

OTA REPORT

Applicant:

深圳市欧凯泰博科技有限公司

Shenzhenshi Oukaitaibo Technology Co., Ltd.

深圳市福田区华强北街道荔村社区华强北路 3012 号赛格科技园 2 栋西 828C

Address of Applicant:

Room 828C, West Building 2, Saige Technology Park, No. 3012, Huaqiang North Road, Licun Community, Huaqiang North Street, Futian District, Shenzhen

Equipment Under Test (EUT)

Product Name: Tablet computer

Model No.: WT1 Pro

Trade mark: ORCATAB

Applicable standards: GTS-ANT D-H

Date of sample receipt: 2025.12.13

Date of Test: 2025.12.13

Date of report issued: 2025.12.18

Test Result: 2025.12.18



Tested by:

Lin Lei/林磊

Date:

2025.12.29

Test Engineer

Reviewed by:

Chen Jinyuan/陈锦元

Date:

2025.12.29

Project Engineer

Lai Canhua/赖灿华

Lai Canhua

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OTA Results Summary

The maximum results of Over The Air (OTA) found during test as bellows:

<Total Radiated Power (TRP/TIS)Summary>

Frequency Band	Unit(MHz)	Reported Average Power OTA(Avg)	
2G		channel	TIS
GSM850	Low	27.73	-102.15
	Mid	27.77	
	High	27.58	-101.26
EGSM900	Low	26.68	-103.27
	Mid	27.32	
	High	28.03	-101.73
DCS1800	Low	23.95	-104.27
	Mid	24.55	
	High	25.26	-105.32
PCS1900	Low	25.11	-104.41
	Mid	24.75	
	High	25.01	-104.27

Frequency Band	Unit(MHz)	Reported Average Power OTA(Avg)	
3G		channel	TIS
WCDMA1	Low	17.28	
	Mid	18.11	
	High	18.25	-107.08
WCDMA2	Low	17.12	
	Mid	17.52	
	High	17.61	-107.25
WCDMA4	Low	17.33	
	Mid	17.86	
	High	18.34	-107.29
WCDMA5	Low	18.42	
	Mid	18.43	
	High	18.44	-105.14
WCDMA8	Low	18.37	
	Mid	18.55	
	High	18.26	-105.64

Frequency Band	Unit(MHz)	Reported Average Power OTA(Avg)	
4G		channel	TIS
FDD-B1(10M)	Low	17.48	
	Mid	17.57	
	High	18.18	-96.23
FDD-B2(10M)	Low	17.11	
	Mid	16.65	
	High	17.49	-96.47
FDD-B3(10M)	Low	17.51	
	Mid	18.24	

	High	18.32	-95.45
FDD-B4(10M)	Low	17.48	
	Mid	18.24	
	High	18.45	-96.29
FDD-B5(10M)	Low	17.56	
	Mid	17.83	
	High	18.24	-94.87
FDD-B7(10M)	Low	19.27	
	Mid	19.44	
	High	19.34	-92.25
FDD-B8(10M)	Low	18.37	
	Mid	18.61	
	High	18.74	-93.89
FDD-B12(10M)	Low	17.53	
	Mid	17.14	
	High	17.18	-93.28
FDD-B17(10M)	Low	17.36	
	Mid	17.48	
	High	17.04	-93.23
FDD-B18(10M)	Low	17.73	
	Mid	17.87	
	High	18.21	-94.31
FDD-B19(10M)	Low	18.09	
	Mid	18.28	
	High	18.34	-94.29
FDD-B20(10M)	Low	17.84	-94.13
	Mid	18.24	
	High	18.41	
FDD-B26(10M)	Low	18.05	
	Mid	17.79	
	High	18.29	-94.21
FDD-B28(10M)	Low	16.84	
	Mid	16.27	
	High	16.48	-94.44
FDD-B66(10M)	Low	18.25	
	Mid	18.24	
	High	18.45	-95.17
TDD-B38(20M)	Low	18.13	
	Mid	18.26	
	High	17.71	-92.87
TDD-B39(20M)	Low	16.11	
	Mid	16.23	
	High	16.39	-93.42
TDD-B40(20M)	Low	16.02	
	Mid	16.57	

