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## FCC PART 15 SUBPART C TEST REPORT

### Part 15.247

**Report Reference No.** ..... : **CTL1609133500-WF03**

Compiled by

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Tracy Qi

Date of issue..... : Oct. 17, 2016

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

Address ..... : Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,  
Nanshan District, Shenzhen, China 518055

**Applicant's name** ..... : **Simbans Limited**

Address ..... : 806, 8th Floor, Tai Tak Industrial Building, 2-12 Kwai Fat Road,  
Kwai Chung, 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** ..... : 10.1 Inch Android Tablet

**FCC ID** ..... : **2AHY3-TANGO**

Trade Mark ..... : Simbans

Model/Type reference ..... : Tango, Funlet, FunDo

Modulation ..... : 802.11b DSSS, 802.11g/n: OFDM

Work Frequency Range ..... : 802.11b/g/n(20MHz): 2412~2462MHz  
802.11n(40MHz): 2422~2452MHz

Antenna Type ..... : Integral Antenna

Antenna Gain ..... : 2dBi

Result ..... : **Positive**

**TEST REPORT**

<b>Test Report No. :</b>	<b>CTL1609133500-WF03</b>	Oct. 17, 2016
		Date of issue

Equipment under Test : 10.1 Inch Android Tablet

Model /Type : Tango, Funlet, FunDo

**Applicant** : **Simbans Limited**

Address : 806, 8th Floor, Tai Tak Industrial Building, 2-12 Kwai Fat Road, Kwai Chung, Hong Kong

**Manufacturer** : **Shenzhen Iproda Technology CO.,LTD.**

Address : 4F-5F, C Building, Gongming Tang Wei Village Wanfeng Industrial Zone, Guangming New District , Shenzhen

**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 C63.10-2013:** American National Standard for Testing Unlicensed Wireless Devices.

**ANSI C63.4-2014**

[\*\*KDB Publication No. 558074 D01 v03r03 Guidance on Measurements for Digital Transmission Systems\*\*](#)



## 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample	:	Sept. 13, 2016
	:	
Testing commenced on	:	Sept. 13, 2016
	:	
Testing concluded on	:	Oct.19, 2016

### 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 checked="" type="radio"/> Other (specified in blank below)	

DC 3.7 V 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. Description of the Equipment under Test (EUT)

Product Name:	10.1 Inch Android Tablet
Model/Type reference:	Tango
Power supply:	DC 3.7V from battery, charged by AC adapter
<b>WIFI</b>	
Supported type:	802.11b/802.11g/802.11n(HT20) /802.11n(HT40)
Modulation:	802.11b: DSSS 802.11g/802.11n(HT20)/802.11n(HT40): OFDM
Operation frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(HT20): 11 802.11n(HT40):7

Channel separation:	5MHz
Antenna type:	Internal Antenna
Antenna gain:	2dBi
<b>Bluetooth 3.0</b>	
Modulation:	GFSK,8DPSK,π/4DQPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	Internal Antenna
Antenna gain:	2dBi
<b>Bluetooth 4.0LE</b>	
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	Internal Antenna
Antenna gain:	2dBi

Note: For more detailed features description, please refer to the manufacturer's specifications or the User's Manual .  
This report is only for WIFI.

## 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 802.11b/g/n(HT40) with highest data rate are chosen for full testing.
3. Test Mode:

Test Mode(TM)	Description	Remark
1	Transmitting	802.11 b 2412MHz, 2437MHz, 2462MHz
2	Transmitting	802.11 g 2412MHz, 2437MHz, 2462MHz
3	Transmitting	802.11 n HT20 2412MHz, 2437MHz, 2462MHz
4	Transmitting	802.11 n HT40 2422MHz, 2437MHz, 2452MHz

## 2.5. EUT configuration

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

- supplied by the manufacturer

- supplied by the lab

AC adapter(FCC DOC approved)

Manufacturer: Shenzhen Eagletron Electronic Co.,LTD.

Model No.: DYED05020U1EU

## 2.6. NOTE

- The EUT is 10.1 Inch Android Tablet ,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)	CTL1609133500-WF03
Bluetooth 3.0	FCC Part 15 Subpart C (Section15.249)	CTL1609133500-WF01
Bluetooth 4.0LE	FCC Part 15 Subpart C (Section15.249)	CTL1609133500-WF02

- 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)	✓	—	—	—
		—	—	—
		—	—	—

- The EUT incorporates a SISO function, Physically,the EUT provides one completed transmitter and one 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: **2AHY3-TANGO** filing to comply with of the FCC part15C 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 C63.7, ANSI C63.10 (2013) 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:

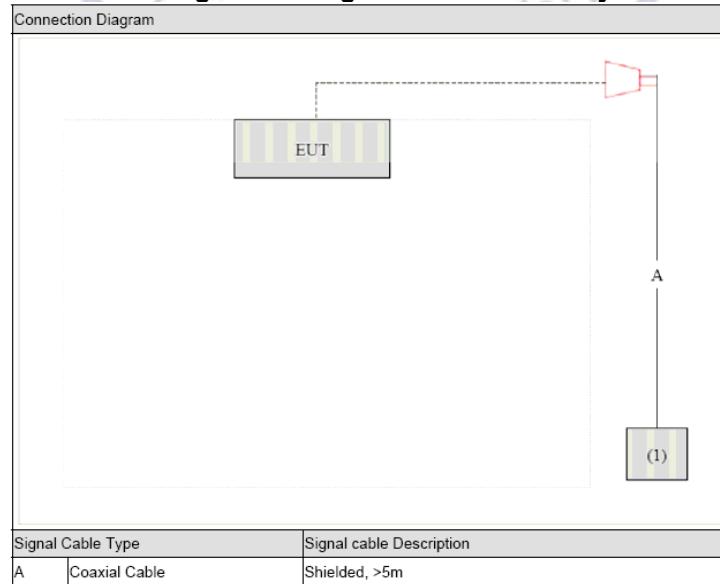
Temperature: 15-35 °C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

#### 3.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



### 3.5. Duty Cycle

Operated Mode for Worst Duty Cycle		
<input type="checkbox"/> Operated normally mode for worst duty cycle <input checked="" type="checkbox"/> Operated test mode for worst duty cycle		
Mode	Duty Cycle (%)	Duty Factor (dB)
11b	100	0
11g	100	0
11n HT20	100	0
11n HT40	100	0

### 3.6. 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.

### 3.7. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
ULTRA-ROADBAND ANTENNA	Sunol Sciences Corp.	JB1	A061713	2016/06/02	2017/06/01
EMI Test Receiver	R&S	ESCI	103710	2016/06/02	2017/06/01
Spectrum Analyzer	Agilent	E4407B	MY41440676	2016/05/21	2017/05/20
Controller	EM Electronics	Controller EM 1000	N/A	2016/05/21	2017/05/20
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2016/05/19	2017/05/18
Active Loop Antenna	Daze	ZN30900A	N/A	2016/05/19	2017/05/18
LISN	R&S	ENV216	3560.6550.12	2016/06/02	2017/06/01
LISN	R&S	ESH2-Z5	860014/010	2016/06/02	2017/06/01
ISN	FCC	F-071115-1057-1-09	11229	2016/05/19	2017/05/18
Amplifier	Agilent	8349B	3008A02306	2016/05/19	2017/05/18
Amplifier	Agilent	8447D	2944A10176	2016/05/19	2017/05/18
Transient Limiter	SCHWARZCECK	VTSD 9561F	9666	2016/06/02	2017/06/01
Radio Communication Tester	R&S	CMU200	115419	2016/05/22	2017/05/21
Temperature/Humidity Meter	Gangxing	CTH-608	02	2016/05/20	2017/05/19
SIGNAL GENERATOR	Agilent	E4421B	US40051744	2016/05/20	2017/05/19
Power Meter	Agilent	U2531A	TW53323507	2016/05/21	2017/05/20
Power Sensor	Agilent	U2021XA	MY5365004	2016/05/21	2017/05/20
Climate Chamber	ESPEC	EL-10KA	A20120523	2016/05/20	2017/05/19
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	N/A	2016/05/20	2017/05/19
High-Pass Filter	K&L	41H10-1375/U12750-O/O	N/A	2016/05/20	2017/05/19
RF Cable	HUBER+SUHNER	RG214	N/A	2016/05/20	2017/05/19

### 3.8. Summary of Test Result

FCC PART 15		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	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.

