Sunnyway Technology(Shenzhen)Co.,LTD.

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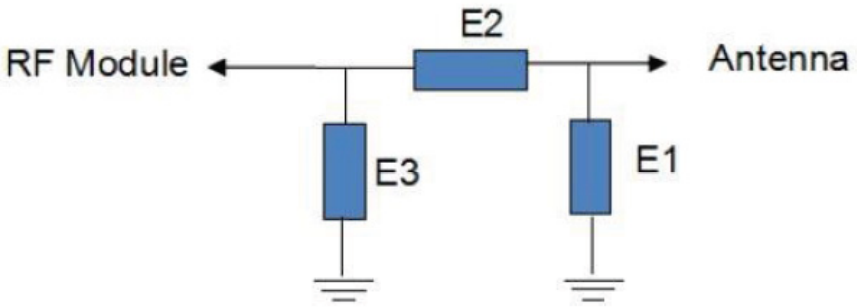
Model: SY_M8_WIFI

Matching circuit

Element	Value
E1	N/A
E2	0 Ω
E3	N/A



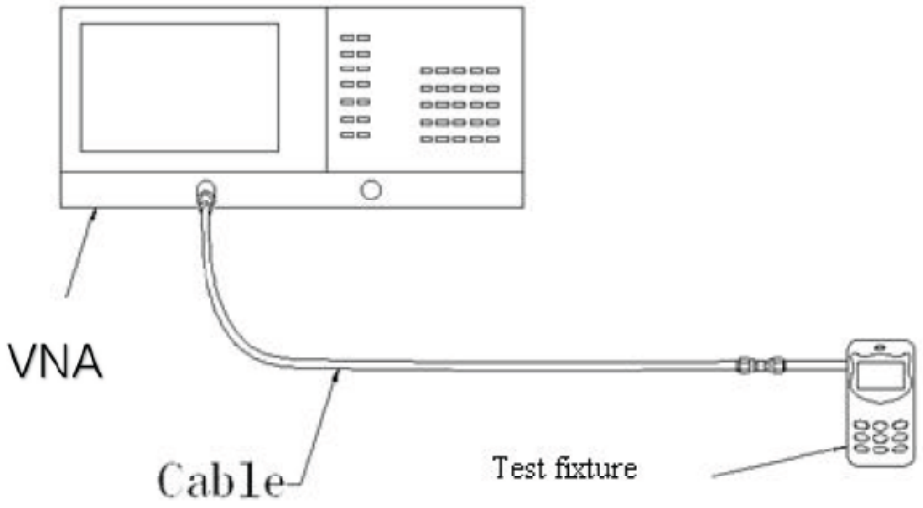
Antenna passive testing data

S11 Description of the test method

Test the equipment：Vector network analyzer (Agilent E5071C)

Test methodology：Use a 50 ohm CABLE cable to export from the instrument test port, use the calibration piece to calibrate and connect the SMA connector of the test fixture, and record the return loss and standing wave ratio corresponding to the relevant frequency point.

Below is a schematic picture of the test：



Test schematic diagram

S11 Test parameters

(Freq.) MHz	2400	2500	5150	5850
VSWR	2.23	1.78	2.61	2.78

VSWR

Antenna active testing data

Test the environment

Test the system：Multi-probe OTA measurement system（XH-IoT）

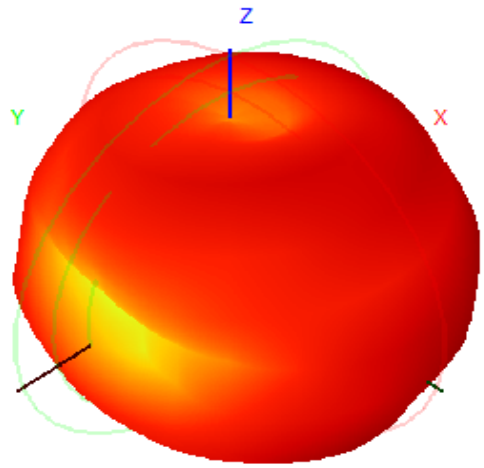
Test the environment：Temperature 22°C±3°C, humidity 50%±15%

Test the equipment：When testing passive data, use the network analyzer R&S ZND/ Agilent E5071C
When testing active data, use the Agilent 8960/CMW500/SP9500E/SP8315

