

# FCC 47 CFR PART 15 SUBPART B CERTIFICATION TEST REPORT

For

#### **Tablet**

MODEL No.: MID1026-MA, TTBKB10-01B, TTBKB10-01P, TTBKB10-01G, Tanoshi 2-in-1

FCC ID: XMF-MID1026MA

**REPORT NO: ES171130998E** 

**ISSUE DATE: January 03, 2018** 

Prepared for

Lightcomm Technology Co., Ltd.
RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI WAN STREET, FO TAN SHATIN NEW TERRITORIES, HONGKONG

Prepared by

EMTEK(SHENZHEN) CO., LTD.

Bldg 69, Majialong Industry Zone, NanshanDistrict,Shenzhen,
Guangdong, China
TEL: 86-755-26954280
FAX: 86-755-26954282

TRF NO. FCC15/A Page 1 of 32 Report No.: ES171130998E Ver.1.0



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#### **TEST REPORT DESCRIPTION**

Applicant:	Lightcomm Technology Co., Ltd. RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI WAN STREET, FO TAN SHATIN NEW TERRITORIES, HONGKONG
Manufacture:	Huizhou Hengdu Electronics Co., Ltd. DIP South Area, Huiao Highway, Huizhou, Guangdong, China
Product Description:	Tablet
Model Number:	MID1026-MA, TTBKB10-01B, TTBKB10-01P, TTBKB10-01G, Tanoshi 2-in-1
File Number:	ES171130998E

#### **Measurement Procedure Used:**

APPLICABLE STANDARDS					
STANDARD TEST RESULT					
ANSI C63.4-2014 FCC 47 CFR Part 15, Subpart B Class B	PASS				

The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (SHENZHEN) CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test	:	December 02, 2017 to January 03, 2018
Prepared by	:	Sevin Li/Editor
Reviewer	:	Joe Xia/Supervisor
Approved & Authorized Signe	er:	Lisa Wang/Manager

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# **Modified Information**

Version	Report No.	Revision Data	Summary
Ver.1.0	ES171130998E	/	Original Version



# 1. SUMMARY OF TEST RESULTS

	EMISSION				
Description of Test Item	Standard & Limits	Results			
Conducted Disturbance at Mains Terminals	FCC Part 15, Subpart B, Class B ANSI C63.4-2014	Pass			
Radiated Disturbance FCC Part 15, Subpart B, Class B ANSI C63.4-2014 Pass					
Note: N/A is an abbreviation for Not Applicable.					



#### 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT : Tablet

MID1026-MA, TTBKB10-01B, TTBKB10-01P, TTBKB10-01G,

Tanoshi 2-in-1

Model Number : (Note: These models are identical in circuitry and electrical, mechanical

and physical construction; the only differences are the trademark and model number. for trading purpose. We prepare MID1026-MA for test.)

Power supply : Adapter:

Model: TEKA012-0502000UK

AC Input: 100-240V~ 50/60Hz, 0.35A MAX

DC Output: 5V 2.0A

Applicant : Lightcomm Technology Co., Ltd.

Address : RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI WAN

STREET, FO TAN SHATIN NEW TERRITORIES, HONGKONG

Manufacturer : Huizhou Hengdu Electronics Co., Ltd.

Address : DIP South Area, Huiao Highway, Huizhou, Guangdong, China

Date of Received : December 02, 2017

Date of Test : December 02, 2017 to January 03, 2018

#### 2.1. Independent Operation Modes

A. On

1. Camera Mode (Front)

a. AC 120V

b. DC 3.7V

2. Camera Mode (Back)

a. AC 120V

b. DC 3.7V

3. PC data Transfer

a. AC 120V

b. DC 3.7V

4. Video Playing

a. AC 120V

b. DC 3.7V

5. SD Card Playing

a. AC 120V

b. DC 3.7V

....

B. Stand-By

C. Off



#### 2.2. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emission	AC 120V	Mod A	Mod A.3.a
Radiated emissions (Up to 1 GHz)	AC 120V, DC 3.7V	Mod A	Mod A.3.a
Radiated emissions (Above 1 GHz	AC 120V, DC 3.7V	Mod A	Mod A.3.a

#### 2.3. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2016.10.24

The certificate is valid until 2022.10.28

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L2291.

