

Report No.:	TW2206057-01E
File reference No.:	2022-06-21
Applicant:	Shenzhen Jingwah Information Technology Co., Ltd.
Product:	Tablet PC
Model No.:	ST8888, ST8888D, ST8888 CA, ST8888DPK, ST8888DBL
Trademark:	Smartab
Test Standards:	FCC Part 15.249
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility
Approved By	
Terry Tang	
Terry Tang	
Manager	

Dated:

June 21, 2022

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



## **Special Statement**:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

## CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

## Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

## A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

## CAB identifier: CN0033

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### 1.0 General Details

1.1 Test Lab Details

Name :SHENZHEN TIMEWAY TESTING LABORATORIES.Address:Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le<br/>Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996

Site on File with the Federal Communications Commission - United Sates

Registration Number: 744189

For 3m Anechoic Chamber

### 1.2 Applicant Details

 Applicant: Shenzhen Jingwah Information Technology Co., Ltd.
 Address: 6F, Bldg.4, Jinghua Square, No. 168, Zhenzhong Rd., Fuqiang Community, Huaqiangbei, Futian District, Shenzhen
 Telephone: - Fax: --

#### 1.3 Description of EUT

1	
Product:	Tablet PC
Manufacturer:	Shenzhen Jingwah Information Technology Co., Ltd.
Address:	6F, Bldg.4, Jinghua Square, No. 168, Zhenzhong Rd., Fuqiang Community,
	Huaqiangbei, Futian District, Shenzhen
Trademark:	Smartab
Model Number:	ST8888
Additional Model Name	ST8888D, ST8888 CA, ST8888DPK, ST8888DBL
Rating:	DC5V, 2A
Battery:	DC3.7V, 3500mAh Li-ion battery
Power Supply:	Model: TPA-46050200UU
	Input: 100-240V~, 50/60Hz, 0.3A; Output: 5V, 2.0A
Modulation Type:	GFSK, $\pi$ /4DQPSK, 8DPSK
Operation Frequency:	2402-2480MHz
Channel Number:	79
Channel Separation:	1MHz
Hardware Version:	A863K-68T5F
Software Version:	ST8888_V01_22061721
Serial No.:	ST8888202205000001

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Antenna Designation FPC antenna with gain 1.42dBi Max (Get from the antenna specification)

- 1.4 Submitted Sample: 2 Sample
- 1.5 Test Duration 2022-06-07 to 2022-06-21
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

#### 1.7 Test Engineer

The sample tested by



Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100294	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100253	2022-06-17	2023-06-16
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-06-17	2023-06-16
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2022-06-17	2023-06-16
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2022-06-17	2023-06-16
Power sensor	Anritsu	MA2491A	32263	2022-06-17	2023-06-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2022-06-17	2023-06-16
EMI Test Receiver	RS	ESH3	860904/006	2022-06-17	2023-06-16
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2022-06-17	2023-06-16
Spectrum	HP/Agilent	E4407B	MY50441392	2022-06-17	2023-06-16
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-06-17	2023-06-16
RF Cable	Zhengdi	7m		2022-06-17	2023-06-16
RF Switch	EM	EMSW18	060391	2022-06-17	2023-06-16
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-06-17	2023-06-16
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-06-17	2023-06-16
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

#### 2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

#### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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#### **3.0** Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies	
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies	

#### **3.2** Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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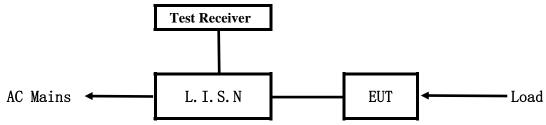
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### 5. Power Line Conducted Emission Test

5.1 Schematics of the test

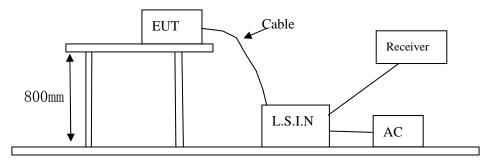


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4 –2014. Test Voltage: 120V~, 60Hz

Block diagram of Test setup



## 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 79 channels are provided to the EUT

A.	EUT

Device	Manufacturer	Model	FCC ID	
Tablet PC	Shenzhen Jingwah Information Technology Co., Ltd.	ST8888, ST8888D,		
		ST8888 CA,		
		ST8888DPK,	RBD-W811W	
		ST8888DBL		

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#### B. Internal Device

Б.	Internal Device			
	Device	Manufacturer	Model	FCC ID/DOC
	N/A			

#### C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

## 5.4 EUT Operating Condition Operating condition is according to ANSI C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

#### 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	56.0	46.0	
$5.00 \sim 30.00$	60.0	50.0	

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

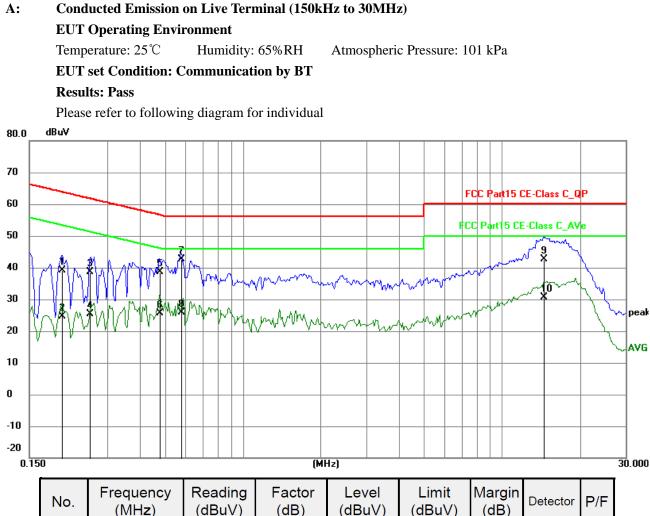
#### 5.6 Test Results:

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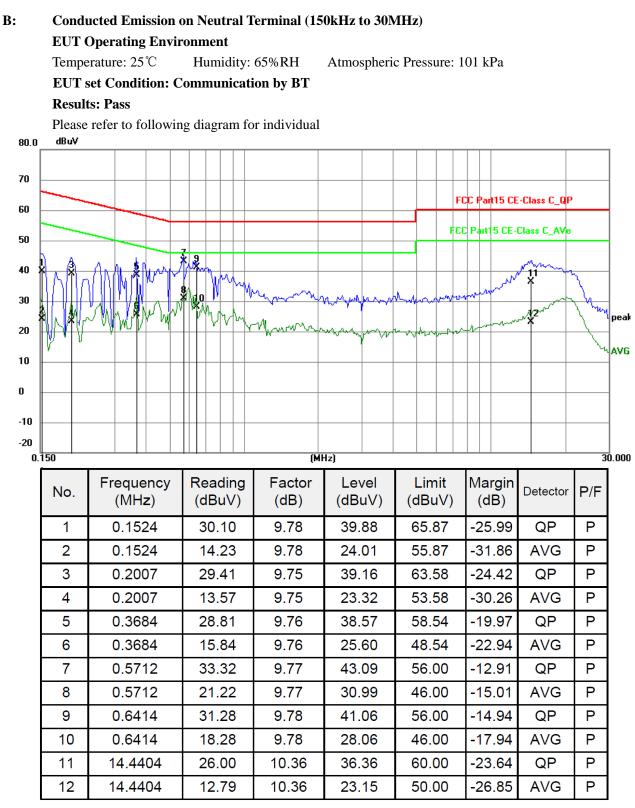


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2007	29.43	9.75	39.18	63.58	-24.40	QP	Р
2	0.2007	14.79	9.75	24.54	53.58	-29.04	AVG	Р
3	0.2575	28.97	9.75	38.72	61.51	-22.79	QP	Р
4	0.2575	15.62	9.75	25.37	51.51	-26.14	AVG	Р
5	0.4776	28.80	9.77	38.57	56.38	-17.81	QP	Р
6	0.4776	15.77	9.77	25.54	46.38	-20.84	AVG	Р
7	0.5792	32.86	9.77	42.63	56.00	-13.37	QP	Р
8	0.5792	16.07	9.77	25.84	46.00	-20.16	AVG	Ρ
9	14.5128	32.24	10.36	42.60	60.00	-17.40	QP	Ρ
10	14.5128	20.38	10.36	30.74	50.00	-19.26	AVG	Ρ

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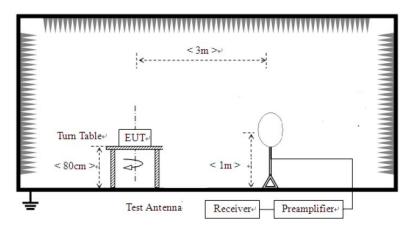


#### 6 Radiated Emission Test

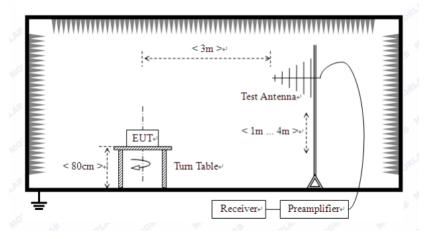
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz

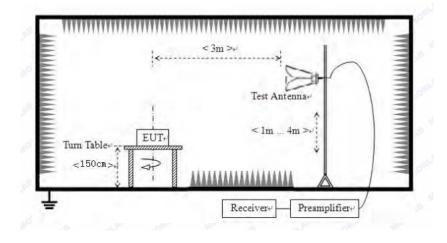


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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

#### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field St	trength of Harmo	onics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note: 1. RF Field Strength  $(dBuV) = 20 \log RF$  Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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#### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

1	I	8
Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

6. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.

7. Battery fully charged was used during tests.

8. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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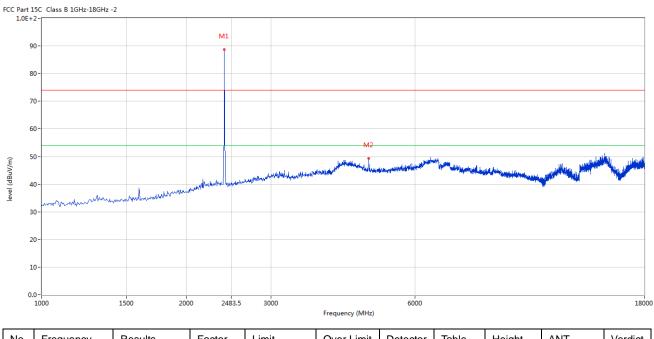


### 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal



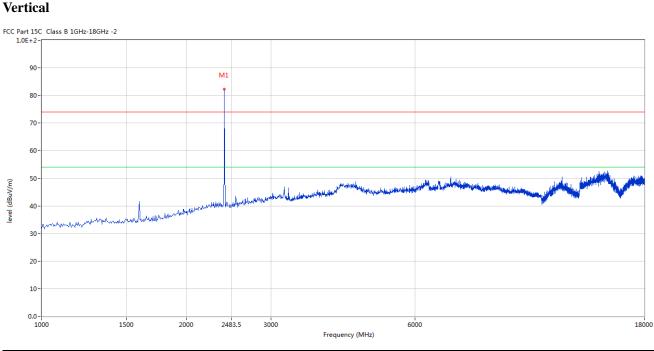
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	88.75	-3.57	114.0	-25.25	Peak	205.00	100	Horizontal	Pass
2	4802.799	49.30	3.12	74.0	-24.70	Peak	159.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	82.82	-3.57	114.0	-31.18	Peak	184.00	100	Vertical	Pass

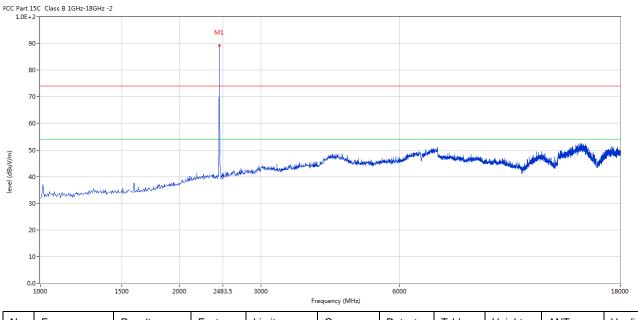
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## Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal



١	No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	1	2441	89.19	-3.57	114.0	-24.81	Peak	211.00	100	Horizontal	Pass

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2441

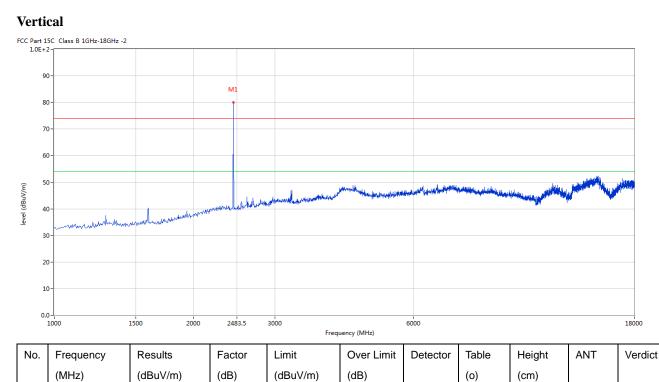
1

79.99

-3.57

114.0





-34.01

197.00

100

Vertical

Pass

Peak

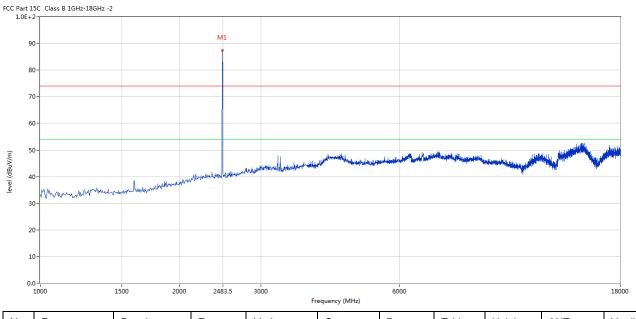
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## Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

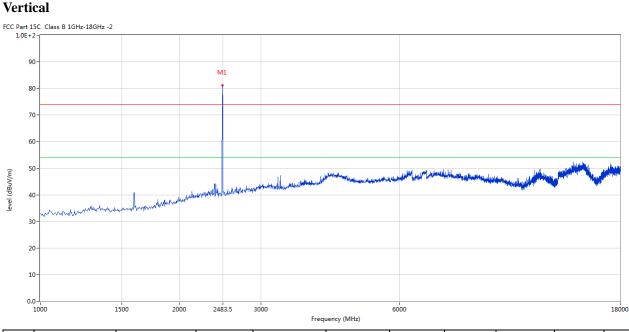


N	lo.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1		2480	87.95	-3.57	114.0	-26.05	Peak	211.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	81.60	-3.57	114.0	-32.40	Peak	185.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

 $(3) Margin {=} Emission {-} Limits$ 

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) For test purpose, keep EUT continuous transmitting

(5)For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.

(6) the measured PK value less than the AV limit.

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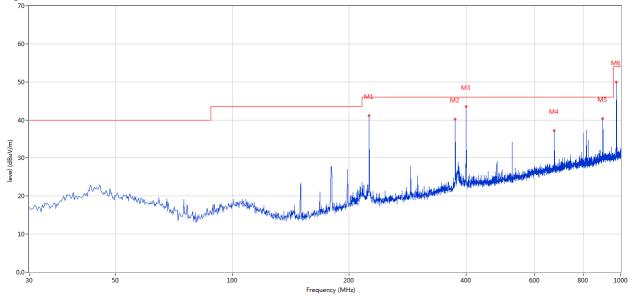
## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	225.164	41.16	-12.91	46.0	-4.84	Peak	290.00	200	Horizontal	Pass
2	374.991	40.26	-9.44	46.0	-5.74	Peak	80.00	100	Horizontal	Pass
3	399.963	43.47	-8.57	46.0	-2.53	Peak	73.00	100	Horizontal	Pass
4	674.889	37.20	-4.37	46.0	-8.80	Peak	360.00	200	Horizontal	Pass
5	899.873	40.32	-1.85	46.0	-5.68	Peak	360.00	200	Horizontal	Pass
6	974.786	50.03	-1.49	54.0	-3.97	Peak	11.00	100	Horizontal	Pass

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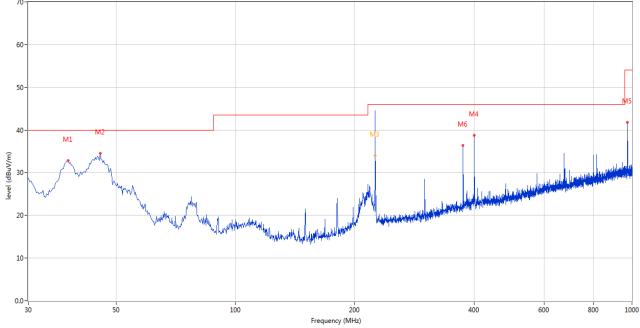
### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	37.758	32.85	-12.84	40.0	-7.15	Peak	0.00	200	Vertical	Pass
2	45.516	34.56	-11.39	40.0	-5.44	Peak	30.00	100	Vertical	Pass
3	224.996	44.61	-12.91	46.0	-1.39	Peak	100.00	100	Vertical	Pass
3*	224.996	34.01	-12.91	46.0	-11.99	QP	100.00	100	Vertical	Pass
4	399.963	38.71	-8.57	46.0	-7.29	Peak	300.00	100	Vertical	Pass
5	975.029	41.83	-1.49	54.0	-12.17	Peak	0.00	200	Vertical	Pass
6	374.991	36.44	-9.44	46.0	-9.56	Peak	0.00	200	Vertical	Pass

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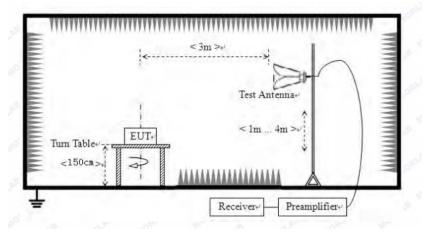


### 7. Band Edge

### 7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

## 7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

## 7.3 Configuration of The EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

## 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least

50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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#### 7.6 Test Result

