

SPECIFICATION FOR APPROVAL

CUSTOMER :	
Antenna :	SMD Antenna
PART NO. :	
DZZ NO. :	N12-7701-R0A
REV. :	1.0

	MANUFACTURERR SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY:	Huiping Feng	Jiehui Liu
DATE:	13/09/2023	13/09/2023

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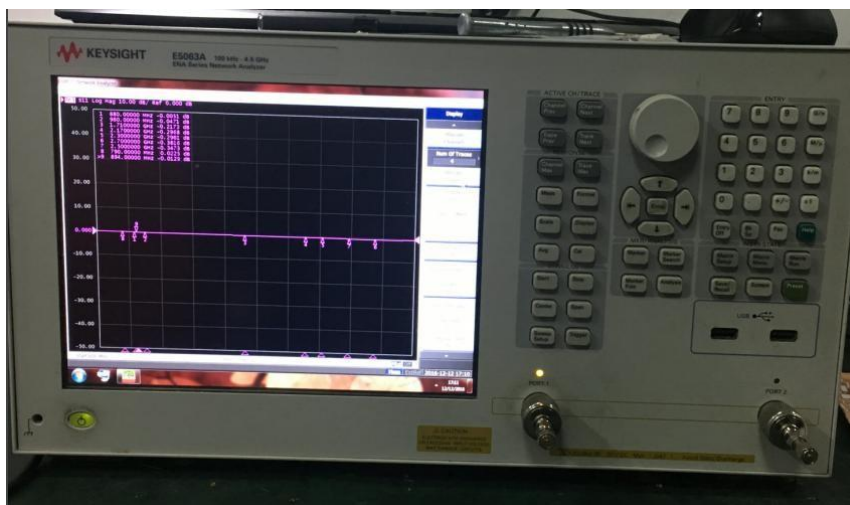
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1.RF Fixture Experiment

1.1 Test Setup

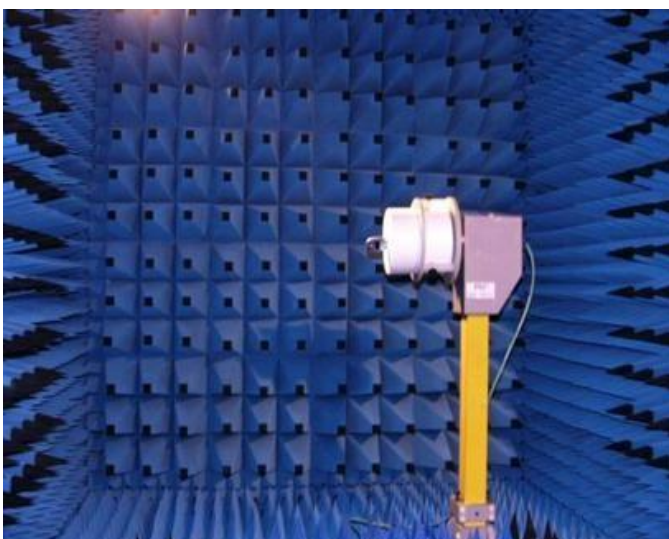
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also teste. The testing was performed with apparatus in free space.



