

Exhibit B

Antenna Patterns

EXHIBIT B

Plots for SeaTel terminals models GX60 and 4012GX

The following attachment contains all the plots requested for showing the compliance of the SeaTel terminals above with the requirements established by FCC §25.138 and §25.209. The plots refer to the frequencies listed in Table 1 below.

Table 1 - Measurement points for plots

Tx frequencies (§25.138)	29.5 GHz	30.0 GHz
Rx frequencies (§25.209)	19.7 GHz	20.2 GHz

Each plot is compared with the relevant mask derived from the FCC references above.

1. **Plots for terminal type GX60**
 - 1.1 **Transmit plots (compliance with FCC §25.138)**
 - 1.1.1 **Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)**

Figure 1 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

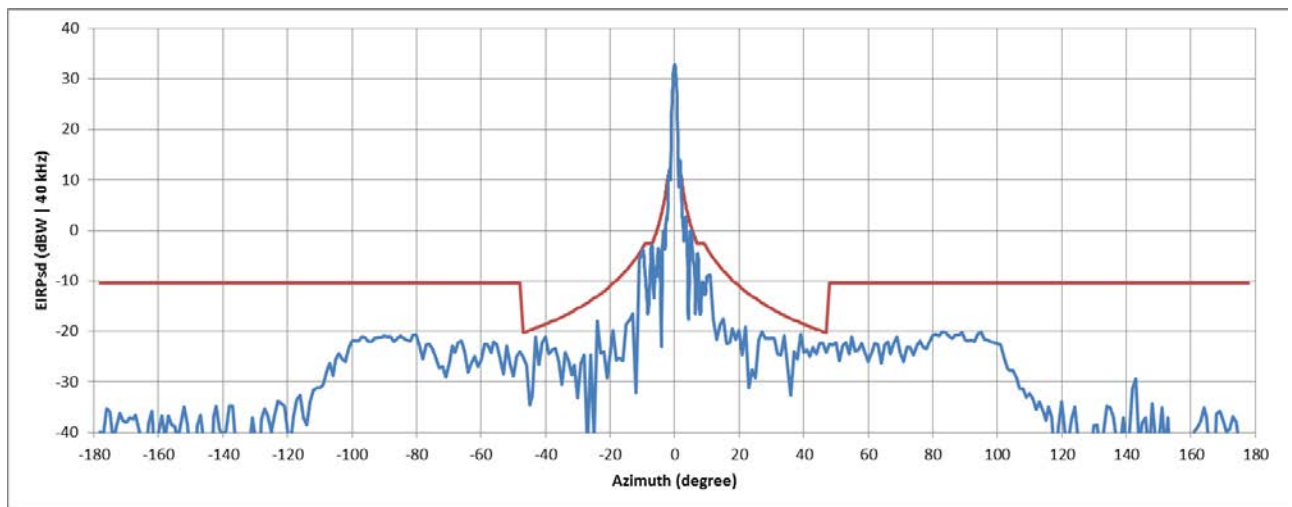
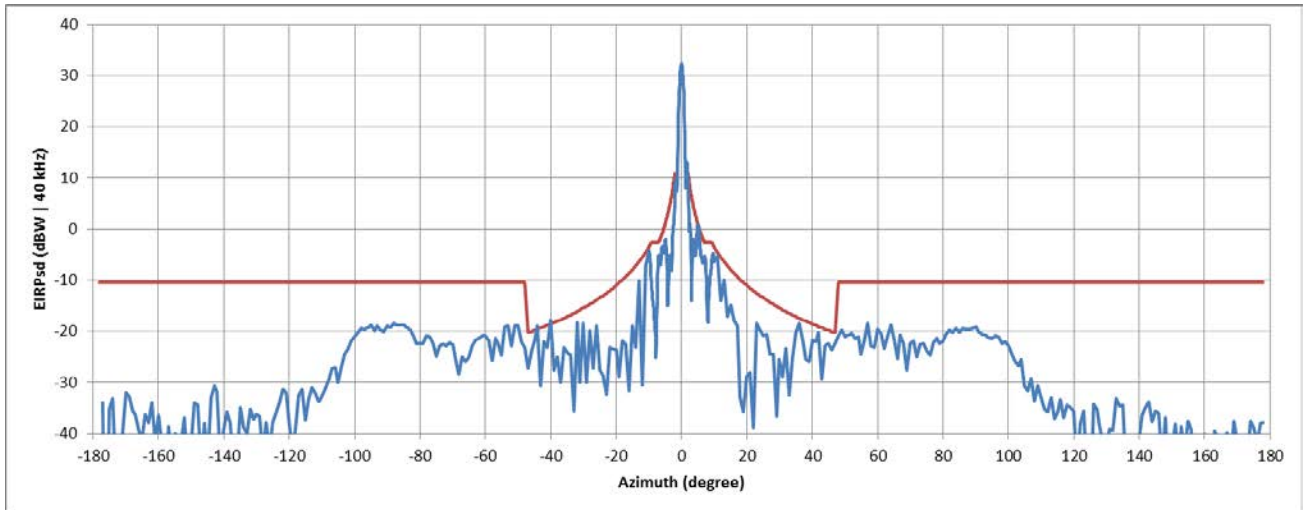


Figure 2 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



1.1.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 3 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

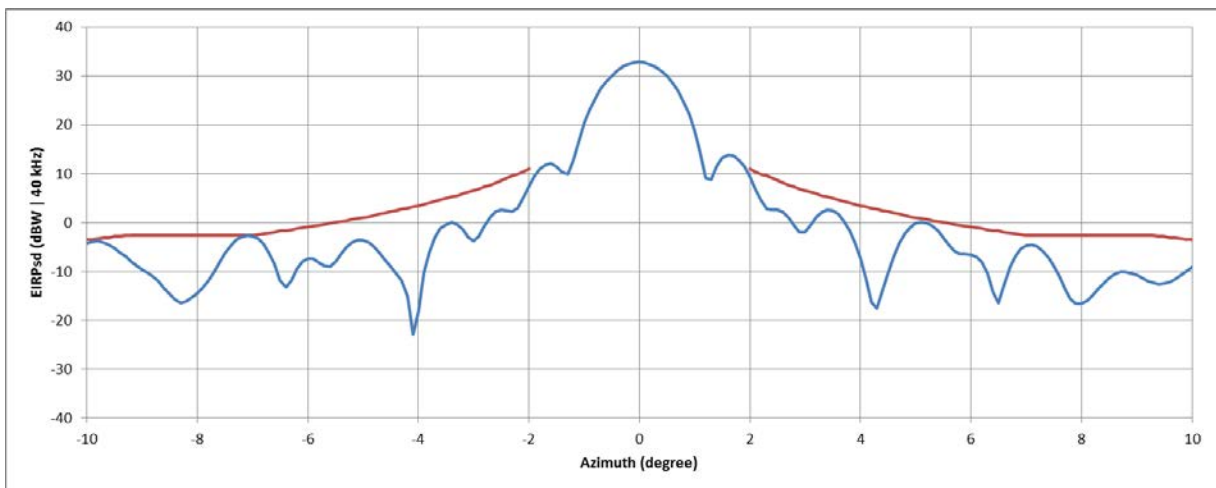
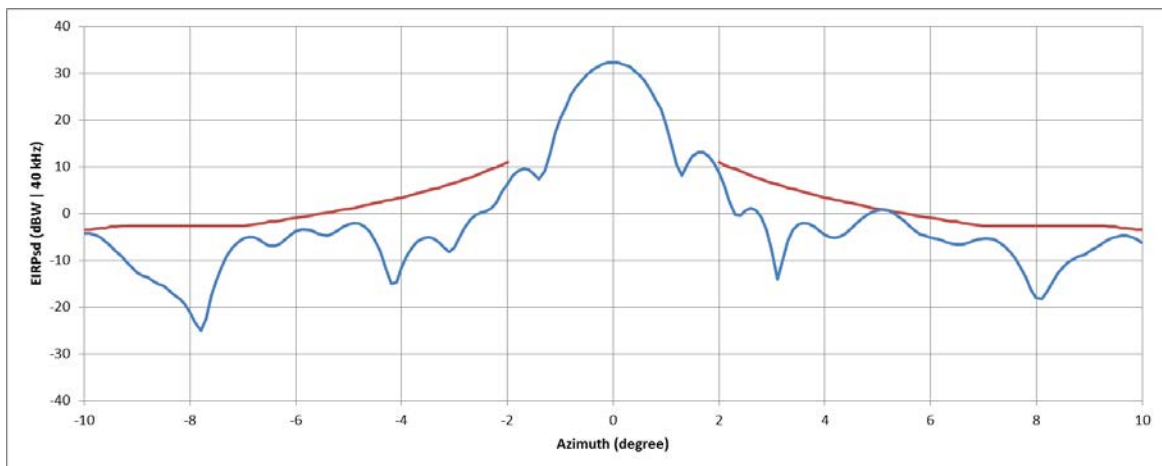


Figure 4 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



1.1.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 5 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

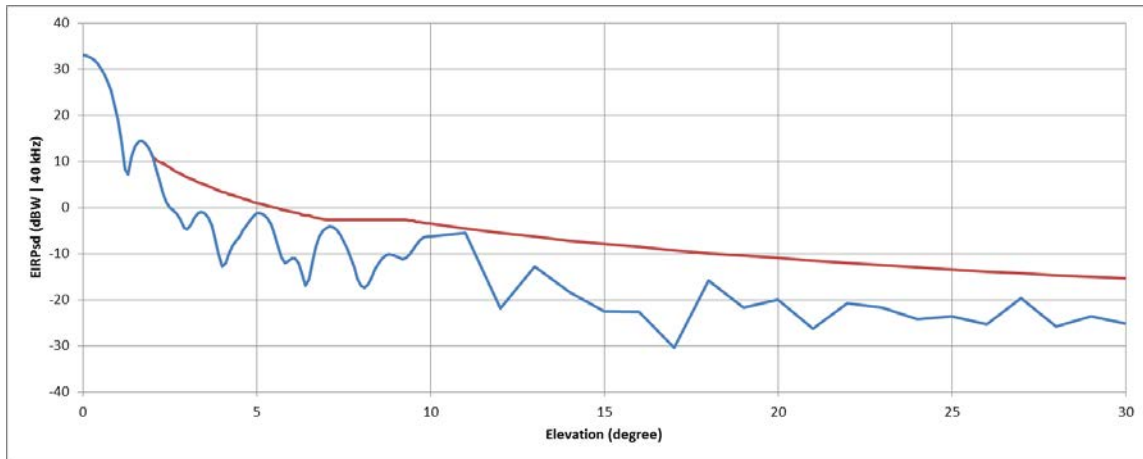
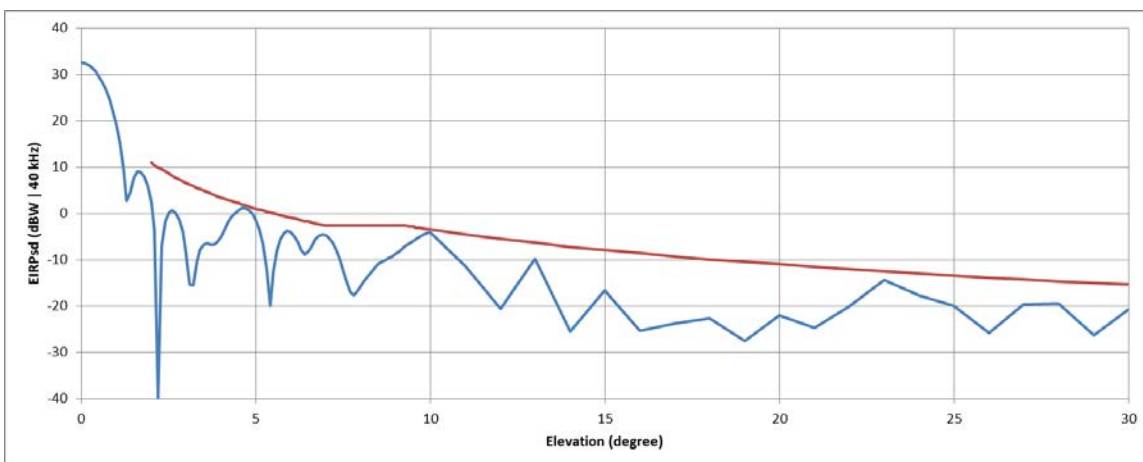


Figure 6 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



1.1.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 7 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

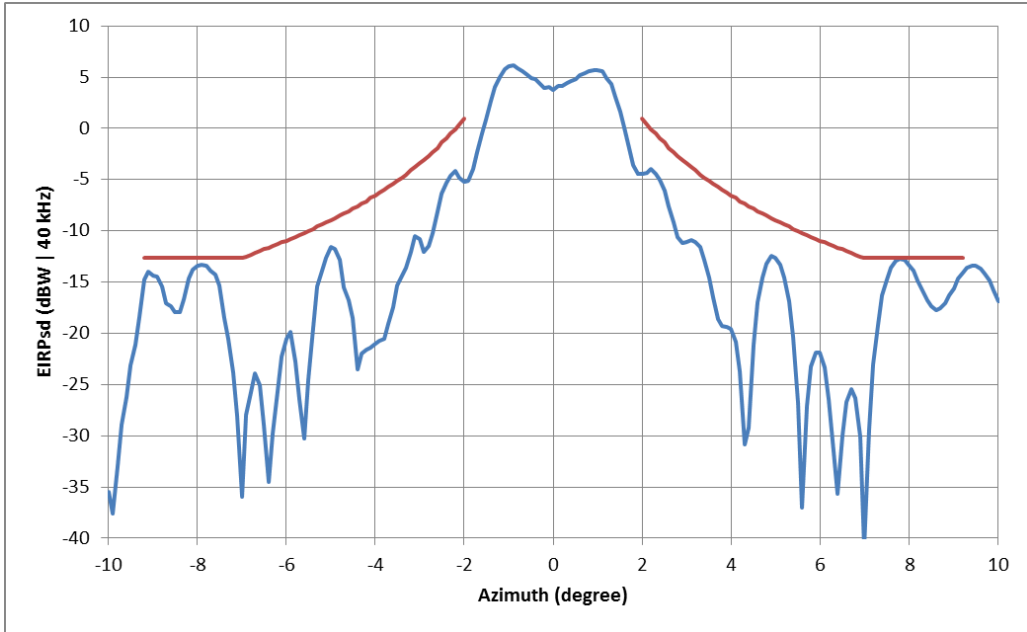
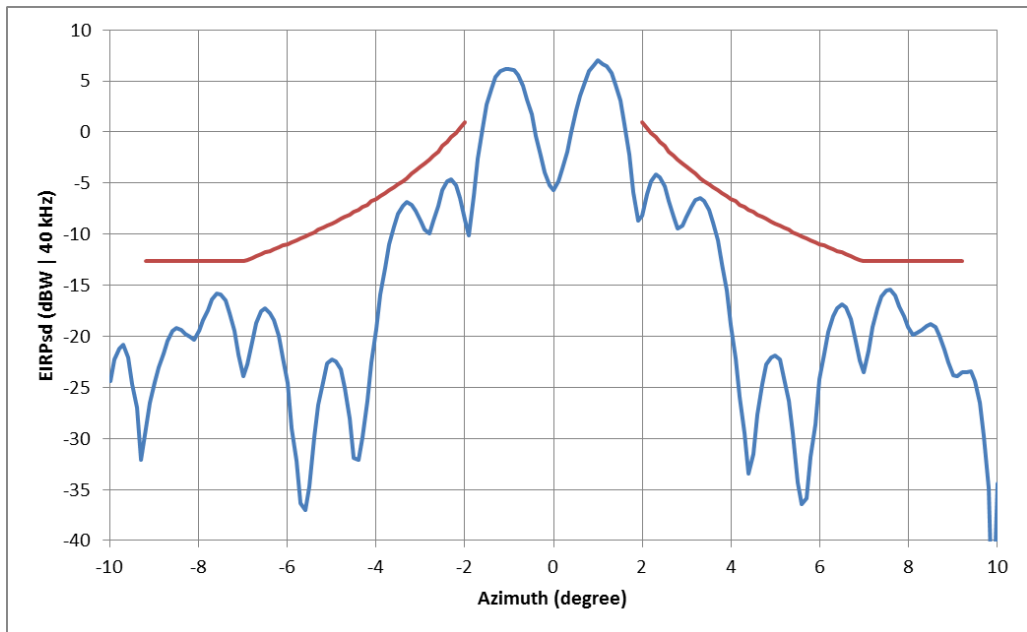


Figure 8 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



1.1.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 9 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

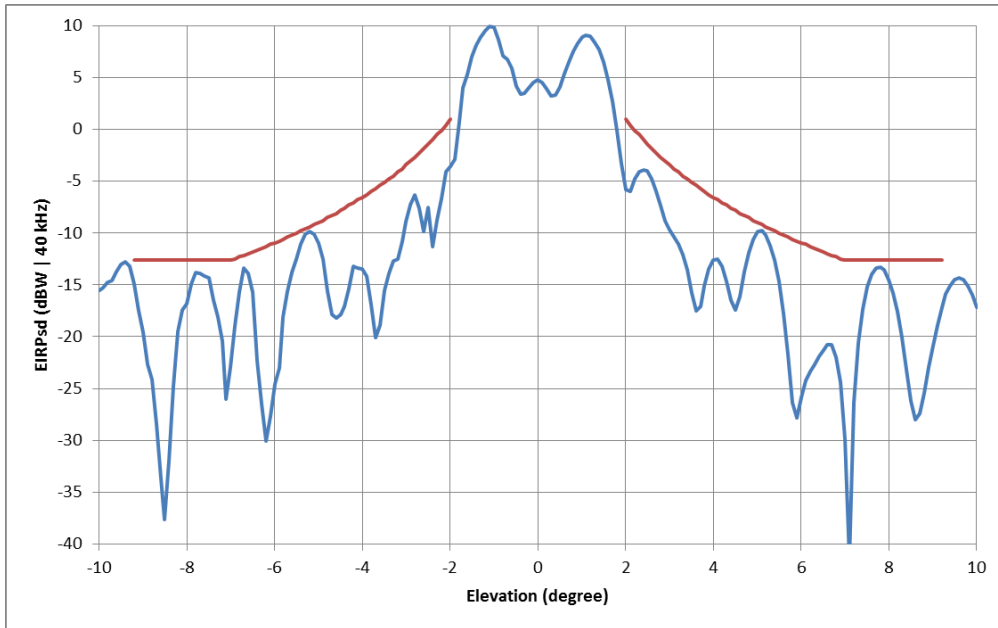
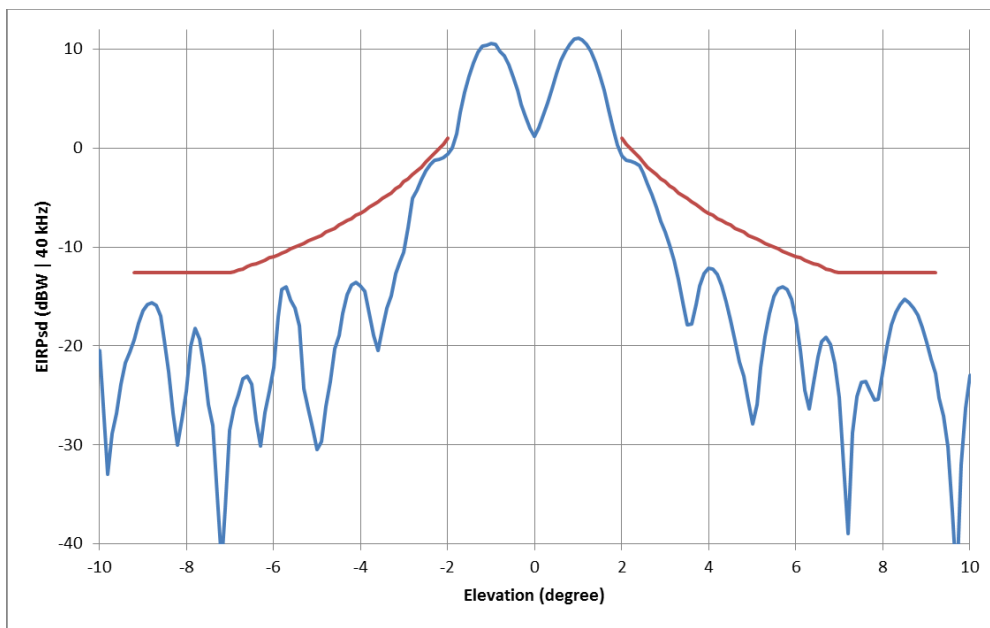


Figure 10 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



1.2 Receive plots (compliance with FCC §25.209)

1.2.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 11 - Plot for 19.7 GHz

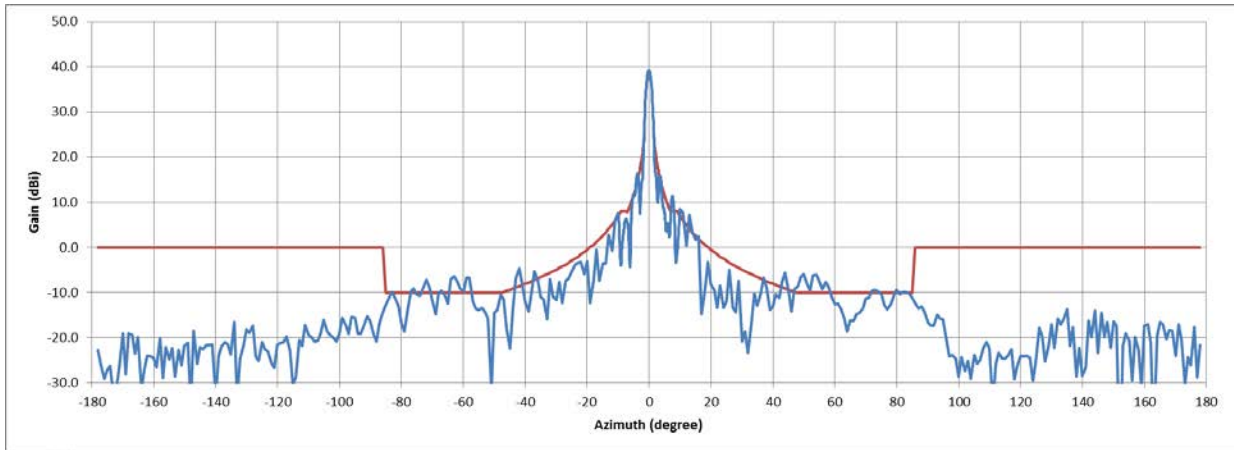
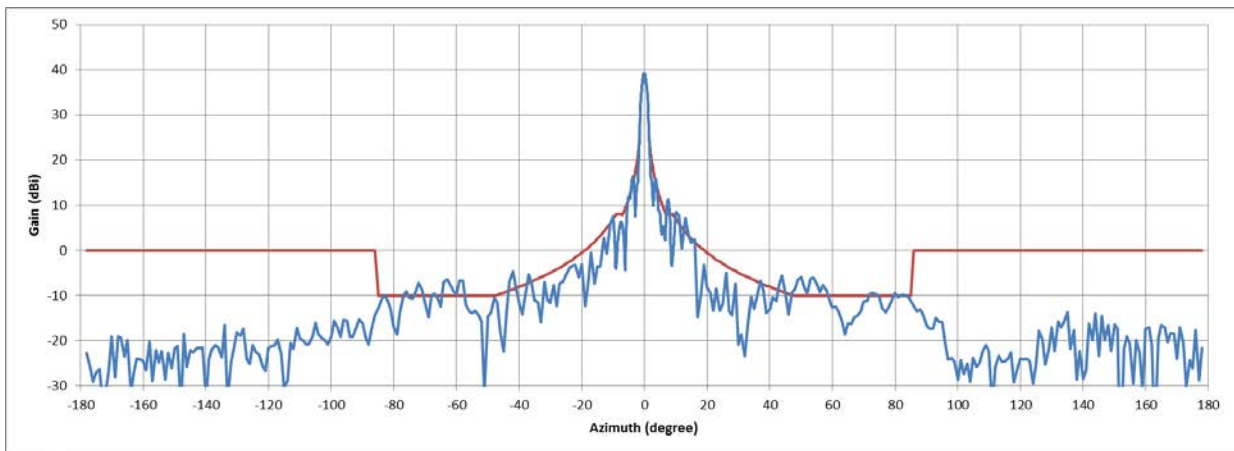


Figure 12 - Plot for 20.2 GHz



1.2.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 13 - Plot for 19.7 GHz

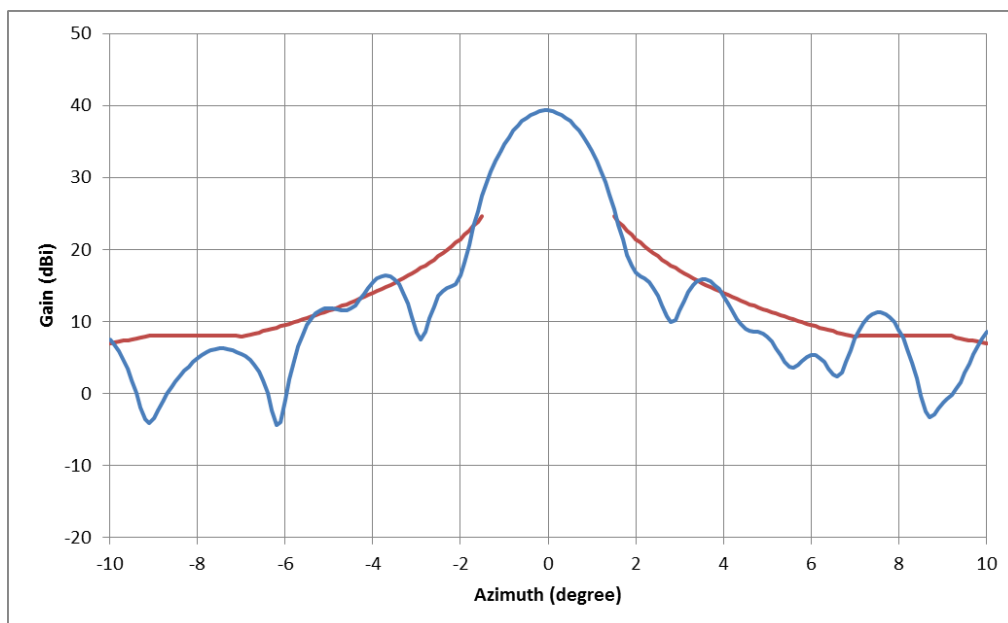
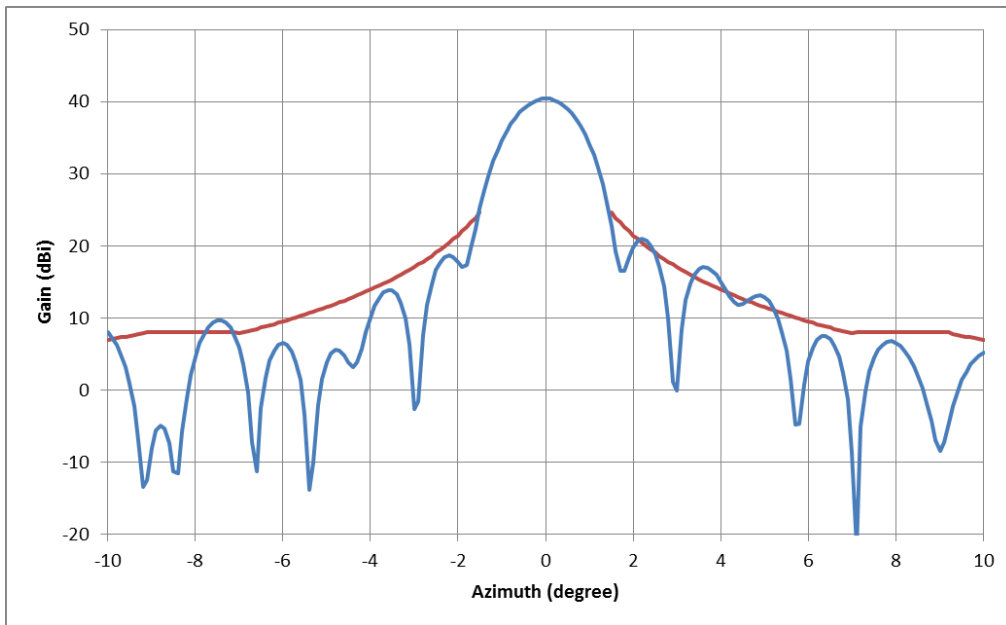


Figure 14 - Plot for 20.2 GHz



1.2.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 15 - Plot for 19.7 GHz

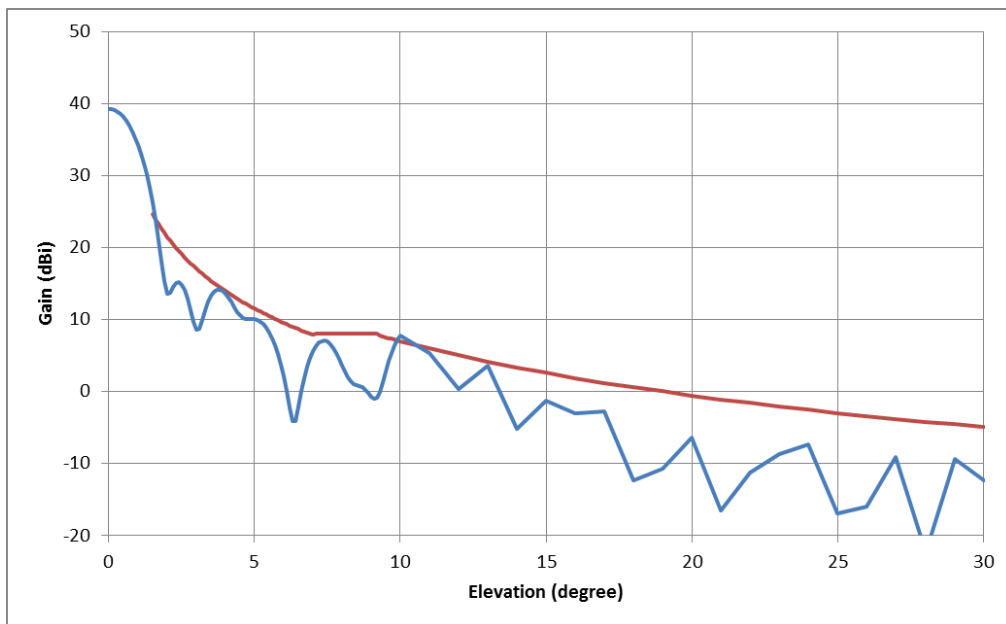
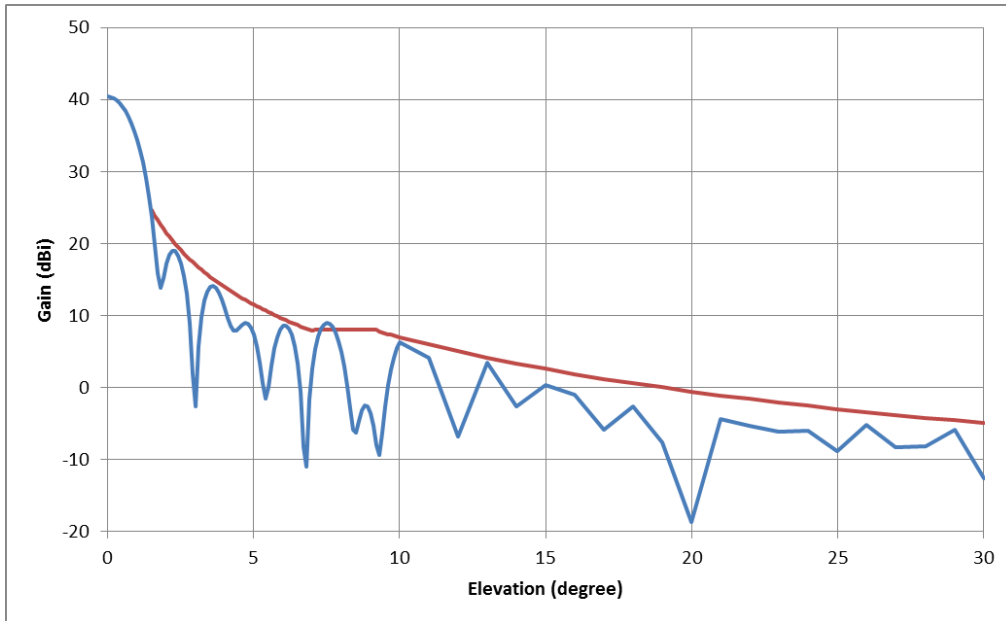


Figure 16 - Plot for 20.2 GHz



1.2.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 17 - Plot for 19.7 GHz

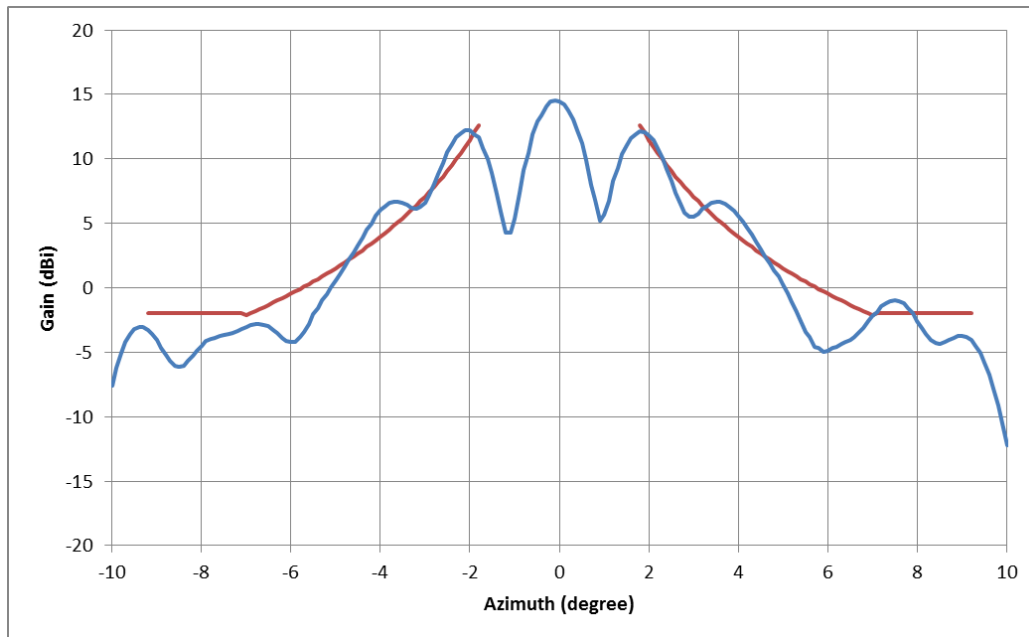
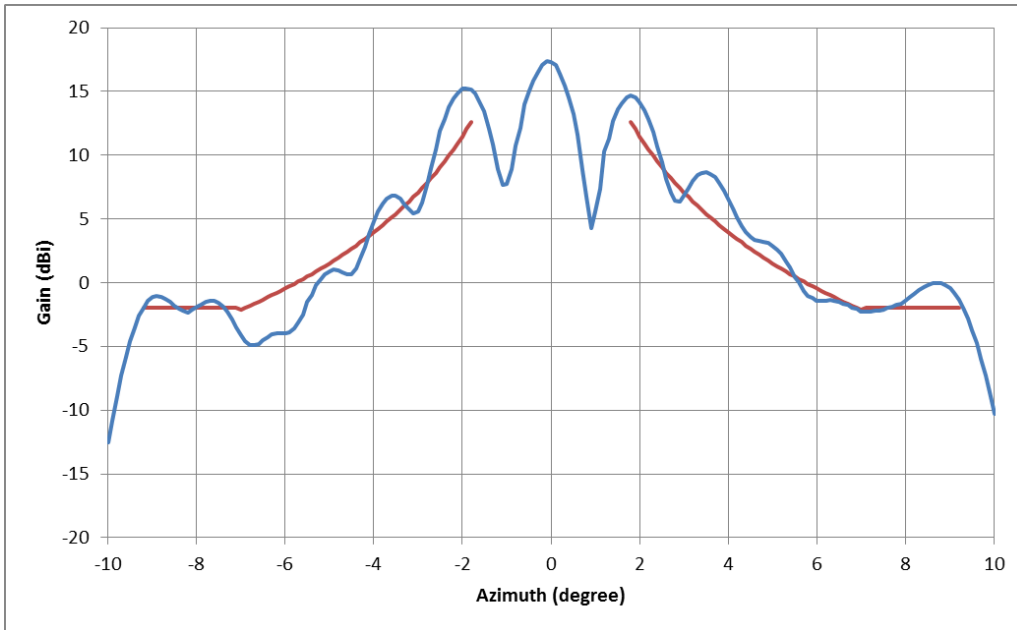


Figure 18 - Plot for 20.2 GHz



1.2.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 19 - Plot for 19.7 GHz

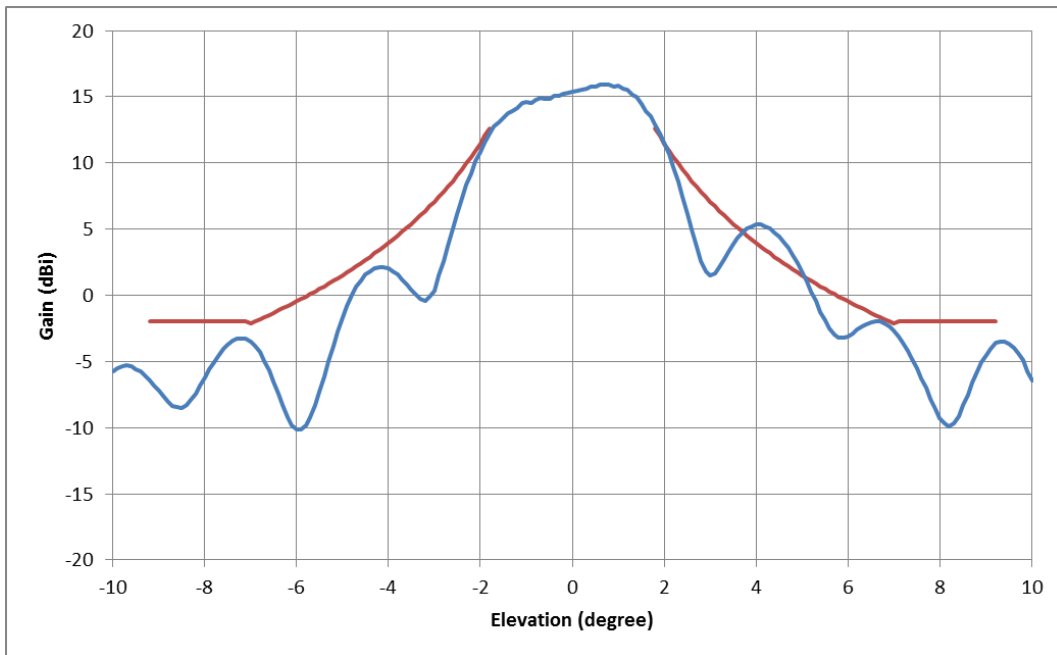
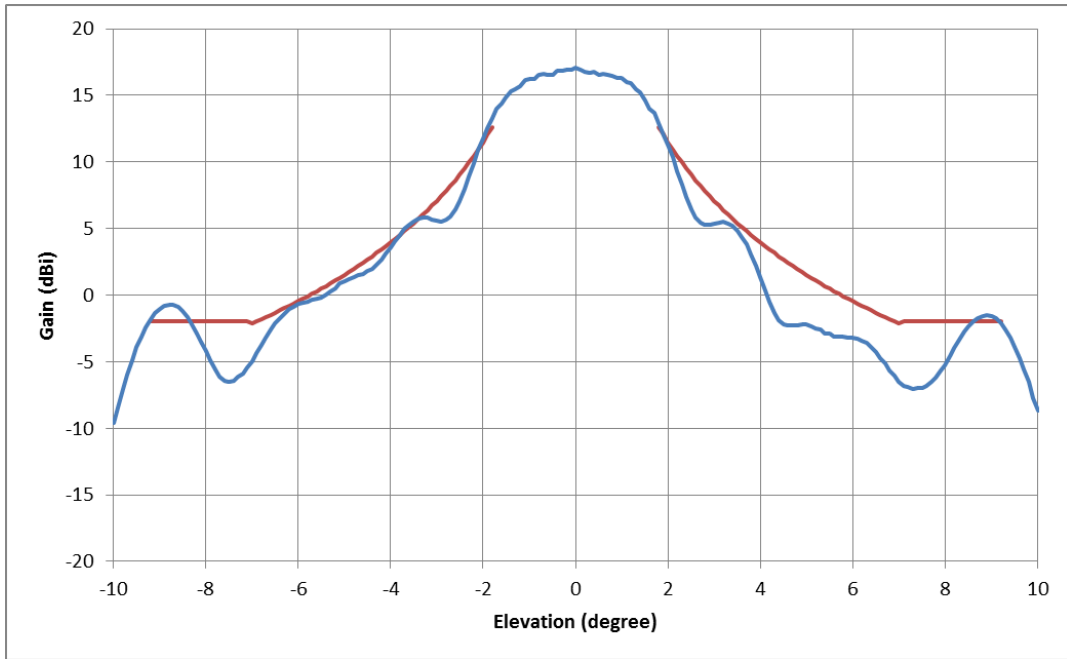


Figure 20 - Plot for 20.2 GHz



2. Plots for terminal type 4012GX

2.1 Transmit plots (compliance with FCC §25.138)

2.1.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 21 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