	Product:		Tablet	PC		Polari	ity		Horizonta	al
	Mode	K	eeping Tra	nsmitting		Test Vol	ltage		DC3.7V	7
Te	mperature		24 deg	. C,		Humic	lity		56% RH	I
Te	est Result:		Pas	S						
Part 1 1.0E+	15C Class B 1GHz-18GHz 2-	-2								
									M1	
	0-									
7	0-							/		
	0-								$\langle \rangle$	
c								M2		
5	0-						. Is			
							i Jaka wata i	الله ال	M. I. Lu	a ka tak
	0-	naphanistic distance of the second	in the standard and the st	الإيلاء أواديا والماراة والماوالي والموادي	Water of the state of the state of the		AND THE REAL PROPERTY OF	up the state of th	Ne ha	un har ya da
4	0	andrastical between the contract of the second states of the	i in the standard of the standard in the	nishteristikiteteksenintesteksioof	and the second	www.Harthandelland	and the second	with an a filler	Nerte Alexandre	and an a start of the
4	0-	vahintehtetynynynyn i meetyntenninetti.	i i i i i i i i i i i i i i i i i i i	yidi birkini dana kata	et bereinen er bereinen er bereinen bereinen bereinen bereinen bereinen bereinen bereinen bereinen bereinen ber	un der ander der		upihonetikt/	N. Urter	anton yaka
4 3 2	0-	างแก่กระบังค์สารๆ ค.ศ	<u>Bilitor</u> andes, <u>Bilitoria e de</u>	รุงสารางสารางสารางสารางสารางสาราง	Mananyana alikatanga			ujuhan ett.	Net the second sec	
4 3 2	0-		ğışlırandadır. Biliyestanda ğı	ng dia pagaharan ni muna pagaharan di	Handred and an	un fan de fan En de fan de f				
4 3 2 1	0-	negicinterditerrye, skaret system basking	ili ja konstanton antispasson a siste	496462.009664300.000 996462.009664300.000		une Merita (ne de				2410
4 3 2 1	0				Frequency (MHz)					2410
4 3 2 1	0	Results	Factor	Limit	Frequency (MHz)	Detector	Table	Height	ANT	2410
4 3 2 1	0				Frequency (MHz)				• • • • •	2410
4 3 1 0.	0	Results	Factor	Limit	Frequency (MHz)		Table	Height	• • • • •	
4 3 2 1 0	0	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2410 Verdict
4 3 2 1	0	Results (dBuV/m) 88.20	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 14.20	Detector Peak	Table (o) 147.00	Height (cm) 100	ANT	2410 Verdict

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_	Product:		Tablet	E PC		Detecto	or		Vertical	
	Mode	H	Keeping Tra	ansmitting		Test Volt	age	Ι	DC3.7V	
Te	emperature		24 deg	g. C,		Humidi	ty	5	56% RH	
Τe	est Result:		Pas	s						
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2			· · ·					
9	90 -							M1		
8	80 -							N	\	
7	70-									
_								/	N	
6	50 -								<u>I</u> N	
5	50 - 40 - who illus all and an thirt who	line of a state distance	theten have been at the of a second	And Later Washington States	hada a sa a sa s			M2 •		huchi
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3	10- <mark>14/14/19/11/14/14/14/14/14/14/14/14/14/14/14/14/</mark>	hlevenkasan data di kabulan di kabu	ijden hen dele dele sense	Astrophistopic	halan a lika kana kana ana			M2 •	V Jusha	huchs
3	10- <mark>dela Universidade a decembra e de</mark> 30-	hlak melan dada di del bladenna	ijeto, ka posadbilod e sa se	Mali bladine in hindige	uluu lana shika daga da aha			M2 •	V	uluu hu
3 2 1	40	blevkandester attele allebol blevklanderer	ijde, ha ser eldede en k	,dalı ələ ələr da aları da alar	lefenderna UMAN der Werdernerna	d life der finder in state of the second		M2 •	V Junika	dilled i
3 2 1	40 - Wind Wester 30 - 20 - 10 -	hlerk meksisaan herikaan hiji kale kasel kasel	ijetor ka san al beladaran da		equency (MHz)			M2 •	1 Junito	2410
4 3 2 1	40	Results	Factor			Detector	Table	Height	ANT	1
4 3 2 1	40 - W. White M. Whit			Fr	equency (MHz)		Table (0)	Height (cm)	ANT	1
4 3 2 1 0. <b>No.</b>	10	Results	Factor	Fr	equency (MHz) Over Limit			-	ANT	1
4 3 2 1 0. No.	40 - 41 - 11 - 11 - 11 - 11 - 11 - 11 -	Results (dBuV/m)	Factor (dB)	Fr Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	(0)	(cm)		Verdi N/A
2 0.	40 - 41 - 11 - 11 - 11 - 11 - 11 - 11 -	Results (dBuV/m) 82.72	Factor (dB) -3.57	Fr Limit (dBuV/m) 74.0	equency (MHz) Over Limit (dB) 8.72	Detector Peak	(o) 182.00	(cm) 100	Vertical	Verdi

