Table S1. Crystallographic Data

		(**2**) $PdCl_2$·MeCN	$C_{23}H_{25}N_3$
Formula		$C_{25}H_{28}Cl_2N_4Pd$	$C_{22}H_{25}N_3$
Color		orange	colorless
Crystal Dimensions		0.25 x 0.15 x 0.15 mm	0.30 x 0.12 x 0.12 mm
Space Group		*Pnma*	$P2_12_12_1$
Cell Dimensions		(-160 °C)	(-160 °C)
	a =	12.4627(5)Å	6.648(1)
	b =	14.7755(6)	9.499(2)
	c =	12.7265(5)	29.446(4)
Z		4	4
Volume		2343.49 $Å^3$	1859.33 $Å^3$
Calculated Density		1.592	1.227
Wavelength		.71073	.71073
Molecular Weight		561.85	343.47
Linear Absorption Coefficient		10.416	0.729
Number of Unique Intensities		3549	4242
Number with I > 0.0		3428	4117
Number with I > 2.33*σ(F)		2118	3121
R for Averaging		0.089	0.033
Final residuals			
R(F)		0.0270	0.0362
R_w(F)		0.0213	0.0262
Goodness of Fit for the Last Cycle		0.529	0.933
Maximum Δ/σ for Last Cycle		0.00	0.00

$R = \Sigma \| F_o| - |F_c \| / \Sigma |F_o|$ $\quad R_w = [\Sigma w(|F_o| - |F_c|)^2 / \Sigma w|F_o|^2]^{1/2}$ where $w = 1/\sigma^2(|F_o|)$.

Table S2. Fractional Coordinates and Isotropic Thermal Parameters for (**2**)$PdCl_2$·MeCN

Atom	x	y	z	B_{iso}
Pd(1)	1666.8(3)	7500*	1148.4(3)	12
Cl(2)	1977(1)	6387(1)	2369(1)	20
N(3)	3203(3)	7500*	-301(3)	12
C(4)	3559(3)	6716(2)	106(3)	13
C(5)	4373(3)	6696(3)	848(3)	18
C(6)	4813(4)	7500*	1198(5)	19
C(7)	3052(3)	5890(3)	-382(3)	15
C(8)	3251(3)	5027(3)	252(4)	22
C(9)	3613(4)	5794(3)	-1457(4)	24
C(10)	1823(3)	5969(2)	-536(3)	14
N(11)	1198(2)	6516(2)	70(2)	12
C(12)	109(3)	6487(2)	-40(3)	15
C(13)	-366(3)	5944(3)	-797(3)	18
C(14)	253(3)	5392(3)	-1404(3)	19
C(15)	1346(3)	5400(3)	-1269(3)	18
C(16)	-572(3)	6980(3)	753(3)	20
N(17)	2351(6)	2500*	1189(7)	78
C(18)	3155(6)	2500*	1581(5)	32
C(19)	4172(6)	2500*	2082(6)	50
H(1)	460(2)	619(2)	110(2)	9(7)
H(2)	541(5)	750*	172(4)	43(16)
H(3)	296(2)	507(2)	99(3)	22(9)
H(4)	400(3)	491(2)	34(3)	19(8)
H(5)	295(3)	451(2)	-6(3)	19(9)
H(6)	440(3)	578(2)	-135(3)	22(9)
H(7)	343(3)	528(3)	-184(3)	32(10)
H(8)	344(3)	625(2)	-190(3)	20(9)
H(9)	-105(2)	599(2)	-85(2)	10(7)
H(10)	-2(3)	506(2)	-184(2)	7(7)
H(11)	173(2)	506(2)	-166(2)	11(8)
H(12)	-36(3)	677(2)	142(3)	18(9)
H(13)	-132(3)	679(2)	63(3)	18(8)
H(14)	439*	190*	230*	56

H(15)	473*	274*	164*	56
H(16)	416*	286*	272*	56

Notes:

1) Fractional coordinates are X 10**4 for non-hydrogen atoms and X 10**3 for hydrogen atoms. Biso values are X 10.
2) Isotropic values for those atoms refined anisotropically are calculated using the formula given by W. C. Hamilton, *Acta Cryst.* **1959**, *12*, 609.
3) Parameters marked by an asterisk (*) were not varied.

