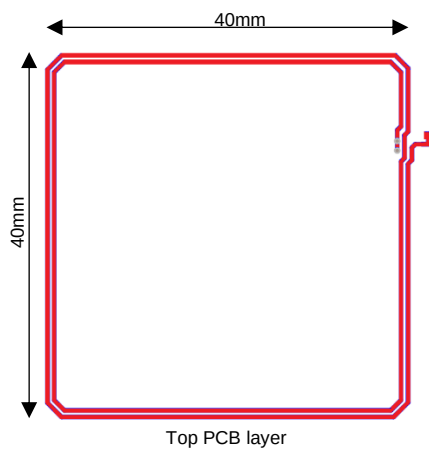


VTAP200ESS Antenna Specification

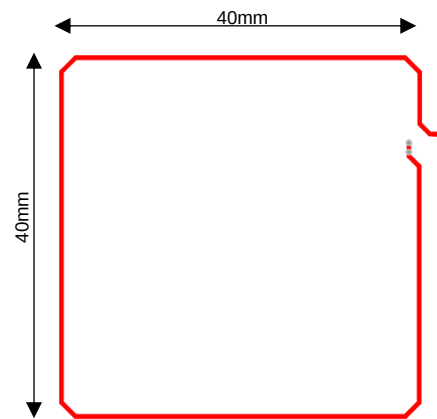
NFC Antenna Specification

	NFC Antenna
Antenna Model	VTAP200ANT1
Brand Name	Dot Origin
Antenna type	Internal (PCB printed) Loop antenna
Max. antenna gain	Not applicable
Antenna pattern	Not applicable
Centre frequency	13.56MHz (Near field)
Location	Etched on VTAP200ANT1PCB board

Dimensions:



Top PCB layer



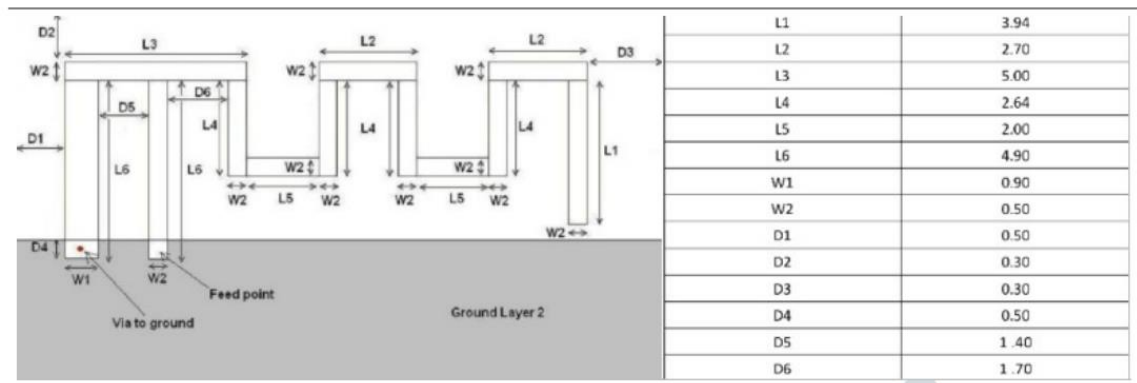
Bottom PCB layer

VTAP200ESS Antenna Specification

Wi-Fi + Bluetooth Antenna Specification

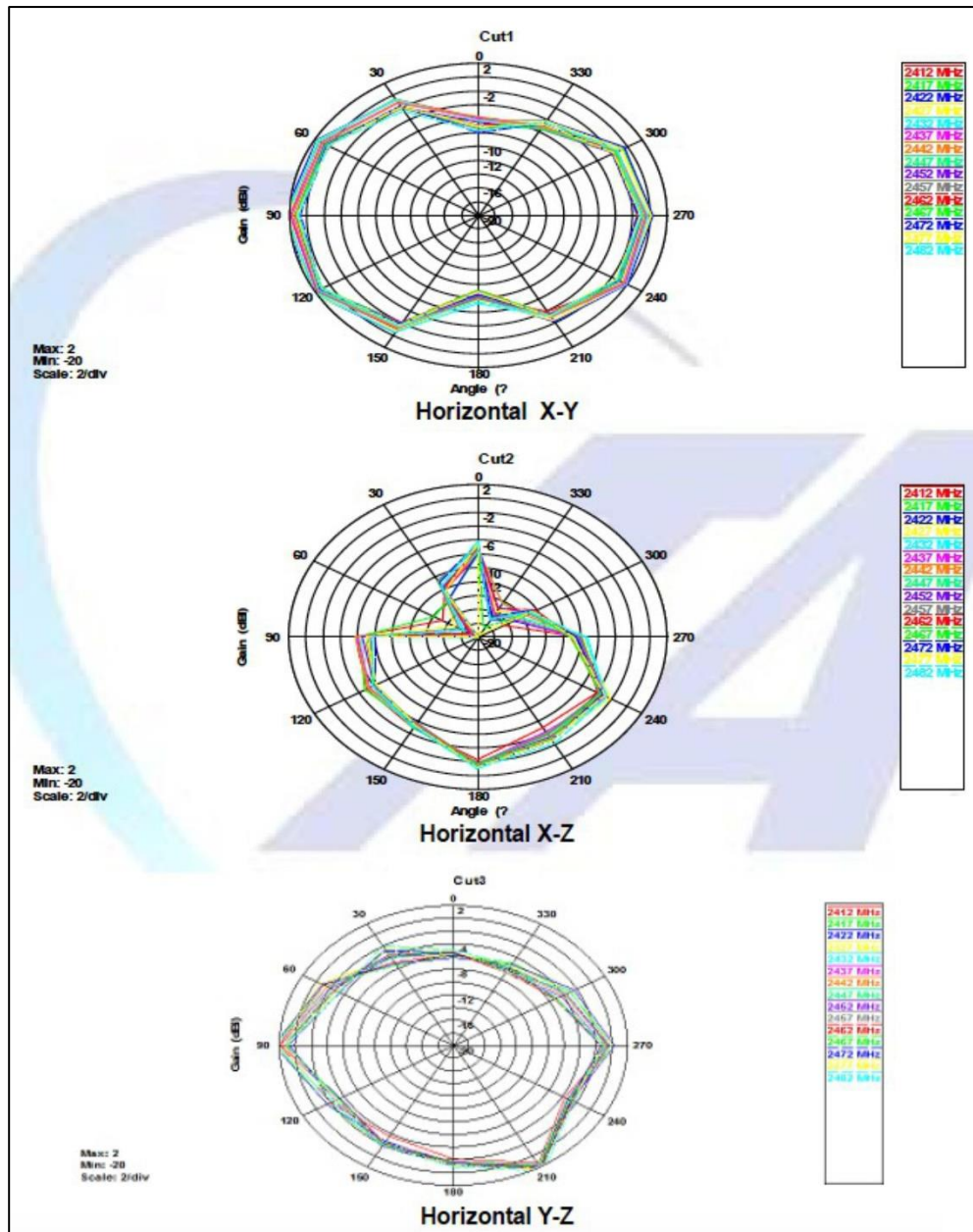
	Wi-Fi/Bluetooth Antenna
Antenna Model	ESP32-WROOM-32E (FCC ID: 2AC7Z-ESP32WROOM32E)
Brand Name	Espressif
Antenna type	Internal (PCB printed)
Max. antenna gain	2.4G Wi-Fi & BLE: 3.4dBi
Centre frequency	2.4G Wi-Fi: 2412-2462 MHz, BLE: 2402-2480MHz
Location	Etched on ESP32-WROOM-32E module
Antenna pattern	Annex. A

Dimensions:



ANNEX. A

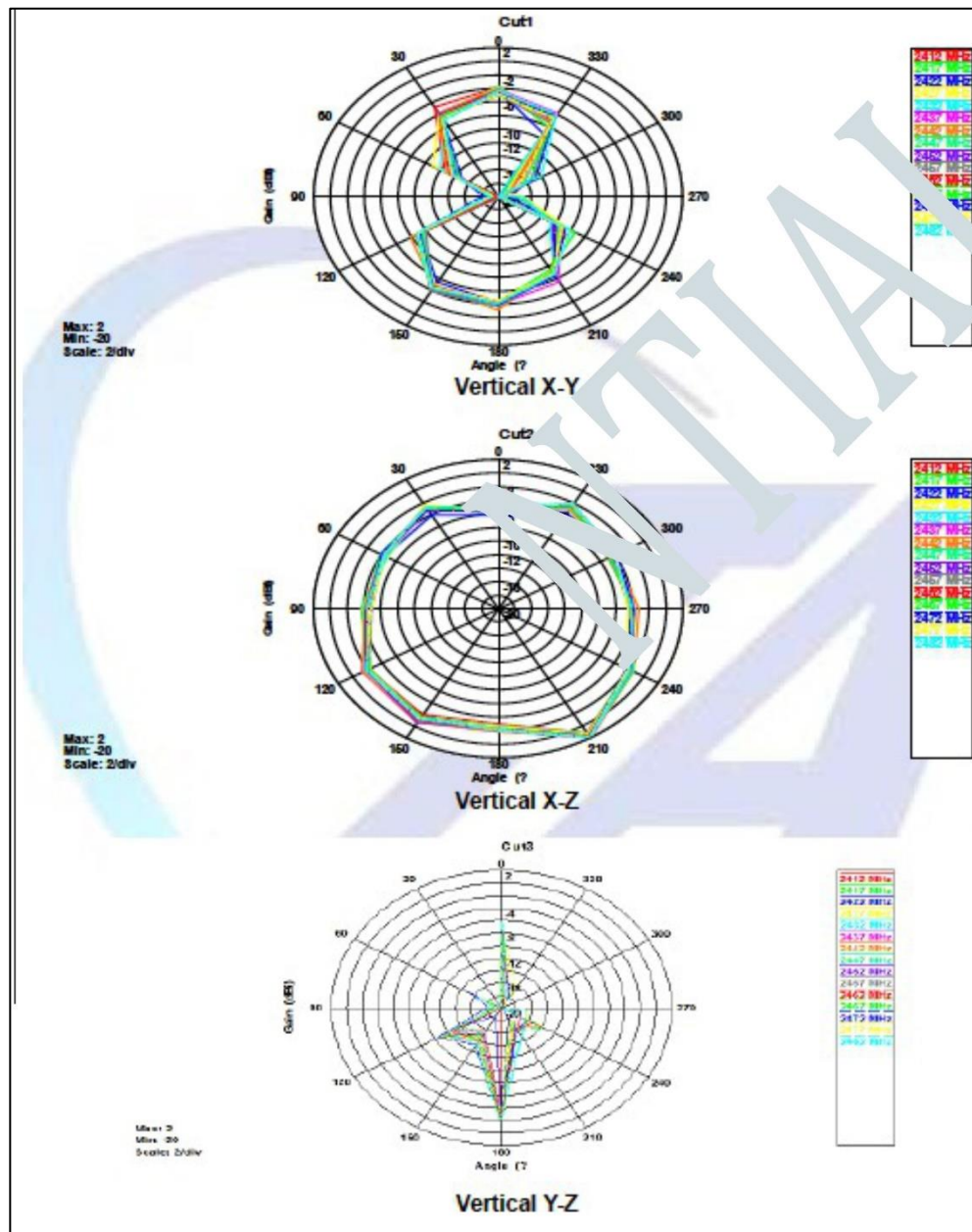
ESP32-WROOM Wi-Fi + Bluetooth Module Antenna Pattern



From section 6 of [ESP32-WROOM32E user manual](#)

ANNEX. A (continued)

ESP32-WROOM Wi-Fi + Bluetooth Module Antenna Pattern



From section 6 of [ESP32-WROOM32E user manual](#)