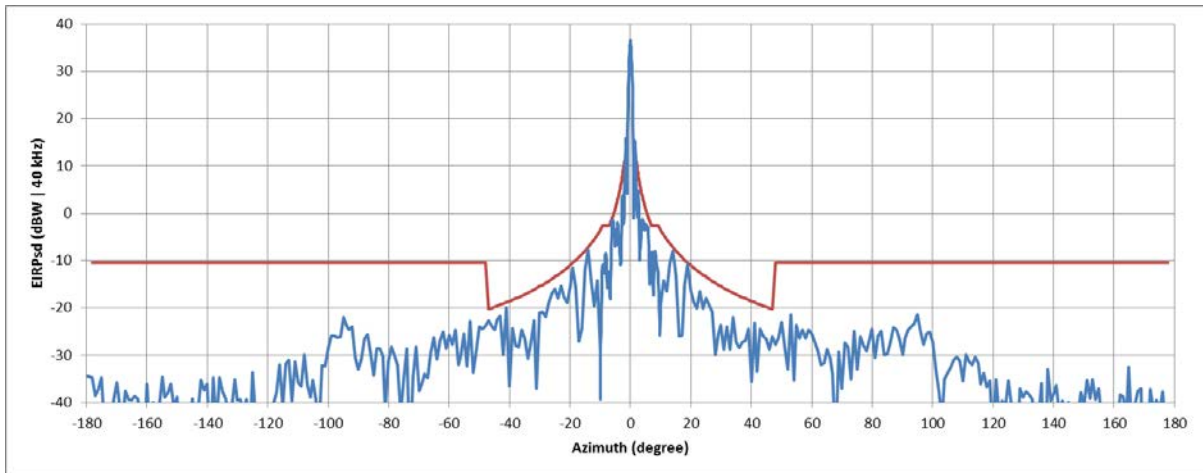
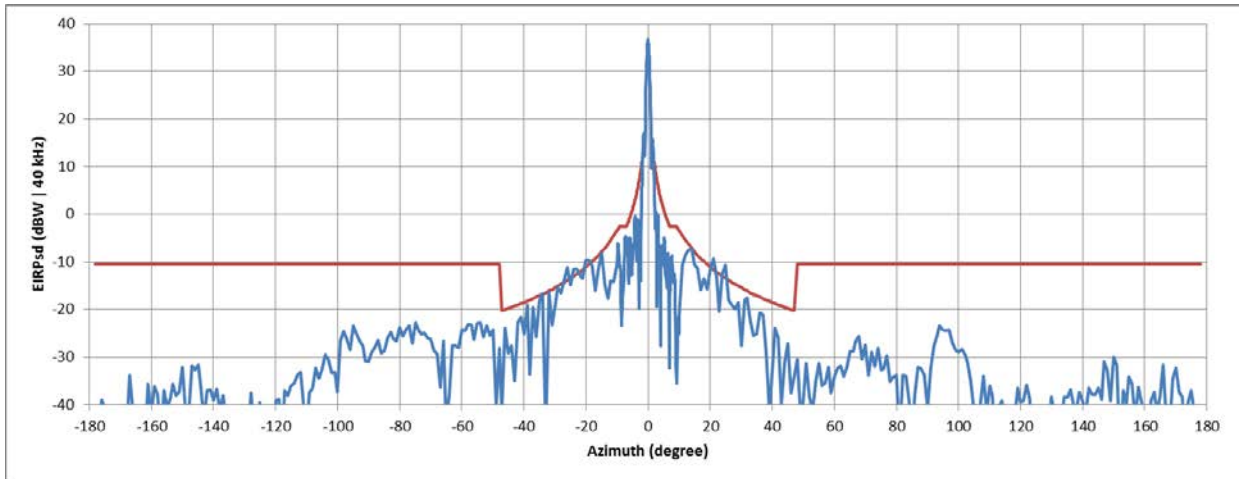


Figure 22 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



2.1.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 23 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

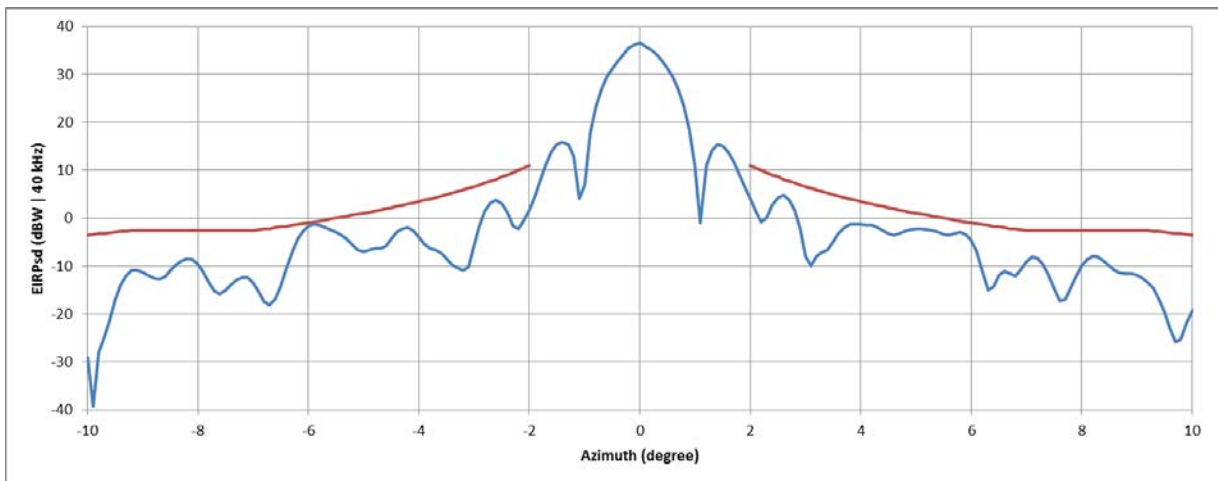
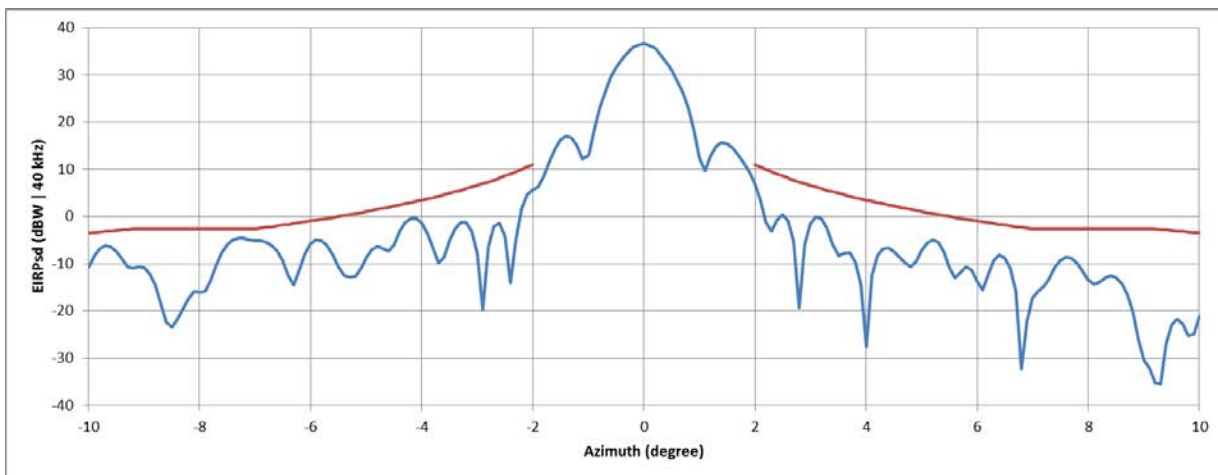


Figure 24 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



2.1.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 25 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

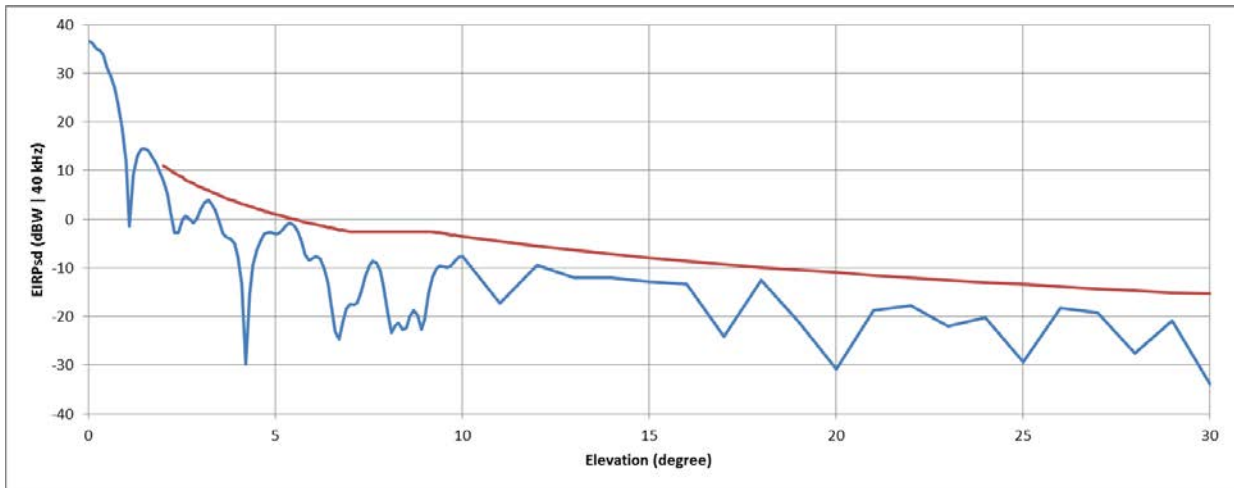
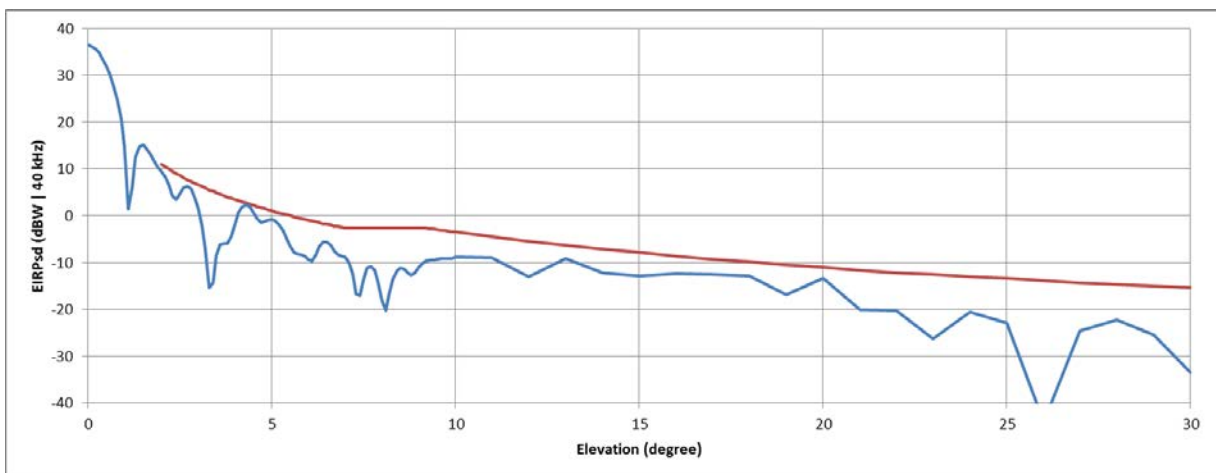


Figure 26 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



2.1.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 27 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

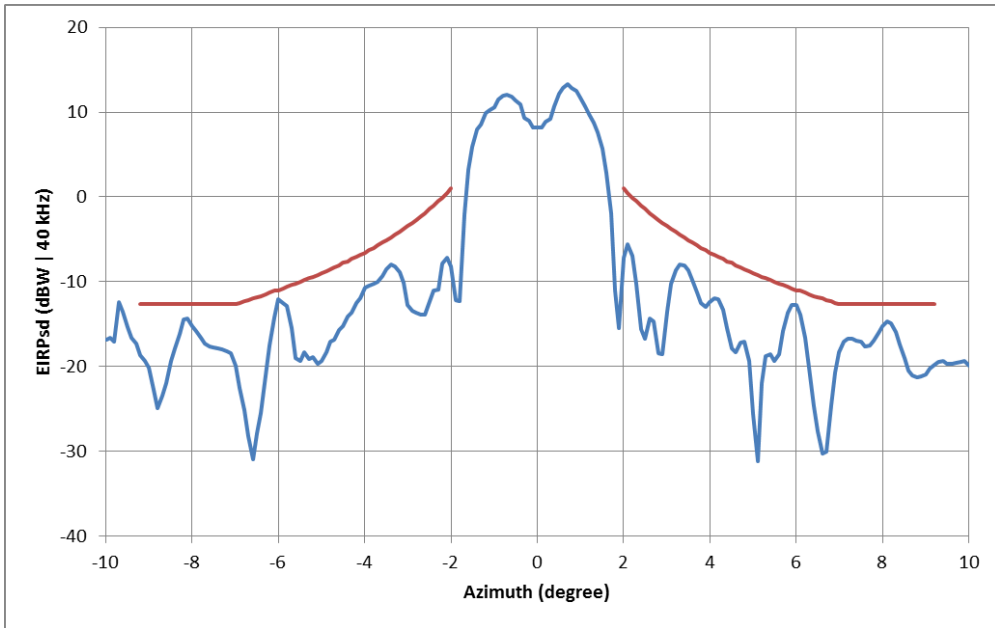
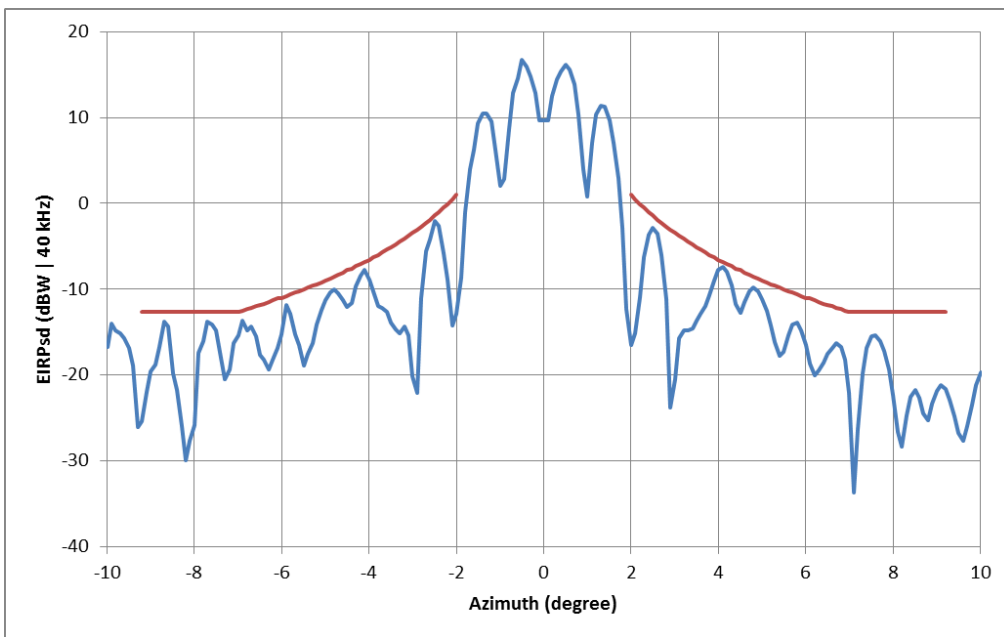


Figure 28 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



2.1.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 29 - Plot for 29.5 GHz - $P_{in} = -10.5$ dBW/40kHz

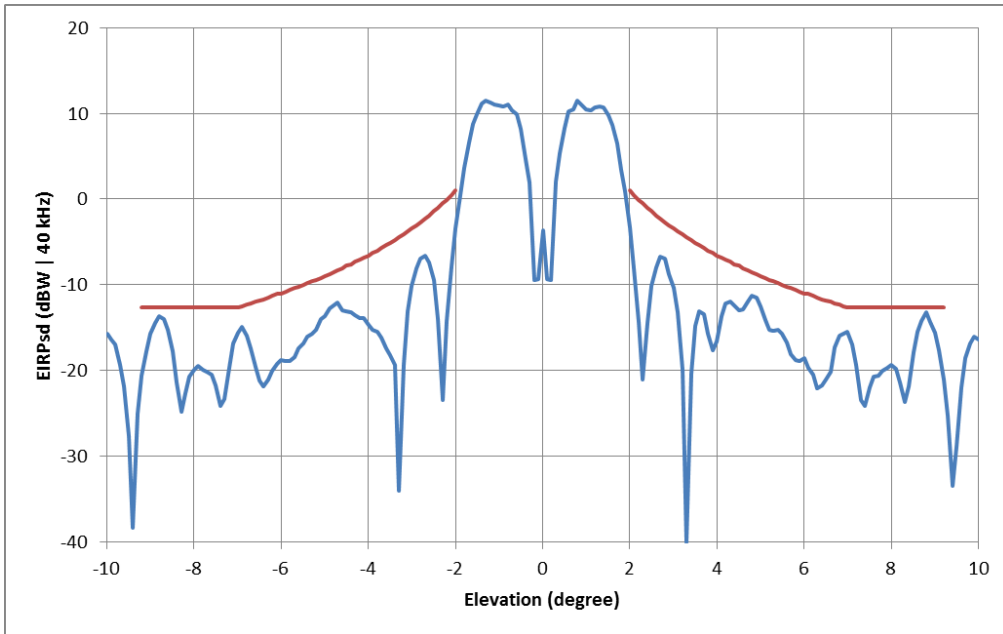
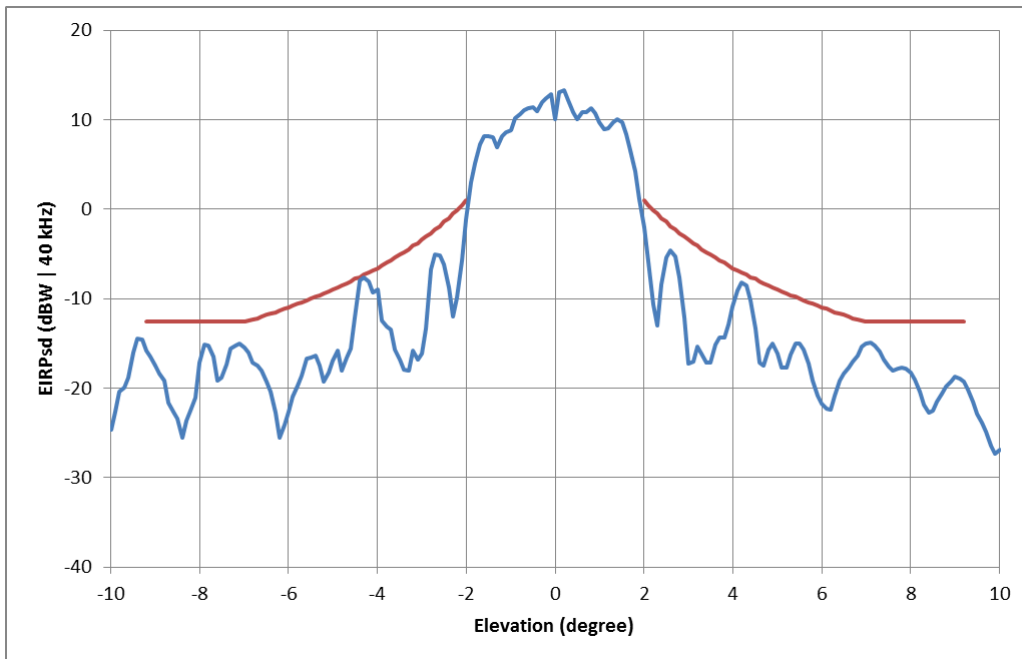


Figure 30 - Plot for 30.0 GHz - $P_{in} = -10.5$ dBW/40kHz



2.2 Receive plots (compliance with FCC §25.209)

2.2.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 31 - Plot for 19.7 GHz

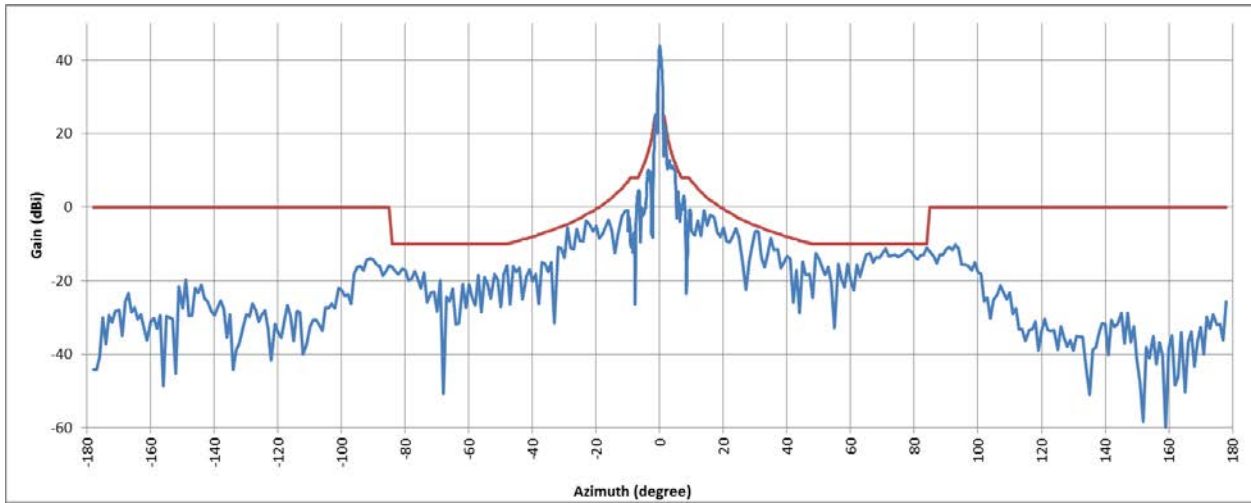
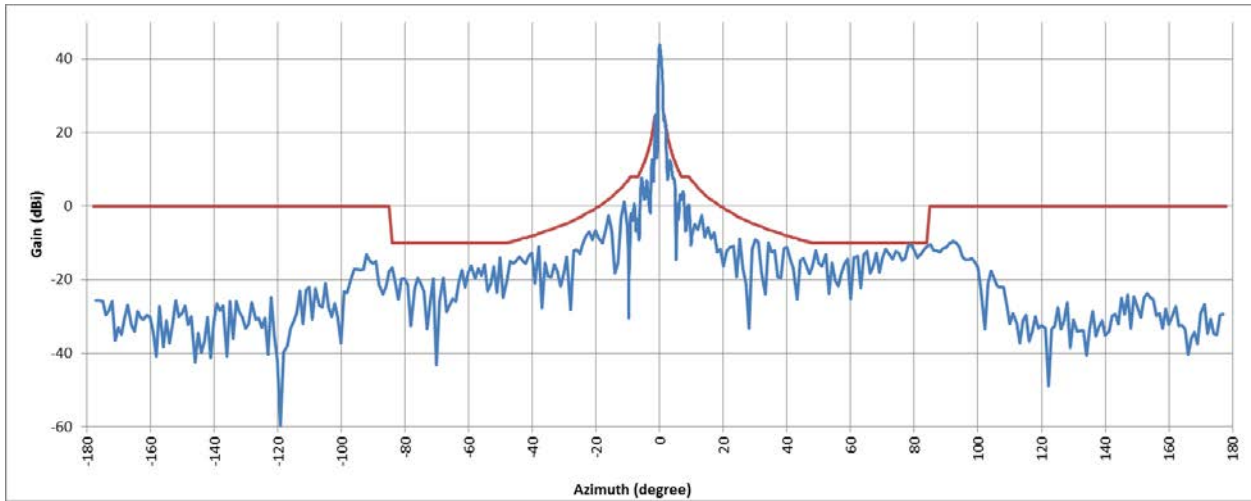


Figure 32 - Plot for 20.2 GHz



2.2.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 33 - Plot for 19.7 GHz

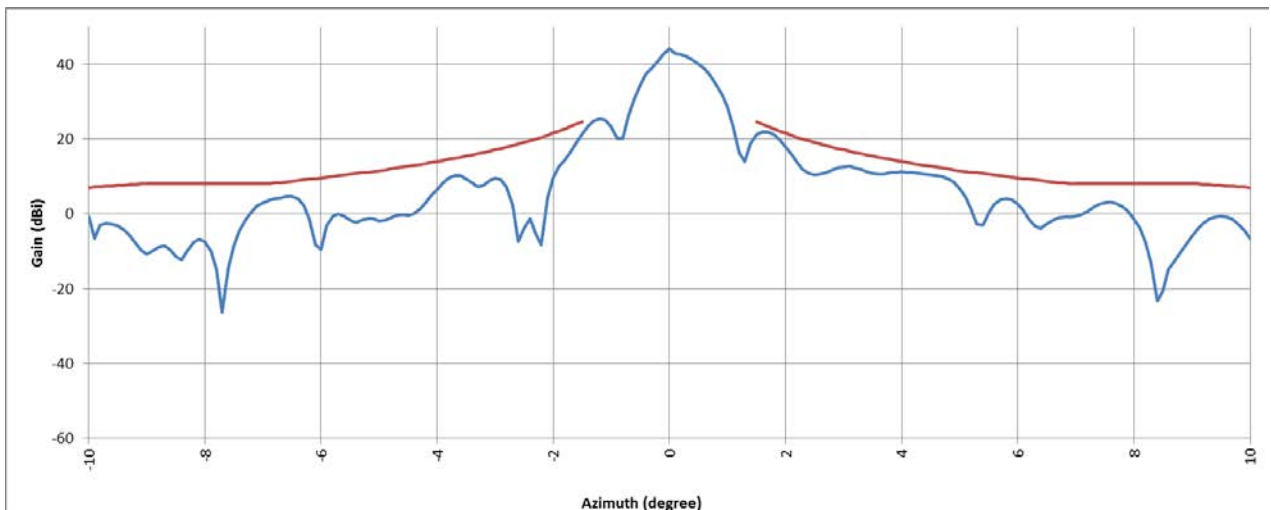
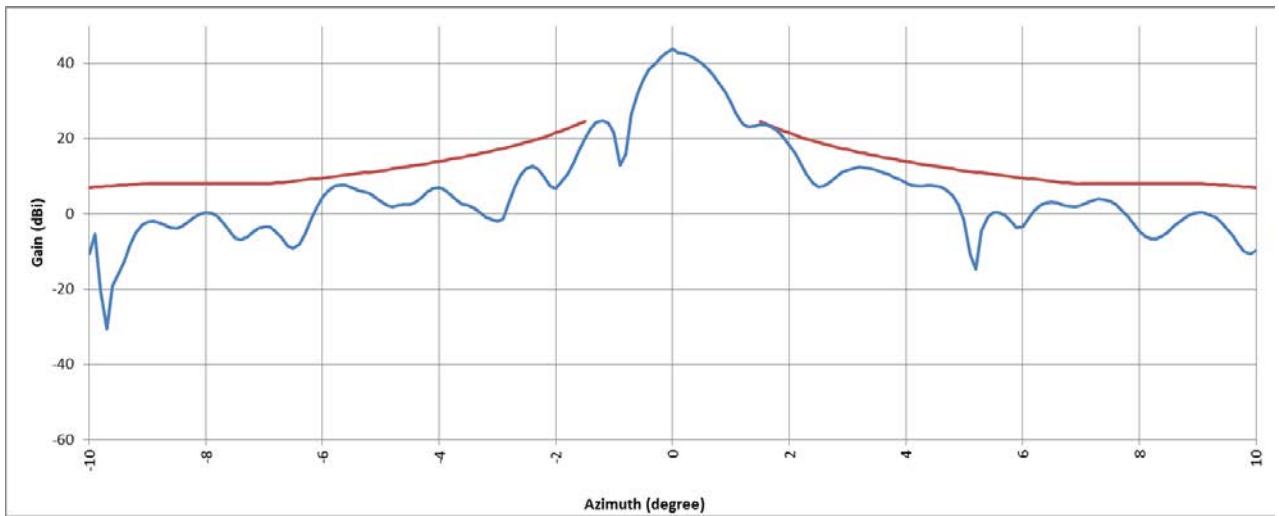


Figure 34 - Plot for 20.2 GHz



2.2.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 35 - Plot for 19.7 GHz

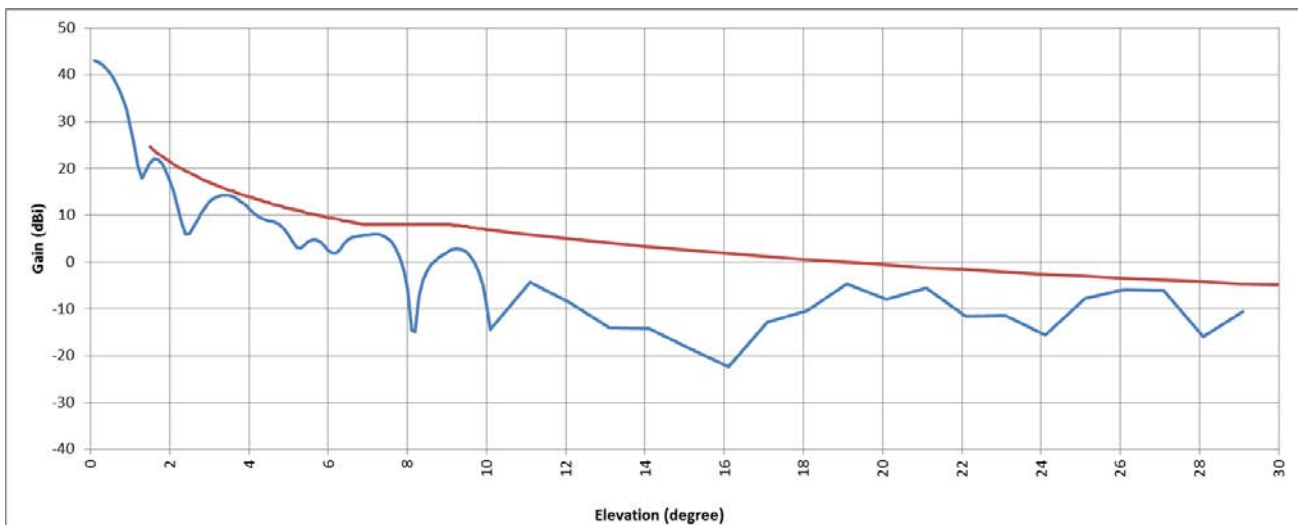
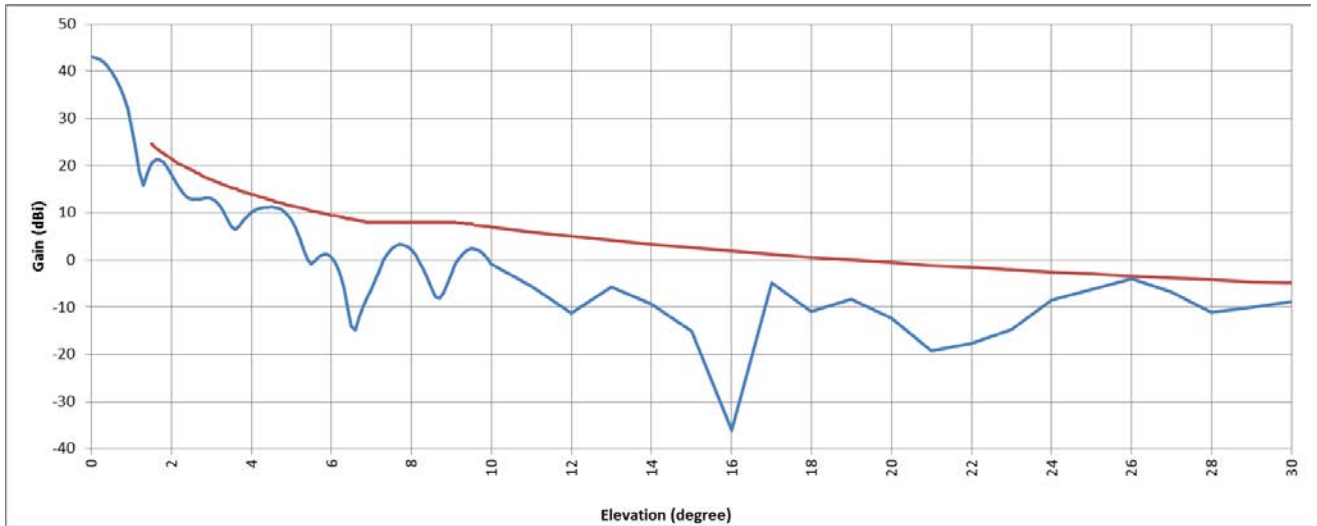


Figure 36 - Plot for 20.2 GHz



2.2.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 37 - Plot for 19.7 GHz

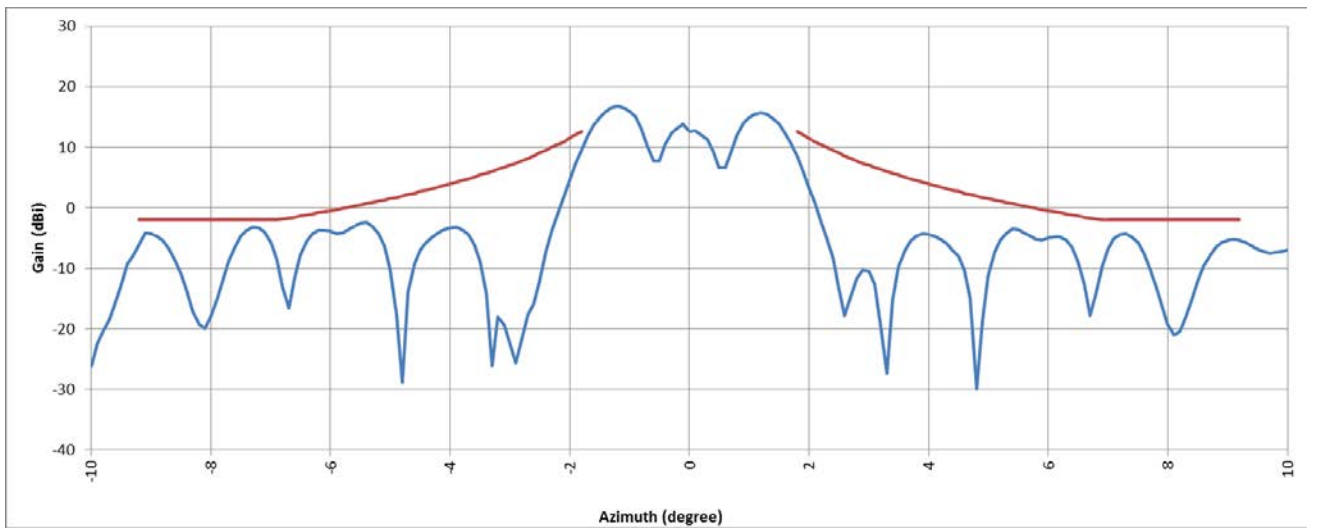
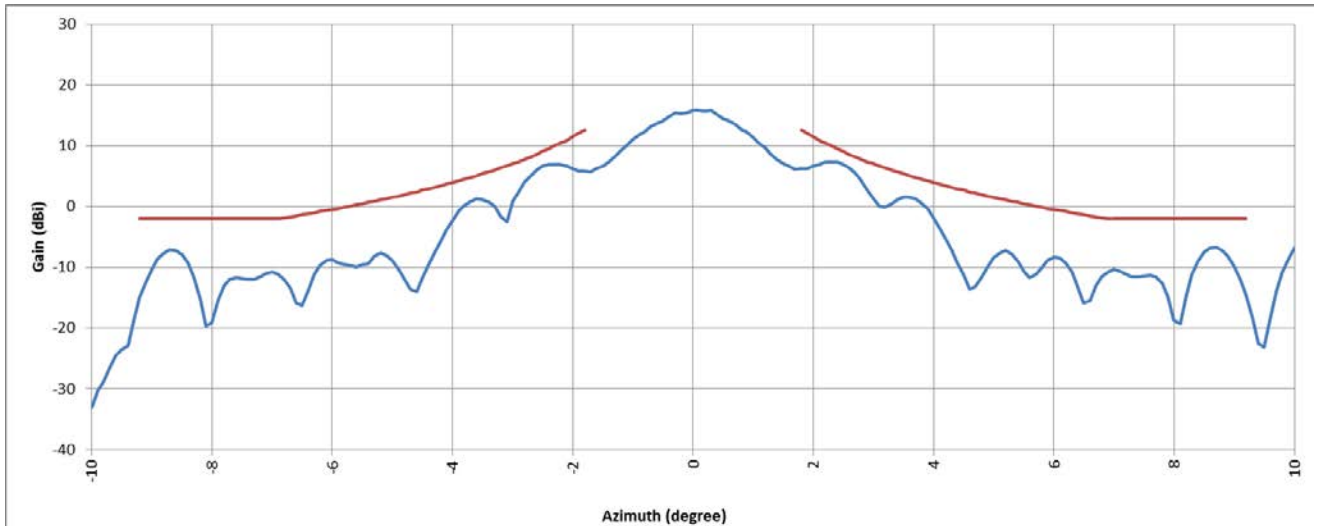


Figure 38 - Plot for 20.2 GHz



2.2.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 39 - Plot for 19.7 GHz

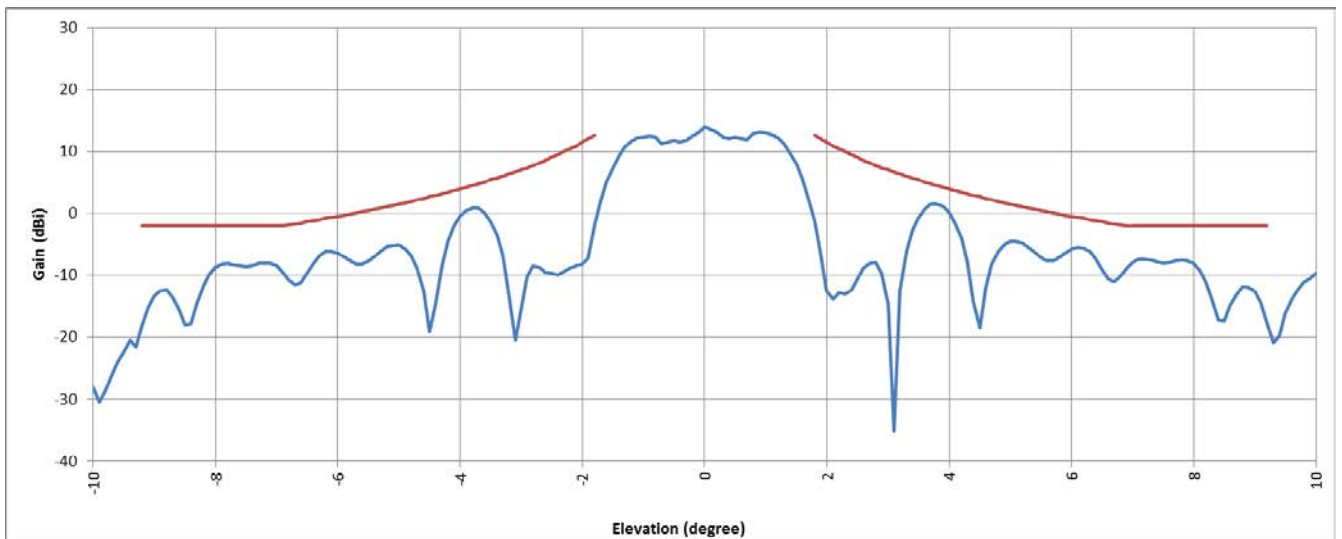
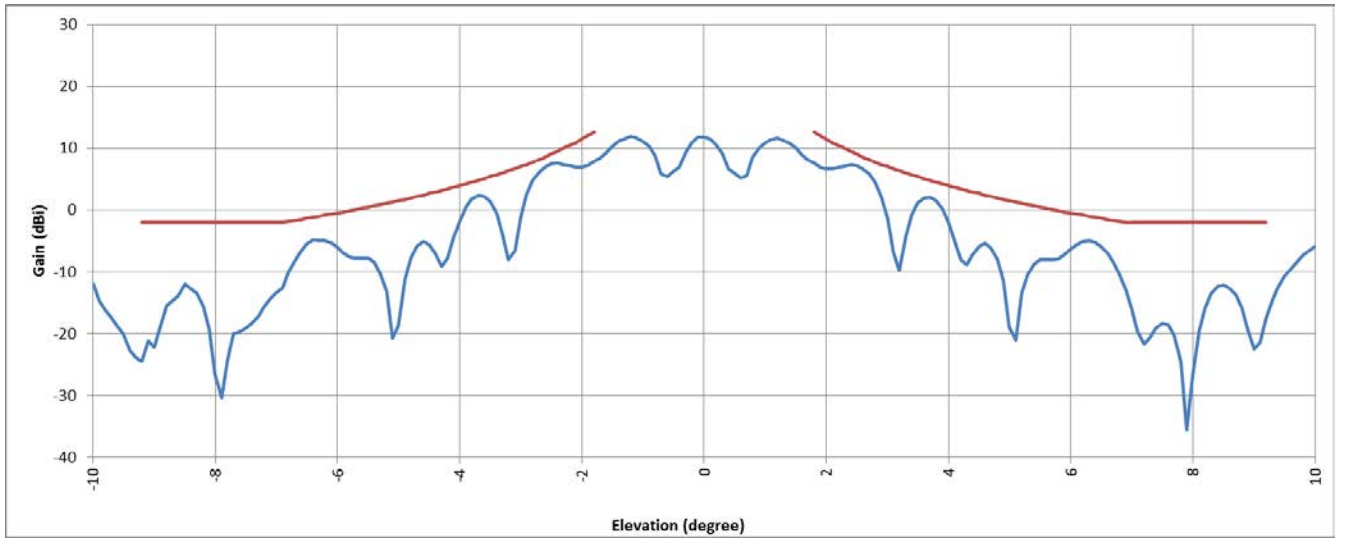


Figure 40 - Plot for 20.2 GHz



**ISAT US Inc.
FCC Form 312
Exhibit F**

Plots for JRC terminal model JUE-60GX

The following attachment contains all the plots requested for showing the compliance of the JRC terminal model JUE-60GX with the requirements established by FCC §25.138 and §25.209. The plots refer to the frequencies listed in Table 1 below.

Table 1 - Measurement points for plots

Tx frequencies (§25.138)	29.5 GHz	29.75 GHz	30.0 GHz
Rx frequencies (§25.209)	19.7 GHz	19.95 GHz	20.2 GHz

Each plot is compared with the relevant mask derived from the FCC references above.