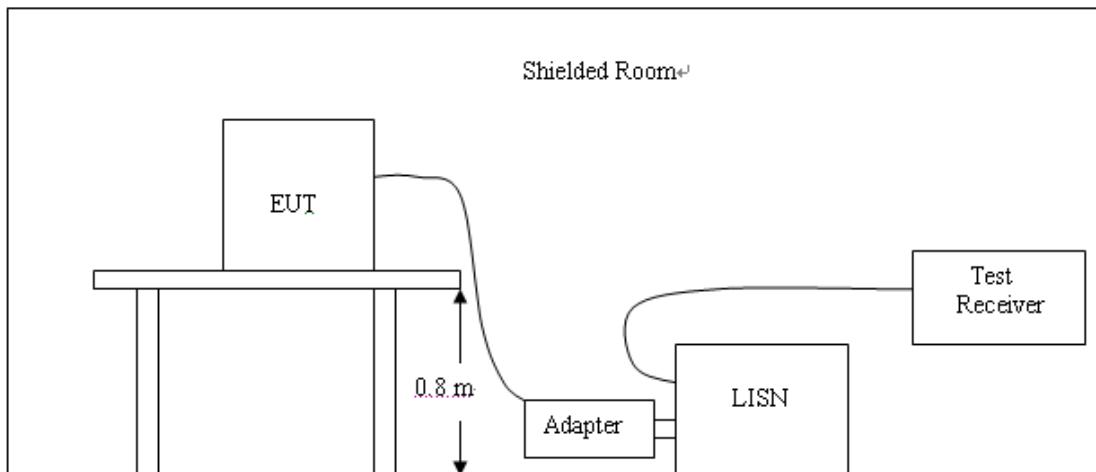
Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	TX MODE	11 Mbps	1
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
	11b/DSSS	11 Mbps	1/6/11
Radiated Emission 30MHz~1GHz	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
	11b/DSSS	11 Mbps	1/6/11
Radiated Emission 1GHz~10th Harmonic	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
	11b/DSSS	11 Mbps	1/11
Band Edge Compliance of RF Emission	11g/OFDM	54 Mbps	1/11
	11n(20MHz)/OFDM	65Mbps	1/11
	11n(40MHz)/OFDM	150Mbps	3/9

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

## 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 $\mu$ 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

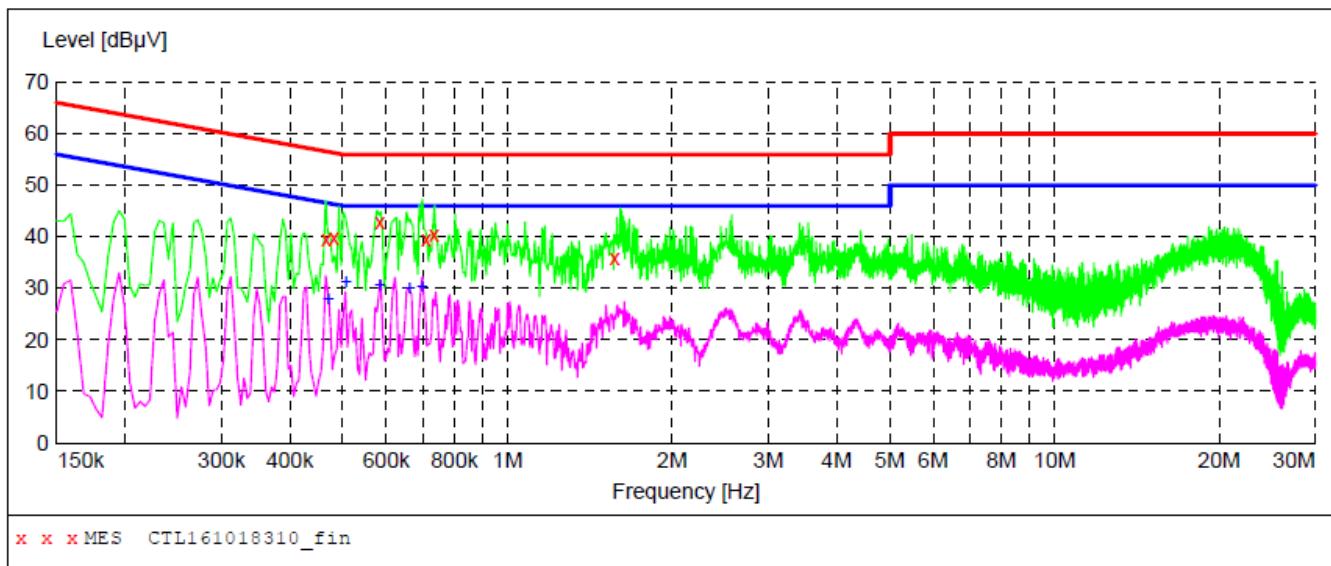
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

1. Please follow the guidelines in ANSI C63.10-2013.
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: "CTL161018310\_fin"**

10/18/2016 10:05AM

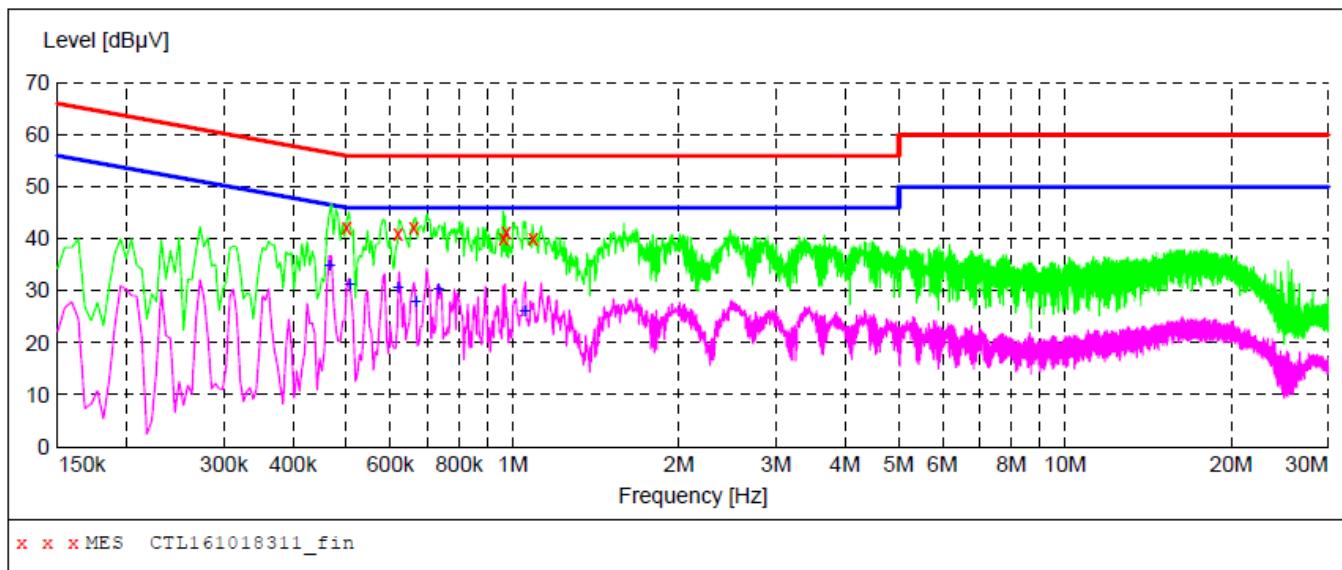
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.466000	39.40	10.2	57	17.2	QP	N	GND
0.482000	39.90	10.2	56	16.4	QP	N	GND
0.584000	42.70	10.2	56	13.3	QP	N	GND
0.710000	39.60	10.2	56	16.4	QP	N	GND
0.734000	40.40	10.2	56	15.6	QP	N	GND
1.568000	35.90	10.3	56	20.1	QP	N	GND

**MEASUREMENT RESULT: "CTL161018310\_fin2"**

10/18/2016 10:05AM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.470000	27.90	10.2	47	18.6	AV	N	GND
0.506000	31.30	10.2	46	14.7	AV	N	GND
0.584000	30.70	10.2	46	15.3	AV	N	GND
0.662000	30.00	10.2	46	16.0	AV	N	GND
0.698000	30.50	10.2	46	15.5	AV	N	GND

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



**MEASUREMENT RESULT: "CTL161018311\_fin"**

10/18/2016 10:10AM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.500000	42.20	10.2	56	13.8	QP	L1	GND
0.620000	41.10	10.2	56	14.9	QP	L1	GND
0.662000	42.20	10.2	56	13.8	QP	L1	GND
0.962000	40.10	10.3	56	15.9	QP	L1	GND
0.974000	41.30	10.3	56	14.7	QP	L1	GND
1.088000	40.10	10.3	56	15.9	QP	L1	GND

