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Antenna Test & Measurement Report - Project – HDT602

A) Measurement Setup

Antenna Measurement Using the NSI Near Field Measurement System

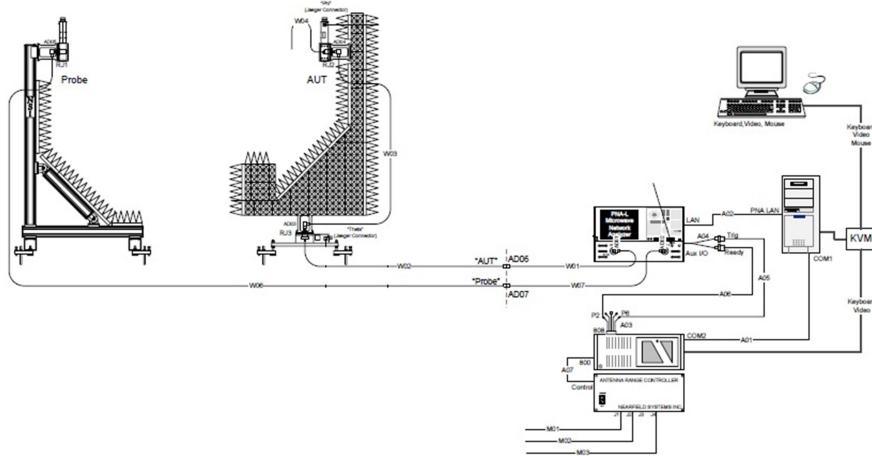


Fig.1 NSI-700 Antenna Measurement Setup



Fig. 2 Mounting of Phantom Head inside the Anechoic Chamber for HDT602 RX

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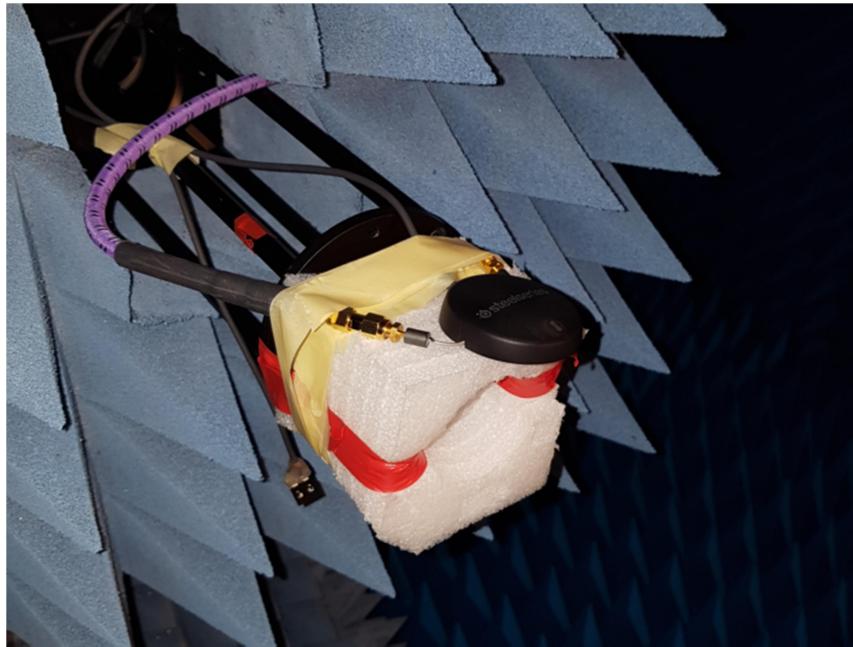


Fig 3, HDT602 TX Test Set up Photo inside anechoic chamber.

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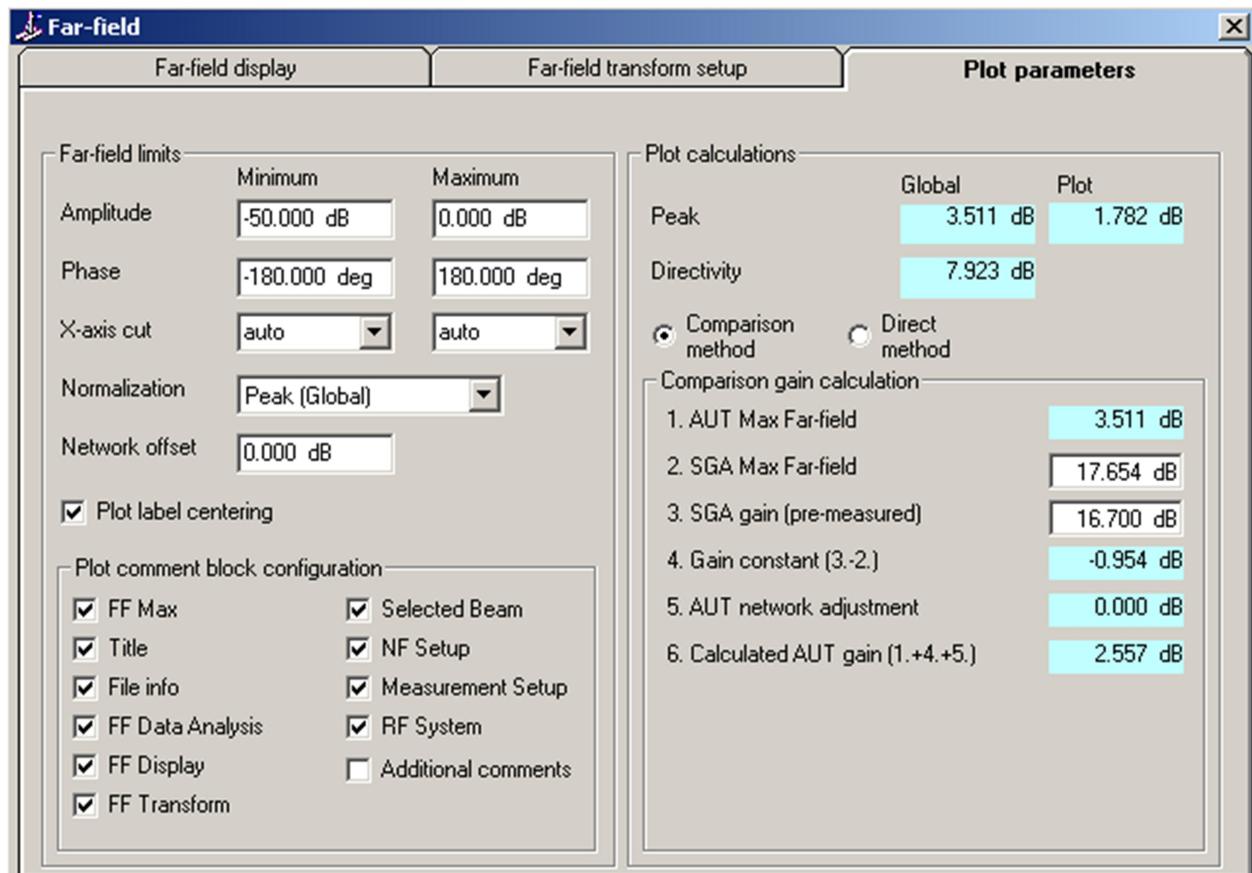
B) Measurement Results