1.1.2 Anechoic Chamber Test Setup

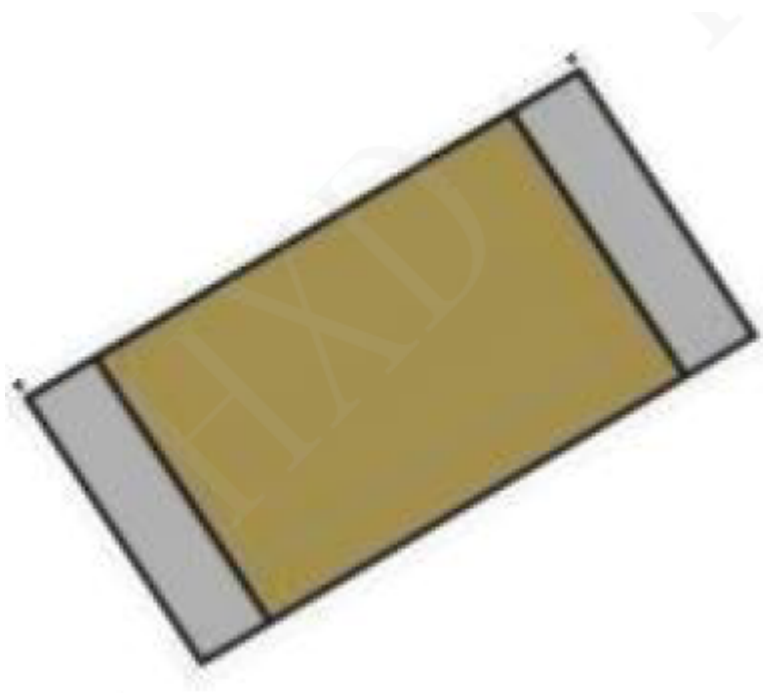
When we test Gain and Efficiency of the antenna, we will use the ETS 3D chamber. The chamber provides test frequency from 400MHz to 6GHz. The real test environment is showing as following picture





