

TEST REPORT

APPLICANT: Rhino Mobility LLC

PRODUCT NAME : Tablet

MODEL NAME : T100

BRAND NAME: RHINO

FCC ID : 2AUOUT100

STANDARD(S) : 47 CFR Part 15 Subpart B

RECEIPT DATE : 2023-05-08

TEST DATE : 2023-07-12

ISSUE DATE : 2023-07-28

Certification

Qual Service

Edited by:

Chen Bilian(Rapporteur)

Chen Bilian

Approved by: \(\times \int i \alpha \times \int i

Xiao Xiong(Supervisor)

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Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525
E-mail: service@morlab.cn





DIRECTORY

1. Technical Information
1.1. Applicant and Manufacturer Information
1.2. Equipment Under Test (EUT) Description
2. Test Results ······
2.1. Applied Reference Documents
2.2. EUT Setup and Operating Conditions
3. 47 CFR Part 15B Requirements
3.1. Conducted Emission
3.2. Radiated Emission 13
Annex A Test Uncertainty 20
Annex B Testing Laboratory Information 21

Change History				
Version	Date	Reason for Change		
1.0 2023-07-28		First edition		



1. Technical Information

Note: Provide by applicant

1.1. Applicant and Manufacturer Information

Applicant:	Rhino Mobility LLC	
Applicant Address:8 The Green, Suite A, Dover, Delaware,19901, USA		
Manufacturer:	Rhino Mobility LLC	
Manufacturer Address:	8 The Green, Suite A, Dover, Delaware,19901, USA	

1.2. Equipment Under Test (EUT) Description

Product Name:	Tablet		
EUT No.:	5#		
Hardware Version:	T8005_V1.0		
Software Version:	T100(001)_20230610		
Tx Frequency:	WCDMA Band II: 1850 MHz ~ 1910 MHz		
	WCDMA Band IV: 1710 MHz ~ 1755 MHz		
	WCDMA Band V: 824 MHz ~ 849 MHz		
	LTE Band 2: 1850 MHz ~ 1910 MHz		
	LTE Band 4: 1710 MHz ~ 1755 MHz		
	LTE Band 5: 824 MHz ~ 849 MHz		
	LTE Band 7: 2500 MHz ~ 2570 MHz		
	LTE Band 12: 699 MHz ~ 716 MHz		
	LTE Band 13: 777 MHz ~ 787 MHz		
	LTE Band 14: 788 MHz ~ 798 MHz		
	LTE Band 17: 704 MHz ~ 716 MHz		
	LTE Band 18: 815 MHz ~ 830 MHz		
	LTE Band 19: 830 MHz ~ 845 MHz		
	LTE Band 25: 1850 MHz ~ 1915 MHz		
	LTE Band 26: 814 MHz ~ 849 MHz		
	LTE Band 30: 2305 MHz ~ 2315 MHz		
	LTE Band 41: 2496 MHz ~ 2690 MHz		
	LTE Band 66: 1710 MHz ~ 1780 MHz		
	LTE Band 71: 663 MHz ~ 698 MHz		
	Bluetooth: 2402 MHz ~ 2480 MHz		
	802.11b/g/n: 2412 MHz ~ 2462 MHz		
	802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;		