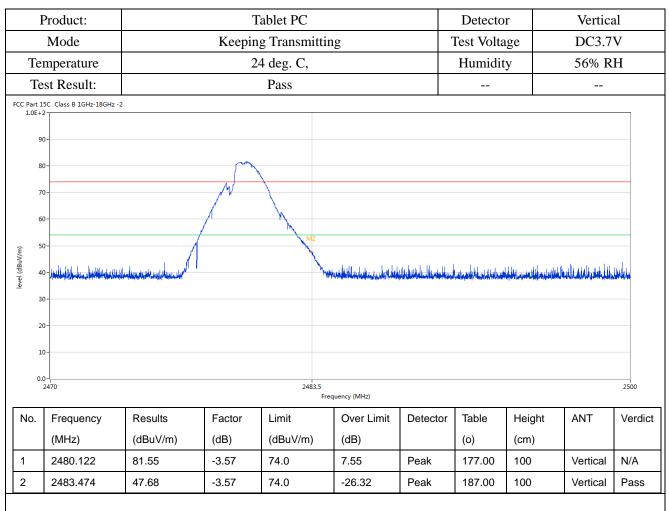
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	Product:		Т	ablet PC			Polarit	у	Horizontal			
	Mode		Keepin	g Transmittin	ıg	,	Test Volta	age	DC3.7V 56% RH			
Te	emperature		2	4 deg. C,			Humidi	ty				
Te	est Result:			Pass								
CC Part : 1.0E+	15C Class B 1GHz-18GH: +2-r	z -2										
g	90-		5	m								
8	80-											
7	70-		Ń									
6	60-											
Ê	50-		/	h								
vel (dBuV/m)		the and the second second	/	M2	Mary Mary Mary Mary Mary Mary Mary Mary	and the statement	White and the second second		hadron bis down an in daled a wellow	and the second		
level (dbuV/m	50- 40- 30-	h John Andrewski and a start of the start of	/	M2 •	March Constitution of the Constitution of the	and the second	Marine i American	en de andere a de ser de s	กังสั่ง แต่ว่า ส่วน สุรรรษที่ 1 มีเสียง - 184 เห	estatel block		
level (dBuV/m	40-	the galantine private and a second	/	M2 •	Martines Hill production	and an a state of the second	and an inclusion of the	4.414.0 <sup>1</sup> 0.05	habradistadas asistatada asista	and the second		
level (dBuV/m	40 - 30 - 20 -	te blevelste stad stad av	/	M2 •	March Mitty Production	phinestallow printerio	Matta Anna An	nedera)(so, edinative, e	hafrasiakan siyakada, aska	einigi filissae		
level (dBuV/m	40- <b>00000000000000000000000000000000000</b>		/	M2 •	and the solid state of the solid	and the second	ahlasinasina	er den se de ser est	h dron bi done en inden after			
level (dBuV/m	40 - 30 - 20 -	te jigender wirdelig von		M2 • 2483	.5	anterpathylese a finterpart	allasing the second visio	nadrastas, aktor a	hafrastalan status	2500		
evel (dBuV/m 5 5 0	40 - 30 - 20 - 10 - 2470			2483	.5 Frequency (MHz)				h dru bi dan en di da den	1		
level (dBuV/m	40- 30- 20- 10- 2470 Frequency	Results	Factor	2483 Limit	.5 Frequency (MHz) Over Limit	Detector	Table	Height	ANT	1		
evel (dBuV/m 5 5 0	40- 30- 20- 10- 2470 Frequency (MHz)	(dBuV/m)	(dB)	2483 Limit (dBuV/m)	.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdi		
evel (dBuV/m 5 5 0	40- 30- 20- 10- 2470 Frequency			2483 Limit	.5 Frequency (MHz) Over Limit		Table	Height	ANT Horizontal	1		
(dpn//m 2 1 0 No.	40- 30- 20- 10- 2470 Frequency (MHz)	(dBuV/m)	(dB)	2483 Limit (dBuV/m)	.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdi		

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Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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#### 8.0 Antenna Requirement

#### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has an FPC antenna. The antenna gain is 1.42dBi Max. It fulfills the requirement of this section. Test Result: Pass

The report refers only to the sample tested and does not apply to the bulk.