Antenna Gain Measurement:

- | | |
|---|----------------|
| 1. HDT602 RX Antenna ANT101 with Phantom Head | Gain = 2.557dB |
| 2. HDT602 RX Antenna ANT102 with Phantom Head | Gain = 4.738dB |
| 3. HDT602 TX Antenna ANT1 | Gain = 4.423dB |
| 4. HDT602 TX Antenna ANT2 | Gain = 2.827dB |

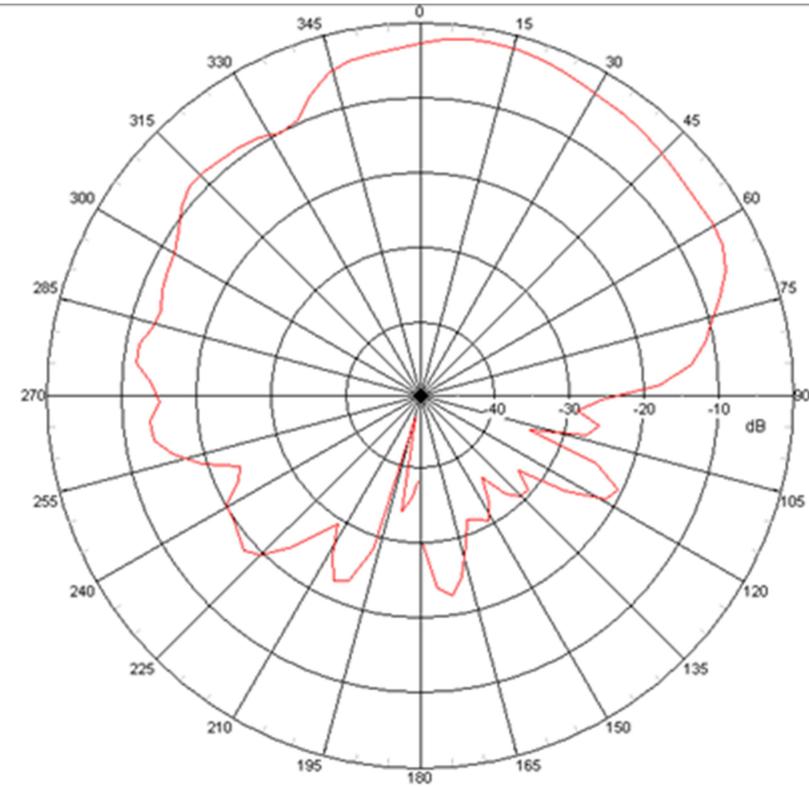
1. HDT602 RX with Phantom Head – ANT101

Far-Field Gain Measurement

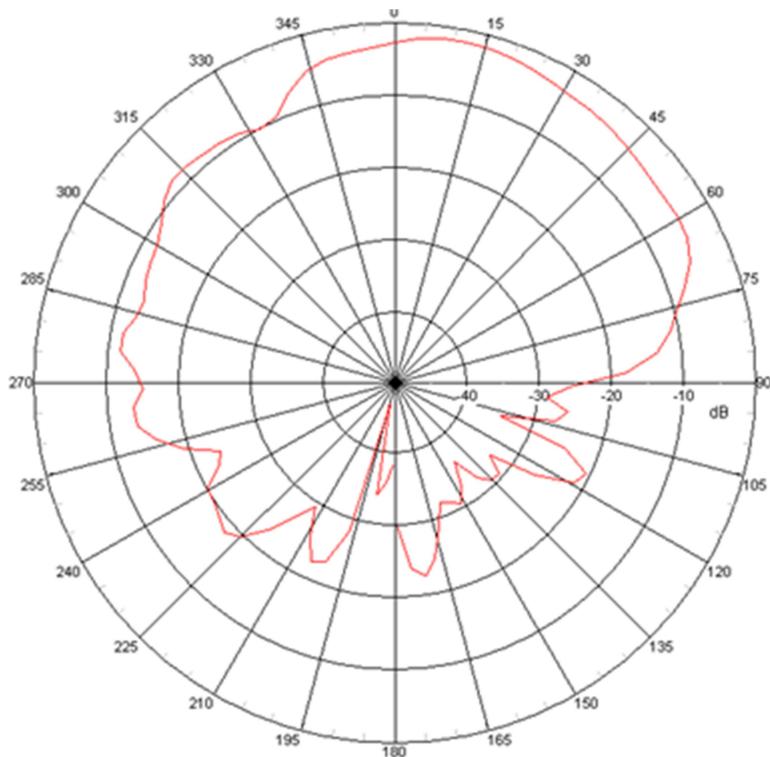


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Horizontal Cut (Azimuth Plot) @ 2.401GHz

