



File reference No.: 2021-09-29

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Product: Tablet PC

Model No.: W113P, M10905, M10905-32, ST10905

Trademark: PACKARD BELL, Smartab

Test Standards: FCC Part 15.249

It is herewith confirmed and found to comply with the Test result:

requirements set up by ANSI C63.10 &FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation

electromagnetic compatibility

Approved By

Jack Chung

Manager

Dated: September 29, 2021

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

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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 17025:2005 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

Date: 2021-09-29



Test Report Conclusion

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

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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

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (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: 0755-84688843 Fax: 0755-84688843

1.3 Description of EUT

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: PACKARD BELL, Smartab

Model Number: W113P

Additional Model Name M10905, M10905-32, ST10905

Hardware Version: A863T-68T5B

Software Version: M10905-32 20210901

Serial No.: M109052108000001~M109052108004000

Input Voltage: DC5.0V, 2.0A

Battery DC3.7V, 5000mAh, 18.5Wh

Power Supply: Model: TPA-46050200UU; Input: 100-240V~, 50/60Hz, 0.3A; Output: DC5V, 2A

Modulation Type: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth BDR/EDR

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz
Channel Number: 79

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Antenna Designation FPC antenna used. The gain of the antennas is -0.77dBi (get from the antenna

specification provided the applicant)

1.4 Submitted Sample: 2 pcs

1.5 Test Duration

2021-09-11 to 2021-09-28

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

Terry Tang

The sample tested by

Print Name: Terry Tang

Date: 2021-09-29



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
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	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
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	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	1	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

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

3. WIFI Test Software: RFtester_V2.4

Power Setting: default

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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 15.207	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

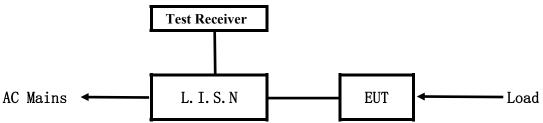
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

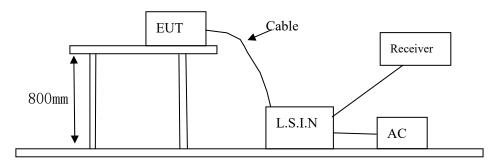


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: DC3.7V, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. 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 DC	Shenzhen Jingwah Information	W113P, M10905,	RBD-W113P	
Tablet PC	Technology Co., Ltd.	M10905-32, ST10905	KDD-W113F	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	TIANYIN	TPA-46050200UU	Input: 100-240V~, 50/60Hz, 0.3A;
		Output: DC5V, 2A	

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- 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 ~ 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:

Pass

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

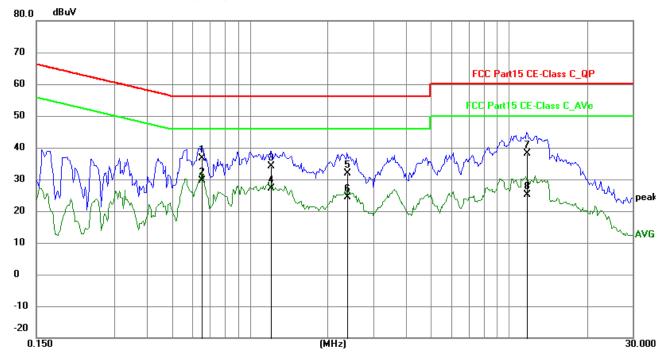
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Model: W113P Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.6531	26.87	9.78	36.65	56.00	-19.35	QP	Р
2	0.6531	19.79	9.78	29.57	46.00	-16.43	AVG	Р
3	1.2069	24.46	9.79	34.25	56.00	-21.75	QP	П
4	1.2069	17.26	9.79	27.05	46.00	-18.95	AVG	Р
5	2.3730	22.03	9.82	31.85	56.00	-24.15	QP	Р
6	2.3730	14.46	9.82	24.28	46.00	-21.72	AVG	Р
7	11.7282	27.90	10.24	38.14	60.00	-21.86	QP	Р
8	11.7282	14.96	10.24	25.20	50.00	-24.80	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

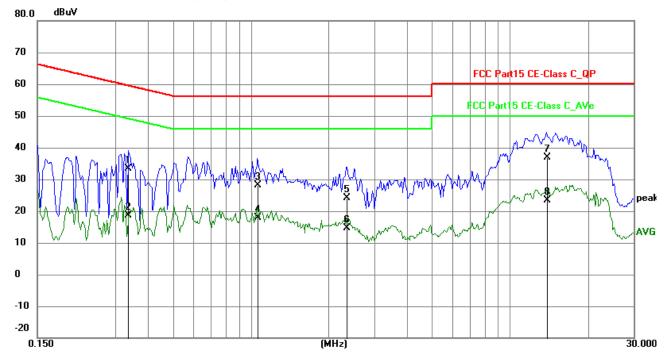
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Model: W113P Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3372	23.70	9.76	33.46	59.27	-25.81	QP	Р
2	0.3372	8.87	9.76	18.63	49.27	-30.64	AVG	Р
3	1.0626	18.29	9.79	28.08	56.00	-27.92	QP	Р
4	1.0626	8.14	9.79	17.93	46.00	-28.07	AVG	Р
5	2.3456	14.32	9.81	24.13	56.00	-31.87	QP	Р
6	2.3456	4.87	9.81	14.68	46.00	-31.32	AVG	Р
7	13.8654	26.58	10.33	36.91	60.00	-23.09	QP	Р
8	13.8654	12.95	10.33	23.28	50.00	-26.72	AVG	Р