1. Plots for terminal type JUE60GX

1.1 Transmit plots (compliance with FCC §25.138)

1.1.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 1 - Plot for 29.5 GHz

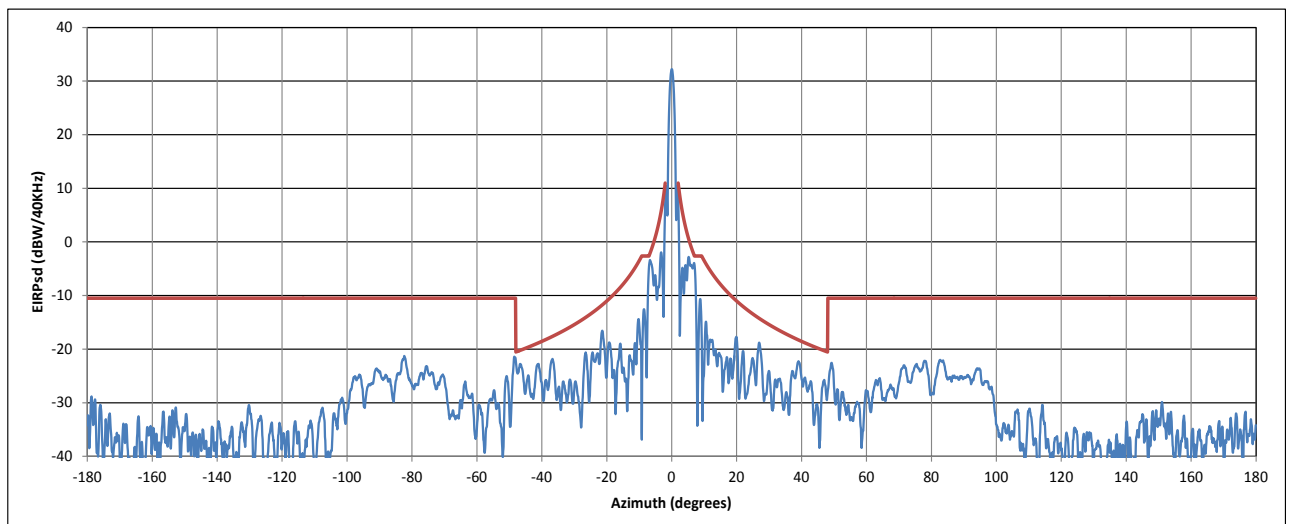


Figure 2 - Plot for 29.75 GHz

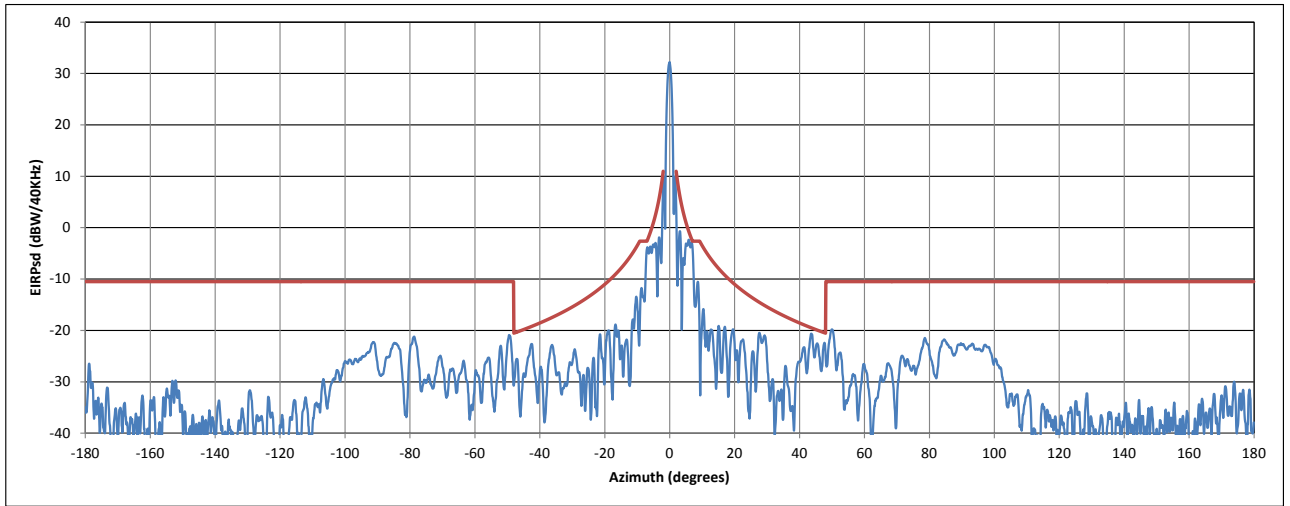
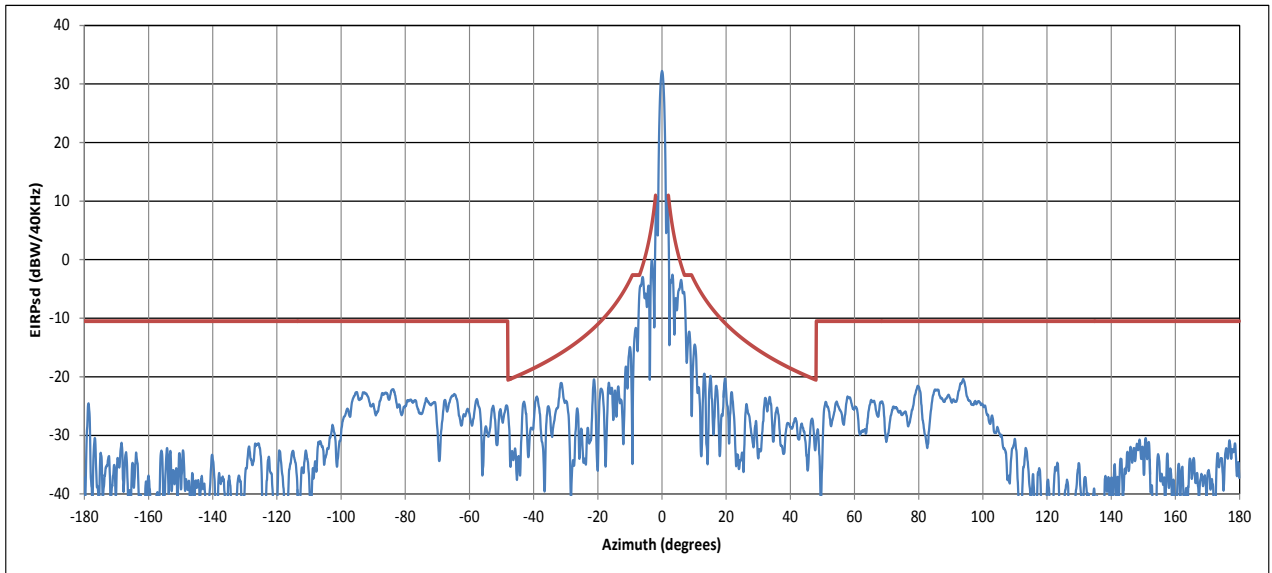


Figure 3 - Plot for 30.0 GHz



1.1.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 4 - Plot for 29.5 GHz

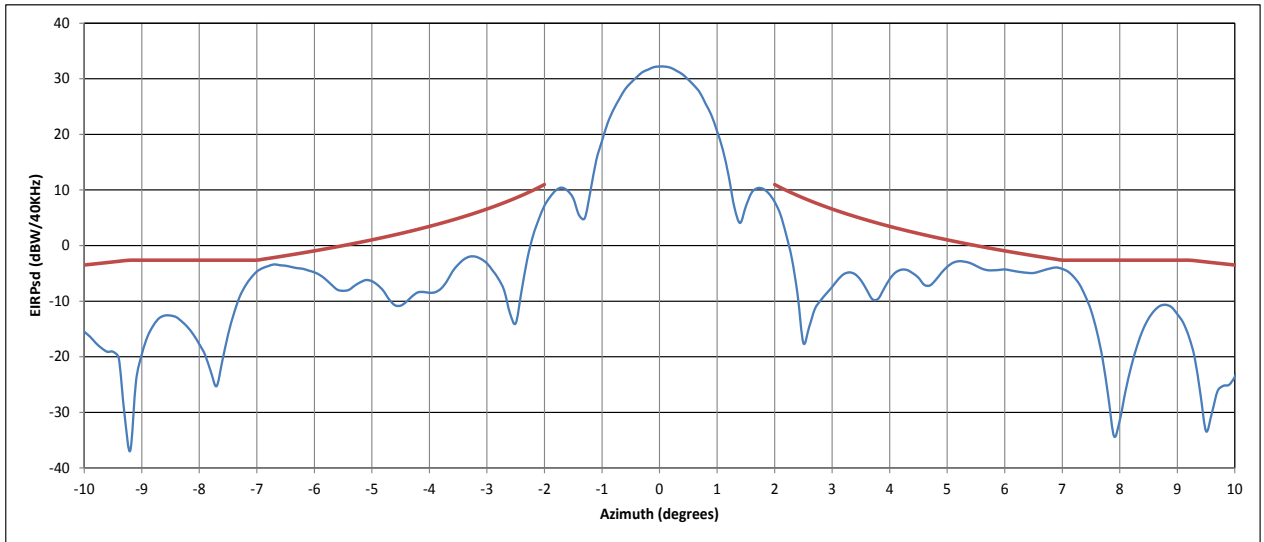


Figure 5 - Plot for 29.75 GHz

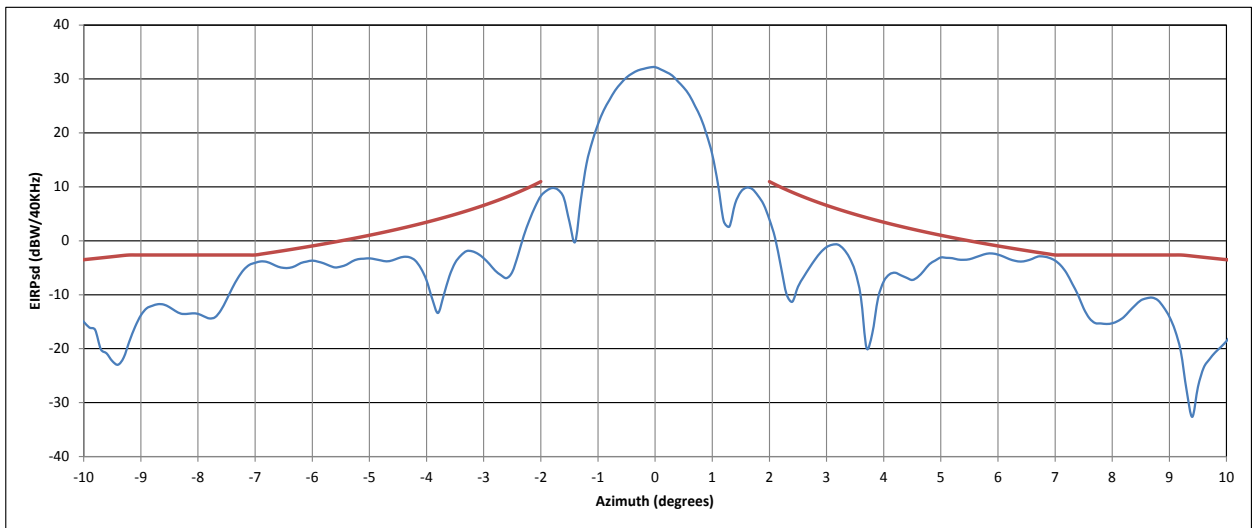
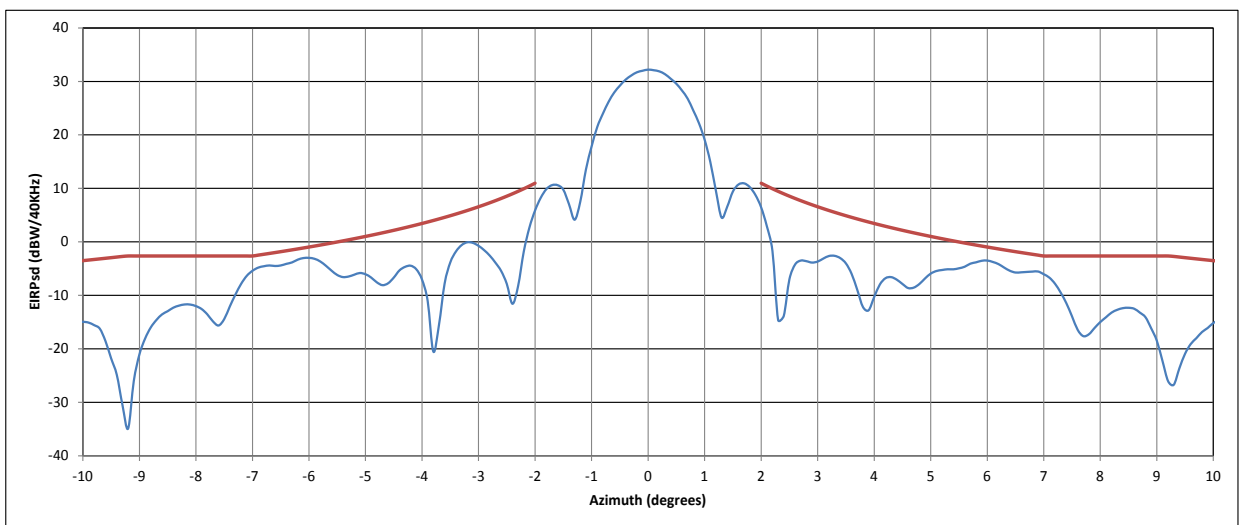


Figure 6 - Plot for 30.0 GHz



1.1.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 7 - Plot for 29.5 GHz

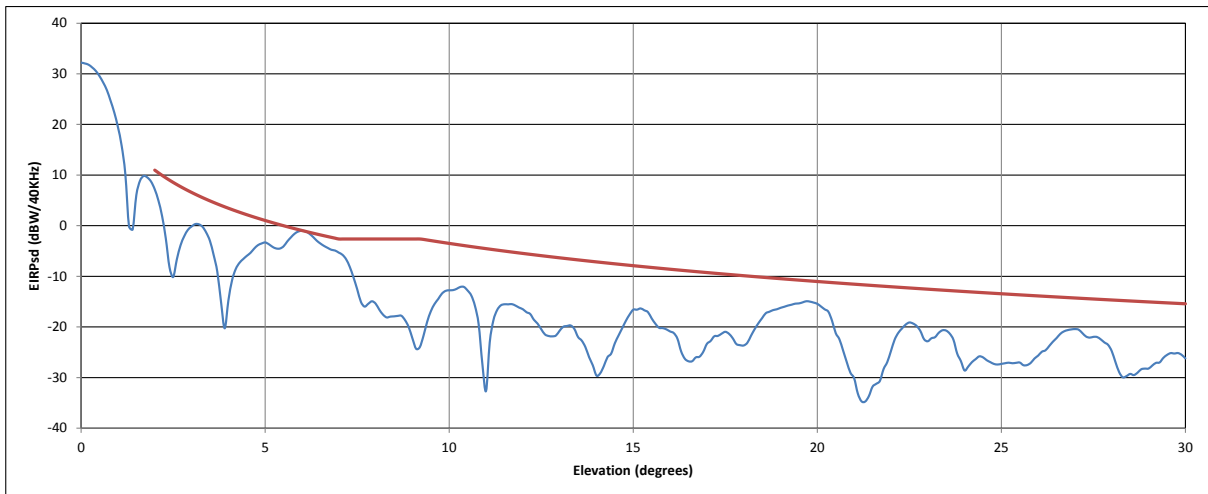


Figure 8 - Plot for 29.75 GHz

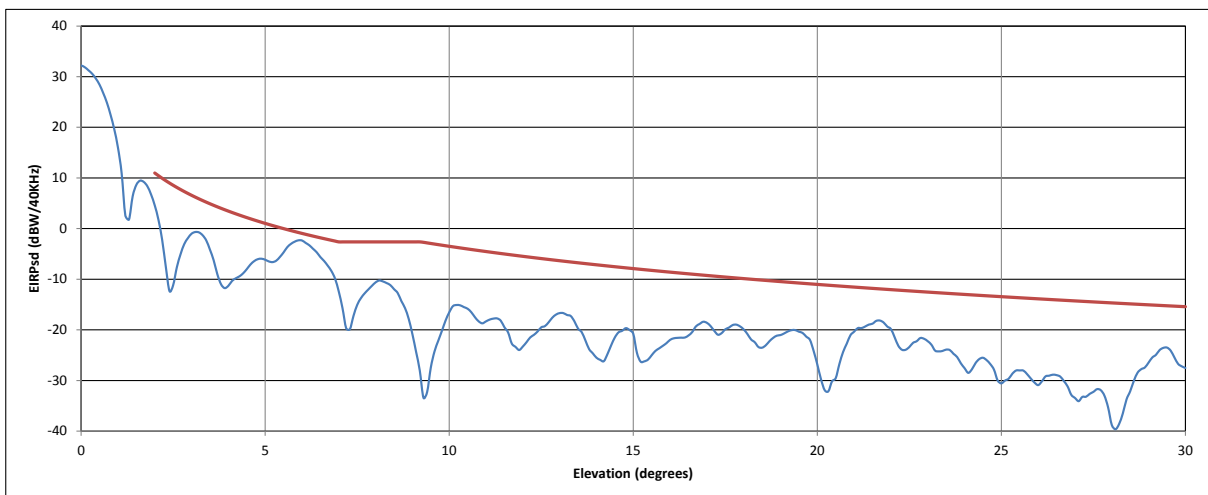
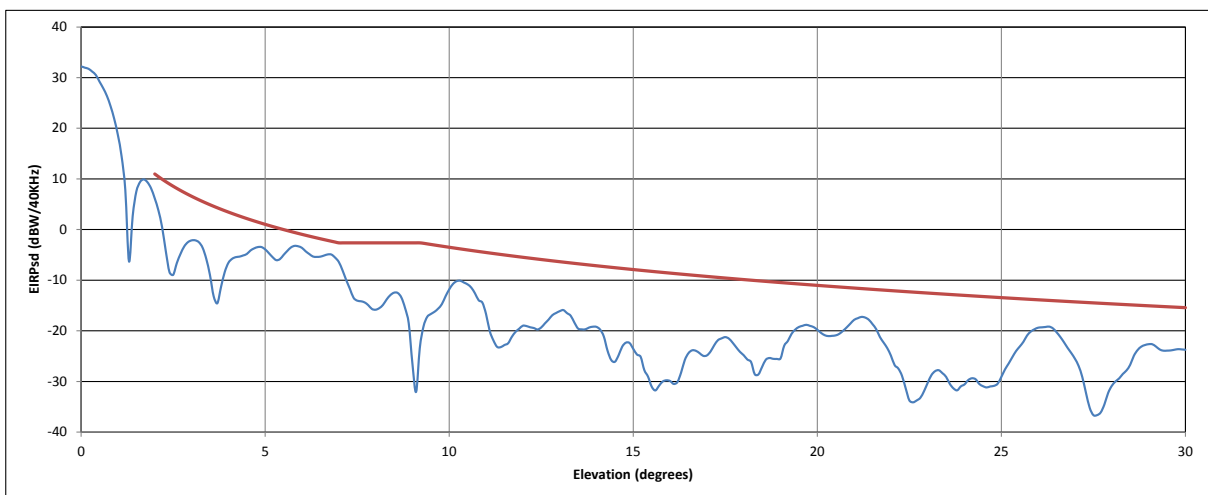


Figure 9 - Plot for 30.0 GHz



1.1.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 10 - Plot for 29.5 GHz

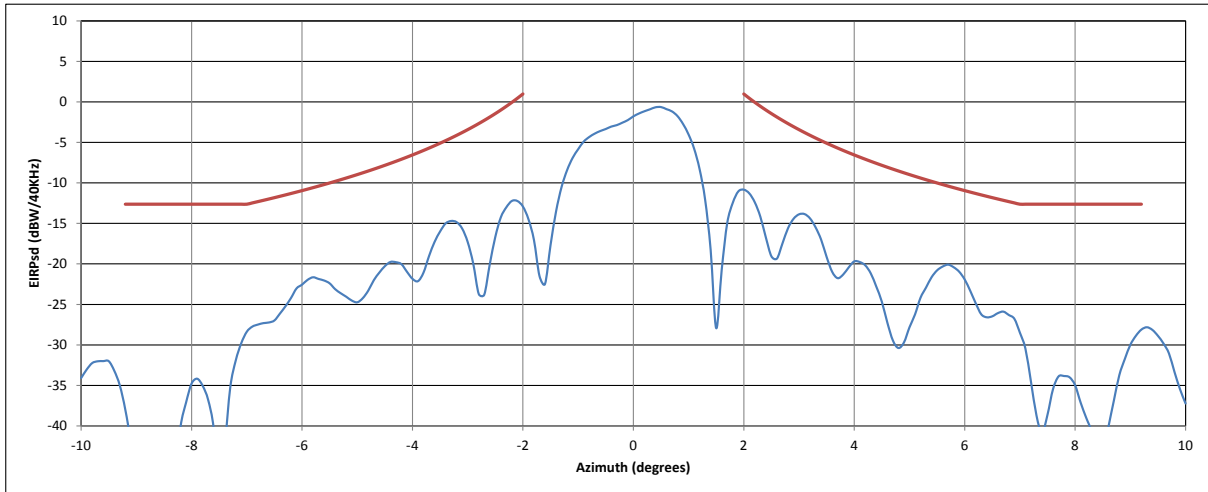


Figure 11 - Plot for 29.75 GHz

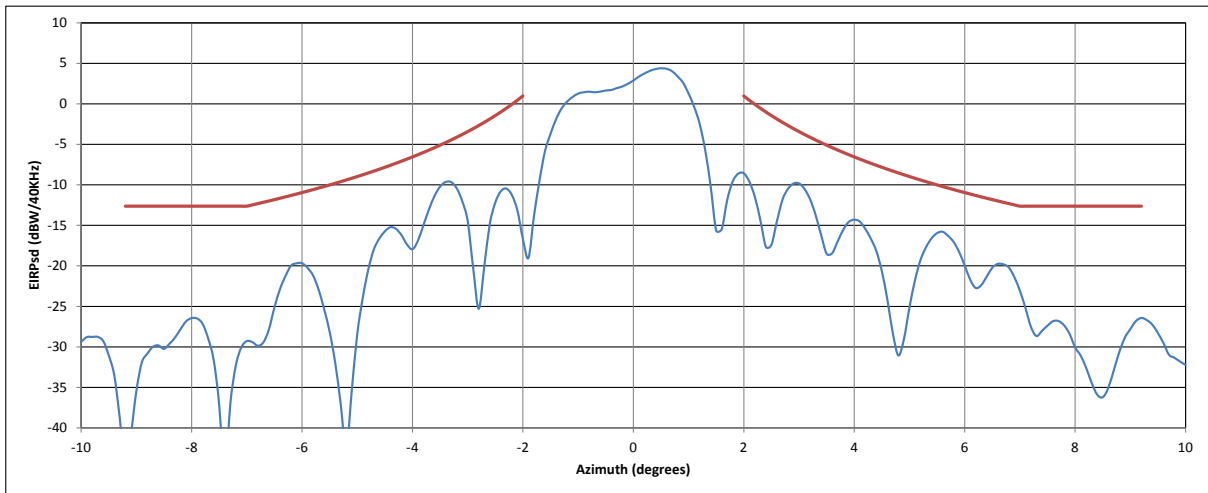
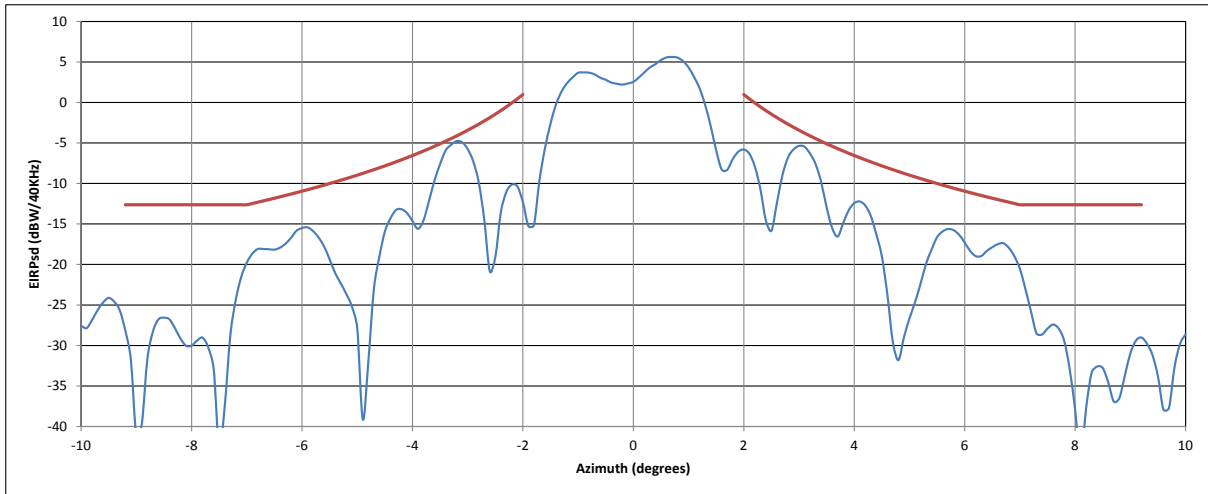


Figure 12 - Plot for 30.0 GHz



1.1.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 13 - Plot for 29.5 GHz

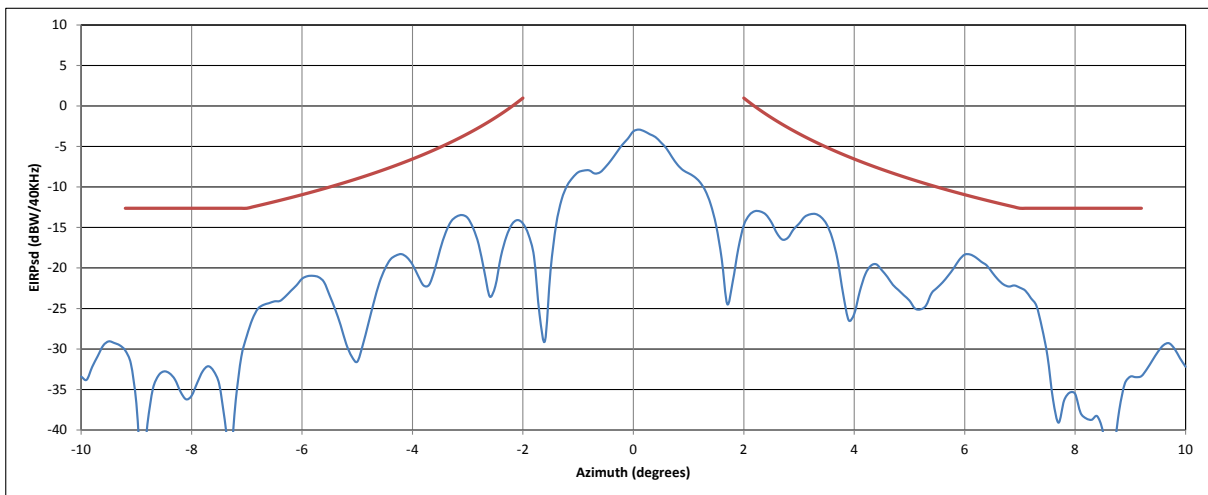


Figure 14 - Plot for 29.75 GHz

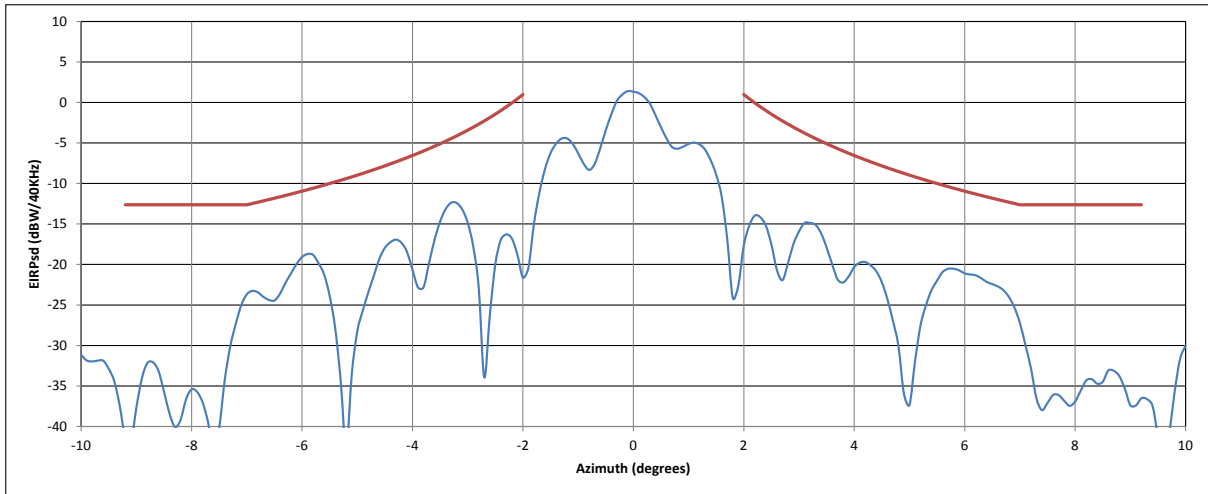
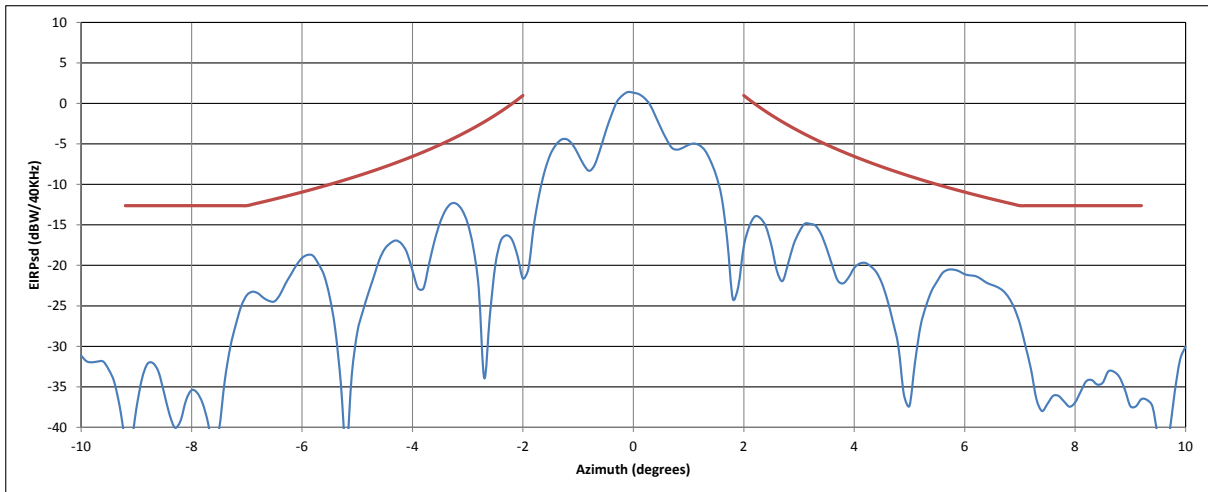


Figure 15 - Plot for 30.0 GHz



1.2 Receive plots (compliance with FCC §25.209)

1.2.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 16 - Plot for 19.7 GHz

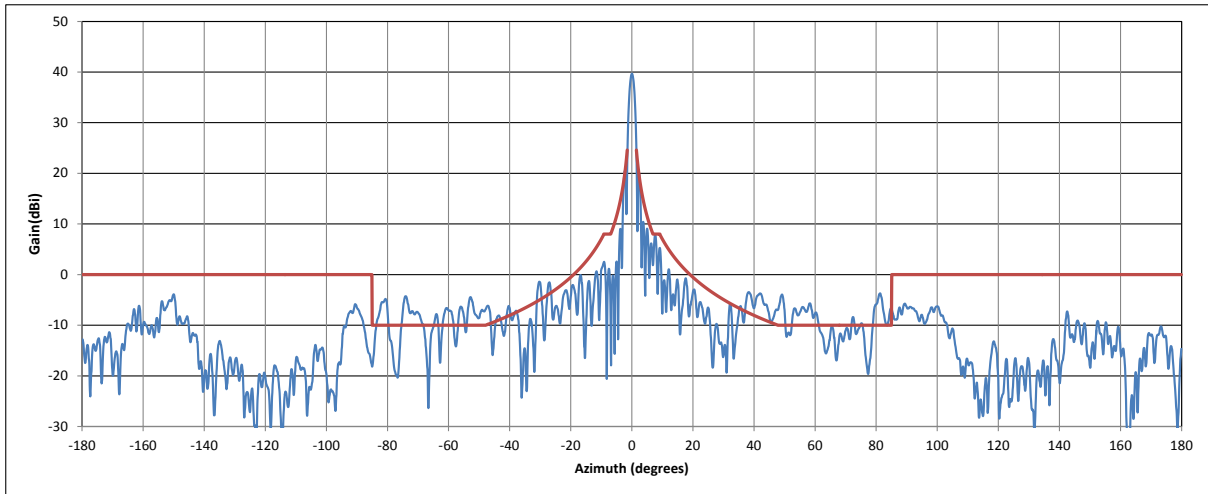


Figure 17 - Plot for 19.95 GHz

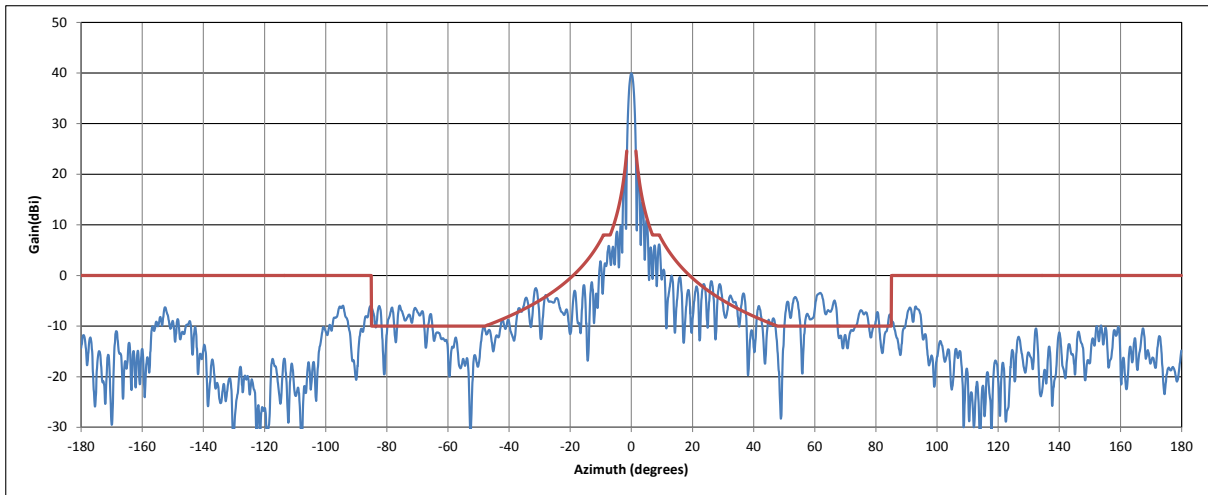
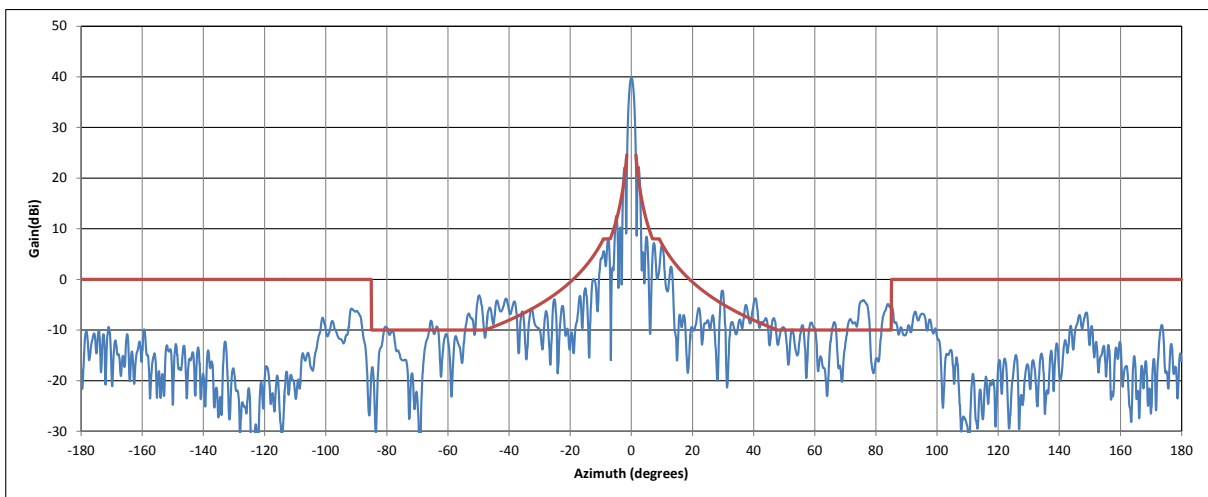


Figure 18 - Plot for 20.2 GHz



1.2.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 19 - Plot for 19.7 GHz

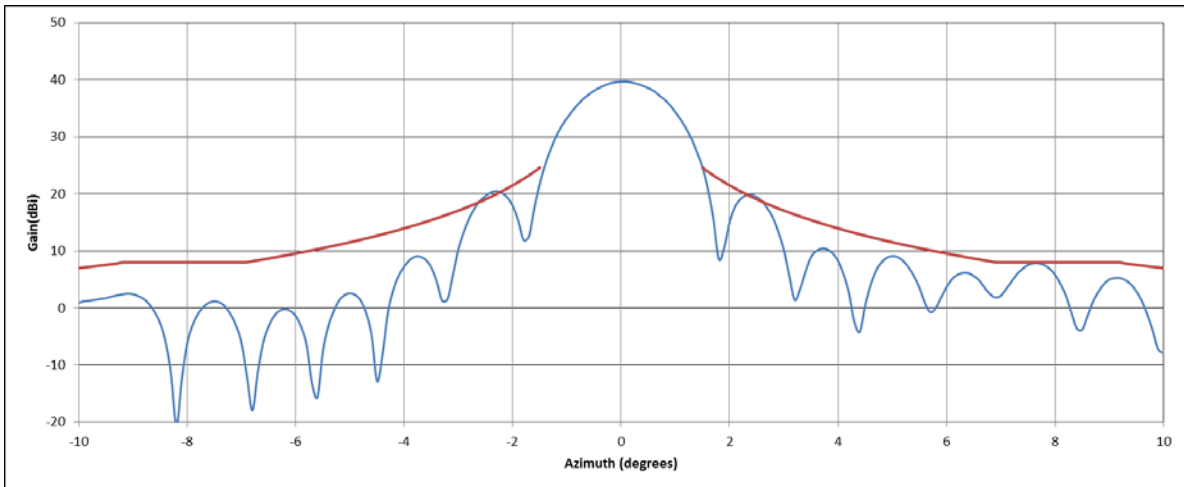


Figure 20 - Plot for 19.95 GHz

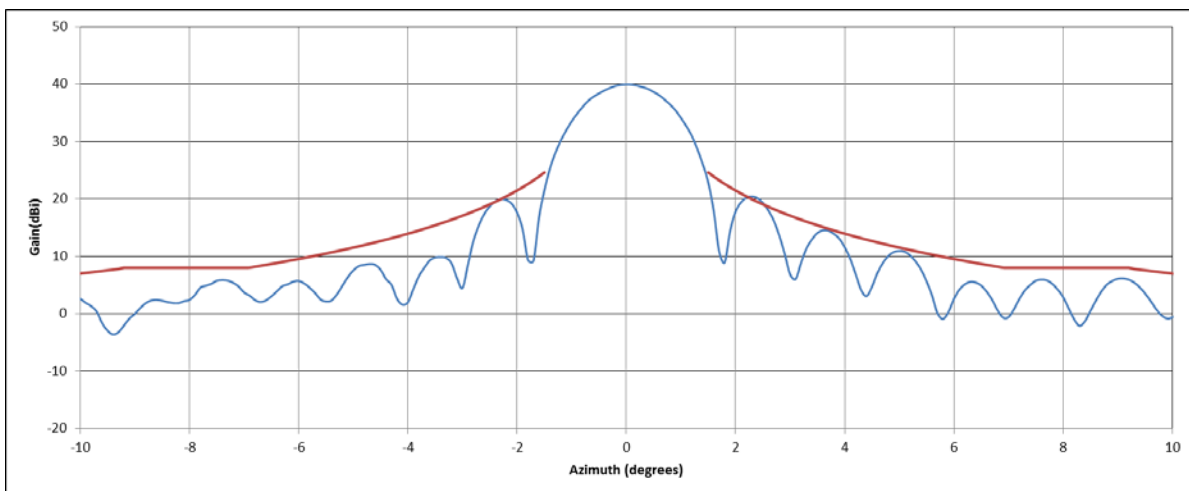
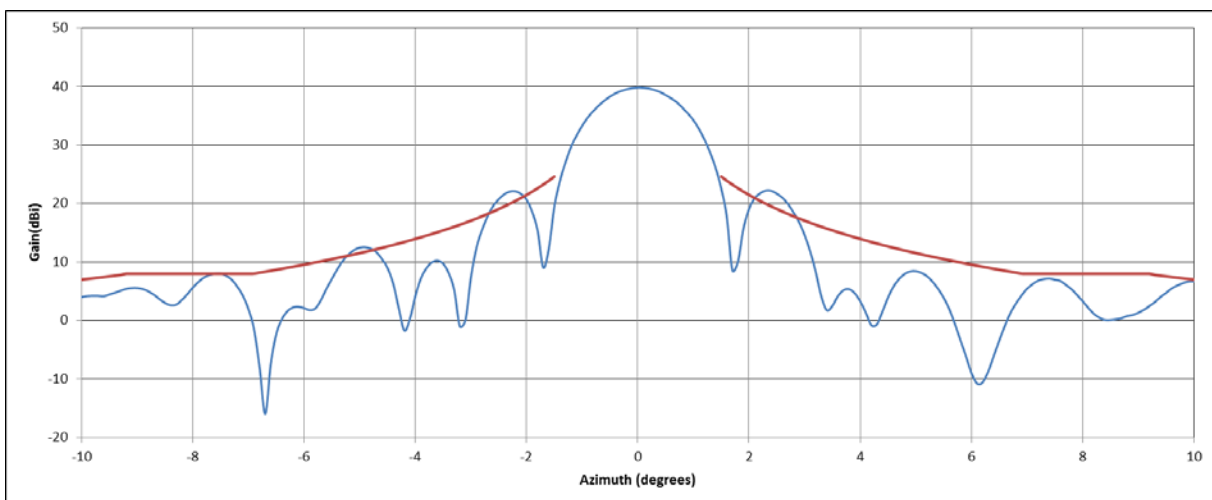


