

Supplier: Kunshan Innowave Communication
Technology Co., Ltd.

Customer: Razer Inc

Project name: AX6175A

Product name: RZ45-0460VWQ

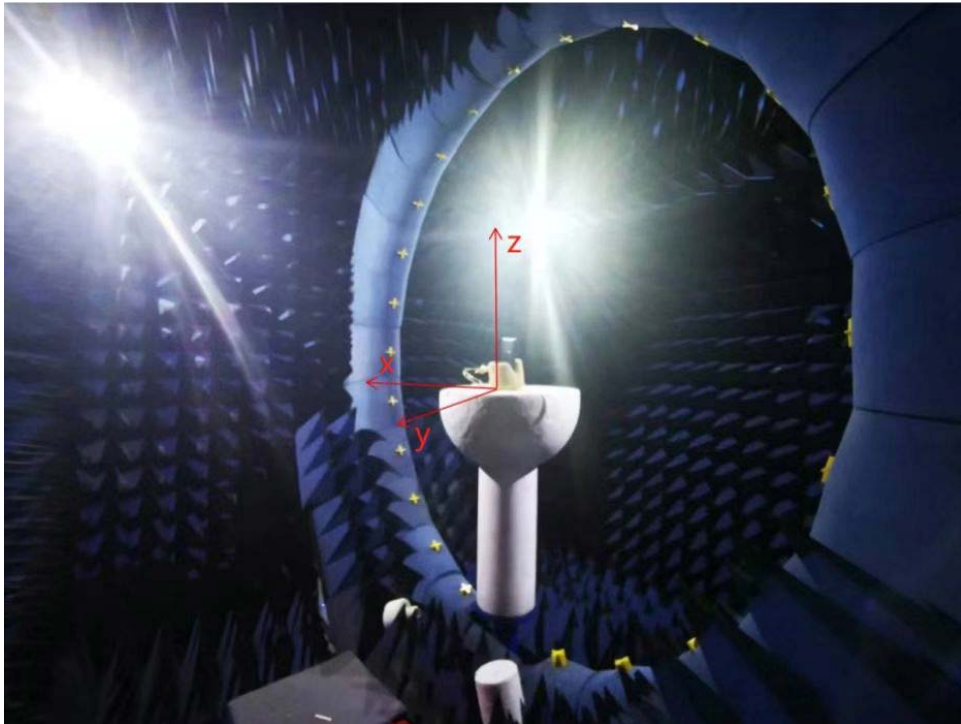
Material: LDS

Date: 2022.11.09

1: chamber room introduction and testing scope

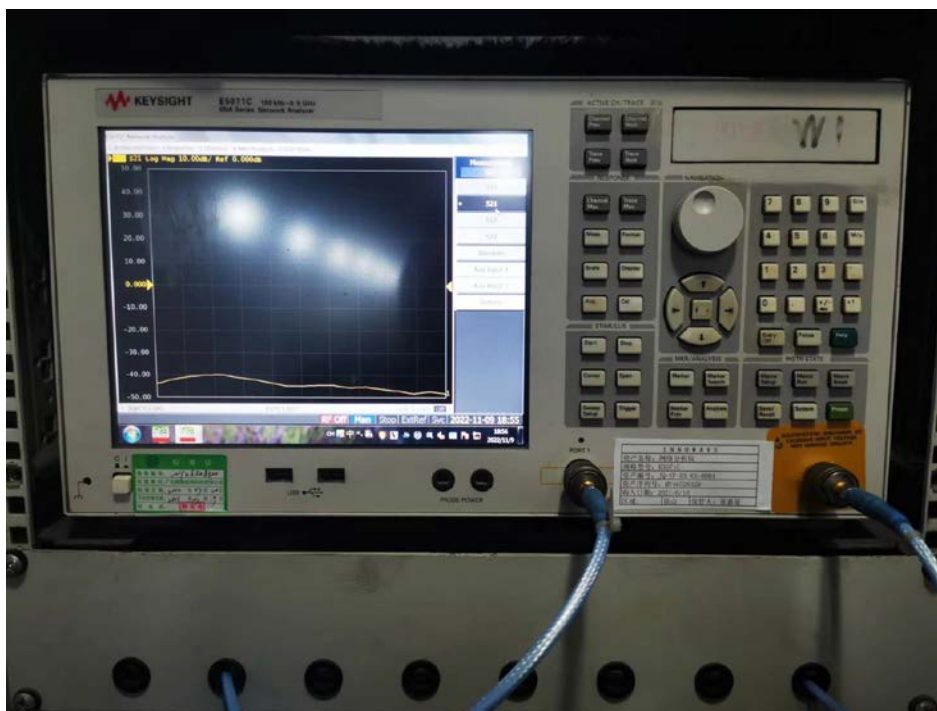
SATIMO SG24 antenna test system, which can be used for antenna near-field and far-field performance measurement and TRP/TIS three-dimensional active test, mainly used to test the following cell phone antenna performance: directional map, gain, antenna efficiency, polarization performance, TRP and TIS of the phone.