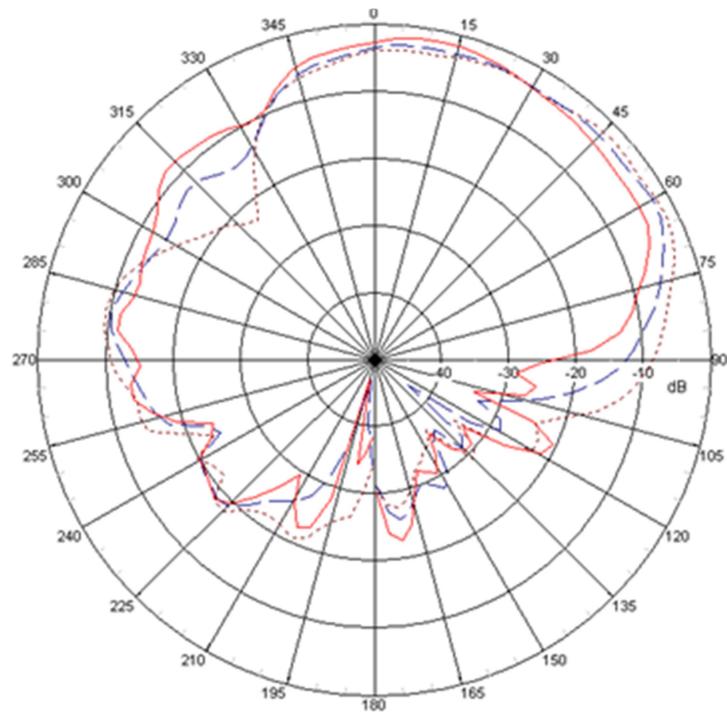


Vertical Cut (Elevation Plot) @ 2.401GHz

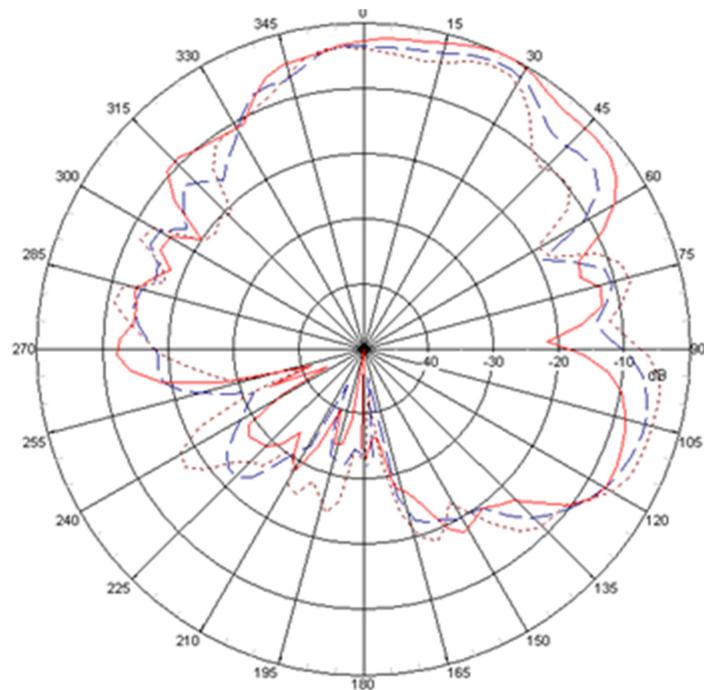


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Horizontal Cut (Azimuth Plot) @ 2.401GHz, 2.44GHz & 2.479GHz

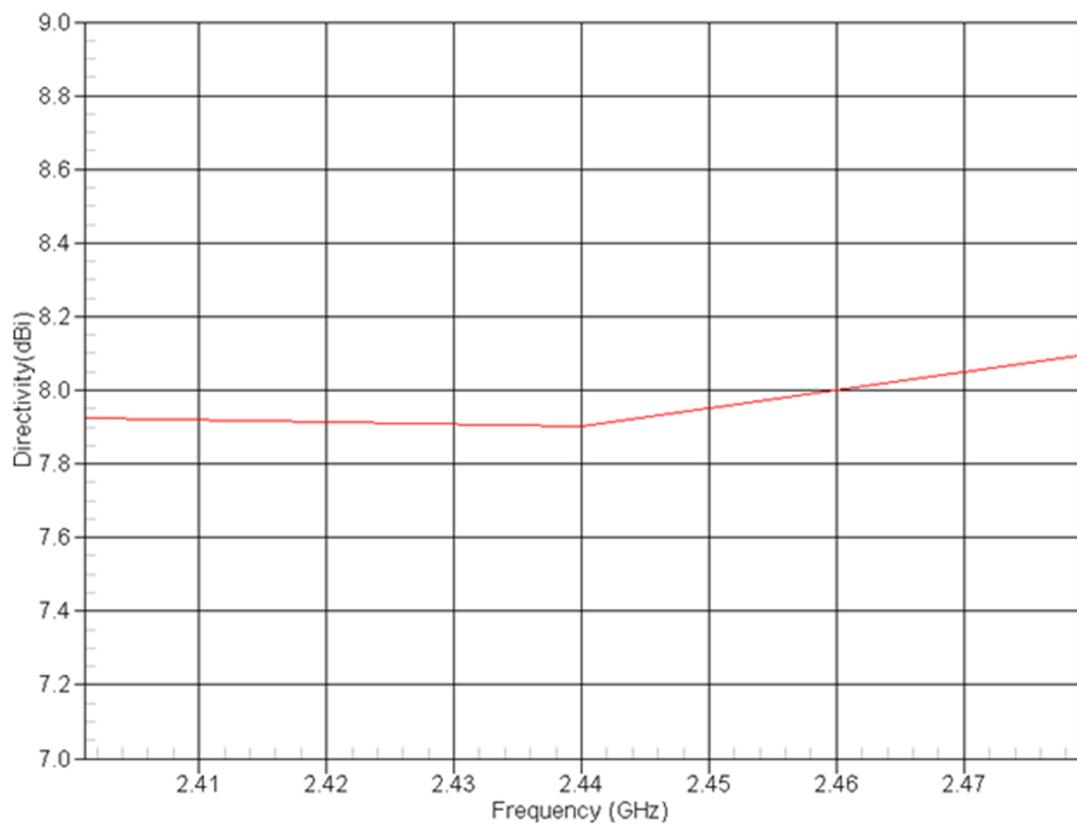


Vertical Cut (Elevation Plot) @ 2.401GHz, 2.44GHz & 2.479GHz



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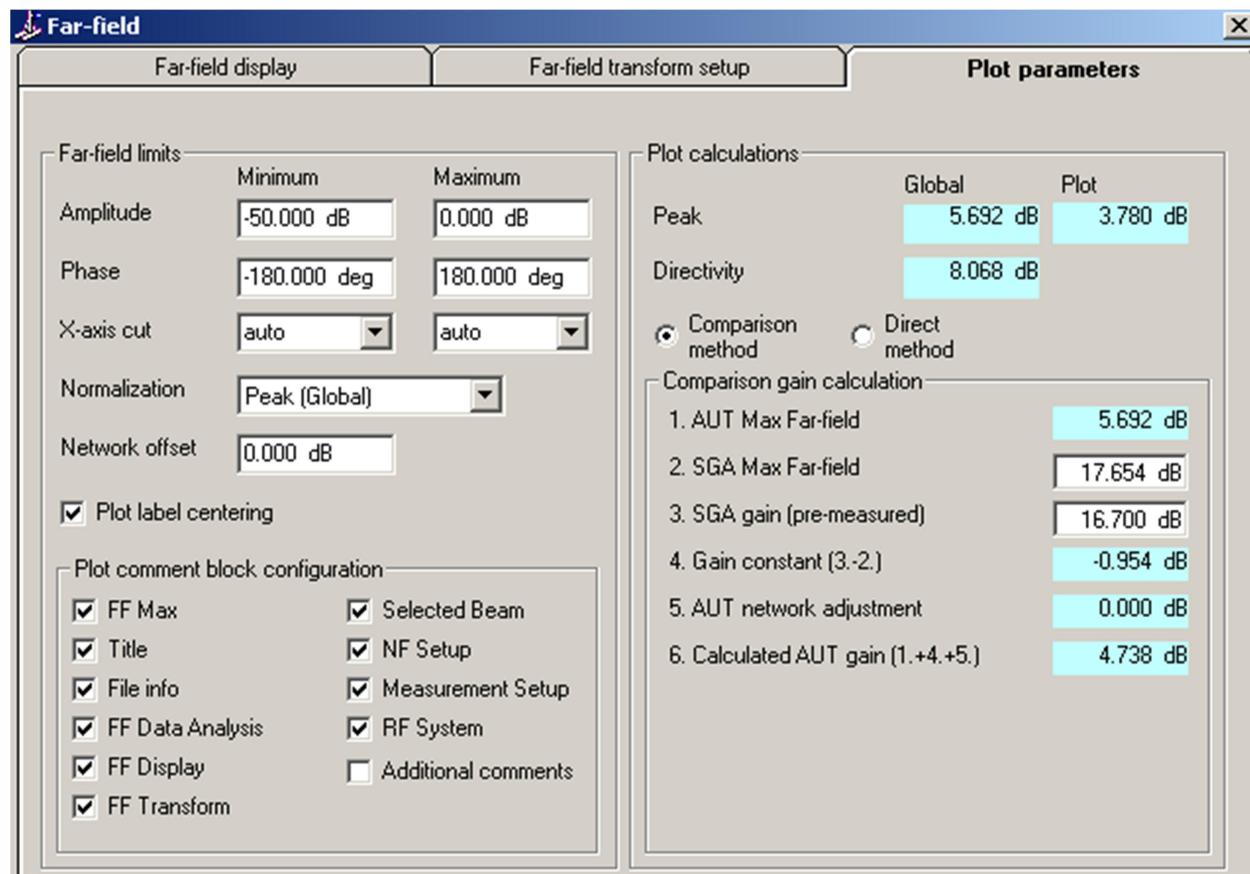
Directivity



