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FCC PART 15 SUBPART C TEST REPORT

Part 15.247

Report Reference No. CTL1507151956-WF01

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Date of issue June 11, 2015

Test Laboratory Name Shenzhen CTL Testing Technology Co., Ltd.

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Applicant's name HONG KONG NATURAL SOUND ELECTRONICS LIMITED

Address FLAT/RM M 4/F CONTINENTAL MANSION, 300 KING'S ROAD,
Hong Kong

Test specification:

Standard FCC Part 15.247: Operation within the bands 902–928 MHz, 2400–
2483.5 MHz, and 5725–5850 MHz.

TRF Originator Shenzhen CTL Testing Technology Co., Ltd.

Master TRF Dated 2011-01

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Test item description Tablet PC

FCC ID PWK-PC790BXC

Trade Mark trio

Model/Type reference HM-7845Q, WH785H, WH78XX, PC790BXC, Trio-7.85

Modulation 802.11b DSSS, 802.11g/n: OFDM

Work Frequency Range 802.11b/g/n(20MHz): 2412~2462MHz

802.11n(40MHz): 2422~2452

Antenna Type Internal

Antenna Gain 0.5dBi

Result **Positive**

TEST REPORT

Test Report No. :	CTL1507151956-WF01	June 11, 2015 Date of issue
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Equipment under Test : Tablet PC

Model /Type : HM-7845Q

Listed Modes : WH785H, WH78XX, PC790BXC, Trio-7.85

Difference Description : Only the color and model's name is different

Applicant : HONG KONG NATURAL SOUND ELECTRONICS LIMITED

Address : FLAT/RM M 4/F CONTINENTAL MANSION, 300 KING'S ROAD, Hong Kong

Manufacturer : Jiangxi Wei Heng Digital Company Limited

Address : National High-tech Industrial Development Zone, Xinyu City, Jiangxi Province, China

Test Result according to the standards on page 4:

Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

FCC Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2009: American National Standard for Testing Unlicensed Wireless Devices.

ANSI C63.4-2009

[**KDB Publication No. 558074 D01 v03r01 Guidance on Measurements for Digital Transmission Systems**](#)



2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	June 03, 2015
	:	
Testing commenced on	:	June 03, 2015
	:	
Testing concluded on	:	June 11, 2015

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input checked="" type="radio"/> 120V / 60 Hz	<input type="radio"/> 115V / 60Hz
	:	<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
	:	<input type="radio"/> Other (specified in blank below)	

DC 3.7V from battery

Description of the test mode

IEEE 802.11b/g/n(HT20): Thirteen channels are provided to the EUT, but only eleventh channels used for USA.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

IEEE 802.11n (HT40)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
3	2422	8	2447
4	2427	9	2452
5	2432		
6	2437		
7	2442		

2.3. Short description of the Equipment under Test (EUT)

Tablet PC, support 802.11b/g/n.

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

2.4. EUT operation mode

Test Mode:

1. The EUT has been tested under normal operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed. Channel low (2412MHz), mid (2437MHz) and high (2462MHz) for 802.11b/g/n(HT20) and Channel low (2422MHz), mid (2437MHz) and high (2452MHz) for 802.11 n HT40 with highest data rate are chosen for full testing.
3. Test Mode:

Test Mode(TM)	Description	Remark
1	Transmitting	802.11 b
2	Transmitting	802.11 g
3	Transmitting	802.11 n HT20
4	Transmitting	802.11 n HT40

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer

- supplied by the lab

Notebook PC (FCC DoC approved)

Manufacturer : DELL

Model No. : PP18L

AC adapter

Manufacturer : Shenzhen Perfect Gallant Tec Co., Ltd

Model No. : PGAE0500200U1UL

2.6. NOTE

1. The EUT is a 7.85" Tablet PC, The functions of the EUT listed as below:

	Test Standards	Reference Report
WLAN 802.11b/g, 802.11n	FCC Part 15 Subpart C (Section15.247) FCC Per 47 CFR 2.1091(b)	CTL1507151956-WF01

2. The frequency bands used in this EUT are listed as follows:

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
802.11b	✓	—	—	—
802.11g	✓	—	—	—
802.11n(20MHz)	✓	—	—	—
802.11n(40MHz)	✓	—	—	—

3. The EUT incorporates a SISO function, Physically, the EUT provides two completed transmitter and two completed receivers.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX

2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCCID: PWK-PC790BXC filing to comply with of the FCC part15.247 Rules.

2.8. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.
Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

The sites are constructed in conformance with the requirements of ANSI C6230, ANSI C63.4 (2009) and CISPR Publication 22.

3.2. Test Facility

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

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. 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 970318, December 19, 2013.

