

Antenna Test Report

Product model	DCT1VR2611
Frequency	2.4GHz+5GHz
Test purpose	Antenna performance test

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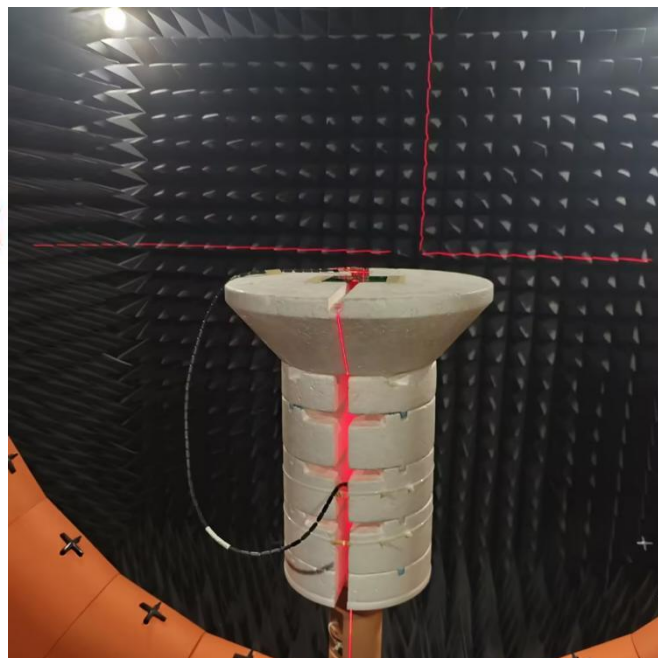
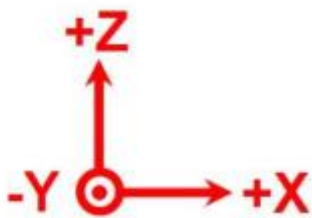
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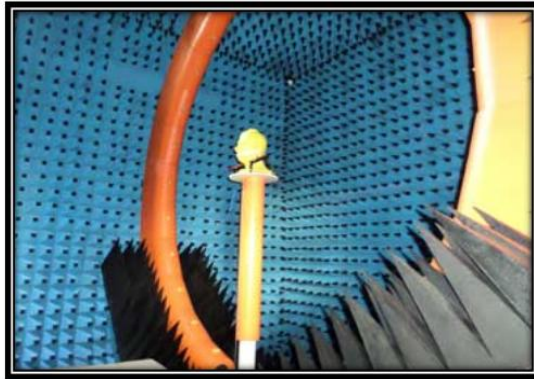
1. Antenna position

1.1 Product picture



2. Testing environment

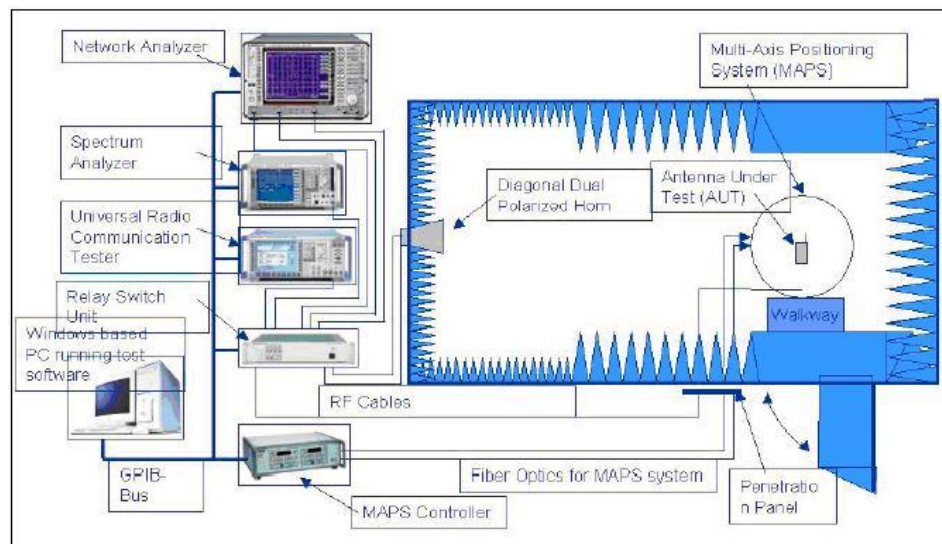
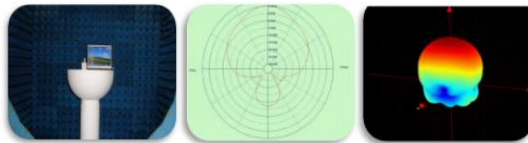