Calibration cycle: Half month



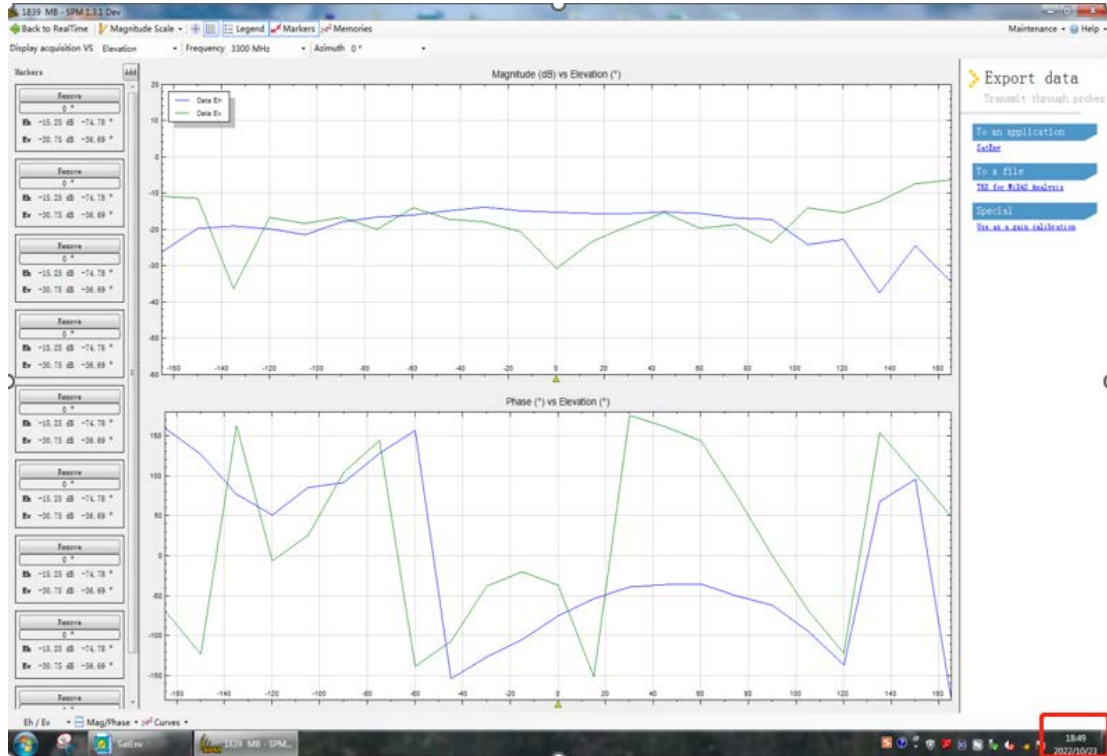


Test Instruments: Keysight-E5071C, (100kHz-8.5GHz)
Calibration cycle: 2022.7.20-2023.7.19



3: Test result

Test time



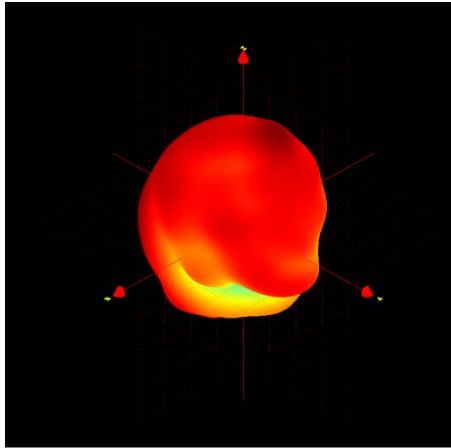
Antenna placement:

ANT4								
Freq[MHz]	WIFI 2.4G 2450	WIFI 5G 5200	WIFI 5G 5500	WIFI 5G 5800	WIFI 6E 6000	WIFI 6E 6200	WIFI 6E 6800	WIFI 6E 7100
AVG Gain[dBi]	-0.1	-0.8	-2.1	-1.7	-3.3	-3.5	-3.4	-3.5
Peak Gain[dBi]	0.4	-0.4	-1.6	-1.1	-3.2	-3.3	-3.1	-3.1
ANT5								
Freq[MHz]	WIFI 2.4G 2450	WIFI 5G 5200	WIFI 5G 5500	WIFI 5G 5800	WIFI 6E 6000	WIFI 6E 6200	WIFI 6E 6800	WIFI 6E 7100
AVG Gain[dBi]	-0.3	-2.6	-3.3	-2.4	-3.6	-3.5	-3.6	-3.5
Peak Gain[dBi]	0	-2.5	-2.7	-1.8	-3.3	-3.3	-3.2	-3.4