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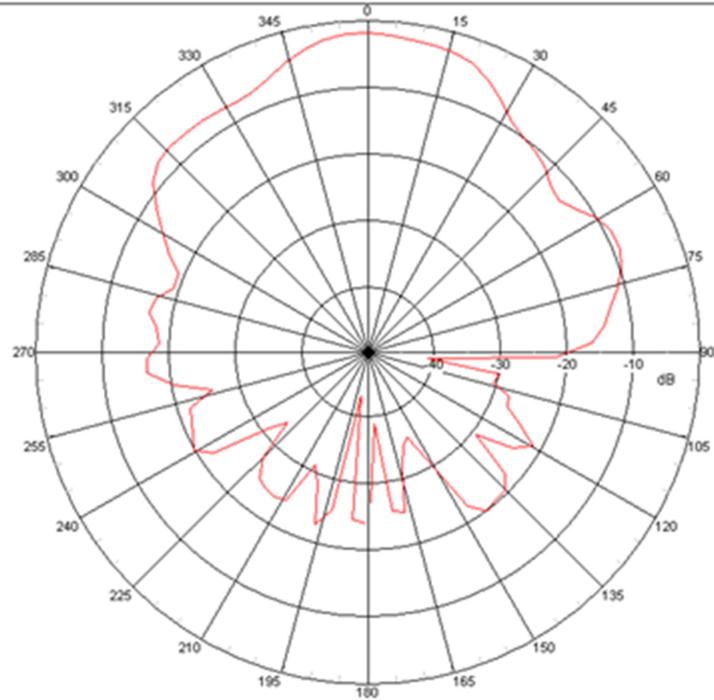
2. HDT602 RX with Phantom Head – ANT102

Far-Field Gain Measurement

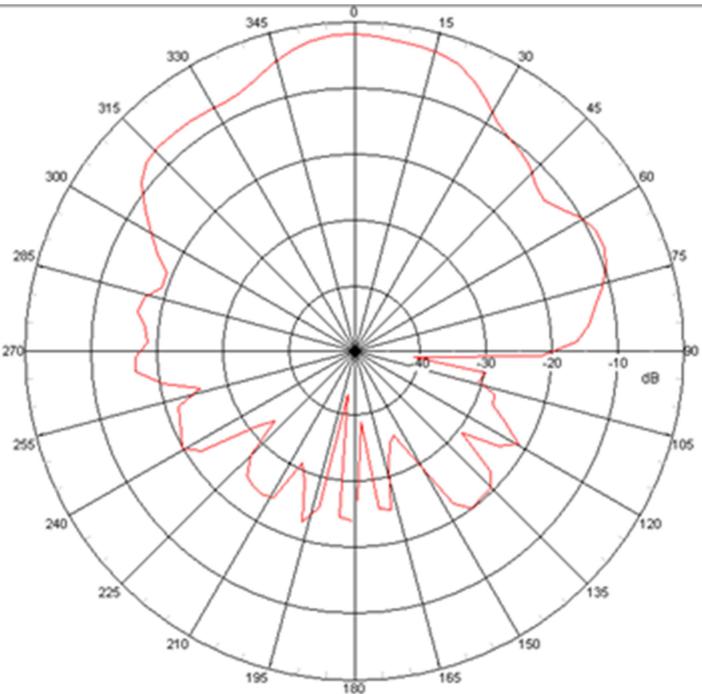


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Horizontal Cut (Azimuth Plot) @ 2.401GHz

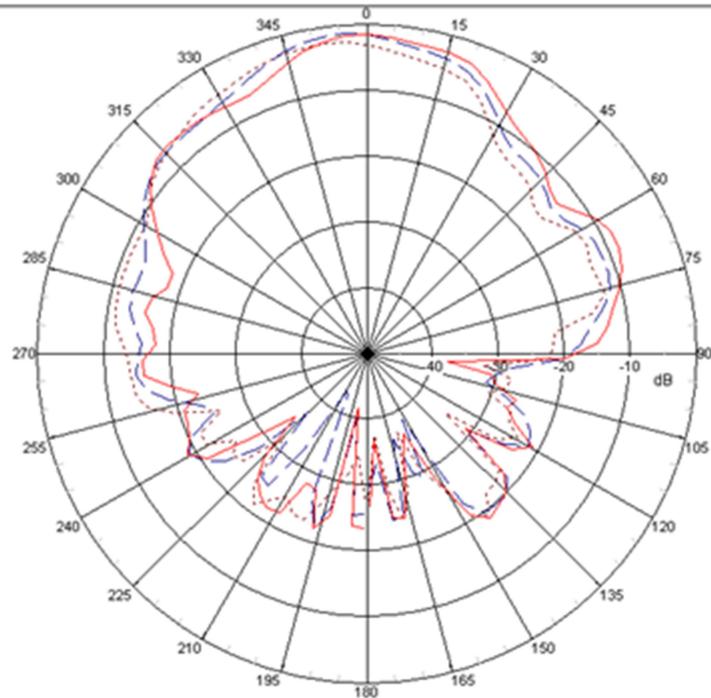


Vertical Cut (Elevation Plot) @ 2.401GHz

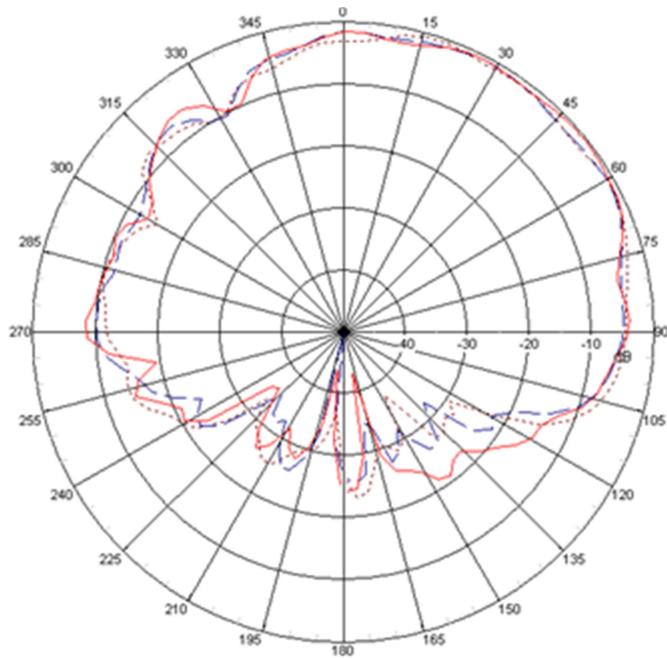


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Horizontal Cut (Azimuth Plot) @ 2.401GHz, 2.44GHz & 2.479GHz