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	5	5500 MHz ~ 5720 MHz; 5745 MHz ~ 5825 MHz		
		NFC: 13.56 MHz		
Rx Frequency:	WCDMA Band I	I: 1930 MHz ~ 1990 MHz		
	WCDMA Band I	WCDMA Band IV: 2110 MHz ~ 2155 MHz		
	WCDMA Band \	/: 869 MHz ~ 894 MHz		
	LTE Band 2: 193	LTE Band 2: 1930 MHz ~ 1990 MHz		
	LTE Band 4: 21	LTE Band 4: 2110 MHz ~ 2155 MHz		
	LTE Band 5: 869	LTE Band 5: 869 MHz ~ 894 MHz		
	LTE Band 7: 262	20 MHz ~ 2690 MHz		
	LTE Band 12: 72	29 MHz ~ 746 MHz		
	LTE Band 13: 7	46 MHz ~ 756 MHz		
	LTE Band 14: 7:	58 MHz ~ 768 MHz		
	LTE Band 17: 7:	34 MHz ~ 746 MHz		
	LTE Band 18: 8	60 MHz ~ 875 MHz		
	LTE Band 19: 8	75 MHz ~ 890 MHz		
	LTE Band 25: 1	930 MHz ~ 1995 MHz		
	LTE Band 26: 8	59 MHz ~894 MHz		
	LTE Band 29: 7	17 MHz ~ 728 MHz		
	LTE Band 30: 23	350 MHz ~ 2360 MHz		
	LTE Band 41: 24	LTE Band 41: 2496 MHz ~ 2690 MHz		
	LTE Band 66: 2	LTE Band 66: 2110 MHz ~ 2200 MHz		
	LTE Band 71: 6	LTE Band 71: 617 MHz ~ 652 MHz		
	Bluetooth: 2402	Bluetooth: 2402 MHz ~ 2480 MHz		
	802.11b/g/n: 24	802.11b/g/n: 2412 MHz ~ 2462 MHz		
	802.11a/ac/n: 51	180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;		
	5	500 MHz ~ 5720 MHz; 5745 MHz ~ 5825 MHz		
	NFC: 13.56 MH	Z		
CA_UL:	CA_7C, CA_410	3		
Accessory:	AC Adapter	_		
	Brand Name:	RHINO		
	Model No.:	TPA-10S120150UU01		
	Serial No.: (N/A, marked #1 by test			
	Rated Input:	100-240V~50/60Hz, 0.5A		
	Rated Output: 3.6-6.0V=3.0A, 6.0-9.0V=2.0A,			
	·	9.0-12.0V=1.5A		
	Manufacturer:	Shenzhen Tianyin Electronics Co., Ltd.		
	Battery			
	Brand Name:	N/A		
	Model No.:	BPT100		
	1			





Serial No.: (N/A, marked #1 by test site) Capacity: 6000mAh Rated Voltage: 3.85V Charge Limit: 4.4V Manufacturer: Huizhou Highpower Technology Co., Ltd. USB Cable 1 Model: 188.123022001-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 2 Model: 188.123022002-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 3 Model: USB TYPE A TO C 2.0 Cable 2.0m Manufacturer: CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m Manufacturer: HUIZHOU WASHIN ELECTRONICTS CO.,LTD. Manufacturer: HUIZHOU WASHIN ELECTRONICTS CO.,LTD.			
Rated Voltage: 3.85V Charge Limit: 4.4V Manufacturer: Huizhou Highpower Technology Co., Ltd. USB Cable 1 Model: 188.123022001-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 2 Model: 188.123022002-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 3 Model: USB TYPE A TO C 2.0 Cable 2.0m HUIZHOU WASHIN ELECTRONICTS CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	Serial No.:	(N/A, marked #1 by test site)	
Charge Limit: 4.4V Manufacturer: Huizhou Highpower Technology Co., Ltd. USB Cable 1 Model: 188.123022001-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 2 Model: 188.123022002-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 3 Model: USB TYPE A TO C 2.0 Cable 2.0m HUIZHOU WASHIN ELECTRONICTS CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	Capacity:	6000mAh	
Manufacturer: Huizhou Highpower Technology Co., Ltd. USB Cable 1 Model: 188.123022001-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 2 Model: 188.123022002-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 3 Model: USB TYPE A TO C 2.0 Cable 2.0m HUIZHOU WASHIN ELECTRONICTS CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	Rated Voltage:	3.85V	
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Model: 188.123022001-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 2 Model: 188.123022002-09 Manufacturer: Yibin Ruirun Electronics Co., Ltd. USB Cable 3 Model: USB TYPE A TO C 2.0 Cable 2.0m Manufacturer: HUIZHOU WASHIN ELECTRONICTS CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m Manufacturer: HUIZHOU WASHIN ELECTRONICTS	Manufacturer:	Huizhou Highpower Technology Co., Ltd.	
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Model: USB TYPE A TO C 2.0 Cable 2.0m Manufacturer: HUIZHOU WASHIN ELECTRONICTS CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	Model:	188.123022002-09	
Model: USB TYPE A TO C 2.0 Cable 2.0m HUIZHOU WASHIN ELECTRONICTS CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	Manufacturer:	Yibin Ruirun Electronics Co., Ltd.	
Manufacturer: HUIZHOU WASHIN ELECTRONICTS CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	USB Cable 3		
Manufacturer: USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	Model:	USB TYPE A TO C 2.0 Cable 2.0m	
Wanufacturer: CO.,LTD. USB Cable 4 Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	Manufacturar	HUIZHOU WASHIN ELECTRONICTS	
Model: USB TYPE A TO C 2.0 Cable 1.0m HUIZHOU WASHIN ELECTRONICTS	wanuracturer:	CO.,LTD.	
Manufacturer: HUIZHOU WASHIN ELECTRONICTS	USB Cable 4		
Manufacturer:	Model:	USB TYPE A TO C 2.0 Cable 1.0m	
CO.,LTD.	Manufacturor:	HUIZHOU WASHIN ELECTRONICTS	
	manaratata.	CO.,LTD.	

