

		<i>user supplied</i>		<i>Remote RX, Rig TX</i>							
	7/9/2016	50 MHz and Up ERP/MDS Event				Range	419	ft		1.5	src ant height
	10 GHz										10 GHz
Name	Call	Dish size "	Output dBm	ERP PM dBm (+4 max)	Atten. Value dB (13-23)	Calc Ant Gain	Calc ERP dBm	Meas ERP	Meas- Calc		
Brian Kline	WA6QDP	18	41.8	-0.4	23	30.8	72.6	72.6	-0.1		
Pete B	W6DXJ	24	40.0	-0.6	23	33.3	73.3	72.4	-1.0		
Mike L	K6ML	20	34.8	-9.0	23	31.8	66.6	64.0	-2.6		
Oliver B	KB6BA	18	33.0	-1.4	13	30.8	63.8	61.6	-2.3		
Ian P	W6TCP	18	30.0	-1.8	13	30.8	60.8	61.2	0.3		
Pete M	K6TJ	18	30.0	-8.5	13	30.8	60.8	54.5	-6.4		
Gary L	AD6FP	18	29.0	-8.8	13	30.8	59.8	54.2	-5.7		
Brian W	K6OJM	18	30.0	-10.4	13	30.8	60.8	52.6	-8.3		
David Vieira	KI6CLA	12" panel	30.0	-11.0	13	25.0	55.0	52.0	-3.0		
Derek	AG6PO	12" panel	24.0	-12.5	3	25.0	49.0	40.5	-8.5		
	24 GHz	0.2 ft high tripod									24 GHz
Name	Call	Dish size "	Output dBm	ERP PM dBm (+4 max)	Atten. Value dB (13-23 best)	Calc Ant Gain	Calc ERP dBm	Meas ERP	Meas- Calc		
Brian Kline	WA6QDP	18	27.0	none	0	38.2	65.2	none	n/a		
Pete B	W6DXJ	24	28.5	-28.0	0	40.7	69.2	36.5	-32.7		
					freq						
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)											