	High	17.39	-94.16
TDD-B41(20M)	Low	18.25	
	Mid	18.63	
	High	18.43	-92.26

测试带宽	channel	TRP	TIS
802.11b : 11Mbps	1	13.21	-82.51
	7	13.44	-82.83
	13	13.18	-82.49
802.11a : 54Mbps	36	11.22	-71.55
	64	11.34	-71.57
	149	11.25	-71.27
	165	11.31	-71.22

channel	TRP	TIS
0	2.76	-86.62
39	3.44	-86.54
78	3.12	-86.41

3 General Information

3.1 Client Information

Applicant:	深圳市欧凯泰博科技有限公司 Shenzhenshi Oukaitaibo Technology Co., Ltd.
Address:	深圳市福田区华强北街道荔村社区华强北路 3012 号赛格科技园 2 栋西 828C Room 828C, West Building 2, Saige Technology Park, No. 3012, Huaqiang North Road, Licun Community, Huaqiang North Street, Futian District, Shenzhen
Manufacturer:	深圳市欧凯泰博科技有限公司 Shenzhenshi Oukaitaibo Technology Co., Ltd.
Address:	深圳市福田区华强北街道荔村社区华强北路 3012 号赛格科技园 2 栋西 828C Room 828C, West Building 2, Saige Technology Park, No. 3012, Huaqiang North Road, Licun Community, Huaqiang North Street, Futian District, Shenzhen

3.2 General Description of EUT

Product Name:	Tablet computer		
Model No.:	WT1 Pro		
Hardware Version:	OS_U 2.0		
Software Version:	ORCATAB_WT1Pr0_A15_V05_20251024		
Category of device	Portable device		
Modulation technology:	2G:	☒ RCM(QPSK)	☒ HSUPA(QPSK)
	3G	☒ RCM(QPSK)	☒ HSUPA(QPSK)
	4G:	☒ QPSK	☒ 16QAM
Antenna Type:	Internal Antenna		
Dimensions (L*W*H):			
Accessories information:			

Band		Mode	Name	Frequency	Antenna Type	Antenna Max Gain	
GSM Band	☒ Band-5 GSM 850			824-894	PIFA	0.63	dBi
	☒ Band-8 GSM 900			880-960		0.09	
	☒ Band-3 DCS 1800			1710-1880		-1.87	
	☒ Band-2 PCS 1900			1850-1990		-1.34	
UMTS Band	☒ Band-1 2100		IMT	1920-2170	PIFA	-1.37	dBi
	☒ Band-2 1900		PCS A-F	1850-1990		-1.87	
	☒ Band-4 1700/2100		AWS A-F	1710-2155		-1.34	
	☒ Band-5 850		CLR	824-894		0.63	
	☒ Band-8 900		E-GSM	880-960		0.09	

LTE	☒ Band-1 2100	FDD	IMT	1920-2170	PIFA	-1.37	dBi
	☒ Band-2 1900	FDD	PCS	1850-1990		-1.87	
	☒ Band-3 1800	FDD	DCS	1710-1880		-1.34	
	☒ Band-4 1700/2100	FDD	AWS	1710-2155		-1.34	
	☒ Band-5 850	FDD	CLR	824-894		0.63	
	☒ Band-7 2600	FDD	IMT-E	2500-2690		2.08	
	☒ Band-8 900	FDD	EGSM	880-960		0.09	
	☒ Band-12 700	FDD	LSMH	699-746		0.19	
	☒ Band-17 700	FDD	LSMH	704-746		0.19	
	☒ Band-18 800	FDD	Lower 800	815-875		0.63	
	☒ Band-19 800	FDD	Upper 800	830-890		0.63	
	☒ Band-20 800	FDD	EUDD	791-862		0.74	
	☒ Band-26 850	FDD	ECLR	814-894		0.63	
	☒ Band-28 700	FDD	APT	703-803		0.19	
	☒ Band-38 2600	TDD	IMT-E	2570-2620		1.91	
	☒ Band-39 1900	TDD	DCS-IMT Gap	1880-1920		-1.89	
	☒ Band-40 2300	TDD	S-Band	2300-2400		1.55	
	☒ Band-41 2500	TDD	BRS	2496-2690		1.91	
	☒ Band-66 1700	FDD	Extended AWS	1710-2200		-1.34	
WiFi	☒ 802.11b/g/n	2.4GHz	Wi-Fi 4	2401-2495	PIFA	-0.02	dBi
	☒ 802.11a/n/ac	5GHz	Wi-Fi 5	4910-5895		2.64	
BT	☒ Bluetooth			2400-2500	PIFA	-0.02	dBi
GPS	☒ Gps L1 Band			1575.42	PIFA	-0.01	dBi

3.3 Environment of Test Site

Temperature:	18°C ~25 °C
Humidity:	35%~75% RH
Atmospheric Pressure:	1010 mbar

3.4 Test Sample Plan

Sample Number	Used for Test Items
1#	OTA
Remark: SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD. is only responsible for the test project data of the above samples, and will keep the above samples for a month.	

