	August 2, 2008 SDMG-SBMS EIRP/MDS Even					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**	
KH6WZ	30	39	-11	20	-83	35	74	67	-7	
W6QIW	30	39	-12	30	-94	35	74	76	2	
N6EQ	24	37	-5	20	-84	33	70	73	3	
KD5FEG	18	30	-15	0	-58	31	61	43	-18	Low Tx & Rx
K6BNN	18	26	-8	10	-65	31	57	60	3	
KB6CJZ	18	20	-11	0	-65	31	51	47	-4	
N6RMJ1	23	30	-5	10	-78	33	63	63	0	
N6RMJ2	30	37	-7	20	-86	35	72	71	-1	
KE6HPZ1	24	39	-6	20	-84	33	72	72	0	
N9RIN	36	28	-8	10	-80	37	65	60	-5	
KE6HPZ2	18	30	-11	10	-70	31	61	57	-4	
KC6QHP	18	30	-10	10	-66	31	61	58	-3	
KN6VR	39				-85	38	38	58	21	No Tx
W6SZ	15dB	30	-12	0	-57	15	45	46	1	
KJ6HZ	32	35	-9	10	-78	36	71	59	-12	
AE6QU	32	25	-5	10	-80	36	61	63	2	
KG6MQS	36	33	-5	10	-80	37	70	63	-7	Tree?
										Path Loss dB
24 GHZ NB										**95**
WB6DNX Omni	16db	30	-20	10	-4	16	46	43	-3	
WB6DNX horn1	25db	30	-10	10	-30	25	55	53	-2	
WB6DNX horn 2	16db	30	-20	10	-8	16	46	43	-3	
W6QIW	12	20	-17	20	-65	35	55	56	1	
N6RMJ	34db	33	-16	30	-64	34	67	66	-1	
N6RMJ #2	34db	33	-16	30	-68	34	67	67	0	
KC6QHP	12	30	-20	0	-7	35	65	33	-32	**Low Tx & Rx**
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)										