| 10 GHz | July 2003 SDMG EIRP/MDS Event | | | | | 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 | | |
| W6OYJ | 30 | 24 | -5.5 | 10 | -84 | 35 | 59 | 61 | 2 | | 36DBIANT |
| K6QPV | 20 | 25 | -4.9 | 10 | -84 | 32 | 57 | 51 | -6 | | |
| KF6NKC | 18 | 23 | -9.5 | 10 | -84 | 31 | 54 | 57 | 3 | | |
| WB6BKR | 33 | 27 | -15.3 | 10 | -82 | 36 | 63 | 51 | -12 | | |
| KC6UQH | 33 | 29 | 0.4 | 10 | -84 | 36 | 65 | 67 | 2 | | |
| KF6C | 30 | 33 | 0 | 10 | -80 | 35 | 68 | 66 | -2 | | |
| | | | | | | | | | | | |
| 24 GHz | | | | | | | | | | 95 | |
| W6OYJ WB | 15 | 7 | -18 | 0 | -53 | 37 | 44 | 47 | 3 | | |
| WB6IGP NB | 24 | 20 | -6 | 0 | -33 | 41 | 61 | 59 | -2 | | |
| | | | | | | | | | | | |
| 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 & Mixer loss-Amp & Horn gain | | | | | | | | | | | |
| Path Loss = -37.5+20*LOG(Dist in feet)+20*LOG(Freq MHz) | | | | | | | | | | | |
| | | | | | | | | | | | |