Note:

- There are four kinds of USB Cables, all USB Cables have been tested for RE. For the CE and RE, only the worst case (USB Cable 1) is recorded in this report.
- 2. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.



2. Test Results

2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination Remark
1	15.107	Conducted Emission	2023.07.12	Fan Zehang	PASS	No deviation
2	15.109	Radiated Emission	2023.07.12	Lin Jiayong	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

Note 2:Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

Shenzhen Morlab Communications Technology Co., Ltd.

FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,

Block67, BaoAn District, ShenZhen ,GuangDong Province, P. R. China





2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Mode 1 : EUT + WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 2 : EUT + WCDMA Band IV Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 3 : EUT + WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 3 : EUT + WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 4 : EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 5 : EUT + LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 6 : EUT + LTE Band 5 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 7 : EUT + LTE Band 7 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 8 : EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 9 : EUT + LTE Band 13 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 10 : EUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 11 : EUT + LTE Band 17 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 12 : EUT + LTE Band 19 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 13 : EUT + LTE Band 19 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 14 : EUT + LTE Band 29 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 15 :	Test Item		
Adapter + USB Cable (Charging from Adapter) + Earphone Mode 2 : EUT + WCDMA Band IV Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 3 : EUT + WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 4 : EUT + LTE Band 2 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 5 : EUT + LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 6 : EUT + LTE Band 5 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 7 : EUT + LTE Band 7 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable (Charging from Adapter) + Earphone Mode 8 : EUT + LTE Band 7 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 9 : EUT + LTE Band 13 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 9 : EUT + LTE Band 13 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 10 : EUT + LTE Band 14 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 11 : EUT + LTE Band 17 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 13 : EUT + LTE Band 18 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 14 : EUT + LTE Band 19 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 15 : EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 16 : EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB			EUT + WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC
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USB Cable (Charging from Adapter) + Earphone Mode 13: EUT + LTE Band 19 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapted USB Cable (Charging from Adapter) + Earphone Mode 14: EUT + LTE Band 25 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 15: EUT + LTE Band 26 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 16: EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 17: EUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter	Mada 40		
 Mode 13: EUT + LTE Band 19 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 14: EUT + LTE Band 25 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 15: EUT + LTE Band 26 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 16: EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 17: EUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter 	Mode 12	:	
USB Cable (Charging from Adapter) + Earphone Mode 14: EUT + LTE Band 25 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 15: EUT + LTE Band 26 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 16: EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 17: EUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter	Mode 12		
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USB Cable (Charging from Adapter) + Earphone Mode 15: EUT + LTE Band 26 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapted USB Cable (Charging from Adapter) + Earphone Mode 16: EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 17: EUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter	Mode 14		, , , , , ,
Mode 15 : EUT + LTE Band 26 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 16 : EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 17 : EUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter	WOUG 14	•	·
USB Cable (Charging from Adapter) + Earphone Mode 16: EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter	Mode 15		
Mode 16 : EUT + LTE Band 29 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter USB Cable (Charging from Adapter) + Earphone Mode 17 : EUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter	Mode 10	•	·
USB Cable (Charging from Adapter) + Earphone Mode 17: EUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapte	Mode 16	:	
Mode 17: EUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapte		•	·
	Mode 17	:	
USB Cable (Charging from Adapter) + Earphone	-		



