



233621 SEED Antenna Spec



Part name: PCB IFA Antenna

Client: 233621

Design: Guixing wang

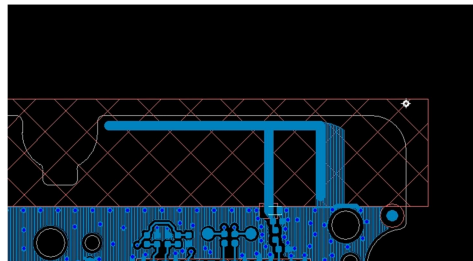
Date: 2022-12-25



1. Antenna Type

The antenna is printed on PCB by IFA , and works in 2.4GHz ISM band, central frequency at 2.45GHz.

Antenna Type	PCB IFA
Dimensions	L=25mm H=5mm
Central Frequency	2.45GHz
Bandwidth	150MHz (Min)
Return Loss	-16.1dB (Max)
Peak Gain	2.63dBi

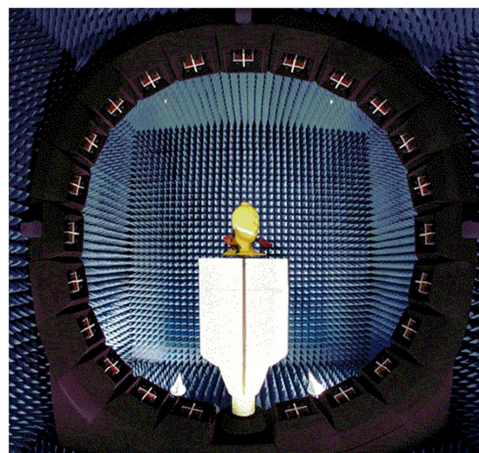


2. Test Lab

Test lab: ETS Microwave Chamber with 23 measurement antennas in Grandsun Electronics OTA Lab.

AMS-8923 Basics

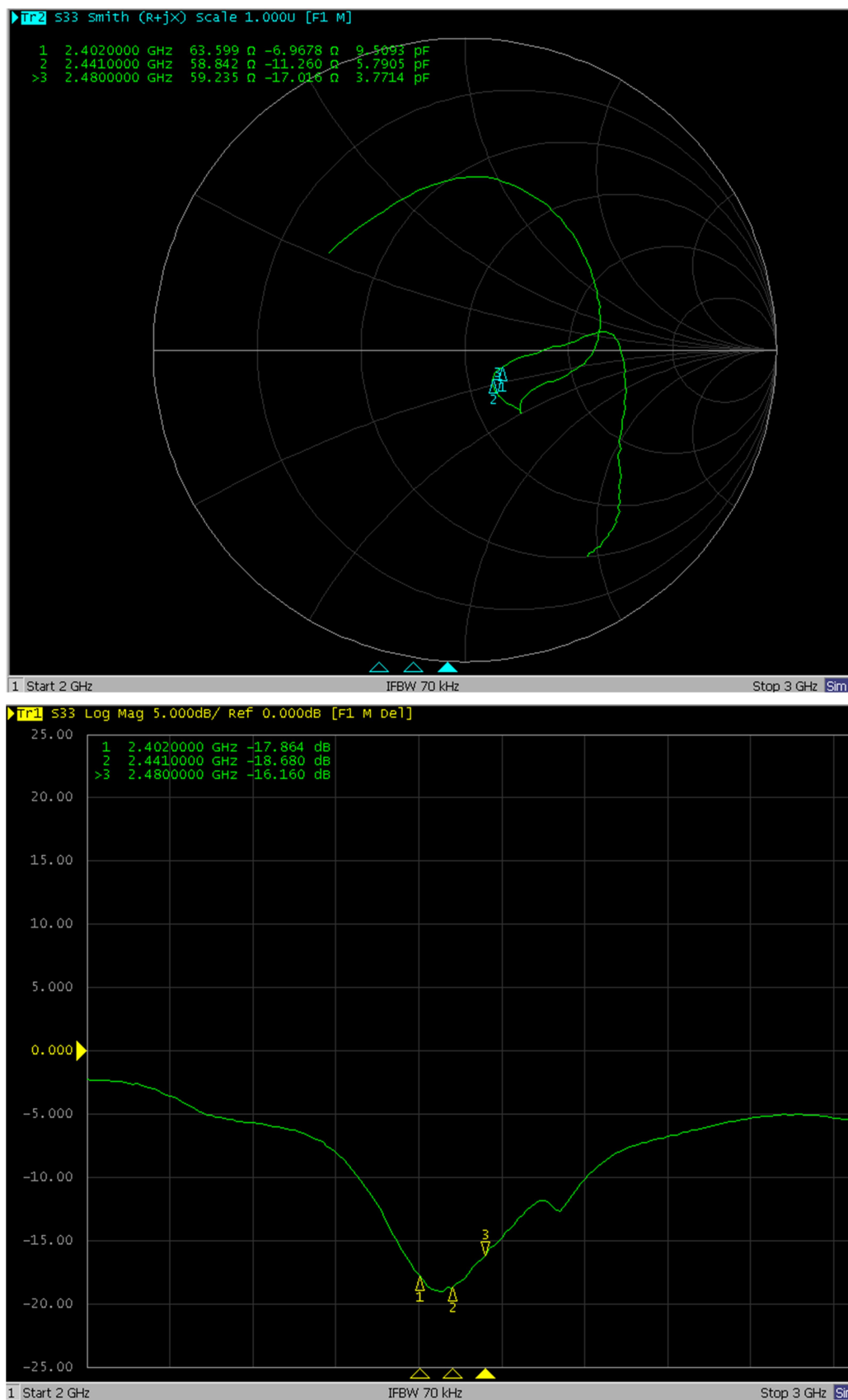
-  Regular Chamber Size: 16ft L x 16ft W x 16ft H
(4.9m x 4.9m x 4.9m)
-  Test Distance: 1.95 meter
-  Frequency: 700MHz – 6GHz
-  Fully anechoic covered with EHP-12 absorbers
-  Quiet Zone Diameter:
 - 30cm
 - 50cm
 - per CTIA 3.2 versions



 **ETS-LINDGREN**



3. Passive test -S11





4. Passive Efficiency and Gain

Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490
Efficiency/%	61.82	62.92	62.58	60.91	61.52	62.41	61.99	63.36	62.65	63.03
Gain/dBi	2.38	2.56	2.42	2.17	2.05	2.08	2.18	2.39	2.43	2.63

【Remark】 2400-2490MHz Peak Gain 2.63 dBi

5. Passive Test Graph