Accredited by TUV Rheinland Shenzhen 2016.5.19

The Laboratory has been assessed according to the requirements

ISO/IEC 17025.

Accredited by FCC, August 03, 2017

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by Industry Canada, November 24, 2015 The Certificate Registration Number is 4480A.

Name of Firm : EMTEK (SHENZHEN) CO., LTD.
Site Location : Bldg 69, Majialong Industry Zone,

Nanshan District, Shenzhen, Guangdong, China

#### 2.4. Test Software

Item Software

Conducted Disturbance at : EMTEK(Ver.CON-03A1)-Shenzhen

Mains Terminals

Radiated Disturbance : EMTEK(Ver.RA-03A1)-Shenzhen

#### 2.5. Description of Support Device

	OUTSIDE SUPPORT EQUIPMENT								
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Note		
1.	LCD TV	KDL-32E	N/A	N/A	SONY	N/A	N/A		
2.	SD Card	DTSE9	N/A	N/A	Kingston	N/A	N/A		
3.	PC	M713A	SA125821 90	N/A	Lenovo	N/A	N/A		
4.	Keyboard	KB-0225	41A5039	N/A	Lenovo	N/A	N/A		
5.	Mouse	MO28UOL	44D2639	N/A	Lenovo	N/A	2*PCS		



# 2.6. Measurement Uncertainty

Test Item Uncertainty

Conducted Emission Uncertainty : 3.16dB(9k~150kHz Conduction 2#)

2.90dB(150k-30MHz Conduction 2#)

Radiated Emission Uncertainty

(3m Chamber)

: 3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V)

4.46dB (1~6GHz)



# 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. For Power Line Conducted Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
$\checkmark$	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 21, 2017	1 Year
V	L.I.S.N.	ROHDE & SCHWARZ	ESH3-Z5 100191		May 20, 2017	1 Year
$\checkmark$	50Ω Coaxial Switch Anritsu		MP59B	M20531	May 21, 2017	1 Year
$\checkmark$	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 20, 2017	1 Year

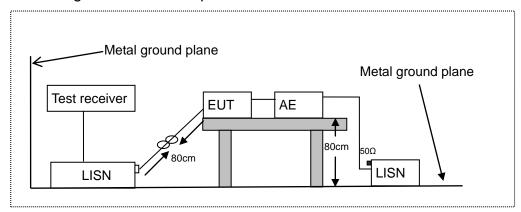
#### 3.2. For Radiated Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
$\checkmark$	EMI Test Receiver	Rohde & Schwarz	ESCI	101414	May 20, 2017	1 Year
$\checkmark$	Pre-Amplifier	LUNAR-EM	LNA30M3G-25	J10100000071	May 20, 2017	1 Year
$\checkmark$	Bilog Antenna	Schwarzbeck	VULB9163	660	May 21, 2017	1 Year
ightharpoons	Cable	H+B	NmSm-05-C15	N/A	May 21, 2017	1 Year
			052			
$\checkmark$	Cable	H+B	NmSm-2-C152	N/A	May 21, 2017	1 Year
			01			
$\overline{\checkmark}$	Cable	H+B	NmNm-7-C157	N/A	May 21, 2017	1 Year
			02			
$\checkmark$	EMI Test Receiver	Rohde & Schwarz FSV40		132.1-3008K39-	May 20, 2017	1 Year
	LIVII TEST INECEIVE	Nonde & Schwarz		100967-AP		
$\overline{\checkmark}$	Pre-Amplifier	Lunar EM	LNA1G18-48	J101113101000	May 20, 2017	1 Year
	i re-Ampililei	Lunai Livi	LIVATO 10-40	1		
$\checkmark$	Horn Antenna	Schwarzbeck	BBHA 9120	1178	May 21, 2017	1 Year
$\checkmark$	Cable	H+B	SAC-40G-1	414	May 21, 2017	1 Year
$\checkmark$	Cable	H+B	SUCOFLEX10	MY14871/4	May 21, 2017	1 Year
			4		-	
V	Cable	H+B	BLU18A-NmS	D8501	May 21, 2017	1 Year
			m-6500			



