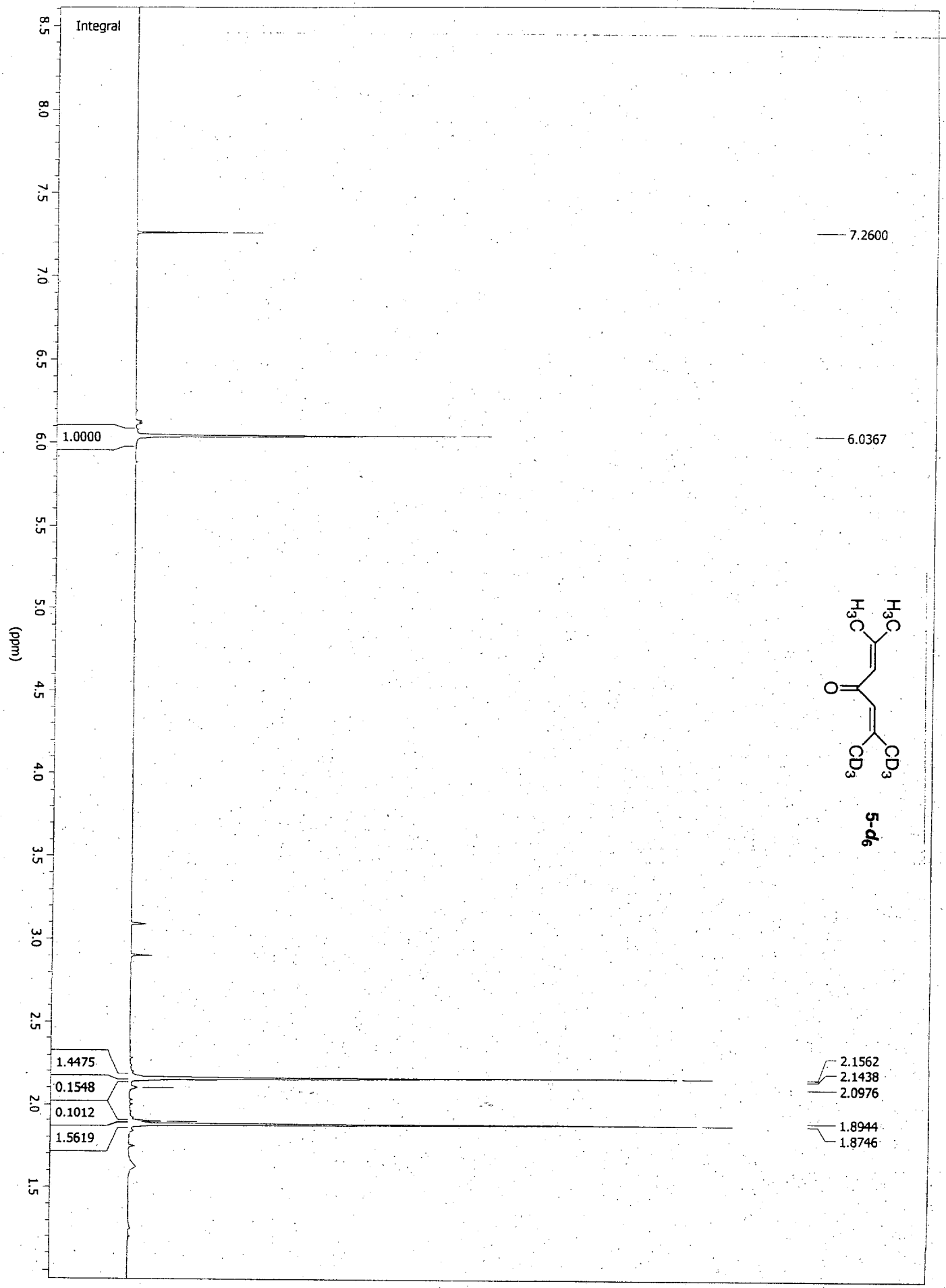
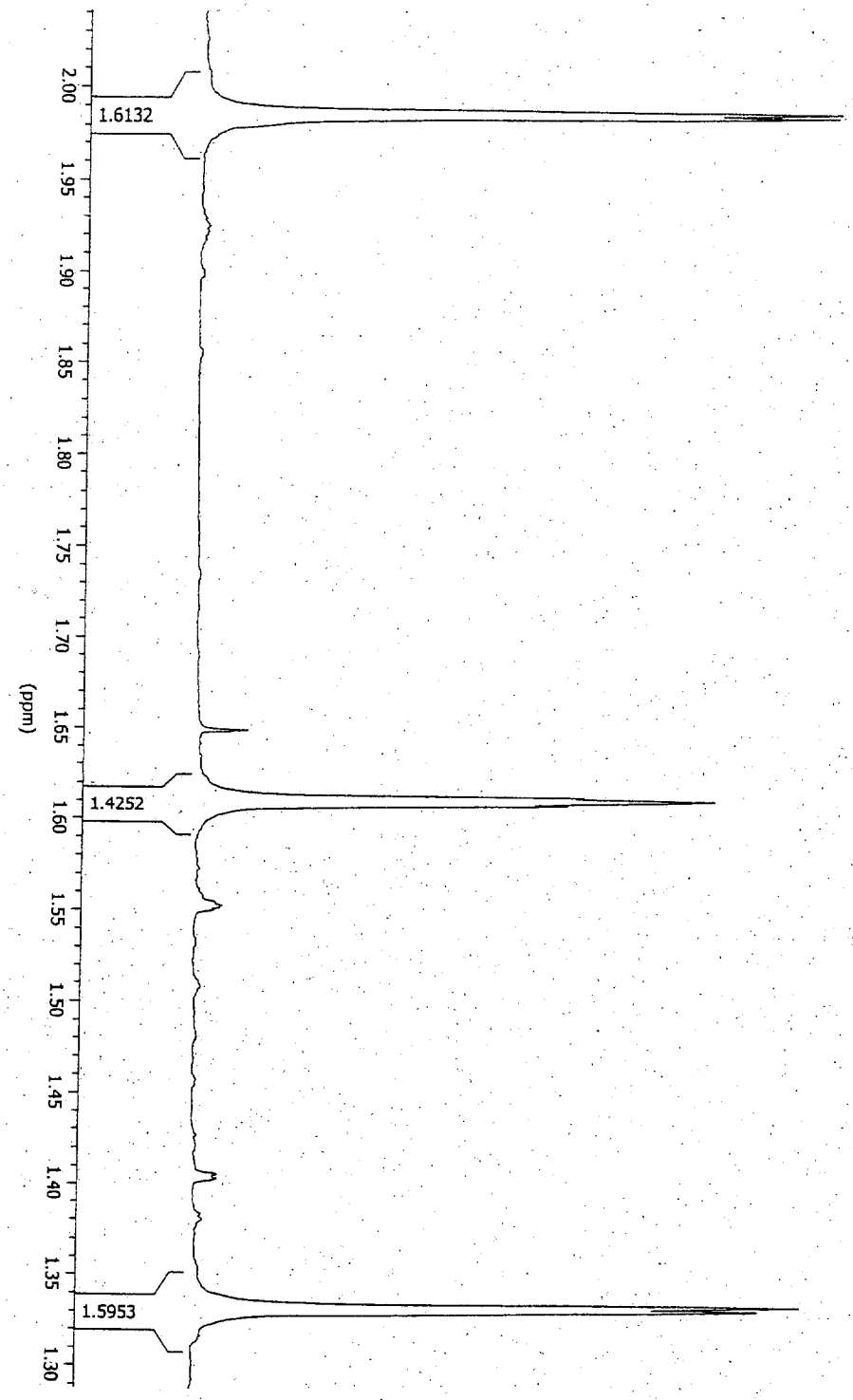
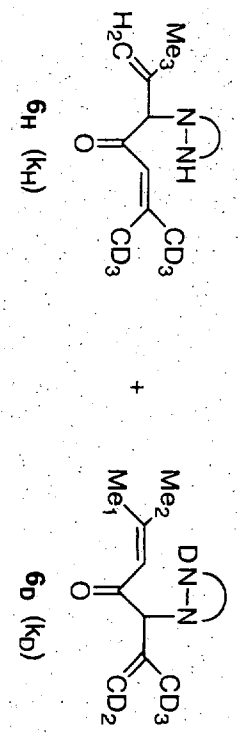
S1	^{1}H NMR ($CDCl_3$) spectrum of **5-d$_6$**
S2	^{1}H NMR (C_6D_6) spectrum (between 1.3 and 2.00ppm) of **6$_H$** and **6$_D$** in the reaction of **5-d$_6$** with MTAD in MeOH.
S3	^{1}H NMR (C_6D_6) spectrum (between 4.8 and 5.8ppm) of **6$_H$** and **6$_D$** in the reaction of **5-d$_6$** with MTAD in MeOH.
S4	^{1}H NMR (C_6D_6) spectrum of **6$_H$** and **6$_D$** in the reaction of **5-d$_6$** with MTAD in acetone.
S5	^{1}H NMR (C_6D_6) spectrum (between 1.3 and 2.00ppm) of **6$_H$** and **6$_D$** in the reaction of **5-d$_6$** with MTAD in acetone.
S6	^{1}H NMR ($CDCl_3$) spectrum of **7-d$_3$**
S7	^{1}H NMR ($CDCl_3$) spectrum of **7-d$_3$** (between 1.8 and 2.2ppm, 96% isomeric purity)
S8	^{1}H NMR (C_6D_6) spectrum (between 2.27 and 4.8ppm) of **8$_{syn}$** and **8$_{anti}$** in the reaction of **7-d$_3$** with MTAD in benzene.