**MEASUREMENT RESULT: "CTL161018311\_fin2"**

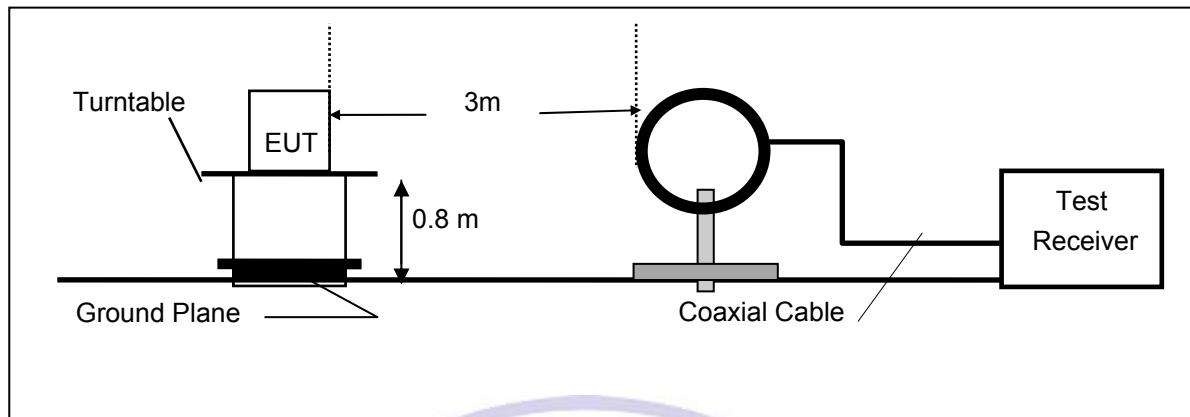
10/18/2016 10:10AM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.466000	34.90	10.2	47	11.7	AV	L1	GND
0.506000	31.50	10.2	46	14.5	AV	L1	GND
0.620000	30.80	10.2	46	15.2	AV	L1	GND
0.668000	27.90	10.2	46	18.1	AV	L1	GND
0.734000	30.30	10.2	46	15.7	AV	L1	GND
1.052000	26.30	10.3	46	19.7	AV	L1	GND

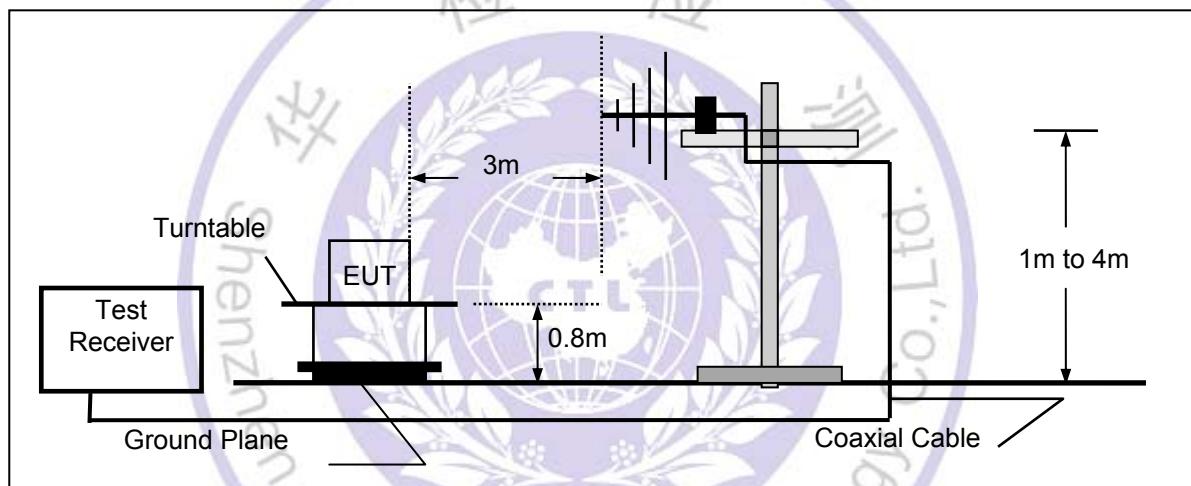
## 4.2. Radiated Emission and Bandedge Test

### TEST CONFIGURATION

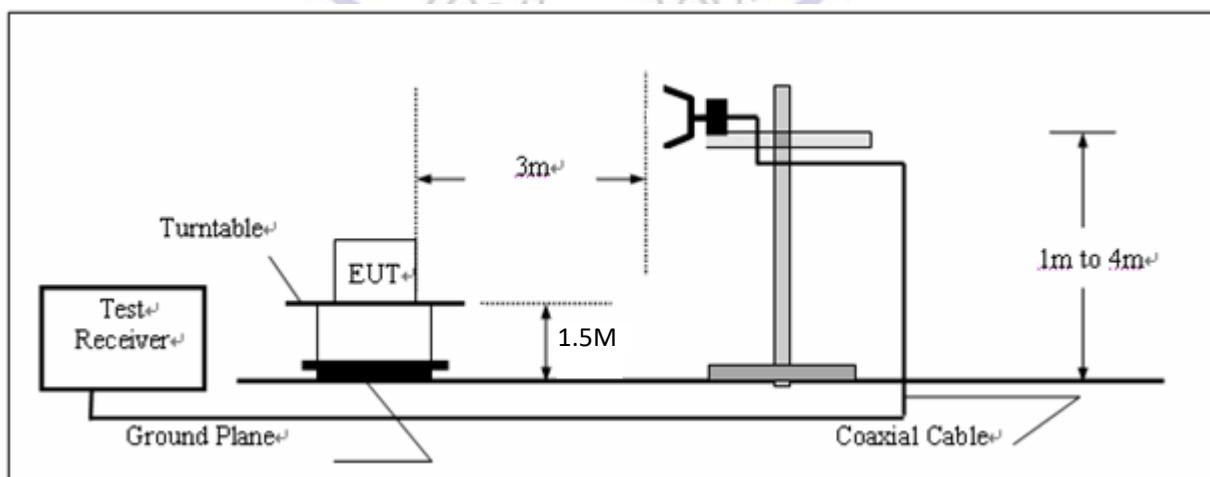
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(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 EUT is placed on a turntable, which is 0.8m above ground plane below 1GHz and 1.5m above ground plane above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until the measurements for all frequencies are complete.
8. Based on the Frequency Generator in the device include 16MHz.The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

**Note:** 1.Three axes are chosen for pretest, the Y axis is the worst mode for final test.  
 2.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 $\mu$ V/m)	Radiated ( $\mu$ 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****9KHz-30MHz:**

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note: The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

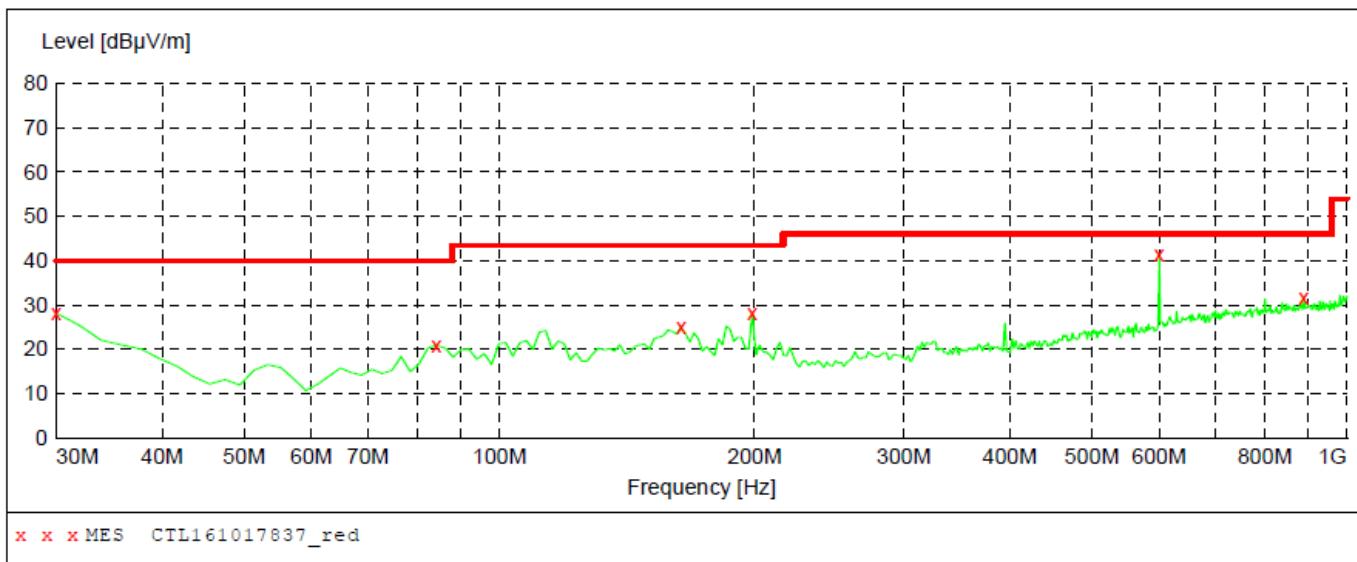
Dstance extrapolation factor= 40 log (specific distance/ test distance) (dB);  
Limit line= specific limits (dBuV) + distance extrapolation factor.