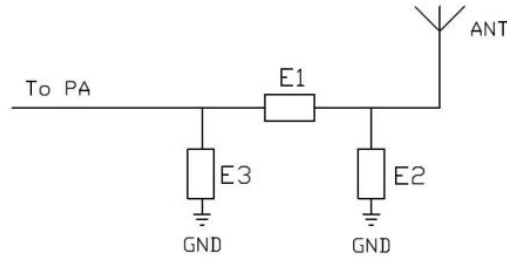
Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



3. Antenna matching

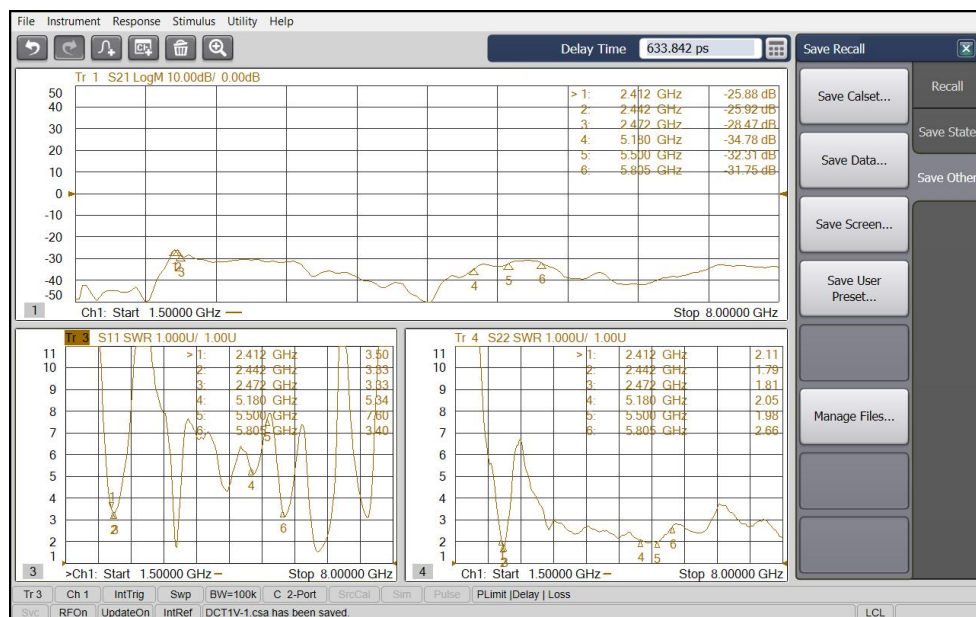


Matching Instructions	WiFi0(S22)	WiFi1(External antenna)	BT(S11)
E1	0 Ω	/	0 Ω
E2	/	/	/
E3	/	/	/

