

7/9/2017 50 MHz and Up MDS Results										
10 GHz										
95 dB Path Loss										
Name	Call	Dish size "	MDS Gen dBm	MDS Atten	Calc Ant Gain	Meas MDS	Meas MDS+ Calc Ant Gain	Implied NF assuming 500 Hz BW		Meas-Calc ERP
Oliver/Jim	KB6BA/N9JIM	36	-53	13	36.9	-190	-153	-6.3	Jim's ears/Oliver's rig	-2.0
Andreas	N6NU	30	-51	13	35.3	-188	-153	-5.9		-4.5
Jim M	N9JIM	18	-49	13	30.8	-186	-155	-8.3		0.4
Mike L	K6ML	24	-48	13	33.3	-185	-152	-4.8		-1.3
Oliver B	KB6BA	36	-53	13	36.9	-183	-146	0.7		-2.0
Brian K	WA6QDP	18	-45	13	30.8	-182	-151	-4.3		-0.9
Brian W	K6OJM	30	-45	13	35.3	-182	-147	0.1		-7.1
Dave F	AD6A	18	-43	13	30.8	-180	-149	-2.3		-2.2
Pete M	K6TJ	20	-40	13	31.8	-177	-145	1.6		-6.1
David V	K16CLA	12" panel	-23	10	25.0	-157	-132	14.9		-9.3
24 GHz										
102 dB Path Loss										
Name	Call	Dish size "	MDS Gen dBm	MDS Atten	Calc Ant Gain	Meas MDS	Meas MDS+ Calc Ant Gain	Implied NF assuming 500 Hz BW		
Jim M	N9JIM	18	-33	10	38.2	-182	-144	3.5		
MikeL	K6ML	24	-29	10	40.7	-178	-137	10.0		
Brian K	WA6QDP	18	-23	10	38.2	-172	-134	13.5		
Andreas	N6NU	30	-14	10	42.6	-163	-120	26.9		
Dave F	AD6A	18	0	10	38.2	-149	-111	36.5		
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)										