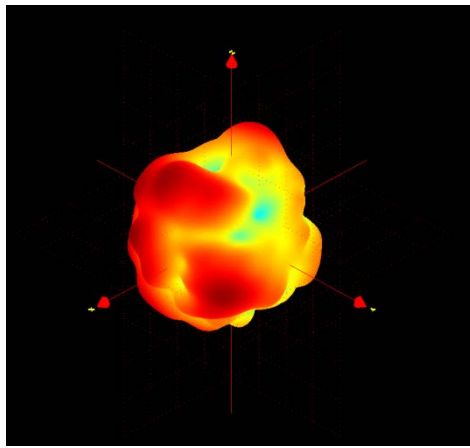
3D Pattern

ANT4 _ 2.4G(Frequency=2450MHz)

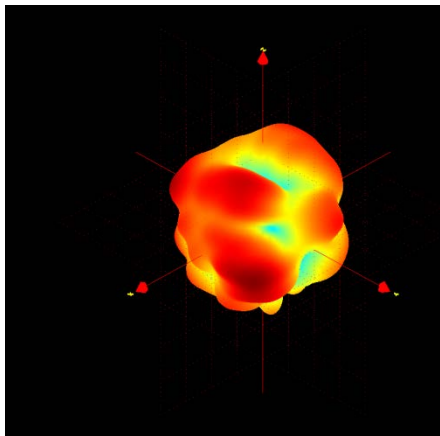
ANT4 _ 5G(Frequency=5200MHz)



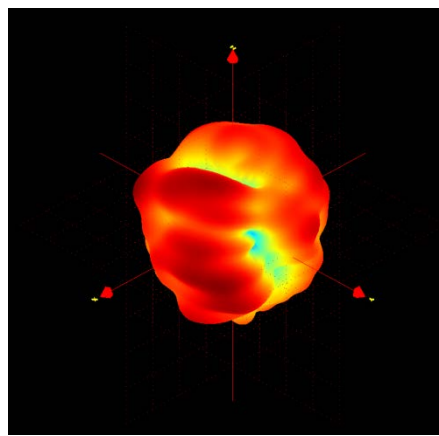
ANT4_5G(Frequency=5500MHz)



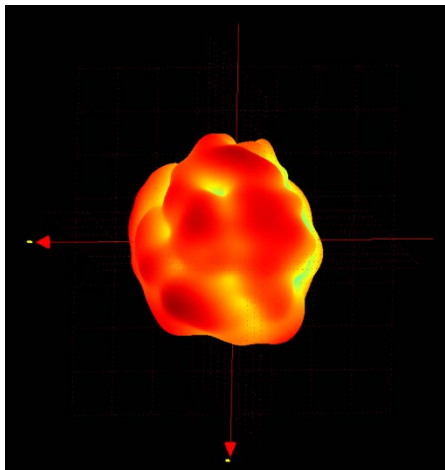
ANT4_5G(Frequency=5800MHz)



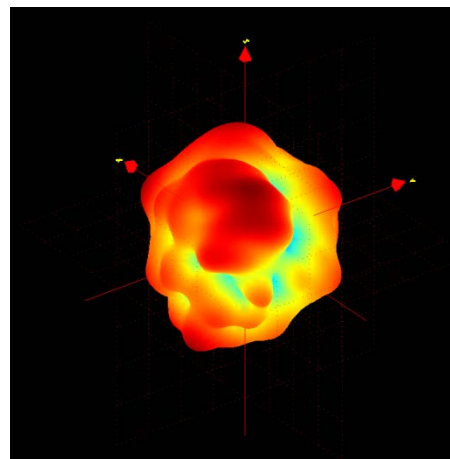
ANT4_6E(Frequency=6000MHz)



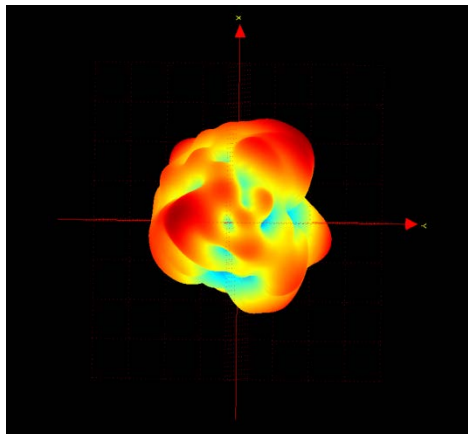
ANT4_6E(Frequency=6200MHz)