4. Antenna VSWR

4.1 WiFi0&BT

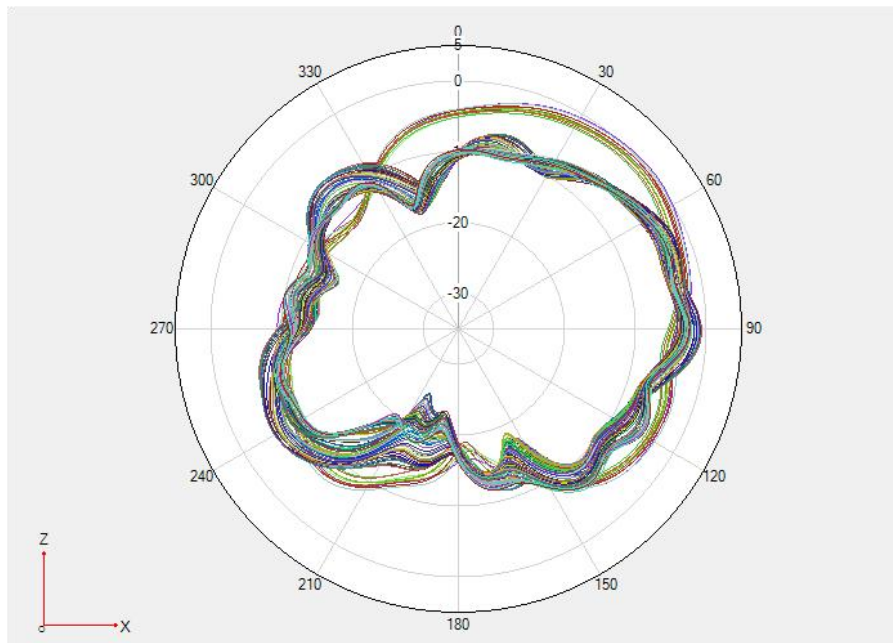
	2412	2442	2472	5180	5500	5805
WiFi0	2.11	1.79	1.81	2.05	1.98	2.66
BT	3.5	2.33	3.33			
Isolation	-25.88	-25.92	-28.47			