Figure 21 - Plot for 20.2 GHz



1.2.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 22 - Plot for 19.7 GHz

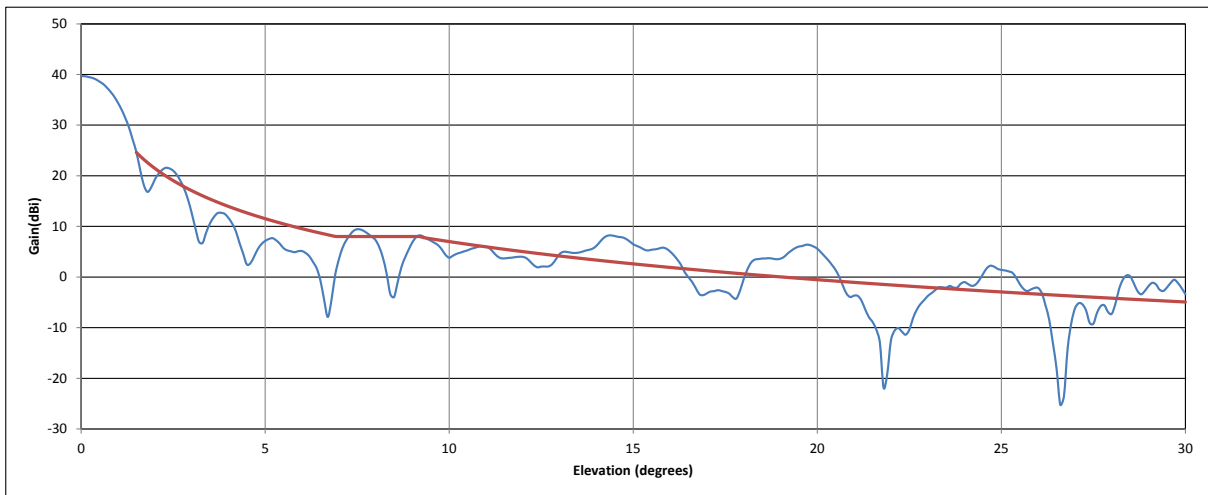


Figure 23 - Plot for 19.95 GHz

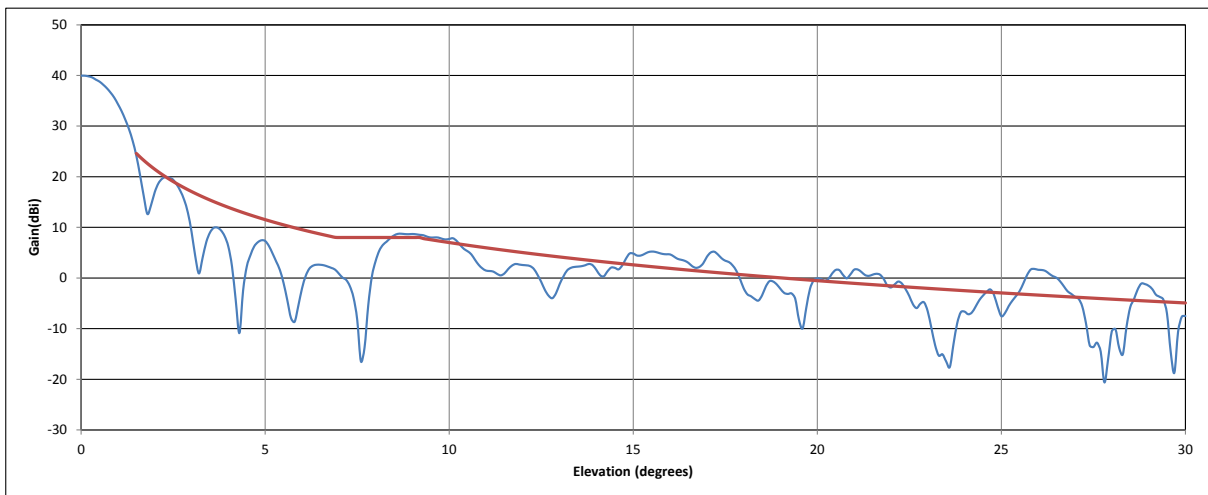
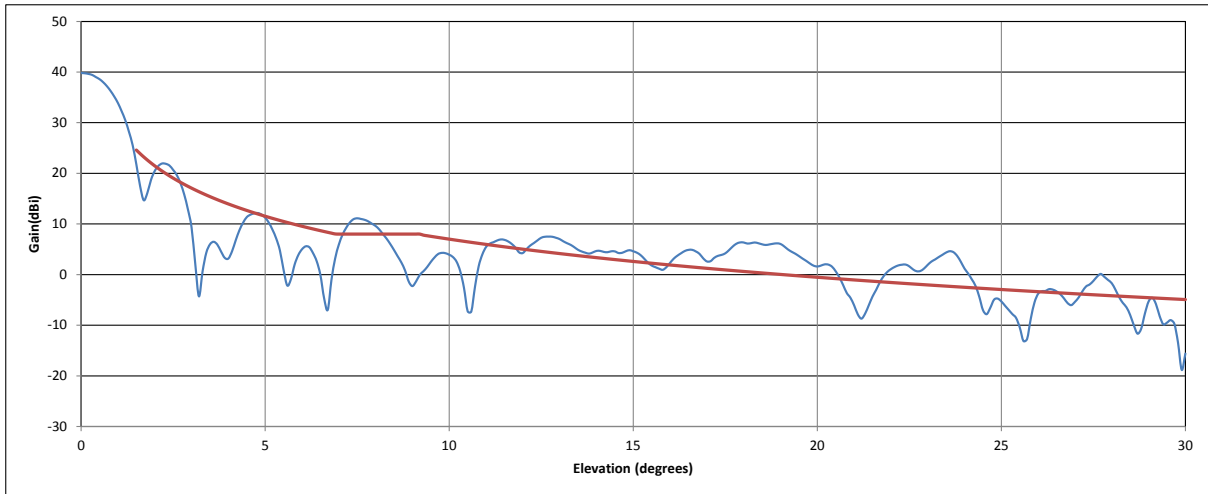


Figure 24 - Plot for 20.2 GHz



1.2.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 25 - Plot for 19.7 GHz

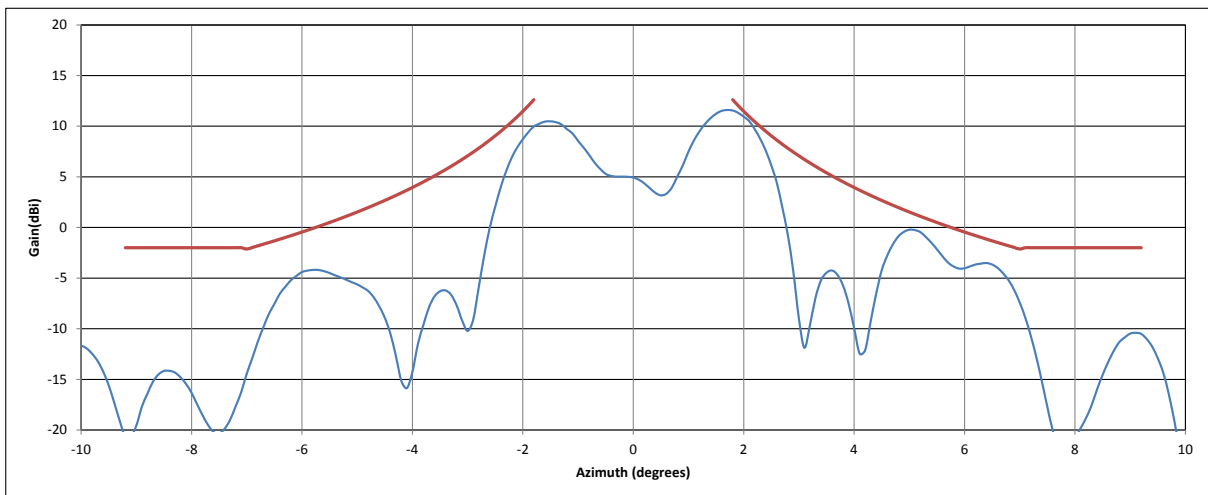


Figure 26 - Plot for 19.95 GHz

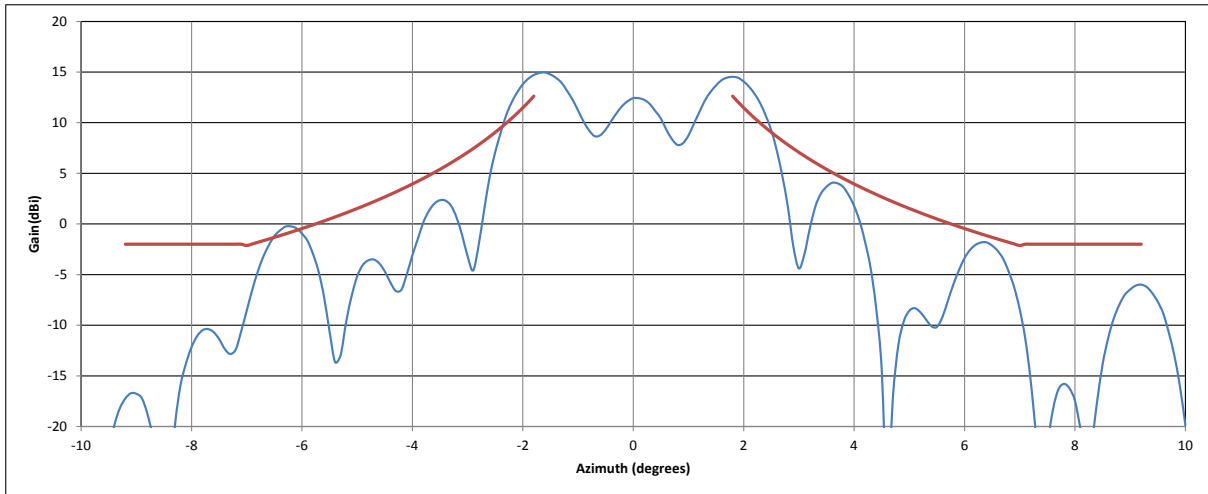
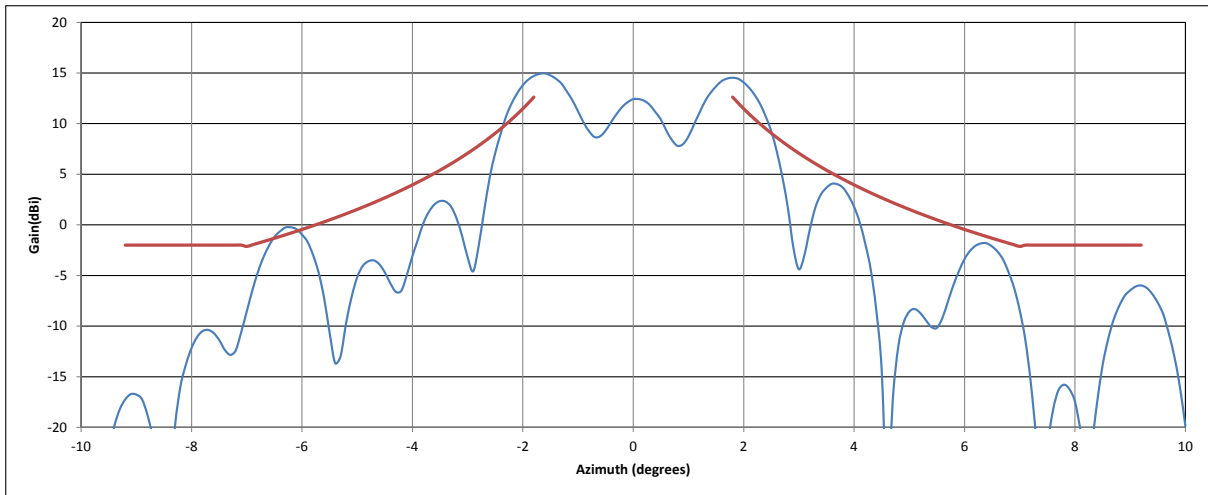


Figure 27 - Plot for 20.2 GHz



1.2.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 28 - Plot for 19.7 GHz

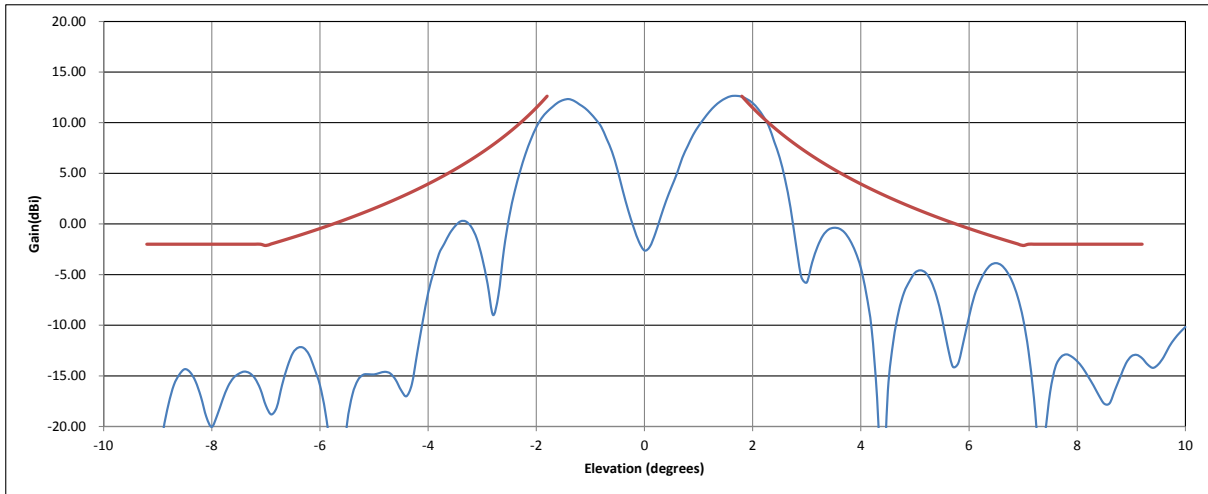


Figure 29 - Plot for 19.95 GHz

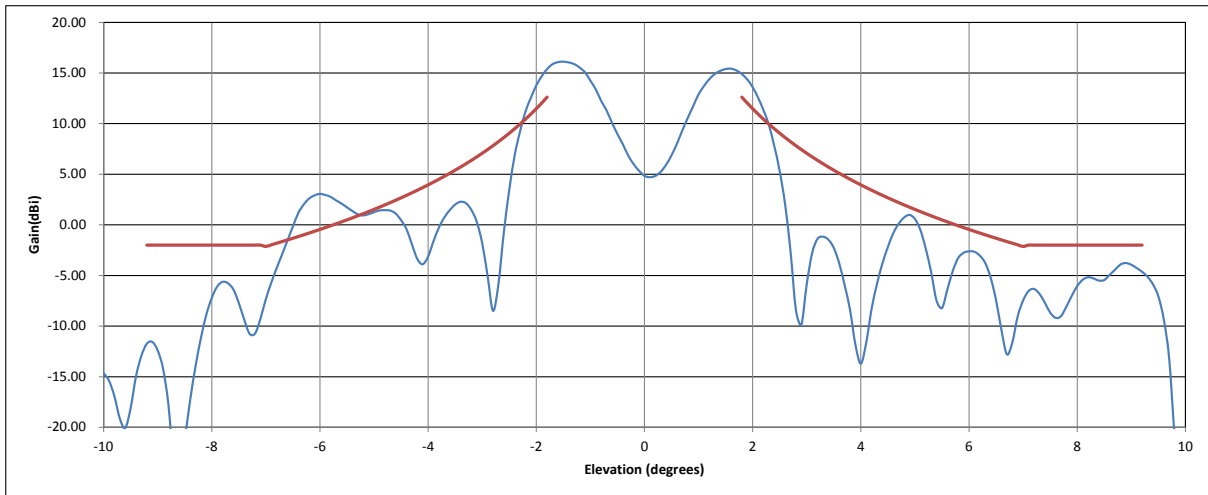
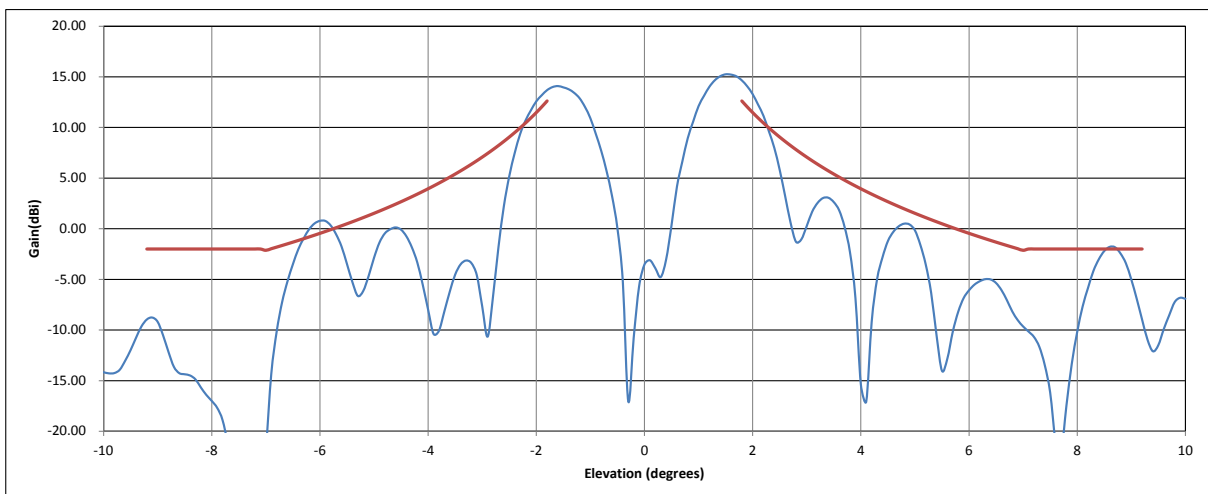


Figure 30 - Plot for 20.2 GHz



**ISAT US Inc.
FCC Form 312
Exhibit B**

Plots for Cobham SeaTel terminal model Sailor 100 GX

The following attachment contains all the plots requested for showing the compliance of the Cobham SeaTel terminal model Sailor 100 GX with the requirements established by FCC §25.138 and §25.209. The plots refer to the frequencies listed in Table 1 below.

Table 1 - Measurement points for plots

Tx frequencies (§25.138)	29.5 GHz	29.75 GHz	30.0 GHz
Rx frequencies (§25.209)	19.7 GHz	19.95 GHz	20.2 GHz

Each plot is compared with the relevant mask derived from the FCC references above.

1. Plots for terminal type Sailor 100 GX

1.1 Transmit plots (compliance with FCC §25.138)

1.1.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 1 - Plot for 29.5 GHz

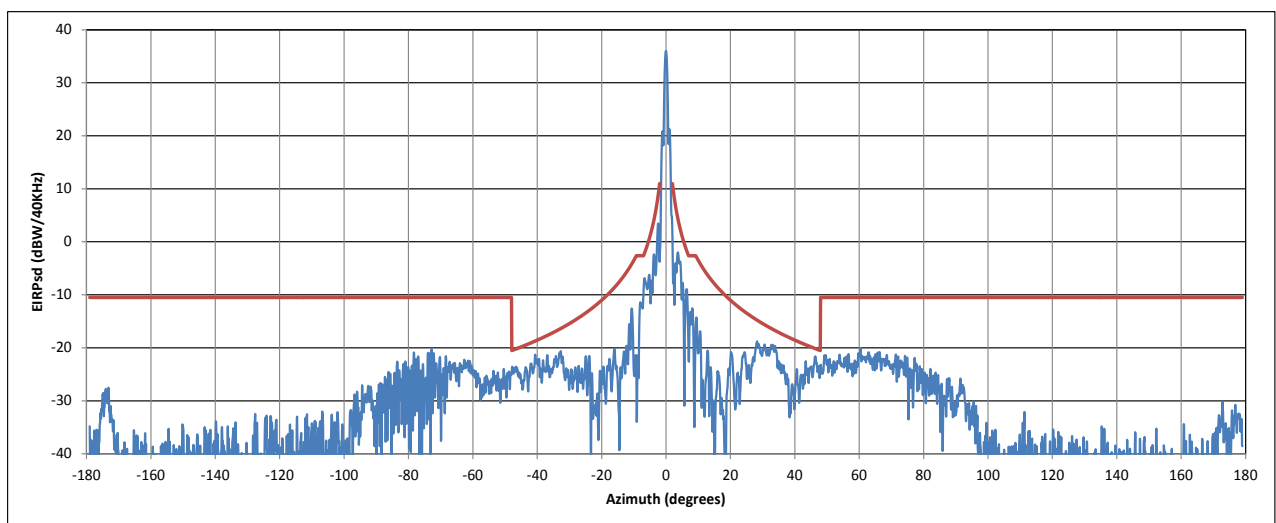


Figure 2 - Plot for 29.75 GHz

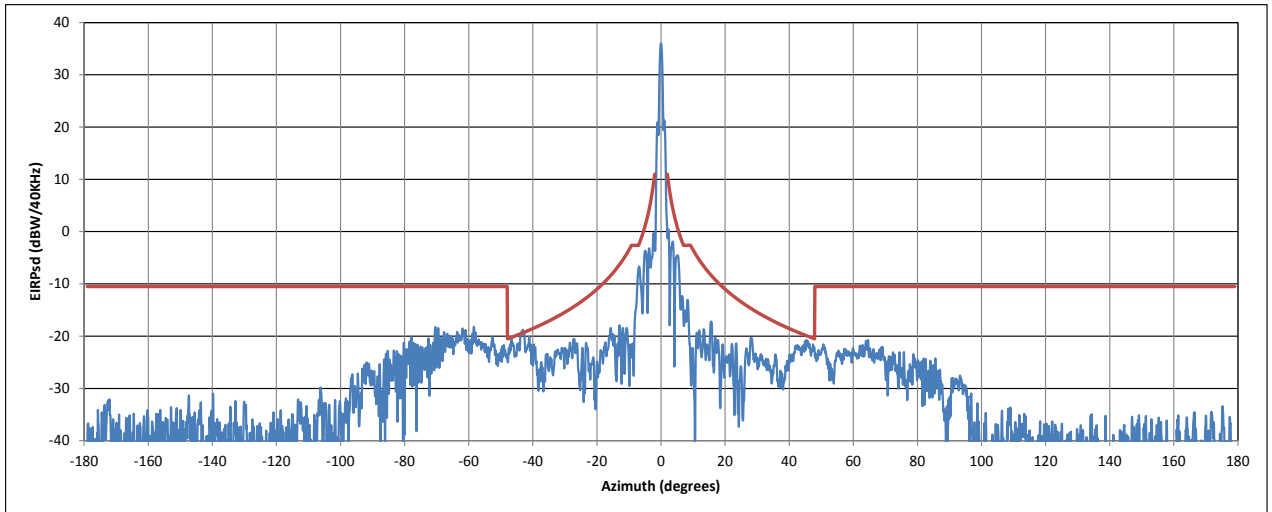
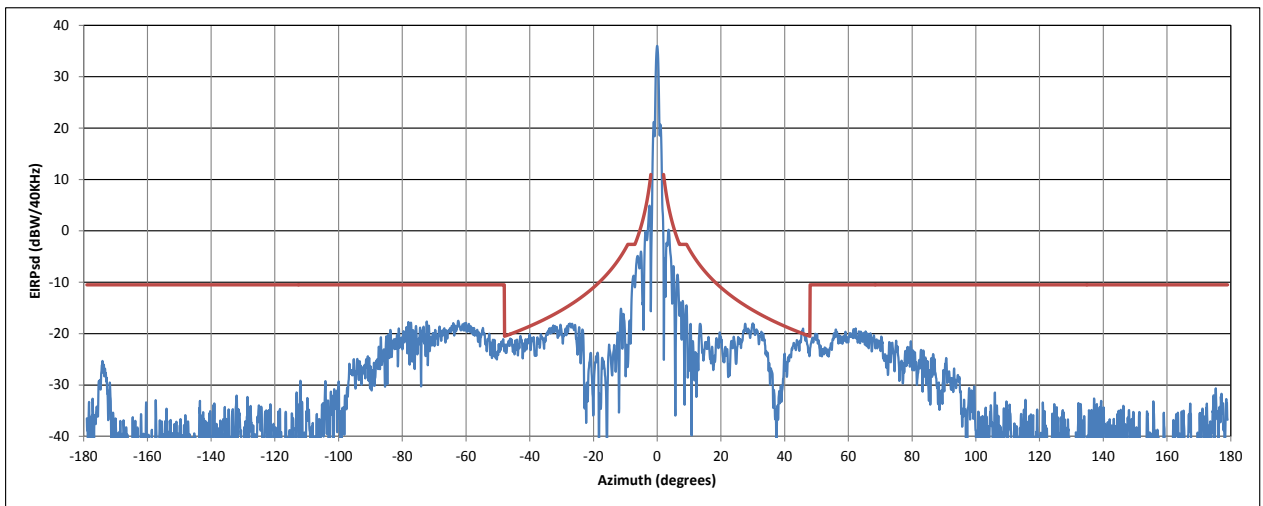


Figure 3 - Plot for 30.0 GHz



1.1.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 4 - Plot for 29.5 GHz

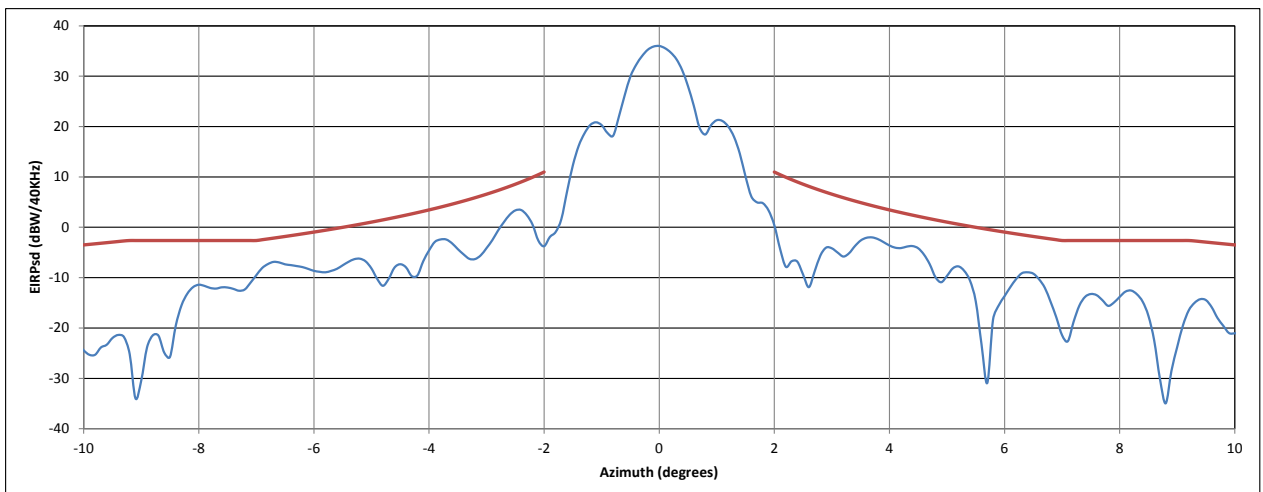


Figure 5 - Plot for 29.75 GHz

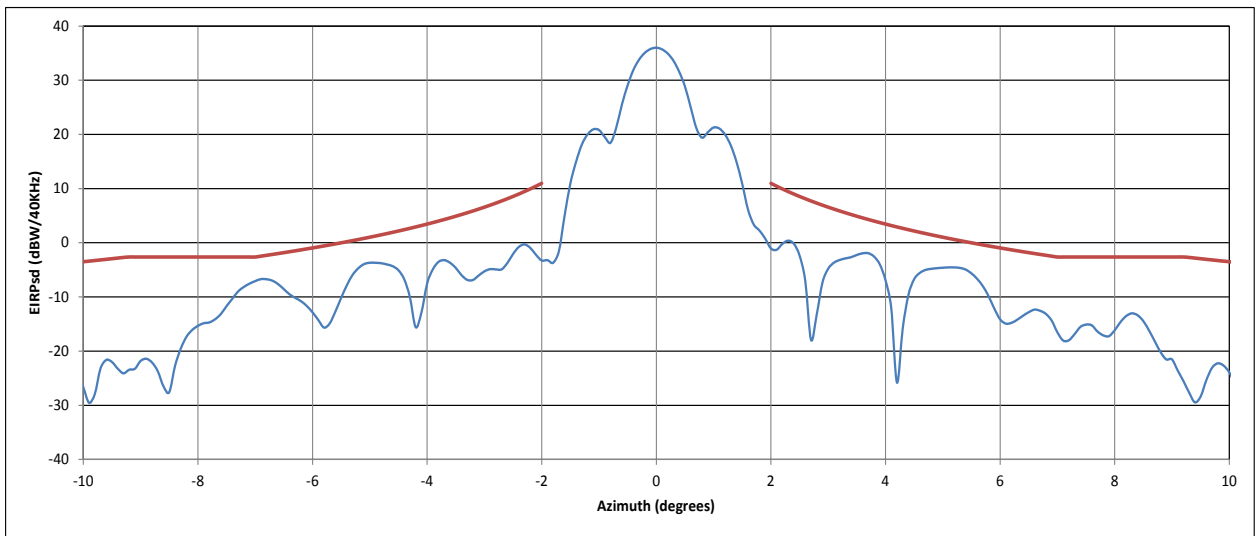
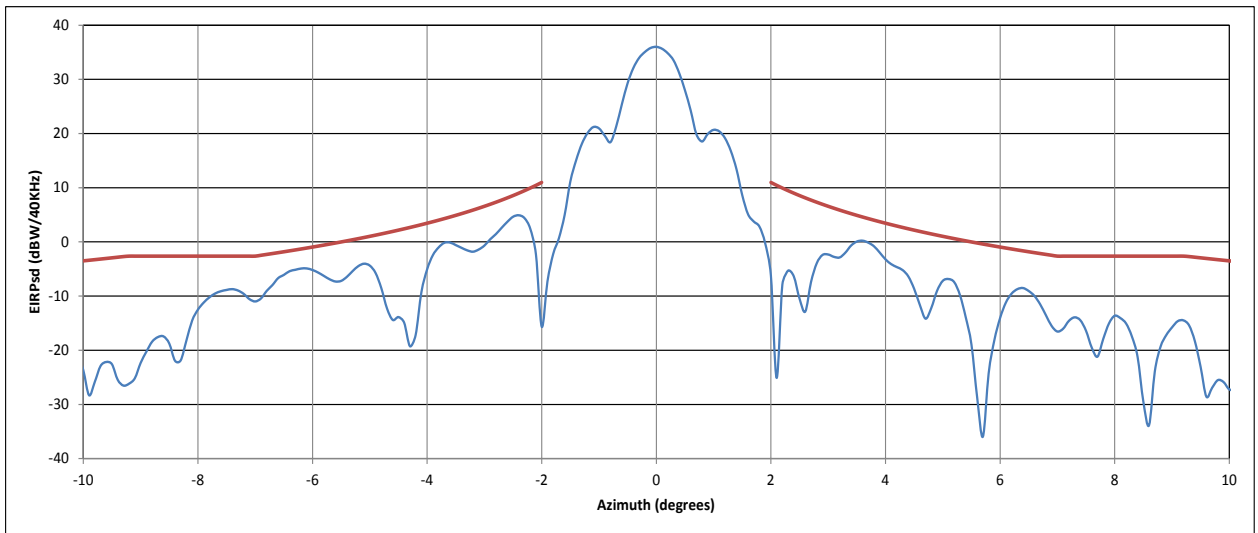


Figure 6 - Plot for 30.0 GHz



1.1.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 7 - Plot for 29.5 GHz

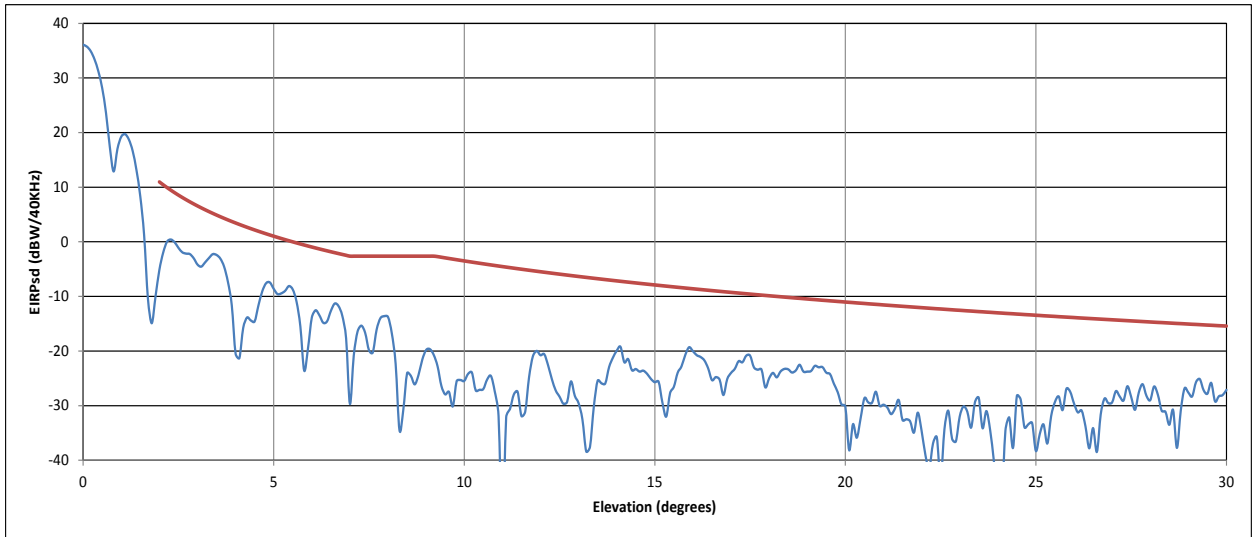


Figure 8 - Plot for 29.75 GHz

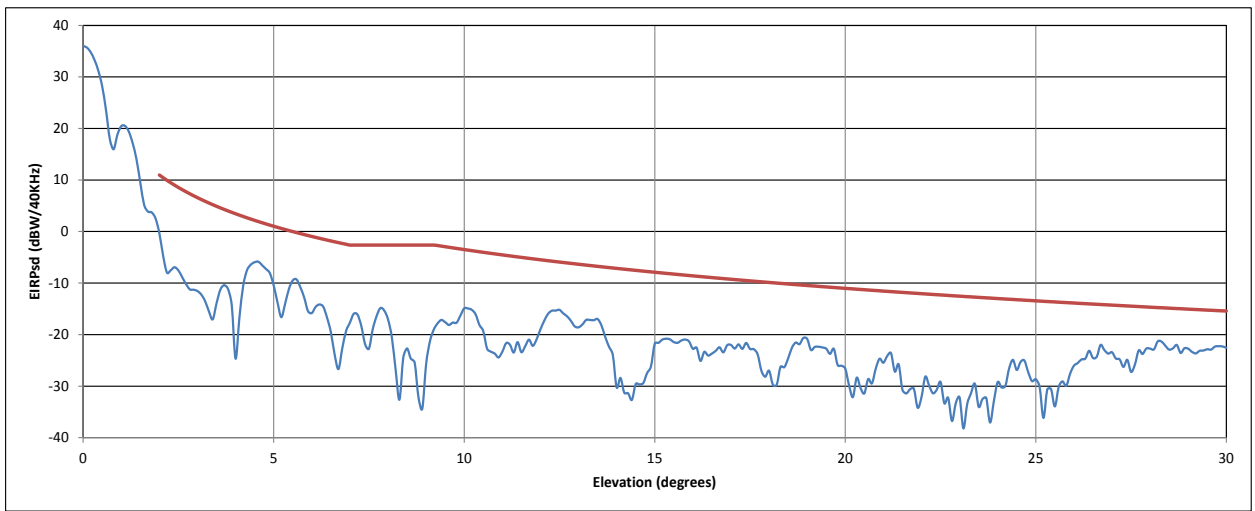
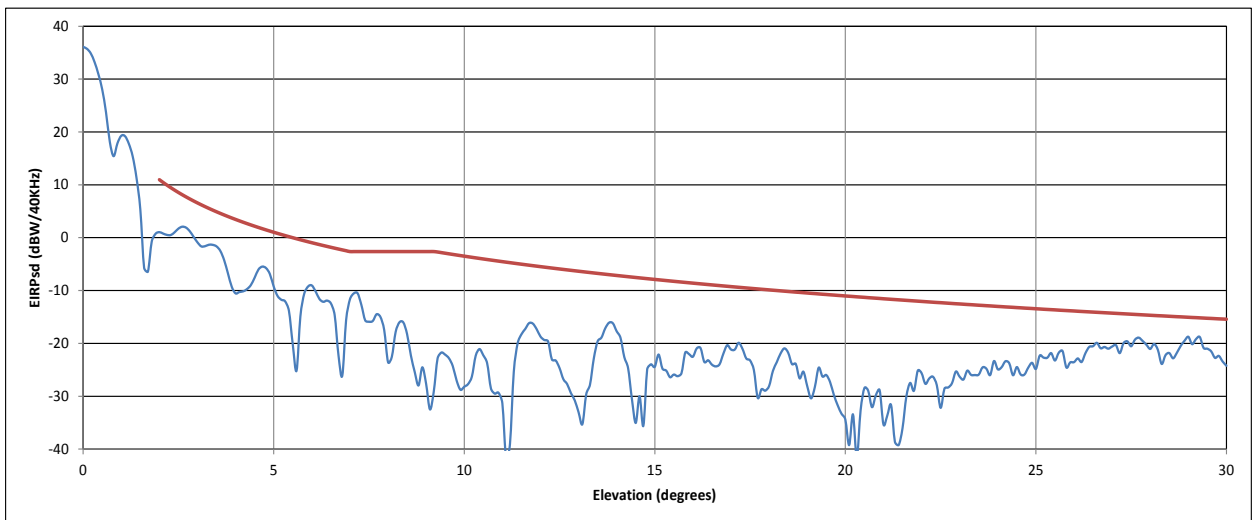


Figure 9 - Plot for 30.0 GHz



1.1.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 10 - Plot for 29.5 GHz

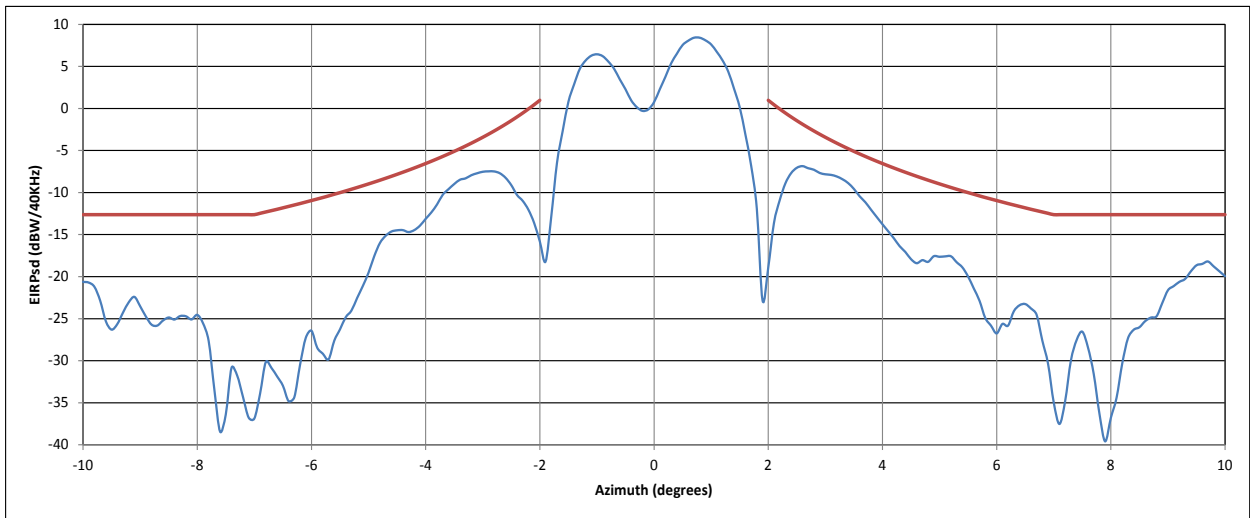


Figure 11 - Plot for 29.75 GHz

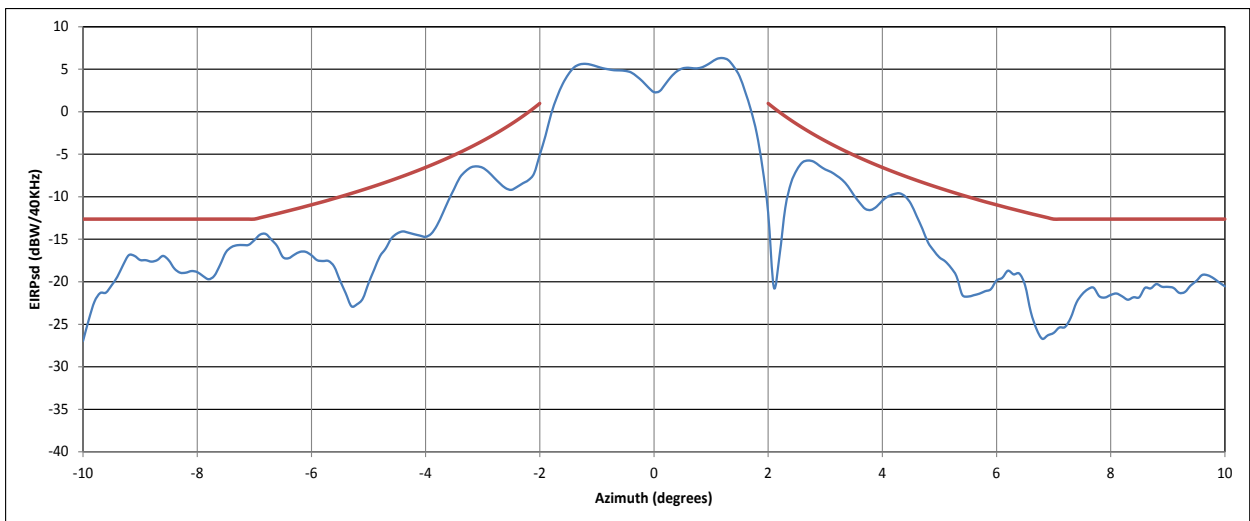
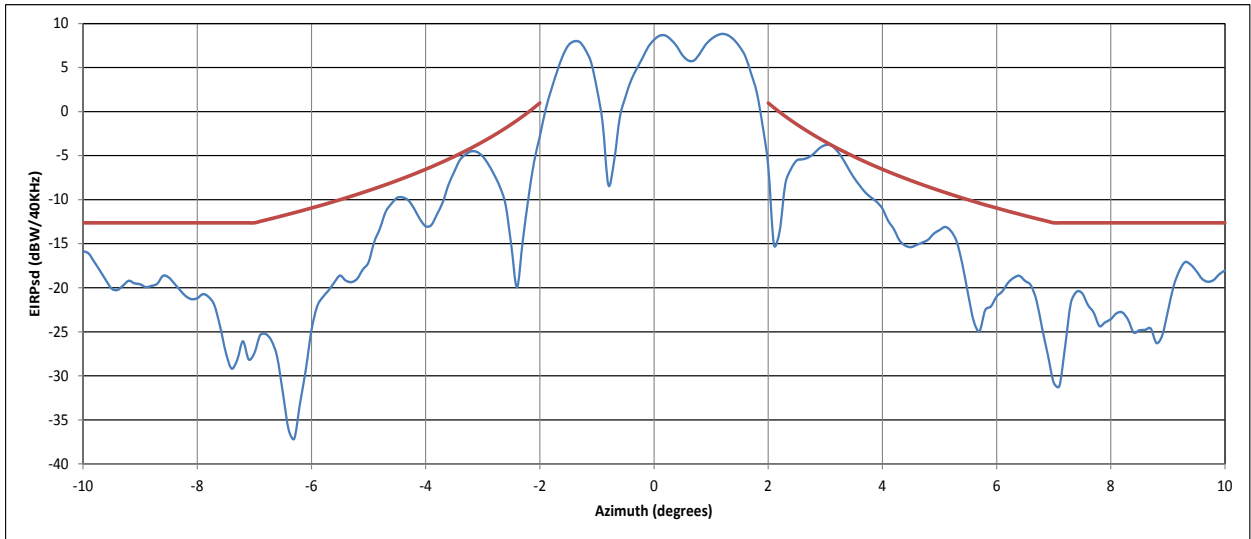


