



<b>(C/I)<sub>Up-Intrasystem</sub> (dB)</b>	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>(C/I)<sub>Up-ASI</sub> (dB)</b>	32.2	24.2	20.7	26.7	26.7	32.2	36.0
<b>(C/N)<sub>Uplink Thermal</sub> (dB)</b>	27.5	19.6	16.1	22.1	22.1	27.5	31.4
<b>C/(N<sub>thermal</sub>+N<sub>ASI</sub>+N<sub>intrasystem</sub>) (dB)</b>	24.7	18.0	14.7	20.3	20.3	24.7	27.0

**Downlink parameters**

	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>D4</b>	<b>D5</b>	<b>D6</b>	<b>D7</b>
<b>Downlink Frequency (MHz)</b>	11500	11500	11500	11500	11500	11500	11500
<b>Beam peak EIRP density (dBW/Hz)</b>	-23	-23	-23	-23	-23	-23	-23
<b>Downlink EIRP/Carrier (dBW)</b>	24.48	32.29	37.25	39.55	45.67	52.56	54.22
<b>Edge of coverage SSA (dB)</b>	6.0	6.0	6.0	6.0	6.0	6.0	6.0
<b>Downlink EIRP/Carrier at EOC (dBW)</b>	18.48	26.29	31.25	33.55	39.67	46.56	48.22
<b>Rx E/S Antenna Diameter (Metres)</b>	0.90	1.80	2.40	1.20	2.40	0.90	1.80
<b>Rx Antenna Efficiency</b>	0.65	0.65	0.65	0.65	0.65	0.65	0.65
<b>Rx Antenna Gain (dB)</b>	38.8	44.8	47.3	41.3	47.3	38.8	44.8
<b>Rx System Noise temp (K)</b>	110.0	110.0	110.0	110.0	110.0	110.0	110.0
<b>Rx E/S G/T (dB/K)</b>	18.4	24.4	26.9	20.9	26.9	18.4	24.4
<b>Antenna mispointing error (dB)</b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>Atmospheric loss (dB)</b>	0.3	0.3	0.3	0.3	0.3	0.3	0.3
<b>Downlink Path loss (dB)</b>	206.1	206.1	206.1	206.1	206.1	206.1	206.1
<b>Downlink Rain Attenuation (dB)</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>(C/I)<sub>Dn Intra-system</sub> (dB)</b>	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>(C/I)<sub>Down-ASI</sub> (dB)</b>	16.9	22.9	25.4	19.4	25.4	16.9	22.9
<b>(C/N)<sub>Downlink Thermal</sub> (dB)</b>	11.1	17.2	19.7	13.6	19.7	11.2	17.2
<b>C/(N<sub>thermal</sub>+N<sub>ASI</sub>+N<sub>intrasystem</sub>) (dB)</b>	10.1	16.0	18.3	12.5	18.3	10.1	16.0

**End-to-End**

	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>D4</b>	<b>D5</b>	<b>D6</b>	<b>D7</b>
<b>(C/N+I) - Total Actual (dB)</b>	9.9	13.9	13.1	11.9	16.2	9.9	15.7
<b>(C/N+I) - Total Required(dB)</b>	7.4	7.4	10.8	7.4	9.9	5.6	8.7
<b>Margin (dB)</b>	2.5	6.5	2.3	4.5	6.3	4.3	7.0