

# Antenna Measurements, Aurora 2003

April 26, 2003

White Bear Lake, Minnesota

Frequency	Owner	Design	Construction	Notes	Gain	Units
144.2	KB9LVK	12 el Yagi	Homebrew		12.4	dBd
144.2	N0AKC	6 el Yagi	Homebrew		10.4	dBd
144.2	K0AWU	6 el Yagi, WA5VJB	Homebrew		10.0	dBd
144.2	<b>WA2VOI</b>	<b>6 el Yagi, WA5VJB</b>	<b>Homebrew</b>	<b>Reference Antenna</b>	<b>9.9</b>	<b>dBd</b>
144.2	KB9LVK	7 el Yagi	Homebrew		9.9	dBd
144.2	N0ZF	5 el Yagi	Homebrew		9.0	dBd
222.1	KB9TLV	8 el Yagi	Homebrew		10.4	dBd
222.1	<b>WA2VOI</b>	<b>6 el Yagi</b>	<b>Homebrew</b>	<b>Reference Antenna</b>	<b>9.4</b>	<b>dBd</b>
432.1	W0OZI	16 el Yagi, KLM	Commercial		14.2	dBd
432.1	N9TTX	18 el Yagi	Homebrew		11.4	dBd
432.1	K0SQ	10 el Yagi, KLM	Commercial		10.4	dBd
432.1	<b>WA2VOI</b>	<b>11 el Yagi, WA5VJB</b>	<b>Homebrew</b>	<b>Reference Antenna</b>	<b>9.9</b>	<b>dBd</b>
432.1	W0OZI	11 el Yagi	Homebrew		9.3	dBd
432.1	KB9LVK	10 el Yagi	Homebrew		8.0	dBd
432.1	KB9TLV	11 el Yagi	Commercial		7.6	dBd
432.1	KA0RYT	WA5VJB PVC antenna	Homebrew		3.9	dBd
902.1	No antennas were tested					
1296.1	No antennas were tested					
2304	KB0ZKX	Max Gain	Commercial		15.2	dBi
2304	<b>W0AUS</b>	<b>Coffee Can Horn</b>	<b>Homebrew</b>	<b>Reference Antenna</b>	<b>6.2</b>	<b>dBi</b>
3456	No antennas were tested					
5760	N0KP	2 foot dish, dual-band feed	Commercial		24.9	dBi
5760	KF0Q	Directive Systems .6M	Commercial		24.9	dBi
5760	KM0T	2 foot dish, dual-band feed	Commercial		24.4	dBi
5760	K0SHF	18" dish, circular feed	Homebrew		22.9	dBi
5760	<b>W0AUS</b>	<b>E-SYS Horn</b>	<b>Commercial</b>	<b>Reference Antenna</b>	<b>12.9</b>	<b>dBi</b>
5760	KM0T	WR Transition	Commercial		9.5	dBi
10.3 GHz	K0KFC	18" RCA dish	Homebrew		29.9	dBi
10.3 GHz	K0SHF	18" offset dish	Homebrew		29.2	dBi
10.3 GHz	N0KP	2 foot Directive Systems	Commercial		29.1	dBi
10.3 GHz	KD0JI	18" offset dish	Homebrew		28.6	dBi
10.3 GHz	KM0T	2 foot Directive Systems	Commercial		28.1	dBi
10.3 GHz	W0ZQ	Dish 500 with Horn Feed	Homebrew		26.9	dBi
10.3 GHz	WA2VOI	2 foot dish, splash feed	Homebrew		21.3	dBi
10.3 GHz	<b>W0AUS</b>	<b>Horn</b>	<b>Homebrew</b>	<b>Reference Antenna</b>	<b>20.3</b>	<b>dBi</b>
10.3 GHz	WA2VOI	Horn, 2.5 x 1.125	Homebrew		16.5	dBi
10.3 GHz	WA2VOI	Dual Feed Horn	Homebrew		13.6	dBi
10.3 GHz	KD0JI	Splash Feed	Homebrew		8.3	dBi
24 GHz	<b>W0AUS</b>	<b>Horn</b>	<b>Homebrew</b>	<b>Reference Antenna</b>	<b>23.3</b>	<b>dBi</b>
24 GHz	WA2VOI	Dual Feed Horn	Homebrew		11.3	dBi

Reference Antenna = an antenna measured at Central States

dBd = dB of Gain over a Dipole

dBi = dB of Gain over an Isotropic Radiator

144 - 902 MHz measurements made by WA2VØI

1296 MHz - 24 GHz measurements made by WØAUS

Last Updated 06/16/2004 By John P. Toscano, WØJT

from data supplied 07/29/2003 By Bob Wesslund, WØAUS