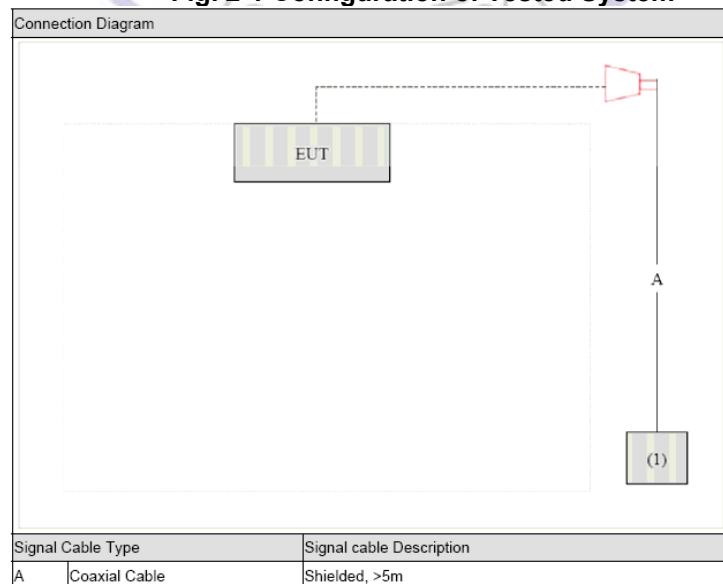
3.3. Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	1~12.75GHz	4.32dB	(1)
Radiated Emission	12.75GHz-25 GHz	4.68dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2015/06/02	2016/06/01
EMI Test Receiver	R&S	ESCI	103710	2015/06/02	2016/06/01
Spectrum Analyzer	Agilent	E4407B	MY41440676	2015/05/21	2016/05/20
Controller	EM Electronics	Controller EM 1000	N/A	2015/05/21	2016/05/20
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2015/05/19	2016/05/18
Active Loop Antenna	SCHWARZBECK	FMZB1519	1519-037	2015/05/19	2016/05/18
LISN	R&S	ENV216	3560.6550.12	2015/06/02	2016/06/01
LISN	R&S	ESH2-Z5	860014/010	2015/06/02	2016/06/01
Amplifier	Agilent	8349B	3008A02306	2015/05/19	2016/05/18
Amplifier	Agilent	8447D	2944A10176	2015/05/19	2016/05/18
Transient Limiter	SCHWARZCECK	VTSD 9561F	9666	2015/06/02	2016/06/01
Temperature/Humidity Meter	Gangxing	CTH-608	02	2015/05/20	2016/05/19

3.7. Summary of Test Result

FCC PART 15			
FCC Part 15.207	AC Power Conducted Emission		PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions		PASS

Remark: The measurement uncertainty is not included in the test result.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	Keeping TX	11 Mbps	1
	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
Radiated Emission 30MHz~1GHz	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
Radiated Emission 1GHz~10th Harmonic	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9

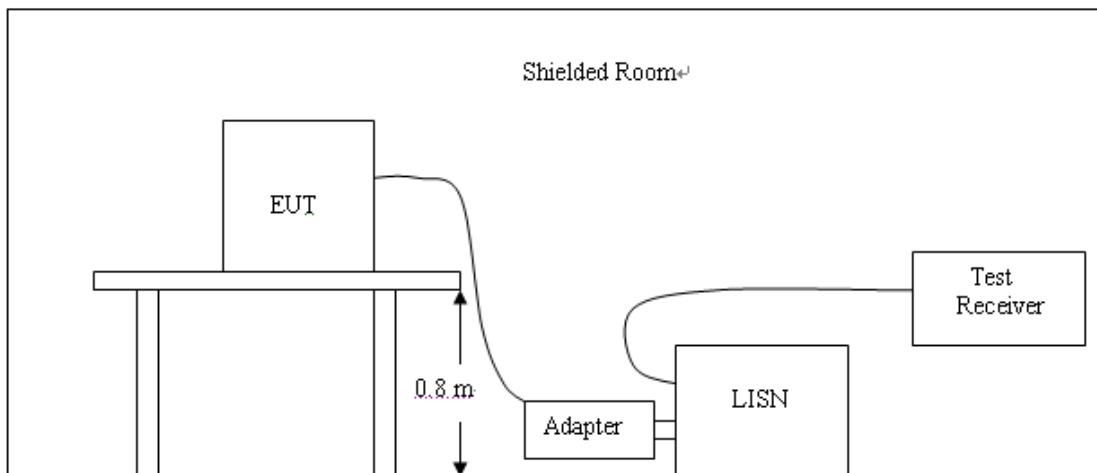
Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Remark: Product Tablet PC with FCC ID : PWK-PC790BXC and Model is HM-7845Q,WH785H, WH78XX, PC790BXC ,Trio-7.85 And product :Tablet PC ,Models : HM-7845Q, WH785H, WH78XX, With FCC ID :2ACH9HM-7845Q are electrically identical .So data of FCC ID : PWK-PC790BXC in report CTL1507151956-WF01 are same as data of FCC ID :2ACH9HM-7845Q in report CTL1506031501-WF01

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

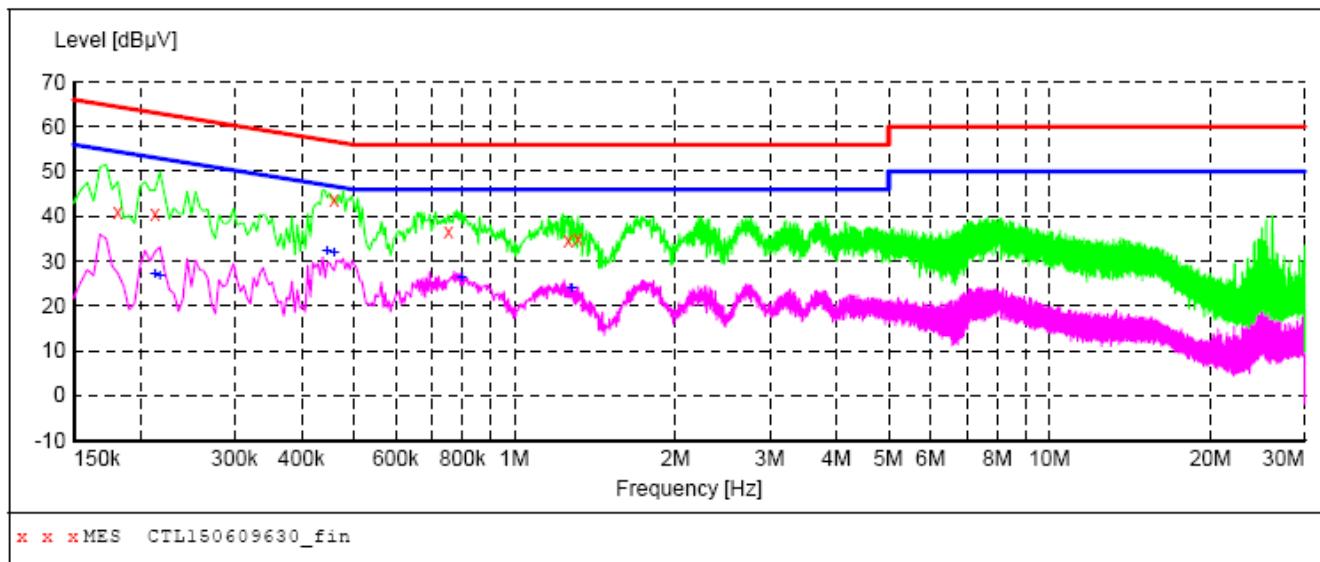
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