#### 4. POWER LINE CONDUCTED EMISSION MEASUREMENT

#### 4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network

AE: Associated equipment EUT: Equipment under test

#### 4.2. Limits

FCC Part 15, Subpart B, Class B

Frequency			Limit (dBμV)		
	(MHz	)	Quasi-peak Level	Average Level	
0.15	15 ~ 0.50		66.0 ~ 56.0 *	56.0 ~ 46.0 *	
0.50	~	5.00	56.0	46.0	
5.00	~	30.00	60.0	50.0	

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

#### 4.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.



Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation: Emission Level (dB $\mu$ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V) Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V)

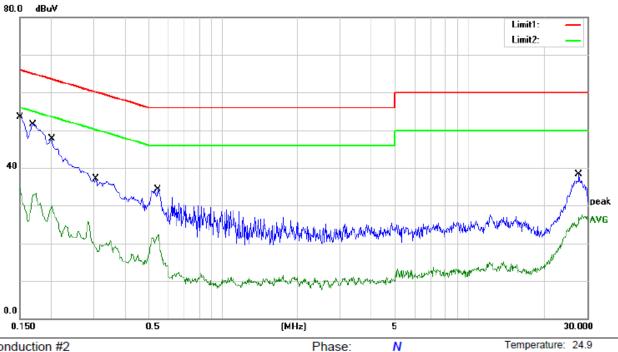
#### 4.4. Measuring Results

#### PASS.

Please refer to following pages.



54 %



Power: AC 120V/50Hz

Site Conduction #2

Limit: (CE)FCC PART 15 class B\_QP

Mode: PC transfer

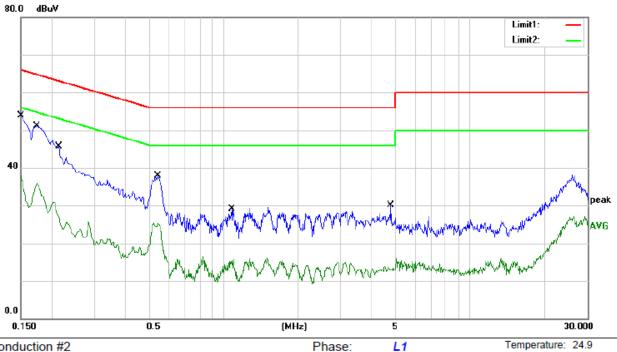
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1	*	0.1500	43.63	9.89	53.52	66.00	-12.48	QP	
2		0.1500	24.64	9.89	34.53	56.00	-21.47	AVG	
3		0.1712	41.40	9.89	51.29	64.90	-13.61	QP	
4		0.1712	23.33	9.89	33.22	54.90	-21.68	AVG	
5		0.2020	37.77	9.90	47.67	63.53	-15.86	QP	
6		0.2020	20.01	9.90	29.91	53.53	-23.62	AVG	
7		0.3060	27.17	9.90	37.07	60.08	-23.01	QP	
8		0.3060	15.86	9.90	25.76	50.08	-24.32	AVG	
9		0.5460	24.42	9.92	34.34	56.00	-21.66	QP	
10		0.5460	12.35	9.92	22.27	46.00	-23.73	AVG	
11		27.8060	27.95	10.28	38.23	60.00	-21.77	QP	
12		27.8060	17.17	10.28	27.45	50.00	-22.55	AVG	

<sup>\*:</sup>Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:KK



54 %



Power: AC 120V/50Hz

Site Conduction #2

Limit: (CE)FCC PART 15 class B\_QP

Mode: PC transfer

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	44.10	9.89	53.99	66.00	-12.01	QP	
2		0.1500	27.91	9.89	37.80	56.00	-18.20	AVG	
3		0.1740	41.16	9.89	51.05	64.77	-13.72	QP	
4		0.1740	25.99	9.89	35.88	54.77	-18.89	AVG	
5		0.2140	35.73	9.90	45.63	63.05	-17.42	QP	
6		0.2140	21.03	9.90	30.93	53.05	-22.12	AVG	
7		0.5420	27.91	9.92	37.83	56.00	-18.17	QP	
8		0.5420	15.33	9.92	25.25	46.00	-20.75	AVG	
9		1.0780	19.16	9.96	29.12	56.00	-26.88	QP	
10		1.0780	5.91	9.96	15.87	46.00	-30.13	AVG	
11		4.7860	20.16	10.01	30.17	56.00	-25.83	QP	
12		4.7860	3.82	10.01	13.83	46.00	-32.17	AVG	