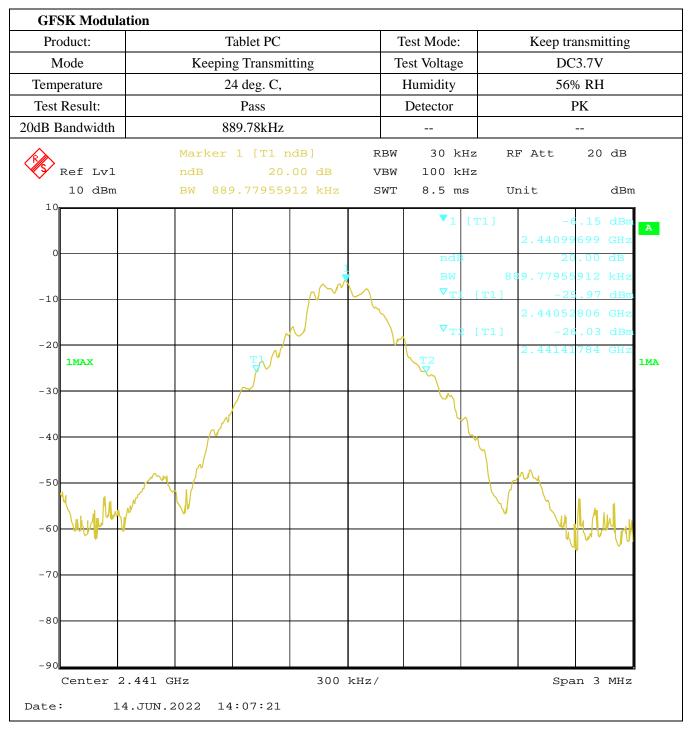
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FSK Modulation										
Product:		Tablet P	С		Test Mod	de:	Keep ti	ansmitting		
Mode	Ke	eping Trans	mitting		Test Volta	age	DC3.7V			
Temperature	24 deg. C,				Humidi	ty	56% RH			
Test Result:		Pass			Detecto	or		РК		
0dB Bandwidth		895.79kH	łz							
Ref Lvl	ndB		.00 dB	RBW VBW	30 k 100 k	Hz	EF Att	20 dB		
10 dBm 10	BW 8	95.791583	317 KHZ	SWT	8.5 m	s l	Init	dBm	1	
0					▼1	[T1]	-	5.91 dBm 0902 GHz	A	
			~~~	5	ndE BW ♥ <sub>T</sub> j	3 8 . [T1]	2 95.7915 -2			
-10		(	$\mathcal{N}$		$\nabla_{\mathrm{T}_{2}}$	? [T1]		2806 GHz 5.86 dBm		
-20 1MAX		T			T2 V		2.4024	2385 GHz	1M	
-30	~				2	٦.				
-40	m /					Ŋ	~			
-50						$\bigvee$				
-60								www		
-70										
-80										
-90 Center 2.4	102 GHz		300	kHz/			Spa	an 3 MHz	ļ	

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Product:		Tablet PC					Test Mode:		Keep transmitting			
Mode	Keepin	ing Transmitting			Test Voltage			DC3.7V				
Temperature	24 deg. C,					Humidity			56% RH			
Test Result:			Pass			Detector			РК			
OdB Bandwidth		88	39.78kHz									
Ŕ		Marker	1 [T1 n	ndB]	R	BW	30 kH	Iz RI	F Att	20	dB	
Ref Lvl 10 dBm		ndB BW 889	20. .779559	00 dB 12 kHz		BW WT	100 kH 8.5 ms		nit		dBm	
10							▼1	[T1]	-6 2.47999		dBm GHz	
0				1			ndB BW	88	20 9.77955		dB <hz< td=""></hz<>	
-10				$\sim$	$\square$		$ abla_{T1}$	[T1]	-26	.23	dBm	
			ſ	$\int$	<u>ر</u>		▼ <sub>T2</sub>	[T1]	2.47952 -26			
-20			T1				T2 V		2.48041	.784 (	GHz 1M	
-30		4					M	\				
-40		~~~~						Y 1				
-50		J						5				
-60										m	M	
-70												
-80												
-90 Center 2	.48 GHz	3		300	kHz/				Spa	an 3 1	MHz	

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π/4DQPSK Mo	dulation								
Product:		Tablet PC					Keep t	ransmitting	
Mode	Keep	oing Transn	nitting		Test Volt	age	D	C3.7V	
Temperature		24 deg. C,				ty	56% RH		
Test Result:		Pass			Detecto	or	РК		
20dB Bandwidth		1.281MHz	Z						
<b>k</b>	Marker	1 [T1 no	dB]	RBW	30 k	Hz	RF Att	20 dB	
Ref Lvl	ndB	20.0	00 dB	VBW	100 k	Hz			
10 dBm	BW 1	.2805611	12 MHz	SWT	8.5 m	IS	Unit	dBm	ı
10					<b>v</b> 1	[T1]	_	6.12 dBm	A
							2.4019	9098 GHz	
0			1		ndI	8	2		
			~ ~		BW VT	[T1]	1.2805		
-10			$-\Lambda \tau^{\prime}$	$\mathcal{M}$	$\overline{\Lambda_{n}}$	[ [ T.T ]		<u>6.09 dBm</u> 4168 GHz	
		$/ \sim \psi$	~~ v			2 [T1]		6.47 dBm	
-20		<b>V</b>					2.4026	2224 GHz	
1MAX						2			1MA
- 30									
-40							4.5		
-50						Ĺ.		Λ.	
-60									
-70									
