

July 20, 2009 SDMWG EIRP/MDS Event						Range Feet	220				89
10 GHz NB											Path Loss dB
Call	Dish size "	Output dBm	ERP PM dBm	Atten. Value dB	MDS Gen dBm	Calc Ant Gain	Calc ERP dBm	Meas ERP	Meas Calc		
Ne6o	18	30	-11	10	-75	31	61	57	-4		
wb6tfc	18	27	-12	10	-75	31	58	56	-2		
w6vlf	30				-75	35	35	58		No Tx	
W6oyj	30	26	-19	10	-70	35	61	49	-12		
W16M	19.5 xdb hor	27	-31	10	-55	20	47	37	-9		
K6QPV	30	24	-11	10	-82	35	59	57	-2		
											Path Loss dB
24 GHz NB											95
W6OYJ	24	18	-12	20	-45	41	59	61	2		
NB frequency is 10368 MHz, IF is 145 MHz with 18 dB cable loss & amp gain of 46 dB											
NB frequency is 24192 MHz, IF is 147 MHz with 18 dB cable loss											
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)											