	+ Earphone + PC + PC Adapter + Data Transmission
Mode 24:	EUT + LTE Band 7 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
	+ USB Cable (Charging from Adapter) + Earphone + Rear Camera Mode
Mode 23:	EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter
	+ USB Cable (Charging from Adapter) + Earphone
Mode 22 :	EUT + CA_41C Idle + Bluetooth Idle + 5G WLAN Idle + NFC + Battery + AC Adapter
	Cable (Charging from Adapter) + Earphone
Mode 21:	EUT + CA_7C Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB
	USB Cable (Charging from Adapter) + Earphone
Mode 20:	EUT + LTE Band 71 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter +
	USB Cable (Charging from Adapter) + Earphone
Mode 19:	EUT + LTE Band 66 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter +
	USB Cable (Charging from Adapter) + Earphone
Mode 18:	EUT + LTE Band 41 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter +

Remark:

The above test mode in boldface (Mode 23) was the worst case of conducted emission test, only the test data of these modes were reported. The above test mode in boldface (Mode 24) was the worst case of radiated emission test, only the test data of these modes were reported.

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106





3. 47 CFR Part 15B Requirements

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a $50\mu H/50\Omega$ line impedance stabilization network (LISN).

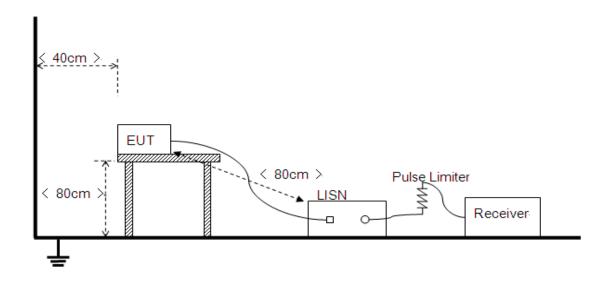
Frequency Range	Frequency Range Conducted Limit (dE		
(MHz)	Quasi-peak	Average	
0.15 - 0.50	66 to 56	56 to 46	
0.50 - 5	56	46	
5 - 30	60	50	

NOTE:

- a) The limit subjects to the Class B digital device.
- b) The lower limit shall apply at the band edges.
- c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz.

3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.





The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu H$ of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

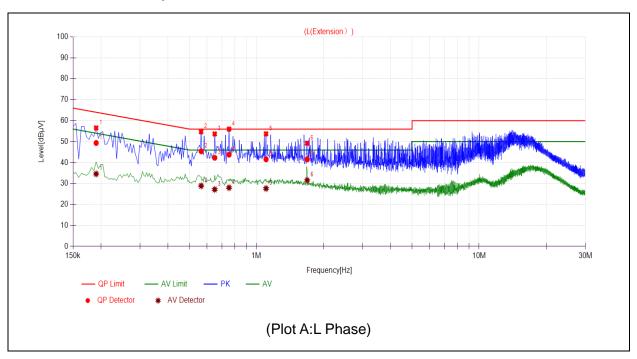
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

