Measurement Report

Project: Innogy

Device: Innogy

Date: 23.02.2018

DUT Comment: Accu 3 - B2 Box 08

| | max. Gain (dBi) | | | |
|-----------------|-----------------|---------------|--------|------------|
| Frequency (MHz) | $G(E^{\Theta})$ | $G(E^{\Phi})$ | G(E) | η (%) |
| 2400.0 | -0.8 | 4.0 | 4.1 | 49.2 |
| 2421.0 | -0.6 | 3.8 | 3.9 | 50.6 |
| 2442.0 | -0.5 | 3.8 | 4.1 | 52.3 |
| 2463.0 | 0.1 | 4.2 | 4.3 | 54.5 |
| 2484.0 | 0.4 | 4.4 | 4.6 | 55.8 |

Table 1: Measurement Result Summary



Frequency: 2400000000 Hz

Efficiency: $49.2\,\%$

max. Gain (Θ**):** -0.8 dBi at (Θ=125.0 °, Φ=-25.0 °)

max. Gain (Φ): 4.0 dBi at (Θ=65.0°, Φ=-75.0°)

max. Gain (abs): 4.1 dBi at (Θ =65.0 °, Φ =-75.0 °)



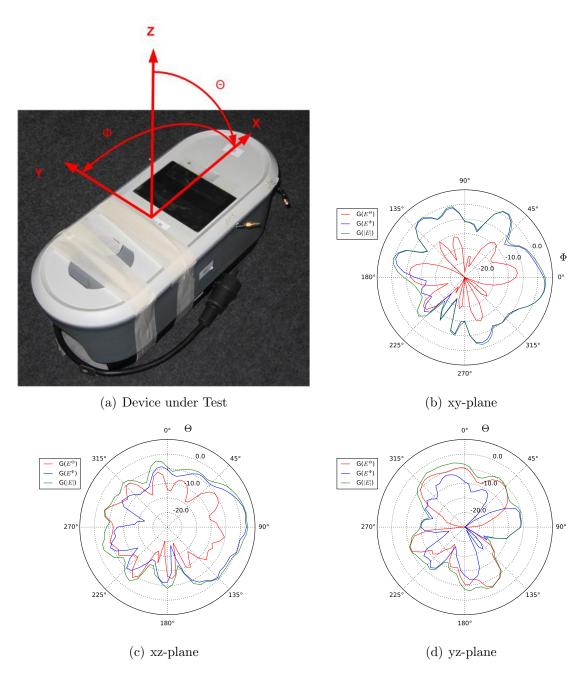


Figure 1: Antenna Gain Measurement Results

Frequency: 2421000000 Hz

Efficiency: 50.6%

max. Gain (Θ): -0.6 dBi at (Θ=125.0°, Φ=-25.0°)

max. Gain (Φ): $3.8 \, \text{dBi at } (\Theta = 65.0 \, ^{\circ}, \, \Phi = -75.0 \, ^{\circ})$

max. Gain (abs): 3.9 dBi at (Θ=65.0°, Φ=-75.0°)



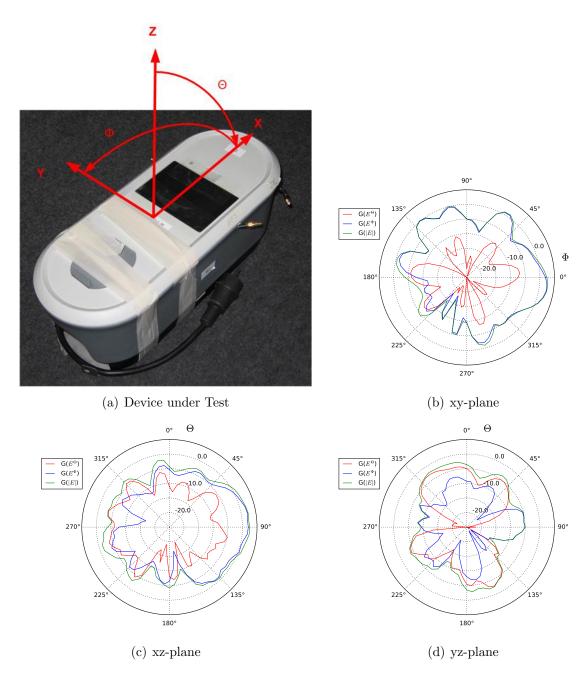


Figure 2: Antenna Gain Measurement Results

Frequency: 2442000000 Hz

Efficiency: 52.3%

max. Gain (Θ): -0.5 dBi at (Θ=125.0°, Φ=-25.0°)

max. Gain (Φ): $3.8 \, \text{dBi at } (\Theta = 65.0 \, ^{\circ}, \, \Phi = -75.0 \, ^{\circ})$

max. Gain (abs): 4.1 dBi at (Θ=65.0°, Φ=-75.0°)