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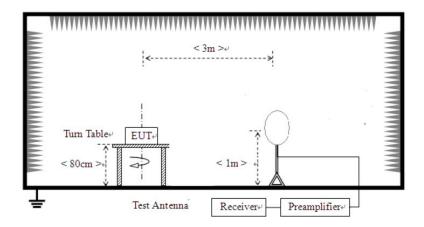


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) 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

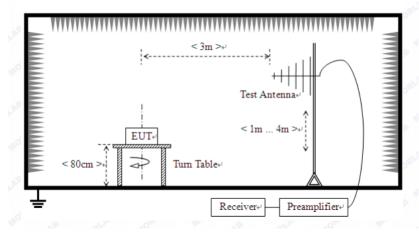
For radiated emissions from 9kHz to 30MHz



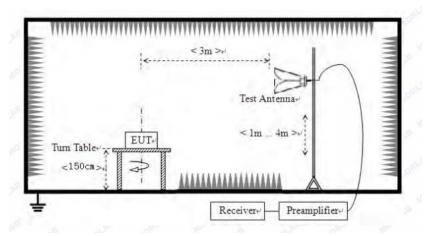
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For radiated emissions from 30MHz to1GHz



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.

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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	ental (3m)	Field S	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBuV/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.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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.
- 7. 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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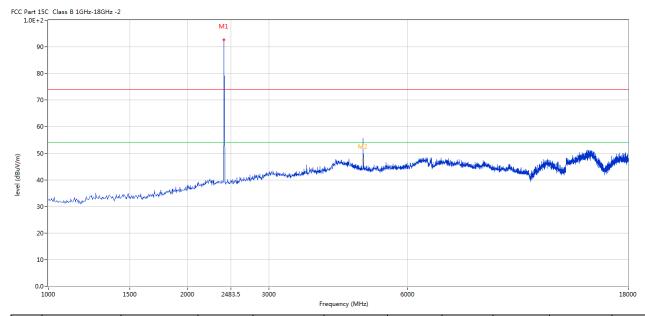


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



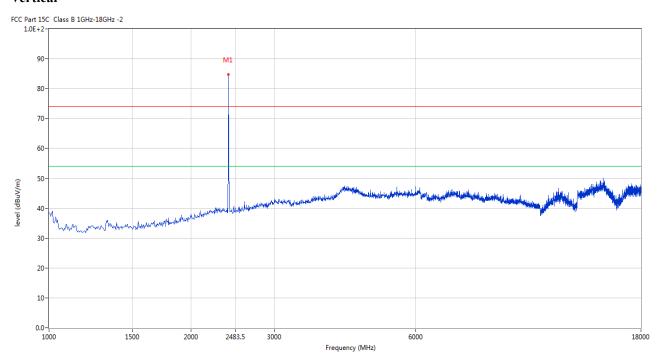
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.149	92.68	-3.57	114.0	-21.32	Peak	133.00	100	Horizontal	Pass
2	4802.799	55.59	3.12	74.0	-18.41	Peak	129.00	100	Horizontal	Pass
2**	4802.799	47.47	3.12	54.0	-6.53	AV	129.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	84.73	-3.57	114.0	-29.27	Peak	234.00	100	Vertical	Pass

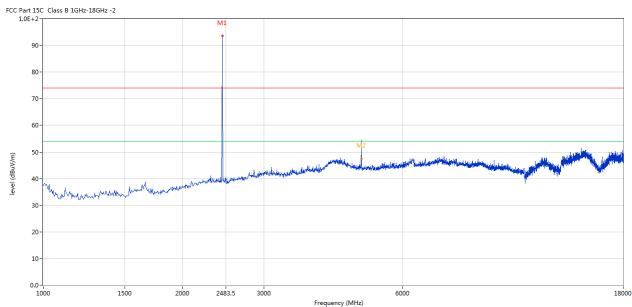
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



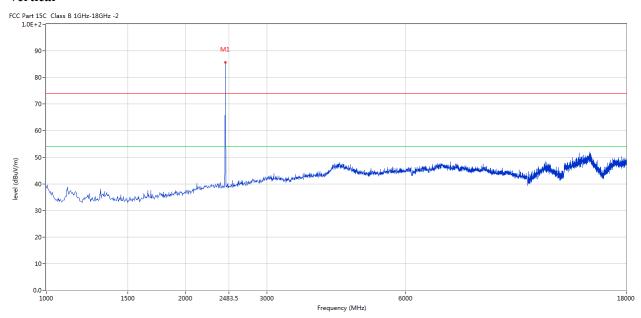
					1 7 7					
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	93.51	-3.57	114.0	-20.49	Peak	98.00	100	Horizontal	Pass
2	4883.529	54.49	3.20	74.0	-19.51	Peak	102.00	100	Horizontal	Pass
2**	4883.529	47.51	3.20	54.0	-6.49	AV	102.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2440.390	85.65	-3.57	114.0	-28.35	Peak	234.00	100	Vertical	Pass

