

10 GHz	July 27,2002 SBMS-SDMWG MDS/ERP 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	
W6OYJ	30	25	-4.7	10	-87	35	60	62	1	
WB6DTA	24	28	-2.1	10	-87	33	61	64	3	
KE6HPZ	27	26	-8.2	10	-81	34	60	58	-2	
KB6WKT	27	30	-1	10	-92	34	64	65	1	
WA6QYR	18	28	-8.4	10	-80	31	59	58	-1	
KC6UQH	33	30	-2.3	10	-83	36	66	64	-2	
K6HLH	18	27	-6.6	10	-85	31	58	60	2	
K6JEY	24	28	-7.4	10	-82	33	61	59	-2	
KJ6HZ	33	23	-11.6	10	-80	36	59	55	-4	
WA6NIA	24	29	X	10	-90	33	62	####	#####	
N9RIN	18	31	-15	10	-65	31	62	51	-11	
NB	Known Ant dB									
WB6DNX	17		-17	0	X	17	17	39	22	
24 GHz NB	Ant size "									
K6JEY	24	20	-34	0	-57	41	61	31	-30	
WB6DNX	12	x	x	0	-24	35	####	####	#####	
WA6NIA Pcom	24	x	x	0	-54	41	####	####	#####	
24 GHz WB										
	Dish Size									95
W6OYJ	15	7	-27	0	-14	37	44	38	-6	
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)										