10 GHz	June& July 2002 SDMWG EIRP/MDS Event					Range Feet	220		Path Loss dB	89
NB 10368										
				Atten.		Calc	Calc			
Call	Dish size "	Outpu t dBm	ERP PM dBm	Value dB	MDS Gen dBm	Ant Gain	ERP dBm	Meas ERP	Meas- Calc	
W6OYJ	30	25	−4.6	10	−85	35	60	62	1	
NE6O	18	10	−26	10	−48	31	41	40	−1	
WB6BKR	30	30	−13.4	10	−82	35	65	53	−12	
NB	Known Ant dB									
24 GHz WB										
	Dish Size "									95
W6OYJ	15	5	***		−64	37	42	######	######	
W6OYJ	12	5	−67	0	−40	35	40	−2		
24 GHz NB										
	Dish Size									
WB6IGP PC#2	24	20	−29	0	−33	41	61	36	−25	*
WB6IGP PC#1	24	20	−29	0	−32	41	61	36	−25	*
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 and Mixer loss										
- Amp & Horn gains.										
Path Loss = -37.5+20*LOG(Dist in feet)+20*LOG(Freq MHz)										
* After these tests it was discovered that the 24 GHz WB6IGP Pcom ODUs were aligned										
cross-polarized to the remote ERP/MDS sensor antenna. Thus the screwy results.										