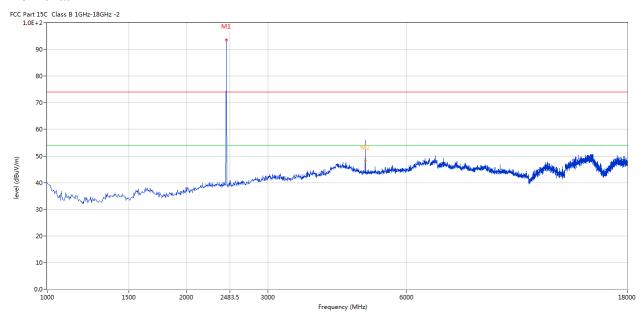
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	93.69	-3.57	114.0	-20.31	Peak	99.00	100	Horizontal	Pass
2	4961.126	55.93	3.20	74.0	-18.07	Peak	99.00	100	Horizontal	Pass
2**	4961.126	48.30	3.20	54.0	-5.70	AV	99.00	100	Horizontal	Pass

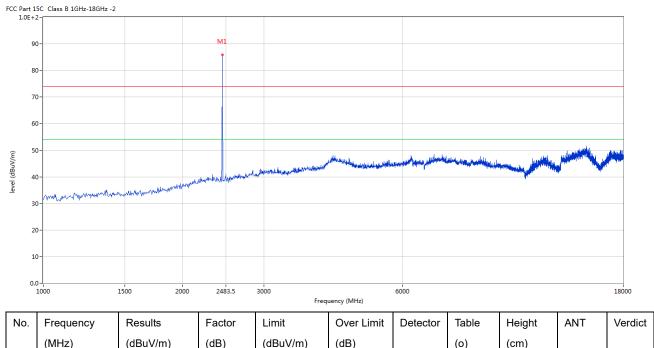
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	85.89	-3.57	114.0	-28.11	Peak	236.00	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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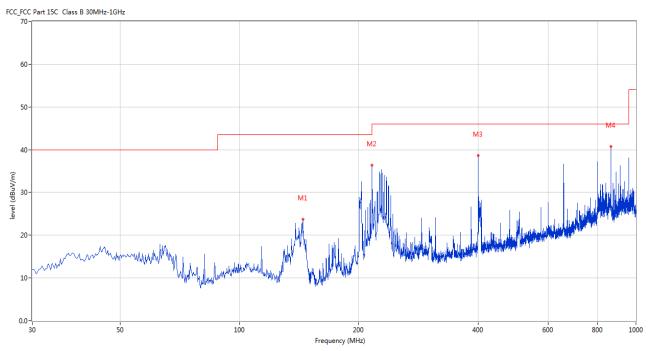


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	144.431	23.70	-17.14	43.5	-19.80	Peak	95.00	100	Horizontal	Pass
2	215.951	36.45	-13.60	43.5	-7.05	Peak	95.00	100	Horizontal	Pass
3	399.963	38.60	-8.57	46.0	-7.40	Peak	119.00	100	Horizontal	Pass
4	863.992	40.78	-2.34	46.0	-5.22	Peak	258.00	100	Horizontal	Pass

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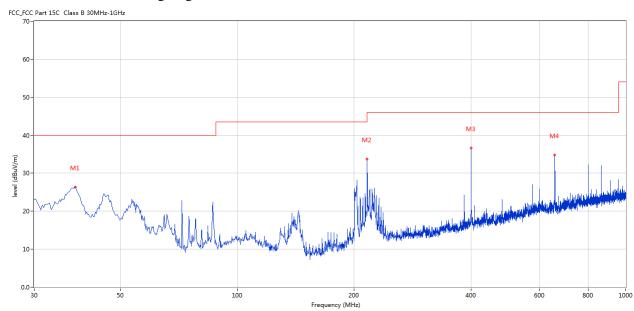


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	38.243	26.33	-12.70	40.0	-13.67	Peak	94.00	100	Vertical	Pass
2	215.951	33.77	-13.60	43.5	-9.73	Peak	11.00	100	Vertical	Pass
3	399.963	36.70	-8.57	46.0	-9.30	Peak	11.00	100	Vertical	Pass
4	656.948	34.81	-4.43	46.0	-11.19	Peak	28.00	100	Vertical	Pass

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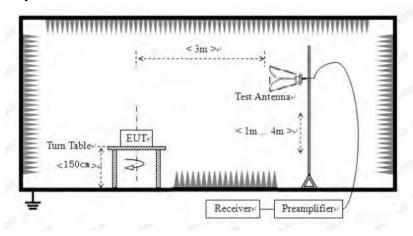


7. Band Edge

7.1 Test Method and test Procedure:

- (1) 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.