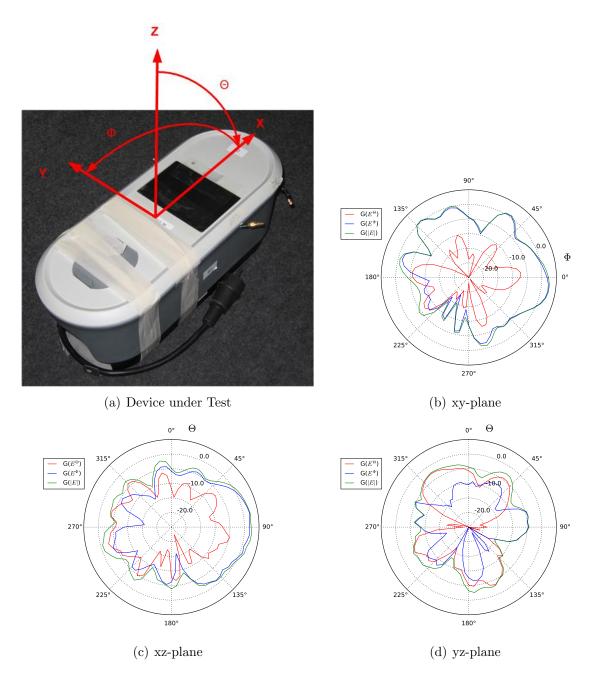


Figure 3: Antenna Gain Measurement Results

Frequency: 2463000000 Hz

Efficiency: 54.5%

max. Gain (Θ**):** 0.1 dBi at (Θ=125.0 °, Φ=-25.0 °)

max. Gain (Φ): 4.2 dBi at (Θ= 70.0° , Φ= -80.0°)

max. Gain (abs): 4.3 dBi at (Θ= 70.0° , Φ= -80.0°)



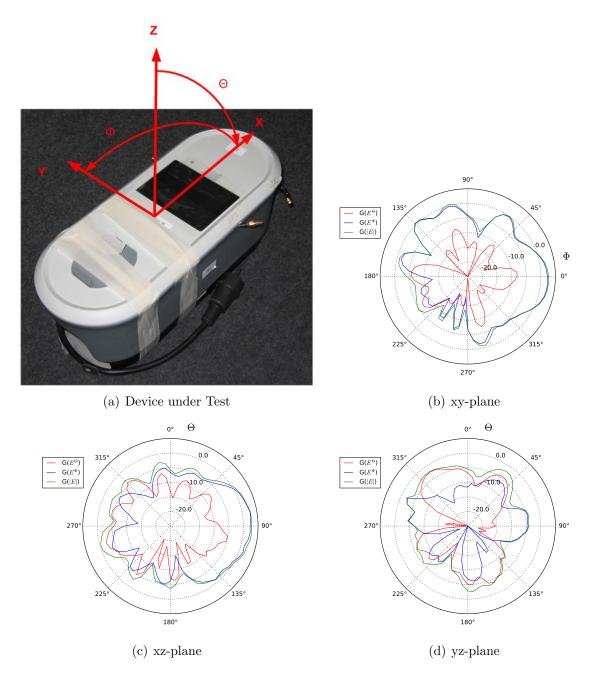


Figure 4: Antenna Gain Measurement Results

Frequency: 2484000000 Hz

Efficiency: 55.8%

max. Gain (Θ**):** 0.4 dBi at (Θ=125.0 °, Φ=-25.0 °)

max. Gain (Φ): 4.4 dBi at (Θ=70.0 °, Φ=-80.0 °)

max. Gain (abs): 4.6 dBi at (Θ=70.0°, Φ=-80.0°)



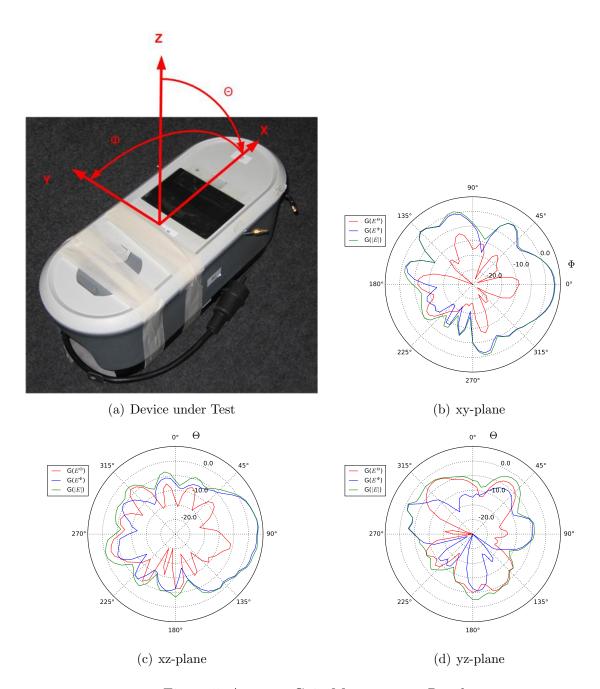


Figure 5: Antenna Gain Measurement Results