**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.

***SWEET 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 JBL

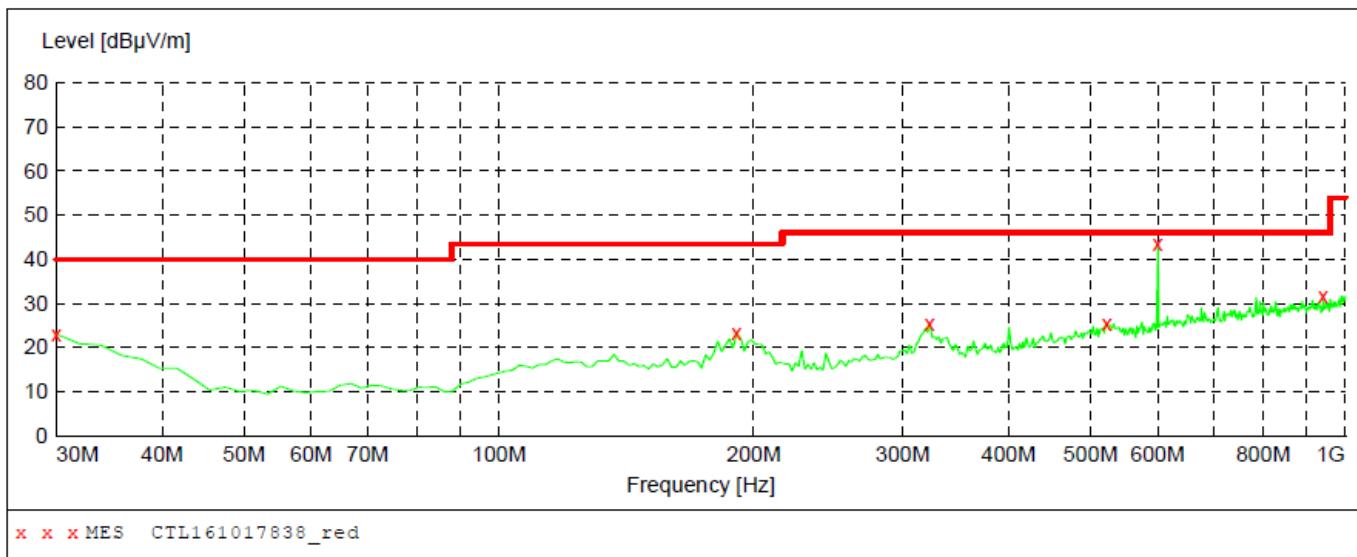
***MEASUREMENT RESULT: "CTL161017837\_red"***

10/18/2016 9:45AM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	28.10	20.8	40.0	11.9	---	0.0	0.00	VERTICAL
84.320000	20.90	8.8	40.0	19.1	---	0.0	0.00	VERTICAL
163.860000	25.10	13.6	43.5	18.4	---	0.0	0.00	VERTICAL
198.780000	28.30	13.9	43.5	15.2	---	0.0	0.00	VERTICAL
600.360000	41.40	21.8	46.0	4.6	---	0.0	0.00	VERTICAL
889.420000	31.80	25.8	46.0	14.2	---	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	Time	Bandw.
			300.0 ms	120 kHz
				JB1

***MEASUREMENT RESULT: "CTL161017838\_red"***

10/18/2016 9:45AM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. ---	Height cm	Azimuth deg	Polarization
30.000000	23.00	20.8	40.0	17.0	---	0.0	0.00	HORIZONTAL
191.020000	23.30	13.2	43.5	20.2	---	0.0	0.00	HORIZONTAL
322.940000	25.40	15.9	46.0	20.6	---	0.0	0.00	HORIZONTAL
522.760000	25.40	20.3	46.0	20.6	---	0.0	0.00	HORIZONTAL
600.360000	43.40	21.8	46.0	2.6	---	0.0	0.00	HORIZONTAL
941.800000	31.80	26.4	46.0	14.2	---	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	2412	73.3	30.8	104.1	Fundamental	/	PK
	V	3200	12.6	31.1	43.7	54(note3)	10.3	PK
	V	2390	37.6	32.2	69.8	74	4.2	PK
	V	2390	16.2	32.2	48.4	54	5.6	AV
	V	2400	38.6	32.1	70.7	74	3.3	PK
	V	2400	17.7	32.1	49.8	54	4.2	AV
	V	4824	9.5	42.6	52.1	54(note3)	1.9	PK
	V	7236	19.3	46.5	65.8	74	8.2	PK
	V	7236	0.1	46.5	46.6	54	7.4	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK
6	V	2437	72.6	31.2	103.8	Fundamental	/	PK
	V	3200	11.4	31.1	42.5	54(note3)	11.5	PK
	V	4876	19.1	32.8	51.9	54(note3)	2.1	PK
	V	7311	13.9	46.8	60.7	74	13.3	PK
	V	7311	-1.4	46.1	44.7	54	9.3	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK
11	V	2462.3	71.9	30.9	102.8	Fundamental	/	PK
	V	3200	10.6	31.1	41.7	54(note3)	12.3	PK
	V	2483.5	32.7	30.2	62.9	74	11.1	PK
	V	2483.5	15.6	30.2	45.8	54	8.2	AV
	V	4927	19.1	32.5	51.6	54(note3)	2.4	PK
	V	7386	20.8	46.3	67.1	74	6.9	PK
	V	7386	-1.5	46.3	44.8	54	9.2	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK

- Note: 1. Measure Level = Reading Level + Factor. H and V all have been tested, only worse case is reported  
 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	71.6	30.8	102.4	Fundamental	/	PK
	V	3200	11.7	31.1	42.8	54(note3)	11.2	PK
	V	2390	36.9	32.2	69.1	74	4.9	PK
	V	2390	18.0	32.2	50.2	54	3.8	AV
	V	2400	38.5	32.1	70.6	74	3.4	PK
	V	2400	19.7	32.1	51.8	54	2.2	AV
	V	4824	9.6	42.6	52.2	54(note3)	1.8	PK
	V	7236	19.1	46.5	65.6	74	8.4	PK
	V	7236	-0.4	46.5	46.1	54	7.9	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK
6	V	2437	70.7	31.2	101.9	Fundamental	/	PK
	V	3200	12.2	31.1	43.3	54(note3)	10.7	PK
	V	4876	19.1	32.8	51.9	54(note3)	2.1	PK
	V	7311	21.0	46.8	67.8	74	6.2	PK
	V	7311	3.7	46.1	49.8	54	4.2	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK
11	V	2462.3	71.2	30.9	102.1	Fundamental	/	PK
	V	3200	12.7	31.1	43.8	54(note3)	10.2	PK
	V	2483.5	33.2	30.2	63.4	74	10.6	PK
	V	2483.5	13.7	30.2	43.9	54	10.1	AV
	V	4927	18.3	32.5	50.8	54(note3)	3.2	PK
	V	7386	21.1	46.3	67.4	74	6.6	PK
	V	7386	2.8	46.3	49.1	54	4.9	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK

- Note: 1. Measure Level = Reading Level + Factor. H and V all have been tested, only worse case is reported  
 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	70.6	30.8	101.4	Fundamental	/	PK
	V	3200	15.1	31.1	46.2	54(note3)	7.8	PK
	V	2390	37.9	32.2	70.1	74	3.9	PK
	V	2390	15.6	32.2	47.8	54	6.2	AV
	V	2400	38.7	32.1	70.8	74	3.2	PK
	V	2400	18.3	32.1	50.4	54	3.6	AV
	V	4824	9.3	42.6	51.9	54(note3)	2.1	PK
	V	7236	21.6	46.5	68.1	74	5.9	PK
	V	7236	2.8	46.5	49.3	54	4.7	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK
6	V	2437	71.6	31.2	102.8	Fundamental	/	PK
	V	3200	12.6	31.1	43.7	54(note3)	10.3	PK
	V	4876	17.0	32.8	49.8	54(note3)	4.2	PK
	V	7311	22.3	46.8	69.1	74	4.9	PK
	V	7311	2.2	46.1	48.3	54	5.7	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK
11	V	2462.3	70.8	30.9	101.7	Fundamental	/	PK
	V	3200	13.5	31.1	44.6	54(note3)	9.4	PK
	V	2483.5	33.9	30.2	64.1	74	9.9	PK
	V	2483.5	13.6	30.2	43.8	54	10.2	AV
	V	4927	19.3	32.5	51.8	54(note3)	2.2	PK
	V	7386	23.8	46.3	70.1	74	3.9	PK
	V	7386	3.3	46.3	49.6	54	4.4	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK

- Note: 1. Measure Level = Reading Level + Factor. H and V all have been tested, only worse case is reported  
 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)

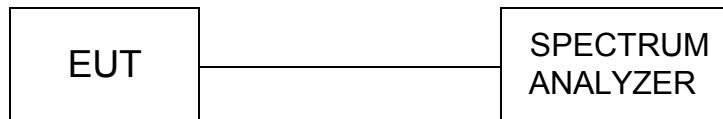
CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	V	2422	69.6	30.8	100.4	Fundamental	/	PK
	V	3200	11.6	31.1	42.7	54(note3)	11.3	PK
	V	2390	36.3	32.2	68.5	74	5.5	PK
	V	2390	14.3	32.2	46.5	54	7.5	AV
	V	2400	37.0	32.1	69.1	74	4.9	PK
	V	2400	16.7	32.1	48.8	54	5.2	AV
	V	4844	7.5	42.9	50.4	54(note3)	3.6	PK
	V	7266	21.3	46.8	68.1	74	5.9	PK
	V	7266	1.8	46.8	48.6	54	5.4	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK
6	V	2437	69.5	31.2	100.7	Fundamental	/	PK
	V	3200	14.1	31.1	45.2	54(note3)	8.8	PK
	V	4876	16.6	32.8	49.4	54(note3)	4.6	PK
	V	7311	22.0	46.8	68.8	74	5.2	PK
	V	7311	2.6	46.1	48.7	54	5.3	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK
9	V	2452	70.2	30.9	101.1	Fundamental	/	PK
	V	3200	9.5	31.1	40.6	54(note3)	13.4	PK
	V	2483.5	31.5	30.2	61.7	74	12.3	PK
	V	2483.5	12.0	30.2	42.2	54	11.8	AV
	V	4967	19.0	32.5	51.5	54(note3)	2.5	PK
	V	7356	22.0	46.1	68.1	74	5.9	PK
	V	7356	0.8	46.1	46.9	54	7.1	AV
	H	24000	11.7	38.9	50.6	54	3.4	PK

- Note: 1. Measure Level = Reading Level + Factor. H and V all have been tested, only worse case is reported  
 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

### 4.3. 6dB Bandwidth Measurement

#### TEST CONFIGURATION



#### TEST PROCEDURE

1. The testing follows FCC KDB Publication No. 558074 D01 v03r03 (Measurement Guidelines of DTS).
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.
4. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

#### LIMIT

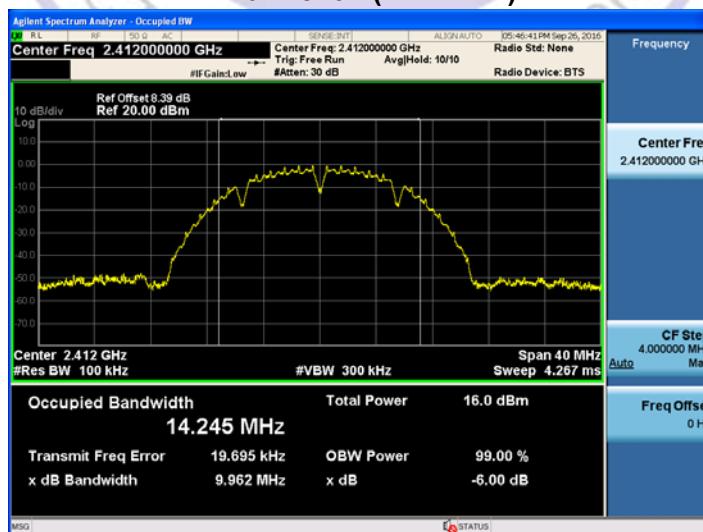
For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

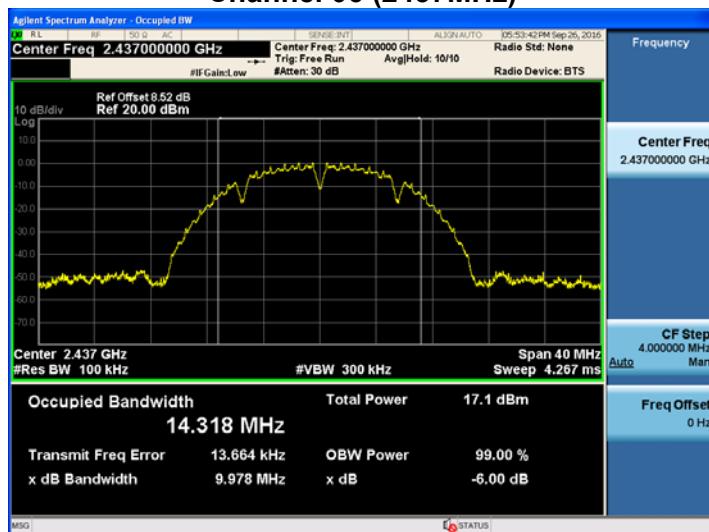
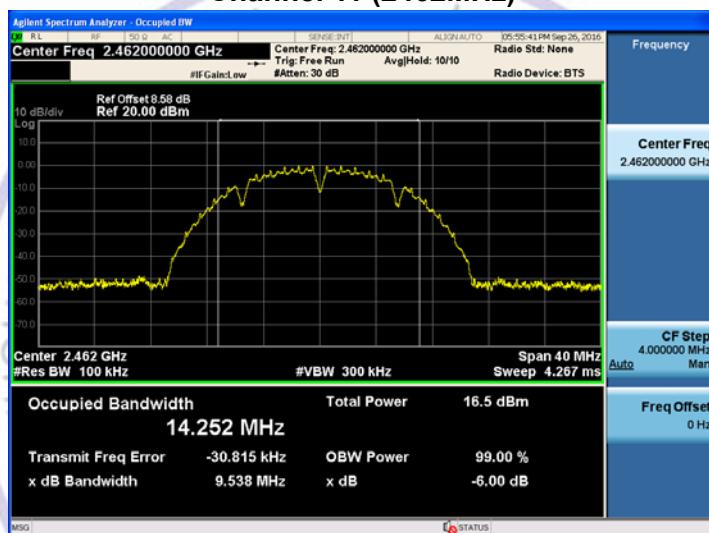
#### TEST RESULTS

Product	:	10.1 Inch Android Tablet
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	9962	500	Pass
06	2437	9978	500	Pass
11	2462	9538	500	Pass

Channel 01 (2412MHz)

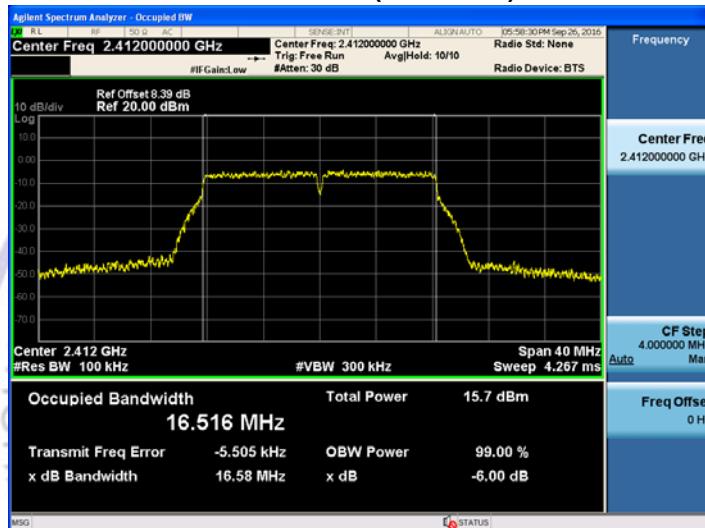


**Channel 06 (2437MHz)****Channel 11 (2462MHz)**

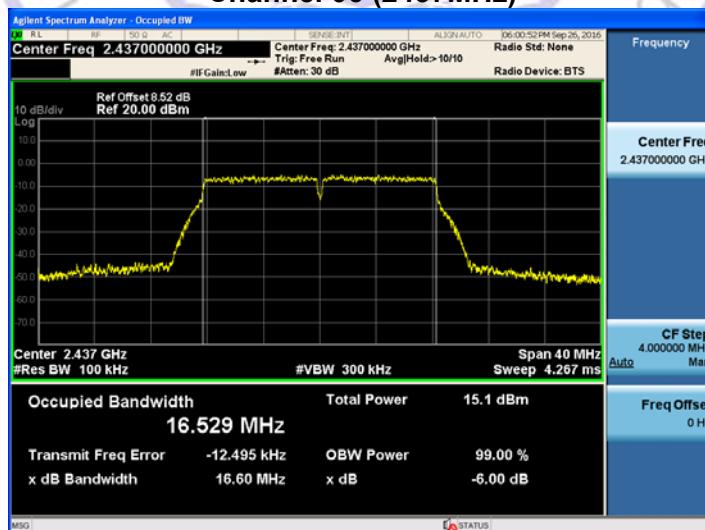
Product	:	10.1 Inch Android Tablet
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16580	500	Pass
06	2437	16600	500	Pass
11	2462	16550	500	Pass

