

Supplier: Kunshan Innowave Communication
Technology Co., Ltd.

Customer: Razer Inc

Project name: AX6175A

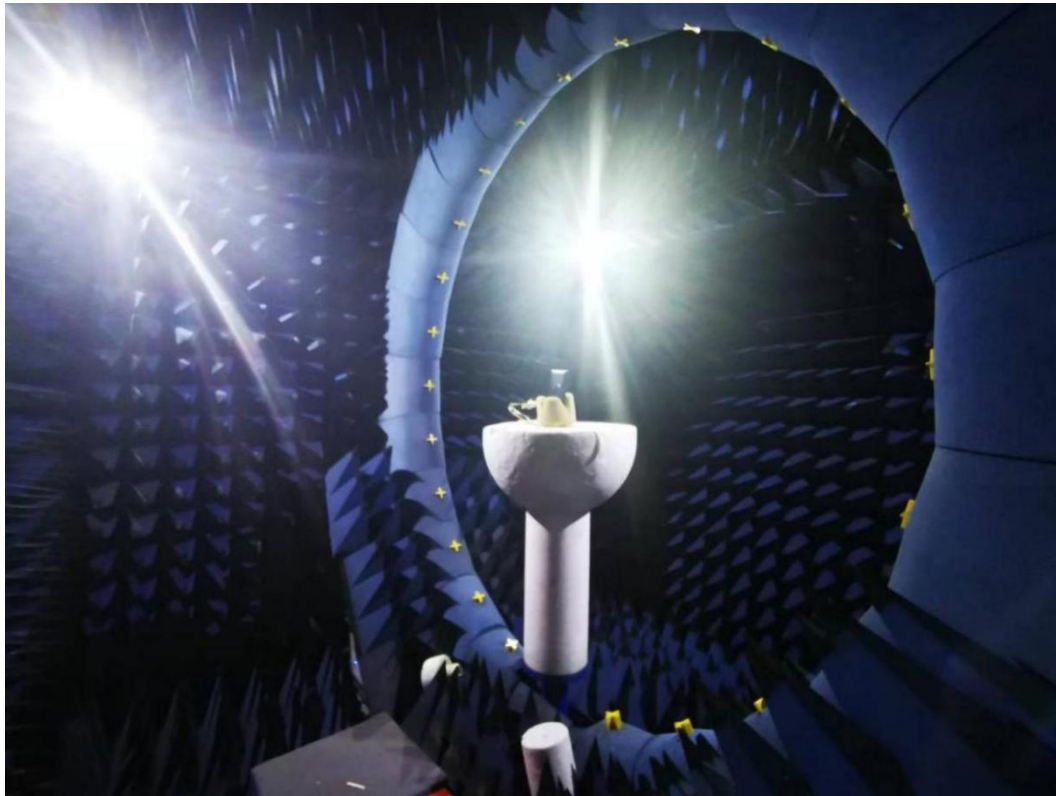
Product name: RZ45-0461

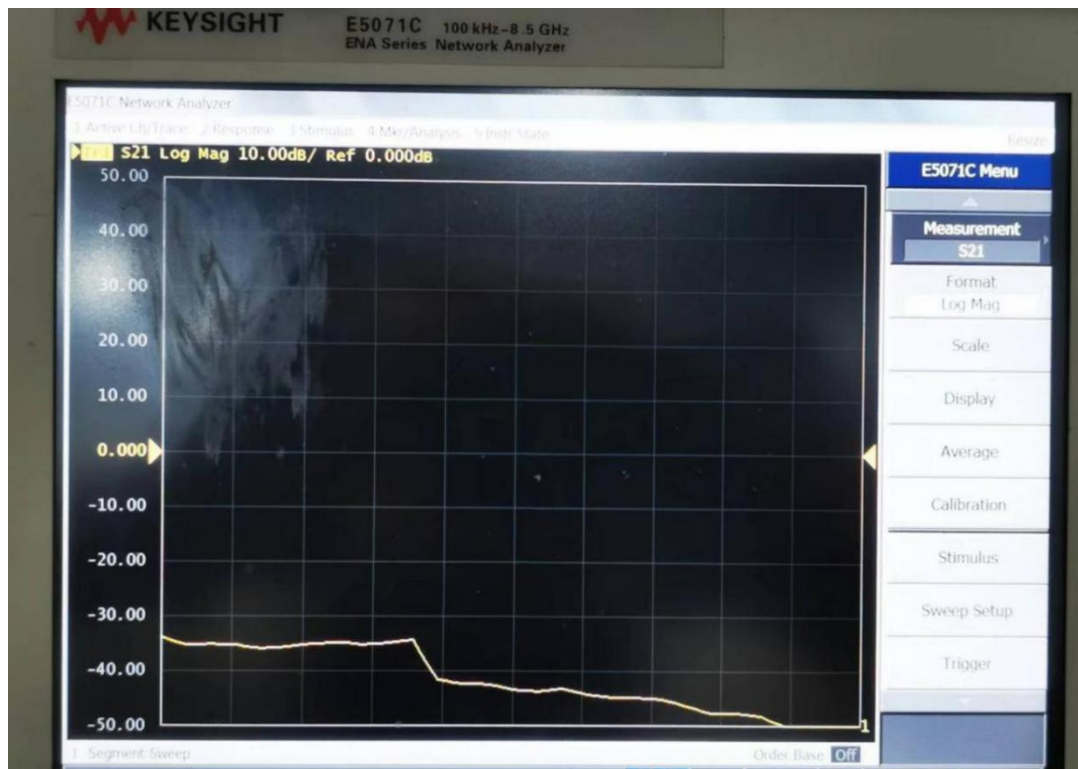
Material: LDS

Date: 2022.10.26

1: chamber room introduction and testing scope

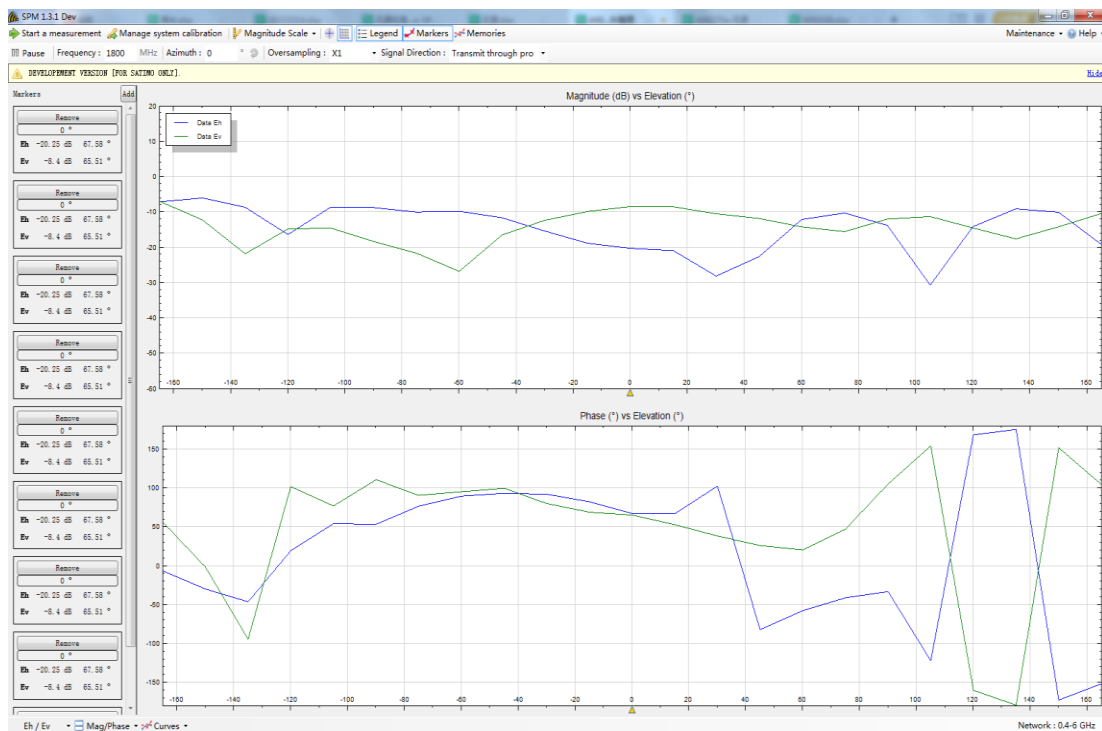
SATIMO SG24 antenna test system, which can be used for antenna near-field and far-field performance measurement and TRP/TIS three-dimensional active test, mainly used to test the following cell phone antenna performance: directional map, gain, antenna efficiency, polarization performance, TRP and TIS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





