

ANTENNA TEST REPORT

1 ANTENNA SPECIFICATION

Typical CoreTag antenna parameters with the enclosures are presented on Table 1.

Table 1 Antenna parameters.

Operating frequency	2.400GHz-2.484GHz	
Antenna type	Integral trace antenna	
Antenna gain (with enclosure)	Beam up	Beam down
	-1dBi	-2dBi
Polarization	Circular	
Return loss in CHW3121	15dB (as seen through CHW3121 front-end), beam up & beam down	
Front-to-back ratio	12dB (beam up) & 3dB (beam down)	

2 ANTENNA MEASUREMENTS

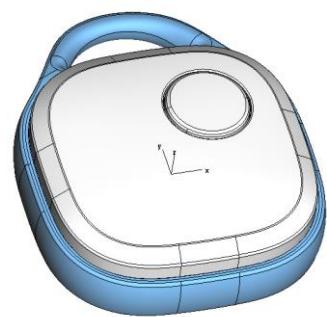
Figure 2 shows antenna realized-gain patterns at low, mid, and high channels (2.402GHz, 2.442GHz, and 2.480GHz, respectively) in beam up and beam down configurations. Z-axis is faxing up, x axis is horizontal, and y axis is vertical direction with respect to the fronts of the products (see Figure 1).



CHW-TAG4000 Asset Tag



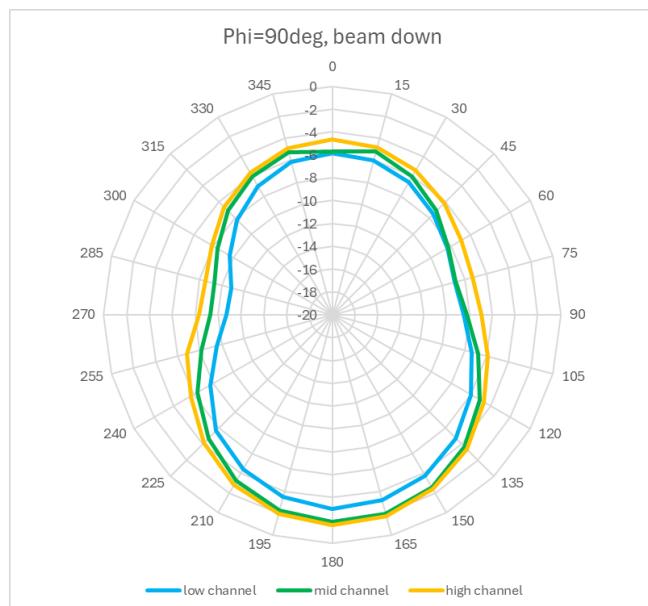
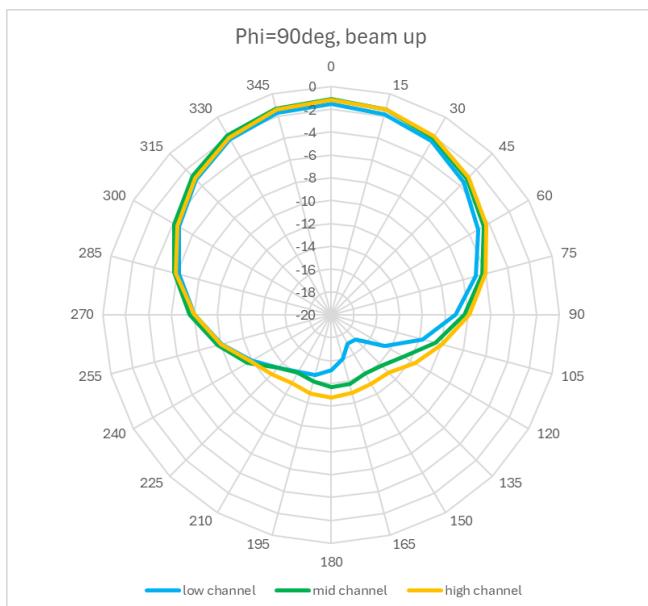
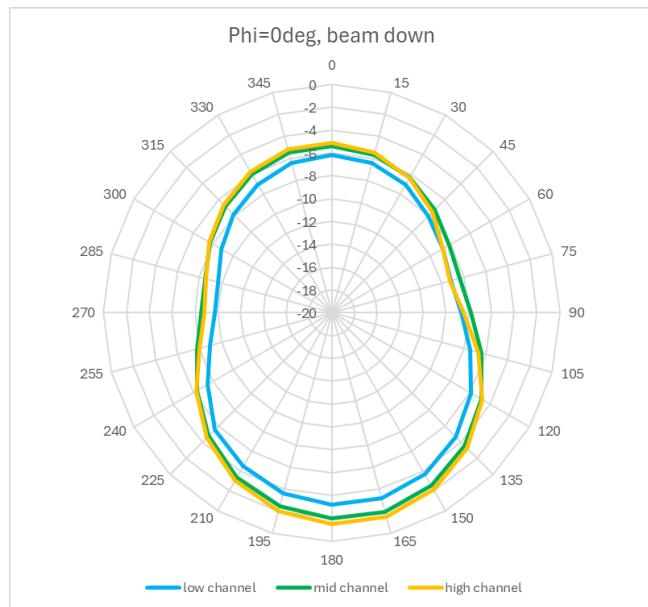
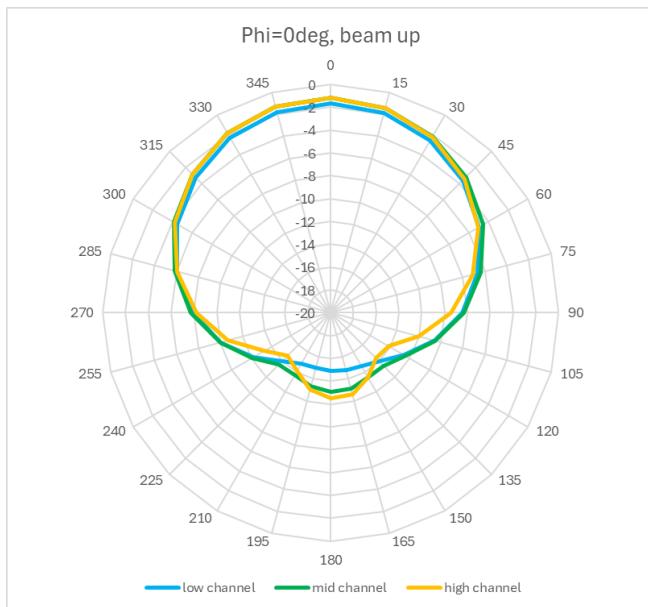
CHW-TAG4001 Wrist Tag