Table S3. Fractional Coordinates and Isotropic Thermal Parameters for $C_{23}H_{25}N_3$

Atom	x	y	z	B_{iso}
N(1)	8366(2)	8332(2)	888.9(5)	18
C(2)	8832(3)	6971(2)	935(1)	19
C(3)	10341(3)	6341(2)	676(1)	23
C(4)	11405(3)	7174(3)	377(1)	27
C(5)	10969(3)	8597(2)	339(1)	23
C(6)	9416(3)	9142(2)	600(1)	18
C(7)	8817(3)	10704(2)	612(1)	18
C(8)	6514(3)	10831(2)	620(1)	18
C(9)	9601(4)	11519(3)	198(1)	25
C(10)	9732(3)	11263(2)	1056(1)	18
N(11)	8555(3)	11228(2)	1426(1)	19
C(12)	9390(3)	11545(2)	1832(1)	20
C(13)	11406(3)	11924(2)	1875(1)	24
C(14)	12594(3)	11990(2)	1492(1)	26
C(15)	11746(3)	11659(2)	1077(1)	23
C(16)	8063(4)	11402(2)	2242(1)	25
C(17)	7858(4)	9871(2)	2411(1)	24
C(18)	6570(3)	8960(2)	2108(1)	19
N(19)	7498(2)	7966(2)	1859.8(5)	18
C(20)	6378(3)	7186(2)	1569(1)	19
C(21)	4312(3)	7370(2)	1530(1)	22
C(22)	3367(3)	8381(2)	1794(1)	26
C(23)	4504(4)	9172(2)	2088(1)	25
C(24)	7566(3)	6140(2)	1278(1)	21
C(25)	8916(4)	5254(3)	1589(1)	28
C(26)	6179(4)	5148(3)	1010(1)	32
H(27)	1061(3)	534(2)	72(1)	21(5)
H(28)	1240(3)	680(2)	21(1)	33(5)
H(29)	1170(3)	920(2)	13(1)	26(5)
H(30)	590(3)	1045(2)	33(1)	15(4)
H(31)	596(3)	1034(2)	86(1)	20(4)
H(32)	613(3)	1184(2)	64(1)	15(4)
H(33)	894(3)	1114(2)	-8(1)	18(4)
H(34)	1113(3)	1145(2)	15(1)	31(5)
H(35)	930(3)	1254(2)	22(1)	30(5)
H(36)	1191(3)	1216(2)	218(1)	28(5)
H(37)	1408(3)	1225(2)	151(1)	30(5)
H(38)	1257(3)	1168(2)	81(1)	15(4)
H(39)	856(3)	1197(2)	247(1)	32(5)
H(40)	666(3)	1179(2)	218(1)	19(4)
H(41)	921(3)	946(2)	245(1)	22(5)
H(42)	718(3)	988(2)	274(1)	25(5)
H(43)	394(3)	987(2)	229(1)	27(5)
H(44)	196(3)	852(2)	177(1)	32(5)
H(45)	352(3)	673(2)	131(1)	21(4)
H(46)	963(3)	453(2)	140(1)	27(5)
H(47)	806(3)	470(2)	181(1)	35(5)
H(48)	984(3)	587(2)	176(1)	30(5)
H(49)	544(4)	458(3)	124(1)	49(7)

H(50)	703(3)	443(2)	85(1)	38(6)
H(51)	535(3)	562(2)	80(1)	30(5)

Notes:

4) Fractional coordinates are X 10**4 for non-hydrogen atoms and X 10**3 for hydrogen atoms. Biso values are X 10.
5) Isotropic values for those atoms refined anisotropically are calculated using the formula given by W. C. Hamilton, *Acta Cryst.* **1959**, *12*, 609.
6) Parameters marked by an asterisk (*) were not varied.

