	July 25, 2009 SDMG-SBMS 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	
N6RMJ	30	40	-17	30	-86	35	75	71	-4	
W6QIW	30	37	-14	30	-90	35	72	74	2	
KE6HPZ	24	37	-17	30	-86	33	70	71	1	
KH6WZ	18	23	-16	10	-79	31	54	52	-2	
KN6VR	30	27	-12	10	-68	35	62	56	-6	
N7EME	39	31	-4	10	-74	38	69	64	-4	
WA6QYR	30	21	-25	0	-71	35	56	33	-23	
N6RMJ2	24	33	-7	10	-78	33	66	61	-5	
WB6UZZ	20	23	-16	10	-84	32	55	52	-2	
KJ6HZ	30	34	-12	10	-85	35	69	56	-13	
N9RIN	36	34	-10	20	-80	37	71	68	-3	
										Path Loss dB
24 GHZ NB										95
N6RMJ	34db	33	-29	0	-67	34	67	66	-1	
WB6DNX	15db	25	x		-15	15	40	####		very low tx
WB6DNX2	24db	25	x	10	-26	24	49	####		
W6QIW	12	21	-39	0	-74	35	56	56	0	
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)										