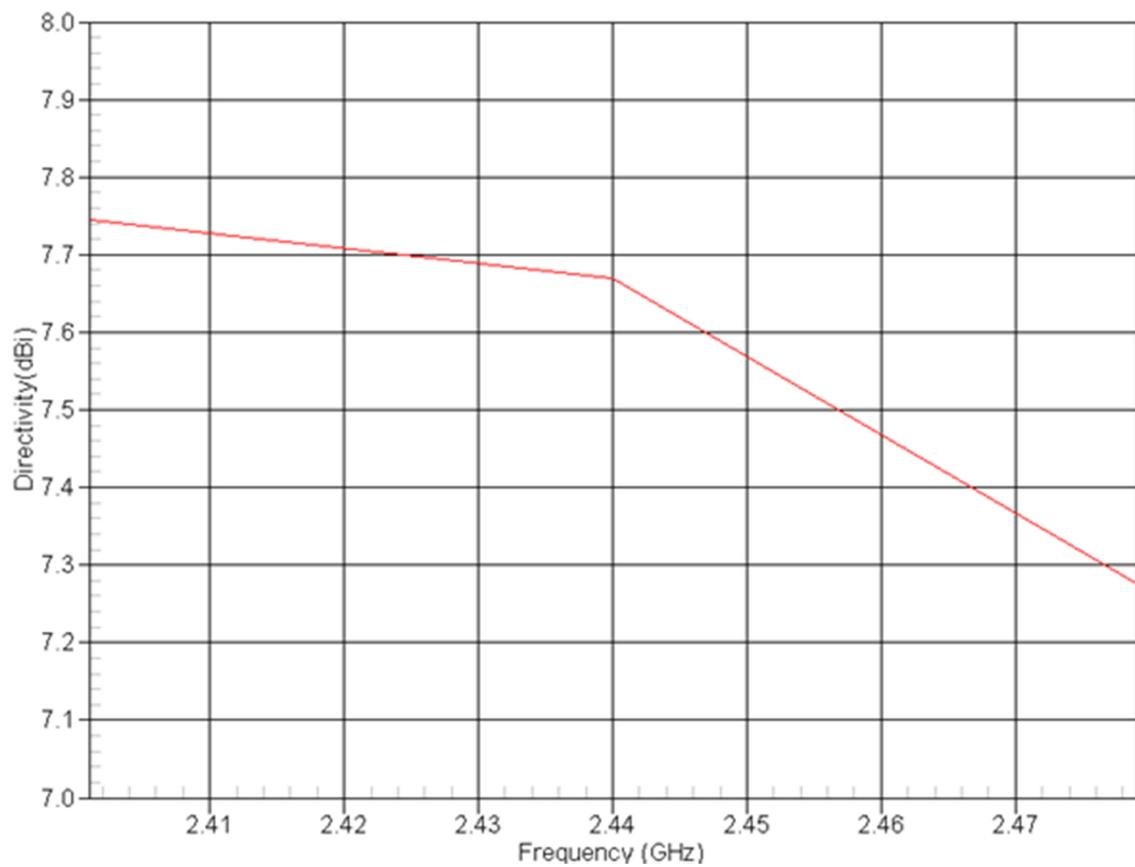


Vertical Cut (Elevation Plot) @ 2.401GHz, 2.44GHz & 2.479GHz



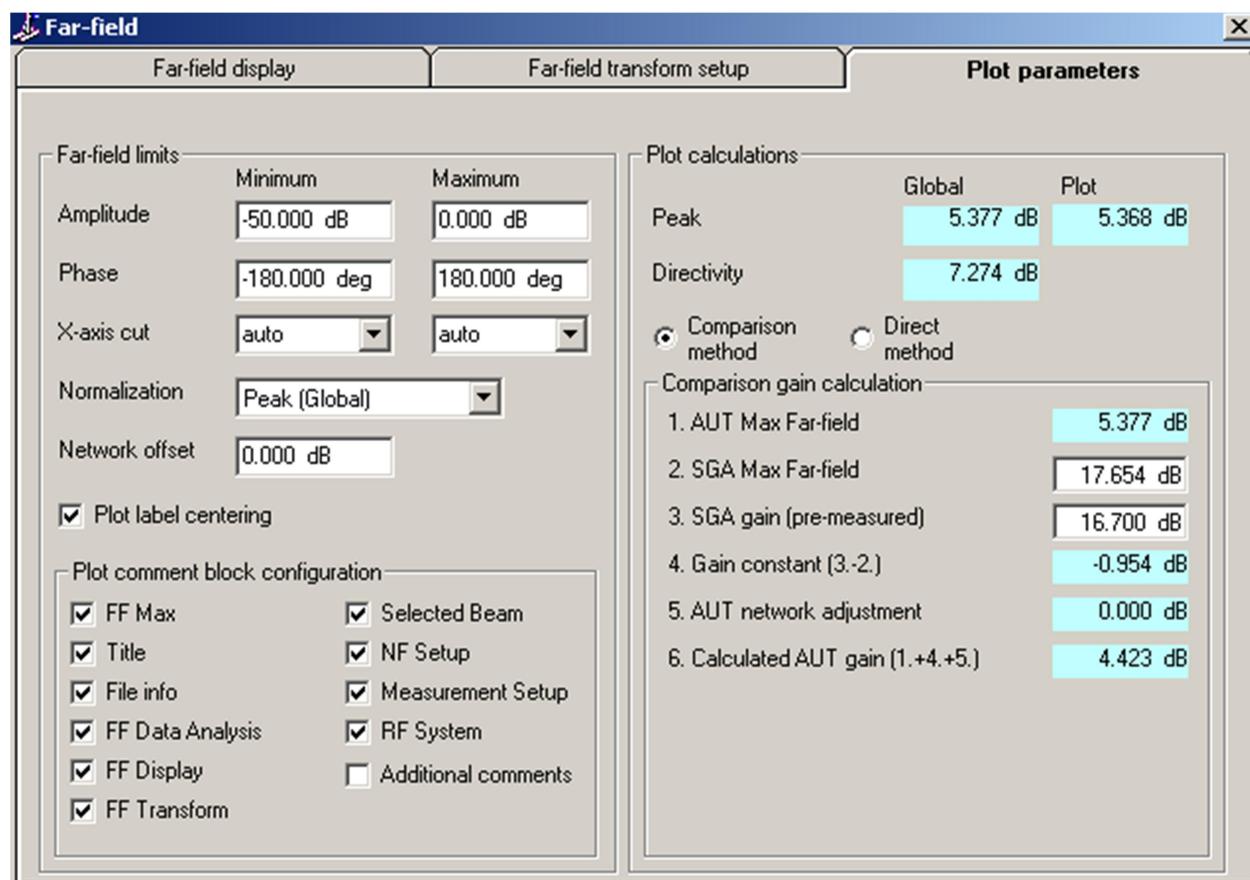
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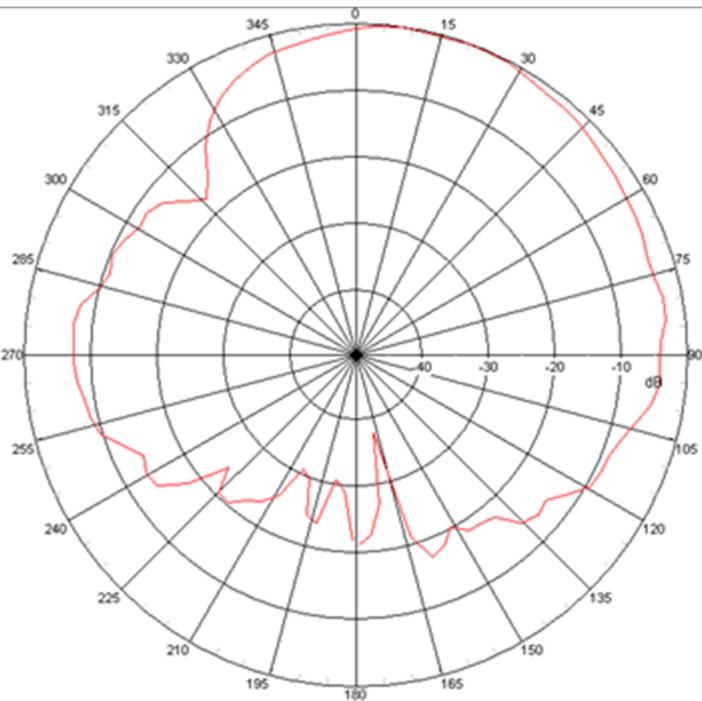
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3. HDT602 TX Antenna 1 – ANT1

