Antenna Measuring Results
27th Eastern VHF/UHF Conference held in Enfield, CT, at the Radisson Hotel, September 2nd, 2001

Antenna measurements were conducted by Chris Fagas, WB2VVV, using Hewlett Packard (Agilent) Test Equipment, and known reference standard antennas.

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144 MHz (Reference: Half Wave Dipole, 0 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
K3IWK	10 Element Yagi-Uda	17.5’	+13.2	+13.2
WB2VVV	Trimmed Radio Shack FM Beam	6’	+5.9	+5.9
WB2VVV	Half Wave Dipole		0	0

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222 MHz (Reference: Half Wave Dipole, 0 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
K3IWK	14 Element Yagi-Uda	17.5’	+14.6	+14.6
WB2VVV	Half Wave Dipole		0	0
WB2VVV	Patch Antenna E_r=10	9” X 9”	- 16.0	-16.0

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432 MHz (Reference: Half Wave Dipole, 0 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
K3IWK	22 Element Yagi-Uda	15’ 6”	+15.6	+15.6
W1JR	15 Element Yagi-Uda	7’ 4”	+13.1	+13.1
K1NCO	5 Element Yagi-Uda	2’ 3”	+7.3	+7.3
WB2VVV	Big Wheel		+0.3	+0.3
WB2VVV	Half Wave Dipole		0	0
WB2VVV	Patch Antenna E_r=10	4” X 4”	-10.1	-10.1

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903 MHz (Reference: 4” X 4” Patch, Er = 2.3, +5.2 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
KA1ZE	18 Element W1RIL Y/U	5’	+9.6	+14.8
WB2VVV	15 Element Wood Boom Y/U	4’ 6”	+8.5	+13.7
WB2VVV	Patch Antenna E_r=1	5” X 5”	+2.5	+7.7
WB2VVV	Patch Antenna E_r=2.3	4” X 4”	0	+5.2

1296 MHz (Reference: 3” X 3” Patch, E_r = 2.3, +6.9 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
WA1HHN	67 Element WIMO/SHF	16’ 9”	+13.9	+20.8
WB2VVV	25 Turn Helix	6’	+7.2	+14.1
WB2VVV	Quad Patch Array E_r=2.3	11” X 11”	+3.9	+10.8
WB2VVV	Patch Antenna E_r=2.3	3” X 3”	0	+6.9
WB2VVV	Tin Can Horn	15”	-0.6	+6.3
N2LIV	Copper Can Horn	10”	-1.1	+5.8

2304 MHz (Reference: 1.75” X 1.75” Patch, E_r = 2.3, +6.0 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
N3EMF	67 Element WIMO/SHF	9’ 8”	+14.5	+20.5
KF6AJ	45 Element Loop Yagi 2	6’ 8”	+9.9	+15.9
KF6AJ	45 Element Loop Yagi 1	6’ 8”	+8.9	+14.9
WB2VVV	Patch Antenna E_r=1	2.5” X 2.5”	+1.0	+7.0
WB2VVV	Patch Antenna E_r=2.3	1.75” X 1.75”	0	+6.0
N2LIV	Coffee Can Horn	6”	-0.4	+5.6
N2LIV	W1RIL Choke Splash	9”	-0.6	+5.4
WB2VVV	Coffee Can Horn	12”	-1.0	+5.0
N2LIV	Coffee Can Horn	5”	-1.4	+4.6
N2MSS	Cavity Backed Spiral	2”	-8.0	-2.0

3456 MHz (Reference: 1.3” X 1.3” Patch, E_r = 2.3, +5.9 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
N2LIV	W1RIL Choke Splash		+2.6	+8.5
WB2VVV	Patch Antenna	1.3” X 1.3”	0	+5.9

5760 MHz (Reference: 1” X 1” Patch, E_r = 1, +6.4 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
WB2VVV	Patch Antenna	1” X 1”	0	+6.4

10368 MHz (Reference: Horn, +10 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
N2MSS	Dish/Shepard’s Crook	24”	+23.9	+33.9
WB1FKF	Sony Offset Black Feed	18”	+23.1	+33.1
K1NCO	MA/COM Button Hook	24”	+22.4	+32.4
WB1FKF	Horn	8”	+11.1	+21.1
K1NCO	Horn	8”	+10.2	+20.2
WB2VVV	Horn	3”	0	+10.0
WB2VVV	Patch Antenna E_r=1	0.6” X 0.6”	-4.3	+5.7
WB2VVV	Patch Antenna E_r=2.3	0.4” X 0.4”	-6.6	+3.4