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

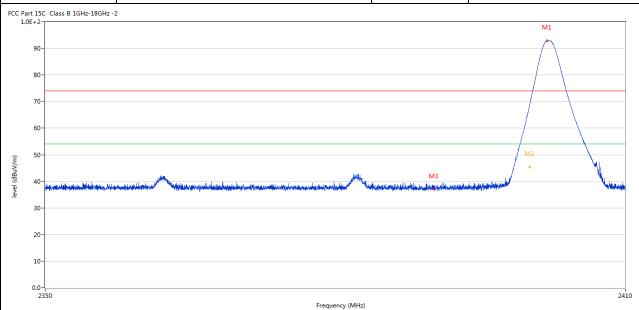
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7.6 Test Result

Product:	Tablet PC	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.827	92.90	-3.57	74.0	18.90	Peak	130.00	100	Horizontal	N/A
2	2400.027	69.05	-3.57	74.0	-4.95	Peak	134.00	100	Horizontal	Pass
2**	2400.027	45.41	-3.57	54.0	-8.59	AV	134.00	100	Horizontal	Pass
3	2390.070	37.13	-3.53	74.0	-36.87	Peak	160.00	100	Horizontal	Pass

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I	Product:		Tablet	PC		Detector		Ve	rtical	
	Mode	K	eeping Tra	insmitting	Т	est Voltage		DC	C3.7V	
Te	mperature		24 deg	g. C,		Humidity		569	% RH	
Te	st Result:		Pas	s						
C Part 1 1.0E+:	5C Class B 1GHz-18GHz 2-	-2			•					
91									/1	
80	0-									
70	0-								$\overline{}$	
60	0-								-	
50	0-									
41	1-					M3		M2 •		
	for the control of the state of	i erakildikiri, iddiyelishiriyi kile darida yayayaya raja	a de responsable de la	i.Arilad-planerapio-representativi indicada pinioteri	erita din pilaterita di pirate di per	aideach aigean aite an aguid an Aileach	d in the state of	perpendique de	¥I.	h, majo politica.
30	0-									
20	0-									
10	0-									
0.0										
	2350			Fr	equency (MHz)					2410
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdi
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.067	85.44	-3.57	74.0	11.44	Peak	235.00	100	Vertical	N/A
2	2400.072	62.31	-3.57	74.0	-11.69	Peak	235.00	100	Vertical	Pass
2**	2400.072	42.36	-3.57	54.0	-11.64	AV	235.00	100	Vertical	Pass
3	2390.040	38.19	-3.53	74.0	-35.81	Peak	182.00	100	Vertical	Pass

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]	Product:		Table	t PC		Polarity		Но	orizontal	
	Mode	K	eeping Tr	ansmitting	1	Test Voltag	ge	D	C3.7V	
Te	mperature		24 de	g. C,		Humidity	,	50	6% RH	
Te	est Result:		Pas	ss						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
0	90-									
,										
8	30-									
7	70-		+							
6	50 -	/	/	M						
5	50-			1112	Who little was					
o 4 (m//mgp) level	10-	and a state of the state of			William Commencer					
	define a secretaria and a firm when a second	Military Control of the Parket.			The state of the	بعضتهم فالمارين ويعمل جديه	-	والمرام والإعطاب والمراد المراد والمراد	-	<u> Cinquip</u> iti
	30-	Market and Street of a decourage.			The state of the s	بيدنية فالتاجيب بمحمل فديم	سوغىمىلىدۇدادۇلىلىدى <u>لىدۇ</u> ند	ghyjaraaligaadayattaaa jaqaaligda ba	وأحود والخدورة مرفاهران الطائد بين أمهيدا	(.c.e
3		And the second s			West-only	nyttä ulettus, maykilli (tipi akui	ng anghyakkhak dinasida dina	glagi et sakka adaşı il pasa başı etti, diri diri	بالبود (الكان وقد مح يقدون و الطلاق من بالموسل	<u>A. A. A. B. Hall</u>
3	20-					مرده والمالية والمردون والمرادون والمردون والمردون والمردون والمردون والمردون والمردون والمردون والمردون والمردون	ungangal sebelah di pangki dak	भिन्द्रात्मा व्यवस्थितसम्बद्धाः । अवस्थाः । अस्य निर्मात्मे के केस	بالنوف وقطره فاختاده بالمهند	Acres and serving serving
3 2 1	20-				Manhous	a, ris John Complete Apis de L	yaya yaki eshiki ka	· · · · · · · · · · · · · · · · · · ·	magalagan milada ga jama ay ang malaga ing milaga ing milaga ing milaga ing milaga ing milaga ing milaga ing m	g.c
3 2 1 0.	20-			2483.5		a, ris John C. sang kilik injustru	nga ngi sakilah disahiri dak	fryst addithur sasses of chiefs des	, hengeleg over tillet de josephe ge deg velk (j. 1912) el	2500
3 2 1 0.	20-	Results	Factor			Detector	Table	Height	ANT	
3 2 1 0.	0		Factor (dB)	1	Frequency (MHz)				ANT	
3 2 1 0.	20- 20- 20- 2470 Frequency	Results		Limit	Frequency (MHz)		Table	Height	ANT Horizontal	
3 2 1 0.	Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdic

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]	Product:		Tablet	PC	Ι	Detector		Ve	rtical	
	Mode	K	eeping Tra	nsmitting	Tes	st Voltage		DC	3.7V	
Te	mperature		24 deg	g. C,	Н	Iumidity		569	% RH	
Te	est Result:		Pas	s						
C Part 1	15C Class B 1GHz-18GHz	-2			•					
9	10-									
8	60-									
7	0-									
6	60-									
			/							
		/	/							
. 5	0-		/							
5	0 - Marillaniano () het, description de la constantina del constantina de la constantina de la constantina del constantina de la constantina de la constantina de la constantina de la constantina del constantina	and the desired the substantial section of the sect			Apple to the second sec	ation by a submitted particular and	İnabiasalarını indifesiabini	والمراجعة	and a digital the second and a state has before the second	Mary mary n
. 4	10 -	akid ki ilaan ah			Maril Left Lance Marine Marine	ation by a natural negative defeated and a second	Jawasa karapatakka kend	ત્રીન્યું અને તારા સ્થાપની મહુન કરિયો હોંગ ી કોન્મ ફેસ્સ મહિ	المعارفية المراجعة والمعارفين المراجعة والمراجعة والمراج	National
3	10 - Antikariya (m. hkfr, s. danak na karasariya n	alia li unioni insida a france	,		A Self-Laponina di series	asiraha cajamba yaka kisto di kaca	İndeler ada hayatırıldığı katırıl	તોન્દ્રાન તે વારા ત્યાં કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર્યુ	المعارضة والمعارضة والمعار	ng physiolys
3	10 - Mailleann (m. hill (m. h. den all meilleann) (addid believe and a speak			Marie a president de la la la la la la la la la la la la la	asirabay ngunhangsah pangabaya	المعادم والمعادم والمعادمة والمعادمة والمعادمة والمعادمة والمعادمة والمعادمة والمعادمة والمعادمة والمعادمة والم	તીન્દ્રાન કોલાં સ્થાપની મહાન કર્યું હતું કરવા કેલા કર્યું હતું કરે કે તેના કેલા કર્યા કર્યા હતું કરે કે તેના ક	عدريان المراجعة المرا	nd and marke r
. 4 3 2		ndright the second seco			A Sall Left & one in street with the left	atividagi adjudu vytika filologia (المعاور والمصورة والمالا المعاورة والمعاورة وا	alaya dada ay ka ga ay ka dada da ay ka a ay ka a ah	Magistonania ing kagkan	ng galand yakiye
. 4 3 2	10 - Mailleann (m. hill (m. h. den all meilleann) (ndelik de universitä nelenan		2483.5 Fr	requency (MHz)	ativishes edge de vertical de la constitución de la constitución de la constitución de la constitución de la c	hades at was a sidelije had sod	alayan dada sangka aja apika dajak kan papa da	Makit kananka ing kapkan	2500
, 4 3 2 1		Results	Factor			Detector	Table	Height	ANT	2500
. 4 3 2 1	0		Factor (dB)	Fr	requency (MHz)					2500
. 4 3 2 1	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-	Results		Limit	requency (MHz) Over Limit		Table	Height		

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

- 2. 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.
- 3. 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



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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 a FPC antenna with gain -0.77dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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FSK Modulation											
Product:		Tablet PC			T	est Mode:		Keep tran	smitti	ing	
Mode	Keep	ing Transm	nitting		Te	est Voltage		DC3	.7V		
Temperature		24 deg. C,]	Humidity		56%	RH		
Test Result:		Pass				Detector		Pl	K		
0dB Bandwidth		979.96kHz	Z						-		
Ref Lvl	ndB		.00 dB		ВW	30 k	Hz	F Att	20	dв	
10 dBm	BW 97	9.959919	984 KHz	SV	VТ	8.5 m	s Ui	nit		dBm	
						\mathbf{v}_1	[T1]	(2.29	dBm	Z
0				1 7	_			2.40216		_	
						nd# BW	0.5	20 9.95991	984	dB	
			\frac{1}{2}	\	/	BW ∇ _{T1}	9, [T1]	19.95991 10		dBm	
-10		~/	ſ [*]		ζ.,	_		2.40151			
		T				V _Z T1	2 [T1]	-20	.15	dBm	
1MAX	/					M	\	2.40249	599	GHz	11
-30	~\						4	~			
-50	V								\wedge		
-60								\	/ La	wy	
-70											
-80											
-90											
Center 2.402	2 GHz		300	kHz/				Spa	an 3	MHz	

