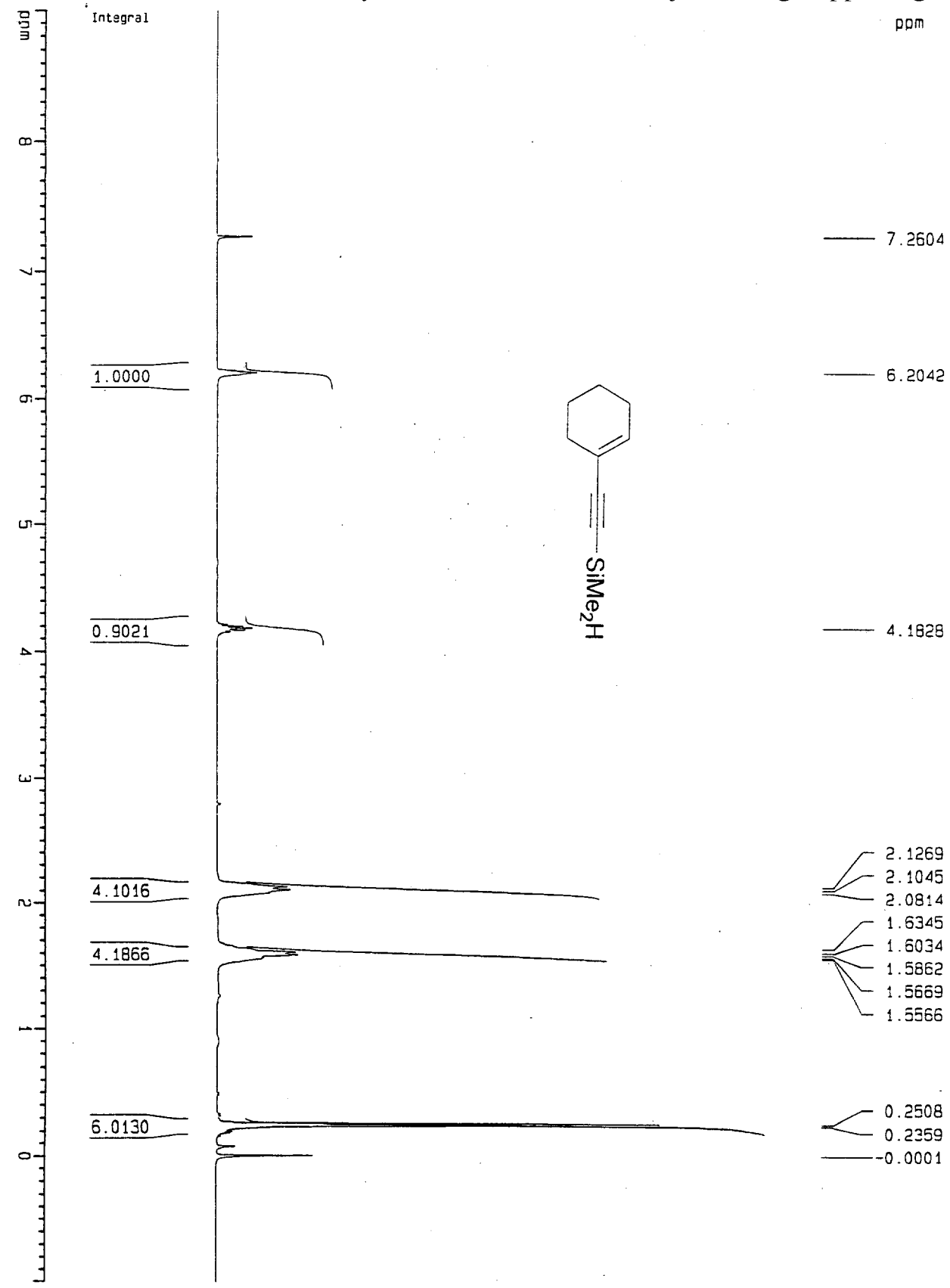
(Table 2, entry 13)



Current Data Parameters	
NAME	mm
EXPNO	659
PROCNO	1
F2 - Acquisition Parameters	
Date_	500000
Time	8.47
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	86
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec
F2 - Processing parameters	
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1P	130.000 ppm
F1	8176.38 Hz
F2P	-20.000 ppm
F2	-1257.90 Hz
PPMCM	7.50000 ppm/cm
HZCM	471.71405 Hz/cm

Dimethyl[(1-cyclohexenyl)ethynyl]silane

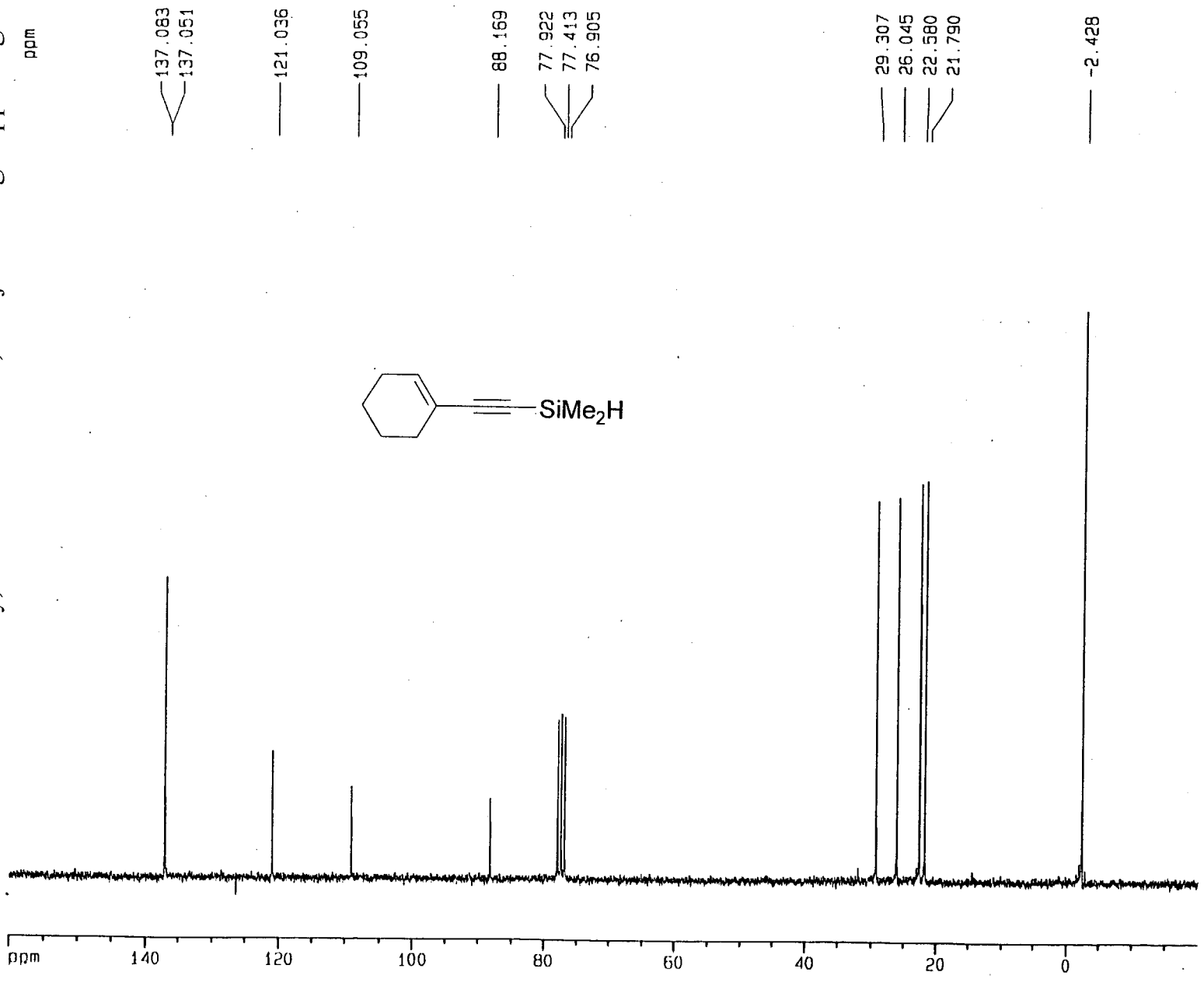
(Table 2, entry 14)




```
Current Data Parameters
NAME                  mm
EXPNO                634
PROCNO                 1

F2 - Acquisition Parameters
Date_            500000
Time                3.38
INSTRUM            spect
PROBHD  5 mm Dual 13 29
PULPROG             zg30
TD                 32768
SOLVENT             CDCl3
NS                     16
DS                      2
SWH              5144.033 Hz
FIDRES           0.156983 Hz
AQ               3.1850996 se
RG                   456.1
DW                97.200 us
DE                 6.00 us
TE                 300.0 K
D1               1.00000000 se
P1                11.50 us
DE                 6.00 us
SFO1     250.1315447 MH
NUC1                  1H
PL1               -3.00 dB

F2 - Processing parameters
SI                 16384
SF          250.1300072 MH
WDW                   EM
SSB                    0
LB                0.30 Hz
GB                     0
PC                1.00

1D NMR plot parameters
CX                22.00 cm
F1P               9.000 pp
F1                2251.17 Hz
F2P              -1.000 pp
F2               -250.13 Hz
PPMCM             0.45455 pp
HZCM           113.69546 Hz
```

Dimethyl[(1-cyclohexenyl)ethynyl]silane

(Table 2, entry 14)



Current Data Parameters

NAME	mm
EXPNO	679
PROCNO	1

F2 - Acquisition Parameters

Date_	500000
Time	5.01
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	716
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec

F2 - Processing parameters

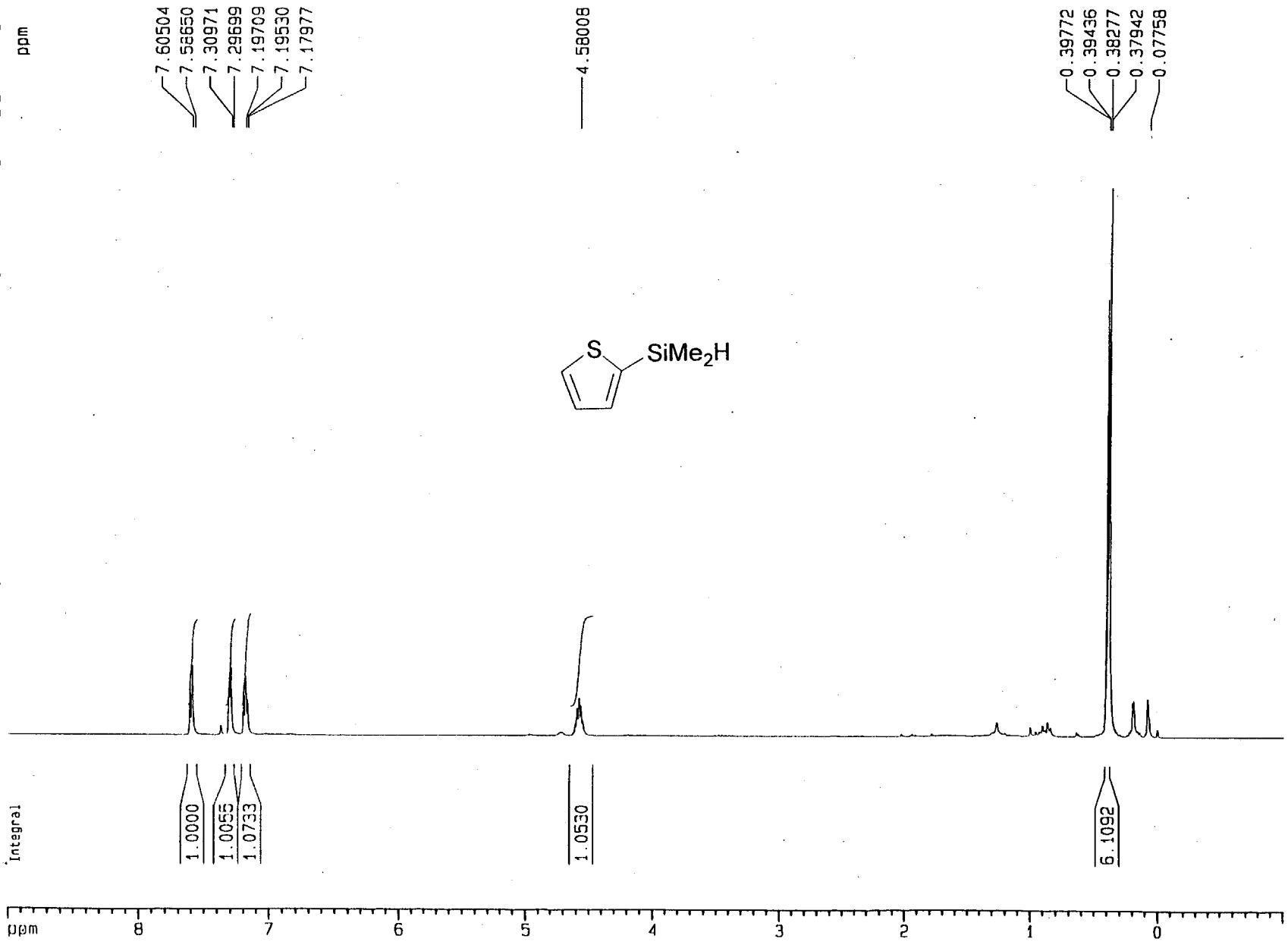
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	20.00 cm
F1P	160.000 ppm
F1	10063.23 Hz
F2P	-20.000 ppm
F2	-1257.90 Hz
PPMCM	9.00000 ppm/cm
HZCM	566.05695 Hz/cm