3.5 Test Location

SHENZHEN HENGXIANGTONG ANTENNA TECHNOLOGY CO., LTD. Add: 606, Building E, Enterprise Aviation Technology Innovation Research and Development Industrial Park, No. 1008, Songbai Road, Sunshine Community, Xili Street, Nanshan District, Shenzhen

4 Introduction

4.1 Introduction

OTA is related to the performance at which material structure of the antenna of the product. The OTA-distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling..

4.2 OTA DUT positioning

The OTA test positioning is performed with reference to the minimum requirements of the ETSI TS 137 544 - 4.3.1 standard.

Spherical coordinate system

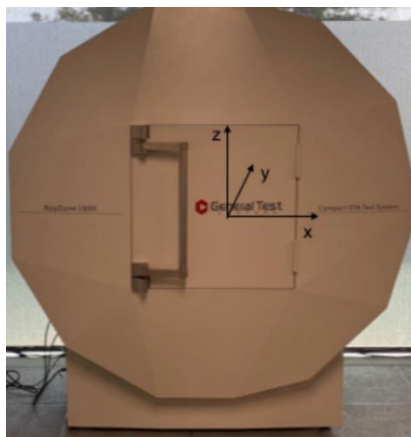


Figure 1 Test coordinate system

Note: Theta is from 0-180degree. Phi is from EUT and record the Date, the step of rotation is 15 degree.

4.3 OTA Minimum Requirements

The OTA TRP test、OTA TRS test is performed requirements with reference to the minimum requirements of the ETSI TS 137 544 -6 standard.

