

(C/I)_{Up-Intrasystem} (dB)	30.0	30.0	30.0	30.0	30.0	30.0	30.0
(C/I)_{Up-ASI} (dB)	32.2	24.2	20.7	24.2	26.7	32.2	36.0
(C/N)_{Uplink Thermal} (dB)	25.5	17.6	17.1	17.6	20.1	25.5	29.4
C/(N_{thermal}+N_{ASI}+N_{intrasystem}) (dB)	23.6	16.5	15.4	16.5	18.9	23.6	26.2

Downlink parameters

	D1	D2	D3	D4	D5	D6	D7
Downlink Frequency (MHz)	12000	12000	12000	12000	12000	12000	12000
Beam peak EIRP density (dBW/Hz)	-26	-26	-26	-26	-26	-26	-26
Downlink EIRP/Carrier (dBW)	21.48	29.29	34.25	36.55	42.67	49.56	51.22
Edge of coverage USA (dB)	3.0	6.0	6.0	6.0	6.0	3.0	6.0
Downlink EIRP/Carrier at EOC (dBW)	18.48	23.29	28.25	30.55	36.67	46.56	45.22
Rx E/S Antenna Diameter (Metres)	0.90	1.80	4.50	1.80	2.40	0.90	1.80
Rx Antenna Efficiency	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Rx Antenna Gain (dB)	39.2	45.2	53.2	45.2	47.7	39.2	45.2
Rx System Noise temp (K)	110.0	110.0	110.0	110.0	110.0	110.0	110.0
Rx E/S G/T	18.8	24.8	32.8	24.8	27.3	18.8	24.8
Antenna mispointing error (dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Atmospheric loss (dB)	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Downlink Path loss (Free Space loss)	206.4	206.4	206.4	206.4	206.4	206.4	206.4
Downlink Rain Attenuation (dB)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(C/I)_{Dn Intra-system} (dB)	30.0	30.0	30.0	30.0	30.0	30.0	30.0
(C/I)_{Down-ASI} (dB)	16.9	22.9	30.9	22.9	25.4	16.9	22.9
(C/N)_{Downlink Thermal} (dB)	11.1	14.2	22.1	14.2	16.7	11.2	14.2
C/(N_{thermal}+N_{ASI}+N_{intrasystem}) (dB)	10.1	13.5	21.0	13.5	15.9	10.1	13.5

End-to-End

	D1	D2	D3	D4	D5	D6	D7
(C/N+I) - Total Actual (dB)	9.9	11.8	14.3	11.8	14.2	9.9	13.3
(C/N+I) - Total Required(dB)	7.4	7.4	10.8	7.4	9.9	5.6	8.7
Margin (dB)	2.5	4.4	3.5	4.4	4.3	4.3	4.6