

	U/L Antenna		
	Units	Rain	Clear
Elevation Angle	deg.	43.6	43.6
Slant Range	km	37511	37511
Uplink Availability	%	99.97	
Required GS EIRP	dBW	45.27	39.19
Available GS EIRP	dBW	92.70	92.70
EIRP Margin	dB	47.43	53.51
Free Space loss	dB	-213.32	-213.32
Gaseous Att	dB	-0.44	-0.37
Cloud Att	dB	-0.79	
Rain Fade	dB	-7.73	
Total Atmospheric loss	dB	-8.95	-0.37
Rain Fade		-8.58	
Min Rx Isotropic Power (RIP)	dBW	-177.00	-174.50
Max Rx Isotropic Power (RIP)	dBW	-172.00	
Polarization Loss	dB	-0.01	-0.01
Rec Ant Gain	dB	47.63	47.63
Pointing Loss	dB	0.00	0.00
Min Rec Signal Level	dBW	-129.38	-128.88
S/C NF including CR	dB	11.01	11.01
S/C Gain up to CR	dB	-4.56	-4.56
Antenna Temperature	K	290.00	290.00
System Noise Temp	dBK	35.64	35.64
Noise Power Density No	dBW/Hz	-192.96	-192.96
Io On-Station	dBW/Hz	-197.14	-197.14
Total No+Io	dBW/Hz	-191.56	-191.56
C/No	dB-Hz	63.58	66.08
C/(No+Io)	dB-Hz	62.18	64.68
Required C/(No+Io)	dB-Hz	61.00	61.00
Margin	dB	1.18	3.68