Figure 12 - Plot for 30.0 GHz



1.1.5 Plots for Elevation X-Pol (Range: {0 : 10} deg)

Figure 13 - Plot for 29.5 GHz

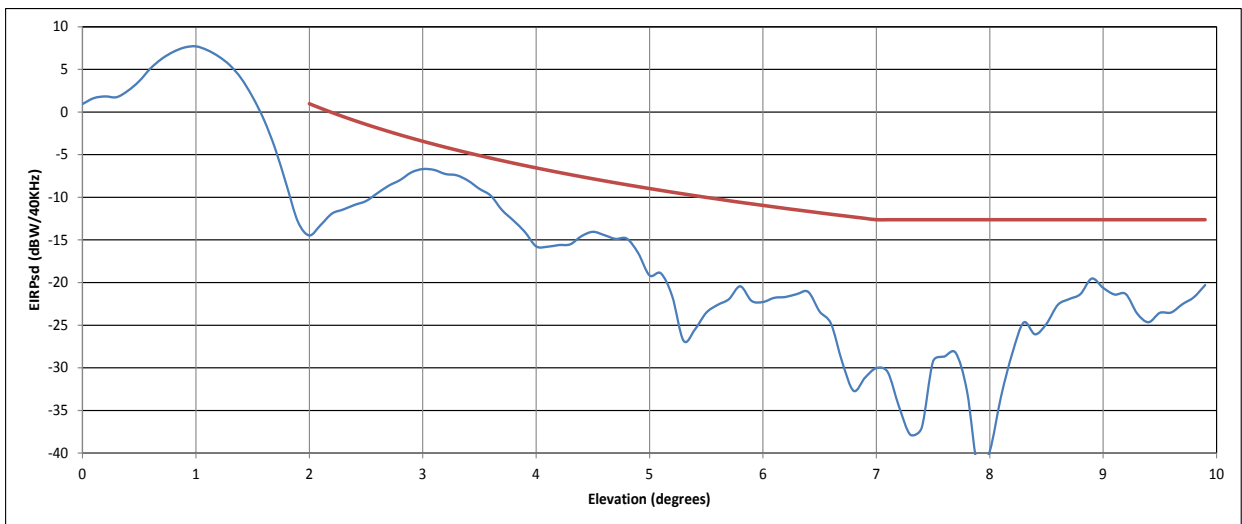


Figure 14 - Plot for 29.75 GHz

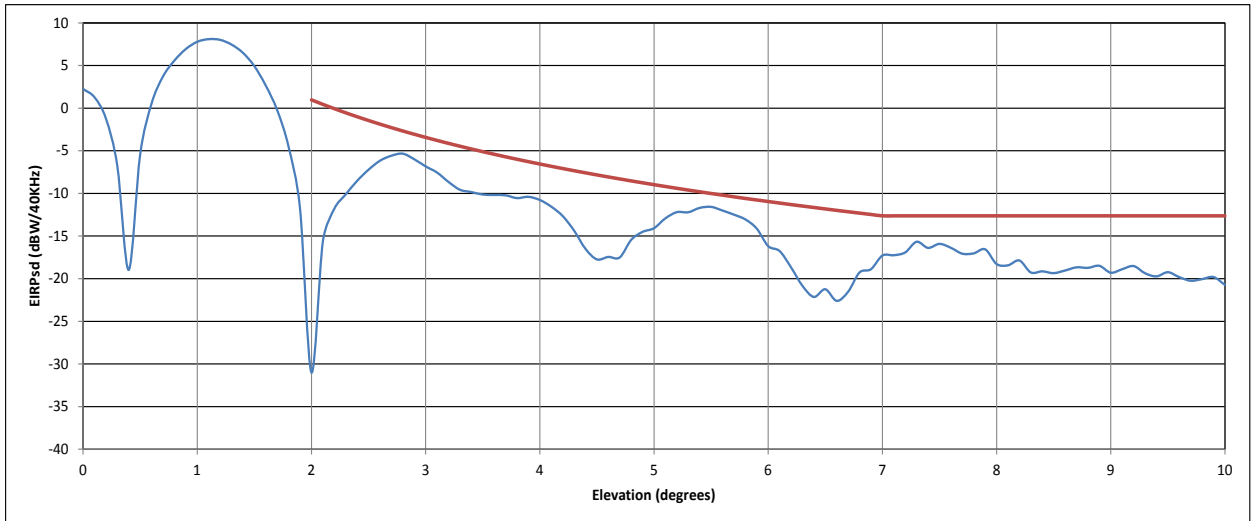
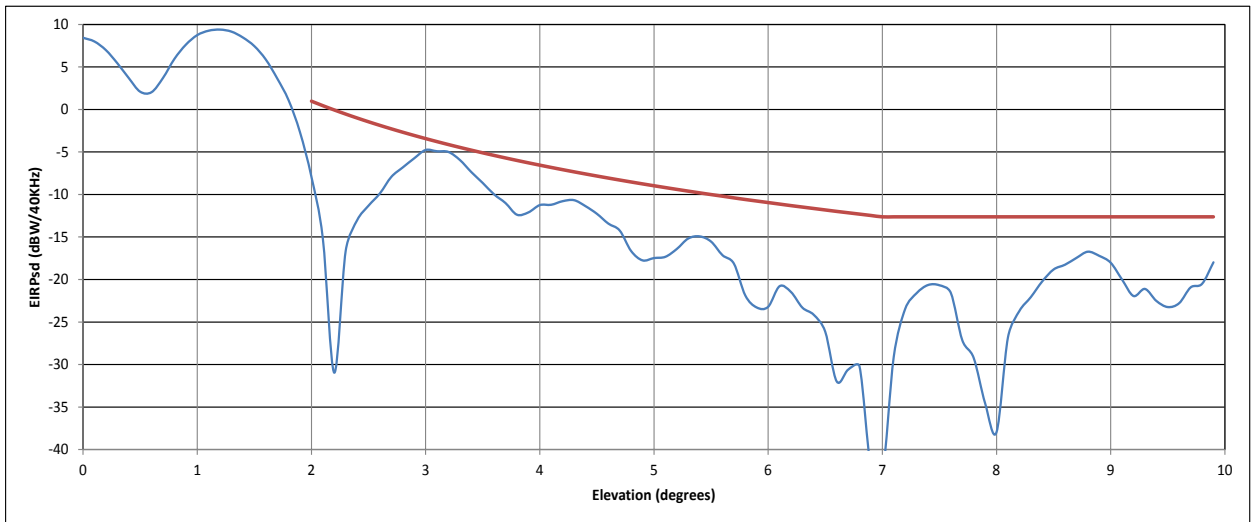


Figure 15 - Plot for 30.0 GHz



1.2 Receive plots (compliance with FCC §25.209)

1.2.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 16 - Plot for 19.7 GHz

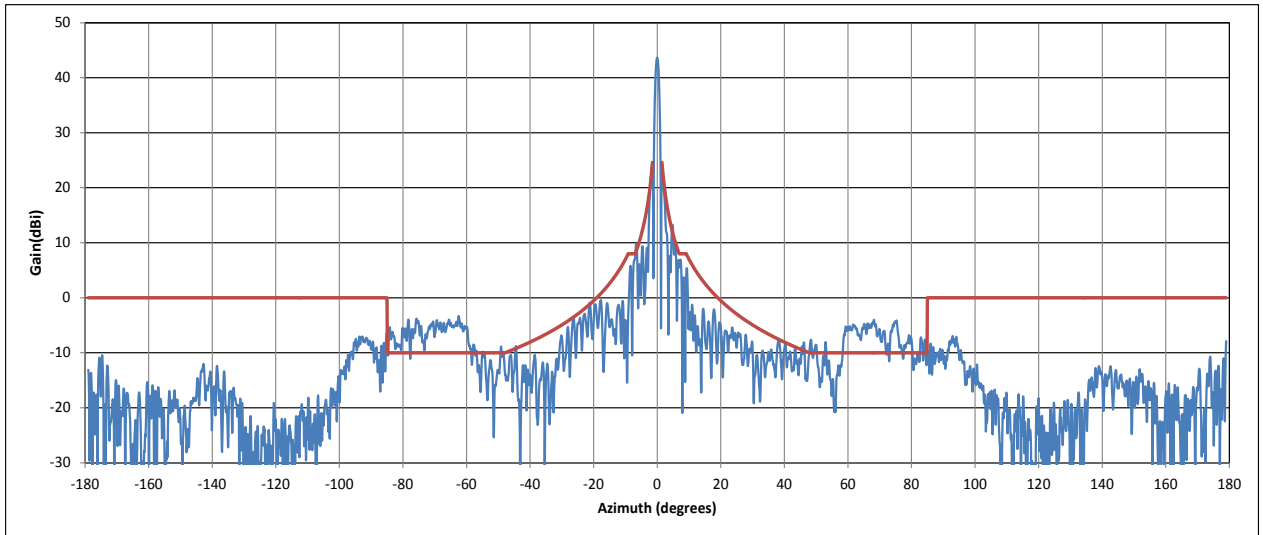


Figure 17 - Plot for 19.95 GHz

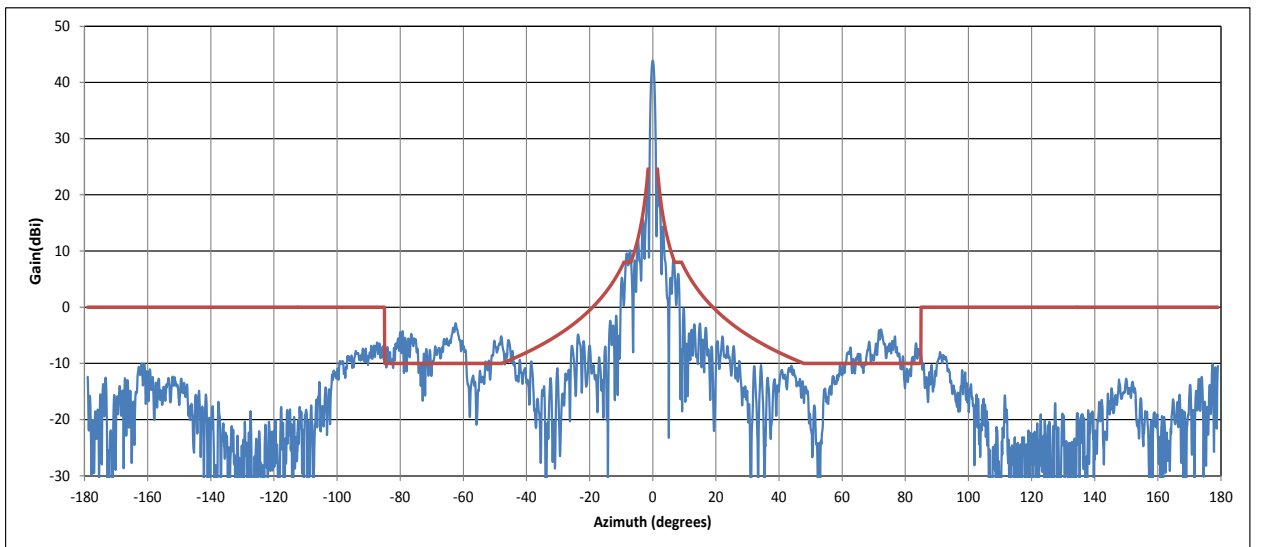
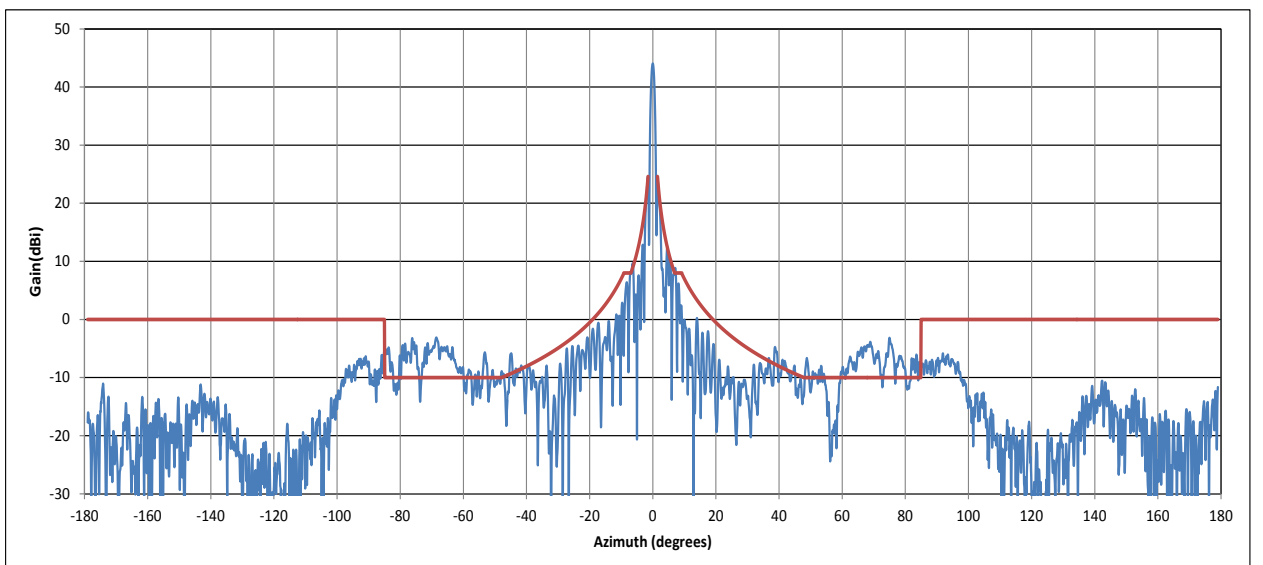


Figure 18 - Plot for 20.2 GHz



1.2.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 19 - Plot for 19.7 GHz

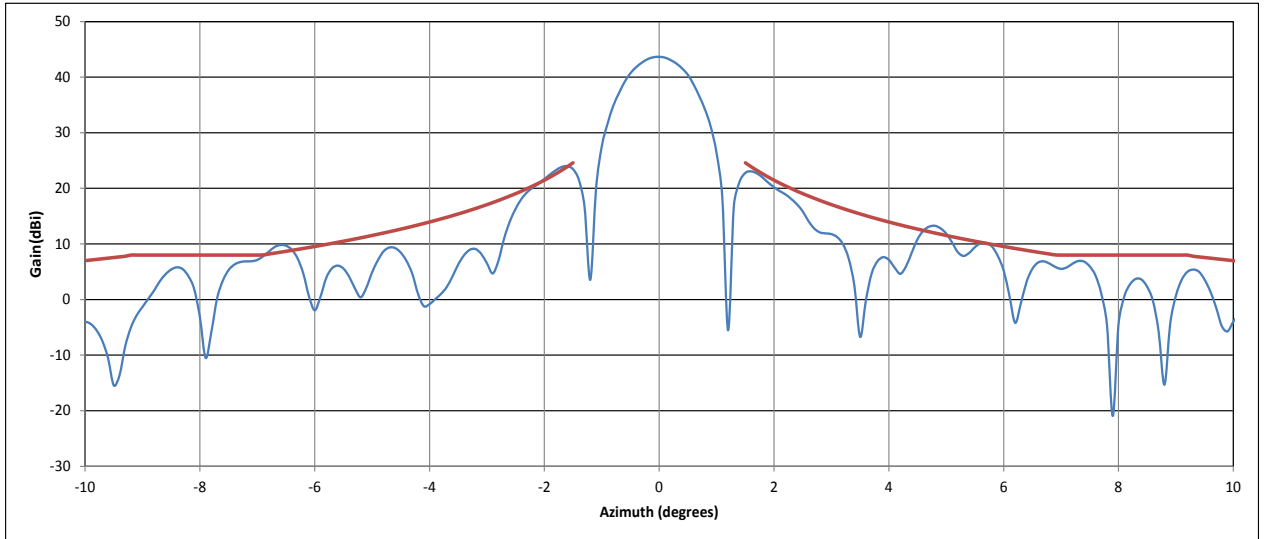


Figure 20 - Plot for 19.95 GHz

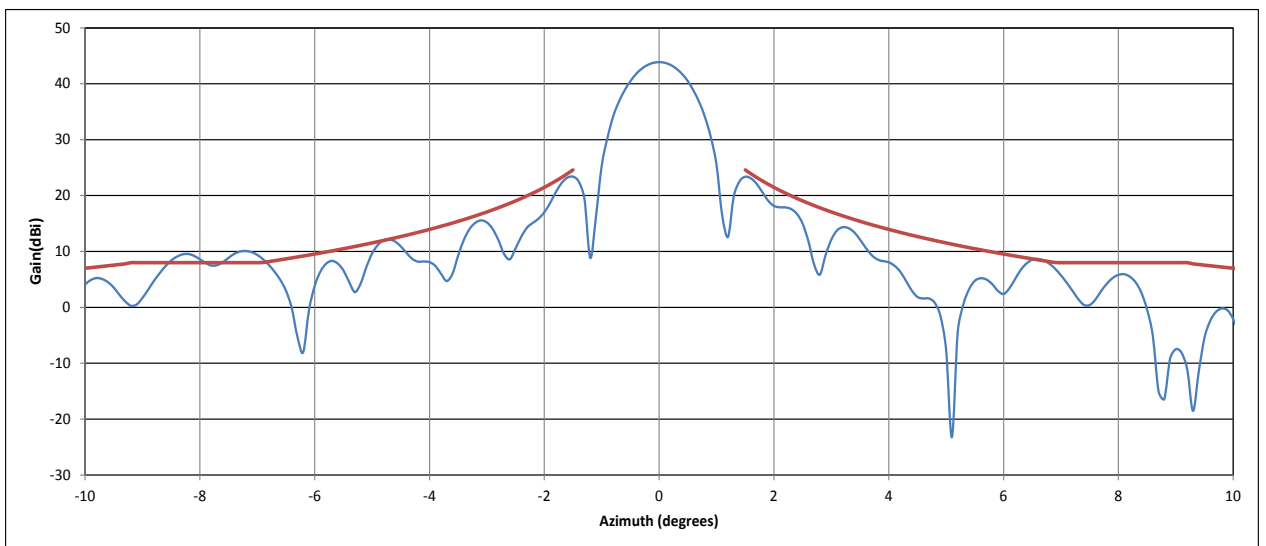
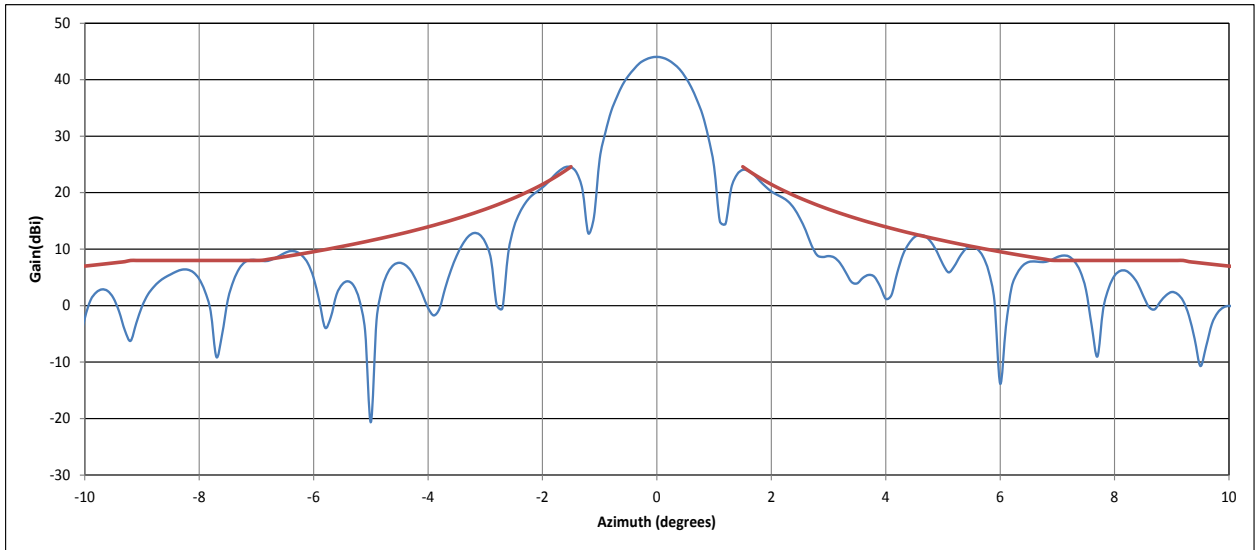


Figure 21 - Plot for 20.2 GHz



1.2.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 22 - Plot for 19.7 GHz

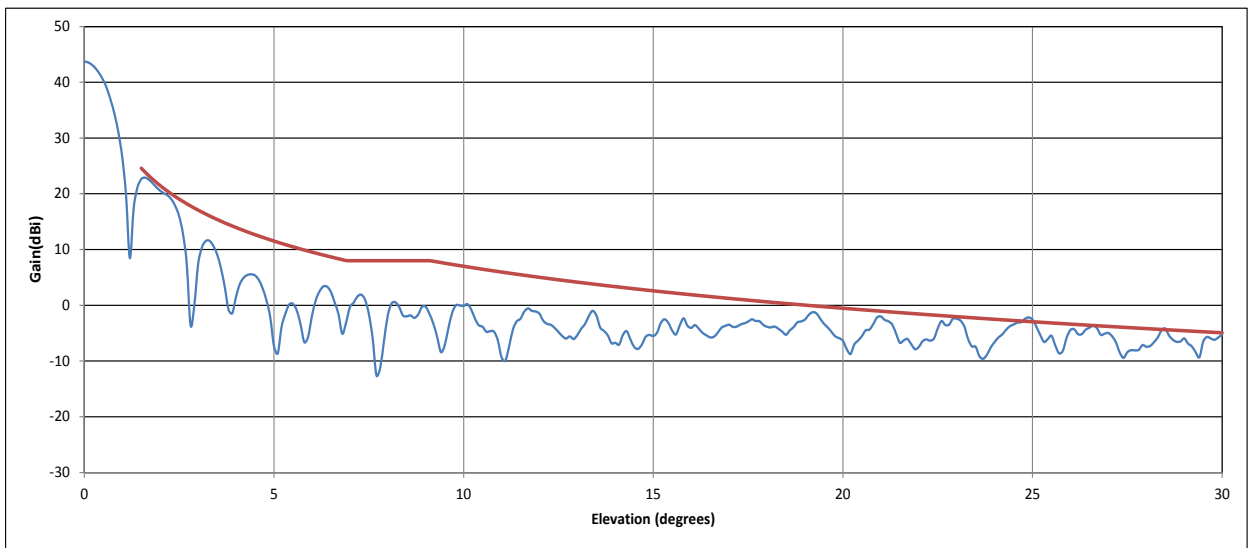


Figure 23 - Plot for 19.95 GHz

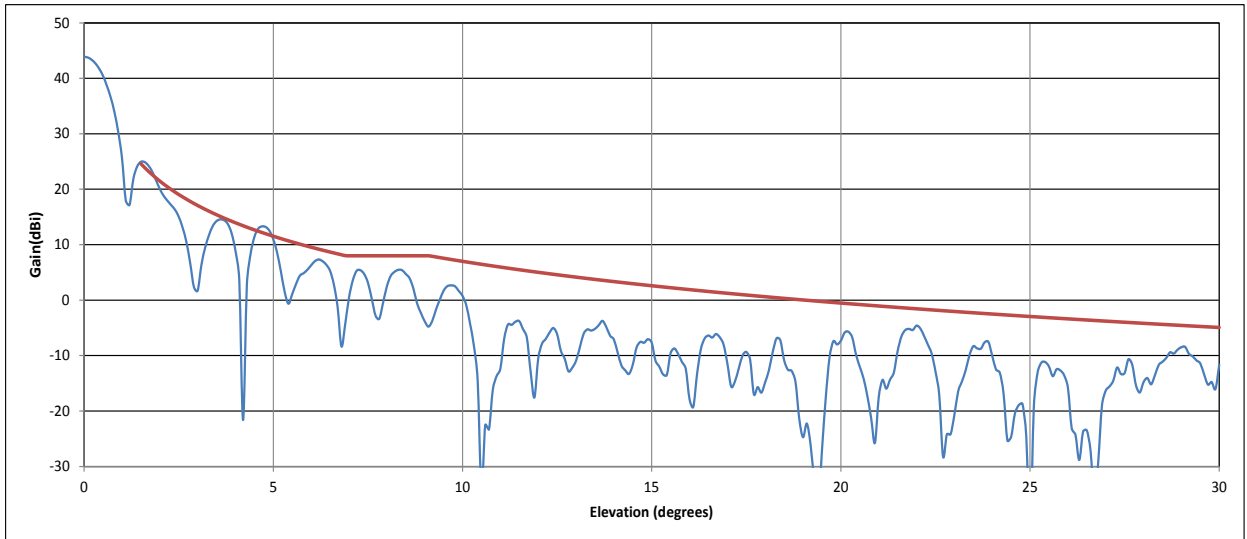
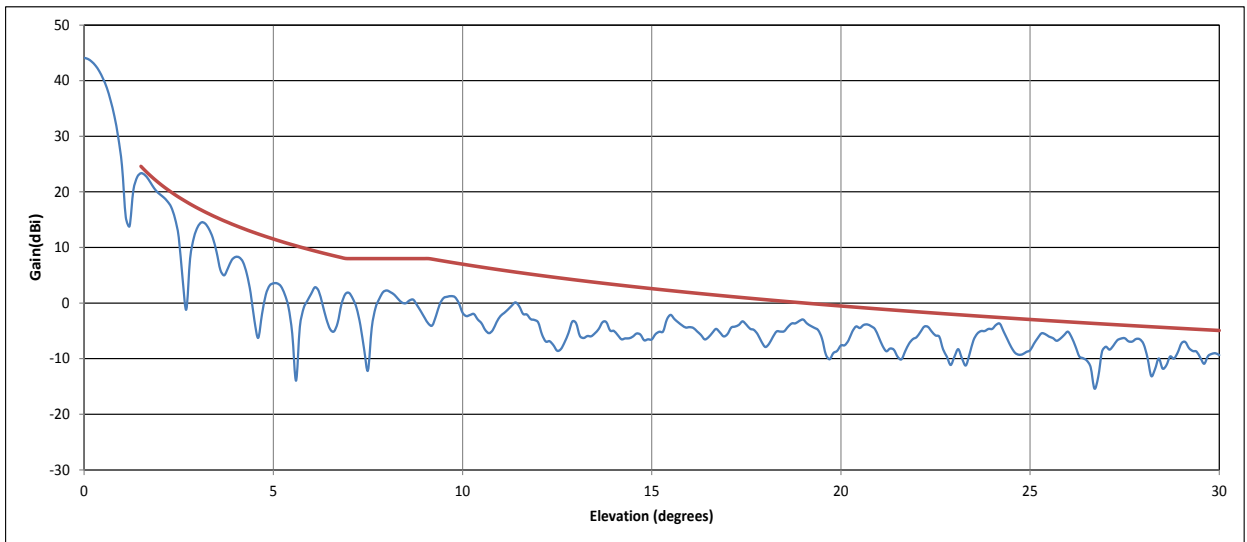


Figure 24 - Plot for 20.2 GHz



1.2.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 25 - Plot for 19.7 GHz

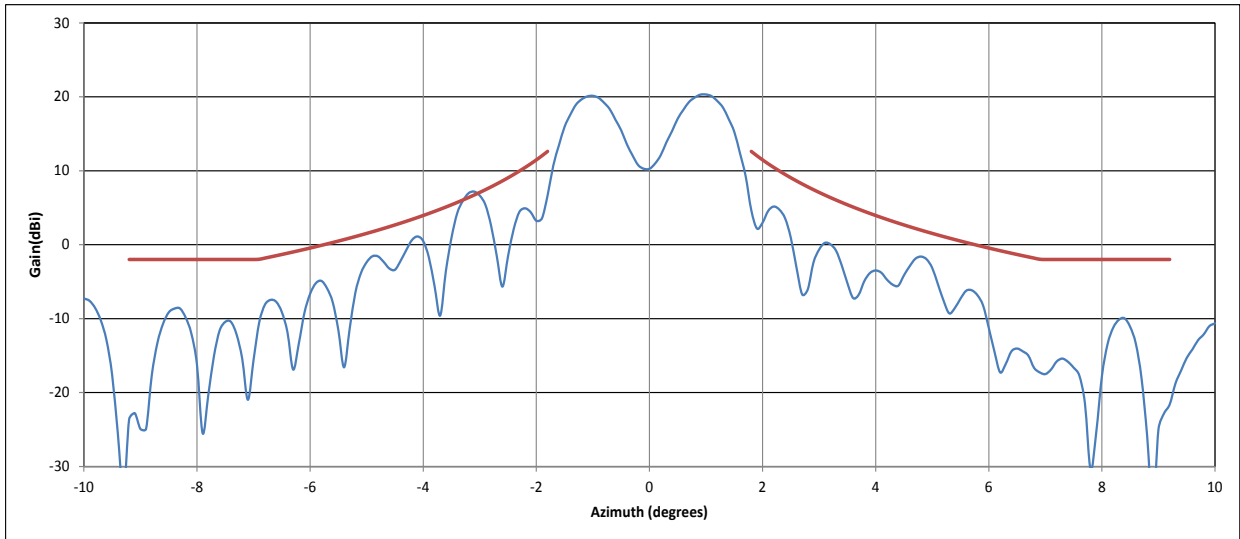


Figure 26 - Plot for 19.95 GHz

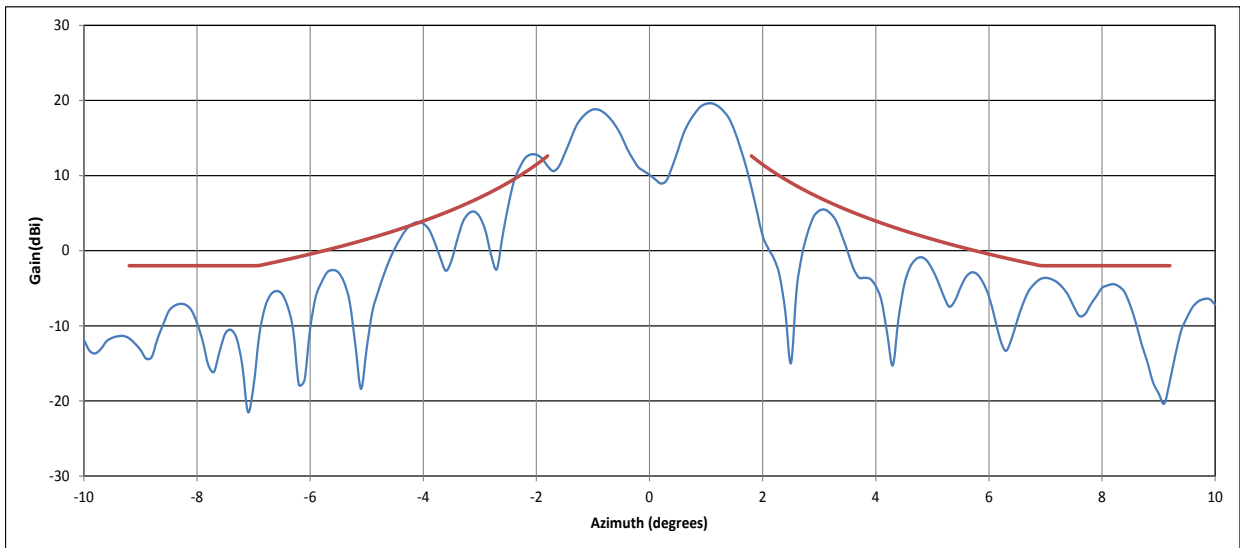
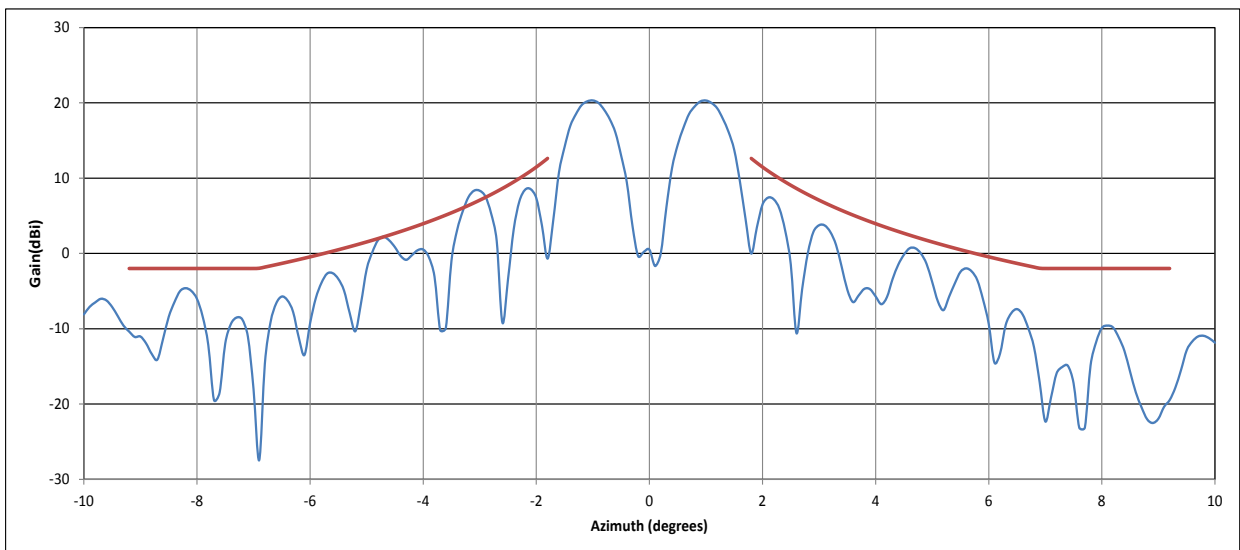


Figure 27 - Plot for 20.2 GHz



1.2.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 28 - Plot for 19.7 GHz

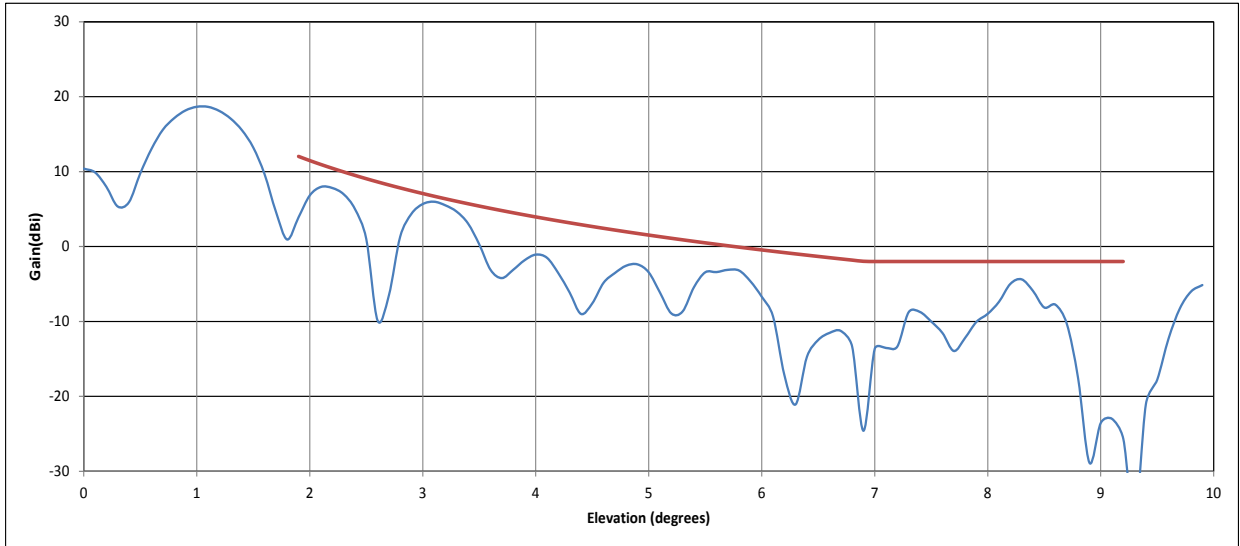


Figure 29 - Plot for 19.95 GHz

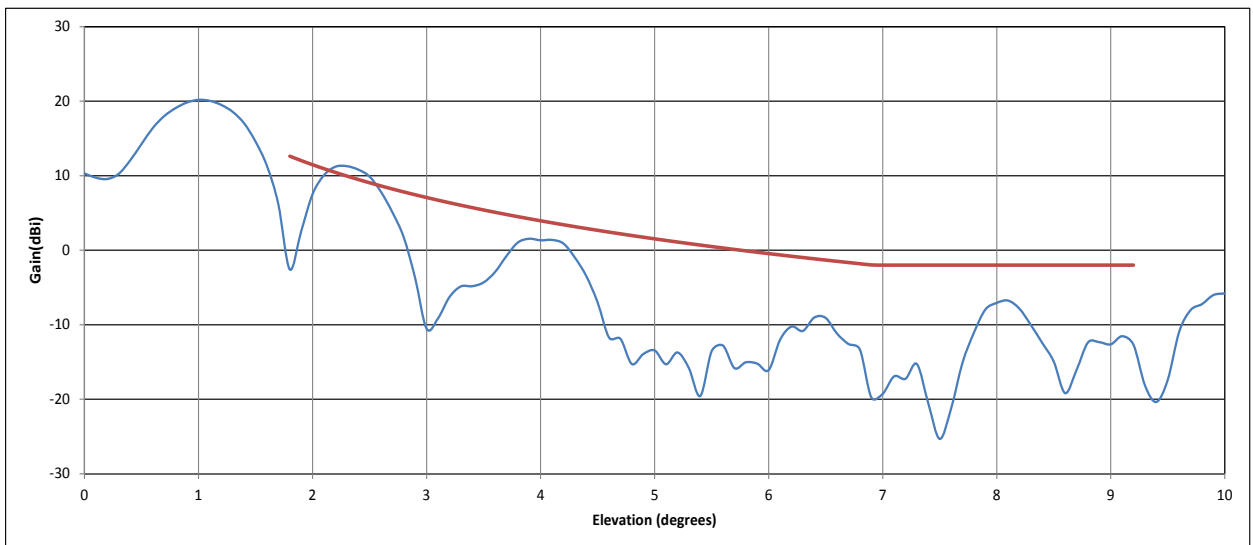
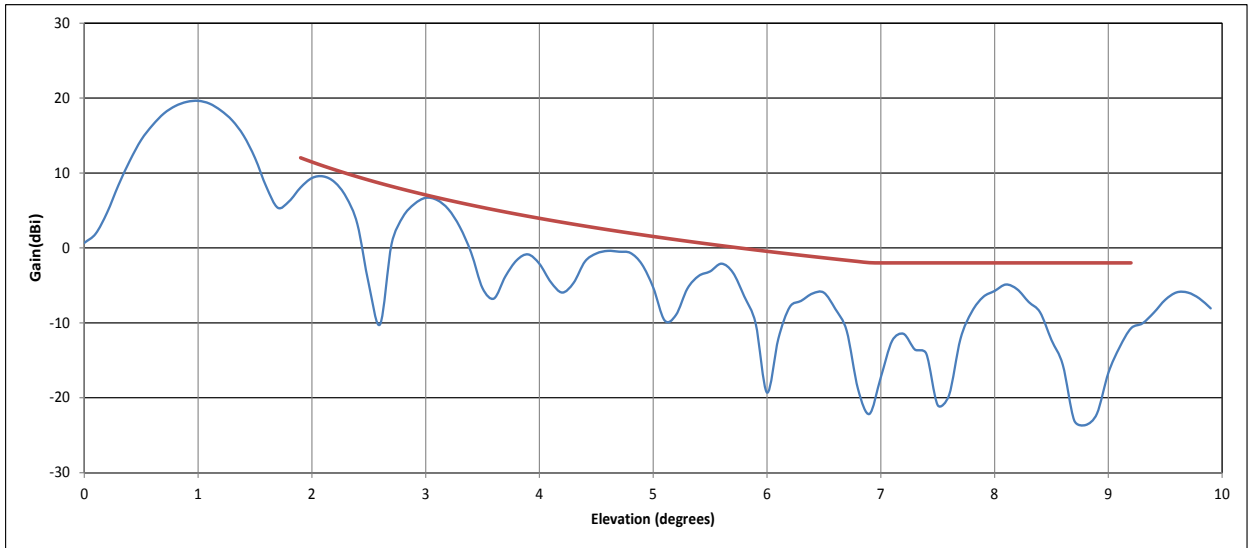


Figure 30 - Plot for 20.2 GHz



ISAT US Inc.
FCC Form 312
EXHIBIT B

Plots for Intellian terminals models Intellian GX60 and Intellian GX100

The following attachment contains all the plots requested for showing the compliance of the Intellian terminals above with the requirements established by FCC §25.138 and §25.209. The plots refer to the frequencies listed in Table 1 below.