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GFSK Modula	tion										
Product:		Т	ablet PC			Т	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Te	st Voltage	;	DC	3.7V	
Temperature		2	4 deg. C,			I	Iumidity		569	% RH	
Test Result:			Pass]	Detector]	PK	
20dB Bandwidth		97	73.95kHz								
Ŕ		Marker	1 [T1 r	ndB]	RE	W	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	VE		100 k				
10 dBm		BW 973	3.947895	79 kHz	SW	ľΤ	8.5 m	s Ui	nit	dBm	
							$lacktriangledown_1$	[T1]	(.21 dBm	A
0					1				2.44116	533 GHz	
							ndE	0.5	20 3.94789	0.00 dB	
				\sim	_	Ĺ	BW ⊽ _T 1	97 L [T1]	-194789 -19	579 kHz	
-10				V		4	_		2.44052	204 GHz	
			T				V _{ZT}	2 [T1]	-19	.99 dBm	
-20			7				Ψ,		2.44149	599 GHz	1MA
			V				\	\			IMA
-30	۸۸							7			
-40		\								Λ	
-50 mm	Á									home	
-60											
-70											
-80											
-90 Center 2	.441 G	Hz		300	kHz/				Spa	an 3 MHz	
Date: 23	3.SEP.2	021 09	:50:17								

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Product:		T	ablet PC			Test Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting	,	Test Voltage	;	DC	3.7V	
Геmperature		24	4 deg. C,			Humidity		56%	% RH	
Test Result:			Pass			Detector		I	PK.	
dB Bandwidth		96	67.94kHz							
• • • • • • • • • • • • • • • • • • •	N	Marker	1 [T1 n	ndB]	RBW	30 k	Hz Rl	₹ Att	20 dB	
Ref Lvl	r	ndB	20.	00 dB	VBW	100 k	Hz			
10 dBm	E	3W 967	7.935871	74 kHz	SWT	8.5 m	s Uı	nit	dBm	ı
10						v ₁	[T1]	– 0	.53 dBm	
					1			2.48016	533 GHz	P
0				~~	VVV	ndF	3	20	.00 dB	
				\sim	, (BW	96	7.93587	174 kHz	
-10			/	J	7	~	[T1]	-20	.55 dBm	
						V V	2 [T1]	2.47952 -21	806 GHz .07 dBm	
-20			77			VF2 ⁻¹	. (11)	2.48049	599 GHz	ĺ
1MAX		/				\sim	\			1M
-30	٨						M			
-40	/						V		\wedge	
-50									MM	
-60										
-70										
-80										
-00										
-90 Center 2.	.48 GHz			300	kHz/			Spa	n 3 MHz	

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Pi/4D-QPSK Mo	odulatio	1									
Product:		Т	ablet PC			T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Te	est Voltage	;	DC	3.7V	
Temperature		2	4 deg. C,]	Humidity		56%	% RH	
Test Result:			Pass				Detector		I	PK.	
20dB Bandwidth		1.	.455MHz								
Ŕ		Marker	1 [T1 n	idB]	R	BW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB		BW	100 k				
10 dBm		BW 1	L.454909	82 MHz	S'	TW	8.5 m	s Ui	nit	dBm	
							v ₁	[T1]	-5	.29 dBm	A
0									2.40216	533 GHz	
					1		ndE BW		20 1.45490	.00 dB	
1.0				~~~\ \	$\setminus \land$		Bw ∇ _T 1	[T1]	-25		
-10			\sim	<u></u>	V"	~	$\sqrt{\gamma}$		2.40125		
		~	√ *				راتا∠ ٍ	[T1]	-25	.82 dBm	
-20 1MAX		T						T2	2.40271	242 GHz	1MA
-30		$\sqrt{}$									
-40	المر								<u></u>	Λ	
-50	~								W	/ h	
-60											
-70											
-80											
-90											
Center 2	.402 G	Hz		300	kHz/				Spa	n 3 MHz	
Date: 23	3.SEP.2	021 11	:07:13								

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Product:		T	ablet PC			T	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage			3.7V	
Temperature			4 deg. C,	-			Humidity		56%	6 RH	
Test Result:			Pass				Detector		I	PK	
0dB Bandwidth		1.	.455MHz								
<i>6</i>		Marker	1 [T1 n	ndB]	R	BW	30 ki	Hz Rl	7 Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 k	Hz			
10 dBm		BW 1	1.454909	82 MHz	S	WT	8.5 m	s Uı	nit	dBm	ı
10							v ₁	[T1]	- 5	.03 dBm	
									2.44116	533 GHz	A
0					_1		ndB		20	.00 dB	
				\sim \sim	\		BW $ abla_{\mathrm{T1}}$	5-2.2	1.45490		
-10			~~~	m V	\\\'	\overline{L}	$\sqrt{\sqrt{2}}$	[T1]	2.44025	.88 dBm 752 GHz	
		m 81	$\sqrt{}$				V √ 1/2	[T1]	-24	.97 dBm	
-20		TA					V	T2	2.44171	242 GHz	
1MAX		7						7			1M2
-30		$\sqrt{}$						-			
-40	أمر									\wedge	
-50									- Jun		
-60	V										
-70											
-80											
-90											
Center 2	.441 G	Hz		300	kHz/				Spa	n 3 MHz	