1. Please follow the guidelines in ANSI C63.4-2009.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

The RBW/VBW for 150KHz to 30MHz: 9KHz

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "CTL150609630_fin"**

6/9/2015 1:45PM

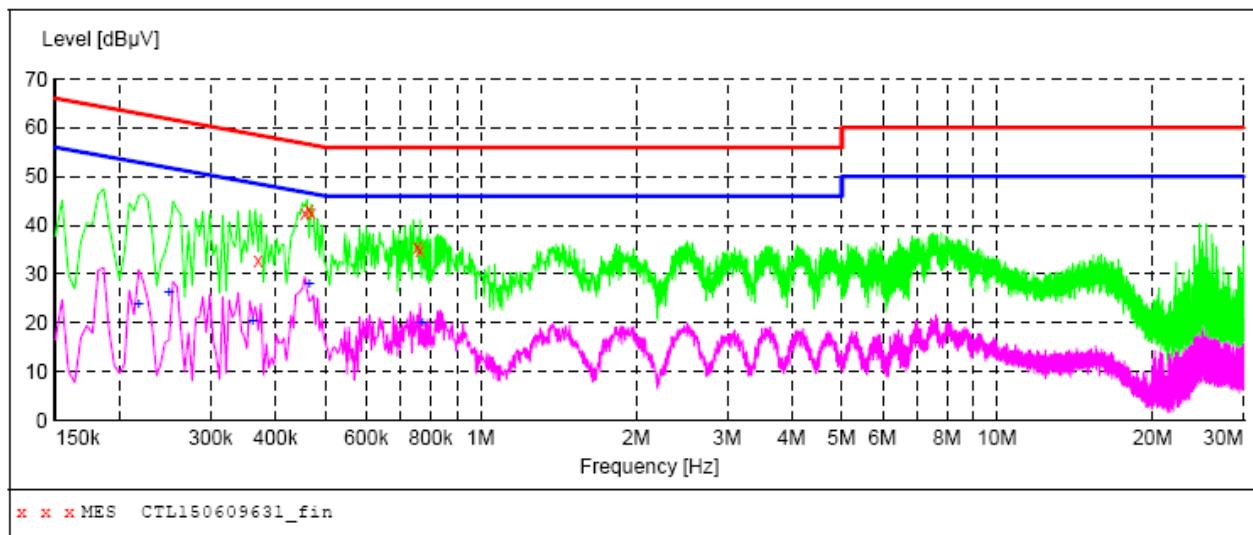
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.181500	41.00	10.2	64	23.4	QP	L1	GND
0.213000	40.70	10.2	63	22.4	QP	L1	GND
0.460500	43.80	10.2	57	12.9	QP	L1	GND
0.753000	36.40	10.2	56	19.6	QP	L1	GND
1.261500	34.80	10.3	56	21.2	QP	L1	GND
1.315500	35.10	10.3	56	20.9	QP	L1	GND

MEASUREMENT RESULT: "CTL150609630_fin2"

6/9/2015 1:45PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.213000	26.90	10.2	53	26.2	AV	L1	GND
0.217500	26.50	10.2	53	26.4	AV	L1	GND
0.447000	32.20	10.2	47	14.7	AV	L1	GND
0.460500	31.80	10.2	47	14.9	AV	L1	GND
0.798000	26.40	10.2	46	19.6	AV	L1	GND
1.279500	23.90	10.3	46	22.1	AV	L1	GND

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL150609631_fin"

6/9/2015 1:49PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.370500	32.80	10.2	59	25.7	QP	N	GND
0.456000	42.60	10.2	57	14.2	QP	N	GND
0.465000	43.20	10.2	57	13.4	QP	N	GND
0.469500	42.60	10.2	57	13.9	QP	N	GND
0.753000	35.60	10.2	56	20.4	QP	N	GND
0.762000	34.90	10.2	56	21.1	QP	N	GND

MEASUREMENT RESULT: "CTL150609631_fin2"