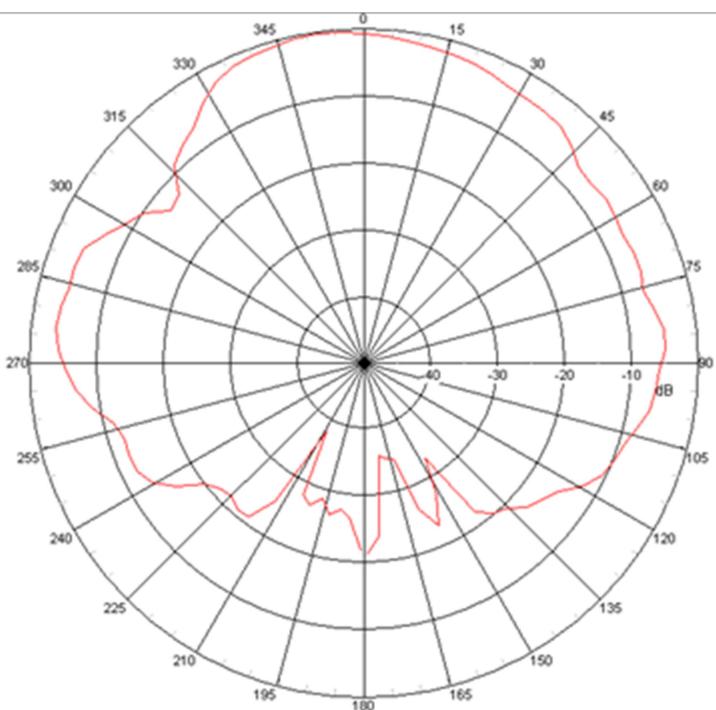


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Horizontal Cut (Azimuth Plot) @ 2.401GHz

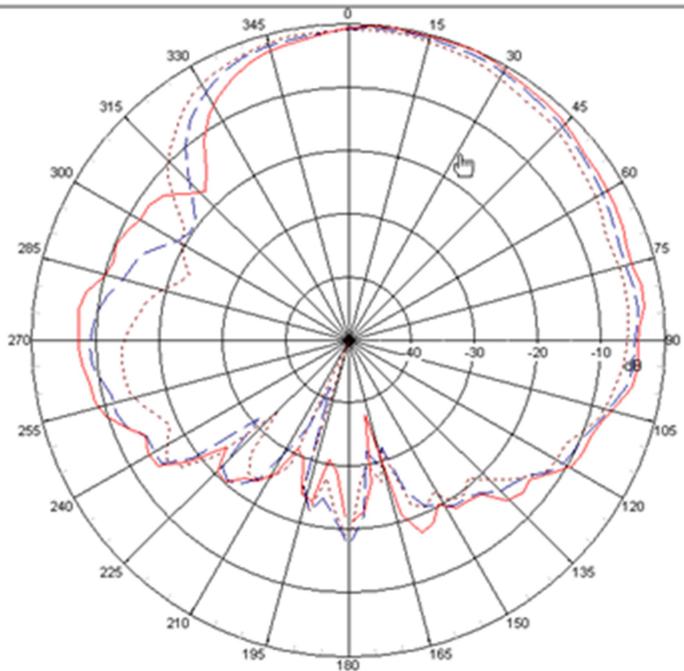


Vertical Cut (Elevation Plot) @ 2.401GHz

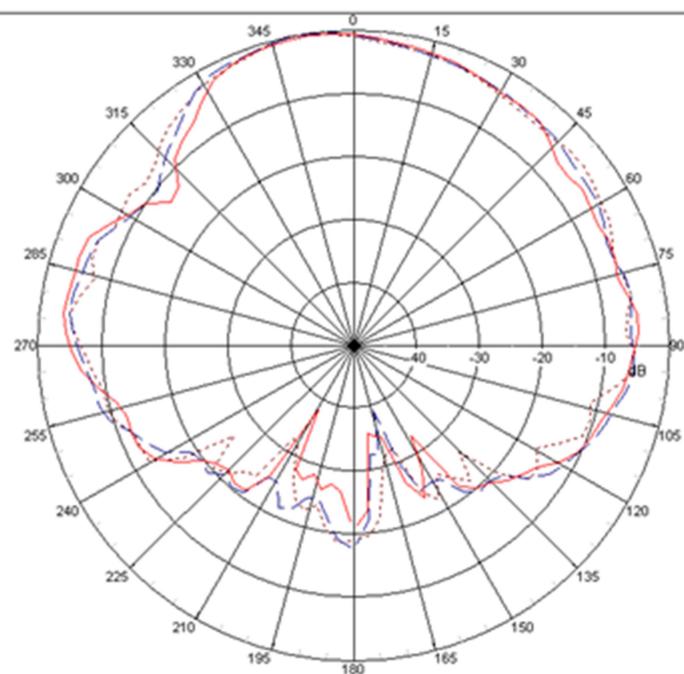


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Horizontal Cut (Azimuth Plot) @ 2.401GHz, 2.44GHz & 2.479GHz