Dimethyl(2-thienyl)silane

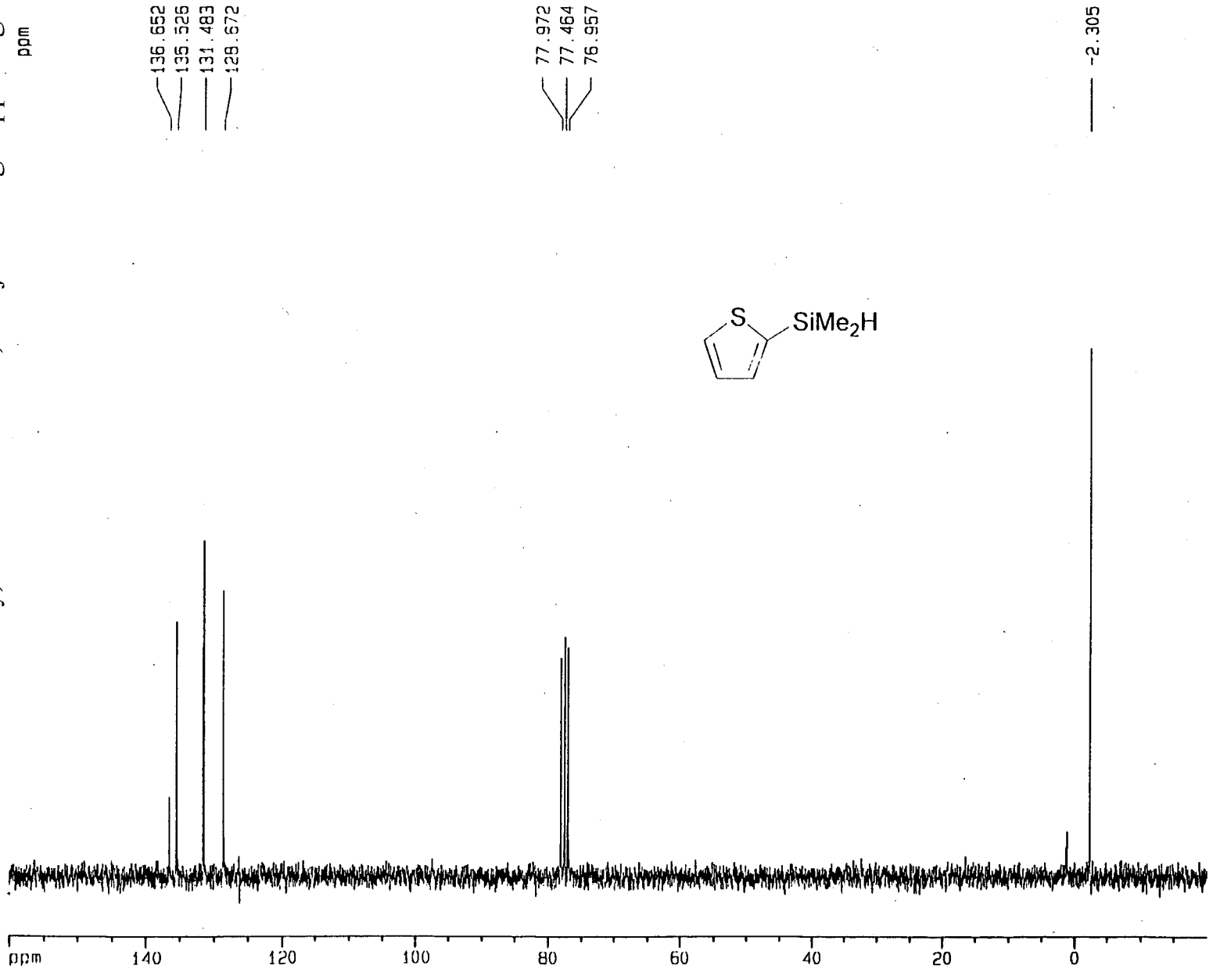
(Table 2, entry 15)



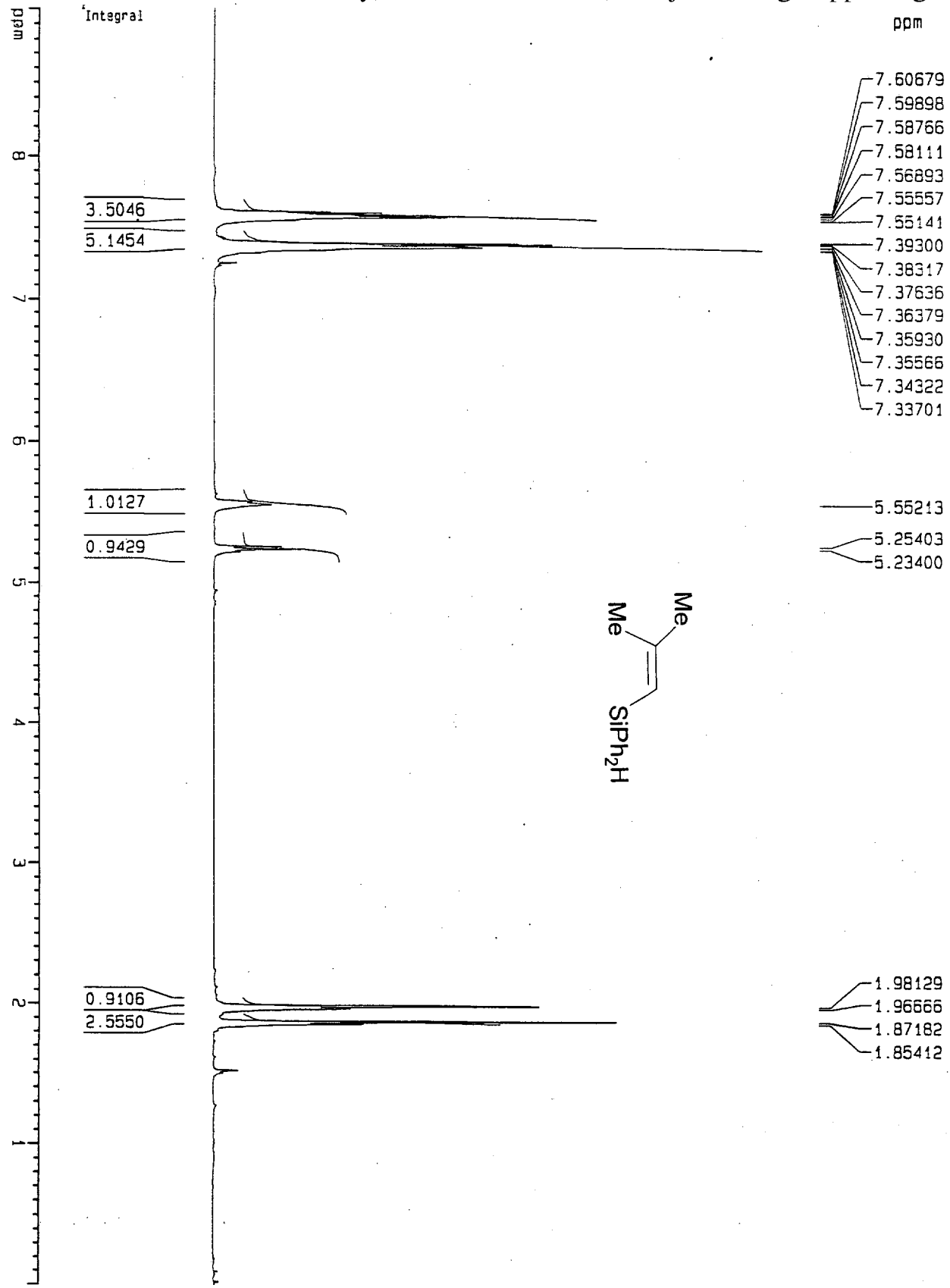

```
Current Data Parameters
NAME                  mm
EXPNO                661
PROCNO                 1

F2 - Acquisition Parameter
Date_             500000
Time                9.02
INSTRUM            spect
PROBHD     5 mm Dual 13
PULPROG             zg30
TD                 32768
SOLVENT            CDCl3
NS                    16
DS                     2
SWH           5144.033 Hz
FIDRES        0.156983 Hz
AQ            3.1850996 se
RG                  71.8
DW                97.200 us
DE                 6.00 us
TE                300.0 K
D1           1.00000000 se
P1                11.50 us
DE                 6.00 us
SFO1         250.1315447 MH
NUC1                  1H
PL1               -3.00 dB

F2 - Processing parameters
SI                 16384
SF           250.1300238 MH
WDW                   EM
SSB                    0
LB                0.30 Hz
GB                     0
PC                  1.00

1D NMR plot parameters
CX                22.00 cm
F1P               9.000 ppm
F1              2251.17 Hz
F2P              -1.000 ppm
F2              -250.13 Hz
PPMCM          0.45455 ppm
HZCM          113.69547 Hz/
```

Dimethyl(2-thienyl)silane

(Table 2, entry 15)



Current Data Parameters	
NAME	mm
EXPNO	665
PROCNO	1
F2 - Acquisition Parameters	
Date_	500000
Time	9.32
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	49
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec
F2 - Processing parameters	
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1P	160.000 ppm
F1	10063.23 Hz
F2P	-20.000 ppm
F2	-1257.90 Hz
PPMCM	9.00000 ppm/cm
HZCM	566.05695 Hz/cm



Diphenyl(2-methyl-1-propenyl)silane

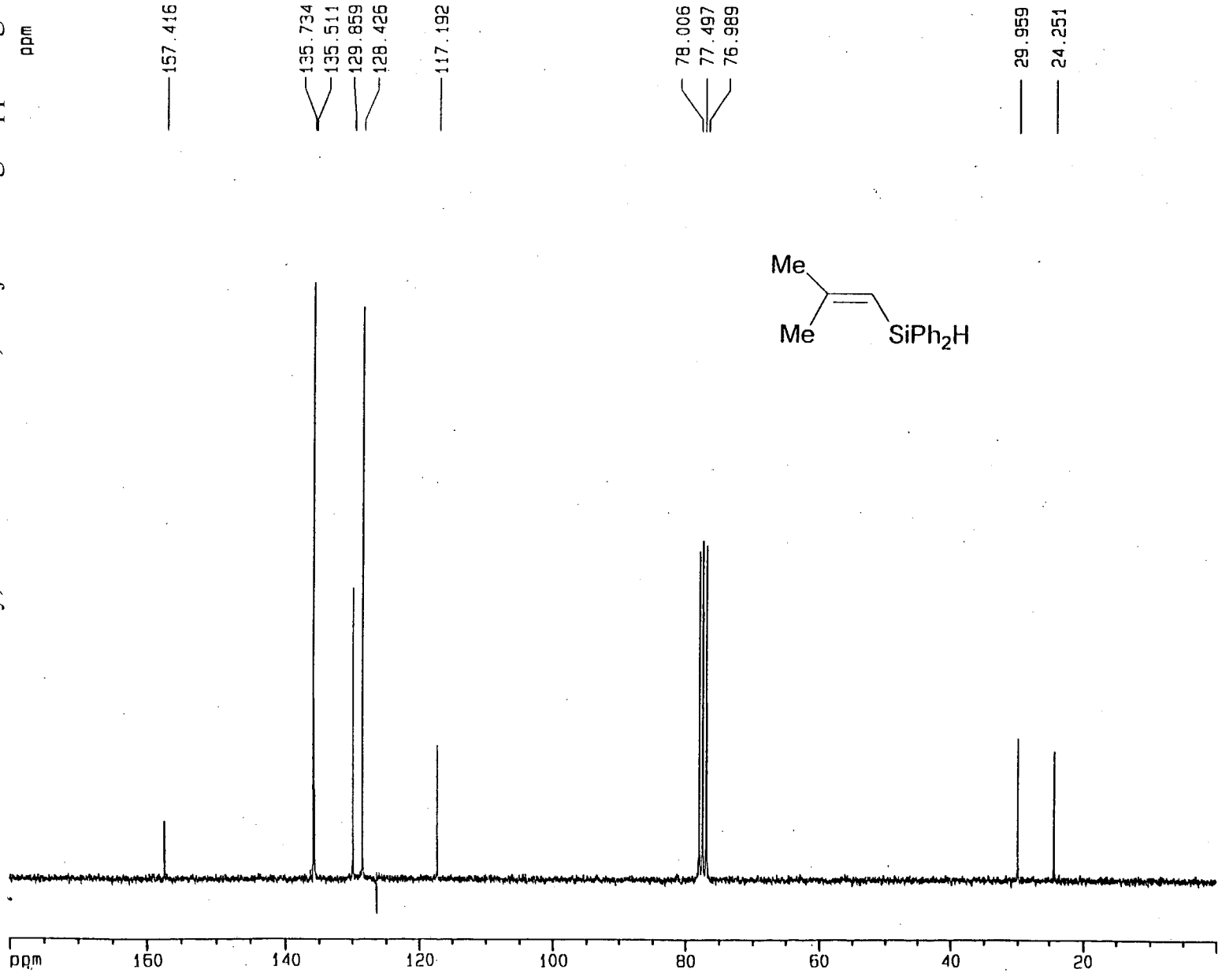
(Table 2, entry 17)