3.1.3. Test Result

Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

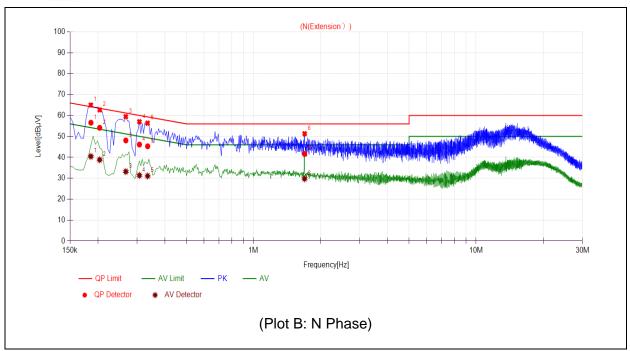


A. Test Plot and Suspicious Points:



No	Fre.	Emission Level (dBµV)		Limit (c	dΒμV)	Power-line	Vordiot
No.	(MHz)	Quasi-peak	Average	Quasi-peak	Average	Power-line	Verdict
1	0.1905	49.36	34.60	64.01	54.01		PASS
2	0.5645	45.39	28.89	56.00	46.00		PASS
3	0.6494	42.30	27.19	56.00	46.00	Line	PASS
4	0.7530	43.78	28.01	56.00	46.00		PASS
5	1.1041	41.55	27.64	56.00	46.00		PASS
6	1.6892	41.56	31.55	56.00	46.00		PASS





No.	Fre.	Emission Level (dBµV)		Limit (d	dΒμV)	Dower line	Verdict
NO.	(MHz)	Quasi-peak	Average	Quasi-peak	Average	Power-line	verdict
1	0.1861	56.56	40.43	64.21	54.21		PASS
2	0.2038	54.13	38.83	63.45	53.45		PASS
3	0.2671	48.08	33.19	61.21	51.21]	PASS
4	0.3074	46.11	31.36	60.04	50.04	Neutral	PASS
5	0.3347	45.29	31.07	59.33	49.33		PASS
6	1.6964	41.64	29.76	56.00	46.00		PASS

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3.2. Radiated Emission

3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field Strength Limitation	Field Strength Limitation at 3m Measurement Dist				
Range (MHz)	(μV/m)	(dBµV/m)				
30.0 - 88.0	100	20log 100				
88.0 - 216.0	150	20log 150				
216.0 - 960.0	200	20log 200				
Above 960.0	500	20log 500				

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed indBμV/m is calculated by 20log Emission Level(μV/m).

3.2.2. Frequency Range of Measurement

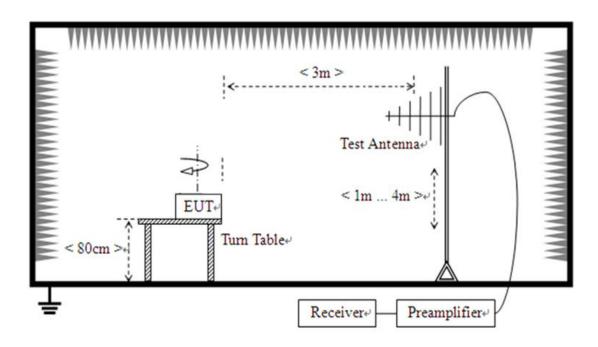
According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