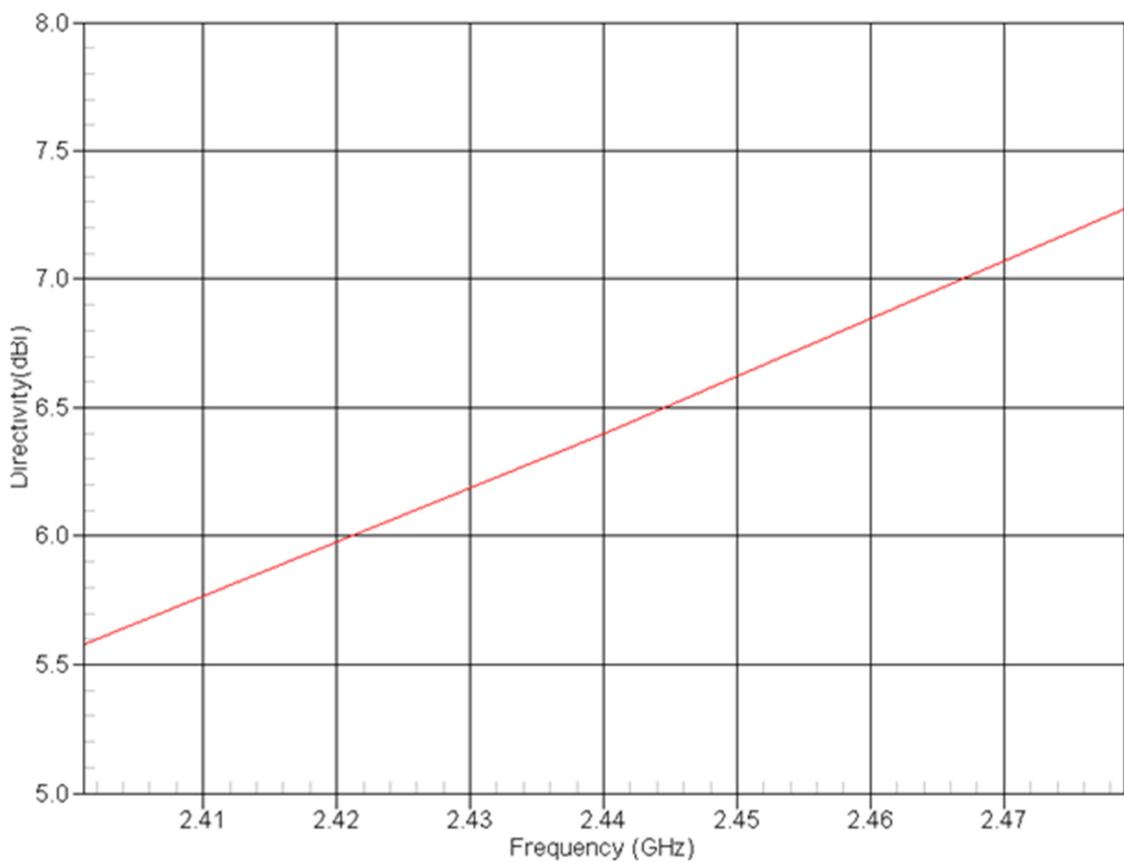


Vertical Cut (Elevation Plot) @ 2.401GHz, 2.44GHz & 2.479GHz



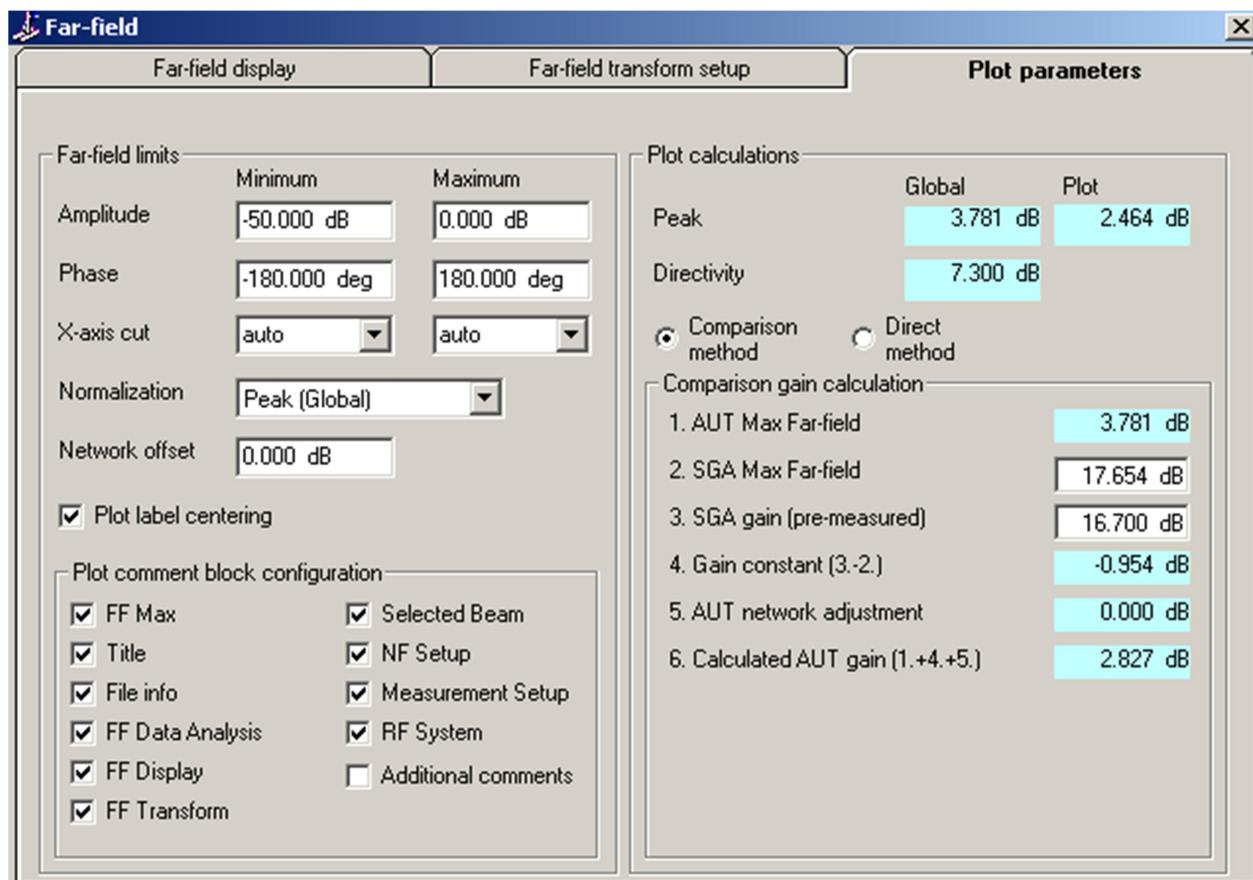
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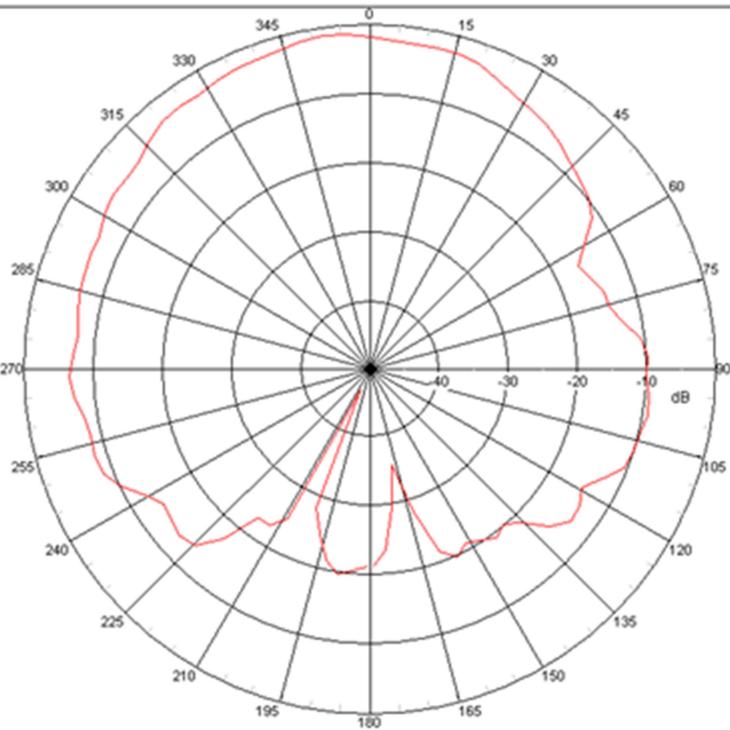
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4. HDT602 TX Antenna 2 – ANT2