Table S4. Anisotropic Thermal Parameters for (**2**)$PdCl_2$·MeCN

Atom	U11	U22	U33	U12	U13	U23
Pd(1)	15.5(2)	12.9(2)	18.2(2)	0*	0.3(2)	0*
Cl(2)	31(1)	20(1)	26(1)	4.9(4)	0.3(4)	5.7(5)
N(3)	17(2)	11(2)	18(2)	0*	1(2)	0*
C(4)	17(2)	17(2)	18(2)	1(1)	3(1)	-2(2)
C(5)	22(2)	17(2)	30(2)	5(2)	-2(2)	2(2)
C(6)	23(3)	25(3)	23(3)	0*	-7(3)	0*
C(7)	20(2)	15(2)	22(2)	2(1)	2(2)	-1(2)
C(8)	21(2)	19(2)	44(3)	0(2)	-2(2)	2(2)
C(9)	32(2)	23(3)	37(3)	-5(2)	10(2)	-9(2)
C(10)	23(2)	11(2)	19(2)	1(1)	1(2)	3(2)
N(11)	17(1)	10(2)	17(2)	-2(1)	-1(1)	0(1)
C(12)	20(2)	15(2)	23(2)	-1(2)	1(2)	4(2)
C(13)	19(2)	21(2)	28(2)	-3(2)	-5(2)	6(2)
C(14)	34(2)	18(2)	20(2)	-4(2)	-8(2)	-1(2)
C(15)	29(2)	17(2)	21(2)	3(2)	0(2)	-3(2)
C(16)	20(2)	23(2)	32(2)	-3(2)	2(2)	0(2)
N(17)	78(5)	77(5)	142(8)	0*	-60(6)	0*
C(18)	51(5)	25(4)	46(5)	0*	-8(4)	0*
C(19)	48(4)	40(5)	103(7)	0*	-22(5)	0*

Form of the anisotropic thermal parameter:
exp[-2(pi**2) [h**2) ((a*)**2)U11+(k**2) (bI)**2)U22+(l**2) ((c*)**2)U33_2hk(a*) (b*)U12+2hl (a*) (c*)U13+2kl (b*) (c*) U23]]
All values are X 10**3

Table S5. Anisotropic Thermal Parameters for $C_{23}H_{25}N_3$

Atom	U11	U22	U33	U12	U13	U23
N(1)	19(1)	26(1)	22(1)	2(1)	-1(1)	-2(1)
C(2)	24(1)	25(1)	22(1)	2(1)	-7(1)	-5(1)
C(3)	31(1)	26(1)	33(1)	6(1)	-5(1)	-7(1)
C(4)	27(1)	46(2)	31(1)	11(1)	3(1)	-12(1)
C(5)	26(1)	40(1)	21(1)	1(1)	1(1)	-2(1)
C(6)	19(1)	32(1)	17(1)	0(1)	-4(1)	1(1)
C(7)	20(1)	28(1)	21(1)	0(1)	2(1)	3(1)
C(8)	22(1)	24(1)	25(1)	-1(1)	-2(1)	2(1)
C(9)	29(1)	39(2)	28(1)	1(1)	4(1)	9(1)
C(10)	24(1)	18(1)	26(1)	2(1)	-2(1)	5(1)
N(11)	27(1)	19(1)	24(1)	1(1)	-2(1)	1(1)
C(12)	36(1)	14(1)	26(1)	5(1)	-3(1)	1(1)
C(13)	39(1)	20(1)	34(1)	3(1)	-14(1)	-4(1)
C(14)	26(1)	26(1)	48(1)	0(1)	-10(1)	1(1)
C(15)	24(1)	30(1)	33(1)	1(1)	1(1)	3(1)
C(16)	46(1)	24(1)	23(1)	4(1)	-4(1)	-5(1)
C(17)	42(1)	29(1)	21(1)	5(1)	-3(1)	-1(1)
C(18)	34(1)	24(1)	16(1)	1(1)	2(1)	6(1)
N(19)	25(1)	21(1)	21(1)	0(1)	-2(1)	3(1)
C(20)	29(1)	19(1)	23(1)	-3(1)	-1(1)	6(1)
C(21)	26(1)	30(1)	29(1)	-7(1)	-3(1)	6(1)
C(22)	23(1)	40(1)	35(1)	2(1)	3(1)	11(1)
C(23)	34(1)	33(1)	27(1)	8(1)	7(1)	5(1)
C(24)	31(1)	20(1)	28(1)	1(1)	-6(1)	-1(1)
C(25)	50(2)	24(1)	34(1)	11(1)	-1(1)	3(1)
C(26)	48(2)	30(1)	43(1)	-8(1)	-4(1)	-9(1)