-80									
-90 Center 2.4	02 GHz		300	kHz/			Sp	an 3 MHz	l
Date: 14.J	JUN.2022 14	:30:13							

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π/4DQPSK M		-	ablet PC					IZ (	••		
Product:						Test Mode:		Keep transmitting			
Mode	Keeping Transmitting				Test Voltage	;	DC3.7V				
Temperature		24 deg. C,				Humidity		56% RH			
Test Result:			Pass			Detector		РК			
20dB Bandwidth		1.	281MHz								
<u>Received</u>	Ma	arker	1 [T1 n	dB]	RB	W 30 k	Hz RI	F Att	20 dB		
Ref Lvl	nd			00 dB	VB						
10 dBm	BV	v 1	.280561	12 MHz	SW'	T 8.5 m	s Ui	nit	dBm	1	
10						<b>V</b> 1	[T1]	-6	.33 dBm	A	
								2.44099	098 GHz		
0				1		ndI	3	20	.00 dB		
				. 7		BW ▼ <sub>T</sub> 1		1.28056	112 MHz		
-10			Δ	$\Lambda$	$\int $		[T1]	2.44034	<u>.15 dBm</u> 168 GHz		
				∽ ∨			2 [T1]	-26			
-20		/	<u></u>					2.44162	224 GHz		
1MAX							C2			1MA	
- 30											
-40							_				
-50	M	$\checkmark$					4	M			
	NU						Ŵ	hul	Warra W		
- 6 0											
-70											
-80											
-90											
Center 2	.441 GHz			300	kHz/			Spa	n 3 MHz		

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Product:		Tablet PC				Test Mode:	Keep transmitting				
Mode							DC3.7V				
Temperature	Keeping Transmitting           24 deg. C,					Test Voltage Humidity					
Test Result:		24	Pass					56% RH PK			
20dB Bandwidth		1	281MHz			Detector					
20dB Bandwidth											
			1 [T1 n		RBW			Att	20 dB		
Ref Lvl 10 dBm		ndB 3W 1	20. .280561	00 dB .12 MHz	VBW SWT			nit	dBm	ı	
10						<b>1</b>	T1]		.54 dBm	1	
0							11)	2.47999	699 GHz	A	
				1		ndB BW ⊽ <sub>T1</sub>	[T1]	1.28056	.00 dB 112 MHz .38 dBm		
-10			$\sim$	$\mathcal{M}_{\mathcal{A}}$	M	M T2	[T1]	 2.47934 _26	. <u>38 dBm</u> 168 GHz .95 dBm		
-20		Ţ	<u></u>				2	2.48062	224 GHz	1MA	
-30											
-40											
-50	aar	$\sim$					h				
-50								<u> </u>	14		
-60	V							L	1 have a second		
-70											
-80											
-90											
Center 2	.48 GHz			300	kHz/			Spa	n 3 MHz	-	

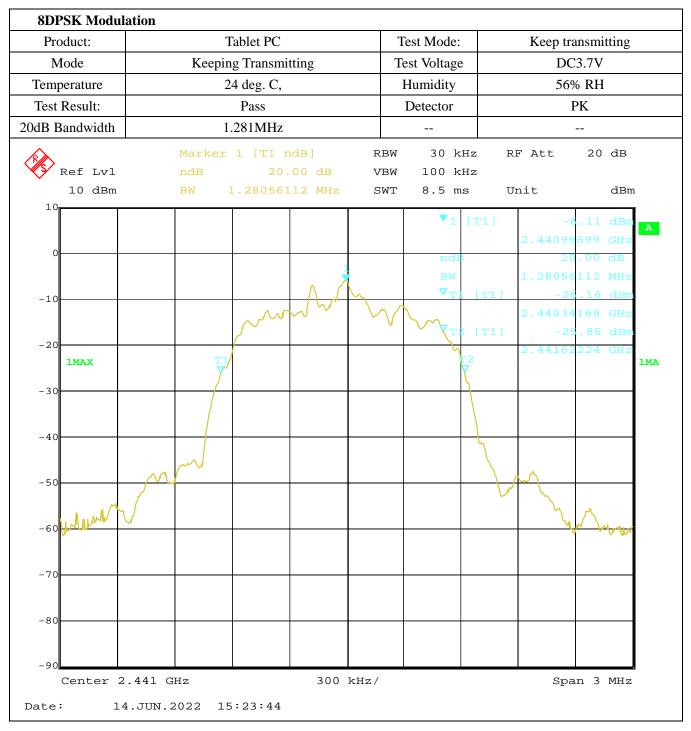
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8DPSK Modula	tion								
Product:		Tablet PC	2		Test Mo	de:	Keep t	ransmitting	
Mode	Keep	oing Trans	mitting		Test Volt	age	DC3.7V		
Temperature		24 deg. C,				ty	56% RH		
Test Result:		Pass			Detecto	or	РК		
20dB Bandwidth		1.281MH	Z						
<b>A</b>	Marker	1 [T1 n	dB]	RBW	30 k	Hz F	RF Att	20 dB	
Ref Lvl	ndB	20.	00 dB	VBW	100 k	Hz			
10 dBm	BW 1	.280561	12 MHz	SWT	8.5 m	s (	Jnit	dBm	ı
10					<b>v</b> 1	[T1]	-	6.15 dBm	A
							2.4019	9699 GHz	