17

```
Current Data Parameters
NAME                  ksw
EXPNO                 127
PROCNO                1

F2 - Acquisition Parameters
Date_              500000
Time                8.33
INSTRUM             spect
PROBHD     5 mm Dual 13
PULPROG             zg30
TD                 32768
SOLVENT            CDC13
NS                    16
DS                     2
SWH           5144.033 Hz
FIDRES        0.156983 Hz
AQ            3.1850996 se
RG                   181
DW                97.200 us
DE                 6.00 us
TE                300.0 K
D1           1.00000000 se
P1                11.50 us
DE                 6.00 us
SFO1     250.1315447 MH
NUC1                  1H
PL1               -3.00 dB

F2 - Processing parameters
SI                 16384
SF        250.1300100 MH
WDW                   EM
SSB                    0
LB                0.30 Hz
GB                     0
PC                1.00

1D NMR plot parameters
CX                22.00 cm
F1P               9.000 pp
F1             2251.17 Hz
F2P               0.000 pp
F2                 0.00 Hz
PPMCM             0.40909 pp
HZCM        102.32591 Hz
```

Diphenyl(2-methyl-1-propheny1)silane

(Table 2, entry 17)



Current Data Parameters

NAME	ksw
EXPNO	128
PROCNO	1

F2 - Acquisition Parameters

Date_	500000
Time	8.37
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	2048
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec

F2 - Processing parameters

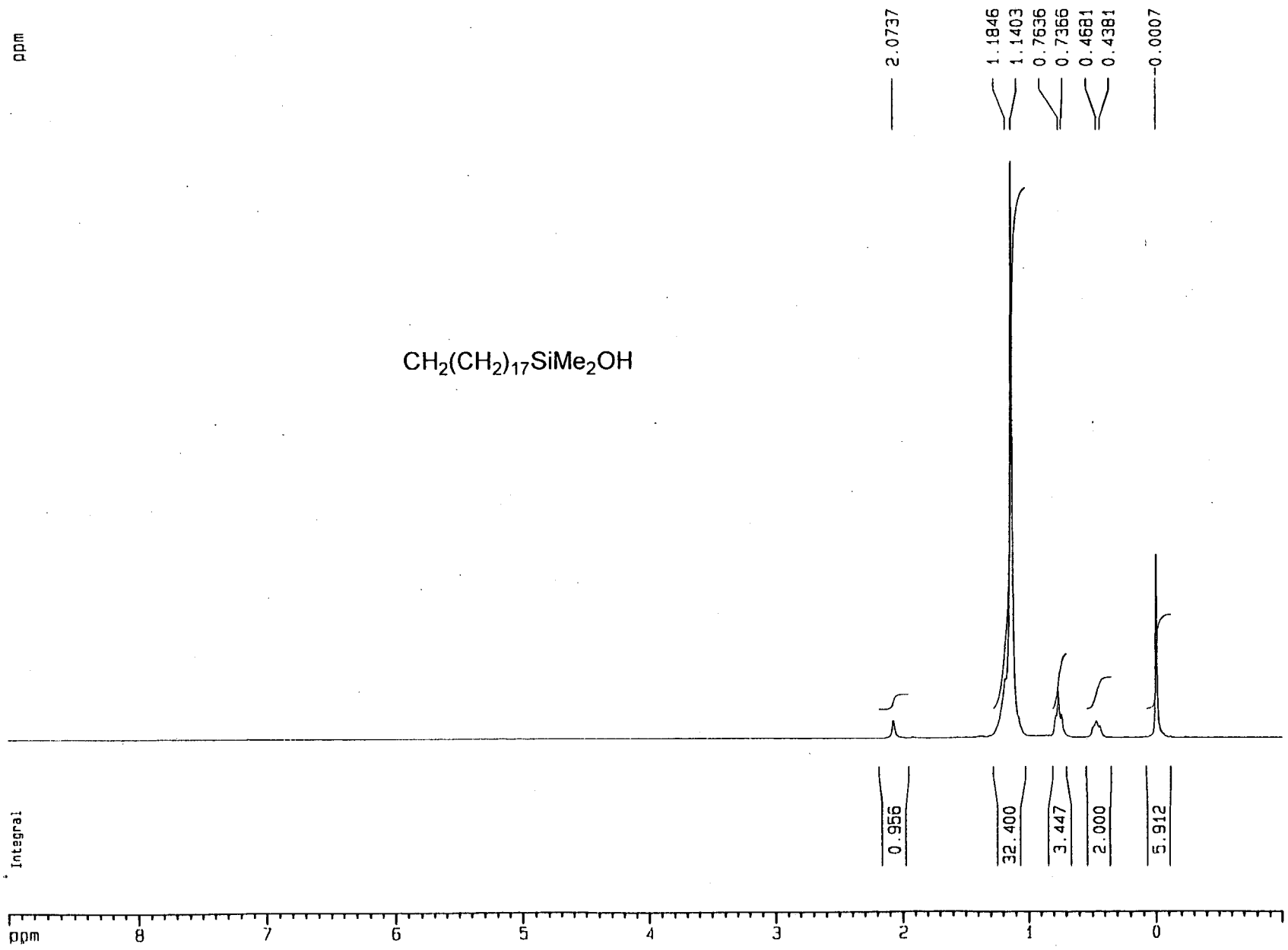
SI	32768
SF	62.8952100 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	20.00 cm
F1P	180.000 ppm
F1	11321.14 Hz
F2P	0.000 ppm
F2	0.00 Hz
PPMCM	9.00000 ppm/cm
HZCM	566.05688 Hz/cm

Dimethyloctadecylsilanol

(Table 2, entry 6)



Current Data Parameters

NAME	MM
EXPNO	701
PROCNO	1

F2 - Acquisition Parameters

Date_	500000
Time	3.43
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	16
DS	2
SWH	5144.033 Hz
FIDRES	0.156983 Hz
AQ	3.1850996 sec
RG	35.9
DW	97.200 use
DE	6.00 use
TE	300.0 K
D1	1.00000000 sec
P1	11.50 use
DE	6.00 use
SFO1	250.1315447 MHz
NUC1	1H
PL1	-3.00 dB

F2 - Processing parameters

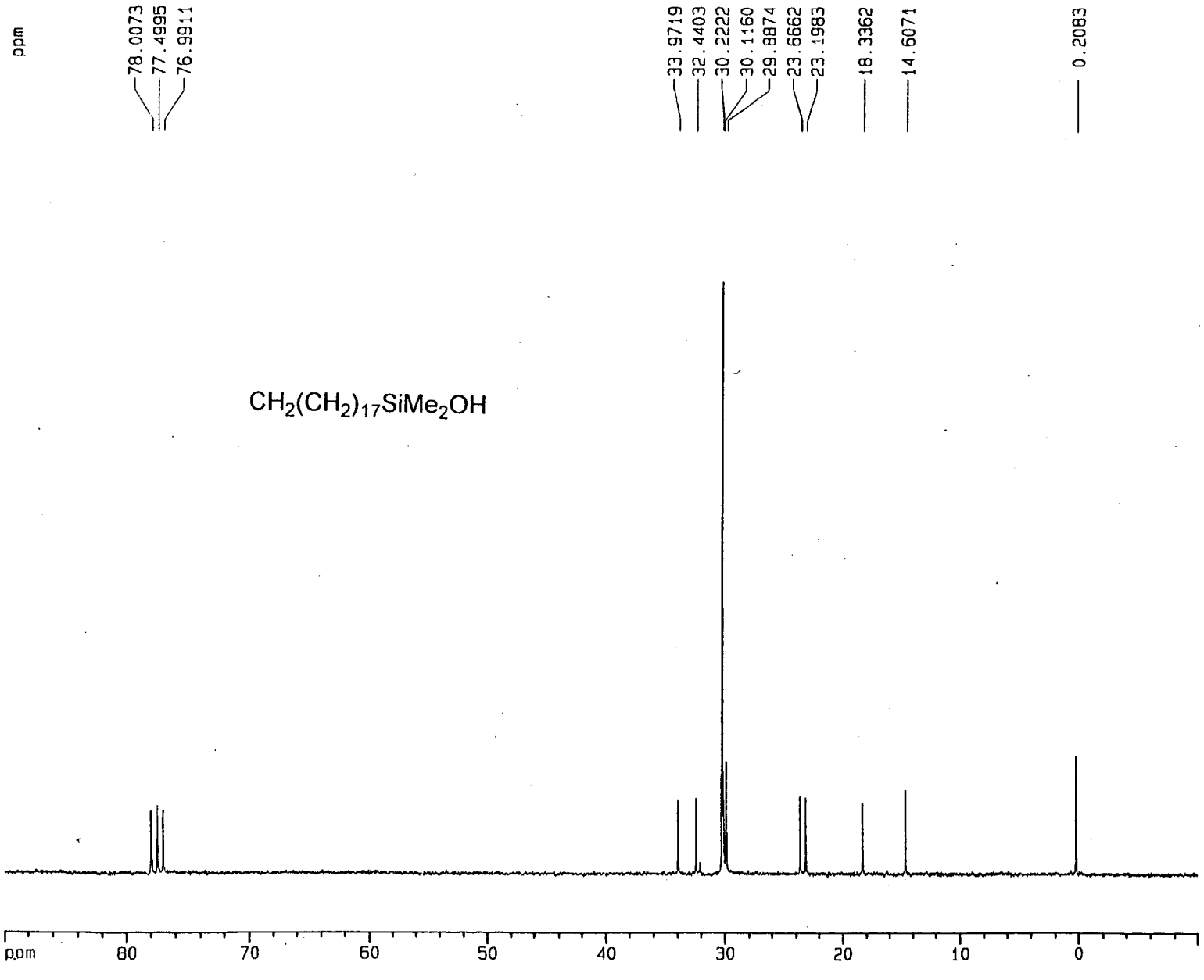
SI	16384
SF	250.1300354 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	22.00 cm
F1P	9.000 ppm
F1	2251.17 Hz
F2P	-1.000 ppm
F2	-250.13 Hz
PPMCM	0.45455 ppm
HZCM	113.69547 Hz/

Dimethyloctadecylsilanol

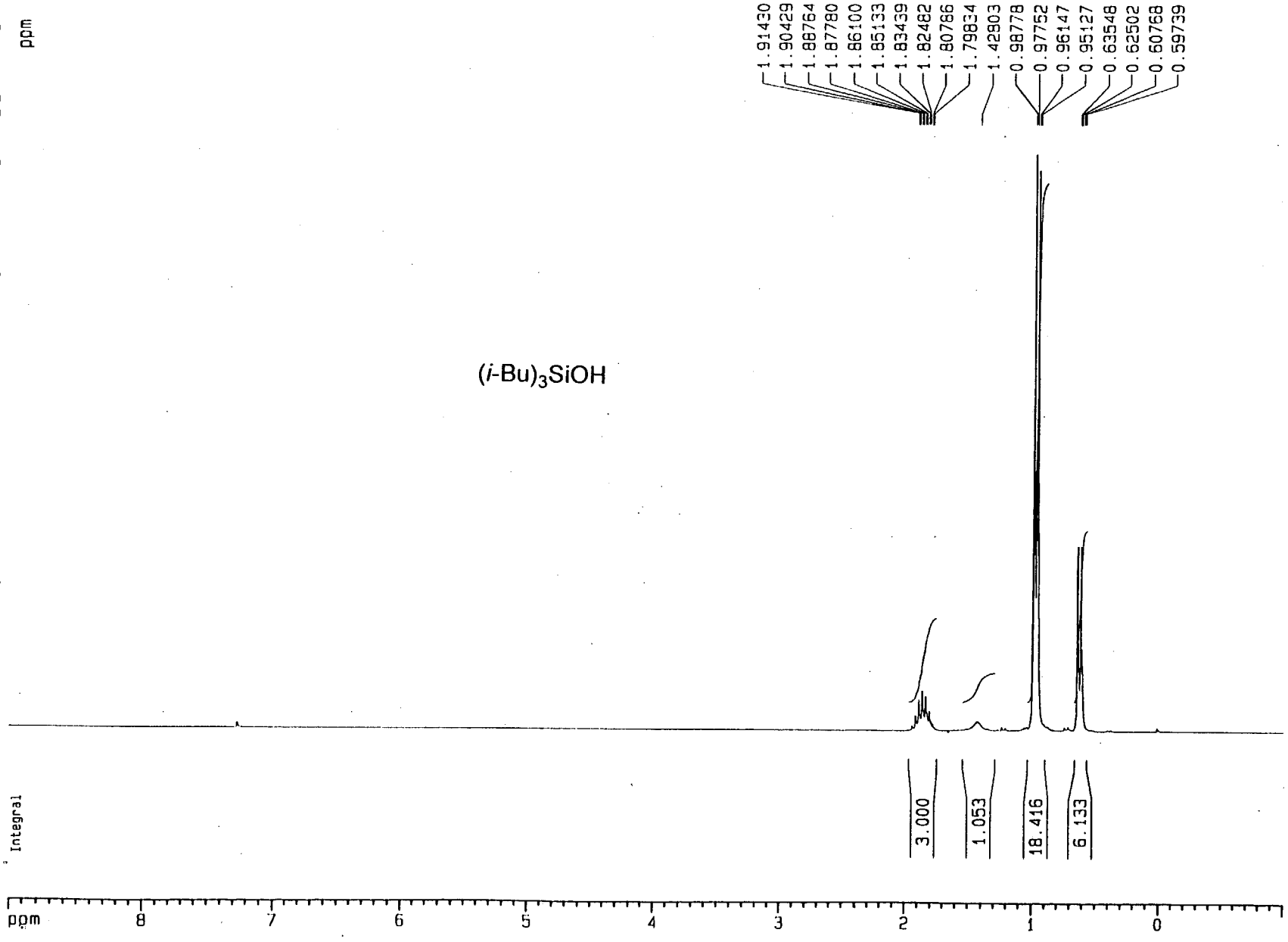
(Table 2, entry 6)