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:KK



## 5. RADIATED EMISSION MEASUREMENT (UP TO 1GHz)

# 5.1. Block Diagram of Test Setup RF Cable Pre-Amplifier RF Cable & Turntable 80 cm

#### 5.2. Radiated Limit

FCC Part 15, Subpart B, Class B

**EMI Test Receiver** 

F	Freque	ency	Distance	Field Strengths Limit			
	MH	Z	Meters	μV/m	dB(μV)/m		
30	30 ~ 88		3	100	40.0		
88	~	216	3	150	43.5		
216	~	960	3	200	46.0		
960	~	1000	3	500	54.0		

Ground Plane

#### 5.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and



mode of operation had been identified.

The bandwidth of the Receiver is set at 120 kHz.

Test results were obtained from the following equation: Emission level (dB $\mu$ V/m) = Antenna Factor -Amp Factor +Cable Loss + Reading Margin (dB) = Emission Level (dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

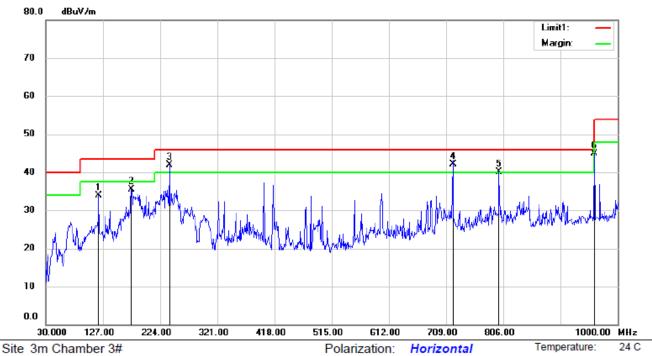
#### 5.4. Measuring Results

#### PASS.

Please refer to following pages.



53 %



Limit: (RE)FCC PART 15 CLASS B

Mode:PC Transfer

Note:

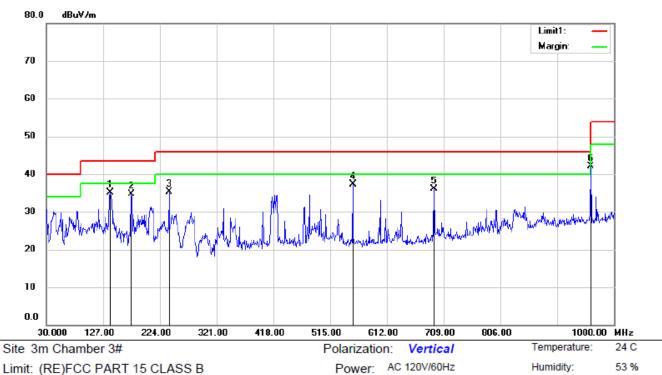
No.	MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		120.2100	51.39	-17.45	33.94	43.50	-9.56	QP			
2		175.5000	53.28	-17.76	35.52	43.50	-7.98	QP			
3	İ	239.5200	55.84	-13.92	41.92	46.00	-4.08	QP			
4	*	720.6400	45.57	-3.37	42.20	46.00	-3.80	QP			
5	ļ	799.2100	42.22	-2.13	40.09	46.00	-5.91	QP			
6		960.2300	44.24	0.71	44.95	54.00	-9.05	QP			

Power: AC 120V/60Hz

\*:Maximum data Operator: CSL x:Over limit !:over margin



53 %



Limit: (RE)FCC PART 15 CLASS B

Mode:PC Transfer

Note:

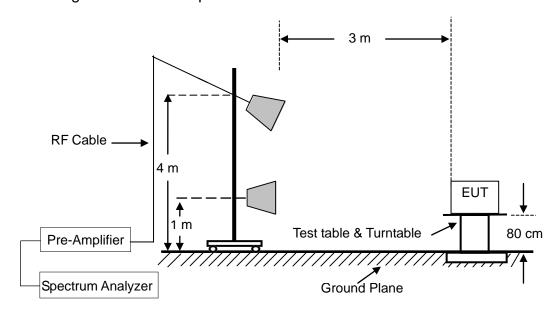
No.	M	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	138.6400	54.37	-19.20	35.17	43.50	-8.33	QP			
2		175.5000	52.42	-17.76	34.66	43.50	-8.84	QP			
3		239.5200	49.25	-13.92	35.33	46.00	-10.67	QP			
4		553.8000	43.92	-6.57	37.35	46.00	-8.65	QP			
5		692.5100	39.83	-3.80	36.03	46.00	-9.97	QP			
6		960.2300	41.30	0.71	42.01	54.00	-11.99	QP			

<sup>\*:</sup>Maximum data x:Over limit !:over margin Operator: CSL



# 6. RADIATED EMISSION MEASUREMENT (ABOVE 1GHZ)

#### 6.1. Block Diagram of Test Setup



#### 6.2. Radiated Limit

FCC Part 15, Subpart B, Class B

Frequency range	Average limit	Peak limit		
GHz	dB(μV/m)	dB(μV/m)		
Above 1000	54	74		

Note: The highest internal source of an EUT is defined as the highest frequency generated or used in the device or on which the EUT operates or tunes. If the highest frequency of the internal sources of the EUT is less than 1.705 MHz, the measurement shall only be made up to 30 MHz. If the highest frequency of the internal sources of the EUT is between 1.705 MHz and 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

#### 6.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.



The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with peak detector for peak values, and use RBW=1 MHz and VBW=10 Hz with peak detector for Average Values.

Test results were obtained from the following equation: Emission level (dB $\mu$ V/m) = Antenna Factor - Amp Factor +Cable Loss + Reading Margin (dB) = Emission Level (dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

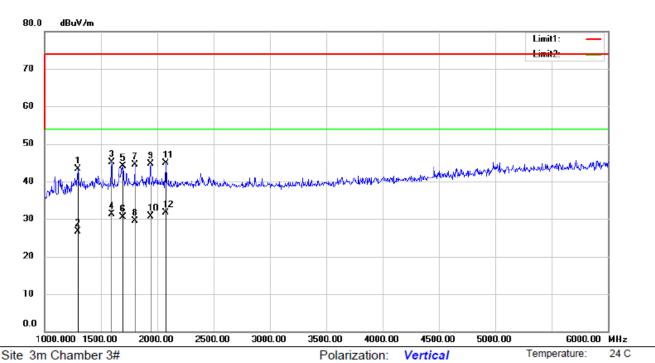
#### 6.4. Measuring Results

#### PASS.

Please refer to following pages.



53 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 CLASS B

Mode:PC Transfer

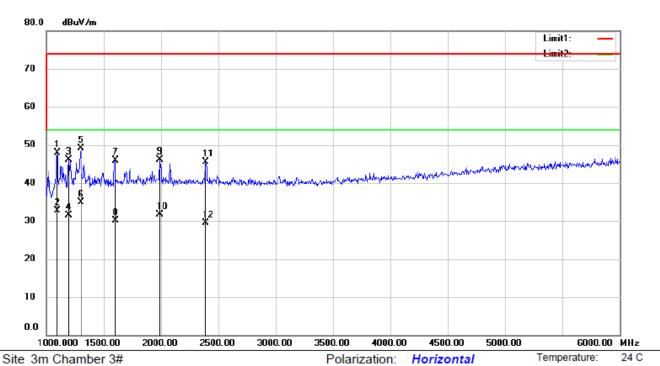
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1295.000	65.18	-21.88	43.30	74.00	-30.70	peak			
2		1295.000	48.68	-21.88	26.80	54.00	-27.20	AVG			
3		1595.000	66.76	-21.68	45.08	74.00	-28.92	peak			
4		1595.000	53.08	-21.68	31.40	54.00	-22.60	AVG			
5		1695.000	65.61	-21.60	44.01	74.00	-29.99	peak			
6		1695.000	52.10	-21.60	30.50	54.00	-23.50	AVG			
7		1800.000	65.96	-21.53	44.43	74.00	-29.57	peak			
8		1800.000	51.03	-21.53	29.50	54.00	-24.50	AVG			
9		1940.000	66.07	-21.42	44.65	74.00	-29.35	peak			
10		1940.000	52.12	-21.42	30.70	54.00	-23.30	AVG			
11		2075.000	66.29	-21.29	45.00	74.00	-29.00	peak			
12	*	2075.000	53.09	-21.29	31.80	54.00	-22.20	AVG			

