

10 GHz	July 2001 SDMWG EIRP/MDS Event					Range Feet	220		Path Loss dB	89	
NB 10368											
Call	Dish size "	Output dBm	ERP PM dBm	Atten. Value dB	MDS Gen dBm	Calc Ant Gain	Calc ERP dBm	Meas ERP	Meas- Calc		
W6DXJ	23	30	-7.1	10	-87	33	63	59	-4		
KF6PBP	25	30	-6.9	10	-85	34	64	59	-4		
WB6BKR	25	30	-8.3	10	-87	34	64	58	-6		
WB 10280 Tx	Known Ant d	Out	dBm	Atten	MDS	Gain	ERP	ERP	Delta		
W6OYJ	20	15	-15.8	0	-52	20	35	33	-2		
24 GHz WB											
	Dish Size Inch									95	
W6OYJ NEC	12	7	-8.5	0	-25	35	42	57	15		
OYJ Tuneabl	12	7	-7.5	0	-25	35	42	58	16		
WB6BKR	12	7	-8.5	0	-26	35	42	57	15		
WB frequency is 10280 MHz, IF is 57 MHz with 10.5 dB cable loss & amp gain of 46 db											
NB frequency is 10368 MHz, IF is 145 MHz with 18 dB cable loss & amp gain of 46 dB											
Ant gain Calc assumes 64% efficiency =7+20*LOG(size inches/12)+20*LOG(freq in GHz)											
Measured ERP = Power meter reading+Attenuator + Pathloss +Cable & Mixer loss-Amp & Horn gain											
Path Loss = -37.5+20*LOG(Dist in feet)+20*LOG(Freq MHz)											