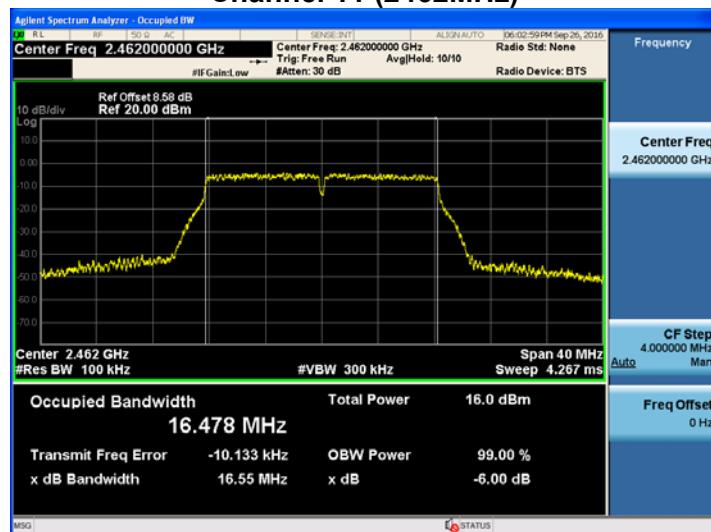
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



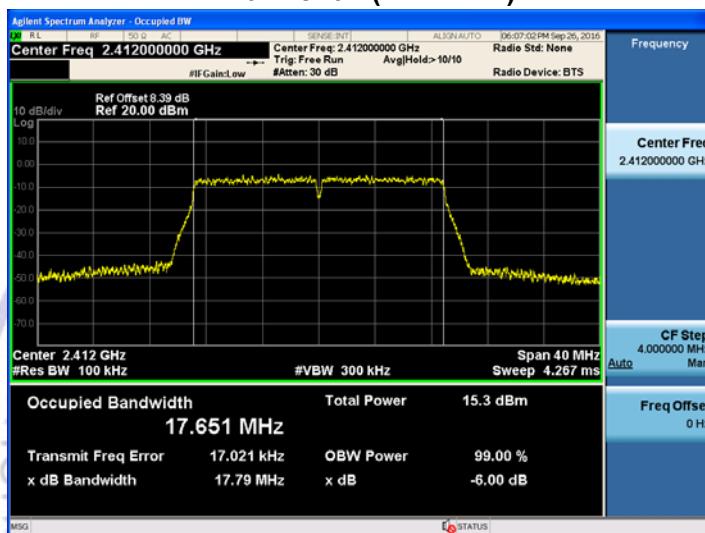
## Channel 11 (2462MHz)



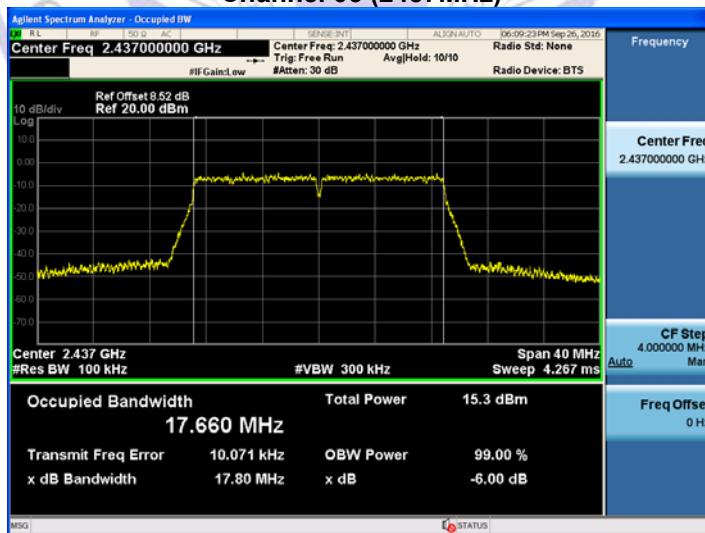
Product	:	10.1 Inch Android Tablet
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17790	500	Pass
06	2437	17800	500	Pass
11	2462	17810	500	Pass

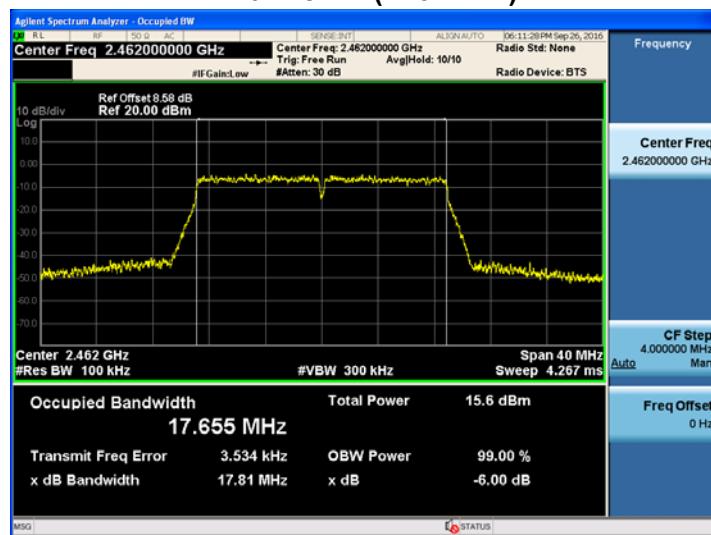
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



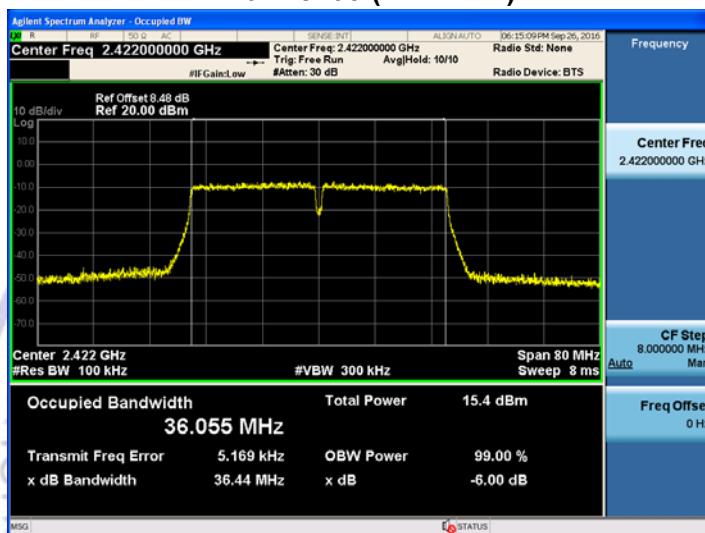
## Channel 11 (2462MHz)



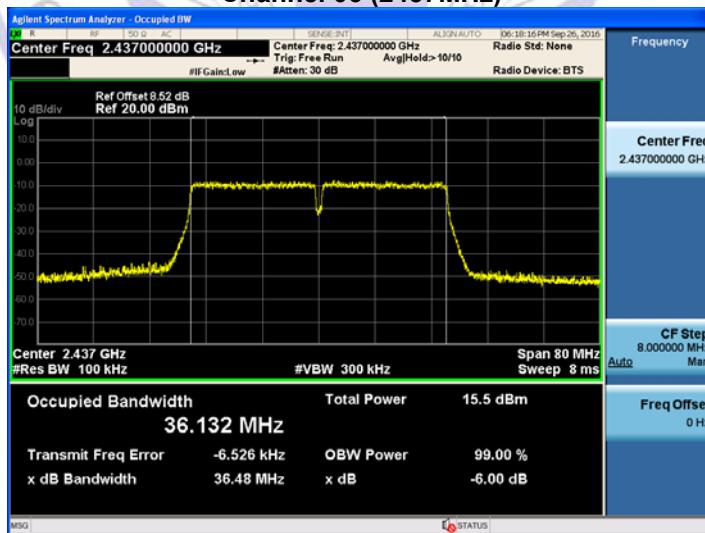
Product	:	10.1 Inch Android Tablet
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36440	500	Pass
06	2437	36480	500	Pass
09	2452	36430	500	Pass