5 SAR Measurement System

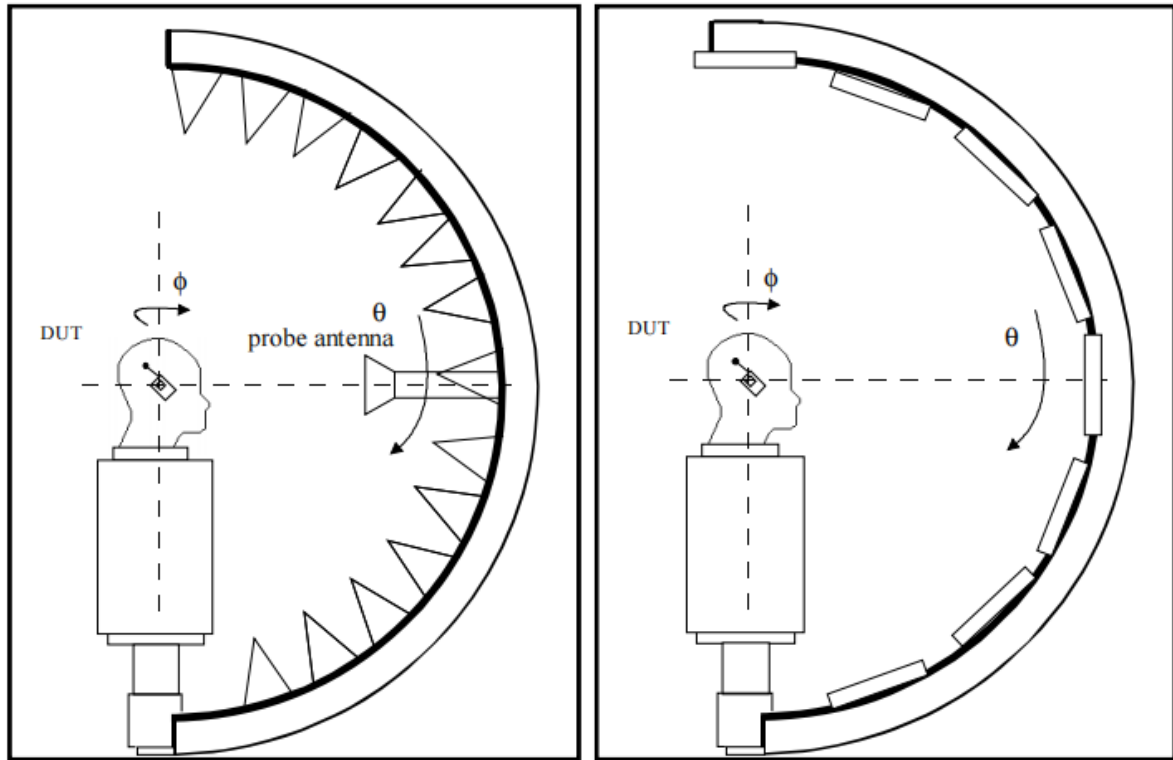
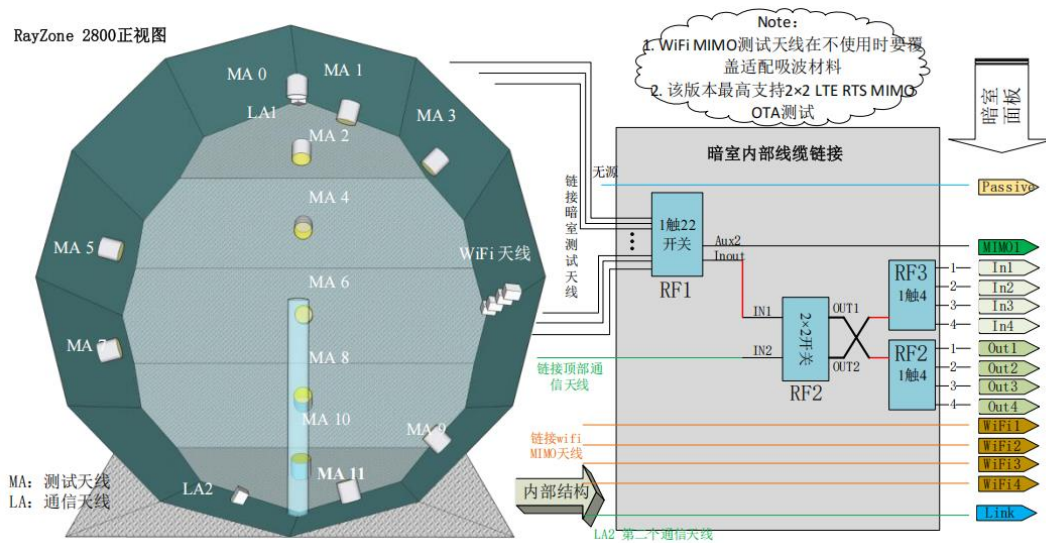


Fig.8.1 Spherical positioner system with a moving probe antenna (left), and with multiple probe antennas (right)



5.1 Test Equipment List

Manufacturer	Equipment Description	Model	Management Number	Cal. Information	
				Last Cal.	Due Date
R0HDE&SCHWARZ	CMW500 (测试设备)	CMW500	M406290298	10.28.2023	10.27.2026
Agilent	8960 (测试设备)	8960	MY47231243	10.28.2023	10.27.2026
MW Security AB	GTS-ANT D-H (暗室)	RayZone2800	01592C83	10.28.2023	10.27.2026

备注：以上设备清单至少包括如下：

1. 测试系统：，射频线、转台、发射天线、接收天线、信号发生器、网分功率计等

6 OTA Test Results Summary

6.1 TRP/TIS Data

Frequency Band	Unit(MHz)	Reported Average Power OTA(Avg)		
2G		channel	TRP	TIS
GSM850		Low	27.73	-102.15
		Mid	27.77	
		High	27.58	-101.26
EGSM900		Low	26.68	-103.27
		Mid	27.32	
		High	28.03	-101.73
DCS1800		Low	23.95	-104.27
		Mid	24.55	
		High	25.26	-105.32
PCS1900		Low	25.11	-104.41
		Mid	24.75	
		High	25.01	-104.27

Frequency Band	Unit(MHz)	Reported Average Power OTA(Avg)		
3G		channel	TRP	TIS
WCDMA1		Low	17.28	
		Mid	18.11	
		High	18.25	-107.08
WCDMA2		Low	17.12	
		Mid	17.52	
		High	17.61	-107.25
WCDMA4		Low	17.33	
		Mid	17.86	
		High	18.34	-107.29
WCDMA5		Low	18.42	
		Mid	18.43	
		High	18.44	-105.14
WCDMA8		Low	18.37	
		Mid	18.55	
		High	18.26	-105.64