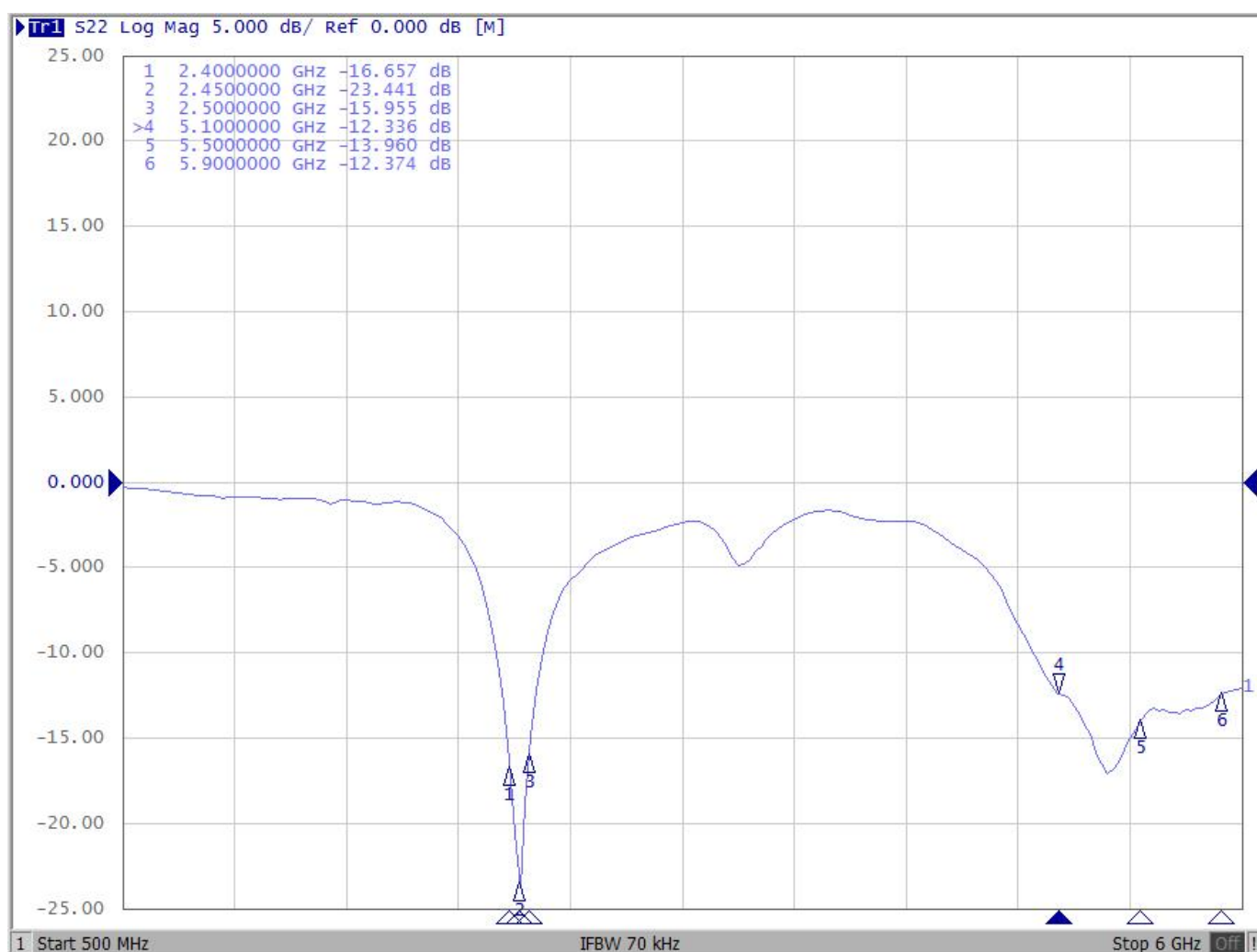
1.2 UE configuration

1.2.1 Antenna pictures and size information



Unit (mm): Length 8mm, Width 3mm

2. S11



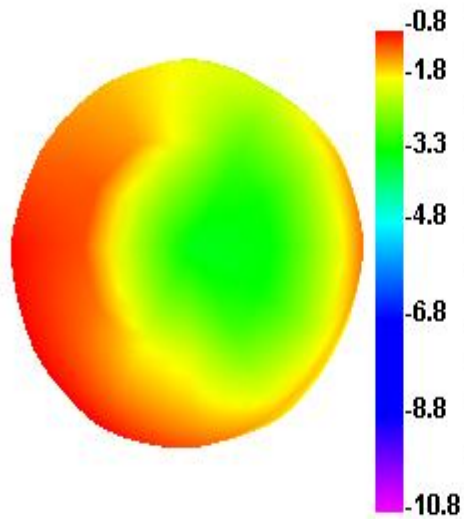
3. Peak Gain & Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)
2400	2.04	62.48
2410	2.13	62.94
2420	2.15	63.58
2430	2.22	63.83
2440	2.31	62.94
2450	2.50	63.58
2460	2.38	63.77
2470	2.19	62.34
2480	2.21	62.58
2490	2.25	62.19
2500	2.17	61.57

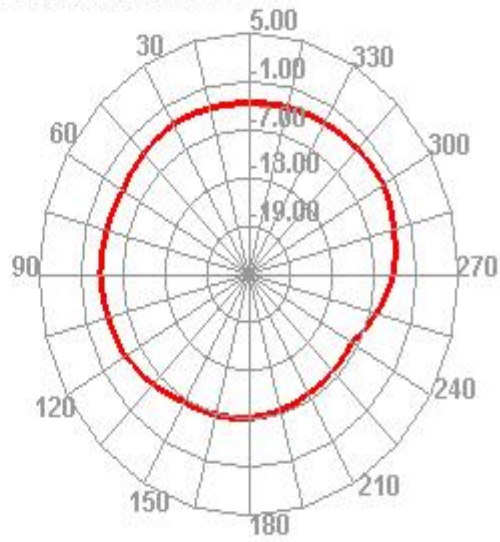
Frequency (MHz)	Gain(dBi)	Efficiency(%)
5100	2.38	54.38
5200	2.34	54.83
5300	2.31	53.97
5400	2.44	54.61
5500	2.46	54.89
5600	2.55	55.13
5700	2.52	54.87
5800	2.46	54.61
5900	2.41	53.89