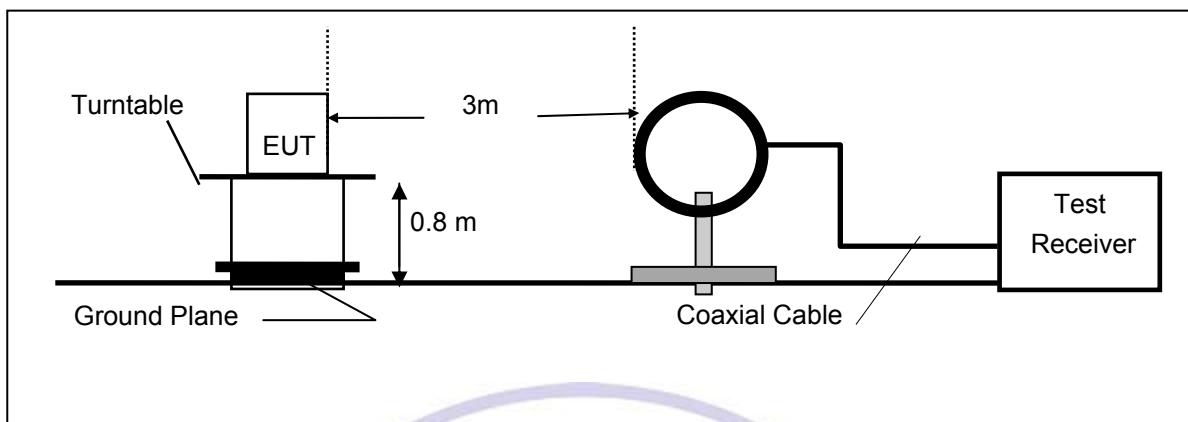
6/9/2015 1:49PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.217500	23.90	10.2	53	29.0	AV	N	GND
0.249000	26.30	10.2	52	25.5	AV	N	GND
0.361500	20.40	10.2	49	28.3	AV	N	GND
0.465000	28.10	10.2	47	18.5	AV	N	GND
0.771000	19.90	10.2	46	26.1	AV	N	GND

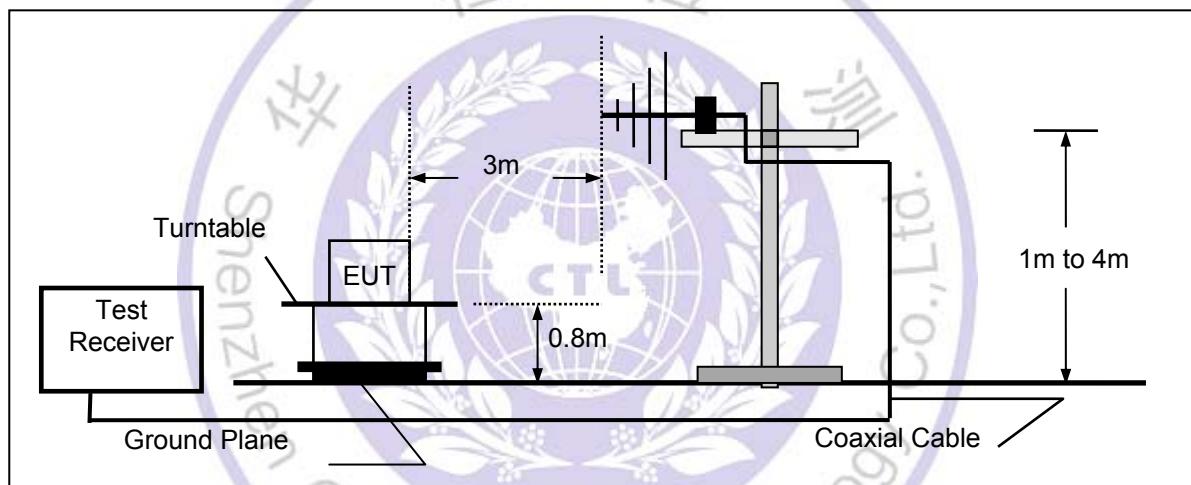
4.2. Radiated Emission Test

TEST CONFIGURATION

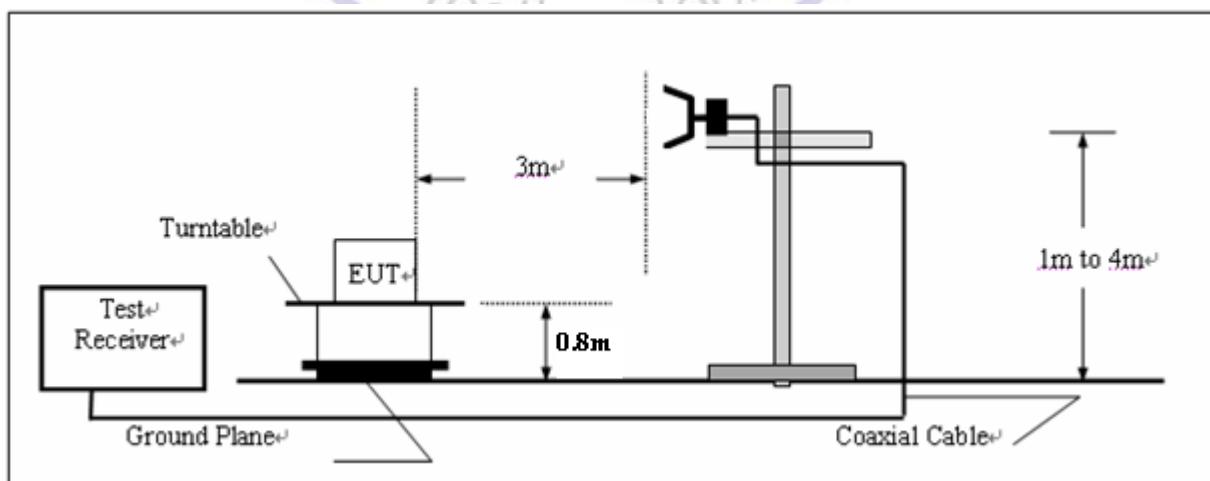
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

TEST PROCEDURE

1. The testing follows FCC KDB Publication No. 558074 D01 v03r01 (Measurement Guidelines of DTS).
2. The EUT was placed on a turn table which is 0.8m above ground plane.
3. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for f > 1 GHz, 100 kHz for f < 1 GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Repeat above procedures until all frequency measurements have been completed.

Note:

When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 60 degrees for H-plane and 90 degrees for E-plane.

LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

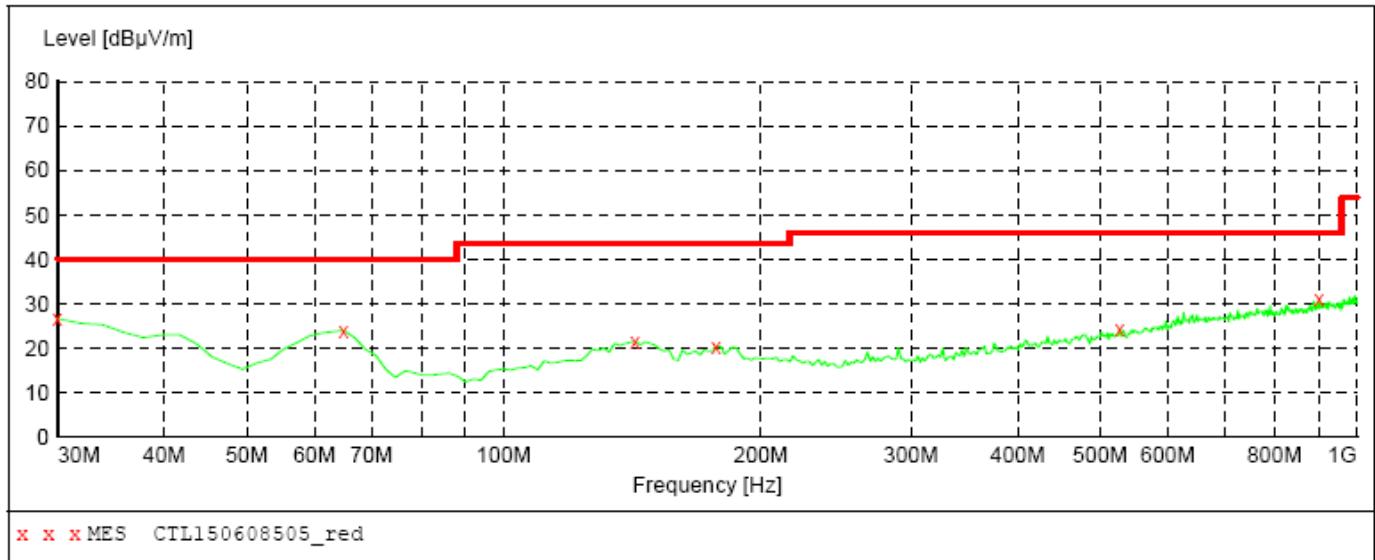
TEST RESULTS

Below 1GHz:

The radiated measurement are performed the each test mode (b/g/n) and channel (low/mid/high), the datum recorded below (802.11b mode, the middle channel) is the worst case for all the test mode and channel.

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start Frequency	Stop Frequency	Detector	Meas.	IF	Transducer
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	120 kHz	JB1



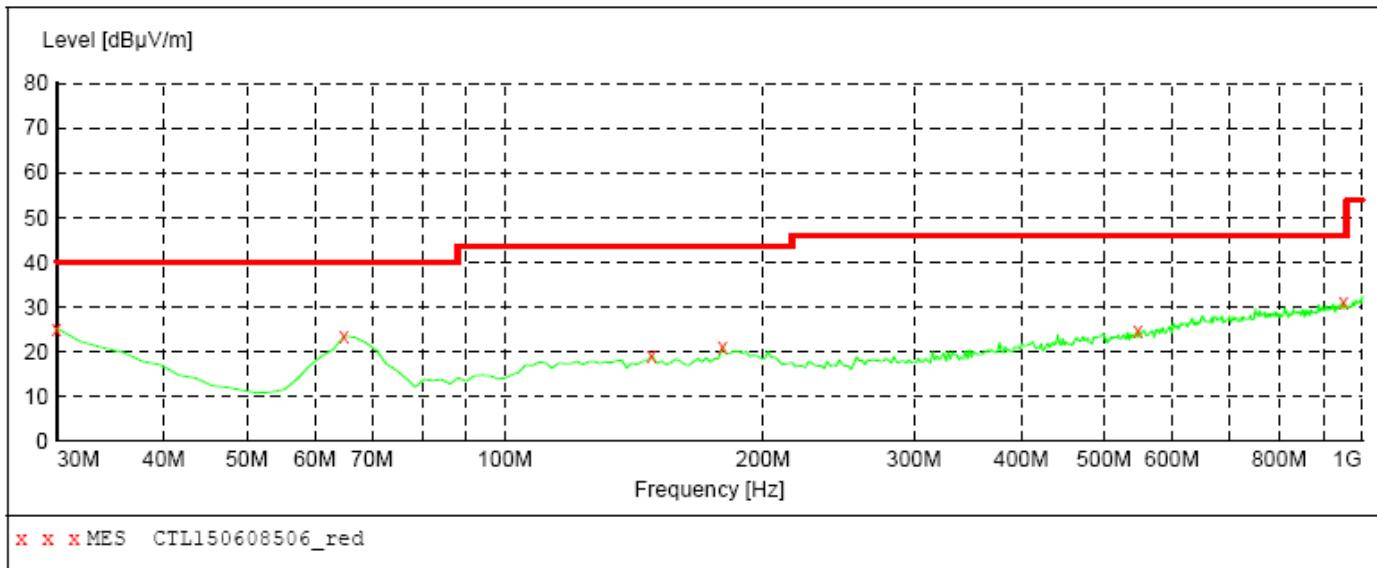
MEASUREMENT RESULT: "CTL150608505_red"

6/8/2015 9:16AM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	26.60	21.1	40.0	13.4	---	0.0	0.00	VERTICAL
64.920000	23.90	8.4	40.0	16.1	---	0.0	0.00	VERTICAL
142.520000	21.50	14.5	43.5	22.0	---	0.0	0.00	VERTICAL
177.440000	20.40	13.2	43.5	23.1	---	0.0	0.00	VERTICAL
526.640000	24.30	20.5	46.0	21.7	---	0.0	0.00	VERTICAL
903.000000	30.90	26.1	46.0	15.1	---	0.0	0.00	VERTICAL