CHW-TAG4002 Lanyard Tag

Figure 1 CoreTag products.

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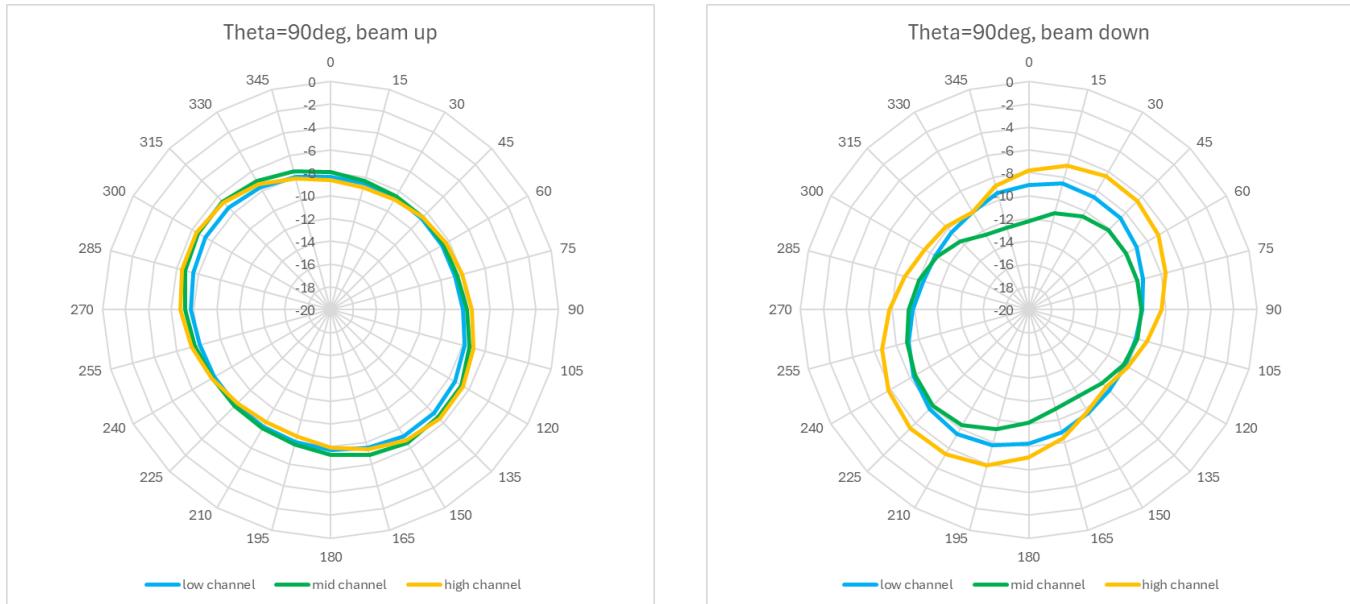


Figure 2 Antenna realized-gain patterns in dBi at low, middle, and high channels.

3 CHANGE HISTORY

PCB version	Description	Date
CHT245 0.2.0.1	Antenna measurement at CoreHW Antenna Lab2	2025-03-06

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