\*:Maximum data Operator: CSL x:Over limit !:over margin



53 %



Power: AC 120V/60Hz

one off chamber on

Limit: (RE)FCC PART 15 CLASS B

Mode:PC Transfer

Note:

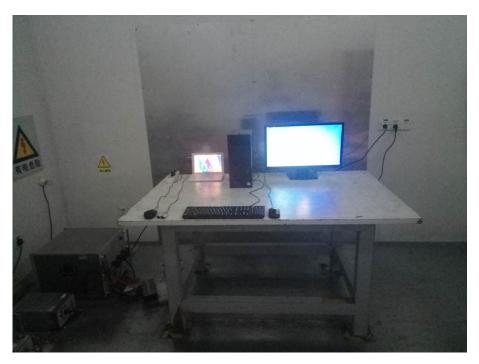
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1095.000	69.97	-22.01	47.96	74.00	-26.04	peak			
2		1095.000	54.71	-22.01	32.70	54.00	-21.30	AVG			
3		1195.000	68.00	-21.95	46.05	74.00	-27.95	peak			
4		1195.000	53.55	-21.95	31.60	54.00	-22.40	AVG			
5		1300.000	70.93	-21.88	49.05	74.00	-24.95	peak			
6	*	1300.000	56.78	-21.88	34.90	54.00	-19.10	AVG			
7		1600.000	67.62	-21.67	45.95	74.00	-28.05	peak			
8		1600.000	51.87	-21.67	30.20	54.00	-23.80	AVG			
9		1990.000	67.53	-21.39	46.14	74.00	-27.86	peak			
10		1990.000	53.19	-21.39	31.80	54.00	-22.20	AVG			
11		2390.000	66.37	-20.93	45.44	74.00	-28.56	peak			
12		2390.000	50.43	-20.93	29.50	54.00	-24.50	AVG			

\*:Maximum data x:Over limit !:over margin Operator: CSL



# 7. PHOTOGRAPHS

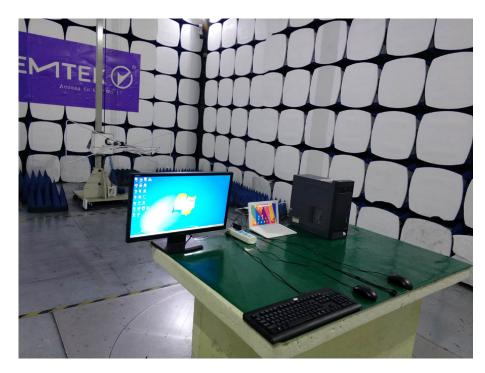
# 7.1. Photos of Conducted Emission Measurement