Table 1 - Measurement points for plots

Tx frequencies (§25.138)	29.5 GHz	29.75 GHz	30.0 GHz
Rx frequencies (§25.209)	19.7 GHz	19.95 GHz	20.2 GHz

Each plot is compared with the relevant mask derived from the FCC references above.

- 1. Plots for terminal type Intellian GX60**
 - 1.1 Transmit plots (compliance with FCC §25.138)**
 - 1.1.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)**

Figure 1 - Plot for 29.5 GHz

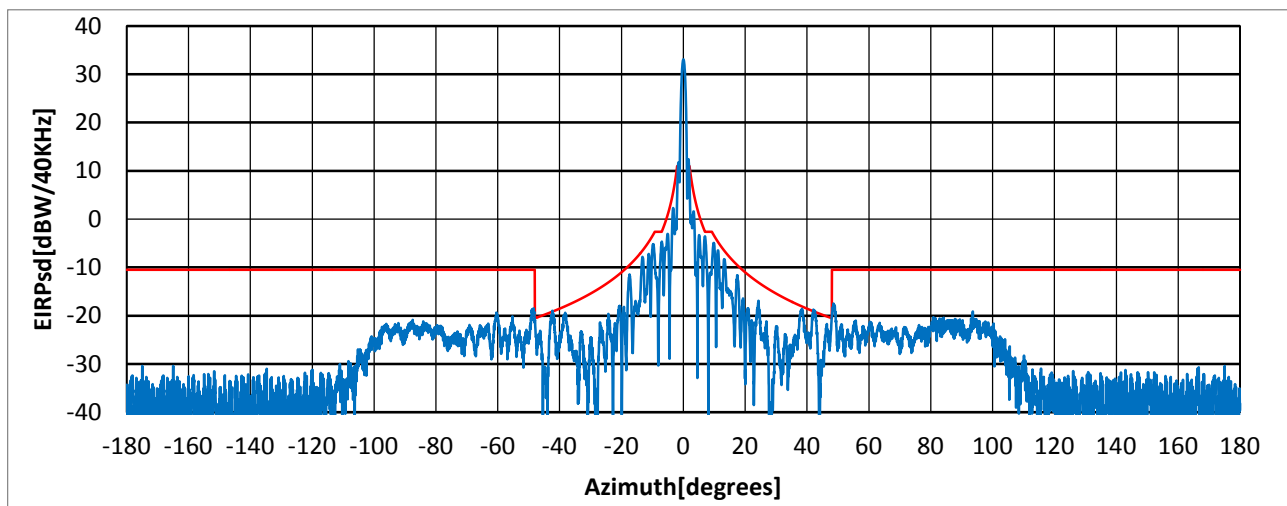


Figure 2 – Plot for 29.75 GHz

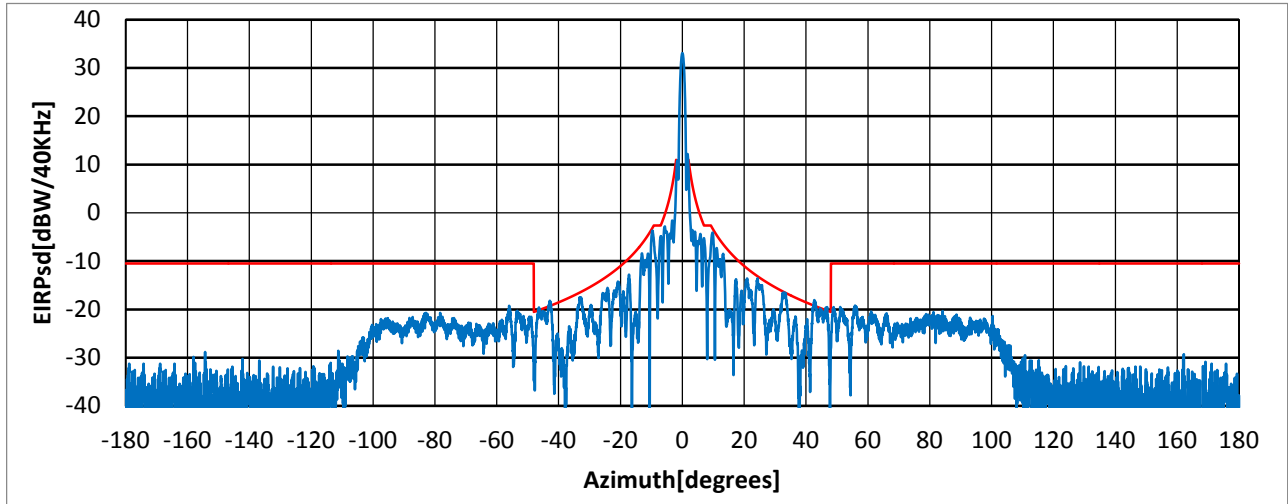
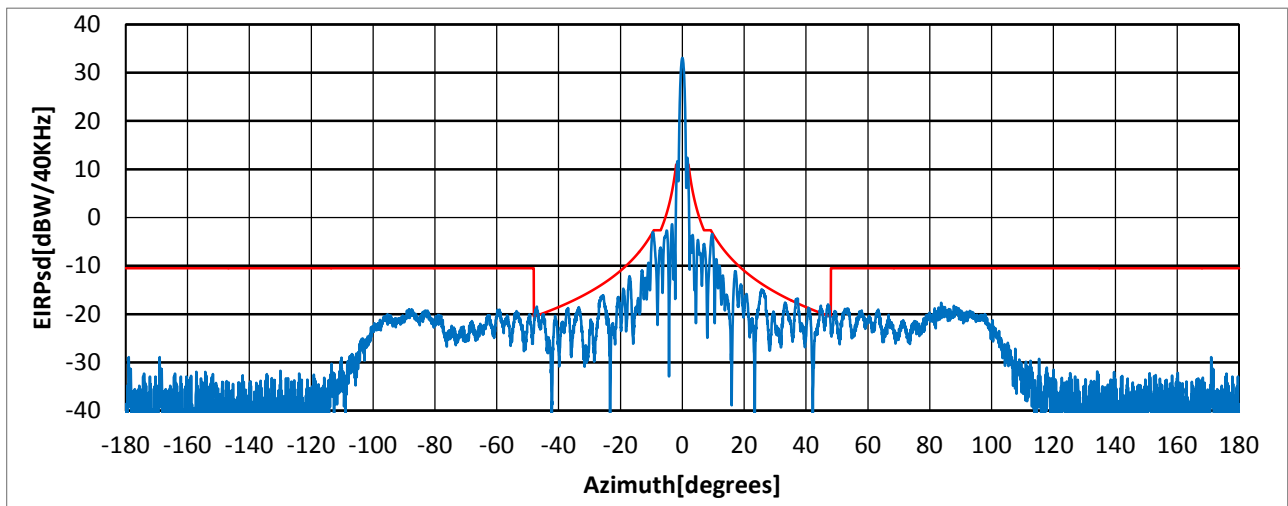


Figure 3 – Plot for 30.0 GHz



1.1.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 4 - Plot for 29.5 GHz

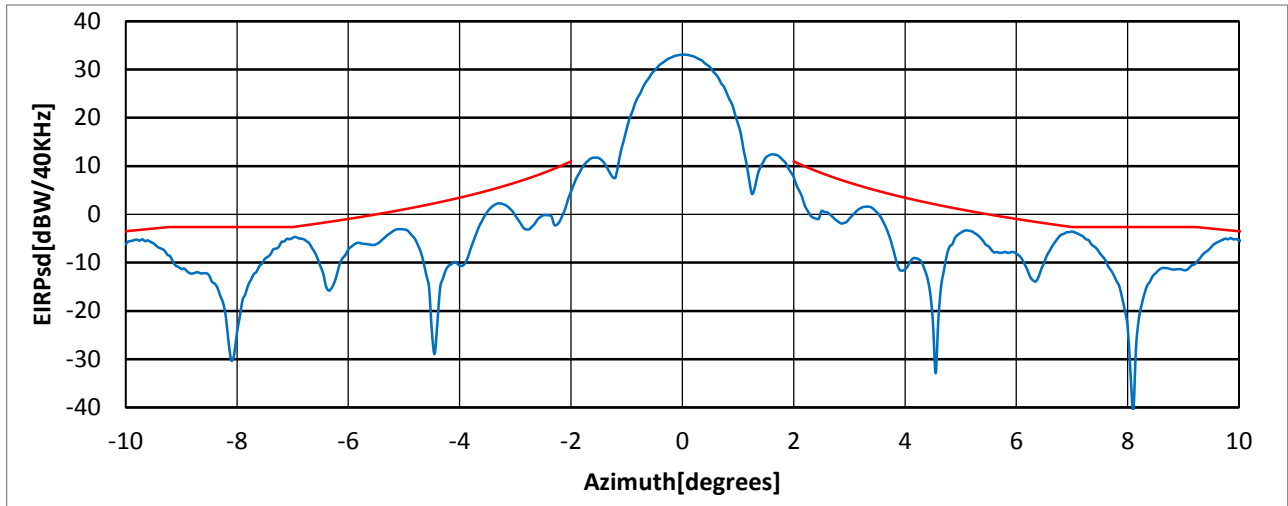


Figure 5 - Plot for 29.75 GHz

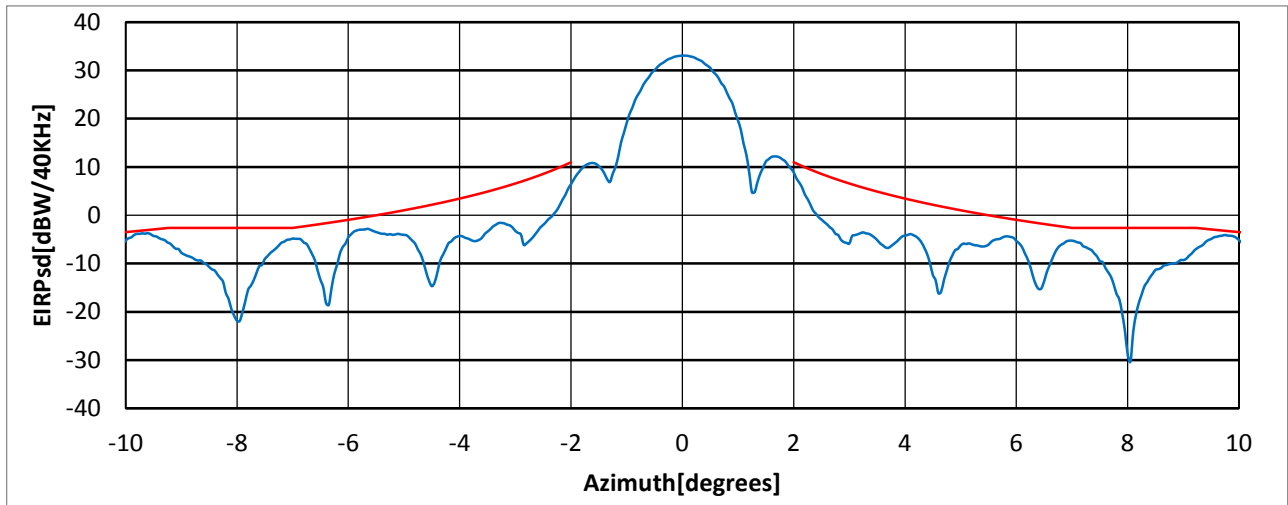
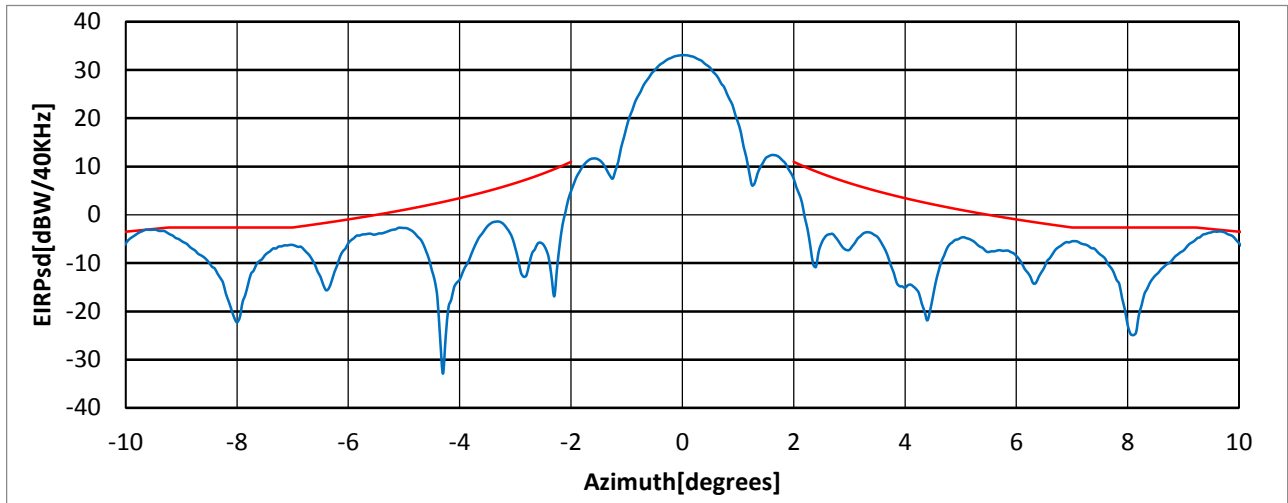


Figure 6 - Plot for 30.0 GHz



1.1.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 7 - Plot for 29.5 GHz

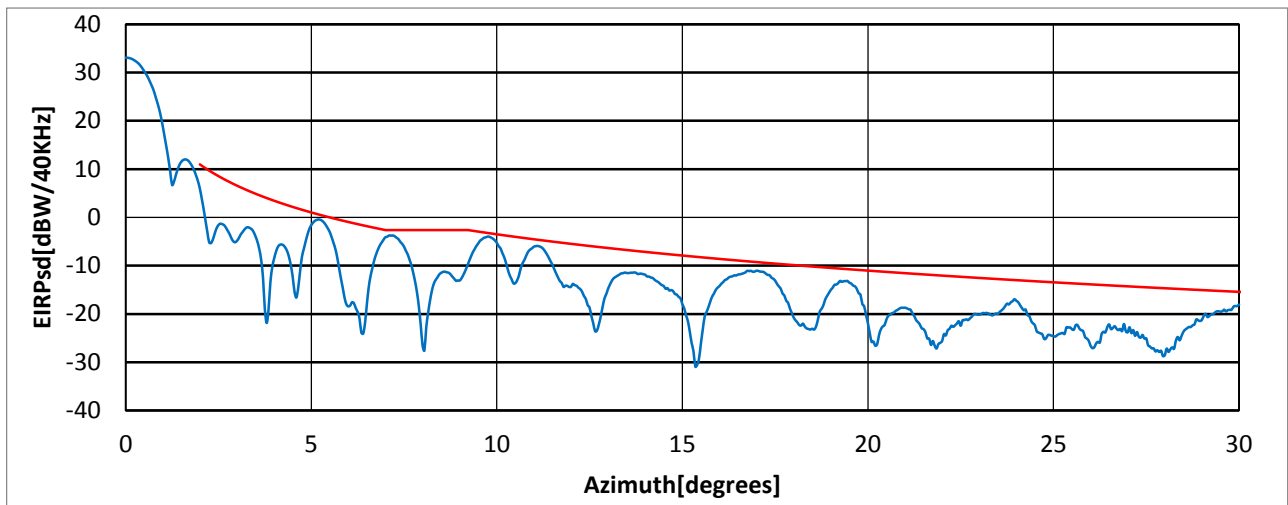


Figure 8 - Plot for 29.5 GHz

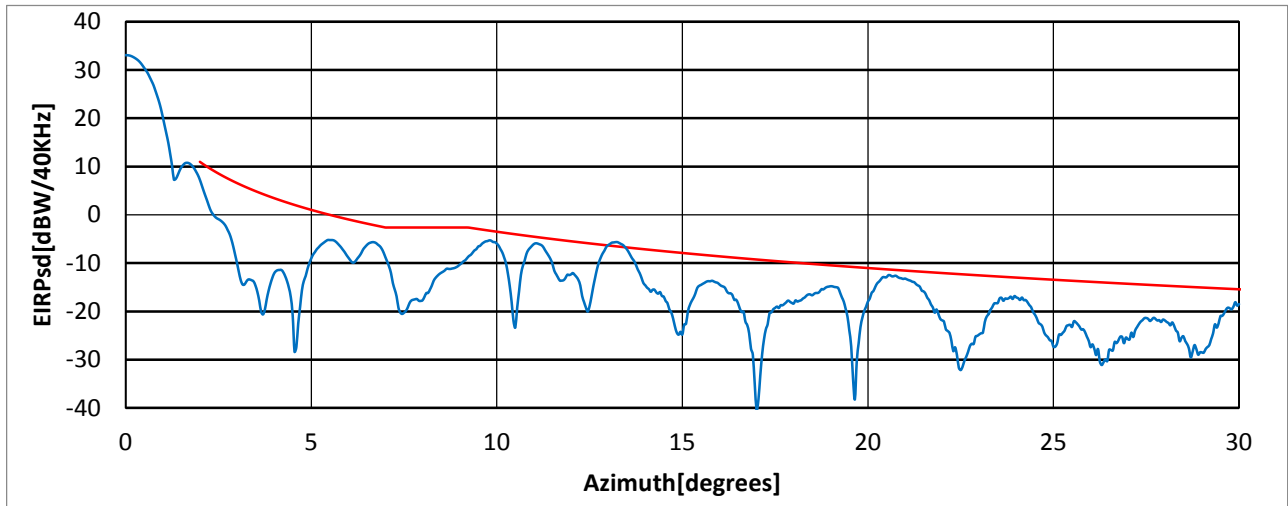
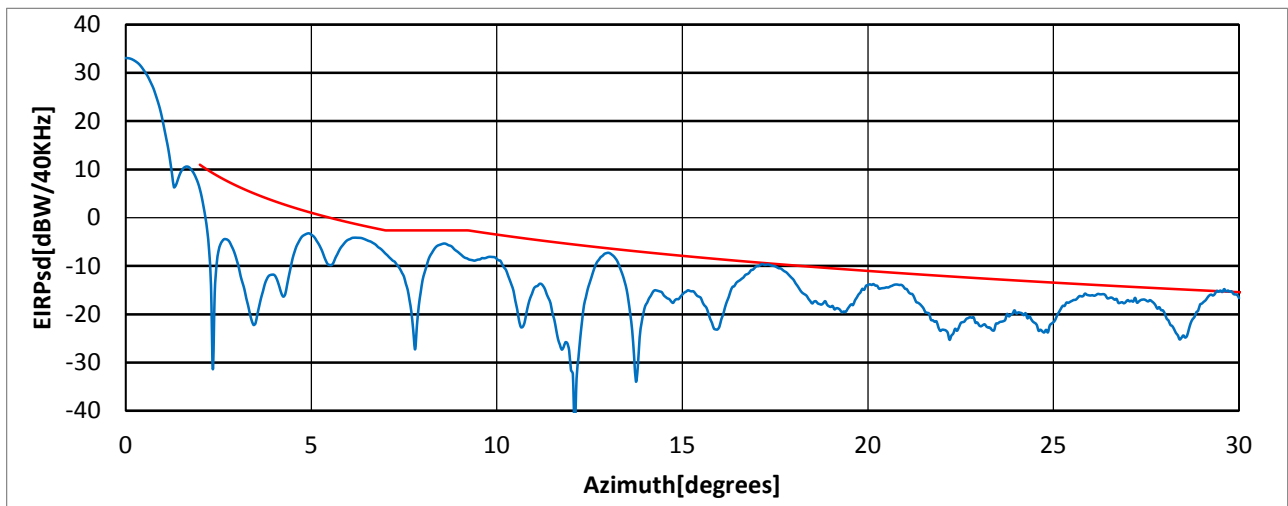


Figure 9 - Plot for 30.0 GHz



1.1.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 10 - Plot for 29.5 GHz

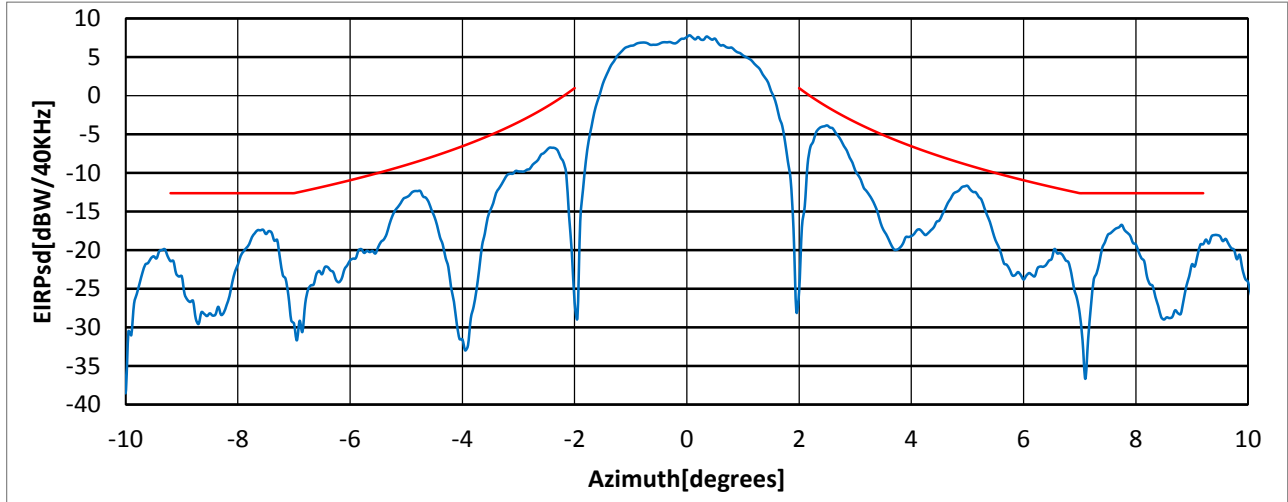


Figure 11 - Plot for 29.75 GHz

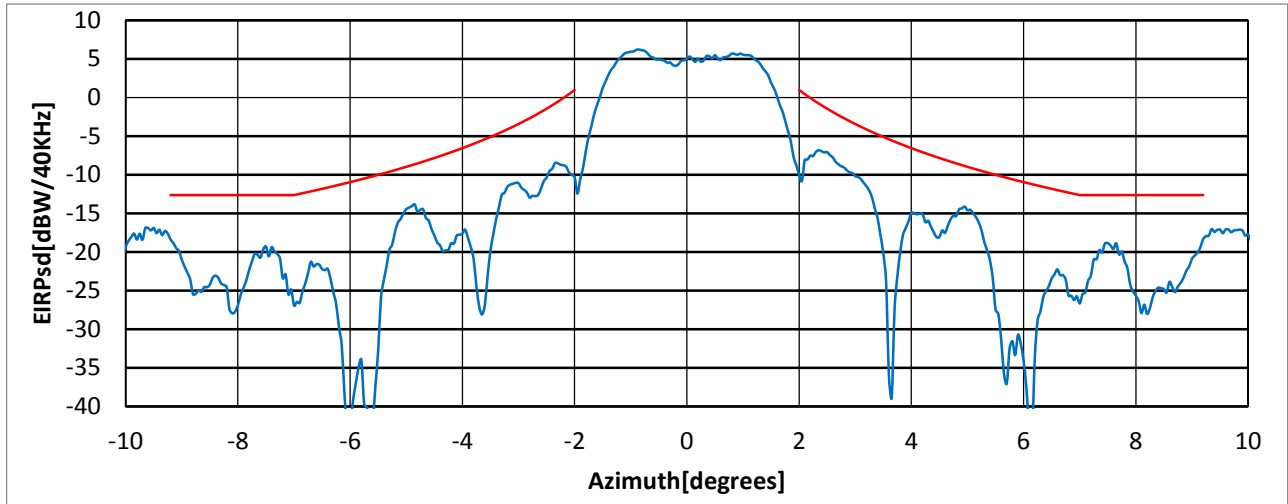
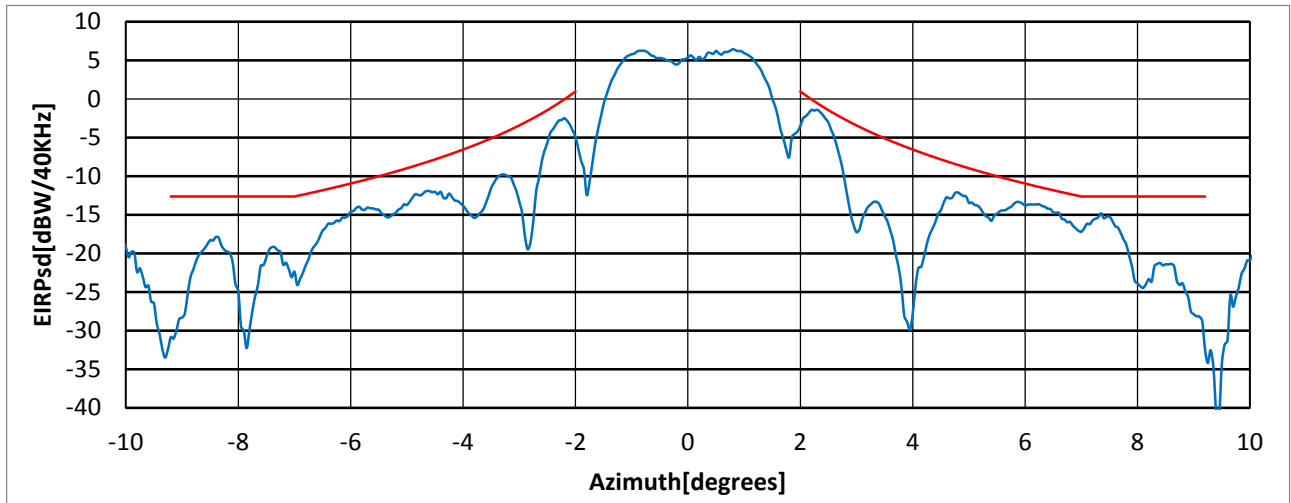


Figure 12 - Plot for 30.0 GHz



1.1.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 13 - Plot for 29.5 GHz

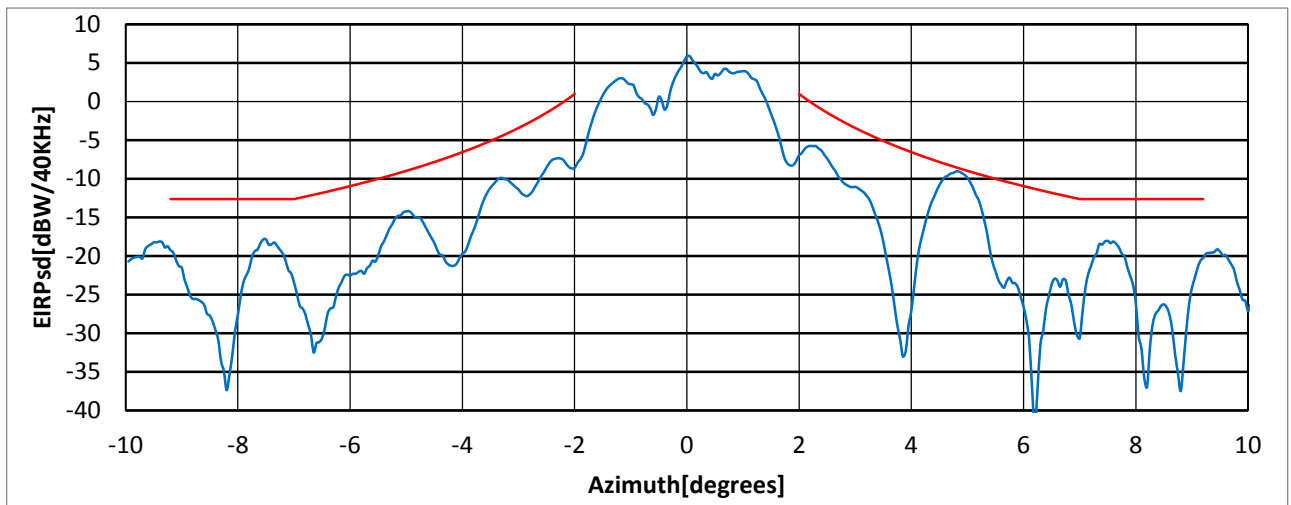


Figure 14- Plot for 29.75 GHz

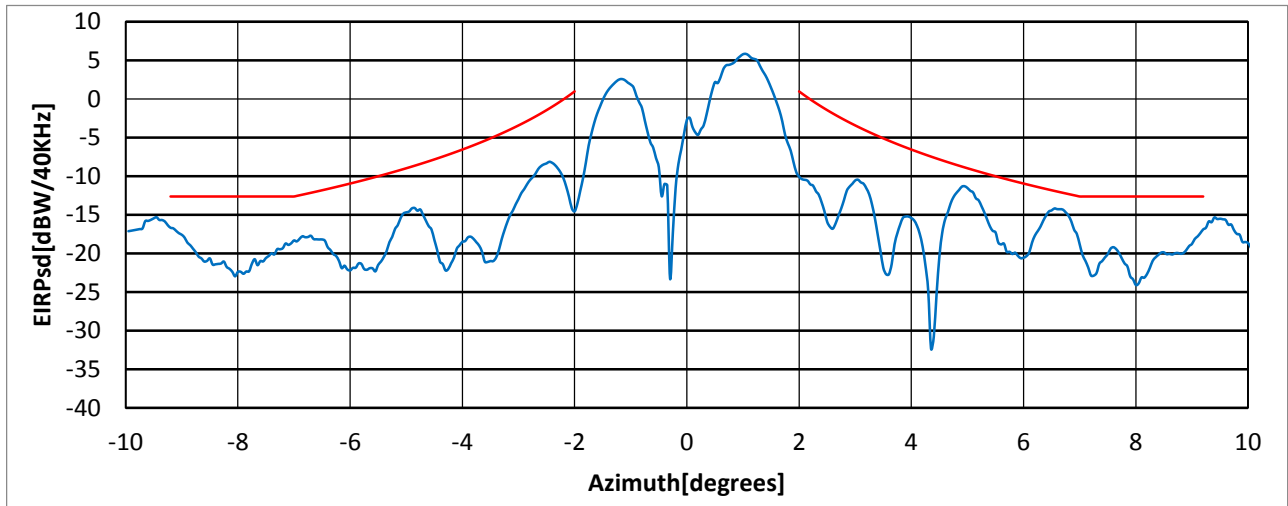
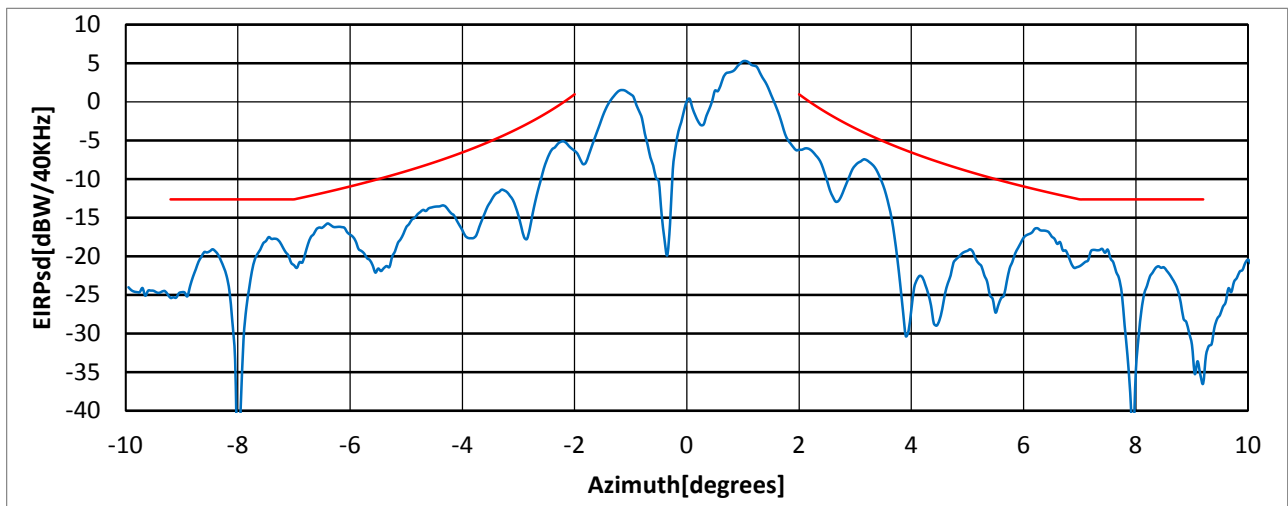


Figure 15 - Plot for 30.0 GHz



1.2 Receive plots (compliance with FCC §25.209)

1.2.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 16 - Plot for 19.7 GHz

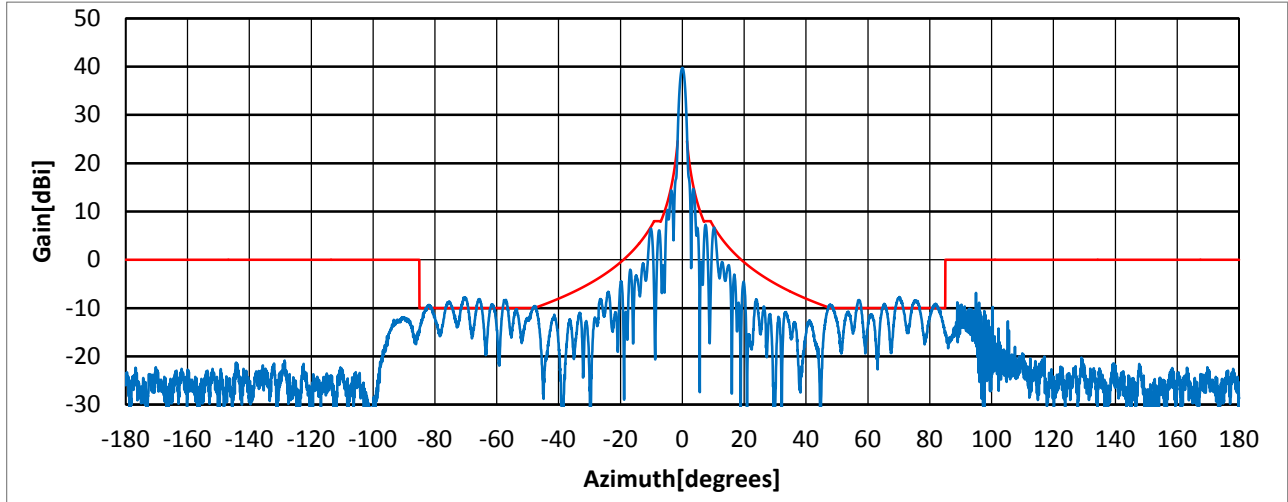


Figure 17 - Plot for 19.95 GHz

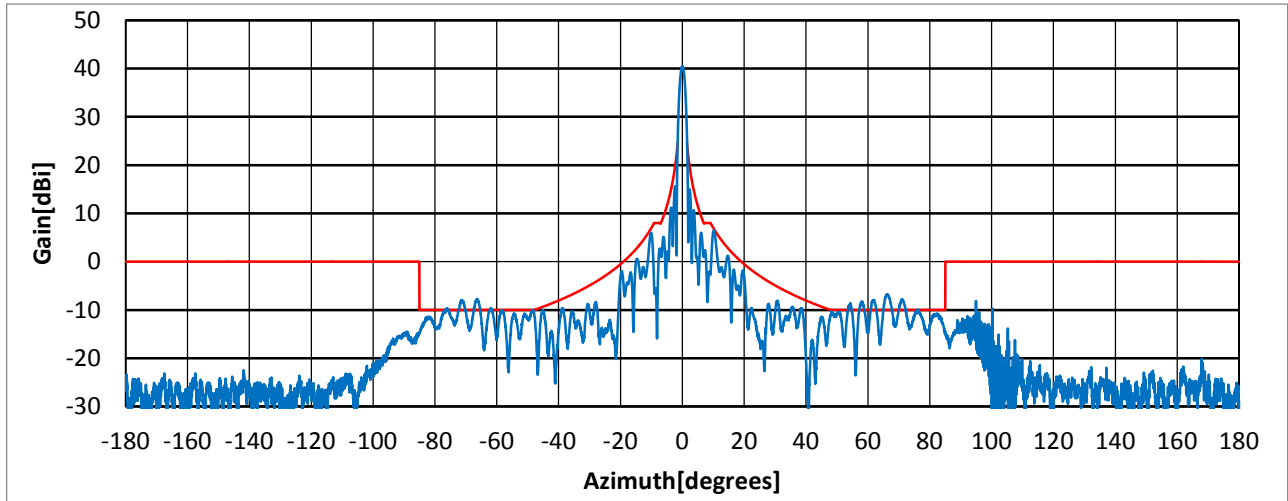
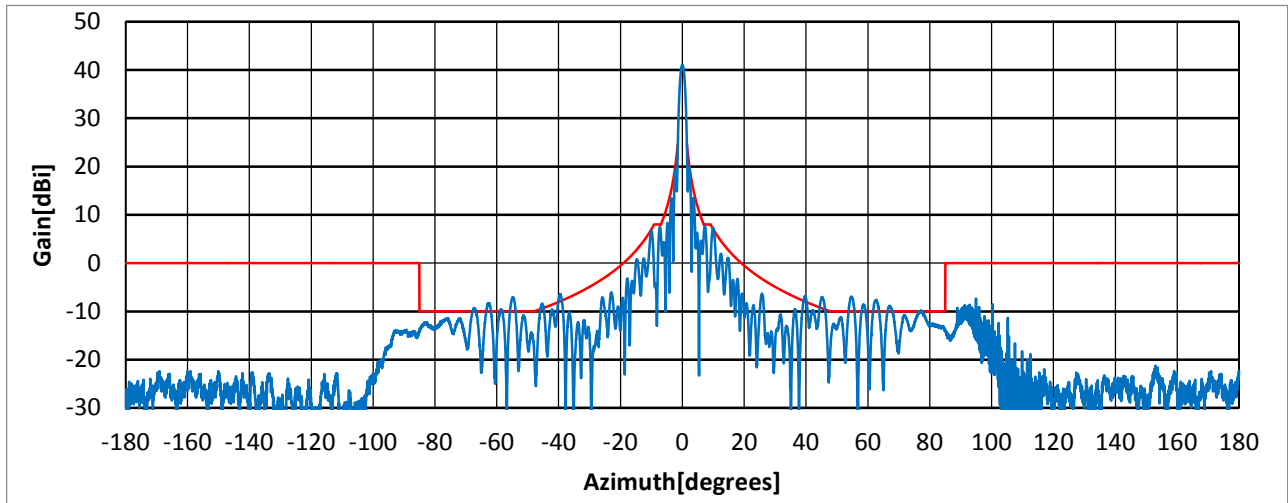


Figure 18 - Plot for 20.2 GHz



1.2.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 19 - Plot for 19.7 GHz

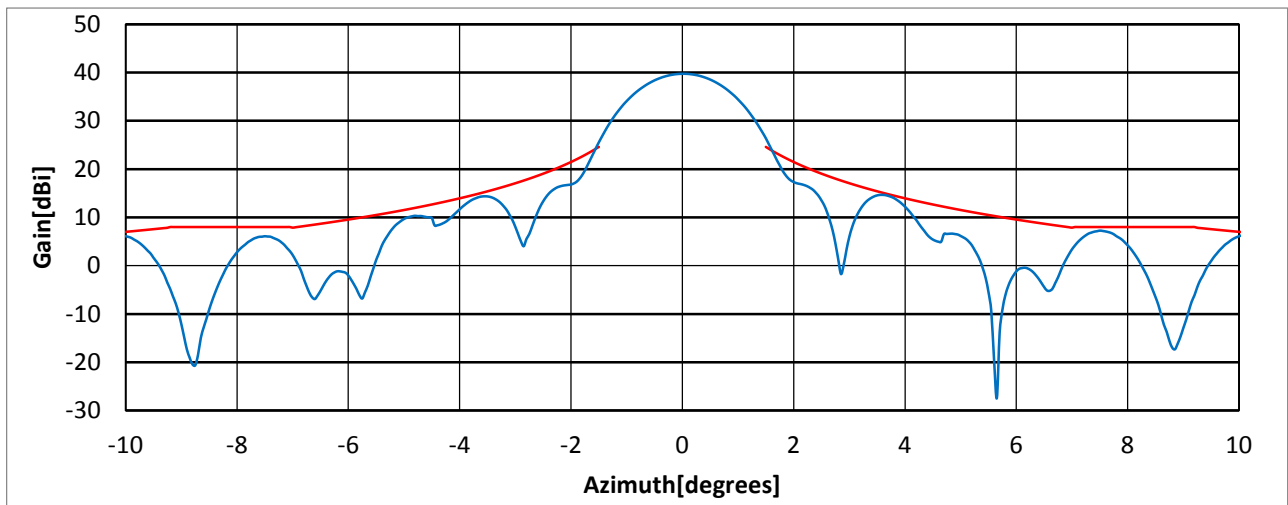


Figure 20 - Plot for 19.95 GHz

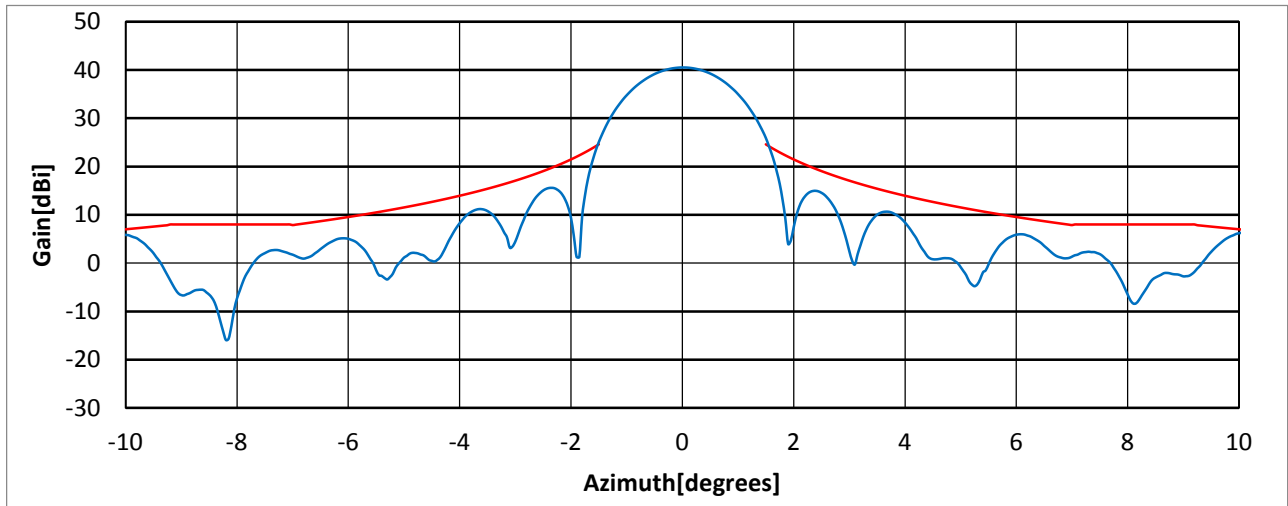
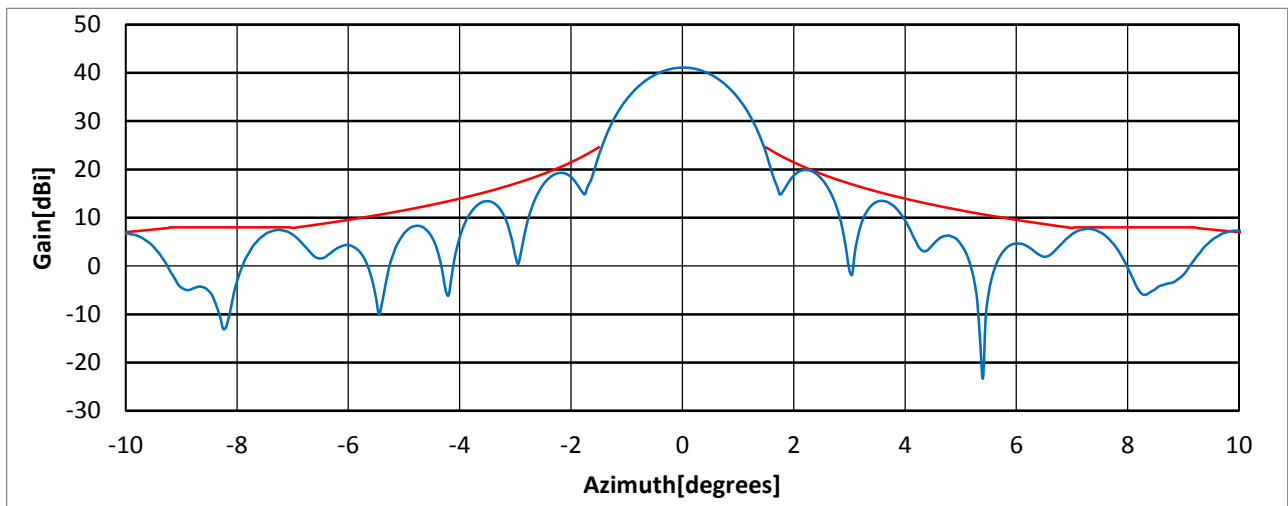