SWEET TABLE: "test (30M-1G)"

Short Description:		Field Strength		
Start Frequency	Stop Frequency	Detector	Meas.	IF
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	120 kHz
				Transducer
				JB1

***MEASUREMENT RESULT: "CTL150608506_red"***

6/8/2015 9:18AM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	25.20	21.1	40.0	14.8	---	0.0	0.00	HORIZONTAL
64.920000	23.50	8.4	40.0	16.5	---	0.0	0.00	HORIZONTAL
148.340000	19.10	14.2	43.5	24.4	---	0.0	0.00	HORIZONTAL
179.380000	20.90	13.3	43.5	22.6	---	0.0	0.00	HORIZONTAL
547.980000	24.80	21.0	46.0	21.2	---	0.0	0.00	HORIZONTAL
951.500000	30.90	26.7	46.0	15.1	---	0.0	0.00	HORIZONTAL



Above 1GHz:

802.11b

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	V	2411.9	72.1	30.8	102.9	Fundamental	/	PK
	V	3200	48.1	-0.6	47.5	54(note3)	6.5	PK
	V	2390	35.2	32.2	67.4	74	6.6	PK
	V	2390	17.9	32.2	50.1	54	3.9	AV
	V	4824	49.1	2.6	51.7	54(note3)	2.3	PK
	V	7236	54.5	8.1	62.6	74	11.4	PK
	V	7236	39.0	8.9	47.9	54	6.1	AV
	H	24000	59.5	-8.9	50.6	54	3.4	PK
6	V	2437	71.2	31.2	102.4	Fundamental	/	PK
	V	3200	44.2	-0.6	43.6	54(note3)	10.4	PK
	V	4876	44.1	2.8	46.9	54(note3)	7.1	PK
	V	7298.5	54.9	8.8	63.7	74	10.3	PK
	V	7298.5	39.7	8.1	47.8	54	6.2	AV
	H	24000	59.6	-8.9	50.7	54	3.3	PK
11	V	2462.3	71.9	30.9	102.8	Fundamental	/	PK
	V	3200	46.7	-0.6	46.1	54(note3)	7.9	PK
	V	2483.5	35.9	30.2	66.1	74	7.9	PK
	V	2483.5	16.1	30.2	46.3	54	7.7	AV
	V	4927	44.9	3	47.9	54(note3)	6.1	PK
	V	7386	54.7	8.9	63.6	74	10.4	PK
	V	7392	38.9	8.9	47.8	54	6.2	AV
	H	24000	59.5	-8.9	50.6	54	3.4	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Remark: RBW 1MHz VBW 3MHz peak detector for PK value, RMS detector for AV value

802.11g

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	V	2411.9	69.8	31.9	101.7	Fundamental	/	PK
	V	3200	41.5	-0.6	40.9	54(note3)	13.1	PK
	V	2390	39.5	32.2	71.7	74	2.3	PK
	V	2390	19.9	32.2	52.1	54	1.9	AV
	V	4824	38.5	2.6	41.1	54(note3)	12.9	PK
	V	7236	53.8	8.9	62.7	74	11.3	PK
	V	7236	36.4	8.9	45.3	54	8.7	AV
	H	24000	59.8	-8.9	50.9	54	3.1	PK
6	V	2437	70.6	31.2	101.8	Fundamental	/	PK
	V	3200	43.2	-0.6	42.6	54(note3)	11.4	PK
	V	4876	44.3	2.8	47.1	54(note3)	6.9	PK
	V	7298.5	52.6	8.8	61.4	74	12.6	PK
	V	7298.5	37.4	8.8	46.2	54	7.8	AV
	H	24000	59.8	-8.9	50.9	54	3.1	PK
11	V	2462.3	70.6	30.9	101.5	Fundamental	/	PK
	V	3200	46.7	-0.6	46.1	54(note3)	7.9	PK
	V	2483.5	38.3	30.2	68.5	74	5.5	PK
	V	2483.5	17.0	30.2	47.2	54	6.8	AV
	V	4927	45.3	3.0	48.3	54(note3)	5.7	PK
	V	7386	54.0	8.9	62.9	74	11.1	PK
	V	7392	36.4	8.9	45.3	54	8.7	AV
	H	24000	59.5	-8.9	50.6	54	3.4	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Remark: RBW 1MHz VBW 3MHz peak detector for PK value, RMS detector for AV value

802.11n(20MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	V	2411.9	70.7	30.7	101.4	Fundamental	/	PK
	V	3200	48.5	-0.6	47.9	54(note3)	6.1	PK
	V	2390	37.1	32.2	69.3	74	4.7	PK
	V	2390	17.5	32.2	49.7	54	4.3	AV
	V	4824	46.0	2.6	48.6	54(note3)	5.4	PK
	V	7236	51.2	8.9	60.1	74	13.9	PK
	V	7239	38.6	8.9	47.5	54	6.5	AV
	H	24000	59.6	-8.9	50.7	54	3.3	PK
6	V	2437	69.7	31.2	100.9	Fundamental	/	PK
	V	3200	47.3	-0.6	46.7	54(note3)	7.3	PK
	V	4876	43.7	2.8	46.5	54(note3)	7.5	PK
	V	7298.5	53.1	8.8	61.9	74	12.1	PK
	V	7298.5	38.3	8.8	47.1	54	6.9	AV
	H	24000	59.6	-8.9	50.7	54	3.3	PK
11	V	2462.3	70.6	30.9	101.5	Fundamental	/	PK
	V	3200	44.2	-0.6	43.6	54(note3)	10.4	PK
	V	2483.5	34.5	30.2	64.7	74	9.3	PK
	V	2483.5	16.3	30.2	46.5	54	7.5	AV
	V	4927	45.7	3.0	48.7	54(note3)	5.3	PK
	V	7386	53.4	9.0	62.4	74	11.6	PK
	V	7392	38.7	9.0	47.7	54	6.3	AV
	H	24000	59.7	-8.9	50.8	54	3.2	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Remark: RBW 1MHz VBW 3MHz peak detector for PK value, RMS detector for AV value