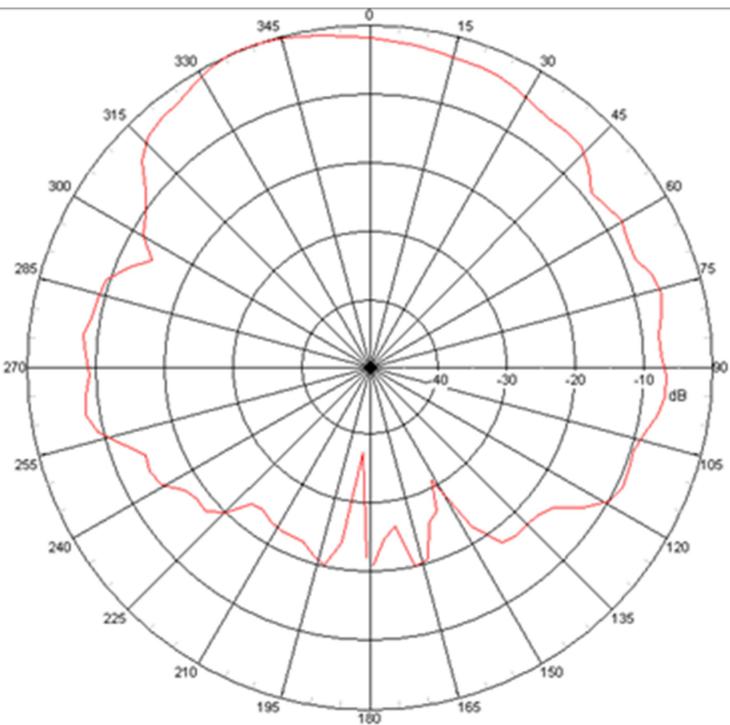


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Horizontal Cut (Azimuth Plot) @ 2.401GHz

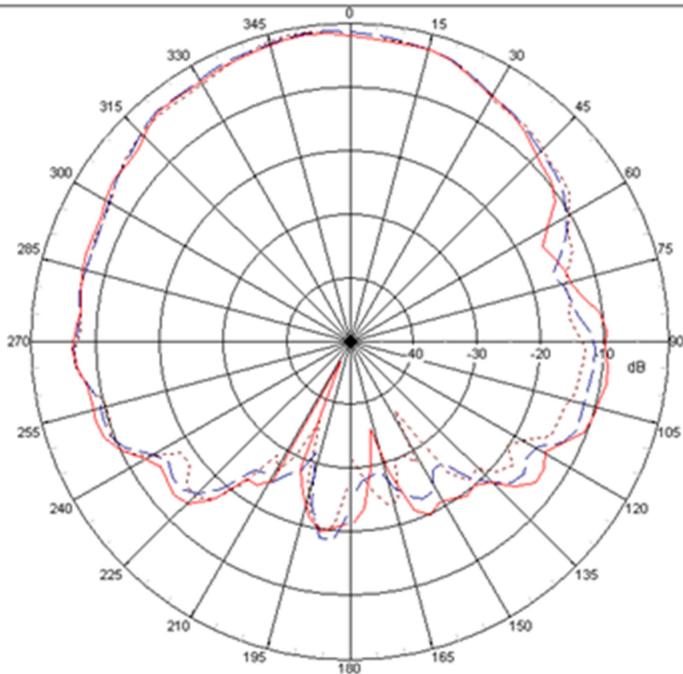


Vertical Cut (Elevation Plot) @ 2.401GHz

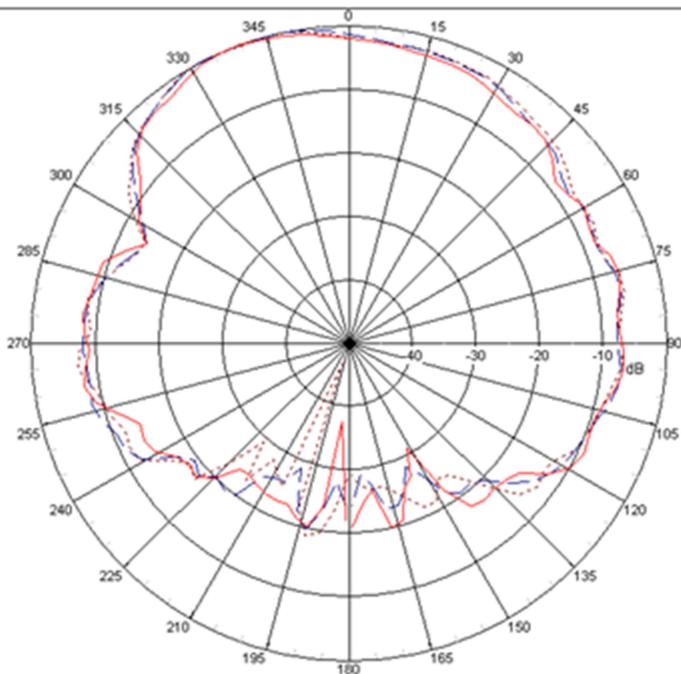


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Vertical Cut (Elevation Plot) @ 2.401GHz, 2.44GHz & 2.479GHz



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