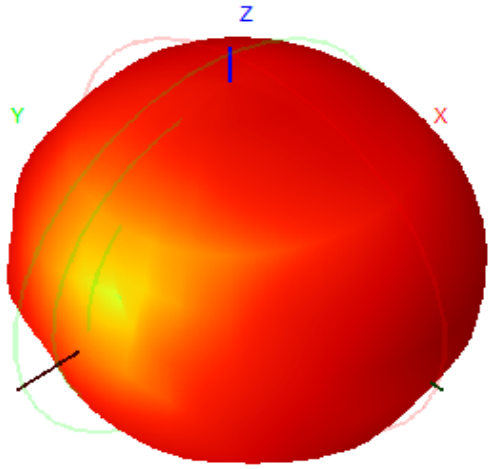
Data

Frequency/MHz	Max Gain/dBi
2400	-1.2
2410	-1.59
2420	-1.77
2430	-1.97
2440	-1.83
2450	-1.98
2460	-1.95
2470	-2.57
2480	-2.57
2490	-2.84
2500	-2.79
5150	-2.25
5180	-2.64
5210	-2.6
5240	-2.51
5270	-2.98
5300	-2.73
5330	-2.94
5360	-2.71
5390	-2.52
5420	-2.6
5450	-2.28
5480	-2.3
5510	-2.48
5540	-2.49
5570	-2.56
5600	-2.68
5630	-2.82
5660	-2.84
5690	-3.13
5720	-2.61
5750	-2.72
5780	-2.6
5810	-2.55
5840	-2.43

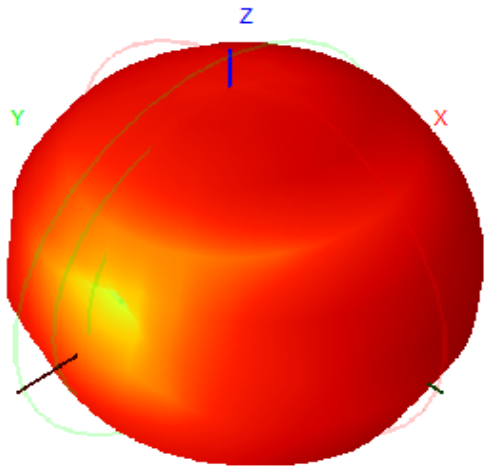
2400MHz



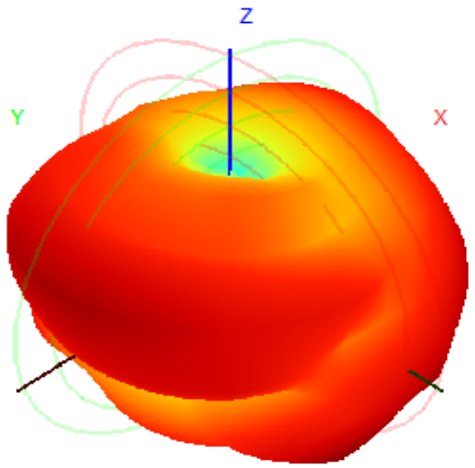
2450MHz



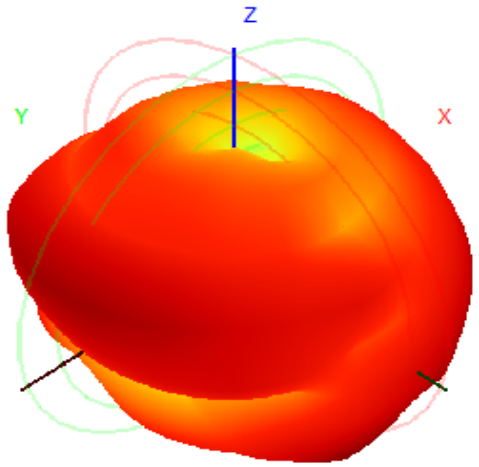
2500 MHz



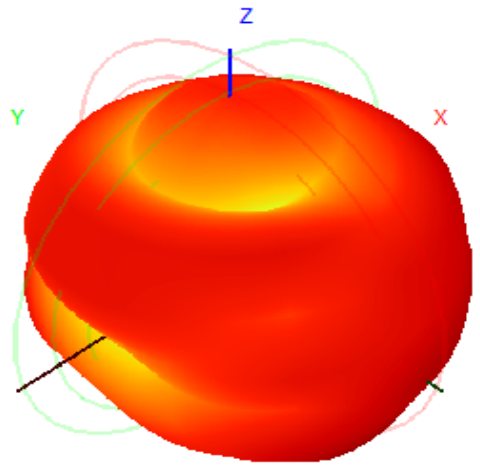
5150 MHz

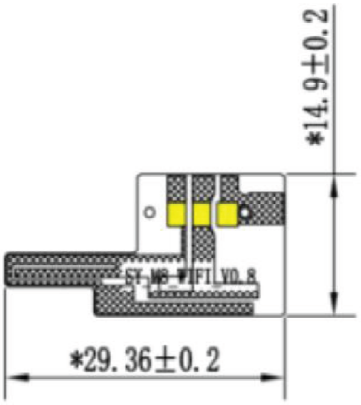


5510 MHz



5840 MHz




*14.9±0.2
*29.36±0.2