802.11n(40MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dB _{BuV/m})	Factor (dB)	Measure Level (dB _{BuV/m})	Limit (dB _{BuV/m})	Margin (dB)	Detector
3	V	2422.1	70.0	30.7	100.7	Fundamental	/	PK
	V	3200	42.6	-0.6	42.0	54(note3)	12.0	PK
	V	2390	36.0	32.2	68.2	74	5.8	PK
	V	2390	16.4	32.2	48.6	54	5.4	AV
	V	4844.1	43.5	2.6	46.1	54(note3)	7.9	PK
	V	7266	51.8	8.9	60.7	74	13.3	PK
	V	7266	37.3	8.9	46.2	54	7.8	AV
	H	24000	59.8	-8.9	50.9	54	3.1	PK
6	V	2437	69.8	31.2	101.0	Fundamental	/	PK
	V	3200	43.1	-0.6	42.5	54(note3)	11.5	PK
	V	4876	43.9	2.8	46.7	54(note3)	7.3	PK
	V	7298.5	52.8	8.8	61.6	74	12.4	PK
	V	7298.5	36.1	8.8	44.9	54	9.1	AV
	H	24000	59.3	-8.9	50.4	54	3.6	PK
9	V	2452.1	69.9	30.9	100.8	Fundamental	/	PK
	V	3200	40.9	-0.6	40.3	54(note3)	13.7	PK
	V	2483.5	35.5	30.2	65.7	74	8.3	PK
	V	2483.5	12.7	30.2	42.9	54	11.1	AV
	V	4904	41.9	3.0	44.9	54(note3)	9.1	PK
	V	7356.1	51.8	9.0	60.8	74	13.2	PK
	V	7356.2	38.3	9.0	47.3	54	6.7	AV
	H	24000	59.6	-8.9	50.7	54	3.3	PK

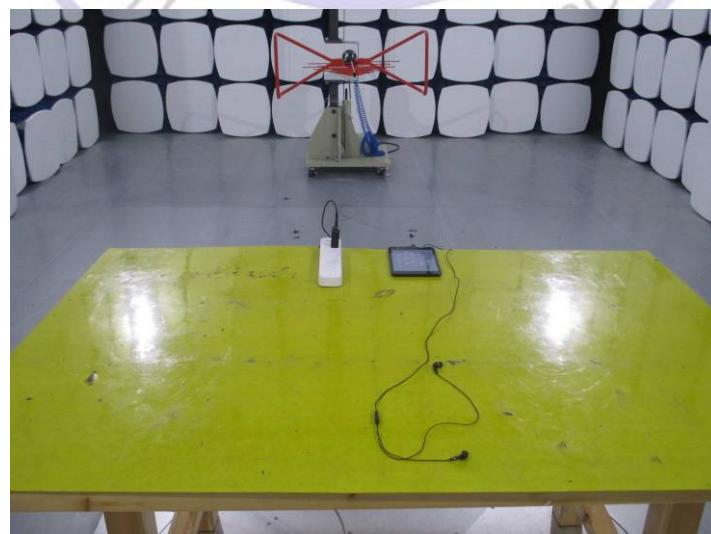
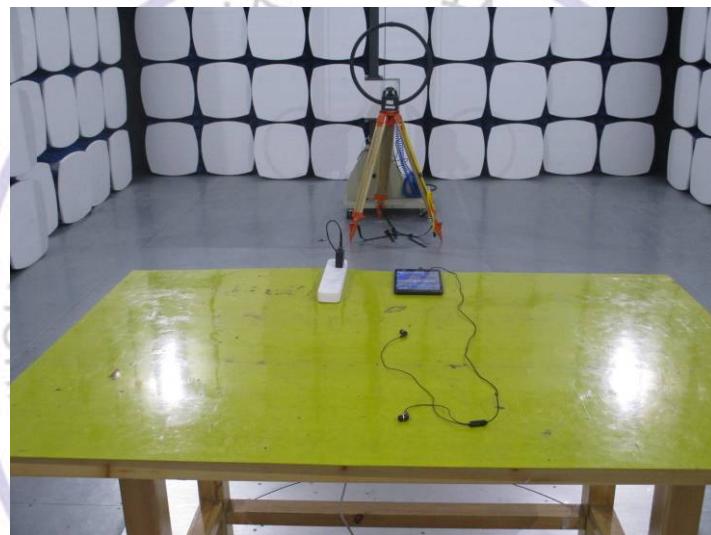
Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Remark: RBW 1MHz VBW 3MHz peak detector for PK value, RMS detector for AV value

4. Test Setup Photos of the EUT





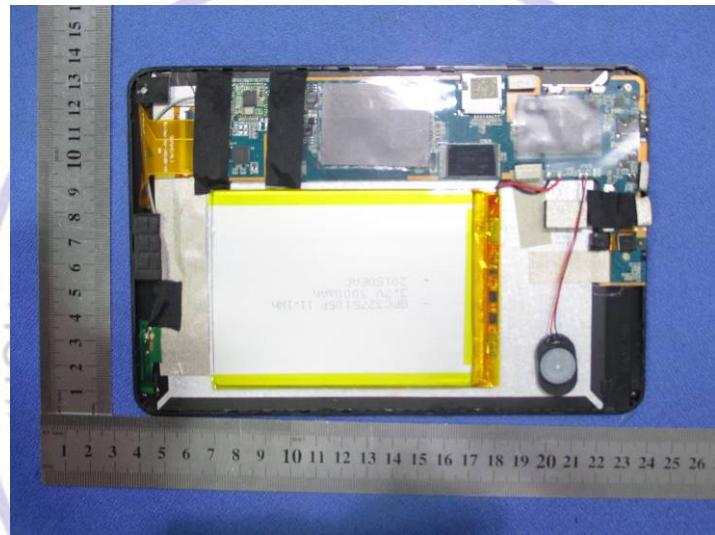
5. External and Internal Photos of the EUT