S9	HRMS of **6$_H$**





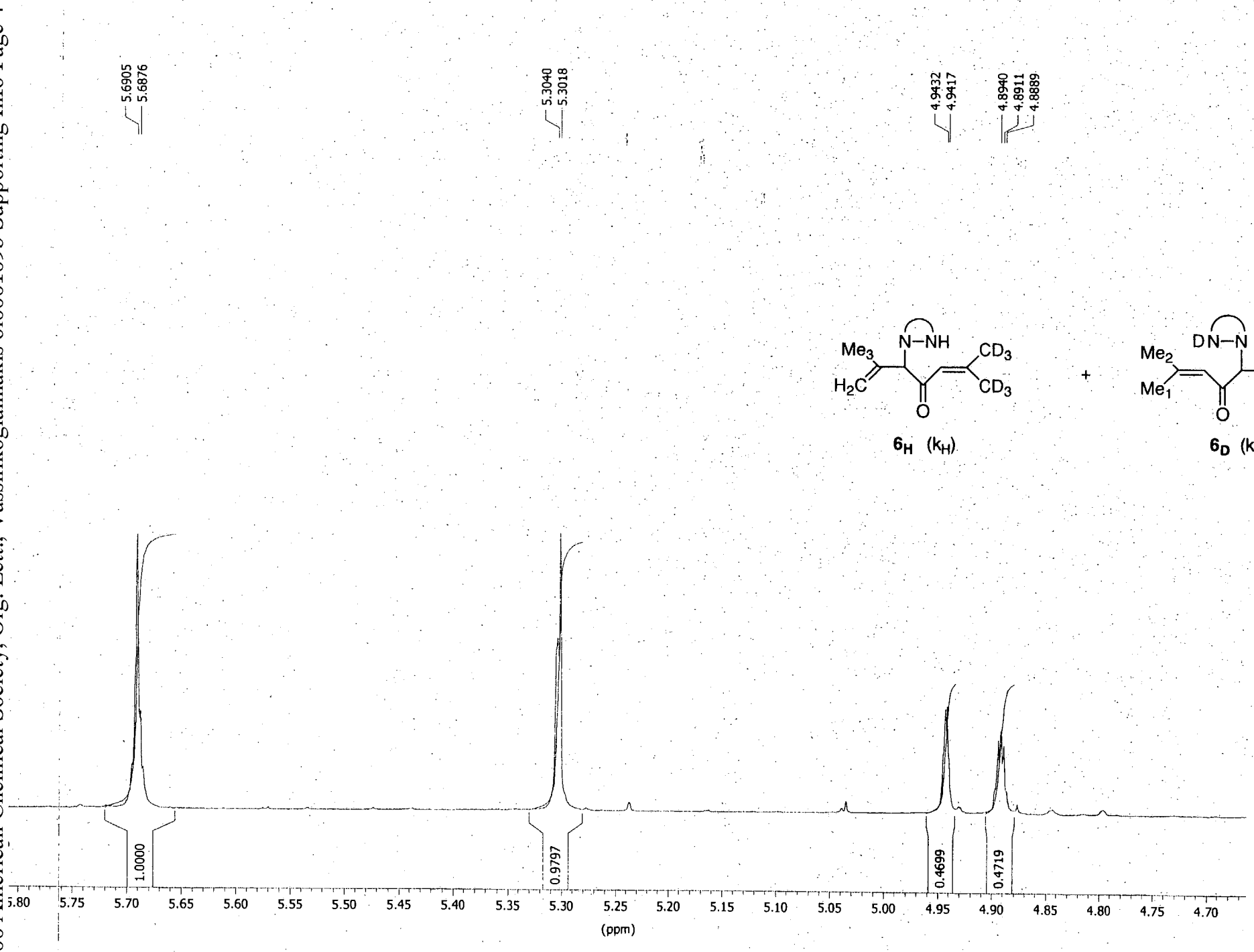


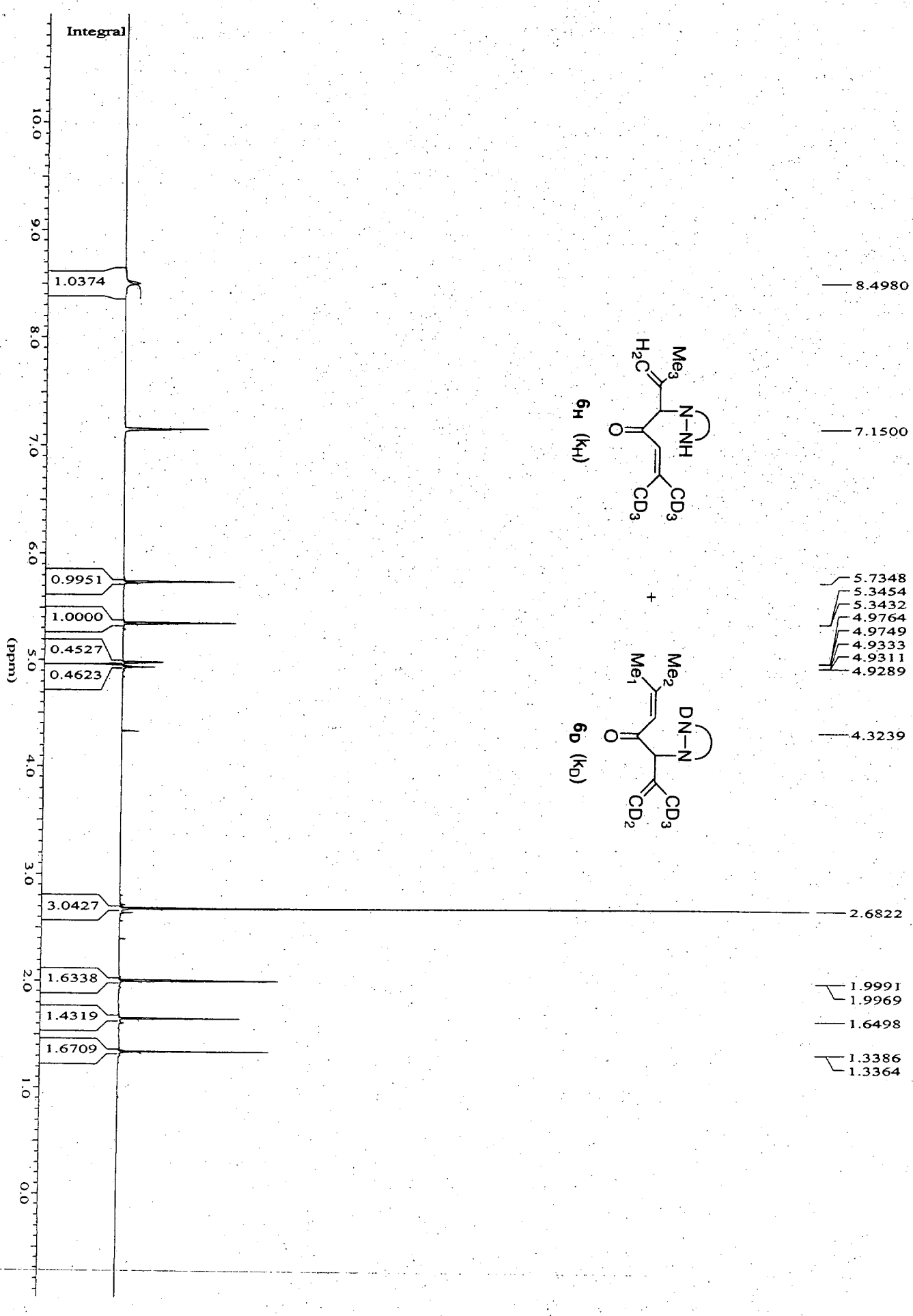
δ_H (k_H)

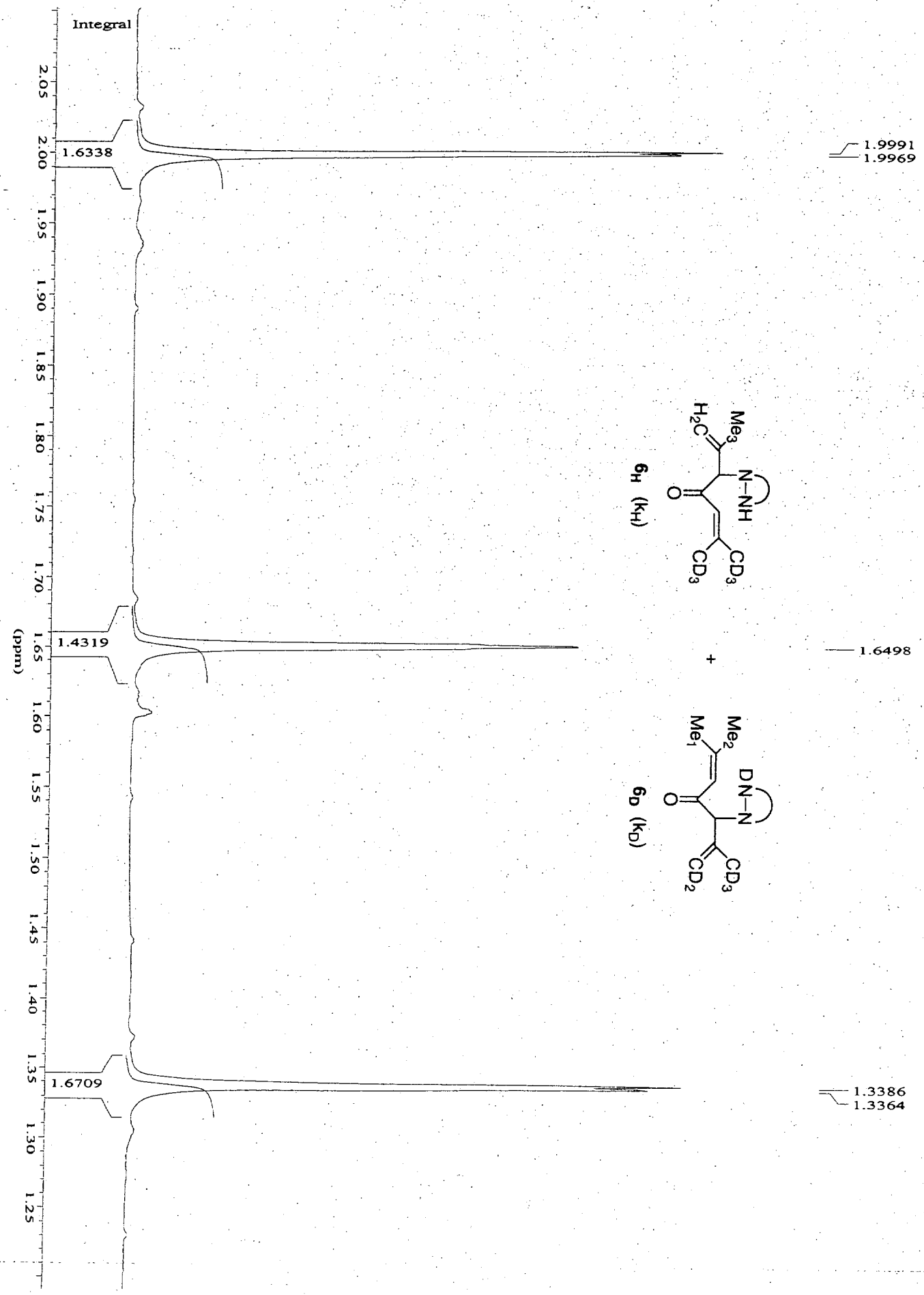
δ_D (k_D)

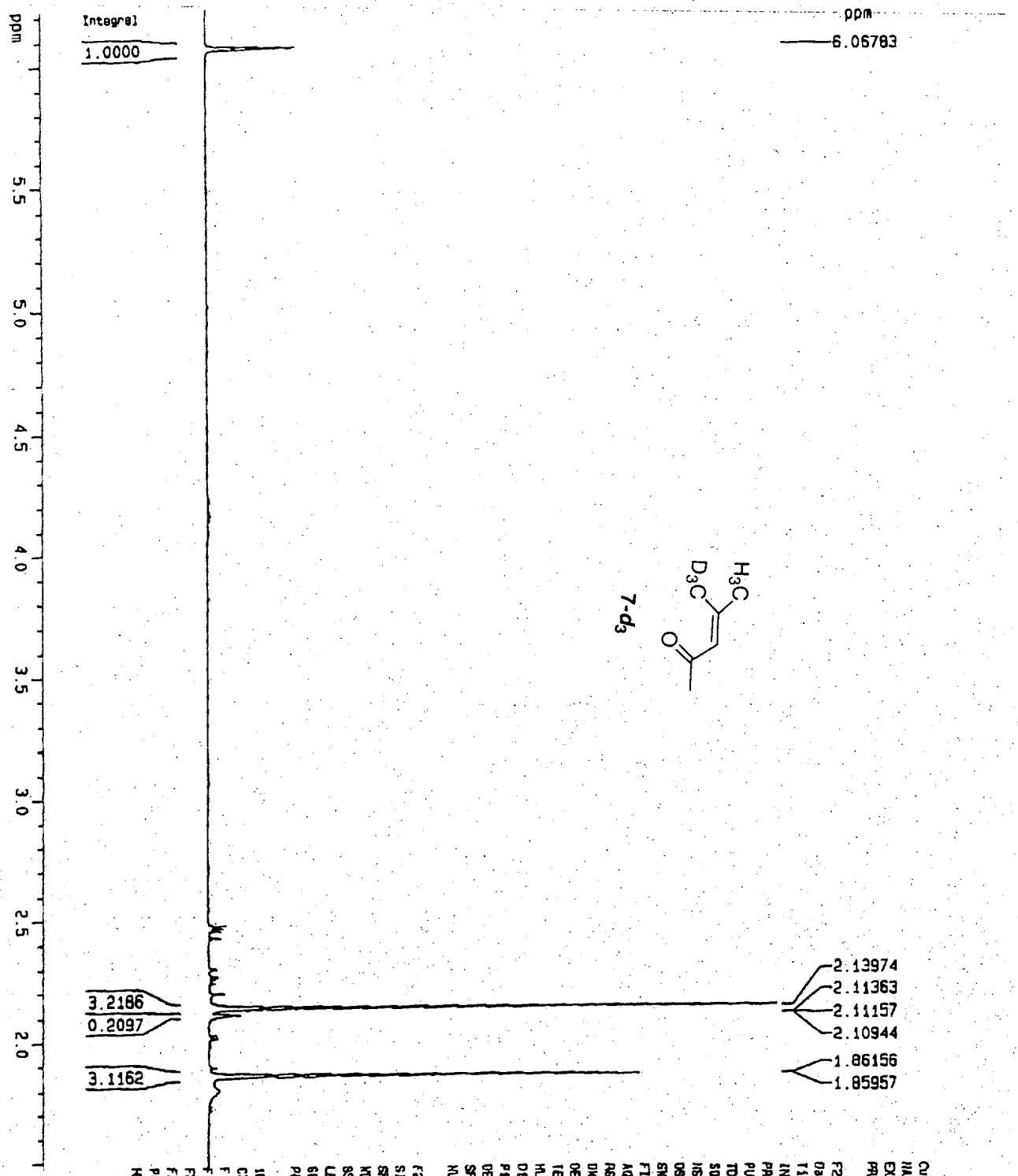
S2
500MHz

S3 500MHz

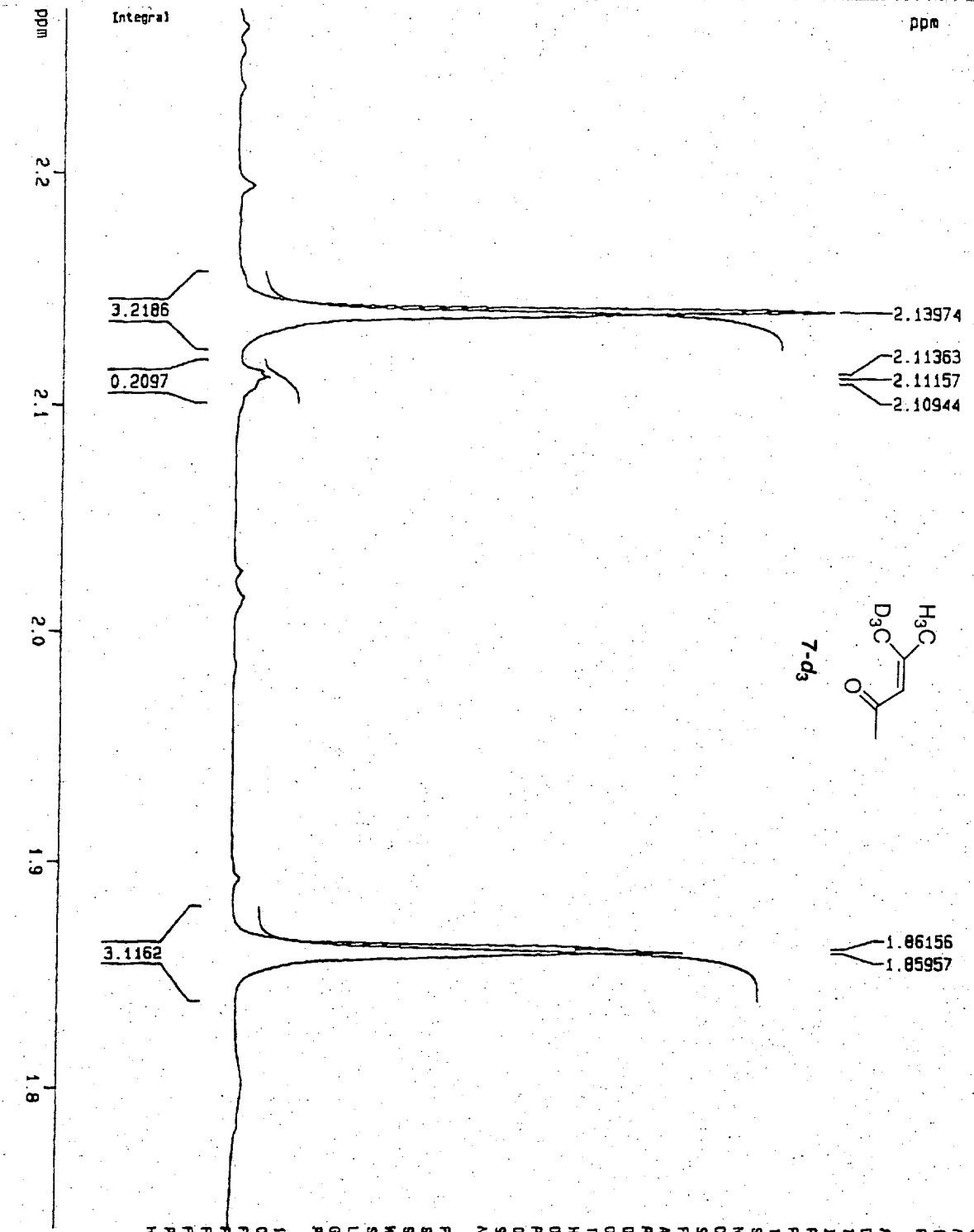








S6
500MHz

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PROCNO                  1

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PULPROG                 zg