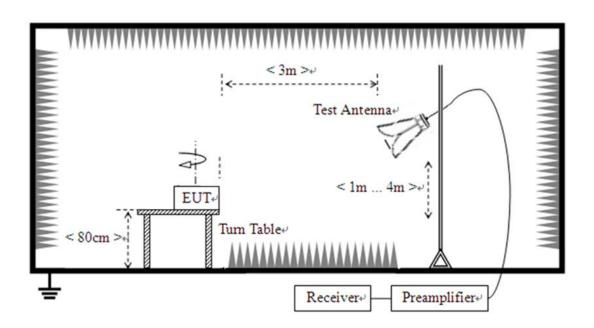


3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz







The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

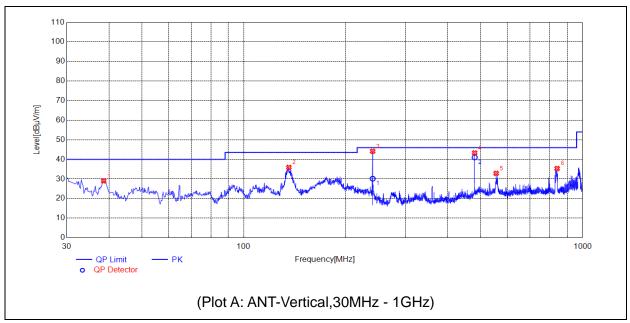
3.2.4. Test Result

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions which (6GHz-30GHz) are attenuated more than 20 dB below the permissible value need not be reported.

Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.

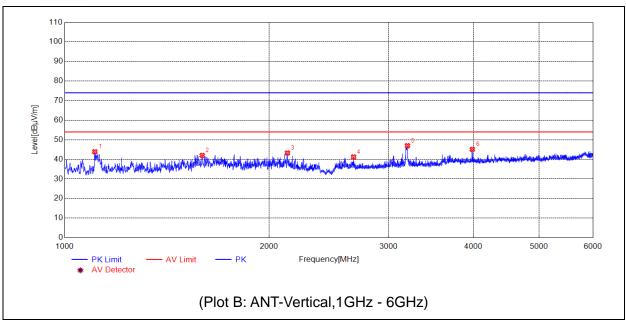




No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBμV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	38.5377	28.96	N.A	N.A	N.A	40.00	N.A	V	PASS
2	135.7512	35.89	N.A	N.A	N.A	43.50	N.A	>	PASS
3	239.9500	44.13	30.12	N.A	N.A	46.00	N.A	>	PASS
4	479.9760	43.31	41.00	N.A	N.A	46.00	N.A	V	PASS
5	555.6511	32.87	N.A	N.A	N.A	46.00	N.A	٧	PASS
6	840.8882	35.33	N.A	N.A	N.A	46.00	N.A	V	PASS

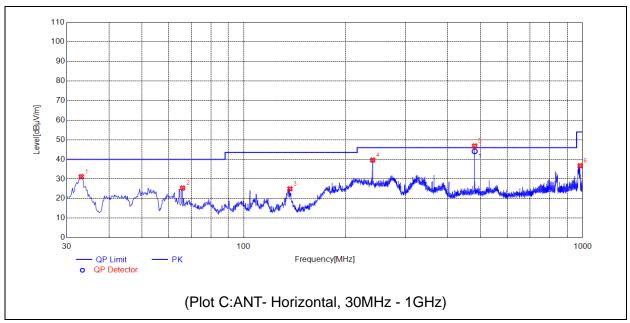
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No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBμV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1107.0214	43.91	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1594.1188	42.02	N.A	N.A	74.00	N.A	54.00	V	PASS
3	2128.2256	43.26	N.A	N.A	74.00	N.A	54.00	V	PASS
4	2664.3329	41.24	N.A	N.A	74.00	N.A	54.00	V	PASS
5	3198.4397	46.97	N.A	N.A	74.00	N.A	54.00	V	PASS
6	3986.5973	45.14	N.A	N.A	74.00	N.A	54.00	V	PASS