Form of the anisotropic thermal parameter:
exp[-2(pi**2) [h**2) ((a*)**2)U11+(k**2) (bI)**2)U22+(l**2) ((c*)**2)U33_2hk(a*) (b*)U12+2hl (a*) (c*)U13+2kl (b*) (c*) U23]]
All values are X 10**3

Table S6. Bond Distances (Å) and Angles (°) for (**2**)$PdCl_2$·MeCN

Distances

Pd(1)	Cl(2)	2.2947(10)	C(14)	C(15)	1.372(5)
Pd(1)	N(11)	2.083(3)	C(16)	C(16)	1.537(8)
N(3)	C(4)	1.344(4)	C(18)	C(19)	1.419(9)
N(11)	C(10)	1.363(4)	C(5)	H(1)	.86(3)
N(11)	C(12)	1.364(4)	C(6)	H(2)	1.00(6)
N(17)	C(18)	1.119(8)	C(8)	H(3)	1.00(3)
C(4)	C(5)	1.387(5)	C(8)	H(4)	.96(3)
C(4)	C(7)	1.508(5)	C(8)	H(5)	.94(3)
C(5)	C(6)	1.382(5)	C(9)	H(6)	.99(3)
C(7)	C(8)	1.529(5)	C(9)	H(7)	.93(4)
C(7)	C(9)	1.543(5)	C(9)	H(8)	.91(3)
C(7)	C(10)	1.549(4)	C(13)	H(9)	.85(3)
C(10)	C(15)	1.389(5)	C(14)	H(10)	.81(3)
C(12)	C(13)	1.386(5)	C(15)	H(11)	.85(3)
C(12)	C(16)	1.507(5)	C(16)	H(12)	.95(3)
C(13)	C(14)	1.363(5)	C(16)	H(13)	.99(3)

Angles

Cl(2)	Pd(1)	Cl(2)'	91.57(5)	N(11)	C(10)	C(15)	119.6(3)
Cl(2)	Pd(1)	N(11)	89.59(8)	C(7)	C(10)	C(15)	117.6(3)
Cl(2)	Pd(1)	N(11)'	173.38(8)	N(11)	C(12)	C(13)	121.0(3)
N(11)	Pd(1)	N(11)'	88.53(15)	N(11)	C(12)	C(16)	118.4(3)
C(4)	N(3)	C(4)	119.1(4)	C(13)	C(12)	C(16)	120.3(3)
Pd(1)	N(11)	C(10)	128.80(23)	C(12)	C(13)	C(14)	119.9(3)
Pd(1)	N(11)	C(12)	111.68(25)	C(13)	C(14)	C(15)	119.0(4)
C(10)	N(11)	C(12)	119.4(3)	C(10)	C(15)	C(14)	121.0(4)
N(3)	C(4)	C(5)	121.4(4)	C(12)	C(16)	C(16)	118.94(21)
N(3)	C(4)	C(7)	113.7(3)	N(17)	C(18)	C(19)	179.7(9)
C(5)	C(4)	C(7)	124.8(3)	C(4)	C(5)	H(1)	121.0(22)
C(4)	C(5)	C(6)	119.5(4)	C(6)	C(5)	H(1)	119.5(22)
C(5)	C(6)	C(5)	118.5(5)	C(5)	C(6)	H(2)	120.7(3)
C(4)	C(7)	C(8)	113.0(3)	C(7)	C(8)	H(3)	112.6(20)
C(4)	C(7)	C(9)	104.5(3)	C(7)	C(8)	H(4)	111.5(21)
C(4)	C(7)	C(10)	113.9(3)	C(7)	C(8)	H(5)	113.1(22)
C(8)	C(7)	C(9)	108.6(3)	H(3)	C(8)	H(4)	104.6(27)
C(8)	C(7)	C(10)	106.9(3)	H(3)	C(8)	H(5)	107.(3)
C(9)	C(7)	C(10)	110.0(3)	H(4)	C(8)	H(5)	107.(3)
N(11)	C(10)	C(7)	122.6(3)	C(7)	C(9)	H(6)	109.0(21)