Current Data Parameters	
NAME	MM
EXPNO	702
PROCNO	1
F2 - Acquisition Parameters	
Date_	500000
Time	3.48
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	141
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	4096
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec
F2 - Processing parameters	
SI	32768
SF	62.8952087 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1P	90.000 ppm
F1	5660.57 Hz
F2P	-10.000 ppm
F2	-628.95 Hz
PPMCM	5.00000 ppm/cm
HZCM	314.47604 Hz/cm

Triisobutylsilanol

(Table 2, entry 8)



Current Data Parameters

NAME	mm
EXPNO	722
PROCNO	1

F2 - Acquisition Parameter

Date_	500000
Time	1.42
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	16
DS	2
SWH	5144.033 Hz
FIDRES	0.156983 Hz
AQ	3.1850996 se
RG	71.8
DW	97.200 us
DE	6.00 us
TE	300.0 K
D1	1.00000000 se
P1	11.50 us
DE	6.00 us
SFO1	250.1315447 MH
NUC1	1H
PL1	-3.00 dB

F2 - Processing parameters

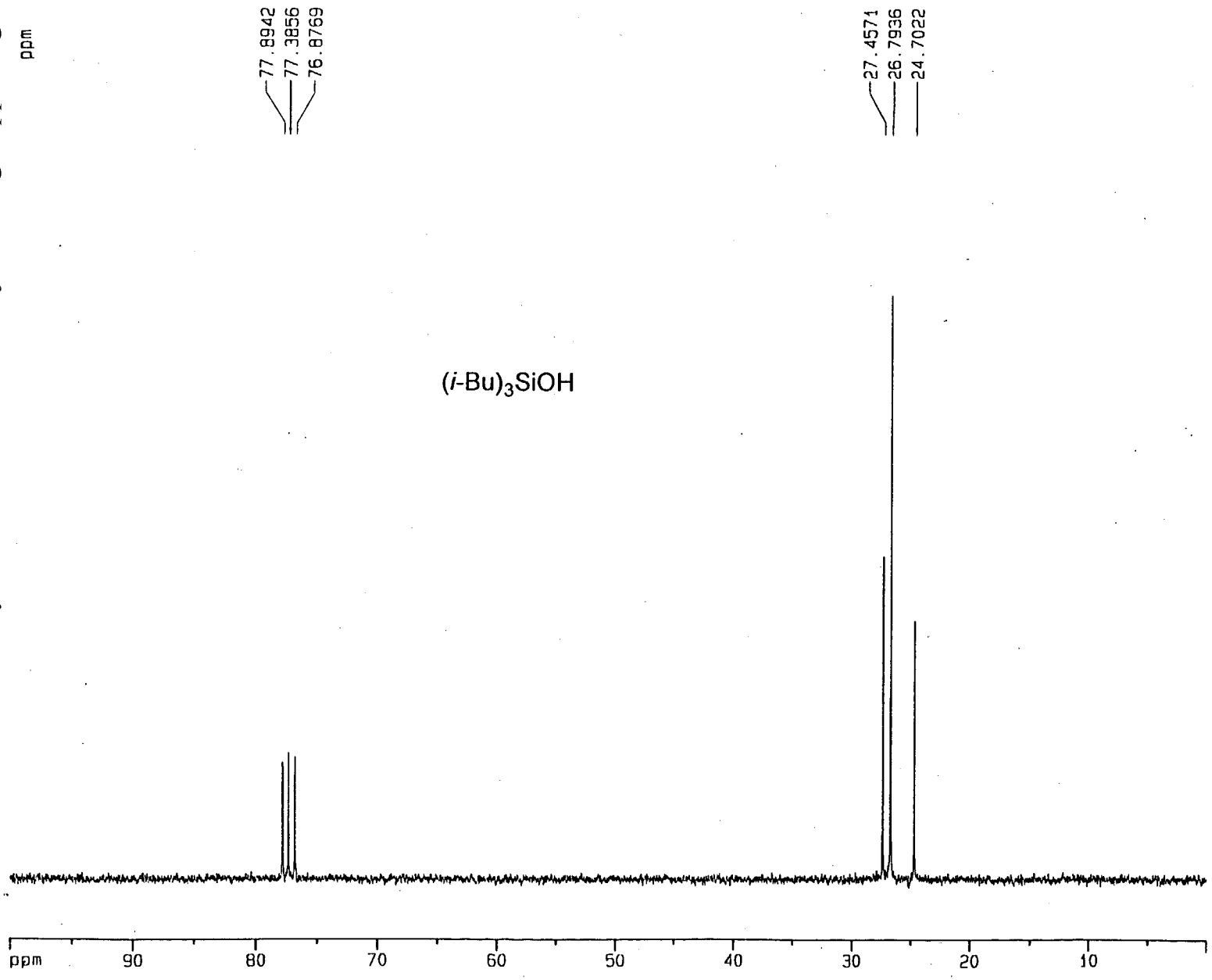
SI	16384
SF	250.1300046 MH
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	22.00 cm
F1P	9.000 pp
F1	2251.17 Hz
F2P	-1.000 pp
F2	-250.13 Hz
PPMCM	0.45455 pp
HZCM	113.69546 Hz

Triisobutylsilanol

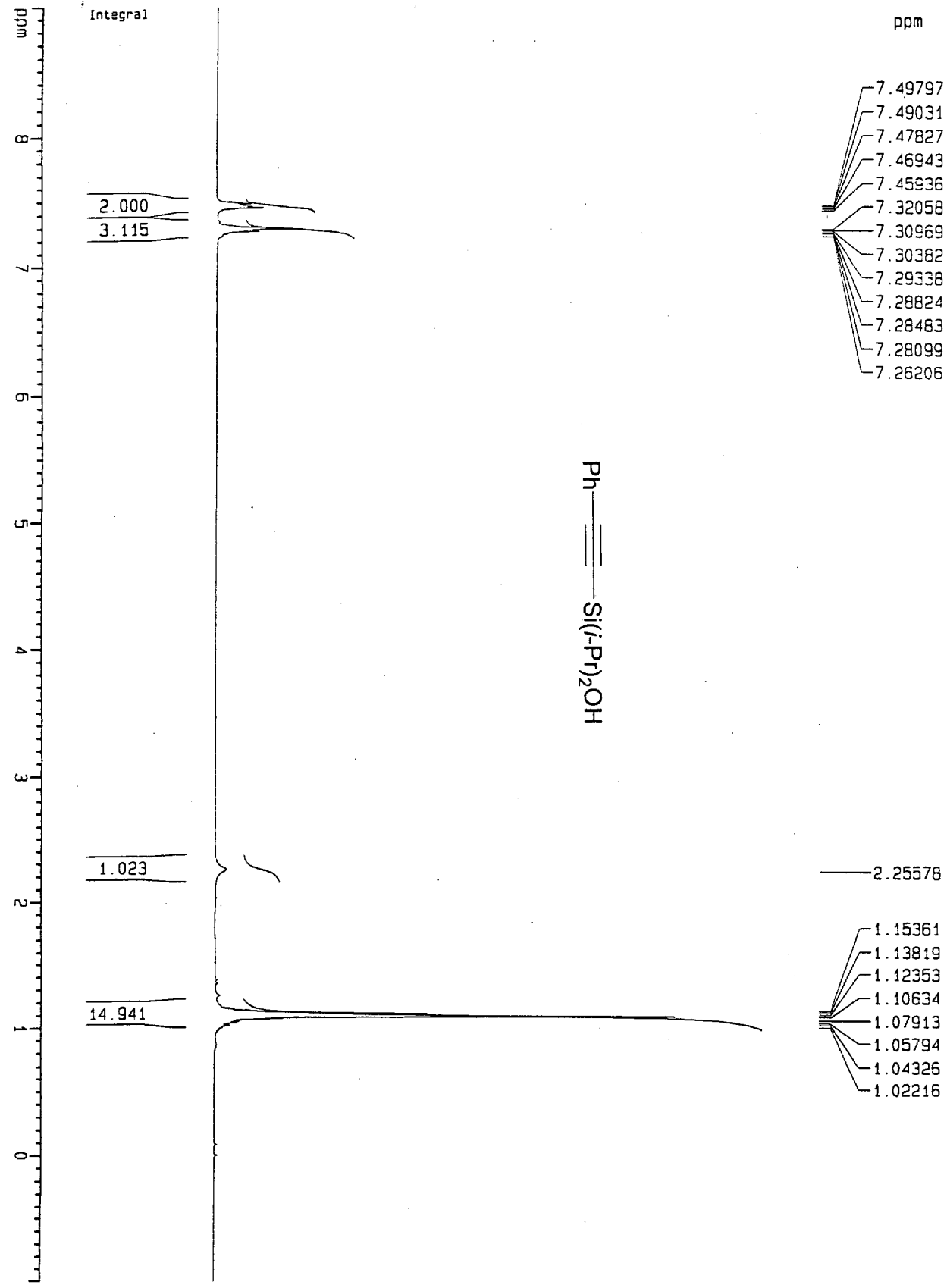
(Table 2, entry 8)



Current Data Parameters	
NAME	mm
EXPNO	723
PROCNO	1
F2 - Acquisition Parameters	
Date_	500000
Time	1.48
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	105
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	6502
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec
F2 - Processing parameters	
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1P	100.000 ppm
F1	6289.52 Hz
F2P	0.000 ppm
F2	0.00 Hz
PPMCM	5.00000 ppm/cm
HZCM	314.47607 Hz/cm

Diisopropyl(phenylethynyl)silanol

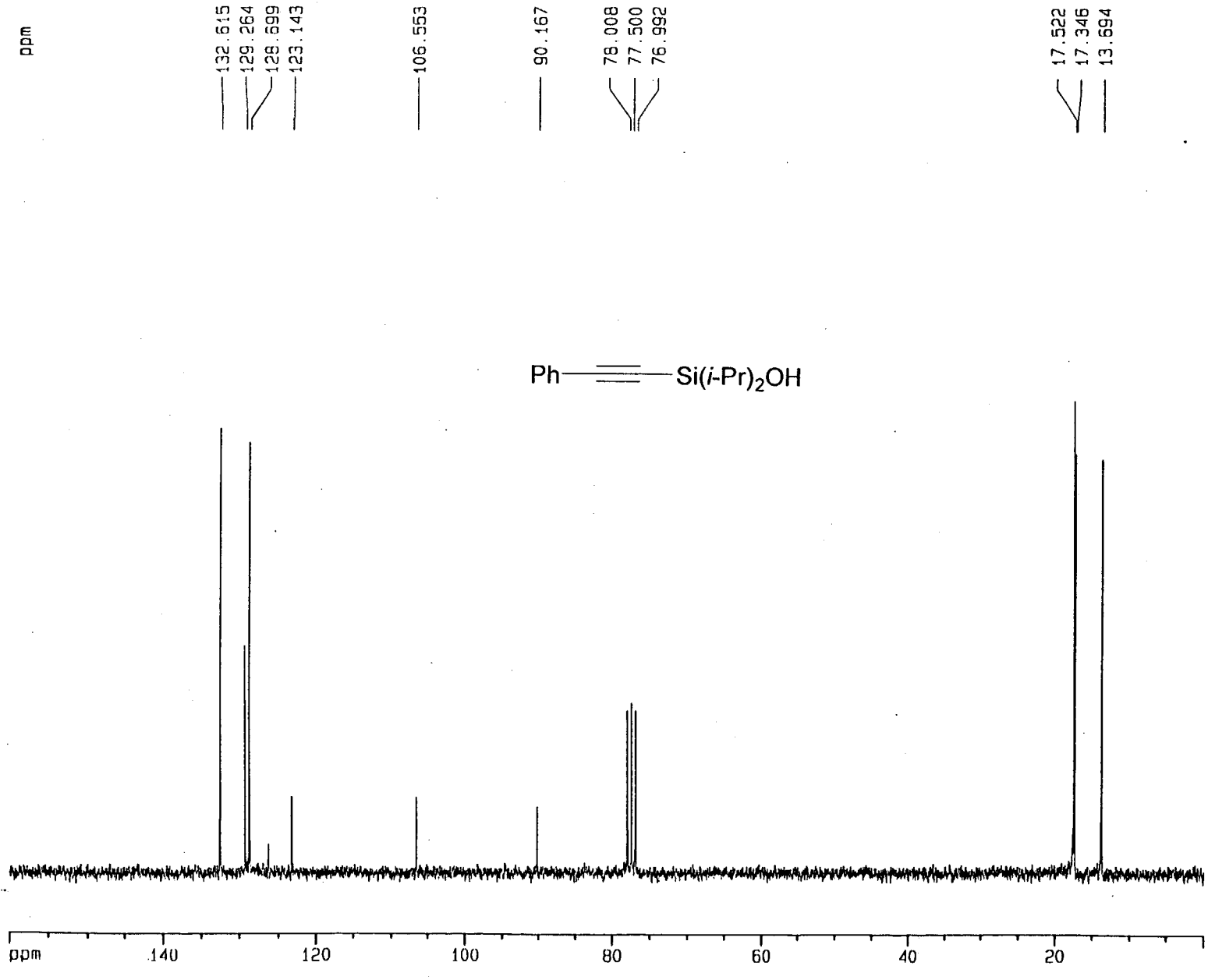
(Table 2, entry 10)




```
Current Data Parameters
NAME                  mm
EXPNO                187
PROCNO                 1

F2 - Acquisition Parameter
Date_          500000
Time              12.08
INSTRUM           spect
PROBHD  5 mm Dual 13
PULPROG           zg30
TD               32768
SOLVENT           CDCl3
NS                   16
DS                    2
SWH             5144.033 Hz
FIDRES          0.156983 Hz
AQ              3.1850996 se
RG                 71.8
DW                97.200 us
DE                 6.00 us
TE                300.0 K
D1              1.00000000 se
P1                11.50 us
DE                 6.00 us
SFO1    250.1315447 MH
NUC1                1H
PL1               -3.00 dB

F2 - Processing parameters
SI                 16384
SF          250.1300131 MH
WDW                   EM
SSB                    0
LB                  0.30 Hz
GB                     0
PC                  1.00

1D NMR plot parameters
CX                 22.00 cm
F1P                9.000 pp
F1              2251.17 Hz
F2P               -1.000 pp
F2              -250.13 Hz
PPMCM             0.45455 pp
HZCM            113.69547 Hz
```

