

10 GHz	JulySBMS/ SDMVG EIRP/MDS Event (7/10/04)					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	
K6JEY	24	33	-7	10	-94	33	66	59	-7	
WA6NIA	24				-93	33	33	56		
WB6DNX	36	24	-11	20	88	37	61	65	4	
WB6NOA	24	33	-14	20	-78	33	66	62	-4	
KG6EG	22.5	30	-10.5	20	-88	33	63	66	3	
N6XQ	12	30	-14.5	20	-88	27	57	62	4	
KH6WZ	24	40	-11	20	-86	33	73	65	-8	
N6EQ	24	32	-7	20	-90	33	65	69	4	
KE6HPZ	24	38	-3	20	-87	33	71	73	2	
N6RMJ	36	44	-1	20	-89	37	81	75	-6	
N6RMJ	24	30	-14	20	-90	33	63	62	-1	
WA6CGR	24	40	-11	20	-82	33	73	65	-8	
W6QIW	30	33	-3	20	-100	35	68	73	5	
KJ6HZ	33	28	-15	20	-86	36	64	61	-3	
WA6EXV	37	27	-20	20	-91	37	64	56	-8	
KC6UQH	33	30	-9	20	-90	36	66	67	1	
KC6UQH	18	27	-18	20	-85	31	58	58	0	
WB6DJI	24	42	0	20	-93	33	75	76	1	
24 GHz NB										
	Dish Size									95
W6OYJ	24	10	-45	0	-20	41	51	20	-30	
K6JEY	12			0	-50	35	35	65		
WB frequency is 10280 MHz, IF is 57 MHz RX with 10.5 dB cable loss & amp gain of 46 db										
WB frequency is 10250 MHz, IF is 27 MHz TX										
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 & amp gain of 46 dB										
WB frequency is 24125 MHz, IF is 80 MHz TX with ?? cable loss & amp gain of 46 db										
WB frequency is 24155 MHz, IF is 110 MHz RX with ?? 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)										
Note: Not sure whether TX measurements for all participants were redone after it was discovered that the remote mast had to be rotated to favor the south end of the line.										