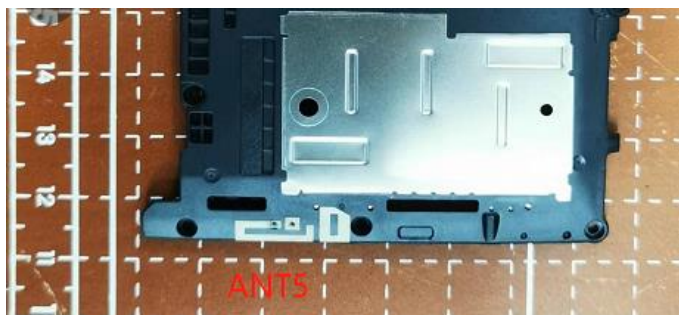
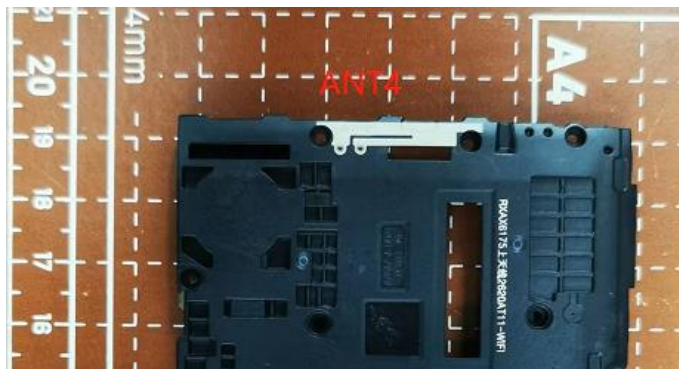
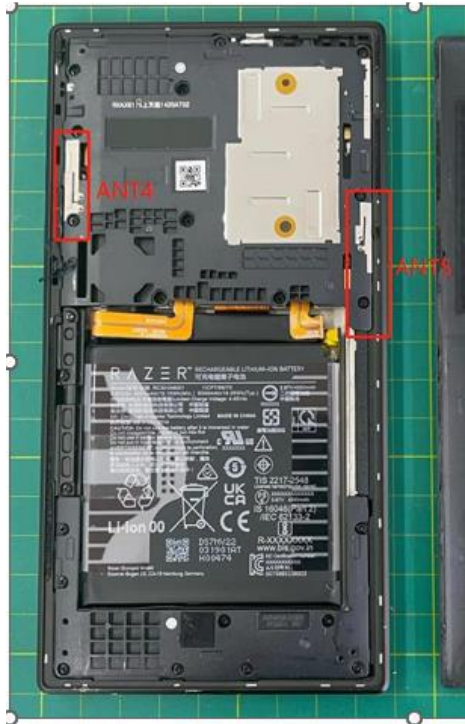
2: test system introduction:

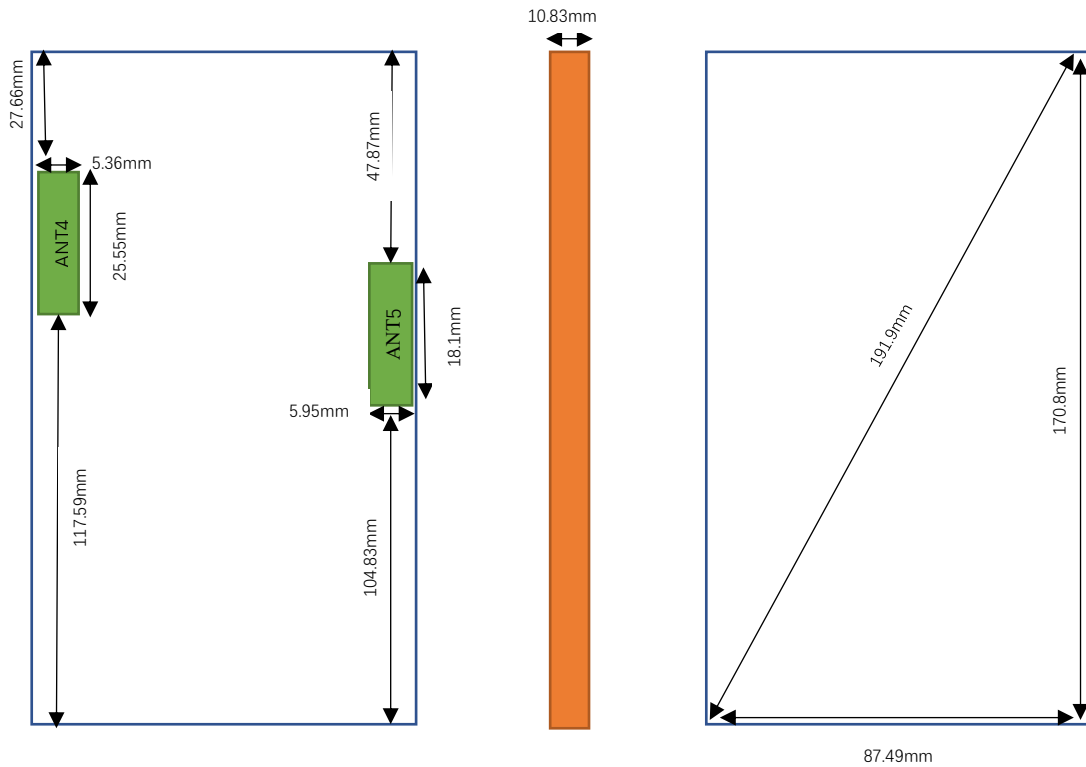
SG24 antenna test system uses 24 probes to electronically scan the radiation performance of cell phone antennas, and then collects data, analyzes and organizes them by computer, so as to confirm the performance of cell phone antennas.



3: Test result

Antenna placement:



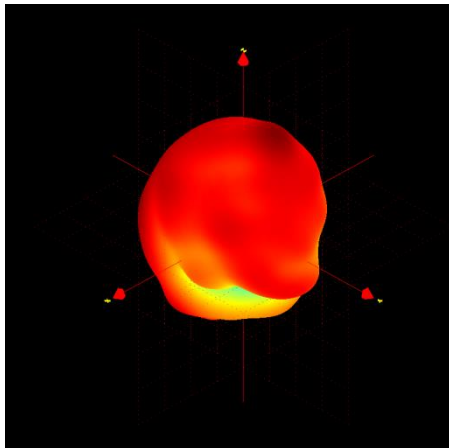


ANT4								
Freq[MHz]	WIFI 2.4G 2450	WIFI 5G 5200	WIFI 5G 5500	WIFI 5G 5800	WIFI 6E 6000	WIFI 6E 6200	WIFI 6E 6800	WIFI 6E 7100
AVG Gain[dBi]	-0.1	-0.8	-2.1	-1.7	-3.3	-3.5	-3.4	-3.5
Peak Gain[dBi]	0.4	-0.4	-1.6	-1.1	-3.2	-3.3	-3.1	-3.1
ANT5								
Freq[MHz]	WIFI 2.4G 2450	WIFI 5G 5200	WIFI 5G 5500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

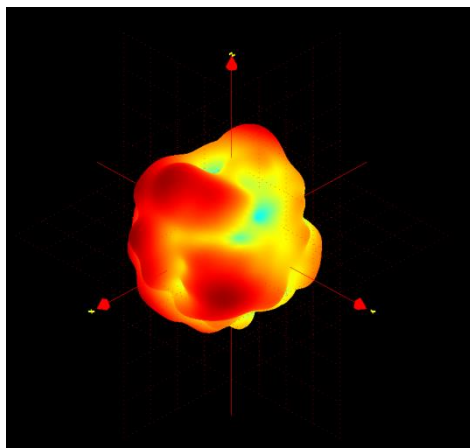
3D Pattern

ANT4 _ 2.4G(Frequency=2450MHz)