Figure 21 - Plot for 20.2 GHz



1.2.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 22 - Plot for 19.7 GHz

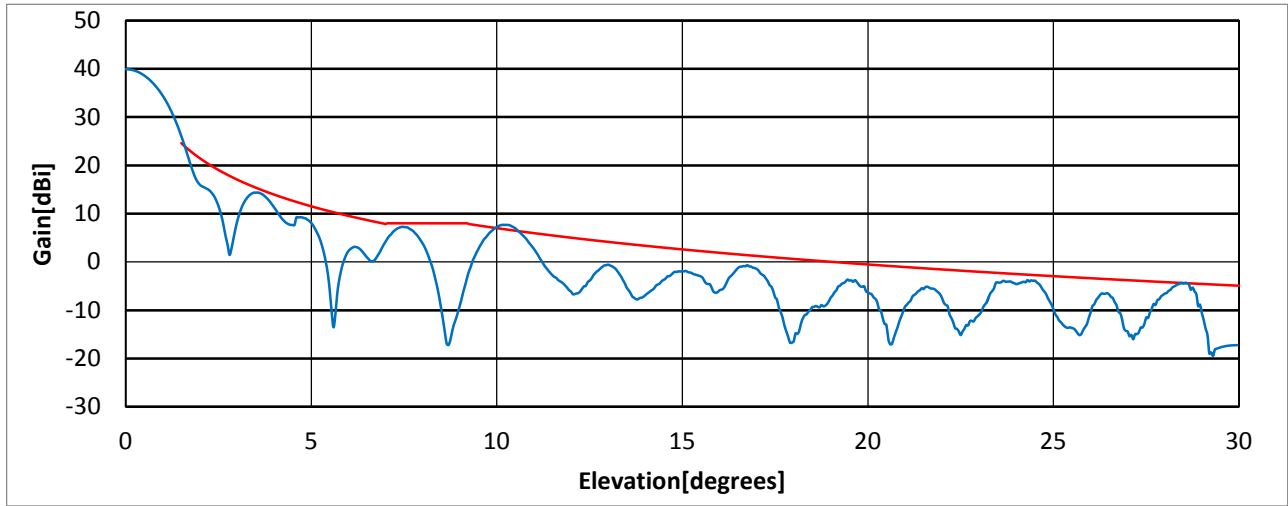


Figure 23 - Plot for 19.95 GHz

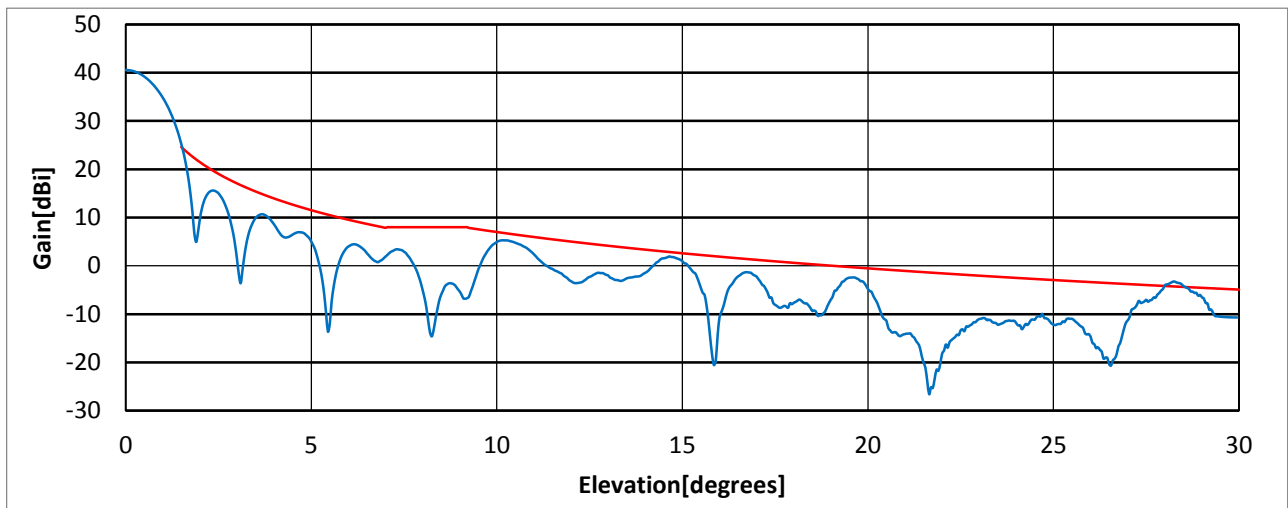
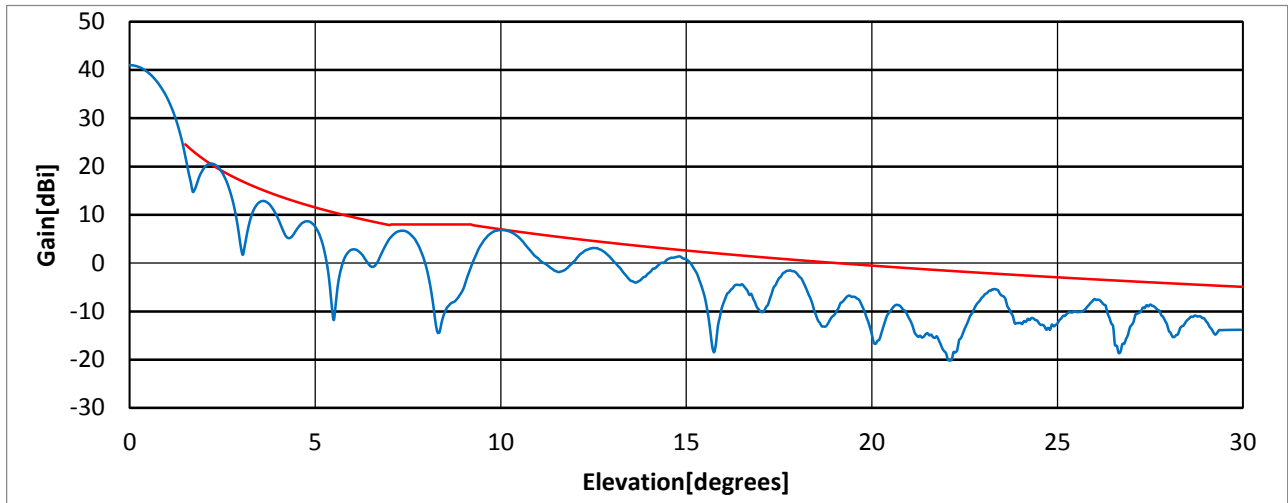


Figure 24 - Plot for 20.2 GHz



1.2.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 25 - Plot for 19.7 GHz

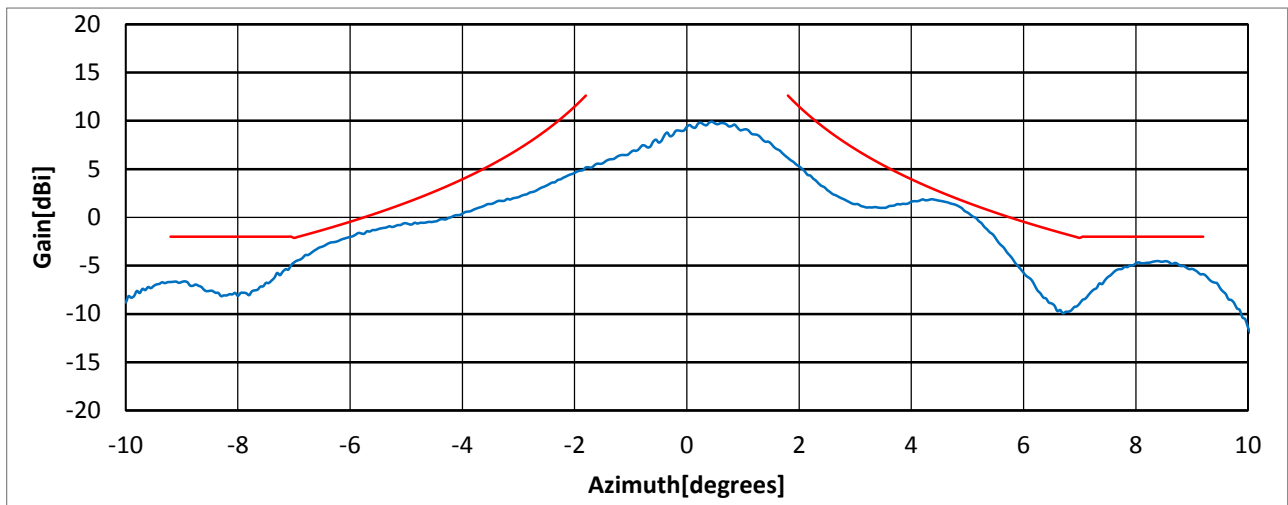


Figure 26 - Plot for 19.95 GHz

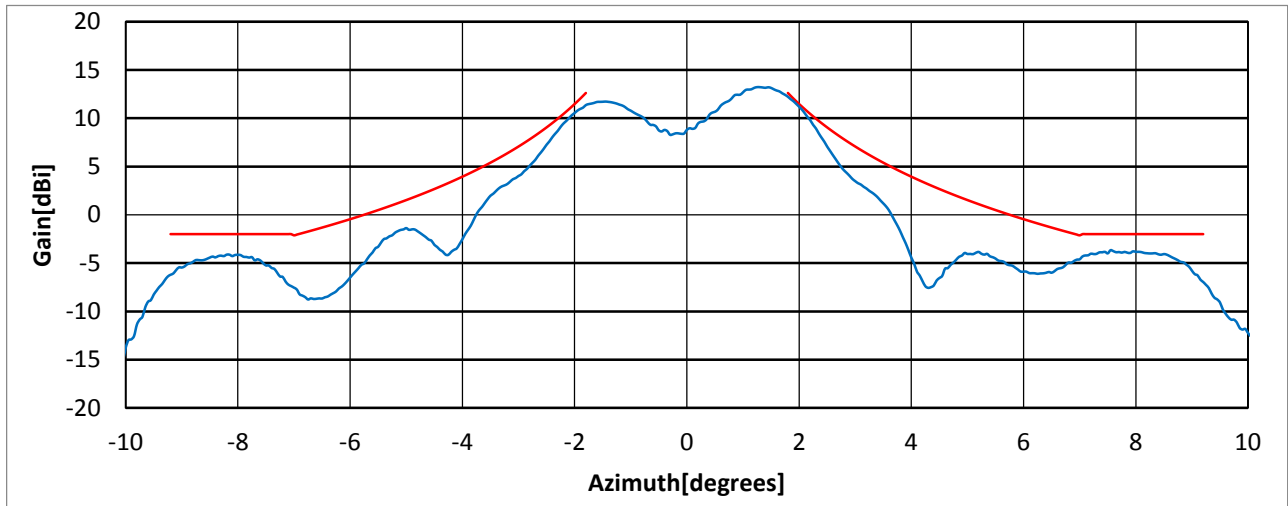
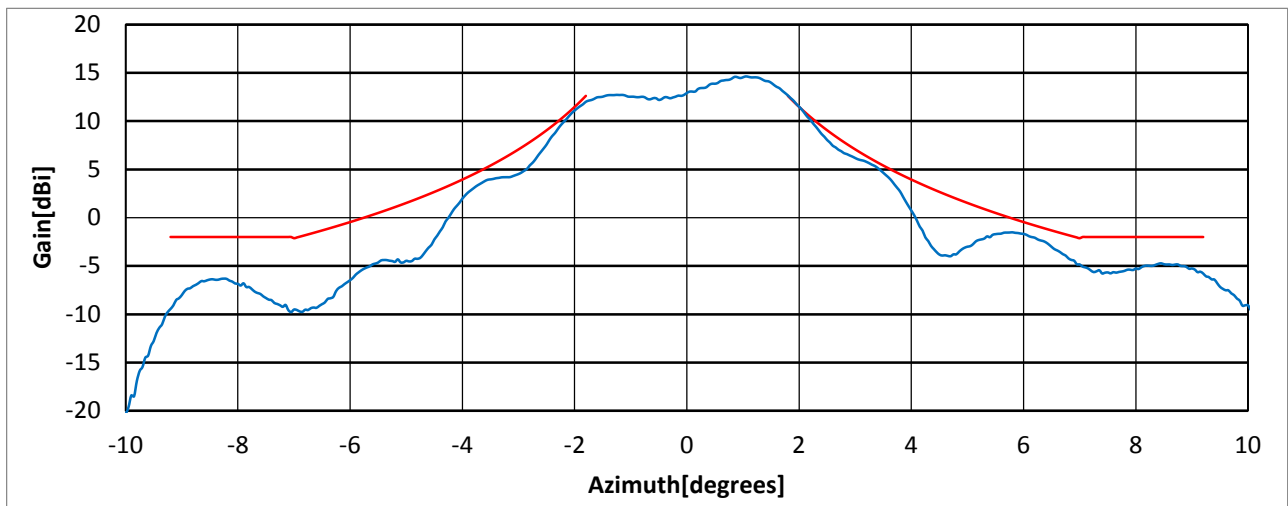


Figure 27 - Plot for 20.2 GHz



1.2.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 28 - Plot for 19.7 GHz

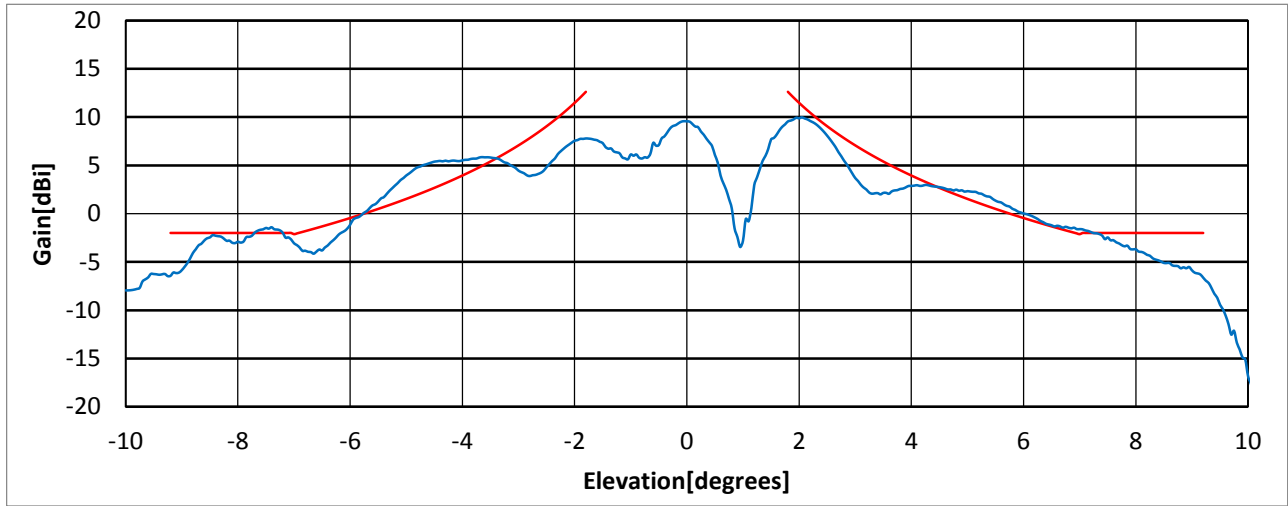


Figure 29 - Plot for 19.95 GHz

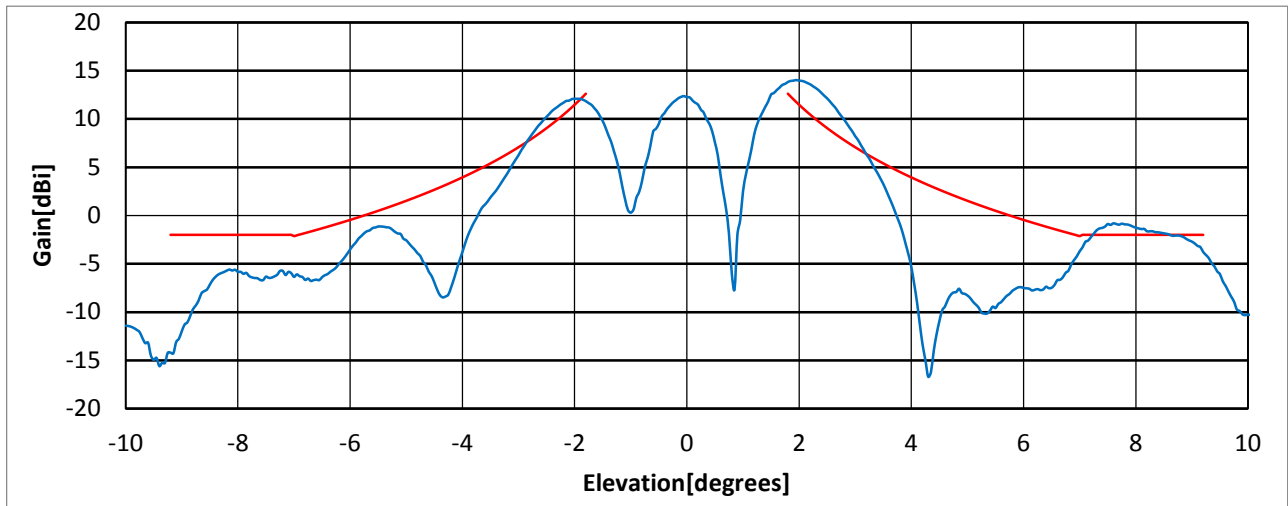
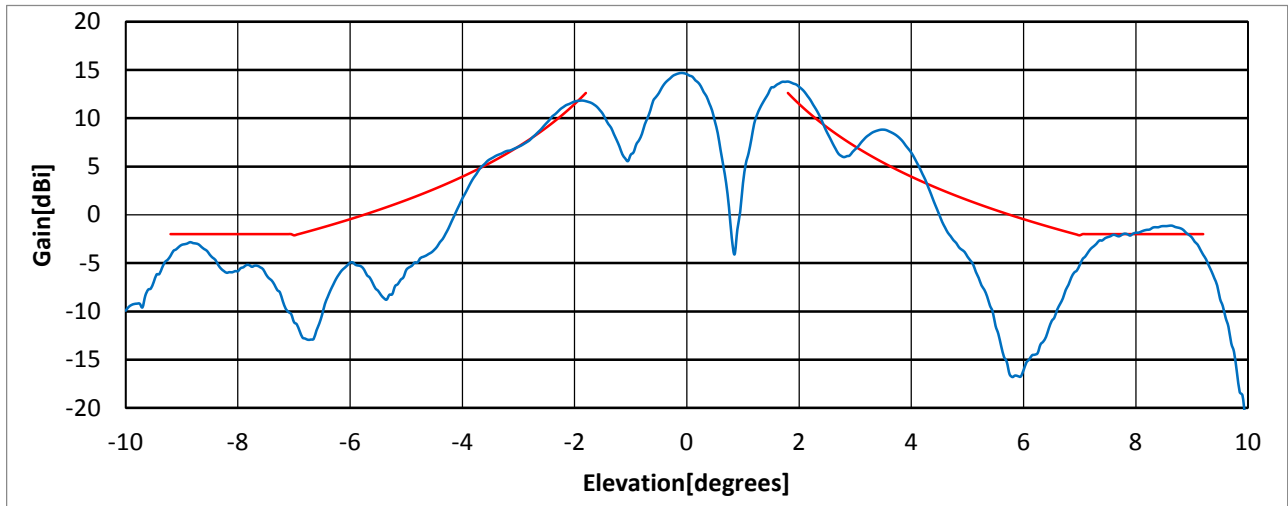


Figure 30 - Plot for 20.2 GHz



2. Plots for terminal type Intellian GX100

2.1 Transmit plots (compliance with FCC §25.138)

2.1.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 31 - Plot for 29.5 GHz

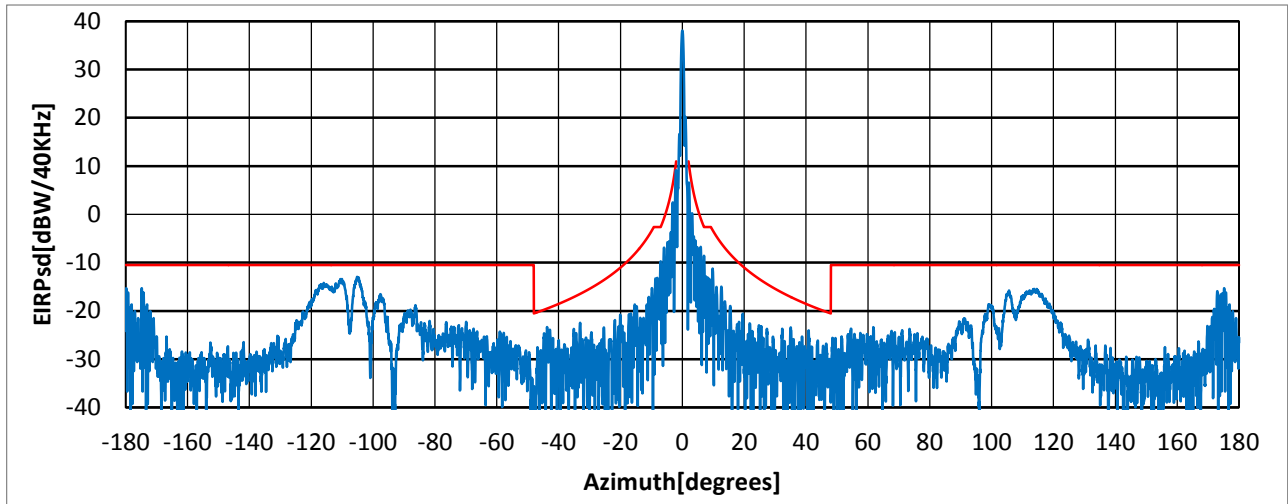


Figure 32 - Plot for 29.75 GHz

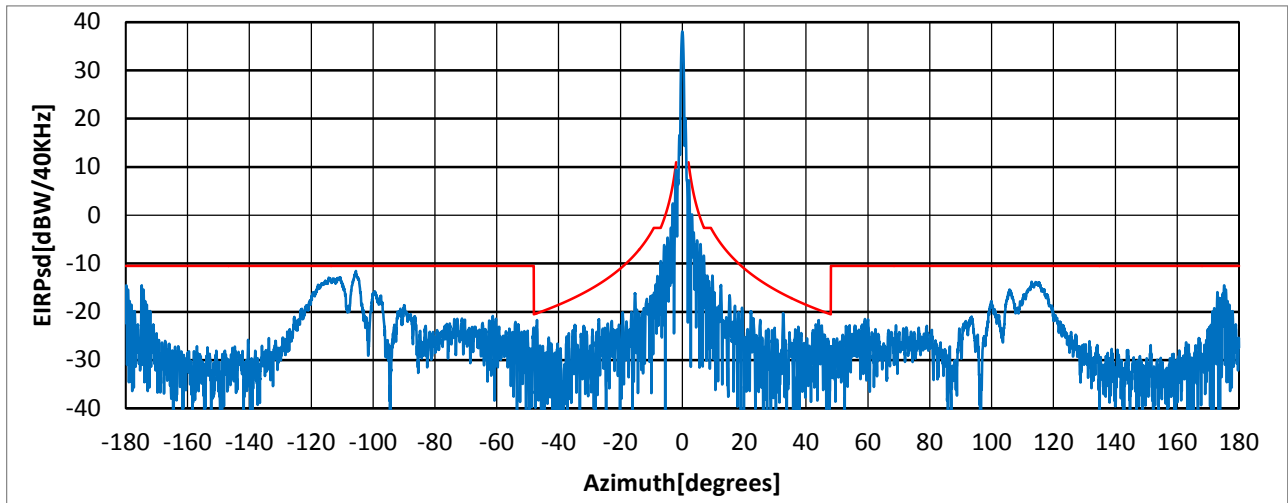
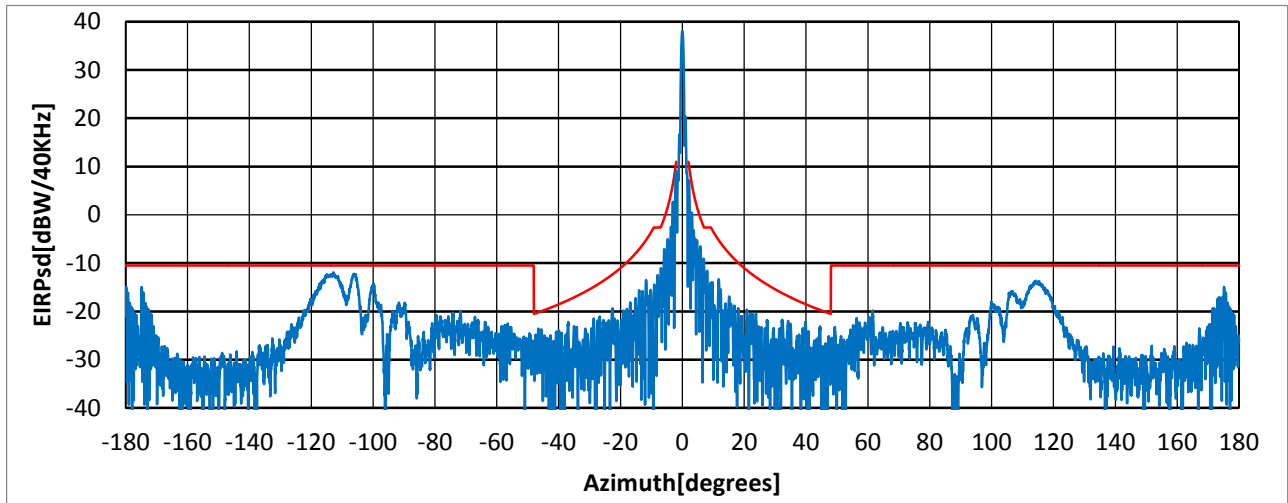


Figure 33 - Plot for 30.0 GHz



2.1.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 34 - Plot for 29.5 GHz

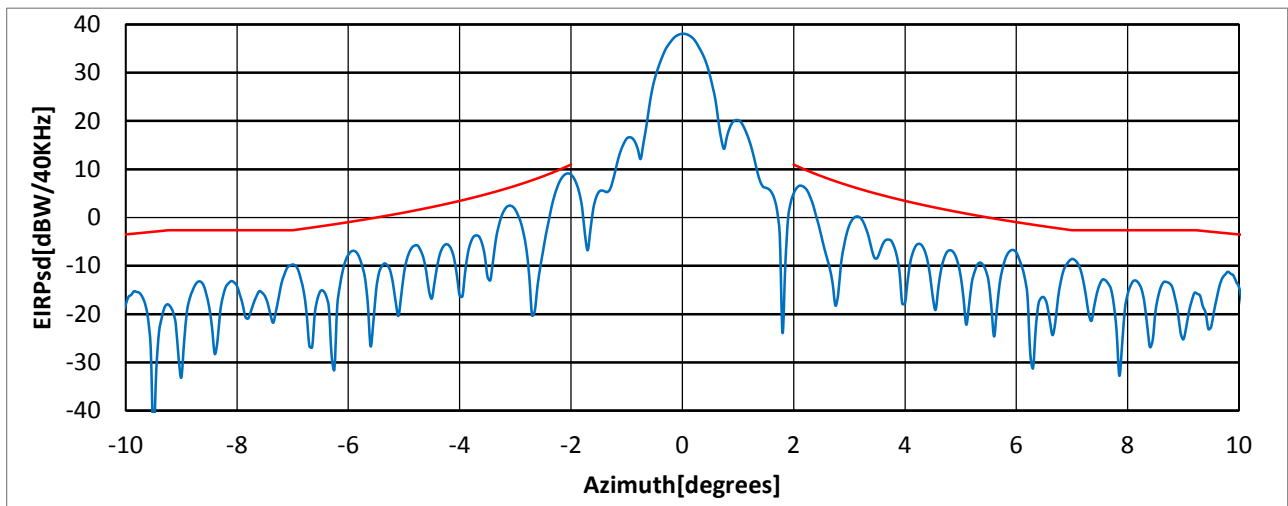


Figure 35 - Plot for 29.75 GHz

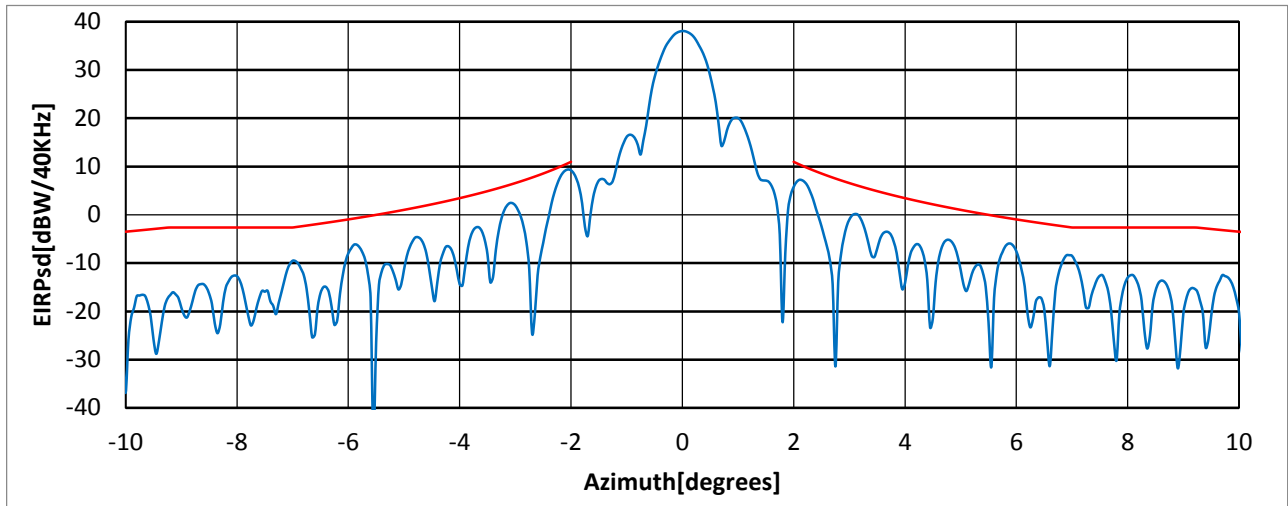
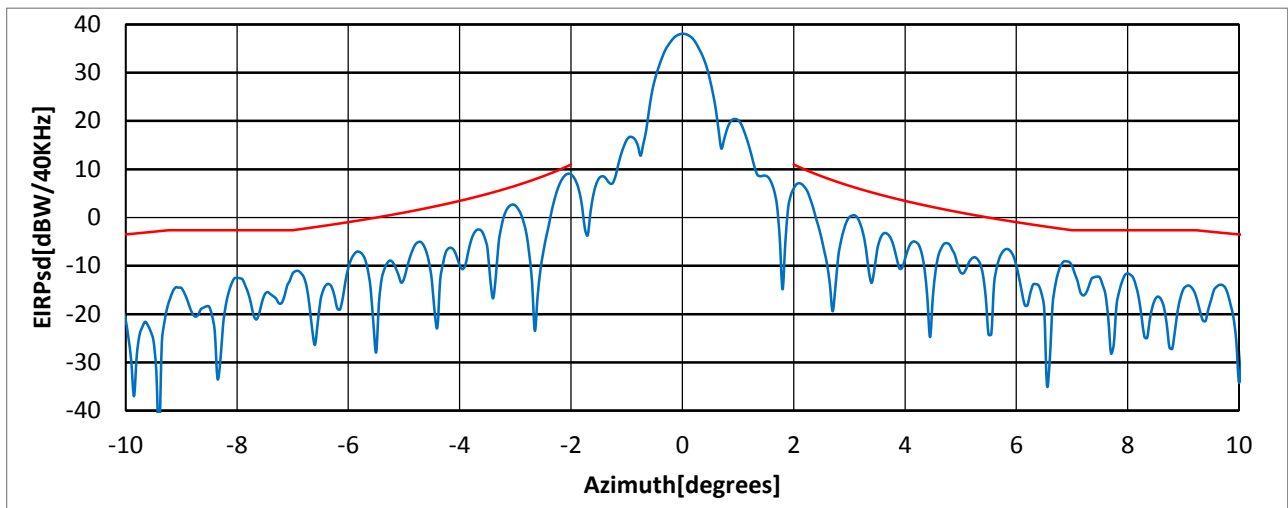


Figure 36 - Plot for 30.0 GHz



2.1.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 37 - Plot for 29.5 GHz

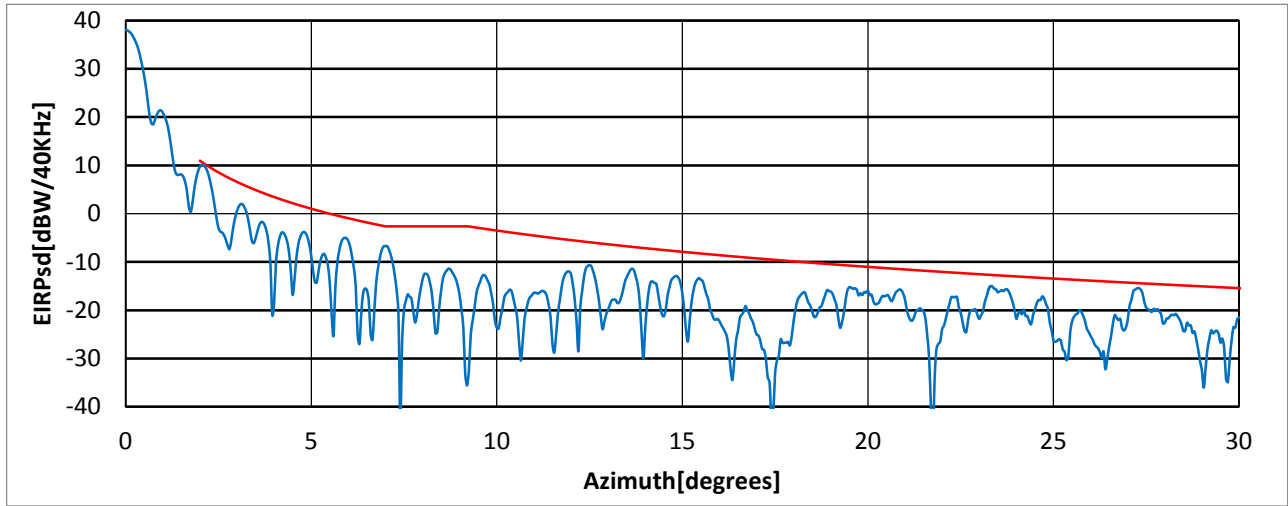


Figure 38 - Plot for 29.75 GHz

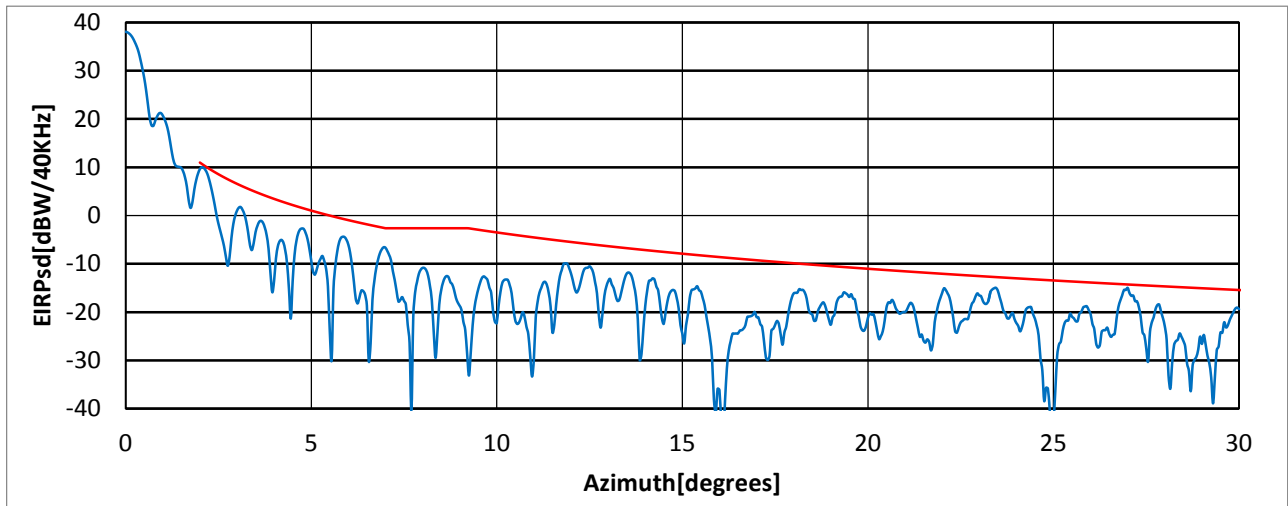
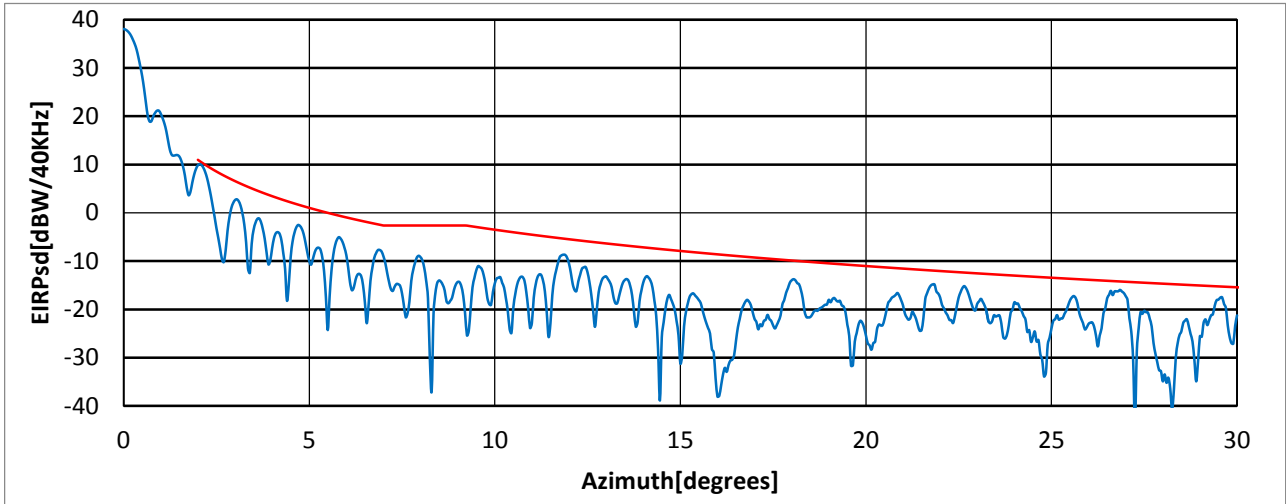