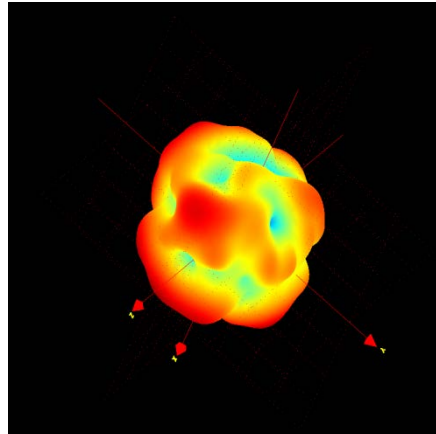
ANT4_6E(Frequency=6800MHz)



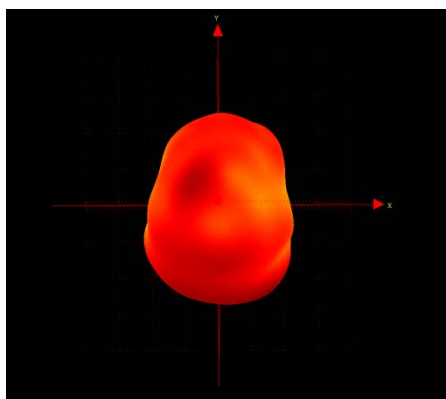
ANT4_6E(Frequency=7100MHz)



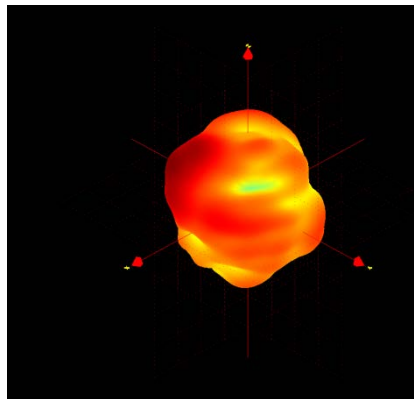
ANT5_2.4G(Frequency=2450MHz)



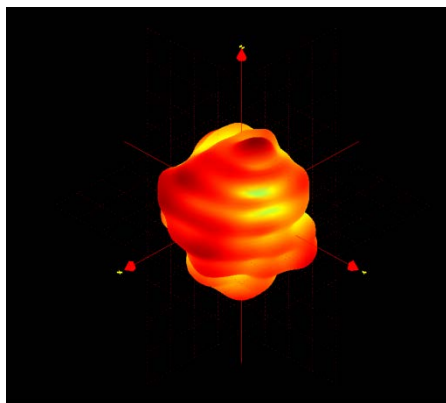
ANT5_5G(Frequency=5200MHz)



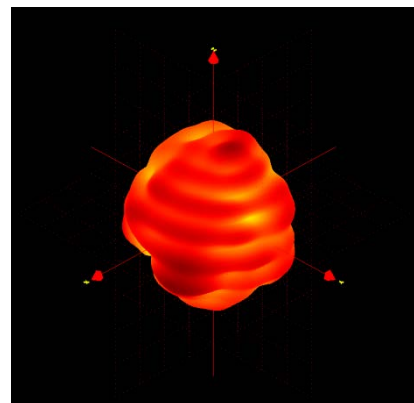
ANT5_5G(Frequency=5500MHz)



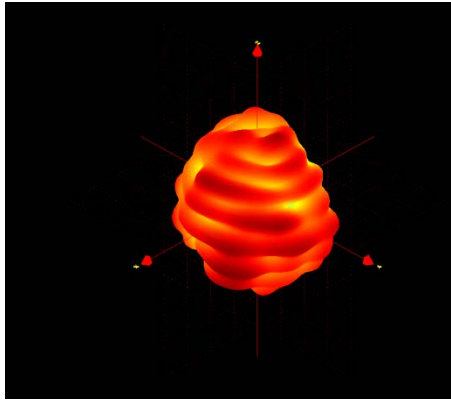
ANT5_5G(Frequency=5800MHz)



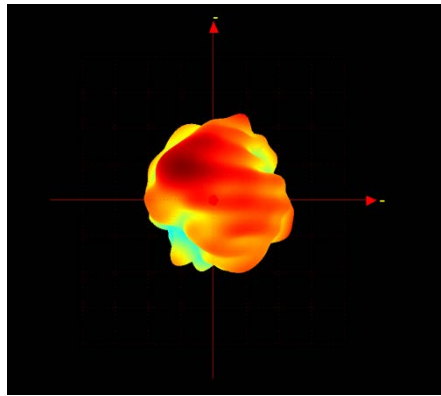
ANT5_6E(Frequency=6000MHz)



ANT5_6E(Frequency=6200MHz)



ANT5_6E(Frequency=6800MHz)



ANT5_6E(Frequency=7100MHz)