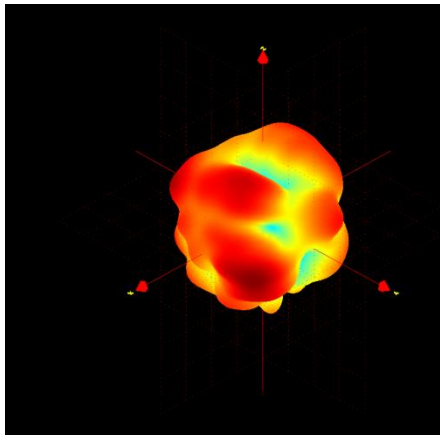
ANT4 _ 5G(Frequency=5200MHz)



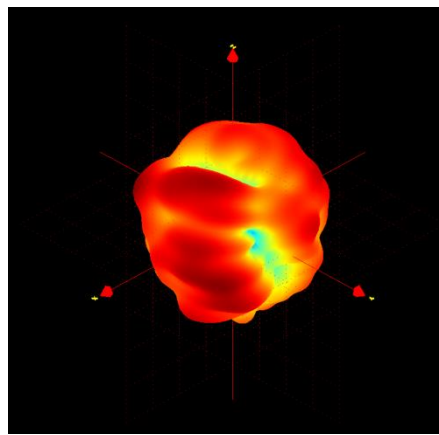
ANT4_5G(Frequency=5500MHz)



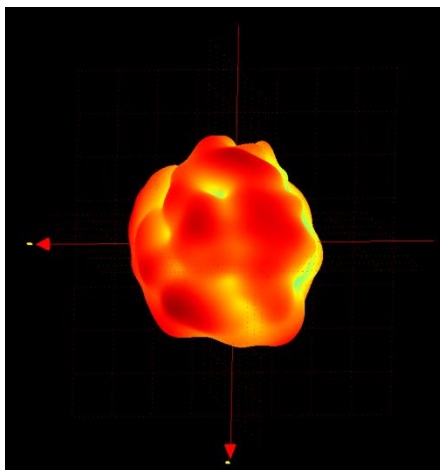
ANT4_5G(Frequency=5800MHz)



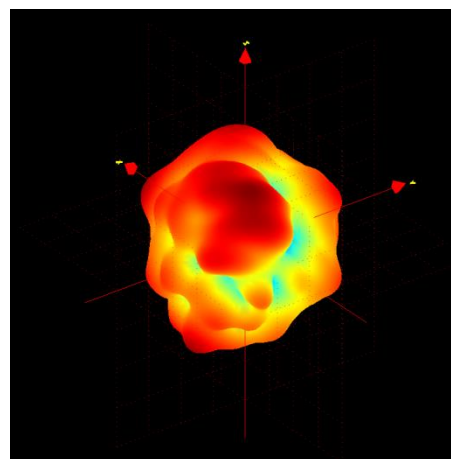
ANT4_6E(Frequency=6000MHz)



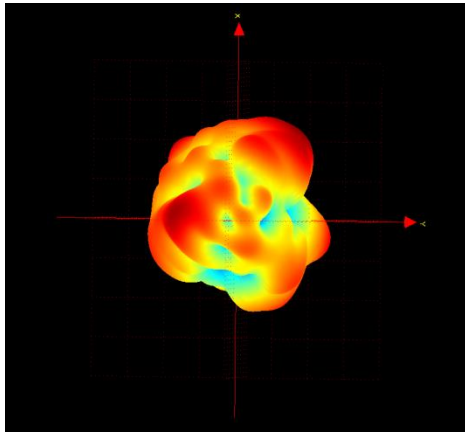
ANT4_6E(Frequency=6200MHz)



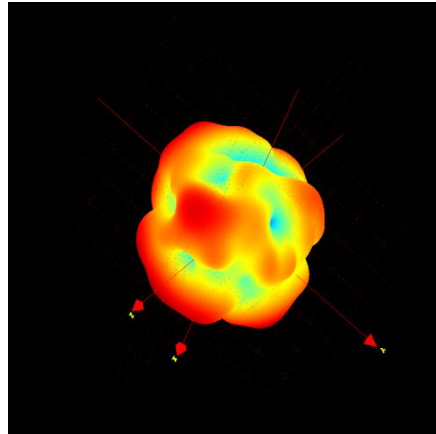
ANT4_6E(Frequency=6800MHz)