C(7)	C(9)	H(7)	115.8(24)	C(15)	C(14)	H(10)	120.7(24)
C(7)	C(9)	H(8)	112.0(23)	C(10)	C(15)	H(11)	120.6(22)
H(6)	C(9)	H(7)	107.(3)	C(14)	C(15)	H(11)	118.4(22)
H(6)	C(9)	H(8)	110.(3)	C(12)	C(16)	H(12)	106.9(20)
H(7)	C(9)	H(8)	103.(3)	C(12)	C(16)	H(13)	106.8(19)
C(12)	C(13)	H(9)	115.7(22)	C(16)	C(16)	H(12)	108.8(20)
C(14)	C(13)	H(9)	124.4(22)	C(16)	C(16)	H(13)	106.9(19)
C(13)	C(14)	H(10)	120.3(24)	H(12)	C(16)	H(13)	108.(3)

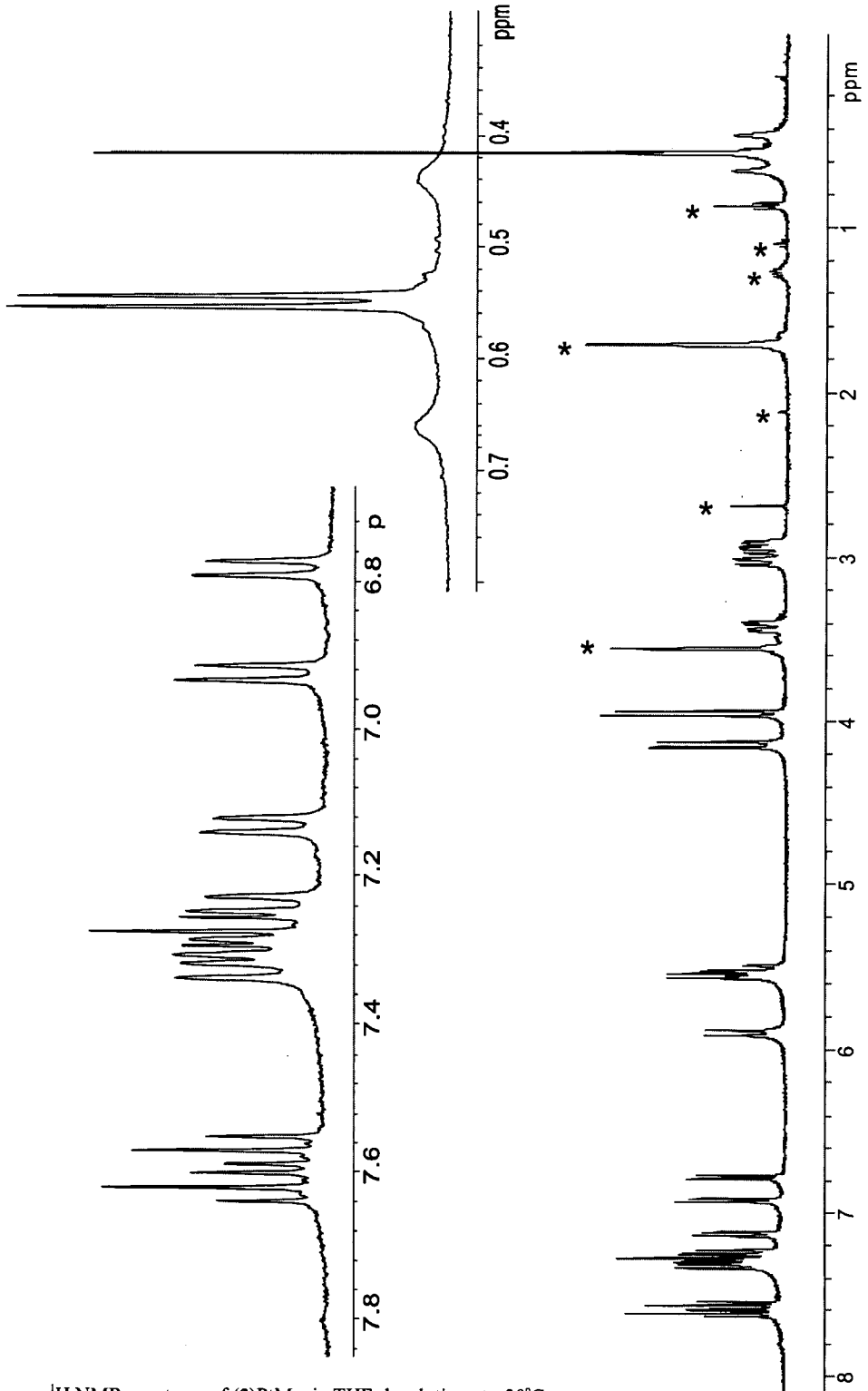
Table S7. Bond Distances (Å) and Angles (°) for $C_{23}H_{25}N_3$