# 7.2. Photos of Radiation Emission Measurement







# APPENDIX (Photos of EUT)

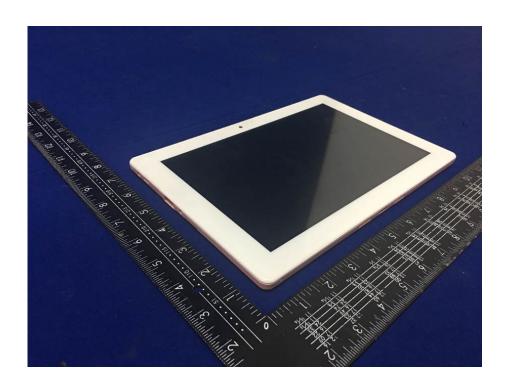










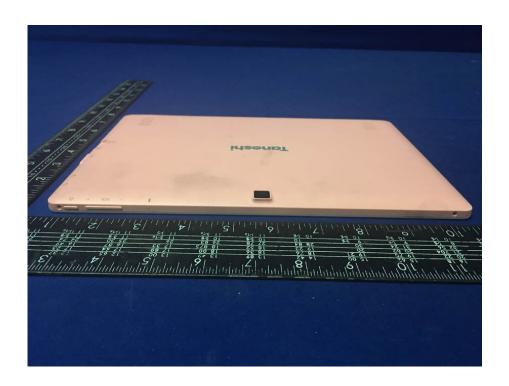






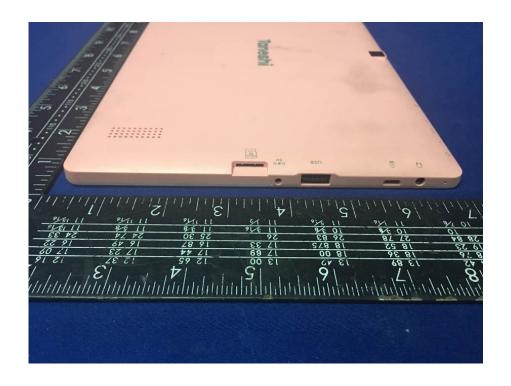






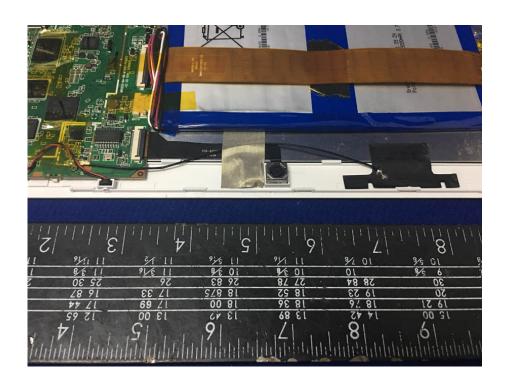


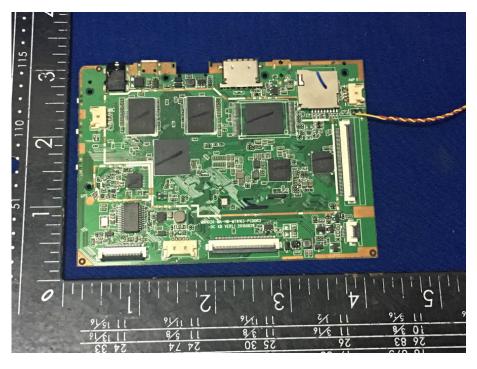






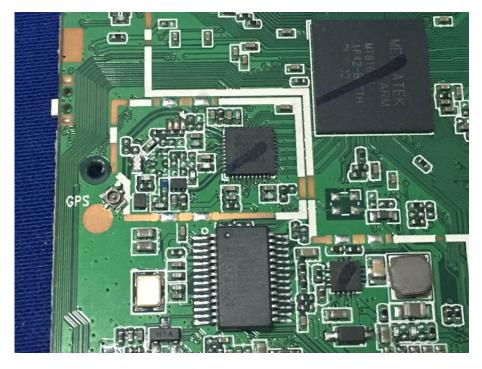




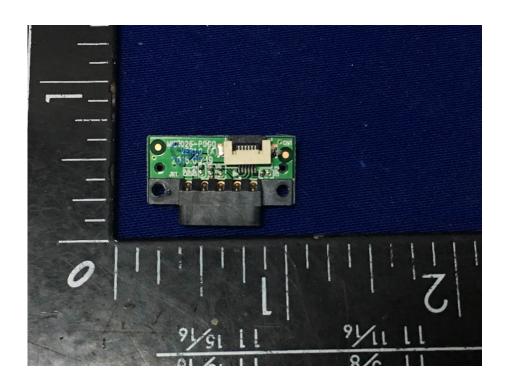


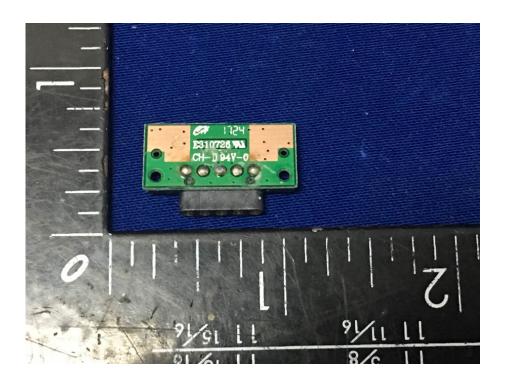












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