Diisopropyl(phenylethynyl)silanol

(Table 2, entry 10)



Current Data Parameters

NAME	mm
EXPNO	188
PROCNO	1

F2 - Acquisition Parameters

Date_	500000
Time	12.11
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	88
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	4096
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec

F2 - Processing parameters

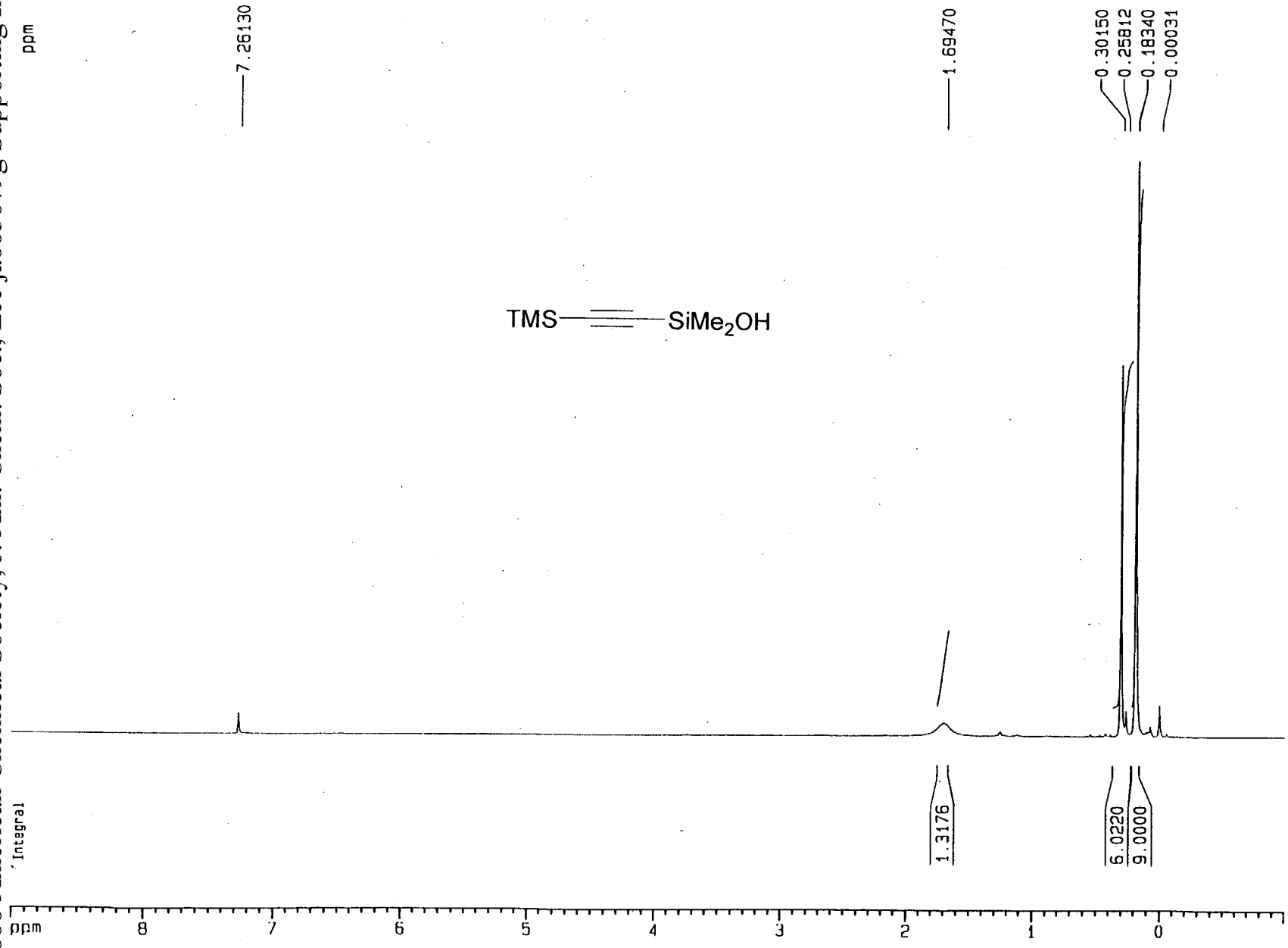
SI	32768
SF	62.8952118 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	20.00 cm
F1P	160.000 ppm
F1	10063.23 Hz
F2P	0.000 ppm
F2	0.00 Hz
PPMCM	8.00000 ppm/cm
HZCM	503.16168 Hz/cm

Dimethyl(2-trimethylsilylethynyl)silanol

(Table 2, entry 11)



Current Data Parameters

NAME	mm
EXPNO	680
PROCNO	1

F2 - Acquisition Parameters

Date_	500000
Time	5.10
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	16
DS	2
SWH	5144.033 Hz
FIDRES	0.156983 Hz
AQ	3.1850996 sec
RG	645.1
DW	97.200 use
DE	6.00 use
TE	300.0 K
D1	1.00000000 sec
P1	11.50 use
DE	6.00 use
SFO1	250.1315447 MHz
NUC1	1H
PL1	-3.00 dB

F2 - Processing parameters

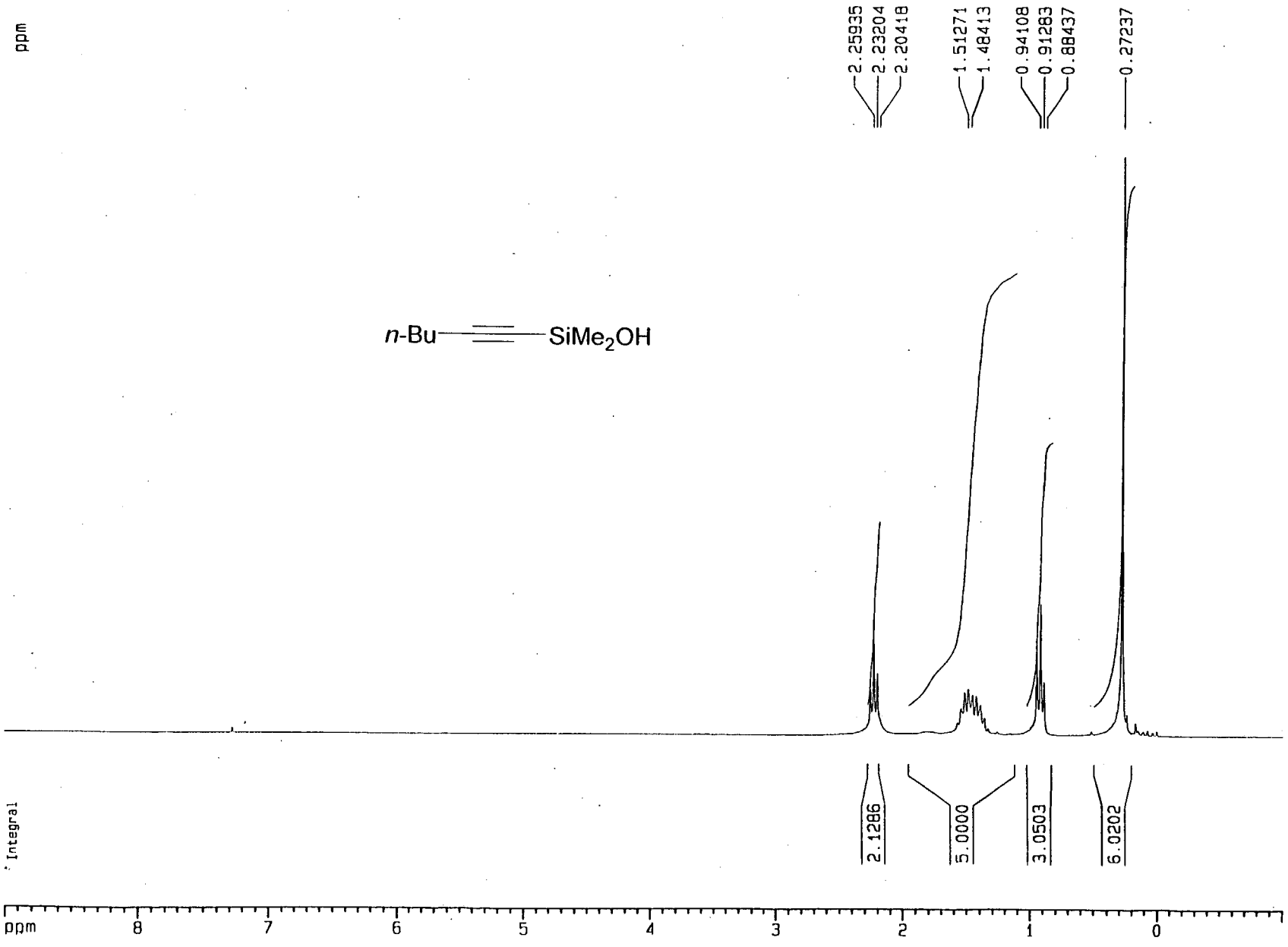
SI	16384
SF	250.1300068 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	22.00 cm
F1P	9.000 ppm
F1	2251.17 Hz
F2P	-1.000 ppm
F2	-250.13 Hz
PPMCM	0.45455 ppm
HZCM	113.69546 Hz/

Dimethyl(1-hexynyl)silanol

(Table 2, entry 12)



Current Data Parameters

NAME	mm
EXPNO	688
PROCNO	1

F2 - Acquisition Parameter

Date_	500000
Time	10.09
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	16
DS	2
SWH	5144.033 Hz
FIDRES	0.156983 Hz
AQ	3.1850996 se
RG	128
DW	97.200 us
DE	6.00 us
TE	300.0 K
D1	1.00000000 se
P1	11.50 us
DE	6.00 us
SFO1	250.1315447 MH
NUC1	1H
PL1	-3.00 dB

