

Antenna Diameter	(m)	3.5	3.5
Scenario		Clear Sky	Rain
Uplink BW	(MHz)	20.8	20.8
Emission Code		20M8G7W	
Power @ flange	(dBW)	-1.5	8.8
Power density @ flange	(dBW/Hz)	-74.7	
E/S antenna diameter	(m)	3.5	3.5
E/S Antenna Gain	(dBi)	59.1	59.1
EIRP	(dBW)	57.6	67.9
ATM Loss	(dB)	0.8	0.8
FSL	(dB)	213.5	213.5
Rain Fade	(dB)	0	10.3
Satellite antenna gain (EOC)	(dB)	44.6	44.6
Satellite noise temp	(°K)	650	650
Satellite G/T	(dB/K)	16.5	16.5
C/N thermal up	(dB)	15.2	15.2
C/I INTRASYSTEM up	(dB)	11	11
C/I INTERSYSTEM up	(dB)	16.6	16.6
C/(N+I) Total	(dB)	8.8	8.8
FCC Off-Axis EIRP Limit at 2 degrees (FCC 25.138(a)(1))	(dBW/40 kHz)	11.0	
Antenna gain at 2 degrees	(dBi)	21.5	
Power at the antenna flange in 40 kHz	(dBW/40 kHz)	-28.7	
EIRP in 40 kHz at 2 degrees	(dBW/40 kHz)	-7.2	
Margin from FCC limit	dB	18.2	