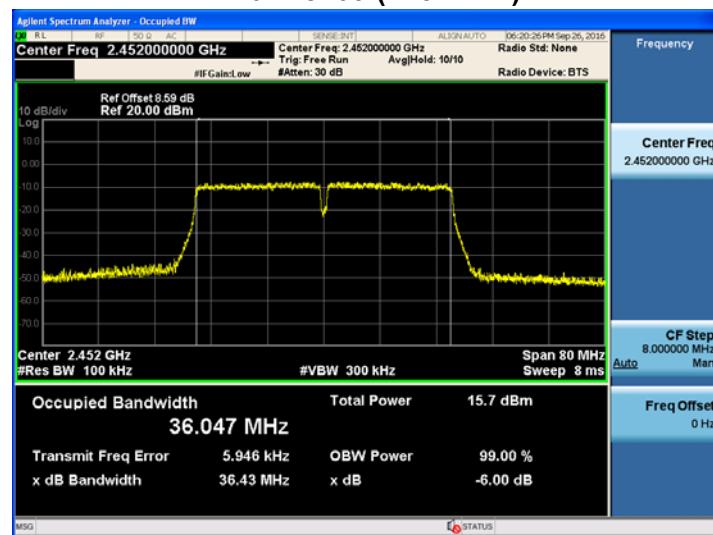
### Channel 03 (2422MHz)



### Channel 06 (2437MHz)

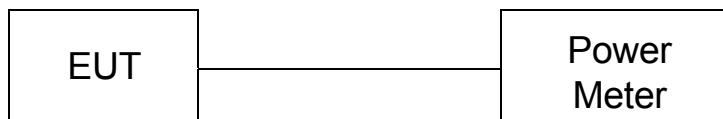


## Channel 09 (2452MHz)



## 4.4. Maximum Peak Output Power

### TEST CONFIGURATION



### TEST PROCEDURE

According to C63.10 -2013 and KDB558074 D01 v03r03, The EUT was directly connected to the power meter / spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

Use the wideband power meter to test peak power and record the result.

### LIMIT

The Peak Output Power Measurement limits are 30dBm.

### TEST RESULTS

Product	:	10.1 Inch Android Tablet
Test Item	:	Power Output
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	9.57	30.00	Pass
6	2437	9.44	30.00	Pass
11	2462	9.50	30.00	Pass

Product	:	10.1 Inch Android Tablet
Test Item	:	Power Output
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	9.37	30.00	Pass
6	2437	9.19	30.00	Pass
11	2462	9.14	30.00	Pass

Product	:	10.1 Inch Android Tablet
Test Item	:	Power Output
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
1	2412	9.02	30.00	Pass
6	2437	8.95	30.00	Pass
11	2462	8.91	30.00	Pass

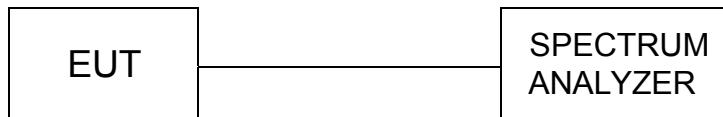
Product	:	10.1 Inch Android Tablet
Test Item	:	Power Output
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
3	2422	8.87	30.00	Pass
6	2437	8.90	30.00	Pass
9	2452	8.91	30.00	Pass

**Note:** The test results including the cable loss.

## 4.5. Power Spectral Density Measurement

### TEST CONFIGURATION



### TEST PROCEDURE

The EUT was tested according to KDB558074 D01 v03r03 for compliance to FCC 47CFR 15.247 and requirements.

Set RBW= 3 kHz, VBW $\geq$ 10KHz, SPAN to 1.5 times greater than the EBW.,

### LIMIT

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### TEST RESULTS

Product	:	10.1 Inch Android Tablet
Test Item	:	Power Spectral Density
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
01	2412	-19.112	8	Pass
06	2437	-18.030	8	Pass
11	2462	-18.827	8	Pass

Channel 01 (2412MHz)

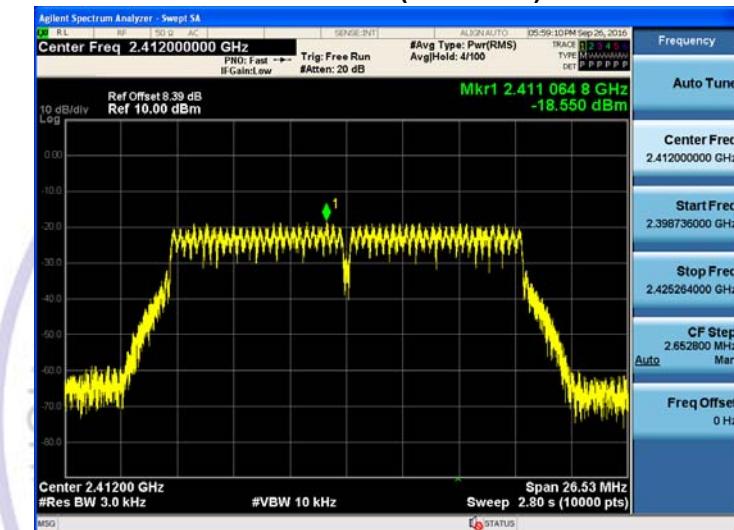


**Channel 06 (2437MHz)****Channel 11 (2462MHz)**

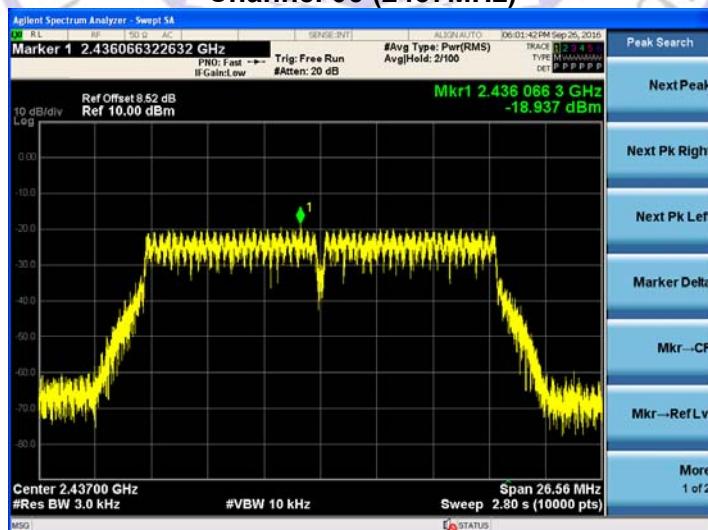
Product	:	10.1 Inch Android Tablet
Test Item	:	Power Spectral Density
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
01	2412	-18.550	8	Pass
06	2437	-18.937	8	Pass
11	2462	-18.343	8	Pass

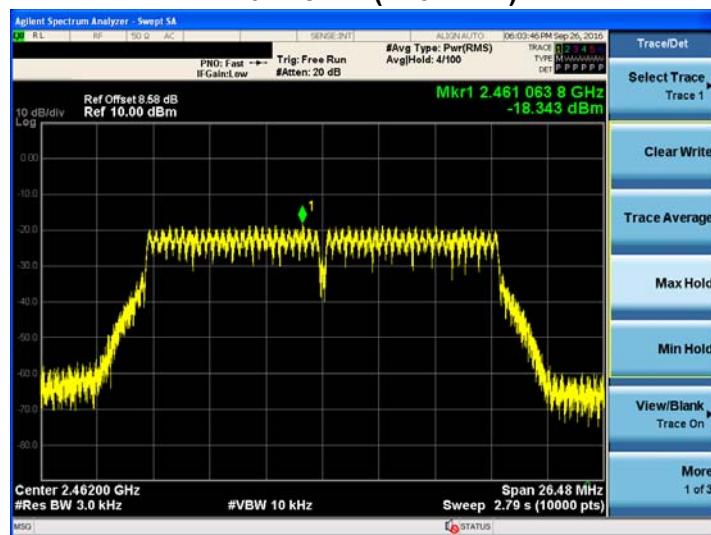
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



