

ANTENNA SPECIFICATIONS

Model : KDT-TE-2450TO-03D

Configuration : Wi-Fi Dual Band

(2.4GHz /5GHz) for External Tilt

Version 1.0

The logo for KDT, featuring the letters 'K', 'D', and 'T' in a stylized font. The 'K' is purple, the 'D' is black, and the 'T' is black with a white outline.

1. APPLICATION SCORPE

THIS PRODUCT CAN BE USED IN RADIO TELECOMMUNICATION SYSTEM WITH 2.4GHz/5GHz, LIKE Wi-Fi SYSTEM.

2. OPERATING CONDITIONS

NO.	ITEMS	SPECIFICATIONS
2-1	OPERATING ENVIRONMENT	TEMPERATURE : -40~80°C HUMIDITY : ~90% RH

3. ELECTRONIC SPECIFICATIONS

NO	ITEMS	SPECIFICATIONS
3-1	IMPEDANCE	50Ω
3-2	FREQUENCY RANGE	2.4~2.5GHz / 5.1~5.9GHz
3-3	PEAK GAIN (ON HORIZONTAL)	1.0dBi / 1.0dBi
3-4	VSWR	≤ 2.5

4. APPEARANCE AND MECHANICAL SPECIFICATIONS

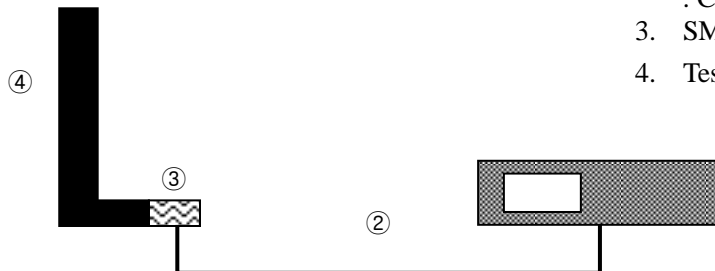
NO.	ITEMS	SPECIFICATIONS
4-1	CONNECTOR	SMA PLUG WITH MALE
4-2	BENDING	ANGLE : 180° / 45° / 90° ± 5%
4-3	COLOR	WHITE/BLACK
4-4	APPEARANCE AND DIMENSION	REFER TO DRAWING

5. TEST METHOD AND DATA FOR ELECTRONIC SPECIFICATIONS

NO.	ITEMS	SPECIFICATIONS	CONDITION REMARK
5-1	IMPEDANCE	50Ω	At 2.4~2.5GHz/5.1~5.9GHz
5-2	VSWR	≤ 2.5	

5-3 TEST METHOD

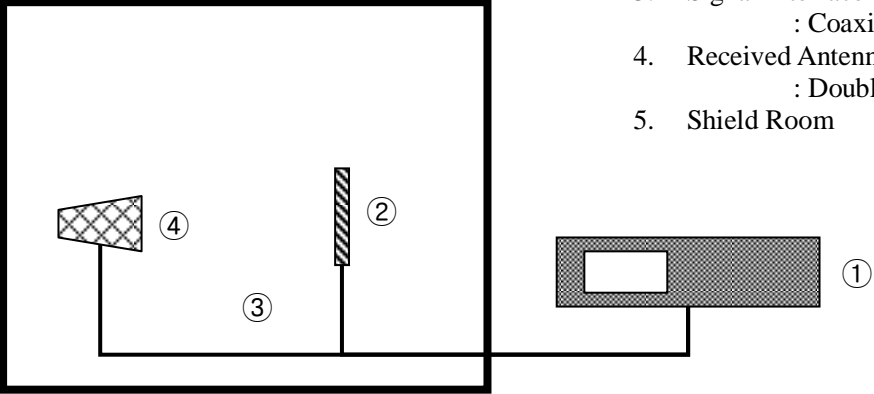
1. Network Analyzer
2. Signal Interface : Coaxial Cable
3. SMA connector
4. Test Antenna with angle 90°



5-4	Peak Gain	1.0dBi	At 2.4~2.5GHz/5.1~5.9GHz
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5-5 TEST METHOD ⑤

