August 4, 2012 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		
N6VI	12	33	-15	10	-73	27	60	53	-7		
W6IEE	12	30	-18	10	-68	27	57	50	-7		
N6RMJ1	30	39	-6	20	-89	35	74	72	-2		
N6RMJ2	23	32	-14	10	-82	33	65	54	-11		
W6QIW	30	39	-8	10	-71	35	74	60	-14		
N9RIN	30	40	-13	10	-70	35	75	55	-20		
AF6NA	33	35	-7	20	-84	36	71	71	0		
KH6WZ	30	38	-5	10	-68	35	73	63	-10		
W6SZ	29	23	-12	0	-67	35	58	46	N/A		
WB6DNX2	12DB	30	-19	0	-64	12	42	39	-3		
W6OYJ	30	28	-17	20	-80	35	63	61	-2		
KE6HPZ	24	39.3	-7	20	-80	33	73	71	-1		
WB6JDH	23	30	-15	10	-72	33	63	53	-10		
WB6NOA	23	27	-17	10	-67	33	60	51	-9		
KC6QHP	19	30	-13	10	-76	31	61	55	-6		
N9RIN-2	36	36	-10	10	-64	37	73	58	-15		
K6NKC	30	37	-14	20	-77	35	72	64	-8		
KB6CJZ	18	29	-12	0	-70	31	60	46	-14		
24 GHz NB										95	
N6RMJ	30	34	-12	20	-60	34	68	59	-9	Path Loss dB	
W6QIW	23	21	-11	20	-68	40	61	60	-1		
KC6QHP	12	30	-14	20	-56	35	65	57	-8	-62	
W6OYJ	24	20	-20	20	-49	41	61	51	-10		
47GHZ										102	200
										Path Loss dB	Range feet
KC6QHP	12	14	-13	10	-76	40	54	55	1		
W6QIW	18	5	-28	10	-83	44	49	40	-9		
NB frequency is 10368 MHz, IF is 144 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 (used 44 dB preabmp this time)											
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)											
Replaced FW brick with QC Synth on 10GHz unit 2010											