

| <b>General</b>                           | <b>Unit</b> |         |
|--|-------------|---------|
| User terminal type                       |             | RBGAN   |
| Emission Designator                      |             | 30K0G1X |
| Modulation                               |             | QPSK    |
| <b>Uplink</b>                            |             |         |
| Frequency                                | GHz         | 1.6     |
| User terminal elevation angle            | (deg)       | 20.0    |
| User terminal EIRP towards satellite     | (dBW)       | 13.3    |
| Path Loss                                | (dB)        | 188.8   |
| Mean atmospheric loss                    | (dB)        | 0.1     |
| Satellite G/T                            | (dB/K)      | -10     |
| Adjacent channel interference allocation | (dB)        | 0.2     |
| Up-path C/No                             | (dBW/Hz)    | 42.8    |
| <b>Downlink</b>                          |             |         |
| Frequency                                | GHz         | 3.6     |
| SAS elevation angle                      | (deg)       | 5.0     |
| Satellite EIRP                           | (dBW)       | -24.5   |
| Path Loss                                | (dB)        | 195.7   |
| Mean atmospheric loss                    | (dB)        | 0.1     |
| SAS G/T                                  | (dB/K)      | 32.3    |
| Random loss                              | (dB)        | 1.0     |
| Down-path C/No                           | (dBW/Hz)    | 39.6    |
| <b>Total</b>                             |             |         |
| Mean satellite C/IMo                     | (dB/Hz)     | 60.0    |
| Co-channel interference                  | (dB/Hz)     | 99.0    |
| Adjacent sat. interference allocation    | (dB)        | 1.0     |
| Mean overall C/No                        | (dB/Hz)     | 36.9    |
| Mean overall C/N                         | (dB)        | -7.8    |
| <b>Margin</b>                            |             |         |
| C/N objective                            | (dB)        | -10.0   |
| C/N margin                               | (dB)        | 2.2     |