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Product:		Т	Tablet PC			Т	est Mode:		Keep tra	nsmitting	
Mode			g Transmi	tting			est Voltage			3.7V	
Temperature			4 deg. C,				Humidity			6 RH	
Test Result:			Pass				Detector			PK	
20dB Bandwidth		1	.461MHz								
\triangle		Marker	1 [T1 n	ndB l	R	BW	30 ki	Hz Ri	F Att	20 dB	
Ref Lvl		ndB		00 dB		'BW	100 k				
10 dBm		BW 3	1.460921	84 MHz	S	WT	8.5 m	s Uı	nit	dBm	ı
10							\blacktriangledown_1	[T1]	-6	.03 dBm	
									2.48016	533 GHz	A
0					1		ndB		20	.00 dB	
				0 -/	7		в w	[m 1]	1.46092		
-10			N		V	_	\bigwedge_{n}	[T1]	2.47925	.24 dBm 150 GHz	
				V		**	√√ _{1/2}	[T1]		.03 dBm	
-20								V	2.48071	242 GHz	
1MAX		7						Ž			1M2
-30											
)			
-40		<u> </u>							\		
	الكرمر								h_a	\wedge	
-50	~/ <mark>W</mark>										
-60										ww	
										· (//L	
-70											
-80											
-90 Cont on 3	40 077	_		300	1-11- '				G		
Center 2	.48 GH	Z		300	kHz/				Spa	n 3 MHz	

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8QPSK Modula	tion									
Product:		Γ	ablet PC			Test Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting	-	Γest Voltage	:	DC	23.7V	
Temperature		2	4 deg. C,			Humidity		569	% RH	
Test Result:			Pass			Detector]	PK	
20dB Bandwidth		1	.479MHz							
Ŕ		Marker	1 [T1 n	idB]	RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	VBW					
10 dBm		BW I	1.478957	92 MHz	SWT	8.5 m	s U	nit	dBm	
10						v ₁	[T1]	- 5	.37 dBm	A
								2.40200	902 GHz	
0						ndl	8	20	0.00 dB	
				\sim	\	BW ▼ _{Tj}	[T1]	1.47895	792 MHz	
-10			~~~	~/	V V \	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2.40126		
					Ĭ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	[T1]	-25		
-20		T/	/				W_2	2.40274	248 GHz	1MA
-30		$\sqrt{}$								IMA
-30	/	~					7			
-40								ل ا	^	
-50	,							The state of the s	m	
-60										
-70										
-80										
-90 Center 2	402 0			300	letter /			Cr	on 2 MII-	
	3.SEP.2		:06:16	300	кпа/			5Pe	an 3 MHz	

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Product:		Γ	Tablet PC			T	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting		Те	est Voltage			3.7V	
Temperature			4 deg. C,	=			Humidity		56%	6 RH	
Test Result:			Pass				Detector		I	PK	
0dB Bandwidth		1	.473MHz								
<u> </u>		Marker	1 [T1 r	ndB]	Rl	BW	30 kl	ız Ri	7 Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 ki	łz			
10 dBm		BW I	1.472945	89 MHz	SI	WT	8.5 ms	5 Uı	nit	dBm	ı
10							v ₁	[T1]	- 5	.21 dBm	A
									2.44100	301 GHz	-
0					ļ		ndB		20	.00 dB	
							BW $oldsymbol{ abla}_{ ext{T1}}$	[T1]	1.47294	589 MHz	
-10			~~~	~/ V	 ~ ~ \	abla	\	[+ +]	2.44026		
							~ 4/2V	[T1]	-24	.97 dBm	
-20 1MAX		T						T2	2.44173	647 GHz	1M2
-30								7			
-40									h Ly	Λ	
-50									W	Lun	
-60	•										
-70											
-80											
-90 Center 2	.441 GH	[z		300	kHz/				Spa	n 3 MHz	

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Product:		Tablet PC		Test Mo	de:	Keep tr	ansmitting	
Mode	Kee	eping Transmitting	g	Test Volta	age		C3.7V	
Temperature		24 deg. C,	-	Humidi		56	% RH	
Test Result:		Pass		Detecto			PK	
0dB Bandwidth		1.479MHz						
<u> </u>	Mark	er 1 [T1 ndB] R	BW 30	kHz	RF Att	20 dB	
Ref Lvl	ndB	20.00	dB V	BW 100	kHz			
10 dBm	BW	1.47895792	MHz S	WT 8.5	ms	Unit	dBm	
10				_	1 [T1]] –	6.35 dBm	
						2.4800	0902 GHz	A
0				n	ıdB	2	0.00 dB	
			_ *		W Tl [T]	1.4789		
-10			/ \~ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	T1 [T1	2.4792	6.51 dBm 5752 GHz	
				1 M	T2 [T1			
-20		~			<u> </u>	2.4807	3647 GHz	
1MAX		-			VT 2	2		1MA
-30						7		
-40						4	\wedge	
-50								
-60						•	www	
-70								
-80								
-90 Center 2.4	8 GHz		300 kHz/			Sn	an 3 MHz	
	- -		/			J.		