Frequency Band	Unit(MHz)	Reported Average Power OTA(Avg)		
4G		channel	TRP	TIS
FDD-B1(10M)		Low	17.48	
		Mid	17.57	
		High	18.18	-96.23
FDD-B2(10M)		Low	17.11	

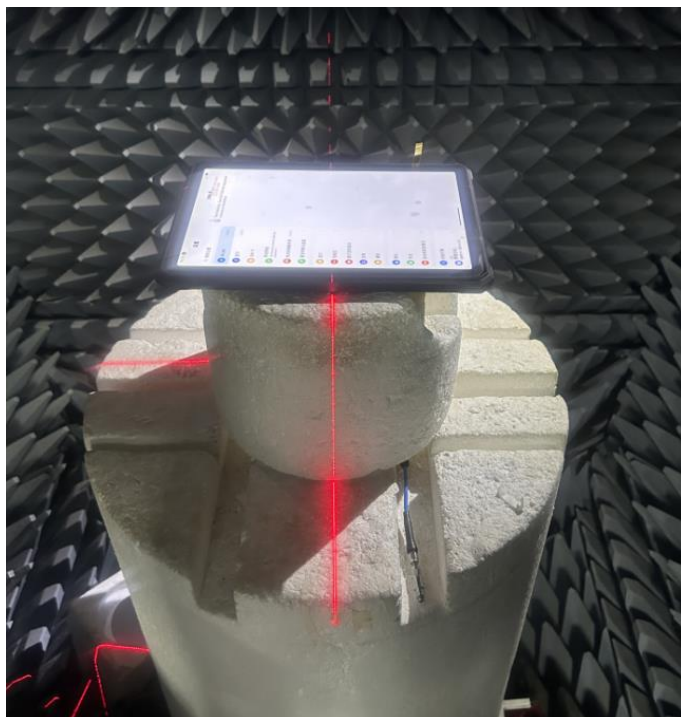
	Mid	16.65	
	High	17.49	-96.47
FDD-B3(10M)	Low	17.51	
	Mid	18.24	
	High	18.32	-95.45
FDD-B4(10M)	Low	17.48	
	Mid	18.24	
	High	18.45	-96.29
FDD-B5(10M)	Low	17.56	
	Mid	17.83	
	High	18.24	-94.87
FDD-B7(10M)	Low	19.27	
	Mid	19.44	
	High	19.34	-92.25
FDD-B8(10M)	Low	18.37	
	Mid	18.61	
	High	18.74	-93.89
FDD-B12(10M)	Low	17.53	
	Mid	17.14	
	High	17.18	-93.28
FDD-B17(10M)	Low	17.36	
	Mid	17.48	
	High	17.04	-93.23
FDD-B18(10M)	Low	17.73	
	Mid	17.87	
	High	18.21	-94.31
FDD-B19(10M)	Low	18.09	
	Mid	18.28	
	High	18.34	-94.29
FDD-B20(10M)	Low	17.84	-94.13
	Mid	18.24	
	High	18.41	
FDD-B26(10M)	Low	18.05	
	Mid	17.79	
	High	18.29	-94.21
FDD-B28(10M)	Low	16.84	
	Mid	16.27	
	High	16.48	-94.44
FDD-B66(10M)	Low	18.25	
	Mid	18.24	
	High	18.45	-95.17
TDD-B38(20M)	Low	18.13	

	Mid	18.26	
	High	17.71	-92.87
TDD-B39(20M)	Low	16.11	
	Mid	16.23	
	High	16.39	-93.42
TDD-B40(20M)	Low	16.02	
	Mid	16.57	
	High	17.39	-94.16
TDD-B41(20M)	Low	18.25	
	Mid	18.63	
	High	18.43	-92.26

测试带宽	channel	TRP	TIS
802.11b : 11Mbps	1	13.21	-82.51
	7	13.44	-82.83
	13	13.18	-82.49
802.11a : 54Mbps	36	11.22	-71.55
	64	11.34	-71.57
	149	11.25	-71.27
	165	11.31	-71.22

channel	TRP	TIS
0	2.76	-86.62
39	3.44	-86.54
78	3.12	-86.41

Appendix A :OTA Test Setup Photos



Appendix B :EUT Photos



-----End of report-----