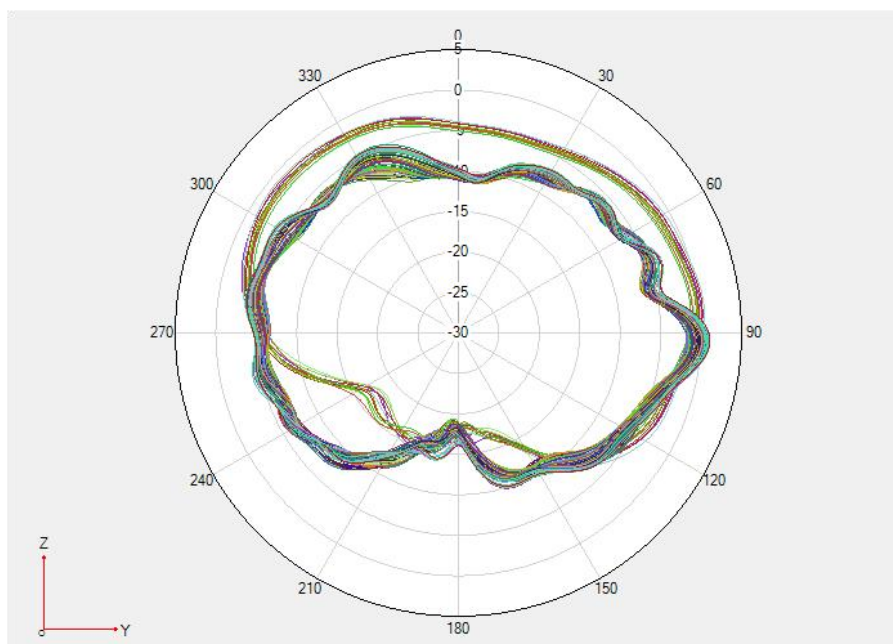
5. Antenna pattern

5.1 WIF10 pattern

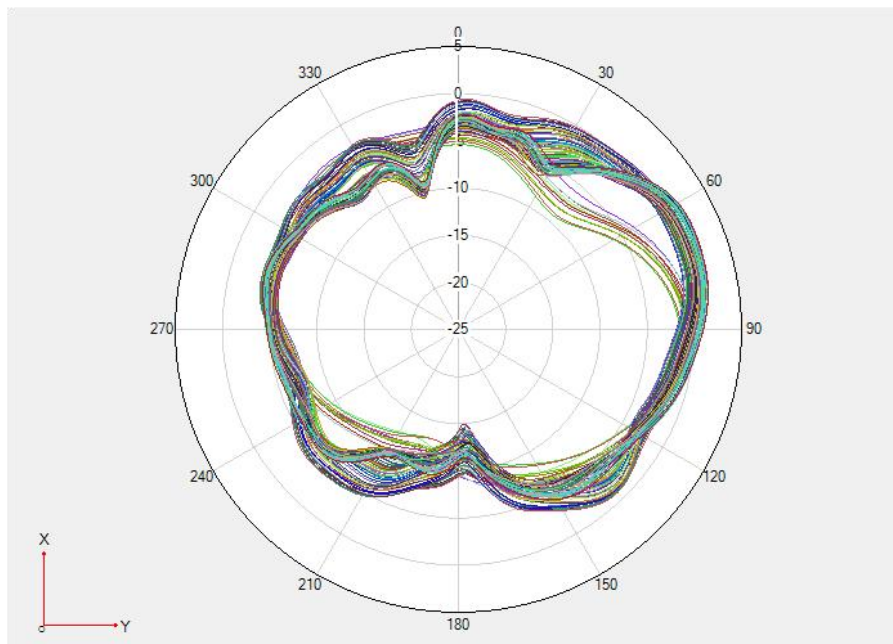
Phi 0 2D



Phi 90 2D

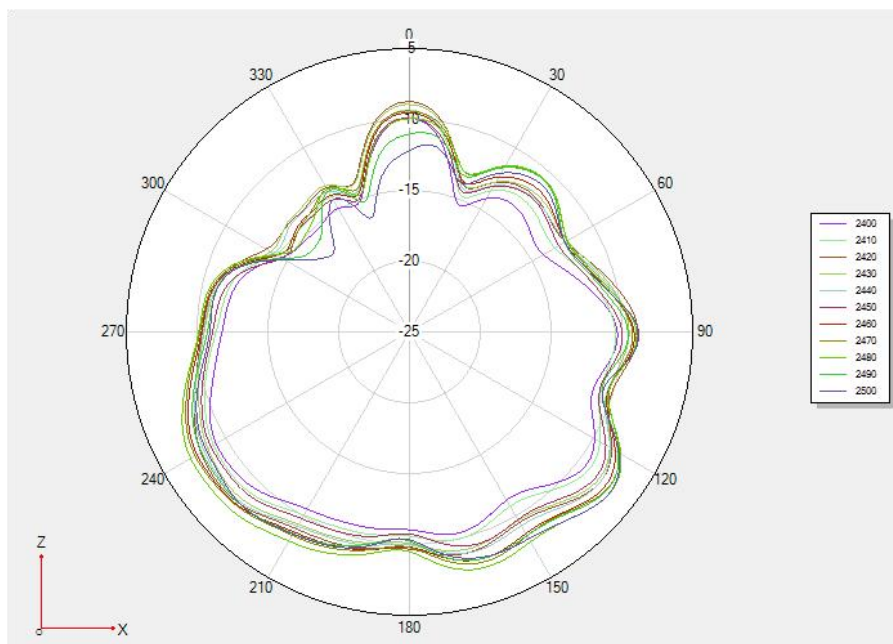


Theta 90

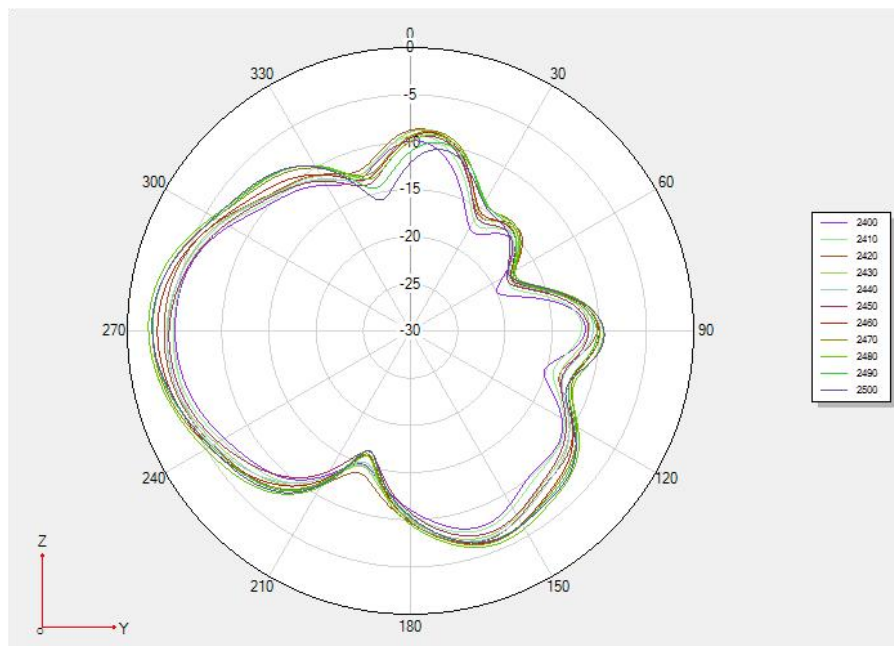


5.2 BT pattern

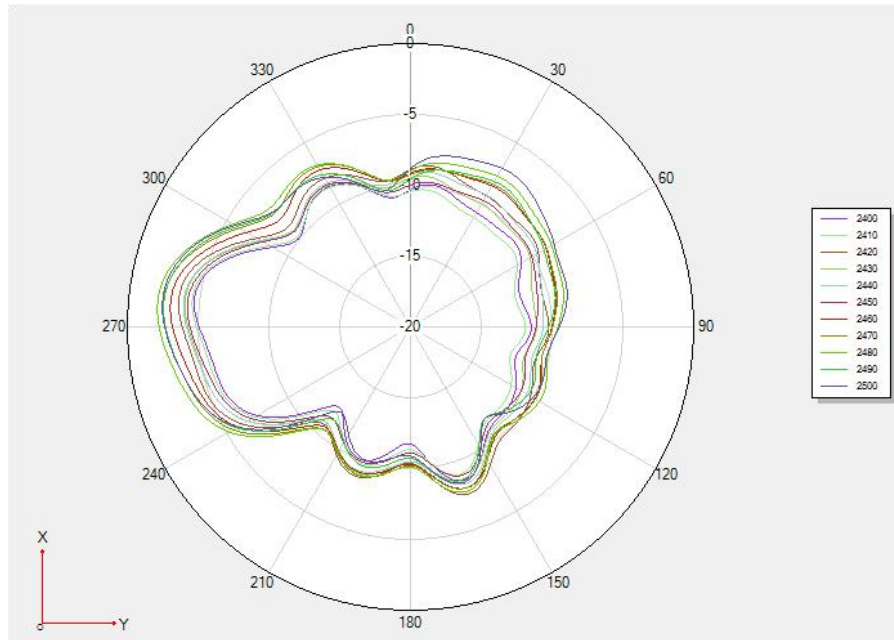
Phi 0 2D



Phi 90 2D



Theta 90 2D



6.Efficiency and Gain

6.1 WIFI0 Efficiency and Gain

Frequency/MHz	MaxGain/dBi	Efficiency / %
2400	0.35	49.43
2410	-0.63	40.93
2420	-0.16	44.46
2430	-0.31	43.15
2440	0.63	50.82
2450	0	43.65
2460	0.43	46.34
2470	-0.32	40.64
2480	-0.21	42.07
2490	-1	36.31
2500	-0.8	38.55
5150	1.05	46.24
5200	0.8	41.21
5250	0.8	40.27
5300	0.22	35.81
5350	0.34	32.89
5400	0.58	31.92
5450	0.18	28.58
5500	0.68	27.54
5550	0.84	27.93
5600	1	28.91
5650	1.37	28.84
5700	1.71	30.27
5750	1.48	30.41
5800	1.54	29.85

6.2 BT Efficiency and Gain

Frequency/MHz	MaxGain/dBi	Efficiency / %
2400	-4.61	6.93
2410	-4.45	7.62
2420	-3.53	9.23
2430	-3.9	8.69
2440	-3.85	8.67
2450	-4.13	7.96
2460	-2.96	9.79
2470	-2.46	10.81
2480	-2.06	11.56
2490	-2.5	10.47
2500	-2.39	10.84