2.4G

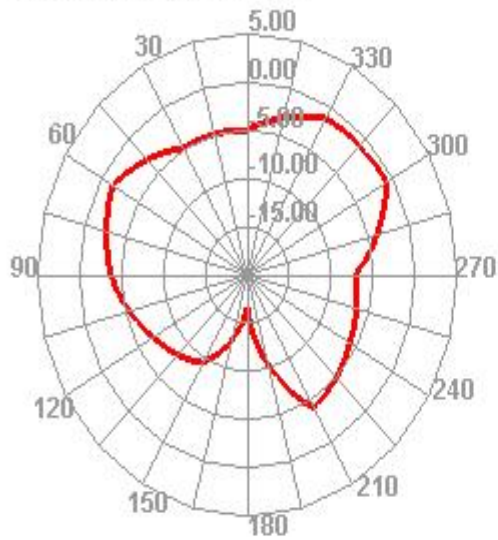
2400.000MHz



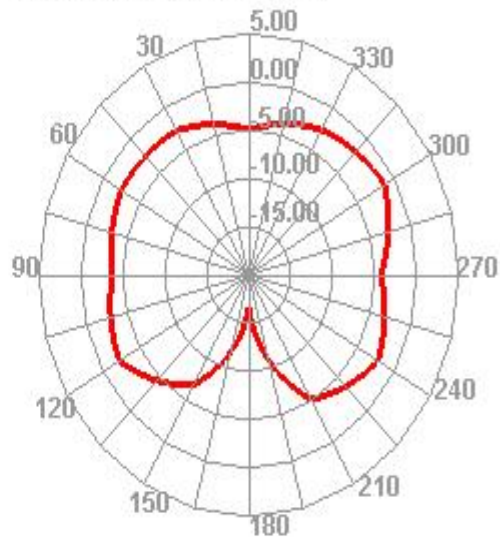
2400.000MHz H



2400.000MHz E1

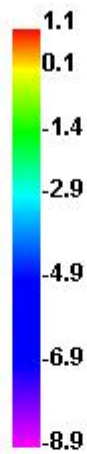
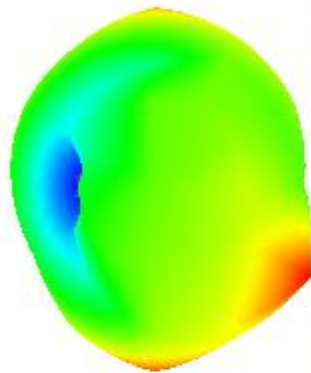


2400.000MHz E2

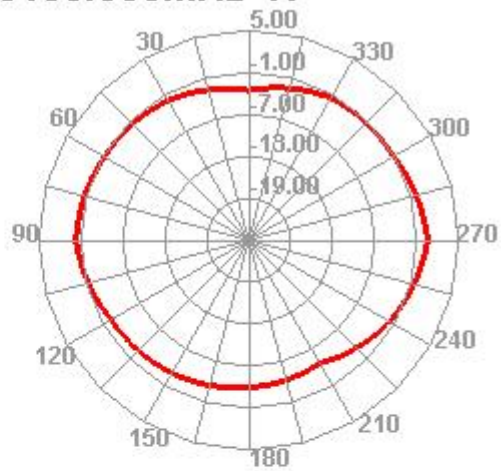


5G

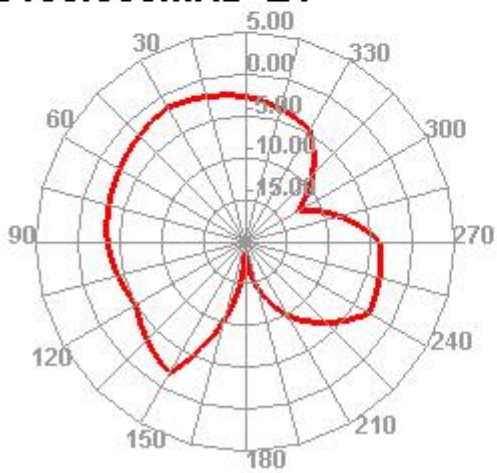
5150.000MHz



5150.000MHz H



5150.000MHz E1



5150.000MHz E2

