



HuiZhou Speed Wireless Technology CO., LTD.
Taiwan Speed Wireless Technology CO.,LTD.

Antenna Specification Datasheet

Customer Name : CHICONY ELECTRONICS CO., LTD.

Date : 2024.11.25.

OEM P/N	0790A2332L-B07
SPEED P/N	F-0W-51-6006-006-00
Version	A

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Project Name : Yoda	Author : Webb	File Name : 0790A2332L-B07(F-0W-51-6006-006-00)
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Revision History

Date	Revision	Description of changes
2024-11-25	A	First release

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1. Test Criteria

Test Criteria

Radiation gain measurement shall be made with the antennas installed in the intended notebook system. This specification evaluates performance of antenna at a system level with the antennas operating in a manner similar to customer use.

1.1 Test setup, Processes and Criteria

The gain measurement shall follow by following conditions:

- It is required that all the antenna gain to be measured spherically and computed by spatial average be computed of the resultant gain.
- During gain measurement, all other antennas not under test should be terminated by 50 Ohm load in end of cable.
- Space points of 3D gain measurement are increase by specific steps from Theta 0~180 degrees, and Phi, 0~360 degrees, as figure below. The increment steps are different steps are different by antenna functions, besides WiMAX defined in sections of WiMax antenna gain specifications, gain measurement to other function of antennas s should following steps table below.

Theta Start	15 degree	Phi Start	0 degree
Theta Stop	165 degree	Phi Stop	360 degree
Theta Increment	15 degree	Phi Increment	15 degree

1.2. Test Environment

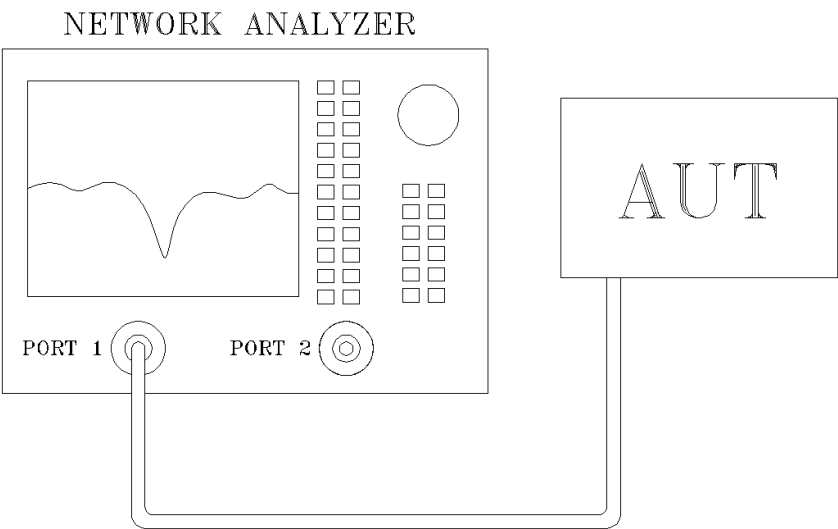
The testing of antenna gain should be made at a CTIA qualified lab with an RF anechoic chamber with at least 3-meter separation from the receive antenna to the antenna under test. The antenna gain report from unqualified lab can't be referenced a passing. Besides, all test equipment including horn antennas, adapters, cables, network analyzers, and receivers shall be calibrated per manufacturer's minimum calibration requirements.

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1.2.1 Antenna Test Environment

The RF anechoic chamber must be lined with absorptive material rated at a minimum frequency range from 600 MHz to 7.125 GHz.

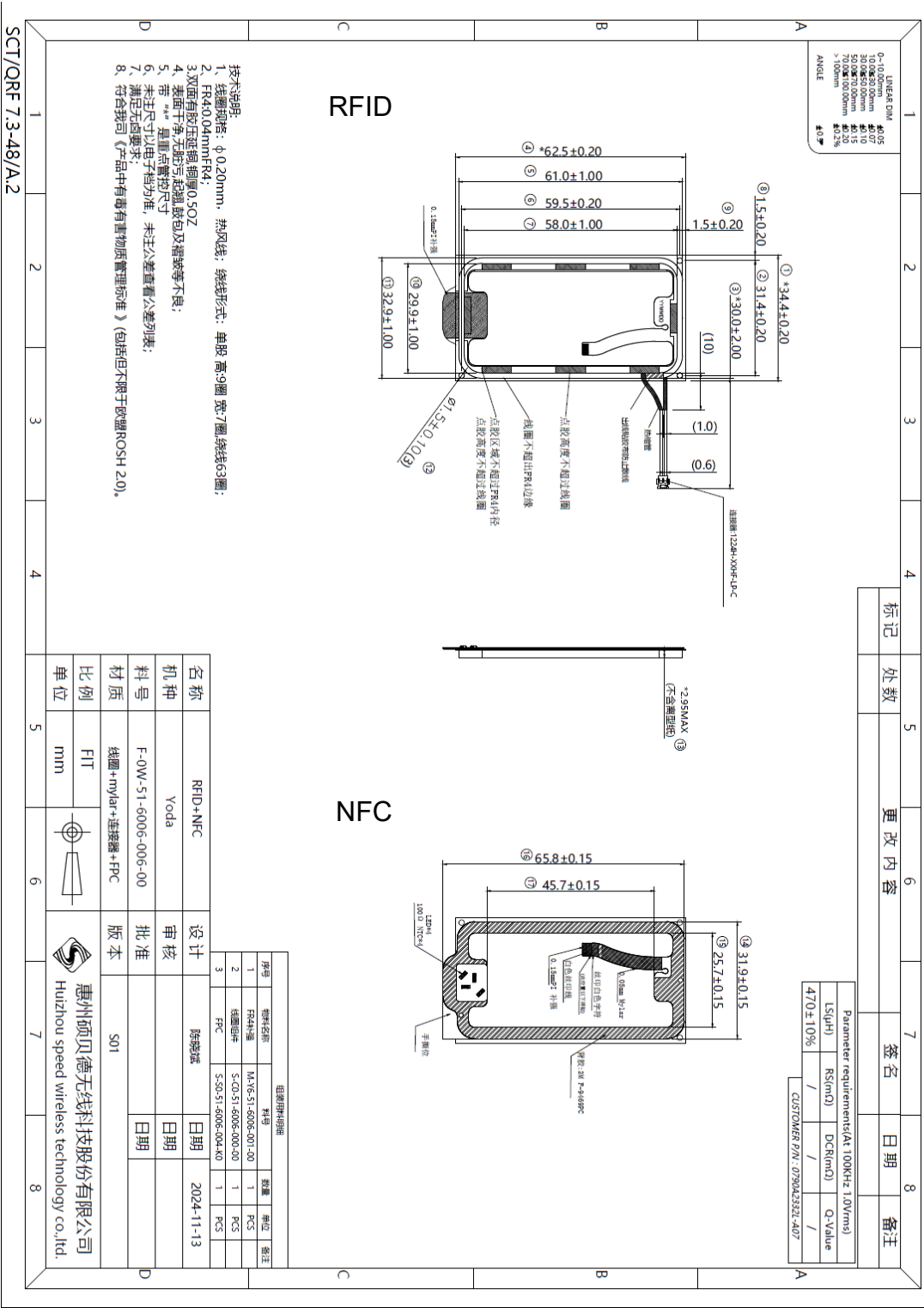
1.2.2 Test Conditions



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1.3 Antenna Drawing

RFID Antenna Type :	Loop
NFC Antenna Type :	Loop



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