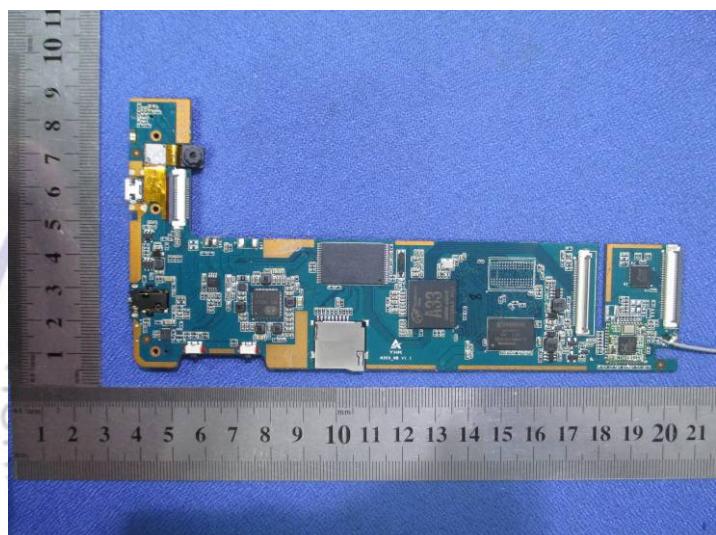
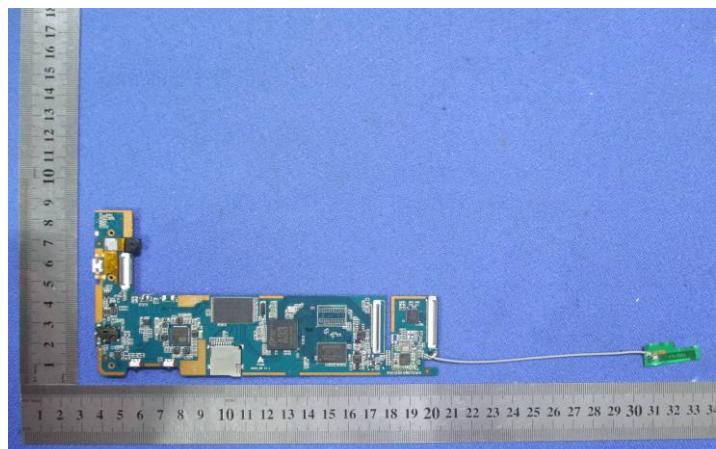
External Photos of EUT

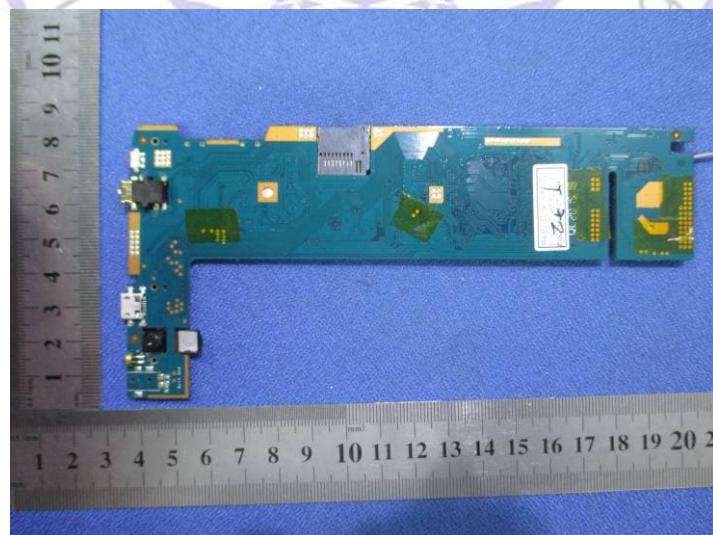


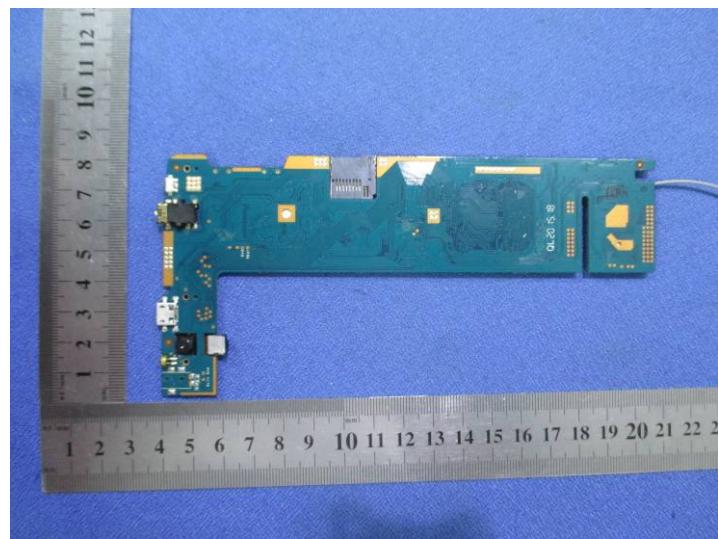




Internal Photos of EUT







.....End of Report.....