Angles

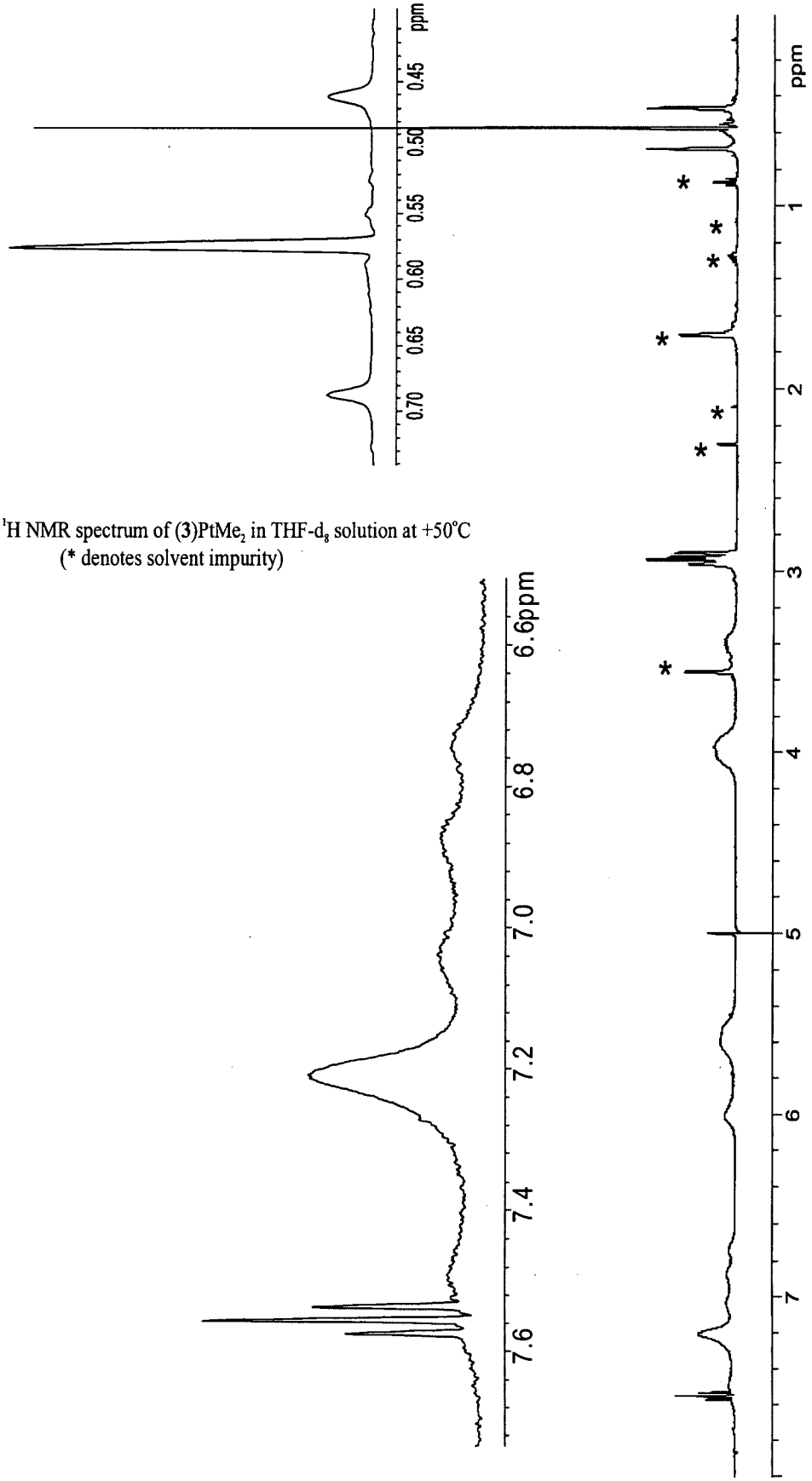
N(1)	C(2)	1.3367(24)	C(24)	C(25)	1.534(3)
N(1)	C(6)	1.3436(24)	C(24)	C(26)	1.536(3)
N(11)	C(10)	1.3424(23)	C(3)	H(27)	.974(19)
N(11)	C(12)	1.3509(23)	C(4)	H(28)	.896(21)
N(19)	C(18)	1.3442(24)	C(5)	H(29)	.972(19)
N(19)	C(20)	1.3549(23)	C(8)	H(30)	1.006(17)
C(2)	C(3)	1.3951(27)	C(8)	H(31)	.933(19)
C(2)	C(24)	1.5340(28)	C(8)	H(32)	.994(18)
C(3)	C(4)	1.378(3)	C(9)	H(33)	.998(18)
C(4)	C(5)	1.387(3)	C(9)	H(34)	1.025(21)
C(5)	C(6)	1.3868(27)	C(9)	H(35)	.994(22)
C(6)	C(7)	1.537(3)	C(13)	H(36)	.986(18)
C(7)	C(8)	1.5358(27)	C(14)	H(37)	1.017(21)
C(7)	C(9)	1.5343(28)	C(15)	H(38)	.962(17)
C(7)	C(10)	1.5367(26)	C(16)	H(39)	.927(21)
C(10)	C(15)	1.3921(26)	C(16)	H(40)	1.022(18)
C(12)	C(13)	1.3934(27)	C(17)	H(41)	.984(19)
C(12)	C(16)	1.501(3)	C(17)	H(42)	1.059(19)
C(13)	C(14)	1.377(3)	C(21)	H(45)	1.035(19)
C(14)	C(15)	1.383(3)	C(22)	H(44)	.945(20)
C(16)	C(17)	1.543(3)	C(23)	H(43)	.965(20)
C(17)	C(18)	1.508(3)	C(25)	H(46)	1.002(22)
C(18)	C(23)	1.390(3)	C(25)	H(47)	1.021(23)
C(20)	C(21)	1.3889(28)	C(25)	H(48)	.980(20)
C(20)	C(24)	1.5308(27)	C(26)	H(49)	.989(26)
C(21)	C(22)	1.386(3)	C(26)	H(50)	1.009(23)
C(22)	C(23)	1.372(3)	C(26)	H(51)	.953(21)