0			3		ndI	8	2	0.00 dB	
					BW ▼ <sub>T</sub> ]	[T1]	1.2805		
-10		AC	$\sqrt{1}$		· · ·	- [ + + ]	4	<u>6.20 dBm</u> 4168 GHz	
		$\sim$		Ŭ,	$\mathcal{M}_{\mathrm{T}}$	2 [T1]		6.06 dBm	
-20					Ŋ	<b>E</b> 2	2.4026	2224 GHz	
-30	<b>y</b>								1MA
-40	ma					Ì			
-50						$\checkmark$	1 million	~	
-60								1 mil	
-70									
- 80									
-90 Center 2.4	02 GHz		300	kHz/			Sp	an 3 MHz	l
Date: 14.3	JUN.2022 14	:32:23							

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Product:			Tablet PC     ng Transmitting			Test Mode:		Keep transmitting			
Mode	Test Voltage					DC3.7V					
Temperature		24 deg. C,				Humidity		56% RH PK			
Test Result:	Pass 1.281MHz					Detector					
DdB Bandwidth											
Ref Lvl		Marker ndB	1 [T1 r 20.	IdB] 00 dB	RBI VBI			F Att	20 dB		
10 dBm		BW 1	.280561	12 MHz	SW	r 8.5 ms	Uı	nit	dBr	n	
10						▼1	[T1]	-6 2.47999	.62 dBn 699 GHz	A	
0						ndB BW V <sub>T1</sub>	[T1]	20 1.28056 -26	.00 dB 112 MHz .84 dBn		
-10			~~~~		7		[T1]	2.47934	.24 dBn		
-20		TJ				C C	2	2.48062	224 GHz	1MA	
-30											
-40							Ĺ				
-50		<u> </u>					- VM	ma hay		-	
-60	hhn.							- ×ų	N AL	ŀ	
-70										-	
-80											
-90 Center 2	.48 GHz	Z		300	kHz/			Spa	n 3 MHz	J	

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# 10.0 FCC ID Label

### FCC ID: RBD-W811W

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

## Mark Location:



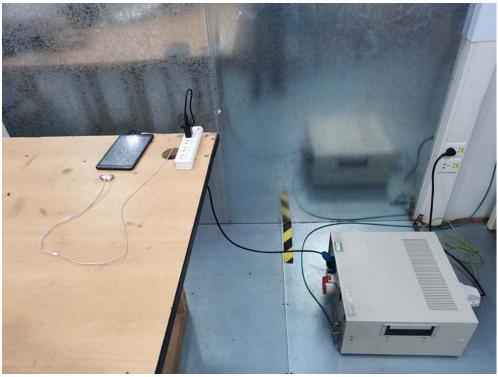
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#### 11.0 Photo of testing

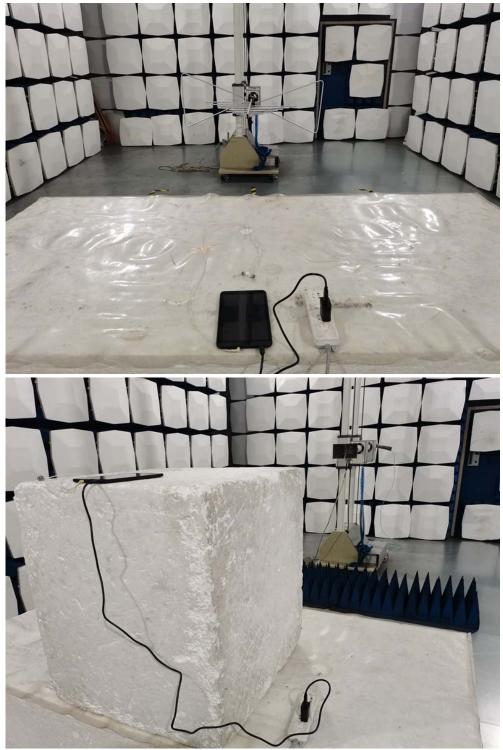
11.1 Conducted test View--



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Radiated emission test view



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#### 11.2 Photographs – EUT

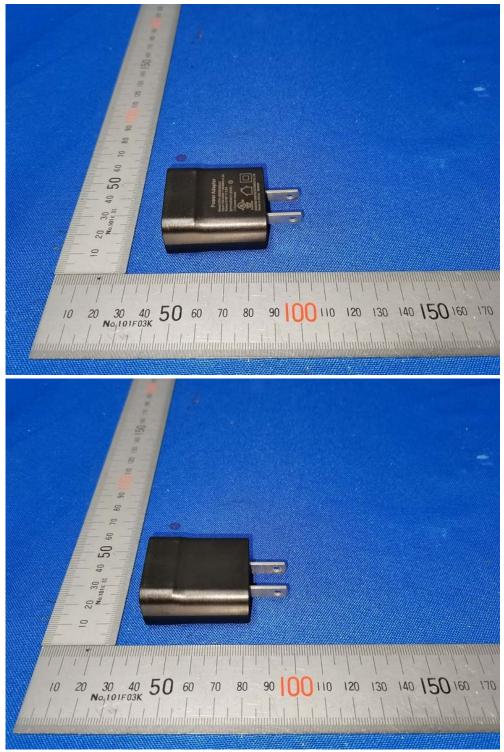


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Outside View



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Outside View

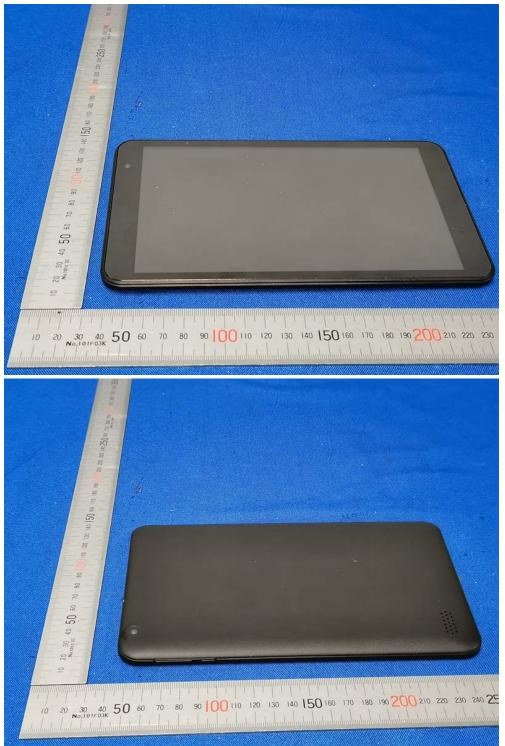


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Outside View



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Inside view

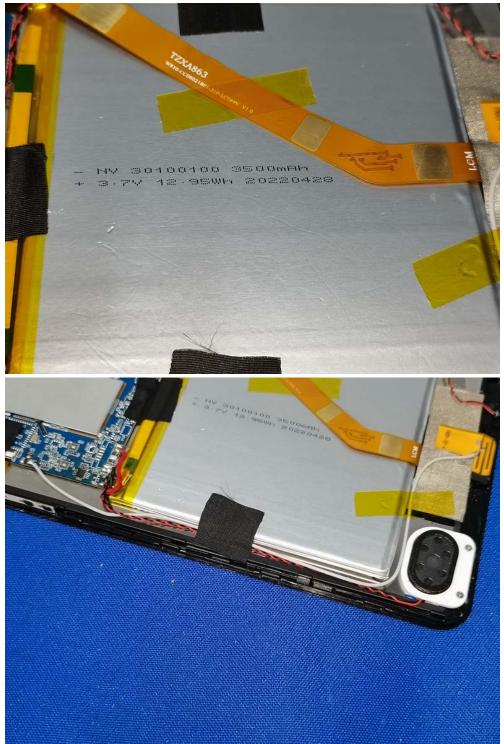


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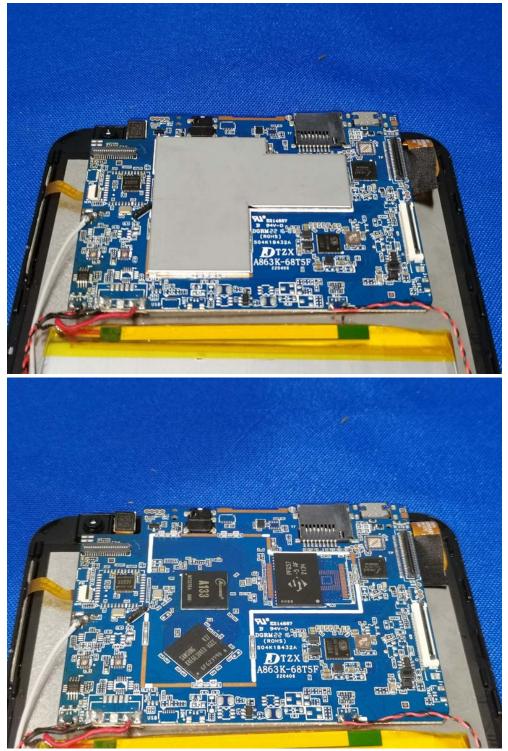
Inside view



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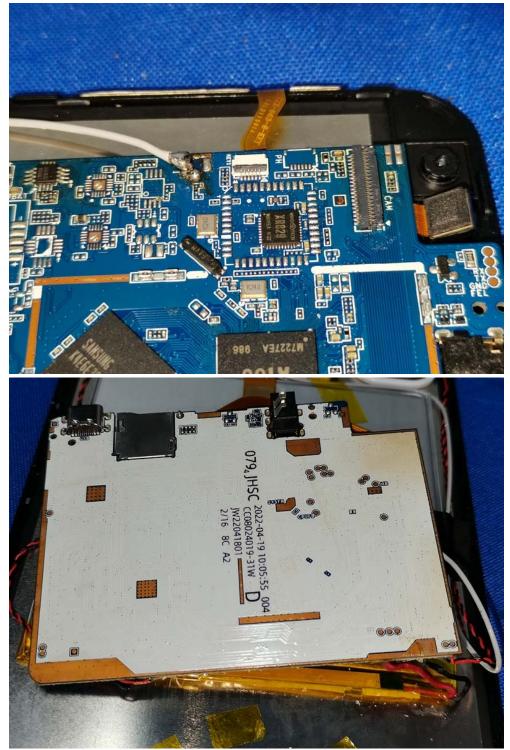
Inside view



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Inside view



--End of the report--

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