

2.4-2.5/5.15~5.85 GHz WIFI Antenna
MT-10400F
specification&Test report
@2022.07.28

Shenzhen Aihui Technology Co., LTD

Test Company	Shenzhen Aihui Technology Co., LTD
Test Address	C402, Building CD, Juxin Science and Technology Industrial Park, Nanchang Community, Xixiang Street, Bao 'an District, Shenzhen
Test Date	2023/4/17
Test Instrument	Keysight E5071B

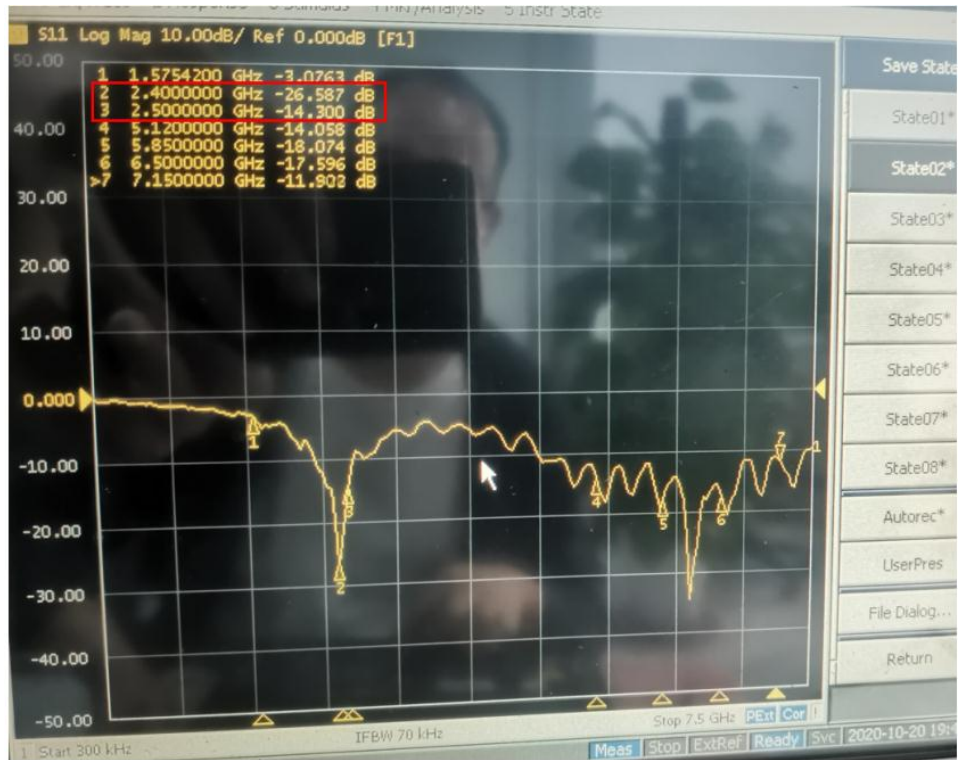
antenna design specification

Antenna dimensions as blow picture show: the material is FR4 and the thickness is 0.6mm of FPCB.

ANT:

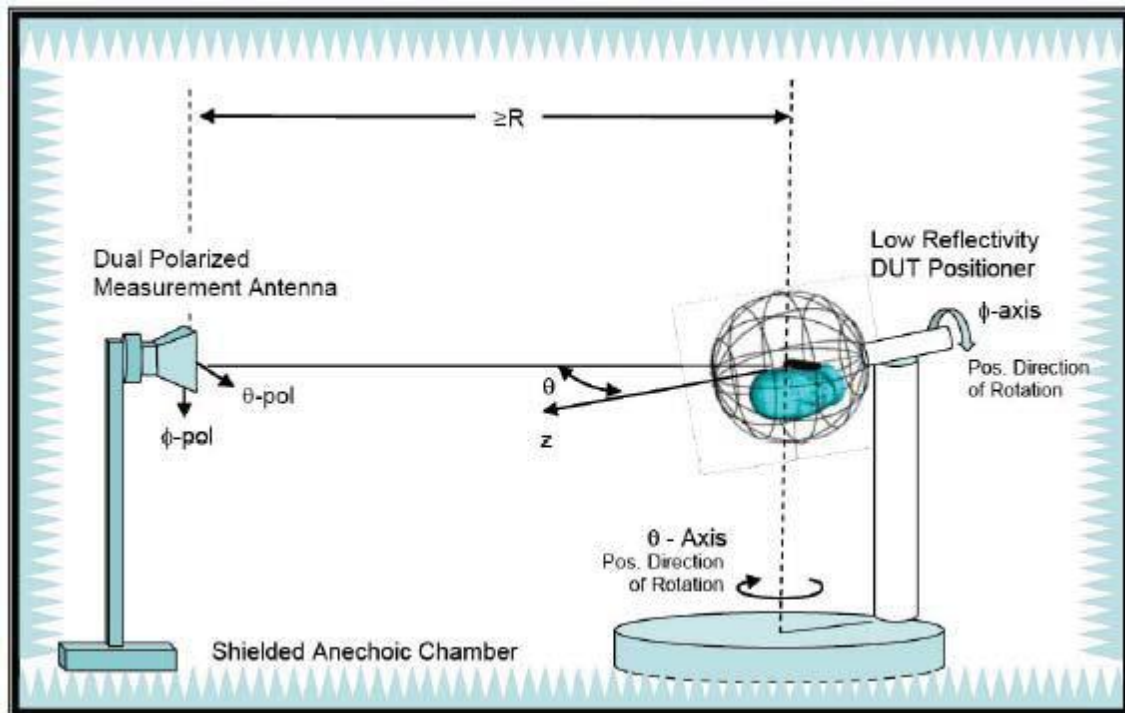
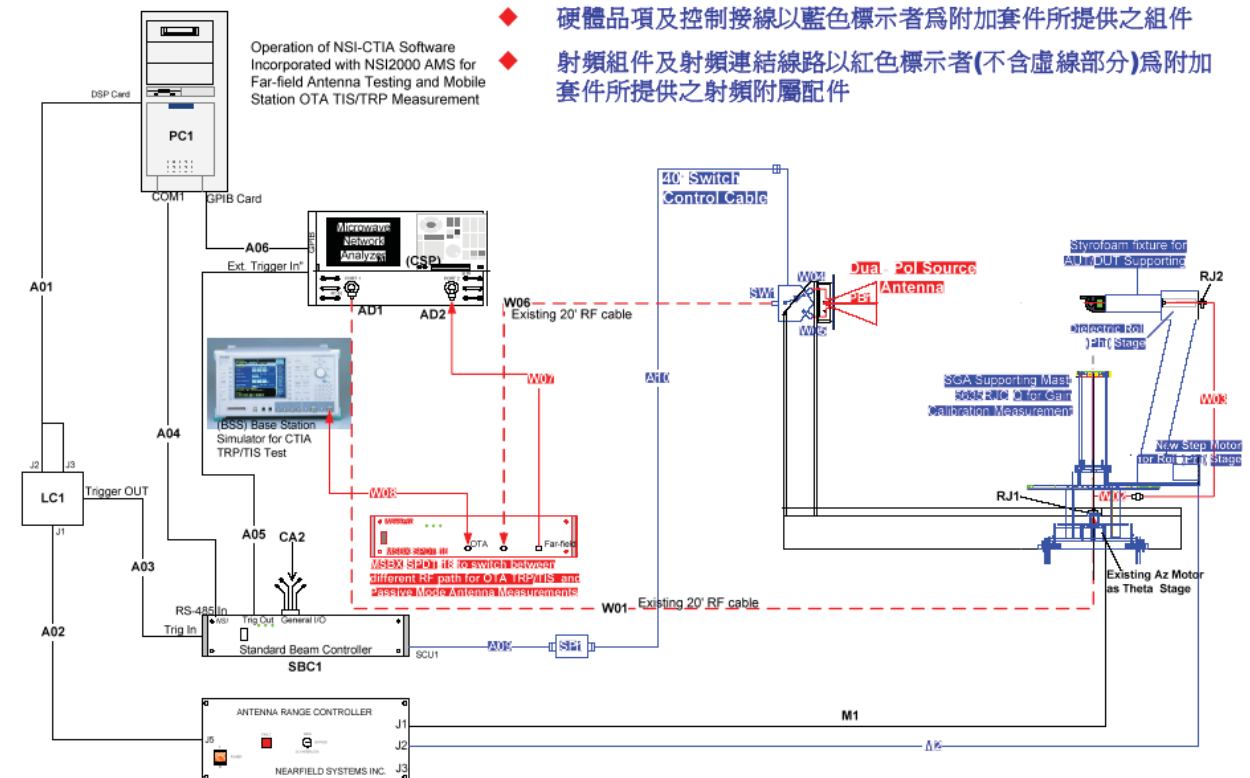


WIFI ANTENNA



Test Setup

NFC-500S 3D Chamber Coordinate System Definition Configuration of 3D Chamber



TEST EFFICENCY

Test Point ID	Freq. (MHz)		Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	2400.0	2400.00	1.70	6.73	27.4%
2	2405.0	2405.00	1.92	6.64	28.4%
3	2410.0	2410.00	1.47	6.32	27.1%
4	2415.0	2415.00	1.80	6.68	26.9%
5	2420.0	2420.00	1.74	6.27	27.4%
6	2425.0	2425.00	1.67	6.64	28.9%
7	2430.0	2430.00	1.88	6.50	29.5%
8	2435.0	2435.00	1.90	6.41	28.5%
9	2440.0	2440.00	1.77	6.34	27.9%
10	2445.0	2445.00	1.40	5.84	26.3%
11	2450.0	2450.00	1.65	5.60	26.9%
12	2455.0	2455.00	1.73	6.05	26.6%
13	2460.0	2460.00	1.42	5.70	27.1%
14	2465.0	2465.00	1.58	5.73	28.4%
15	2470.0	2470.00	1.41	5.64	27.6%
16	2475.0	2475.00	1.66	5.39	27.8%
17	2480.0	2480.00	1.74	5.33	28.5%
18	2485.0	2485.00	1.31	5.46	28.4%
19	2490.0	2490.00	1.61	5.62	30.0%
20	2495.0	2495.00	1.50	5.47	30.5%
21	2500.0	2500.00	1.59	5.67	29.2%

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	5150.0	5150.00	1.56	5.50	26.9%
2	5450.0	5450.00	1.35	4.20	26.0%
3	5750.0	5750.00	1.43	5.84	26.3%
4	6050.0	6050.00	1.52	4.71	27.9%
5	6350.0	6350.00	1.60	4.27	26.4%
6	6650.0	6650.00	1.33	3.28	28.7%
7	6950.0	6950.00	1.49	3.20	27.5%
8	7125.0	7125.00	1.50	3.56	28.8%