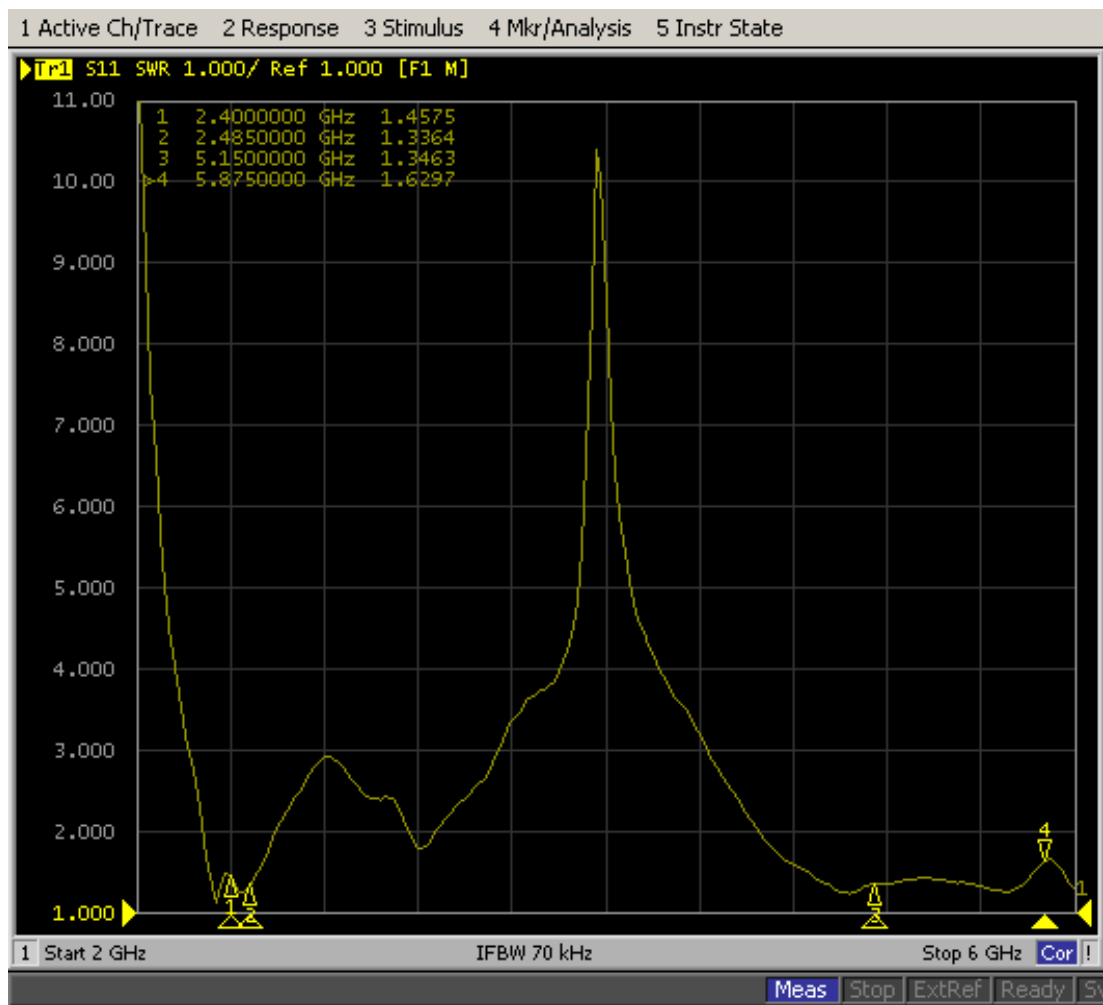
- 1. Network Analyzer
- 2. Test Antenna
- 3. Signal Interface
: Coaxial Cable
- 4. Received Antenna
: Double Ridged Horn Antenna
- 5. Shield Room



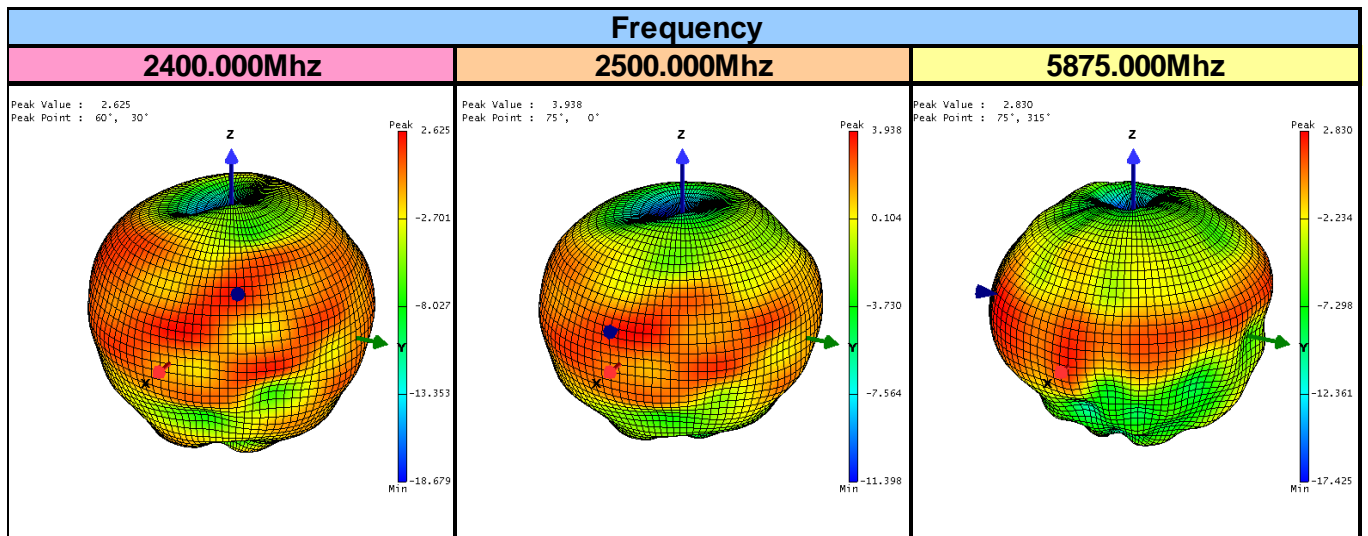
5-6 TEST DATA (Radiation Pattern)

*** SEE NEXT PAGE**

VSWR



Radiation Pattern



Test Results

Frequency	Peak Value		Minimum Value		Avg. Gain	Efficiency
	Value[dBi]	Degree	Value[dBi]	Degree		
2400	2.692	075 / 000	-18.679	015 / 300	-0.835	82.13%
2450	3.698	075 / 000	-13.01	015 / 300	-0.031	98.83%
2500	3.999	075 / 000	-11.736	165 / 000	0.12	102.34%
5150	2.253	090 / 285	-26.794	015 / 285	-1.748	66.55%
5500	3.325	090 / 315	-17.357	015 / 270	-1.665	67.84%
5875	2.83	075 / 315	-17.425	015 / 255	-2.055	62.01%

6. Antenna drawing