F2 - Processing parameters

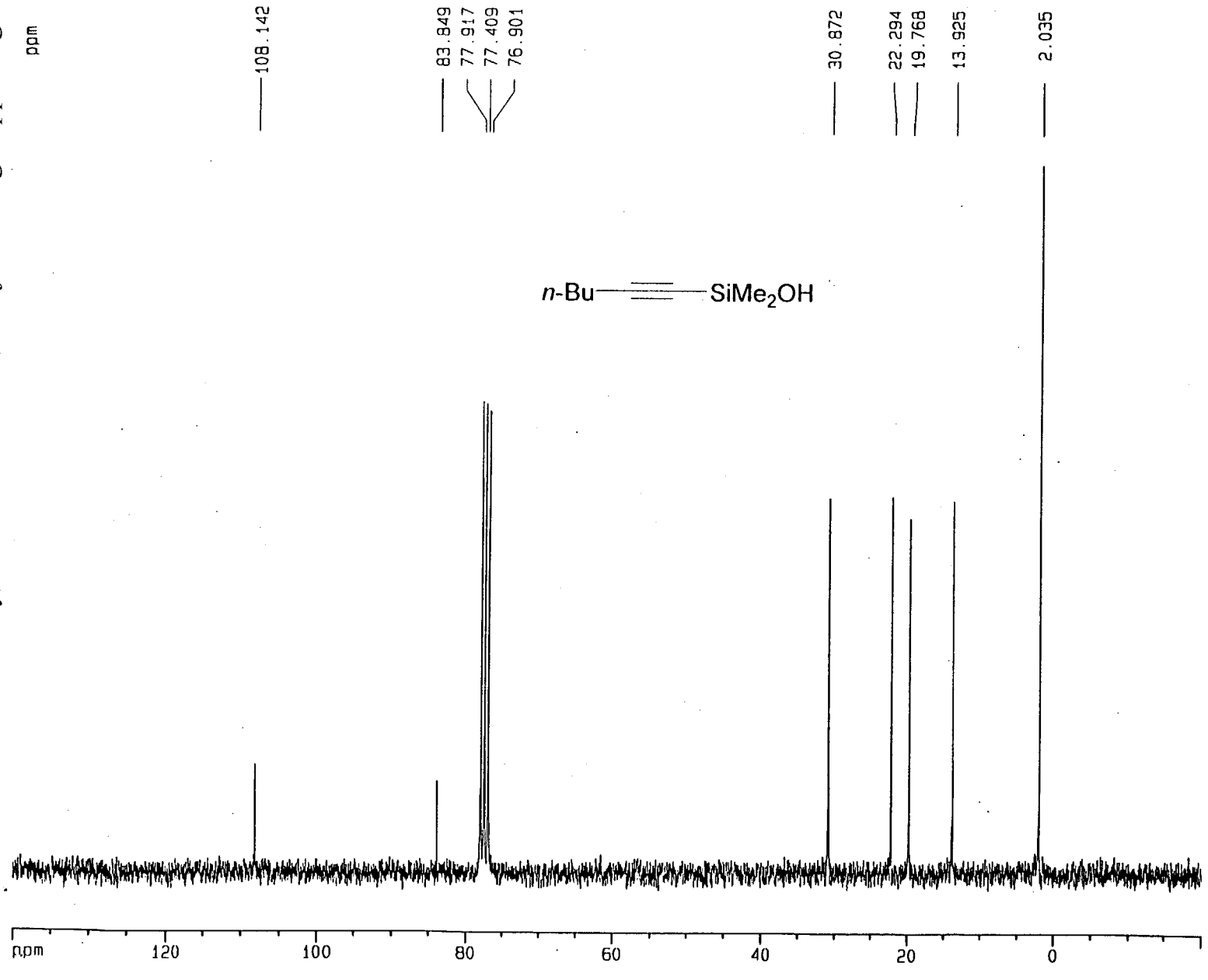
SI	16384
SF	250.1300043 MH
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	22.00 cm
F1P	9.000 pp
F1	2251.17 Hz
F2P	-1.000 pp
F2	-250.13 Hz
PPMCM	0.45455 pp
HZCM	113.69546 Hz

Dimethyl(1-hexynyl)silanol

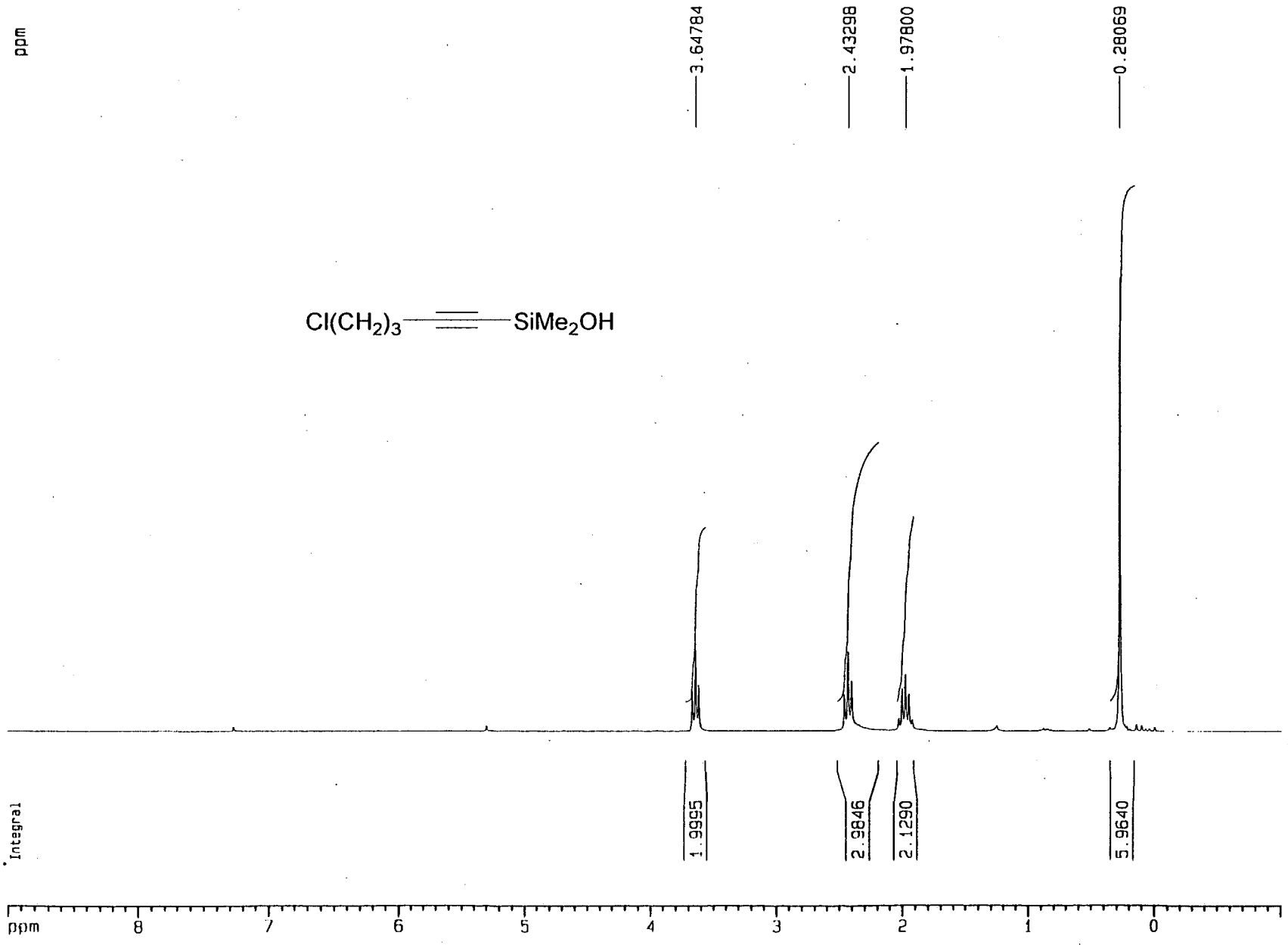
(Table 2, entry 12)



Current Data Parameters	
NAME	mm
EXPNO	689
PROCNO	1
F2 - Acquisition Parameters	
Date_	500000
Time	10.17
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	458
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec
F2 - Processing parameters	
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1P	140.000 ppm
F1	8805.33 Hz
F2P	-20.000 ppm
F2	-1257.90 Hz
PPMCM	8.00000 ppm/cm
HZCM	503.16171 Hz/cm

Dimethyl(5-chloropentynyl)silanol

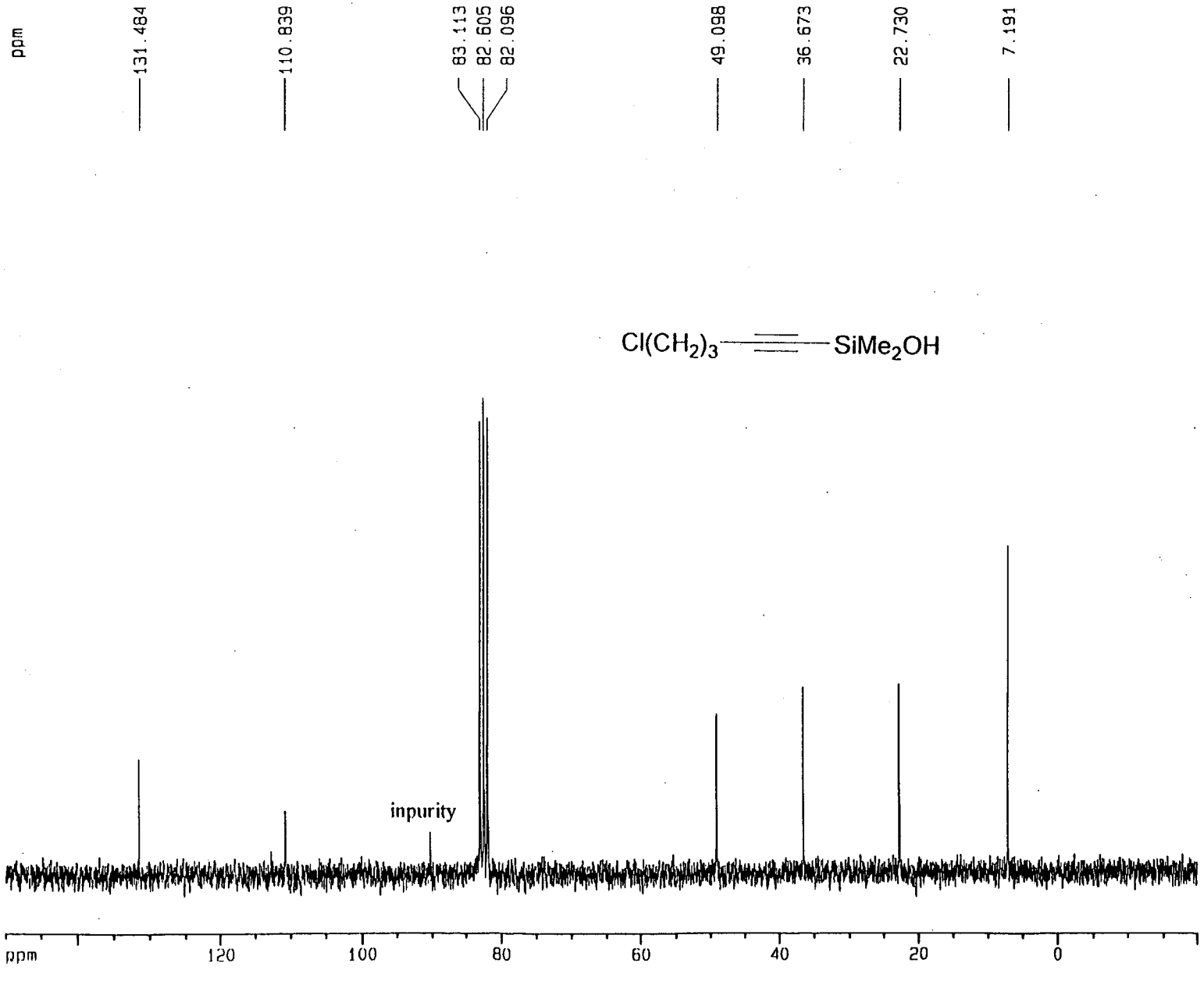
(Table 2, entry 13)




```
Current Data Parameters
NAME                  mm
EXPNO                655
PROCNO                 1

F2 - Acquisition Parameter
Date_             500000
Time                7.42
INSTRUM            spect
PROBHD     5 mm Dual 13
PULPROG             zg30
TD                 32768
SOLVENT            CDCl3
NS                    16
DS                     2
SWH             5144.033 Hz
FIDRES          0.156983 Hz
AQ              3.1850996 se
RG                   128
DW                97.200 us
DE                 6.00 us
TE                300.0 K
D1             1.00000000 se
P1                11.50 us
DE                 6.00 us
SFO1          250.1315447 MH
NUC1                  1H
PL1                -3.00 dB

F2 - Processing parameters
SI                 16384
SF            250.1300034 MH
WDW                   EM
SSB                    0
LB                0.30 Hz
GB                     0
PC                  1.00

1D NMR plot parameters
CX                22.00 cm
F1P               9.000 pp
F1              2251.17 Hz
F2P              -1.000 pp
F2             -250.13 Hz
PPMCM           0.45455 pp
HZCM           113.69546 Hz
```

Dimethyl(5-chloropentynyl)silanol

(Table 2, entry 13)



Current Data Parameters

NAME	mm
EXPNO	648
PROCNO	1

F2 - Acquisition Parameters

Date_	500000
Time	5.19
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	434
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec

F2 - Processing parameters

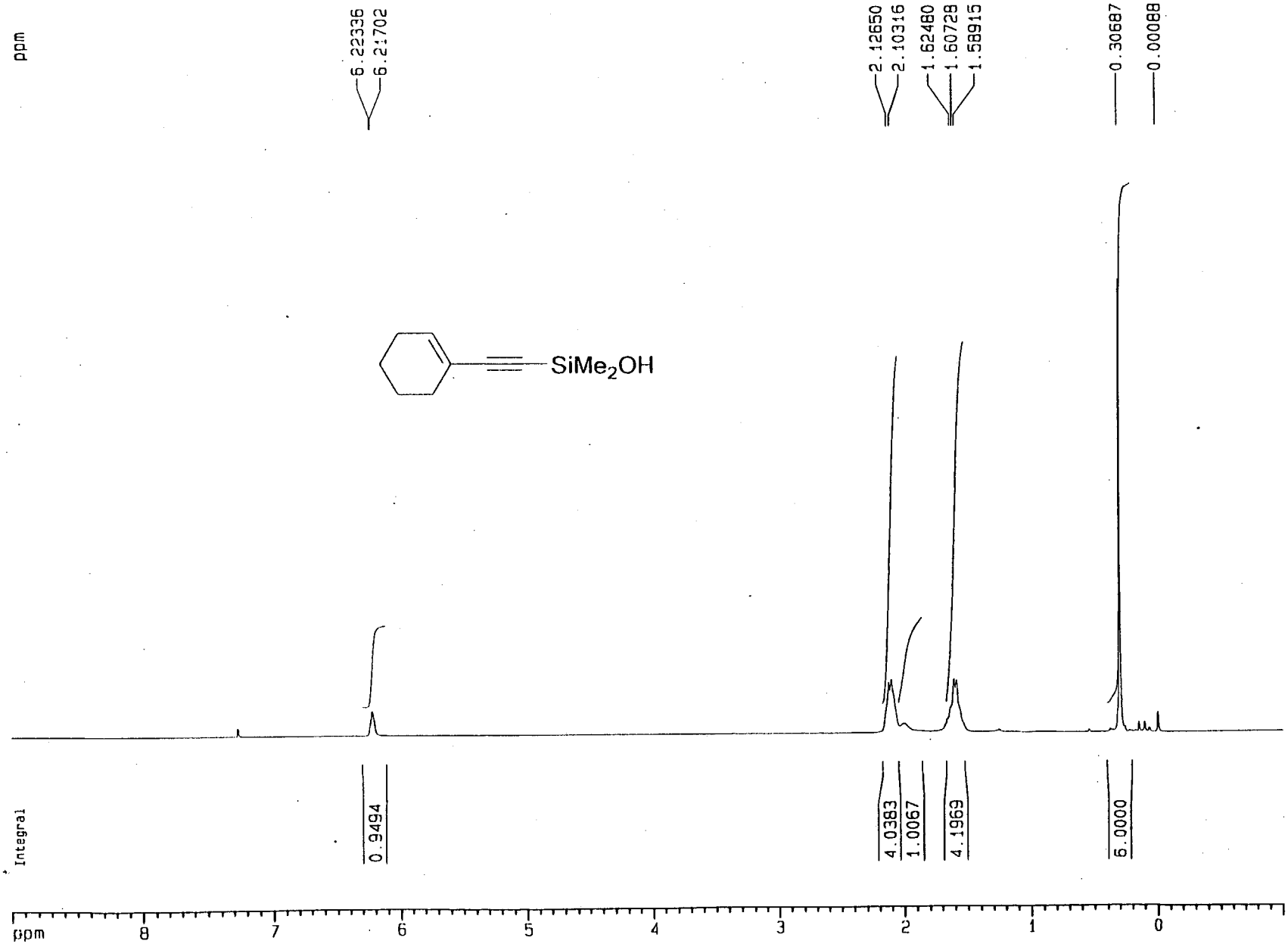
SI	32768
SF	62.8948876 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	20.00 cm
F1P	150.000 ppm
F1	9434.23 Hz
F2P	-20.000 ppm
F2	-1257.90 Hz
PPMCM	8.50000 ppm/cm
HZCM	534.60651 Hz/cm

Dimethyl[(1-cyclohexenyl)ethynyl]silanol

(Table 2, entry 14)



Current Data Parameters

NAME	mm
EXPNO	653
PROCNO	1

F2 - Acquisition Parameter

Date_	500000
Time	7.26
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	16
DS	2
SWH	5144.033 Hz
FIDRES	0.156983 Hz
AQ	3.1850996 se
RG	228.1
DW	97.200 us
DE	6.00 us
TE	300.0 K
D1	1.00000000 se
P1	11.50 us
DE	6.00 us
SFO1	250.1315447 MH
NUC1	1H
PL1	-3.00 dB

F2 - Processing parameters

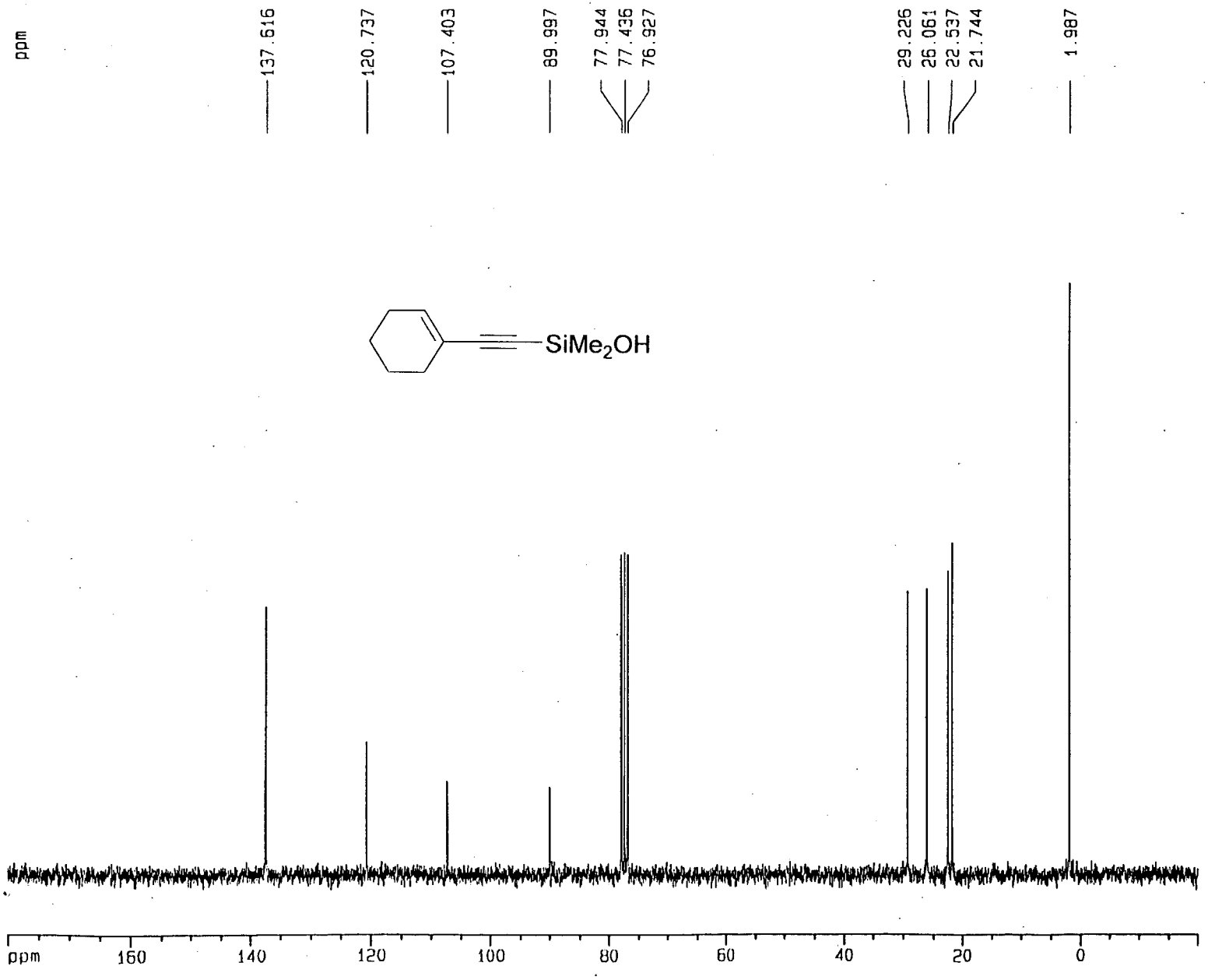
SI	16384
SF	250.1300062 MH
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	22.00 cm
F1P	9.000 pp
F1	2251.17 Hz
F2P	-1.000 pp
F2	-250.13 Hz
PPMCM	0.45455 pp
HZCM	113.69546 Hz

Dimethyl[(1-cyclohexenyl)ethynyl]silanol

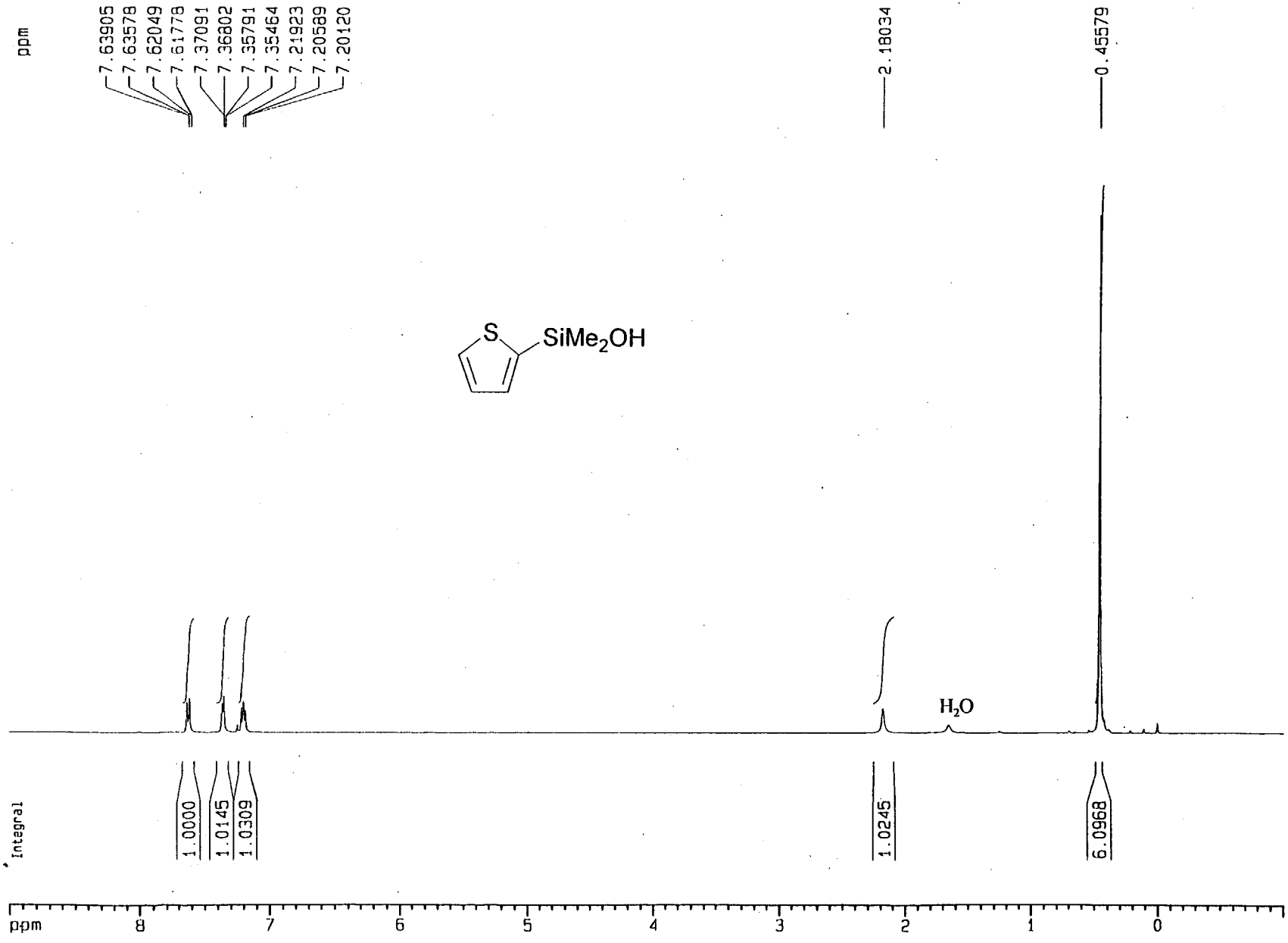
(Table 2, entry 14)



Current Data Parameters	
NAME	mm
EXPNO	650
PROCNO	1
F2 - Acquisition Parameters	
Date_	500000
Time	5.48
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	201
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec
F2 - Processing parameters	
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1P	180.000 ppm
F1	11321.14 Hz
F2P	-20.000 ppm
F2	-1257.90 Hz
PPMCM	10.00000 ppm/cm
HZCM	628.95215 Hz/cm

Dimethyl(2-thienyl)silanol

(Table 2, entry 15)



Current Data Parameters

NAME	mm
EXPNO	671
PROCNO	1

F2 - Acquisition Parameter

Date_	500000
Time	15.23
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	16
DS	2
SWH	5144.033 Hz
FIDRES	0.156983 Hz
AQ	3.1850996 se
RG	362
DW	97.200 us
DE	6.00 us
TE	300.0 K
D1	1.00000000 se
P1	11.50 us
DE	6.00 us
SFO1	250.1315447 MH
NUC1	1H
PL1	-3.00 dB