C(2)	N(1)	C(6)	119.85(17)	C(3)	C(4)	C(5)	120.23(21)
C(10)	N(11)	C(12)	118.22(17)	C(4)	C(5)	C(6)	118.37(21)
C(18)	N(19)	C(20)	118.41(17)	N(1)	C(6)	C(5)	121.58(20)
N(1)	C(2)	C(3)	121.74(19)	N(1)	C(6)	C(7)	113.79(16)
N(1)	C(2)	C(24)	115.90(17)	C(5)	C(6)	C(7)	124.52(19)
C(3)	C(2)	C(24)	122.34(18)	C(6)	C(7)	C(8)	109.52(17)
C(2)	C(3)	C(4)	118.18(21)	C(6)	C(7)	C(9)	112.37(17)

C(6)	C(7)	C(10)	104.56(15)	C(12)	C(13)	H(36)	118.0(12)
C(8)	C(7)	C(9)	108.17(17)	C(14)	C(13)	H(36)	122.6(12)
C(8)	C(7)	C(10)	110.69(16)	C(13)	C(14)	H(37)	121.9(12)
C(9)	C(7)	C(10)	111.52(17)	C(15)	C(14)	H(37)	119.5(12)
N(11)	C(10)	C(7)	116.88(16)	C(10)	C(15)	H(38)	121.2(10)
N(11)	C(10)	C(15)	122.10(18)	C(14)	C(15)	H(38)	119.3(10)
C(7)	C(10)	C(15)	120.75(17)	C(12)	C(16)	H(39)	108.9(13)
N(11)	C(12)	C(13)	122.21(20)	C(12)	C(16)	H(40)	110.8(10)
N(11)	C(12)	C(16)	116.68(19)	C(17)	C(16)	H(39)	110.3(13)
C(13)	C(12)	C(16)	121.05(19)	C(17)	C(16)	H(40)	108.5(11)
C(12)	C(13)	C(14)	119.29(20)	H(39)	C(16)	H(40)	104.7(16)
C(13)	C(14)	C(15)	118.62(20)	C(16)	C(17)	H(41)	109.3(12)
C(10)	C(15)	C(14)	119.52(20)	C(16)	C(17)	H(42)	108.6(11)
C(12)	C(16)	C(17)	113.33(18)	C(18)	C(17)	H(41)	110.6(12)
C(16)	C(17)	C(18)	113.63(17)	C(18)	C(17)	H(42)	107.4(11)
N(19)	C(18)	C(17)	117.64(18)	H(41)	C(17)	H(42)	107.1(15)
N(19)	C(18)	C(23)	122.13(20)	C(20)	C(21)	H(45)	118.7(11)
C(17)	C(18)	C(23)	120.23(20)	C(22)	C(21)	H(45)	122.0(11)
N(19)	C(20)	C(21)	121.76(19)	C(21)	C(22)	H(44)	119.9(14)
N(19)	C(20)	C(24)	115.14(17)	C(23)	C(22)	H(44)	121.2(14)
C(21)	C(20)	C(24)	123.06(18)	C(18)	C(23)	H(43)	117.3(12)
C(20)	C(21)	C(22)	119.29(20)	C(22)	C(23)	H(43)	123.2(12)
C(21)	C(22)	C(23)	118.89(20)	C(24)	C(25)	H(46)	108.6(11)
C(18)	C(23)	C(22)	119.49(21)	C(24)	C(25)	H(47)	110.0(12)
C(2)	C(24)	C(20)	108.55(16)	C(24)	C(25)	H(48)	109.6(12)
C(2)	C(24)	C(25)	110.76(18)	H(46)	C(25)	H(47)	105.6(16)
C(2)	C(24)	C(26)	107.85(18)	H(46)	C(25)	H(48)	113.3(16)
C(20)	C(24)	C(25)	108.90(17)	H(47)	C(25)	H(48)	109.6(16)
C(20)	C(24)	C(26)	112.08(19)	C(24)	C(26)	H(49)	106.7(14)
C(25)	C(24)	C(26)	108.71(20)	C(24)	C(26)	H(50)	108.7(13)
C(2)	C(3)	H(27)	118.8(11)	C(24)	C(26)	H(51)	113.5(13)
C(4)	C(3)	H(27)	123.1(11)	H(49)	C(26)	H(50)	103.6(18)
C(3)	C(4)	H(28)	120.0(14)	H(49)	C(26)	H(51)	114.6(18)
C(5)	C(4)	H(28)	119.7(14)	H(50)	C(26)	H(51)	109.2(16)
C(4)	C(5)	H(29)	121.2(12)				
C(6)	C(5)	H(29)	120.4(12)				
C(7)	C(8)	H(30)	111.3(10)				
C(7)	C(8)	H(31)	111.5(12)				
C(7)	C(8)	H(32)	109.4(11)				
H(30)	C(8)	H(31)	108.2(14)				
H(30)	C(8)	H(32)	107.0(14)				
H(31)	C(8)	H(32)	109.3(16)				
C(7)	C(9)	H(33)	108.6(11)				
C(7)	C(9)	H(34)	113.9(12)				
C(7)	C(9)	H(35)	111.7(12)				
H(33)	C(9)	H(34)	108.3(16)				
H(33)	C(9)	H(35)	108.4(16)				
H(34)	C(9)	H(35)	105.7(18)				



^{1}H NMR spectrum of (3)$PtMe_2$ in THF-d_8 solution at -20°C
(* denotes solvent impurity)



^{1}H NMR spectrum of (**3**)$PtMe_2$ in THF-d_8 solution at +50°C
(* denotes solvent impurity)