Figure 39 - Plot for 30.0 GHz



2.1.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 40 - Plot for 29.5 GHz

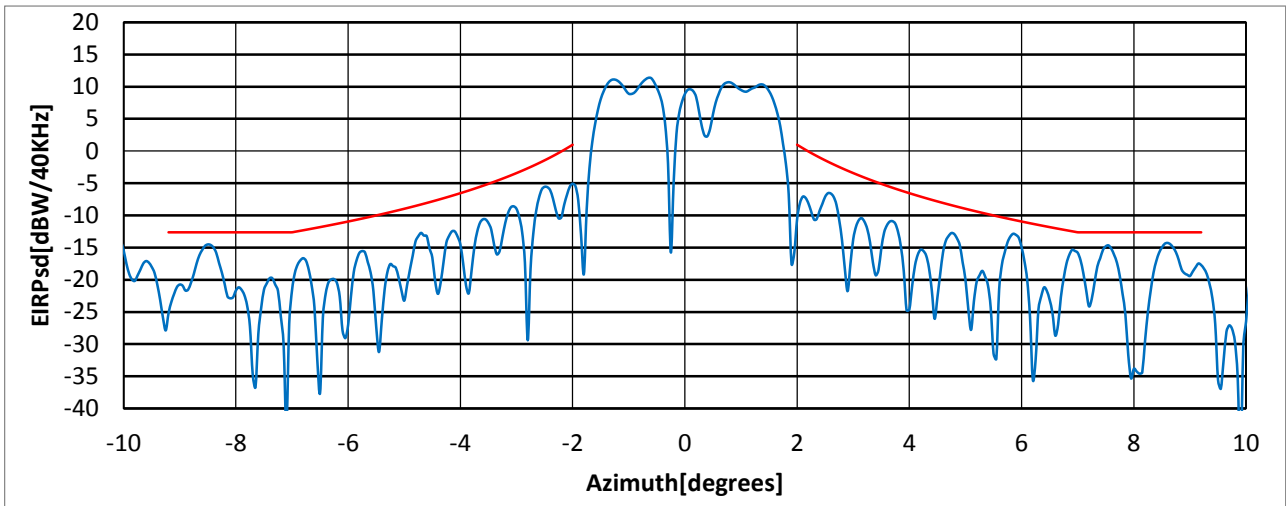


Figure 41 - Plot for 29.75 GHz

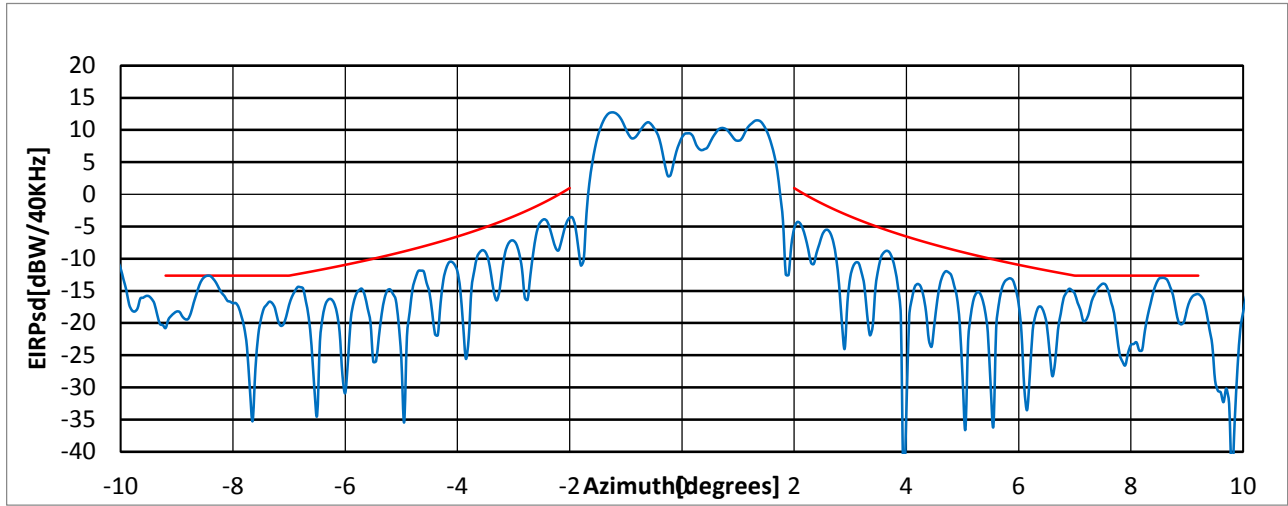
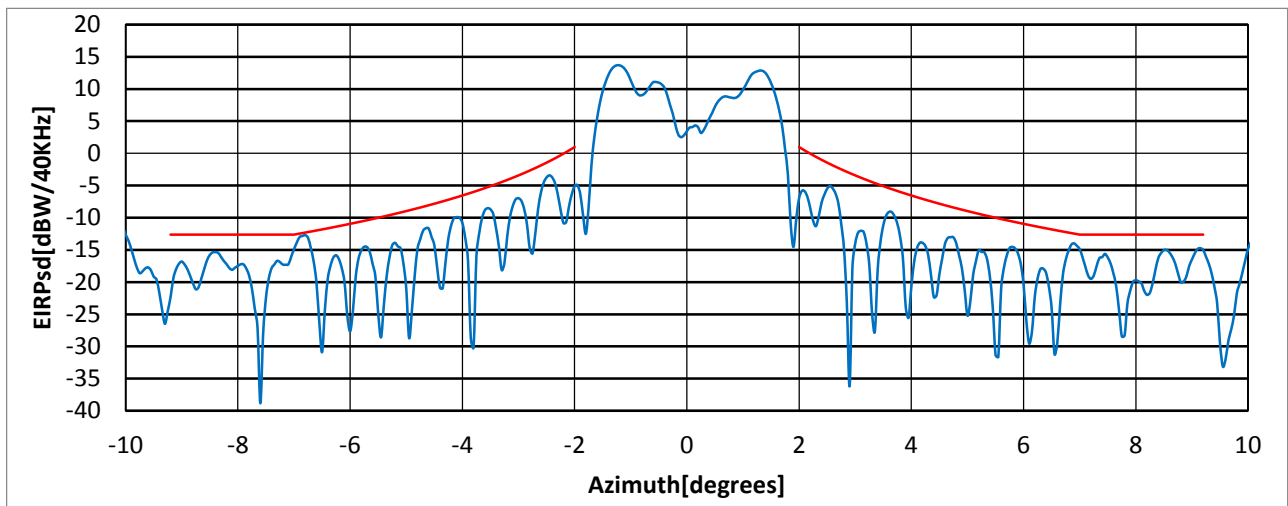


Figure 42 - Plot for 30.0 GHz



2.1.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 43 - Plot for 29.5 GHz

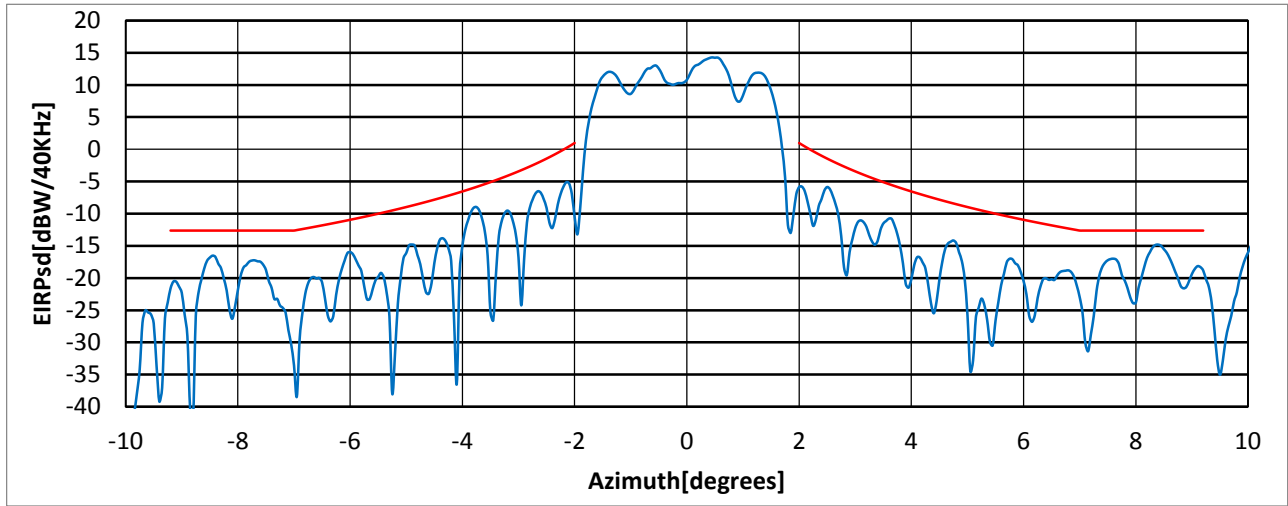


Figure 44 - Plot for 29.75 GHz

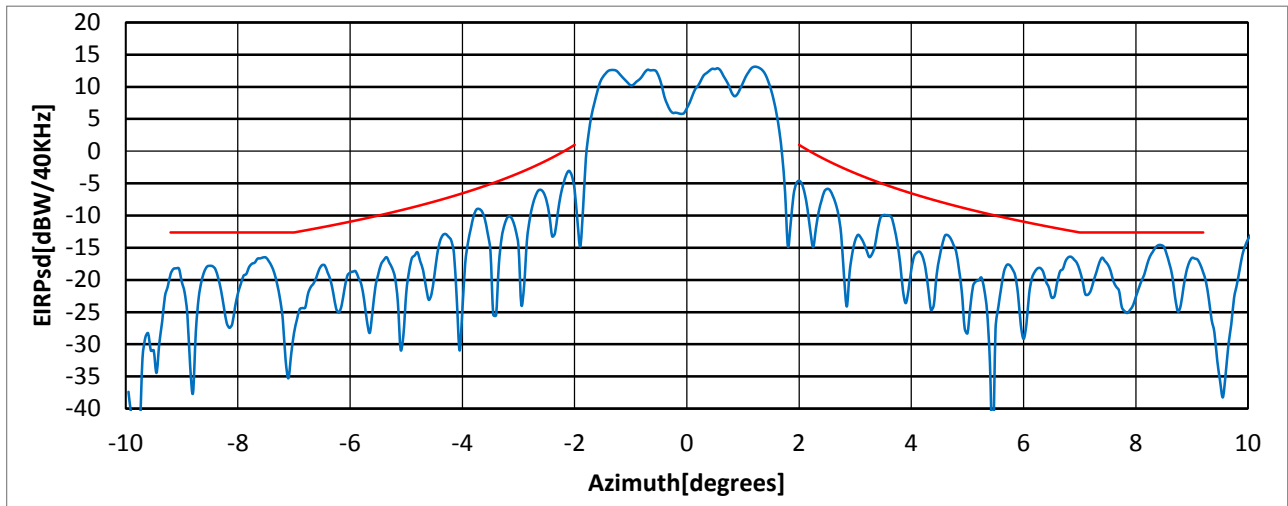
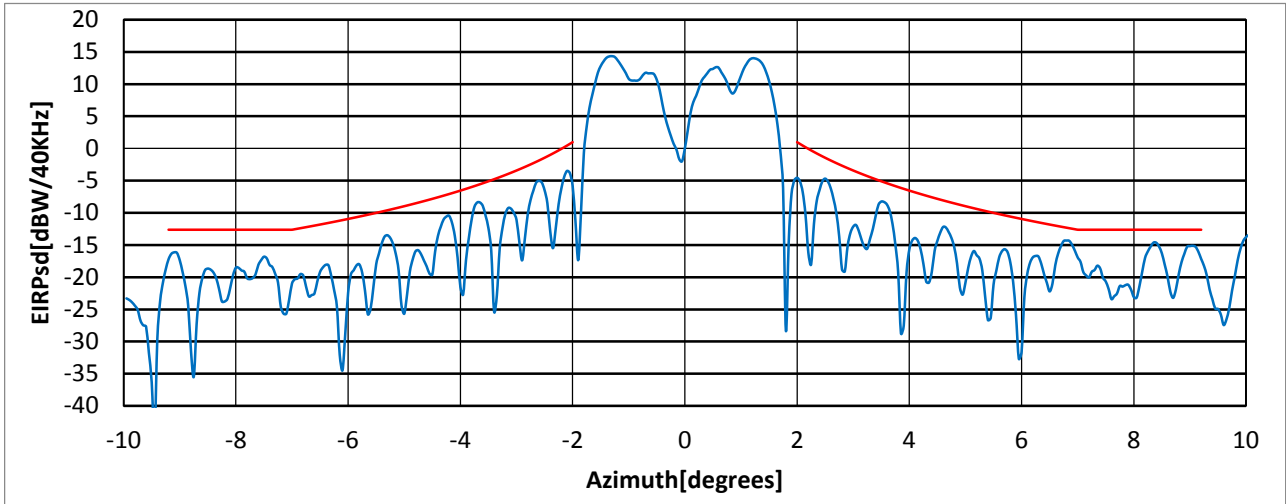


Figure 45 - Plot for 30.0 GHz



2.2 Receive plots (compliance with FCC §25.209)

2.2.1 Plots for Azimuth Co-Pol (Range: {-180 : 180} deg)

Figure 46 - Plot for 19.7 GHz

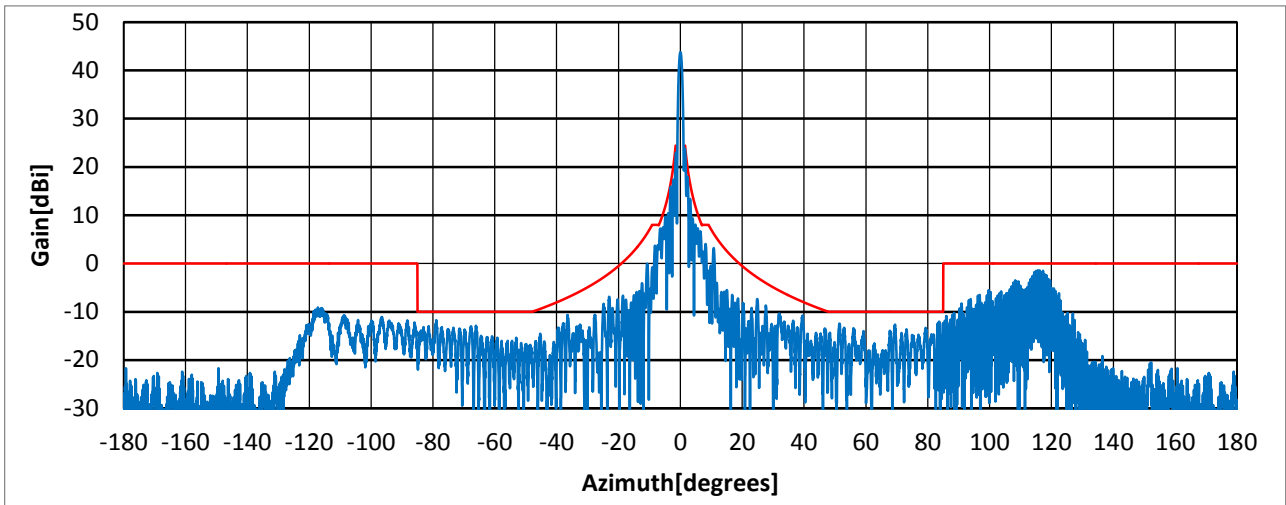


Figure 47 - Plot for 19.95 GHz

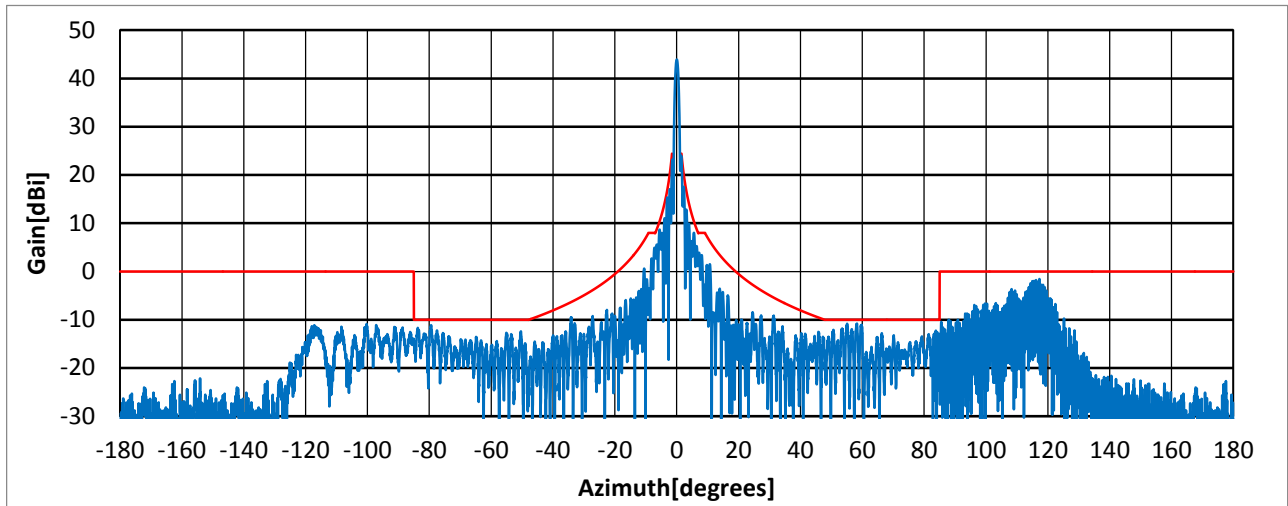
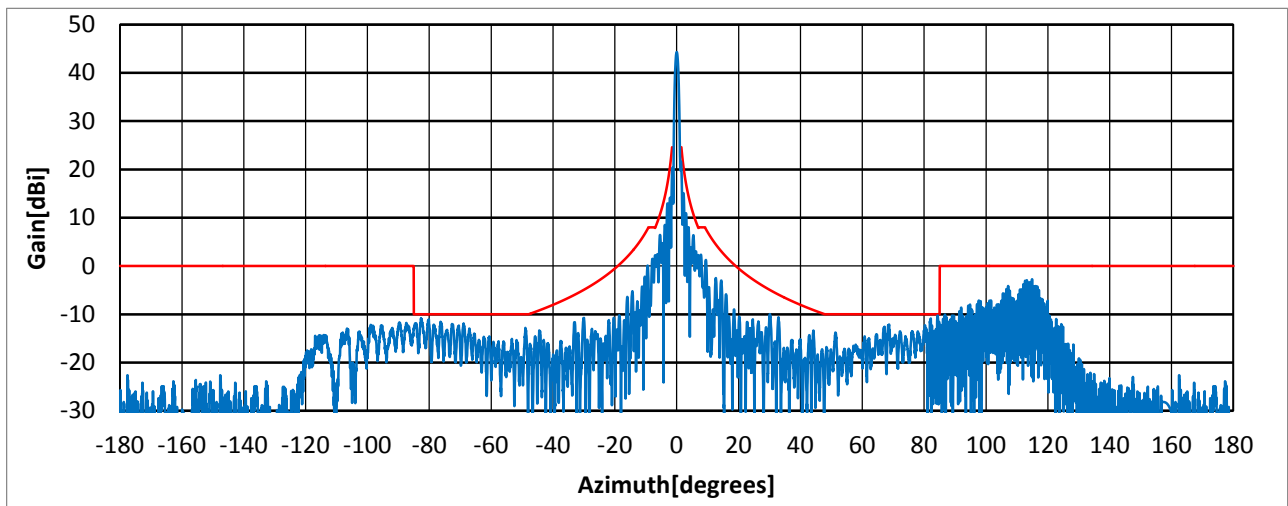


Figure 48 - Plot for 20.2 GHz



2.2.2 Plots for Azimuth Co-Pol (Range: {-10 : 10} deg)

Figure 49 - Plot for 19.7 GHz

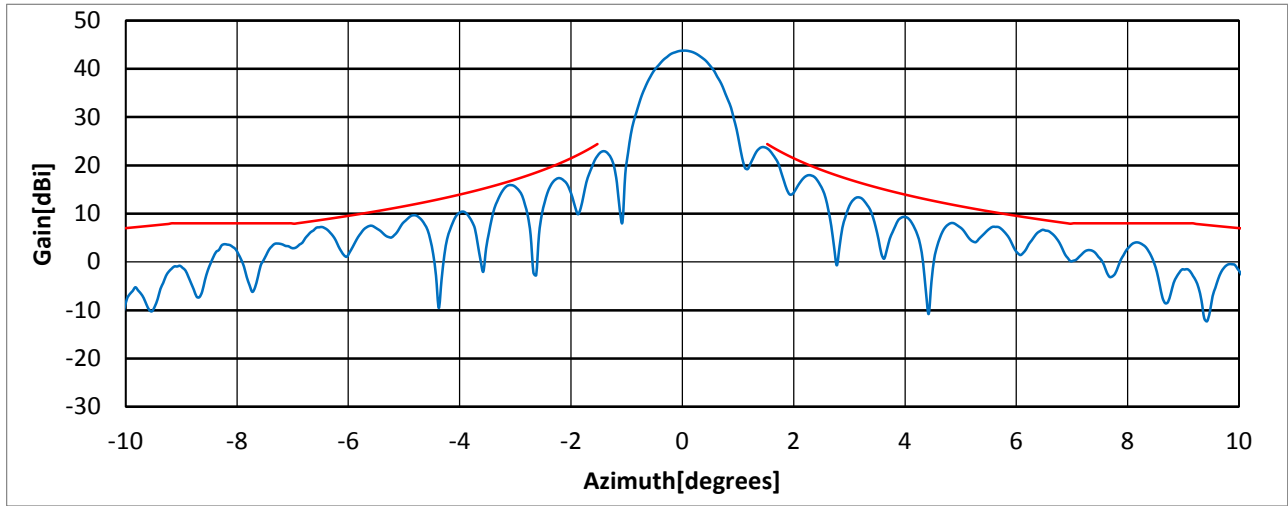


Figure 50 - Plot for 19.95 GHz

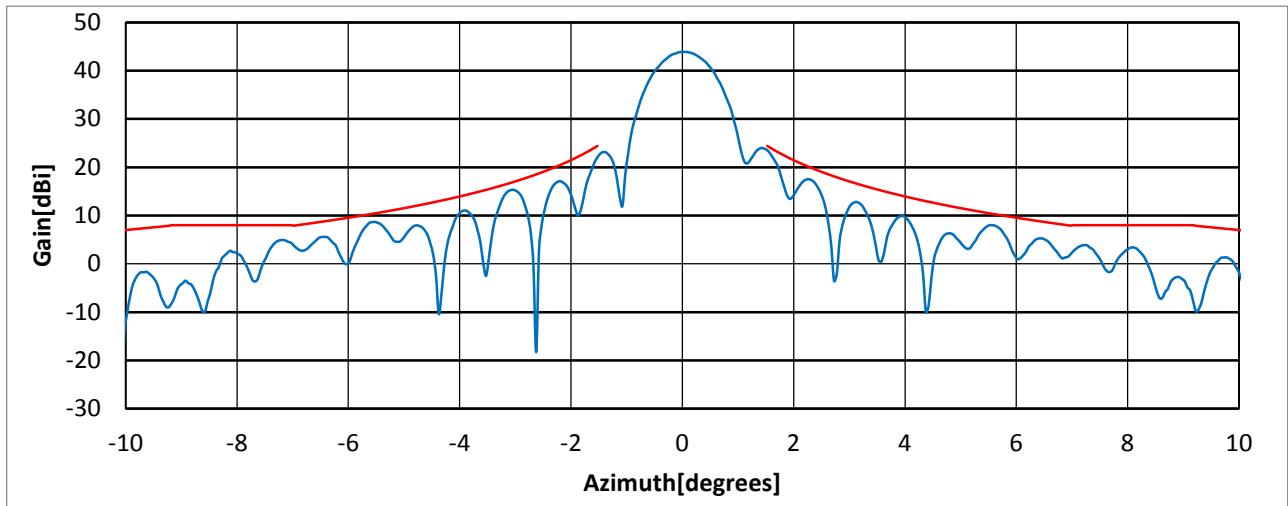
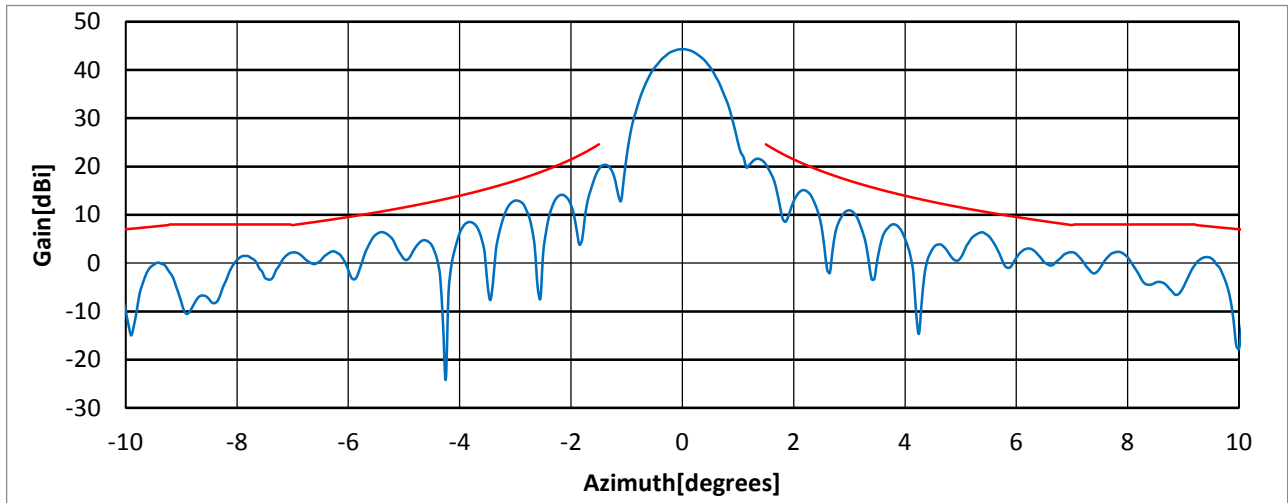


Figure 51 - Plot for 20.2 GHz



2.2.3 Plots for Elevation Co-Pol (Range: {0 : 30} deg)

Figure 52 - Plot for 19.7 GHz

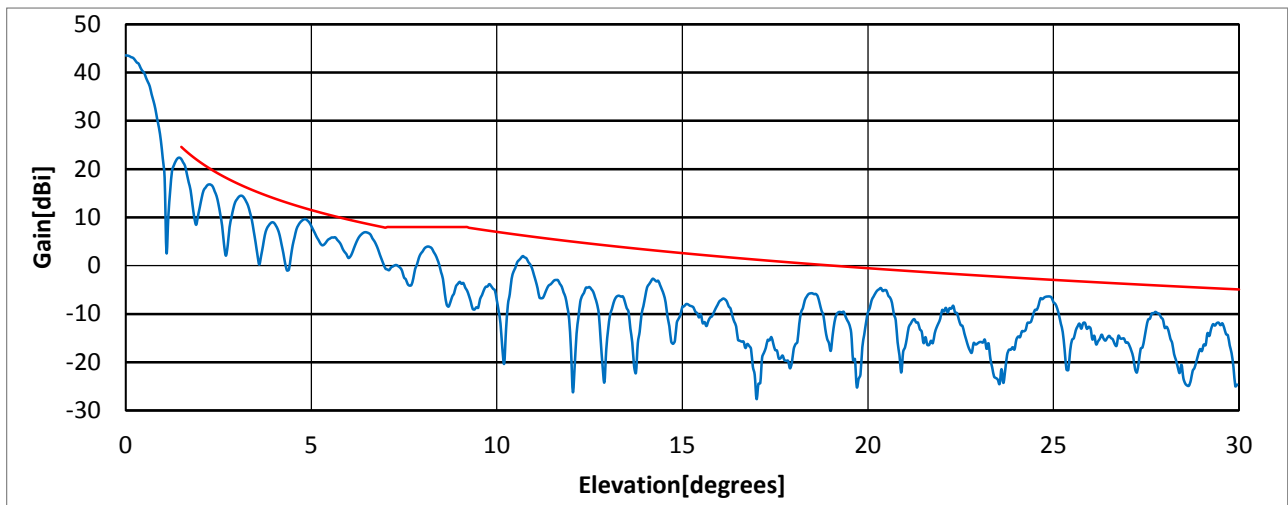


Figure 53 - Plot for 19.95 GHz

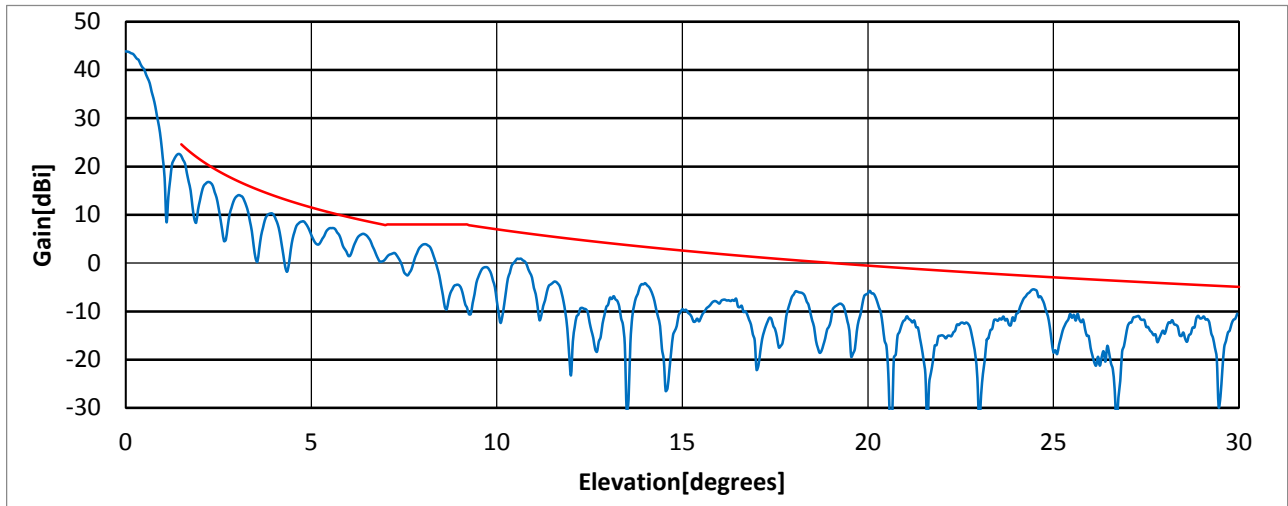
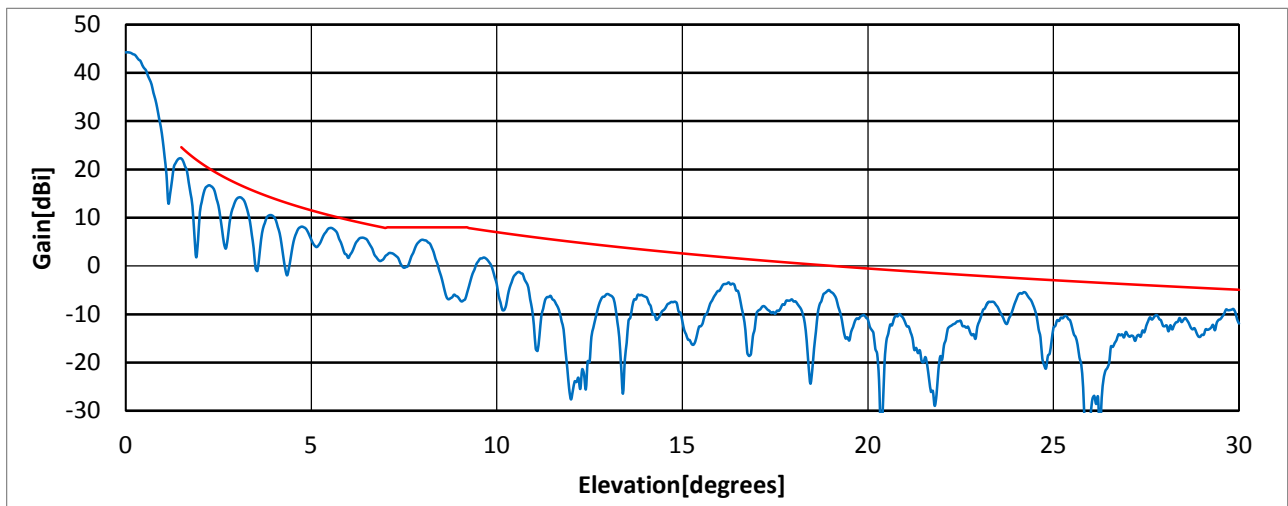


Figure 54 - Plot for 20.2 GHz



2.2.4 Plots for Azimuth X-Pol (Range: {-10 : 10} deg)

Figure 55 - Plot for 19.7 GHz

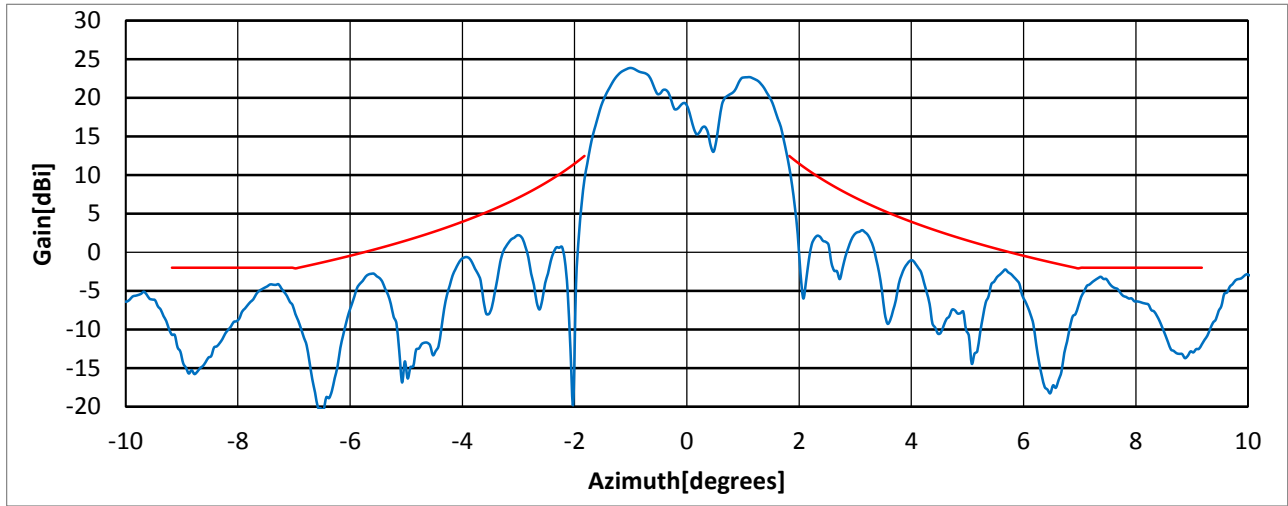


Figure 56 - Plot for 19.95 GHz

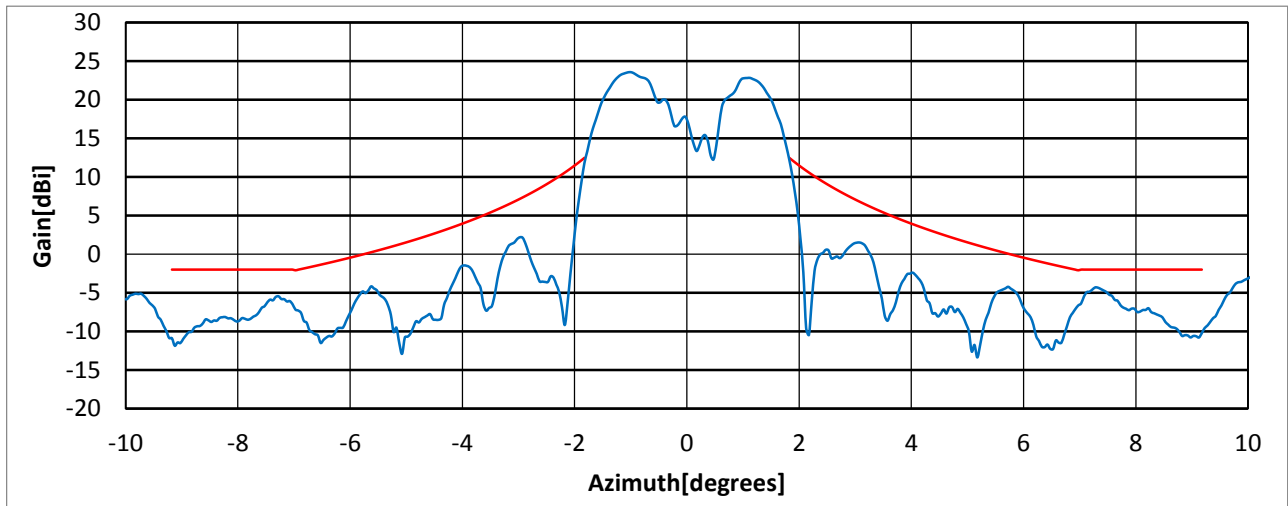
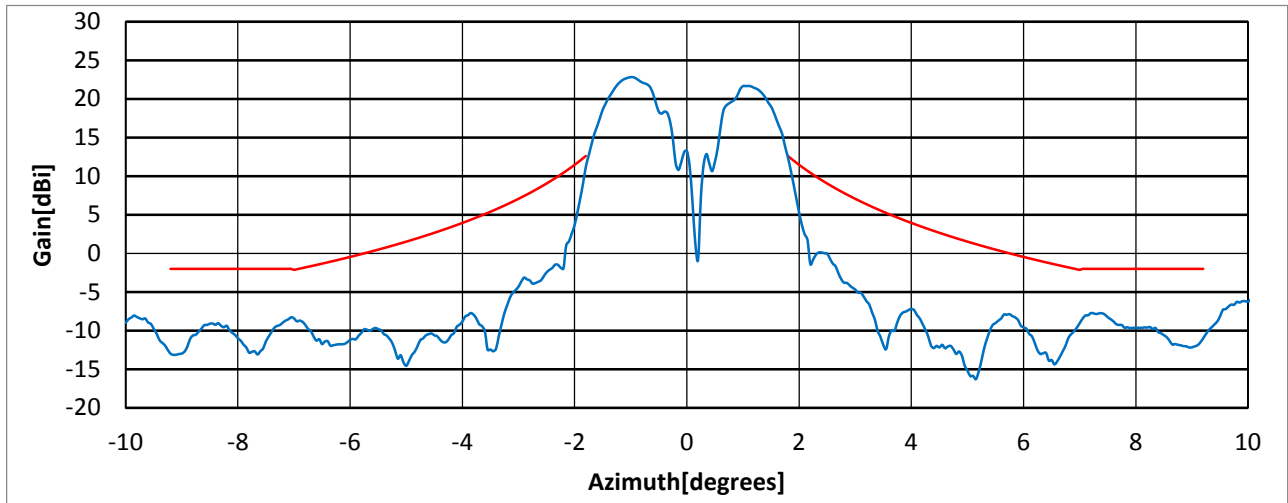


Figure 57 - Plot for 20.2 GHz



2.2.5 Plots for Elevation X-Pol (Range: {-10 : 10} deg)

Figure 58 - Plot for 19.7 GHz

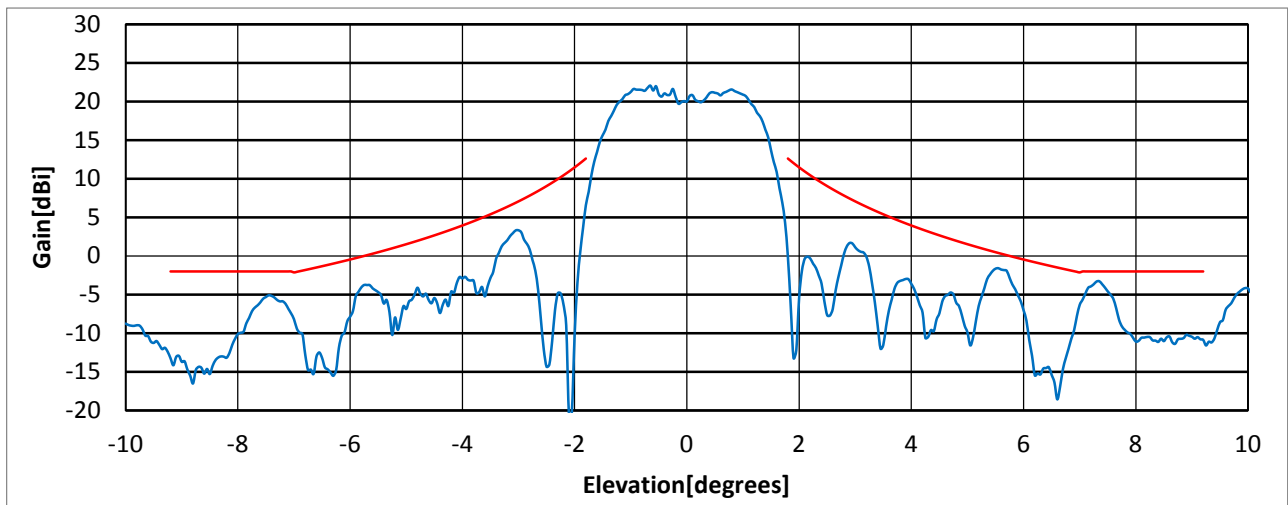


Figure 59 - Plot for 19.95 GHz

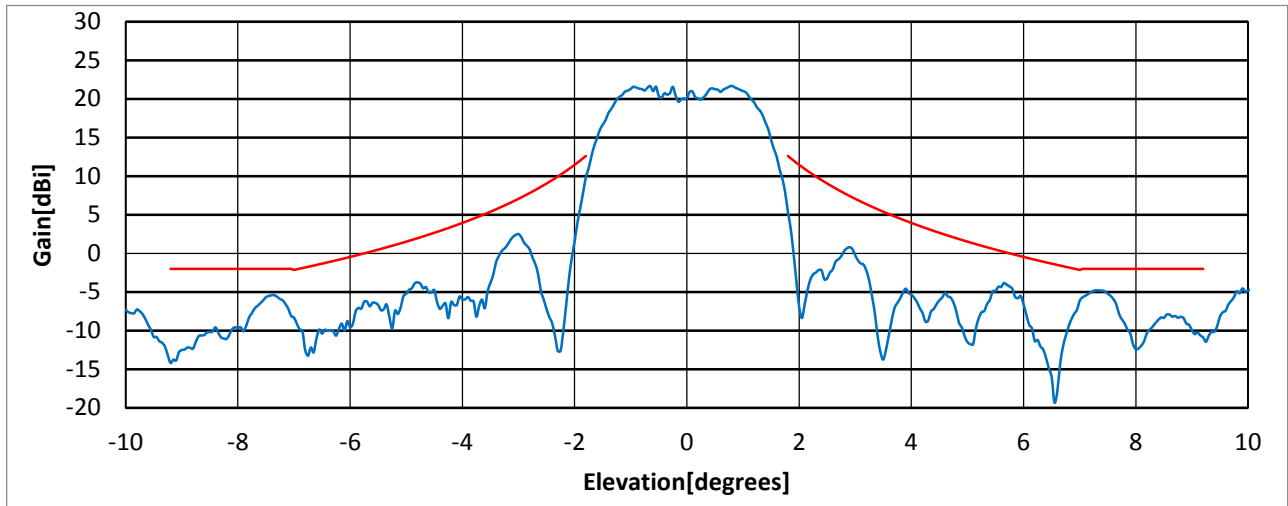


Figure 60 - Plot for 20.2 GHz