F2 - Processing parameters

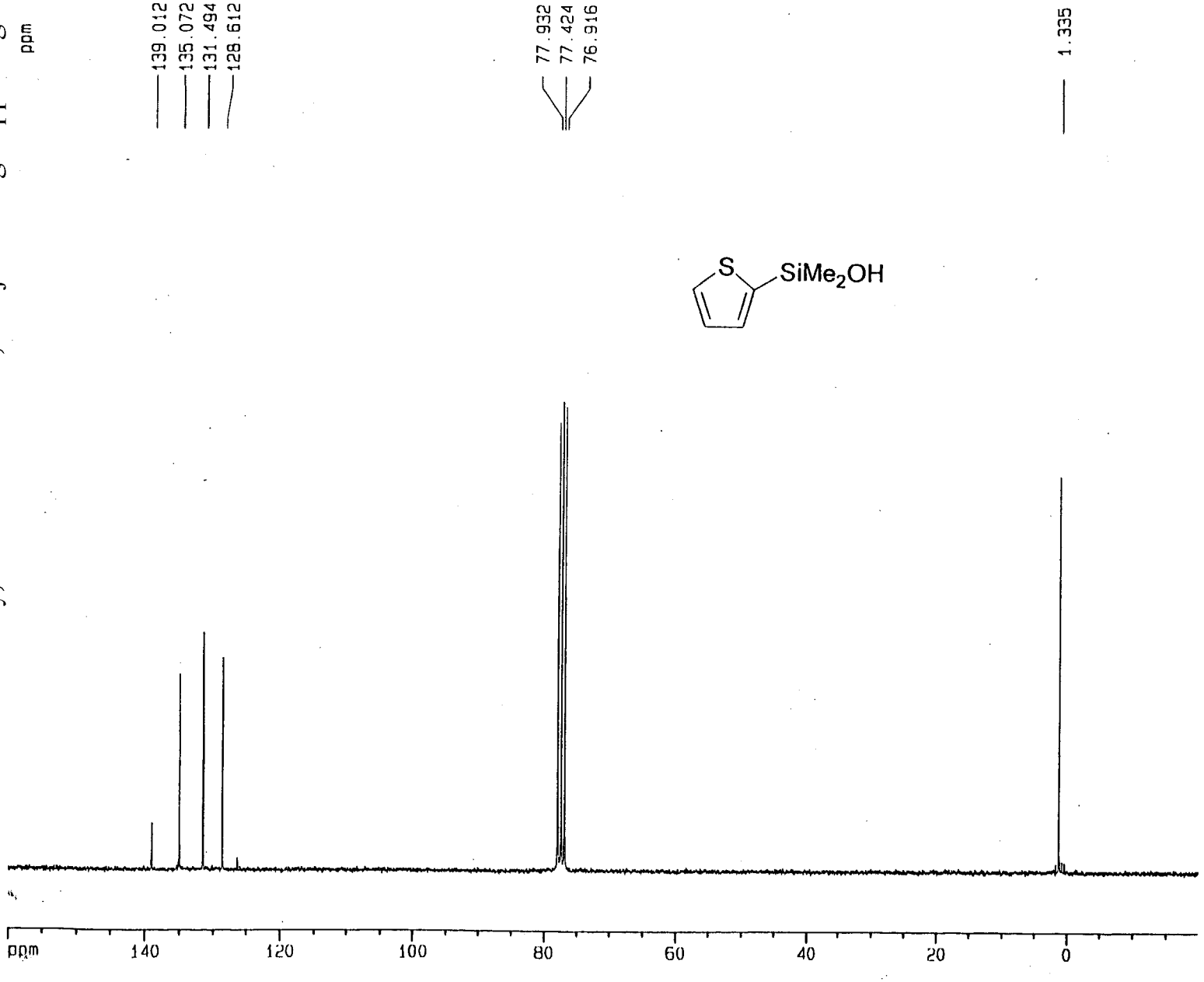
SI	16384
SF	250.1300097 MH
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	22.00 cm
F1P	9.000 pp
F1	2251.17 Hz
F2P	-1.000 pp
F2	-250.13 Hz
PPMCM	0.45455 pp
HZCM	113.69546 Hz

Dimethyl(2-thienyl)silanol

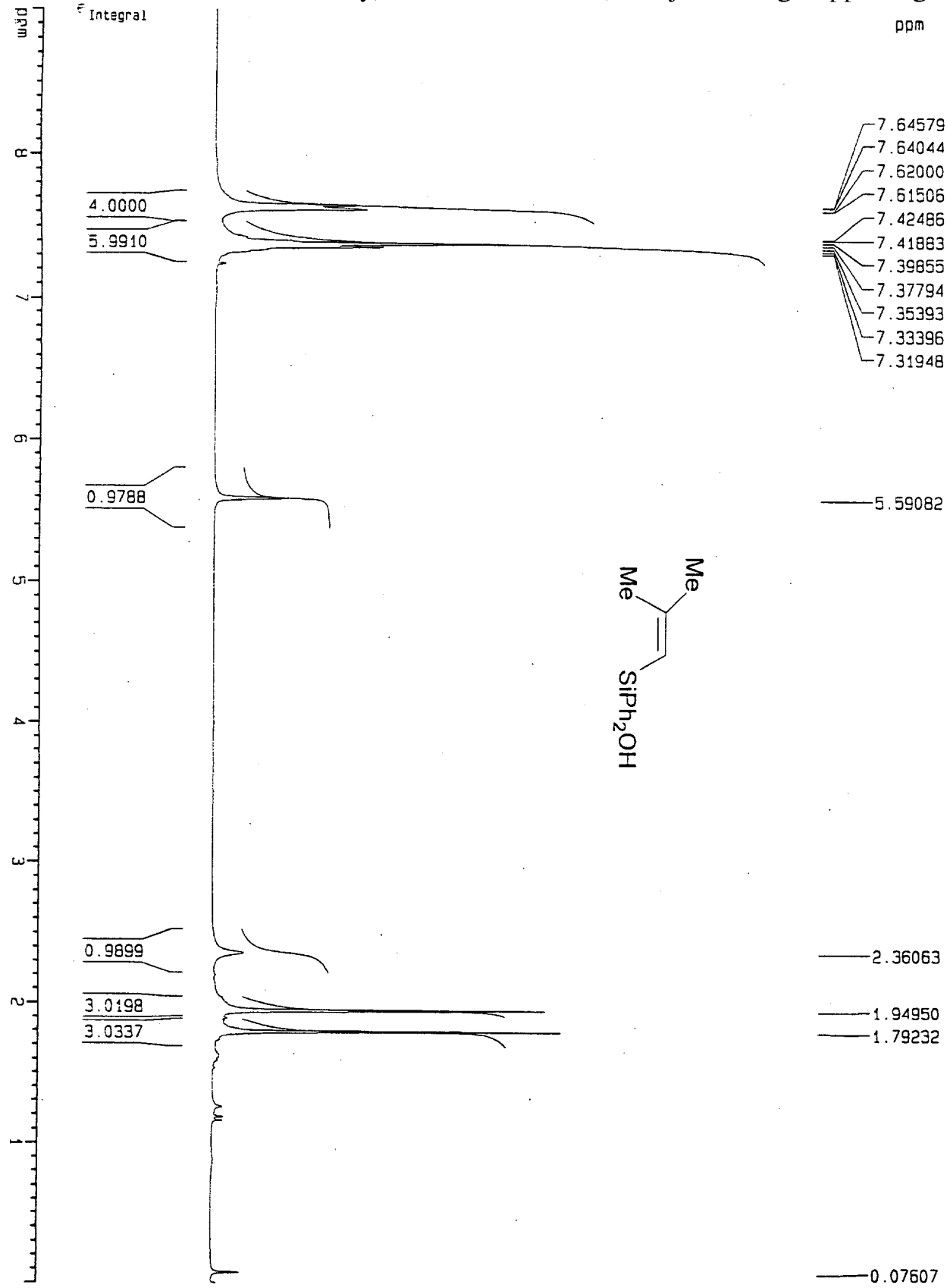
(Table 2, entry 15)



Current Data Parameters	
NAME	mm
EXPNO	672
PROCNO	1
F2 - Acquisition Parameters	
Date_	500000
Time	15.29
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	7168
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec
F2 - Processing parameters	
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1P	160.000 ppm
F1	10063.23 Hz
F2P	-20.000 ppm
F2	-1257.90 Hz
PPMCM	9.00000 ppm/cm
HZCM	566.05695 Hz/cm

Diphenyl(2-methyl-1-propenyl)silanol

(Table 2, entry 17)



Current Data Parameters
NAME mm
EXPNO 463
PROCNO 1

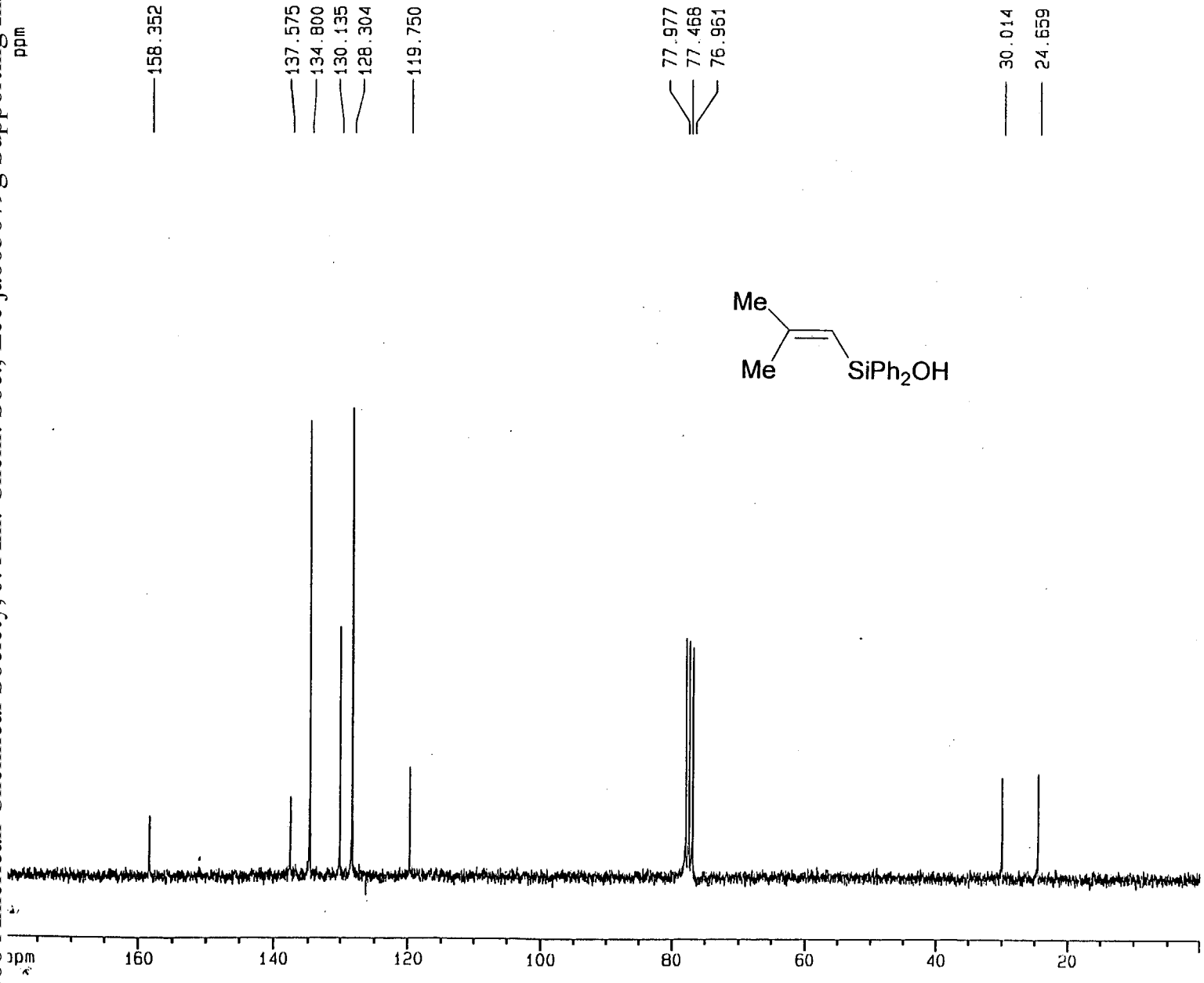
F2 - Acquisition Parameters
Date_ 500000
Time 22.18
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 5144.033 Hz
FIDRES 0.156983 Hz
AQ 3.1850996 se
RG 256
DW 97.200 us
DE 6.00 us
TE 300.0 K
D1 1.00000000 se
P1 11.50 us
DE 6.00 us
SFO1 250.1315447 MH
NUC1 1H
PL1 -3.00 dB

F2 - Processing parameters
SI 16384
SF 250.1300138 MH
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 22.00 cm
F1P 9.000 ppm
F1 2251.17 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.40909 ppm
HZCM 102.32592 Hz

Diphenyl(2-methyl-1-propenyl)silanol

(Table 2, entry 17)



Current Data Parameters	
NAME	mm
EXPNO	483
PROCNO	1
F2 - Acquisition Parameters	
Date_	500000
Time	13.26
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	7944
DS	2
SWH	19841.270 Hz
FIDRES	0.302754 Hz
AQ	1.6515572 sec
RG	8192
DW	25.200 usec
DE	6.00 usec
TE	300.0 K
D12	0.00002000 sec
PL13	23.00 dB
D1	1.00000000 sec
CPDPRG2	temp
P31	100.00 usec
SFO2	250.1310005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	19.00 dB
P1	7.60 usec
DE	6.00 usec
SFO1	62.9031573 MHz
NUC1	13C
PL1	-3.00 dB
D11	0.03000000 sec
F2 - Processing parameters	
SI	32768
SF	62.8952140 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40
1D NMR plot parameters	
CX	20.00 cm
F1P	180.000 ppm
F1	11321.14 Hz
F2P	0.000 ppm
F2	0.00 Hz
PPMCM	9.00000 ppm/cm
HZCM	566.05695 Hz/cm