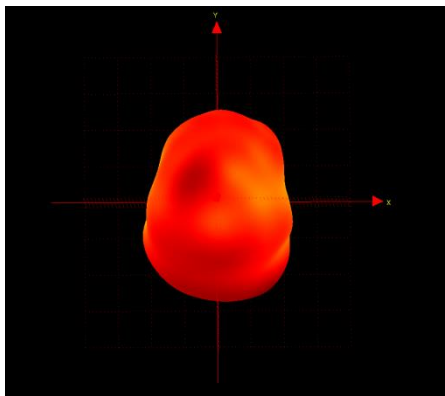
ANT4_6E(Frequency=7100MHz)



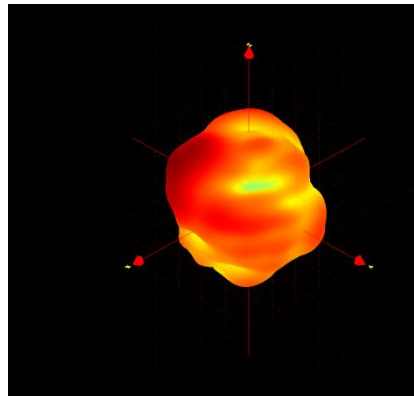
ANT5_2.4G(Frequency=2450MHz)



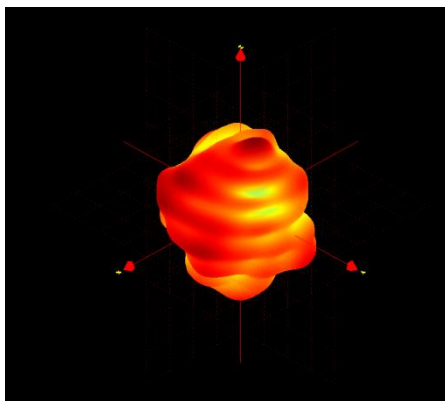
ANT5_5G(Frequency=5200MHz)



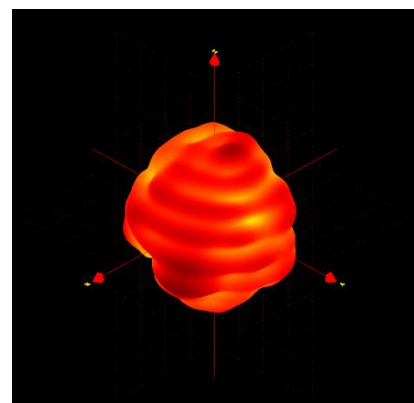
ANT5_5G(Frequency=5500MHz)



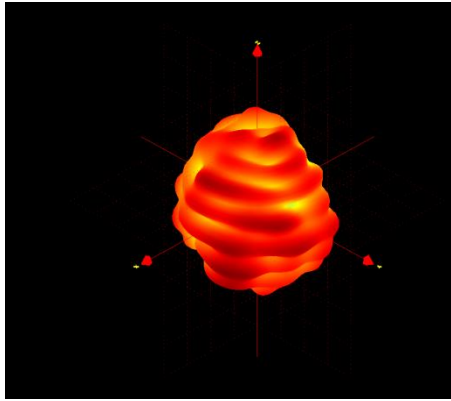
ANT5_5G(Frequency=5800MHz)



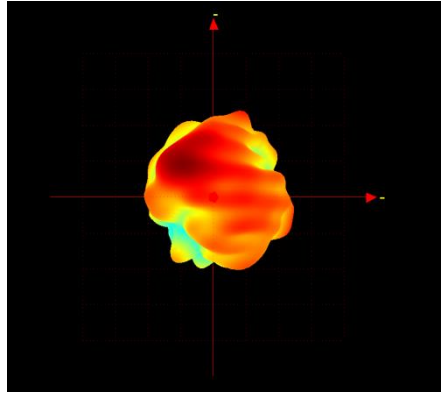
ANT5_6E(Frequency=6000MHz)



ANT5_6E(Frequency=6200MHz)



ANT5_6E(Frequency=6800MHz)



ANT5_6E(Frequency=7100MHz)