TD                      32768
SOLVENT                 CDCl3
NS                      16
DS                      2
SWH                     6024.096 Hz
FIDRES                  0.183841 Hz
AQ                      2.7197940 sec
RG                      84
DW                      83.000 usec
DE                      118.57 usec
TE                      300.0 K
D1                      5 dB
D11                     4.00000000 sec
P1                      9.70 usec
DE                      118.57 usec
SFO1                    500.1325006 MHz
NUCLEUS                 1H

F2 - Processing parameters
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WDW                     no
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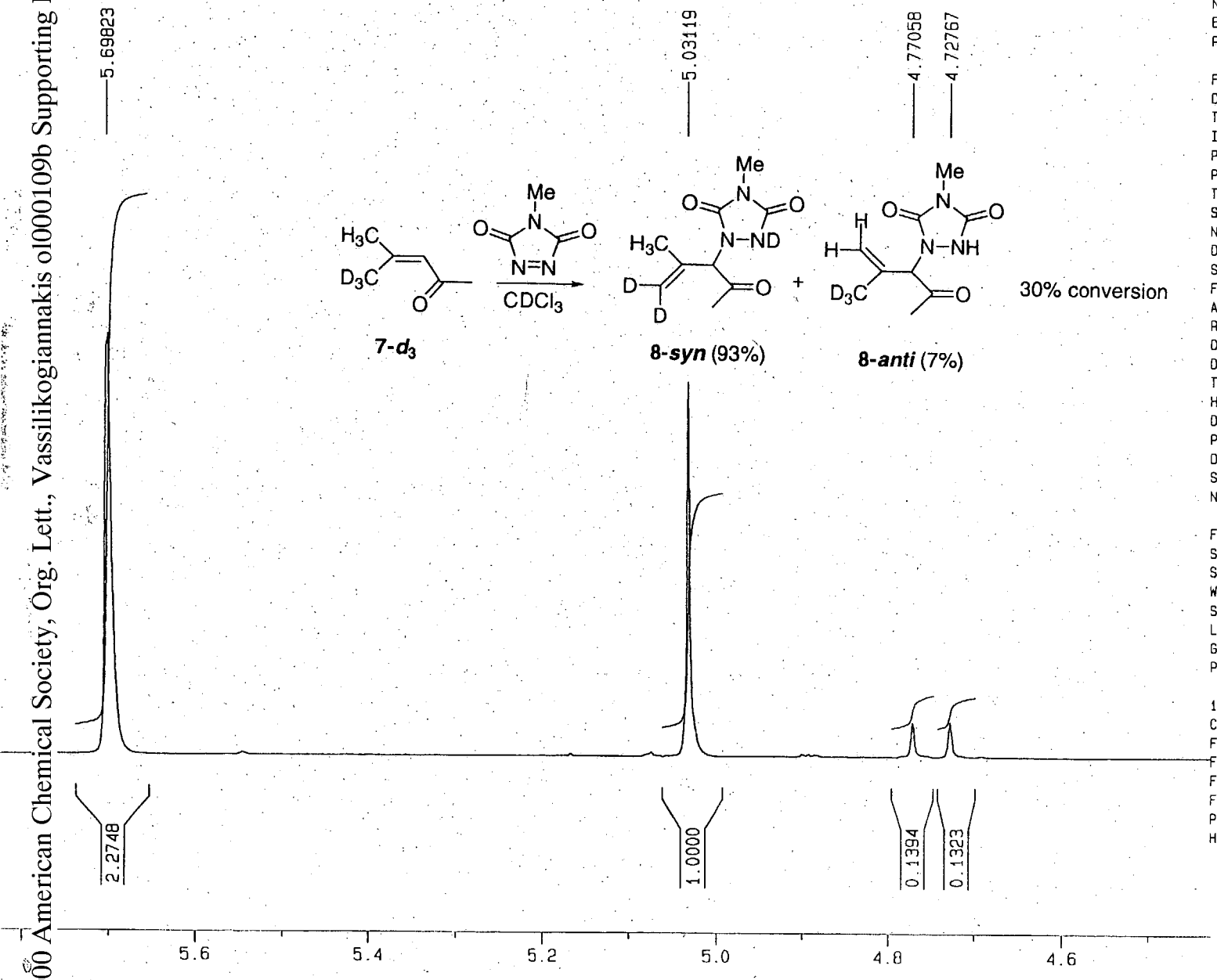
LB                      0.00 Hz