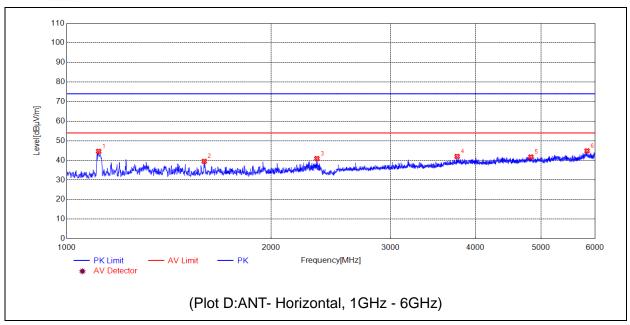




No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBμV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	33.1046	31.16	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	65.8972	25.33	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	136.7213	24.95	N.A	N.A	N.A	43.50	N.A	Н	PASS
4	239.9500	39.65	N.A	N.A	N.A	46.00	N.A	Н	PASS
5	479.9760	46.86	44.10	N.A	N.A	46.00	N.A	Н	PASS
6	982.7305	36.73	N.A	N.A	N.A	54.00	N.A	Н	PASS

Tel: 86-755-36698555





No	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBμV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1114.0228	44.61	N.A	N.A	74.00	N.A	54.00	Н	PASS
2	1594.1188	39.49	N.A	N.A	74.00	N.A	54.00	Н	PASS
3	2336.2673	40.93	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	3760.5521	42.01	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	4829.7660	41.72	N.A	N.A	74.00	N.A	54.00	Н	PASS
6	5844.9690	44.86	N.A	N.A	74.00	N.A	54.00	Н	PASS

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Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for	9kHz-150kHz	±3.3dB
a Level of Confidence of	150kHz-30MHz	±2.8dB
95%(U=2Uc(y))		

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for	30MHz-200MHz	±5.06dB
a Level of Confidence of	200MHz-1000MHz	±5.04dB
95%(U=2Uc(y))	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB





Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	FL.3, Building A, FeiYang Science Park, No.8 LongChang
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

3. Accreditation Certificate

Accredited Testing	The FCC designation number is CN1192.	
Laboratory:	Test firm registration number is 226174.	
	(Shenzhen Morlab Communications Technology Co., Ltd.)	

4. Test Software Utilized

Model	Version Number	Producer
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[JS32-CE]	Version 2.5.0.0	Tonscend





5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-274	SCHWARZBECK	2022/11/7	2025/11/6
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBECK	2022/5/25	2025/5/24
Horn Antenna	BBHA 9120D	9120D-963	SCHWARZBECK	2022/5/25	2025/5/24
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2022/7/13	2025/7/12
Horn Antenna	BBHA9170	BBHA9170 #773	SCHWARZBECK	2022/7/14	2025/7/13
Receiver	N9038A	MY541300 16	Agilent	2023/6/21	2024/6/20
Receiver	N9038A	MY564000 93	KEYSIGHT	2023/2/9	2024/2/8
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2022/10/11	2023/10/10
Preamplifier	S020180L3203	61171/611 72	LUCIX CORP.	2023/6/27	2024/6/26
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2023/6/27	2024/6/26
Preamplifier	DCLNA0118-40 C-S	DS77209	Decentest	2022/7/23	2023/7/22
RF Coaxial Cable	PE330	MRE001	Pasternack	N/A	N/A
RF Coaxial Cable	CLU18	MRE002	Pasternack	N/A	N/A
RF Coaxial Cable	CLU18	MRE003	Pasternack	N/A	N/A
RF Coaxial Cable	QA360-40-KK- 0.5	22290045	Qualwave	N/A	N/A
RF Coaxial Cable	QA360-40-KKF -2	22290046	Qualwave	N/A	N/A
RF Coaxial Cable	QA500-18-NN- 5	22120181	Qualwave	N/A	N/A
RF Coaxial Cable	BNC	MRE04	Qualwave	N/A	N/A
Receiver	ESPI	101052	R&S	2023/6/21	2024/6/20
LISN	NSLK 8127	8127449	Schwarzbeck	2023/2/21	2024/2/20
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBECK	2023/6/27	2024/6/26
System Simulator	CMW500	152038	R&S	2022/10/11	2023/10/10



6. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
Earphone	Орро	N/A	N/A
PC	DELL	VOSTRO 5370	DF2DR A01 DPC
PC Adapter	DELL	LA45NM140	OKXTTW

END OF REPORT	