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10.0 FCC ID Label

FCC ID: RBD-W113P

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--



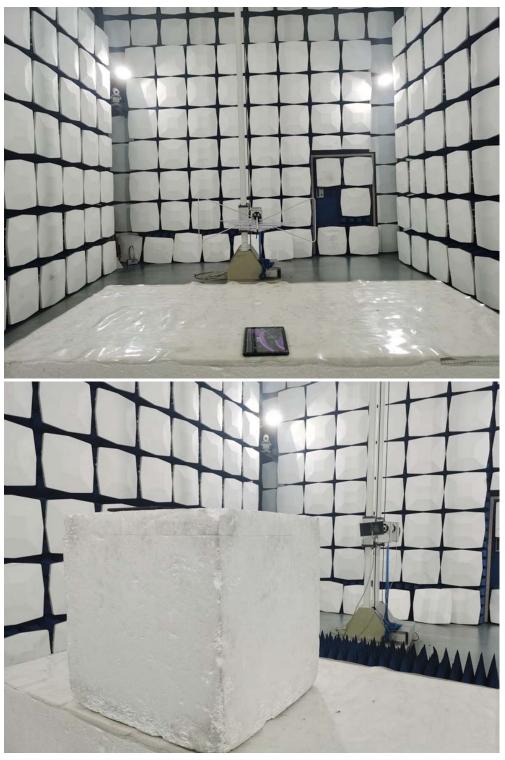
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Radiated emission test view



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

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11.2 Photographs – EUT

Outside View



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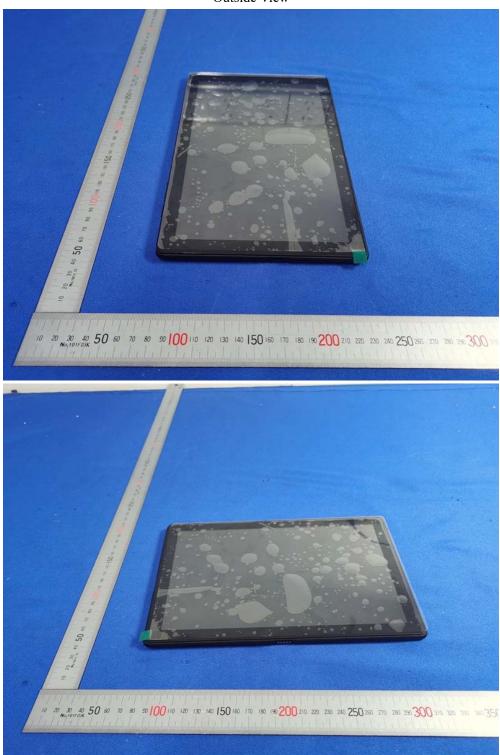
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Outside View



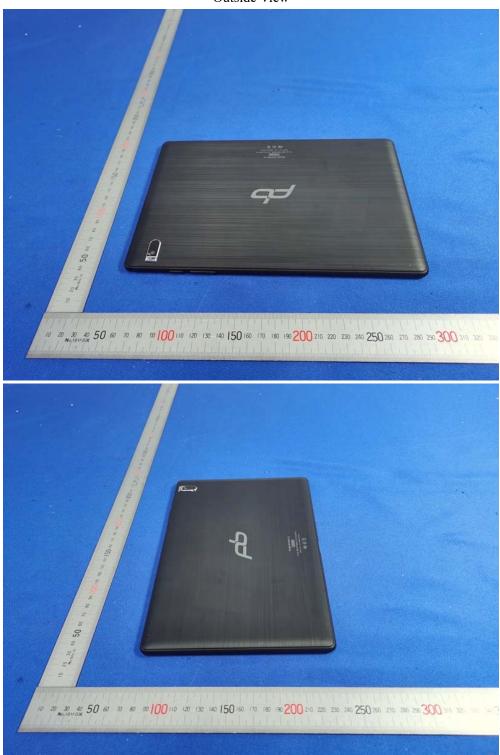
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Outside View



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Outside View



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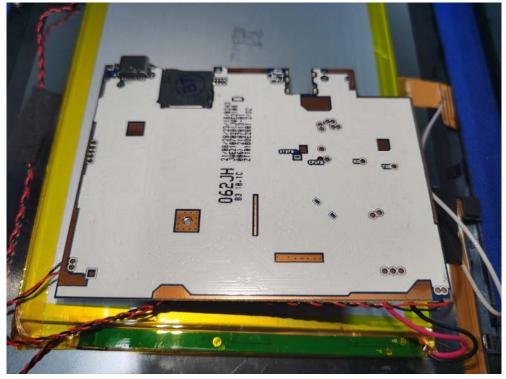
Report No.: TW2109117-02E

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Inside View





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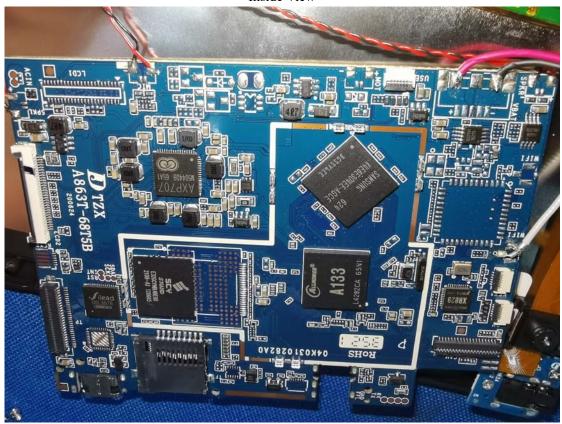
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Inside View



-- End of the report--