GB                      0
PC                      1.00

1D NMR plot parameters
CX                      21.00 cm
F1P                     2.273 ppm
F1                      1138.64 Hz
F2P                     1.738 ppm
F2                      869.66 Hz
PPMCM                   0.02542 ppm/cm
HZCM                    12.71208 Hz/cm
```

S7
500MHz



7-d_3 **8-*syn*** (93%) **8-*anti*** (7%)

Current Data Parameters

NAME	gv
EXPNO	76
PROCNO	1

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PULPROG	zg
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FIDRES	0.183841 Hz
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RG	256
DW	83.000 usec
DE	118.57 usec
TE	300.0 K
HL1	6 dB
D1	4.00000000 sec
P1	9.70 usec
DE	118.57 usec
SFO1	500.1325006 MHz
NUCLEUS	1H

F2 - Processing parameters

SI	16384
SF	500.1300612 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	21.00 cm
F1P	5.869 ppm
F1	2935.20 Hz
F2P	4.427 ppm
F2	2213.93 Hz
PPMCM	0.06867 ppm/cm
HZCM	34.34620 Hz/cm

IonSpec HiResMALDI

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kcggv

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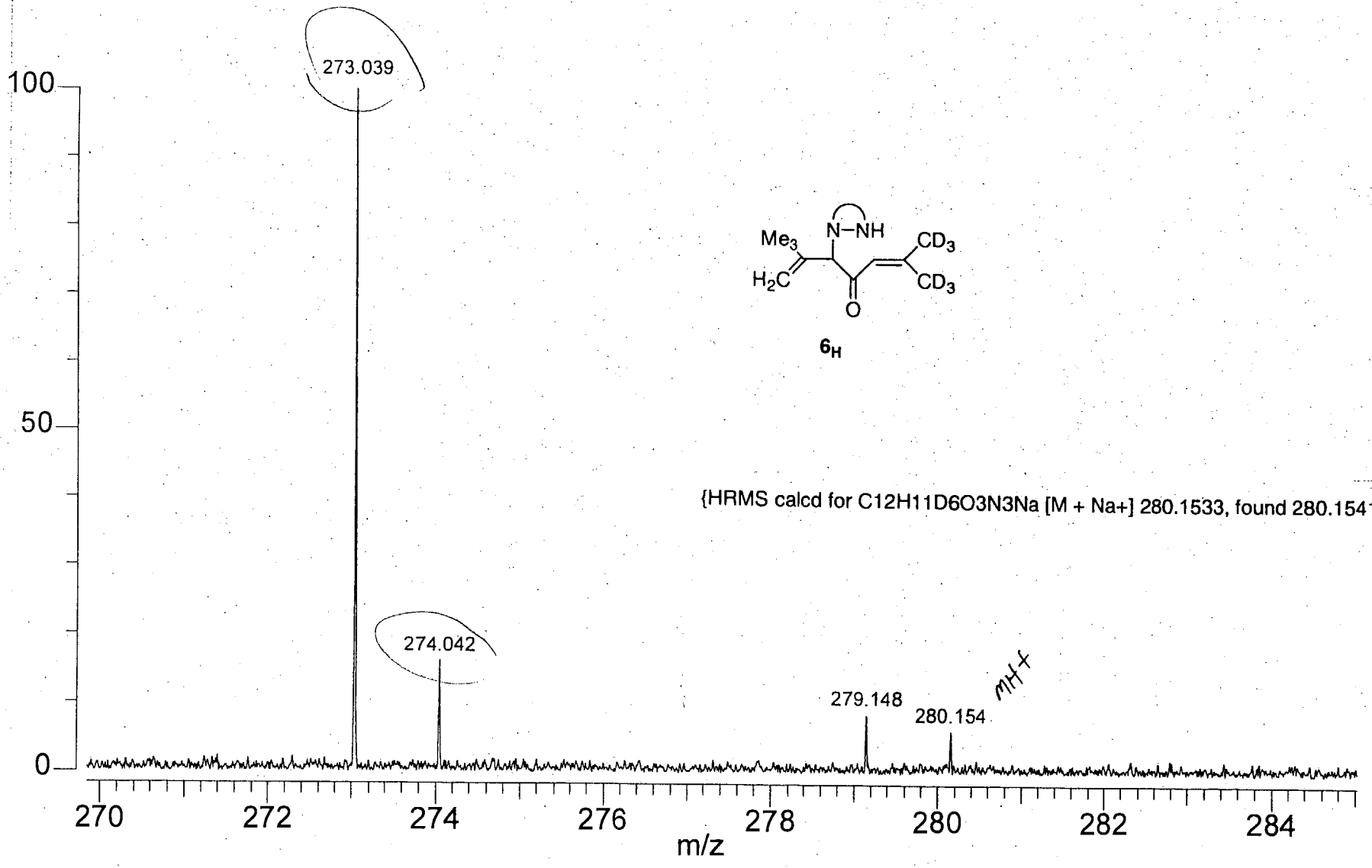

6H

{HRMS calcd for C12H11D6O3N3Na [M + Na+] 280.1533, found 280.1541}

M6V650C54 Scripps Research Inst, Siuzdak