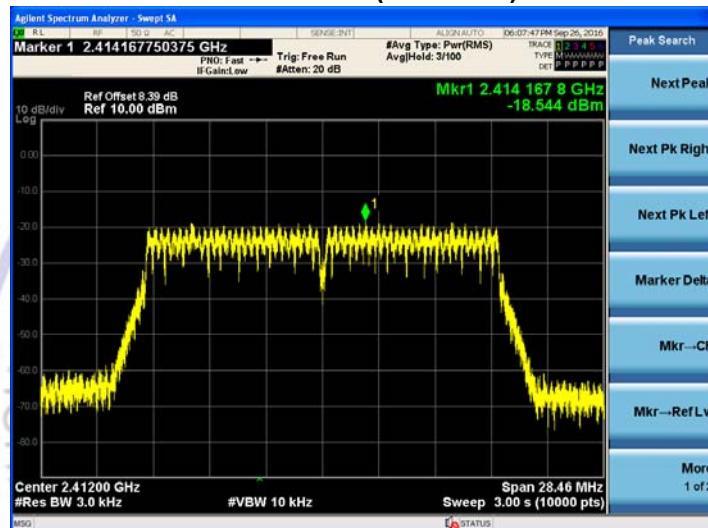
## Channel 11 (2462MHz)



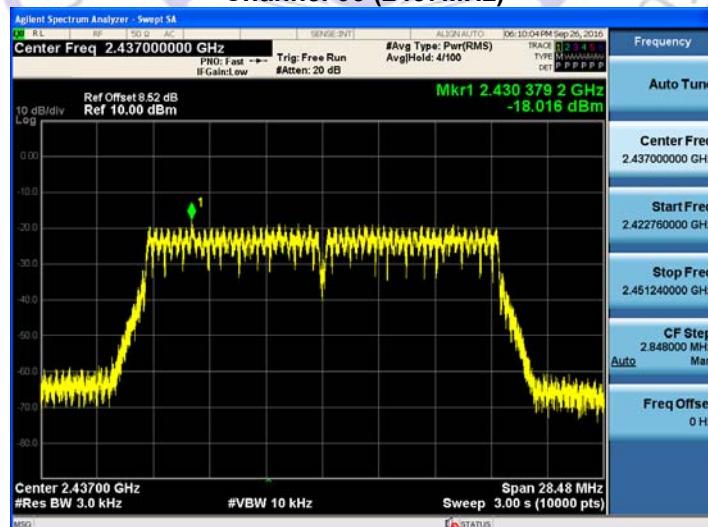
Product	:	10.1 Inch Android Tablet
Test Item	:	Power Spectral Density
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
01	2412	-18.544	8	Pass
06	2437	-18.016	8	Pass
11	2462	-17.949	8	Pass

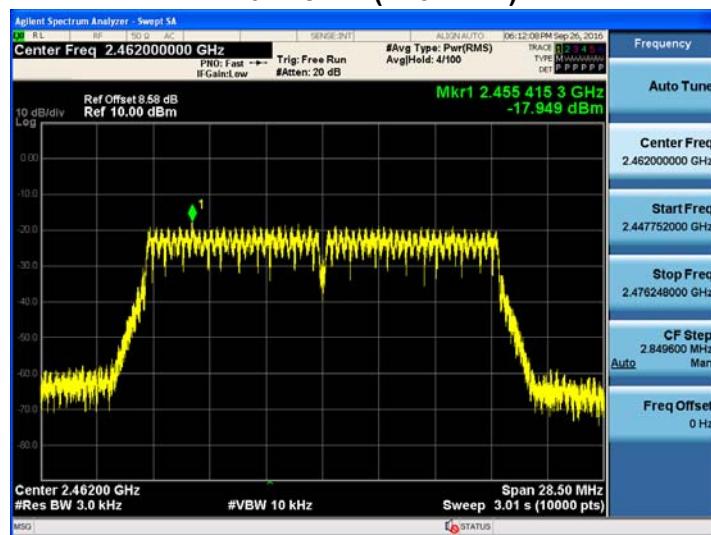
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



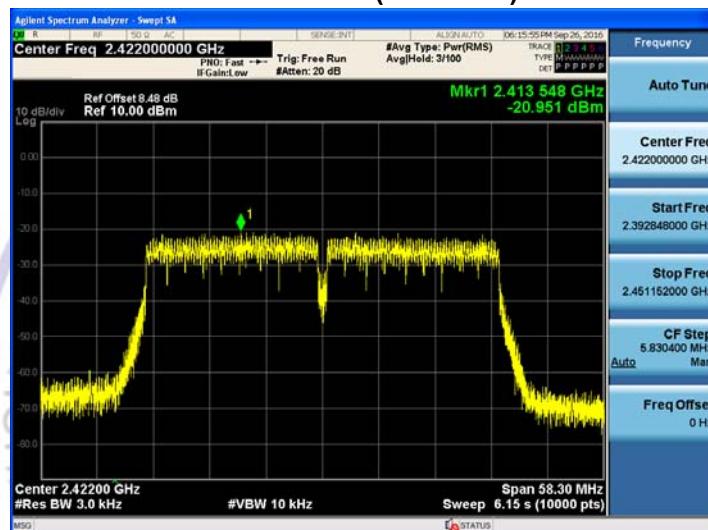
## Channel 11 (2462MHz)



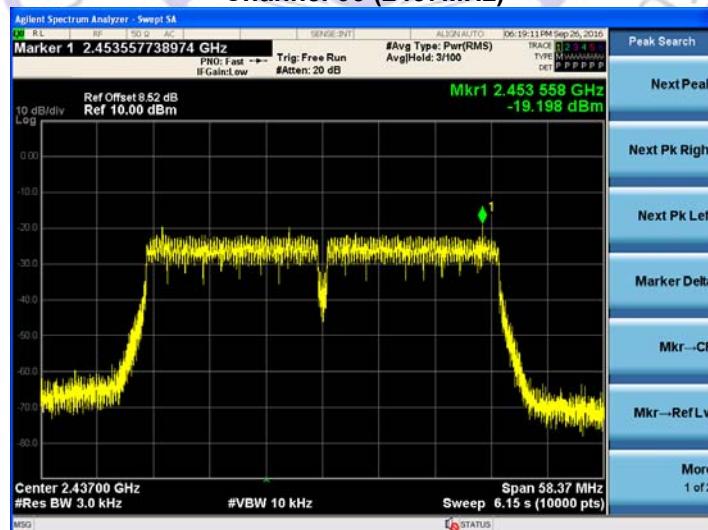
Product	:	10.1 Inch Android Tablet
Test Item	:	Power Spectral Density
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
03	2422	-20.951	8	Pass
06	2437	-19.198	8	Pass
09	2452	-20.321	8	Pass

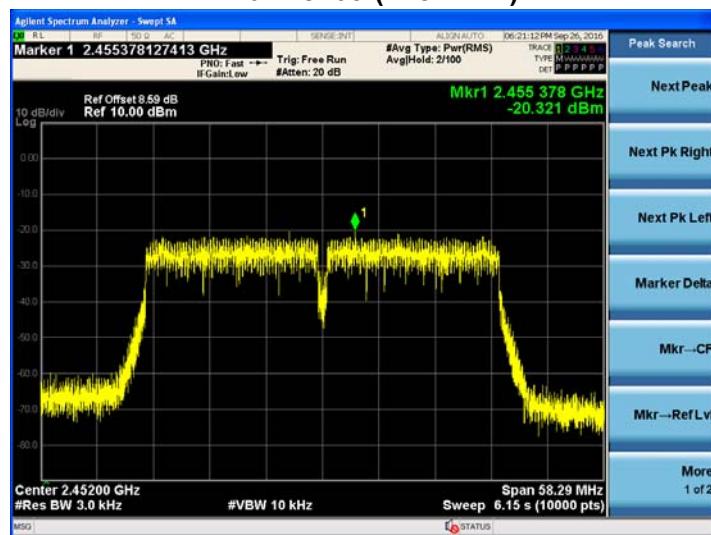
### Channel 03 (2422MHz)



### Channel 06 (2437MHz)

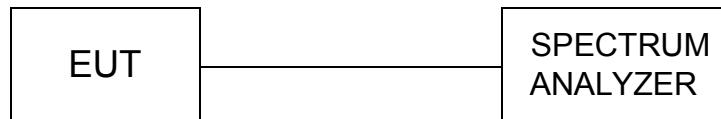


## Channel 09 (2452MHz)



## 4.6. Spurious RF Conducted Emission and bandedge Test

### TEST CONFIGURATION



### TEST PROCEDURE

The EUT was tested according to KDB558074 D01 v03r03 for compliance to FCC 47CFR 15.247 requirements.

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBM= 300KHz to measure the peak field strength , and measure frequeny range from 30MHz to 26.5GHz.

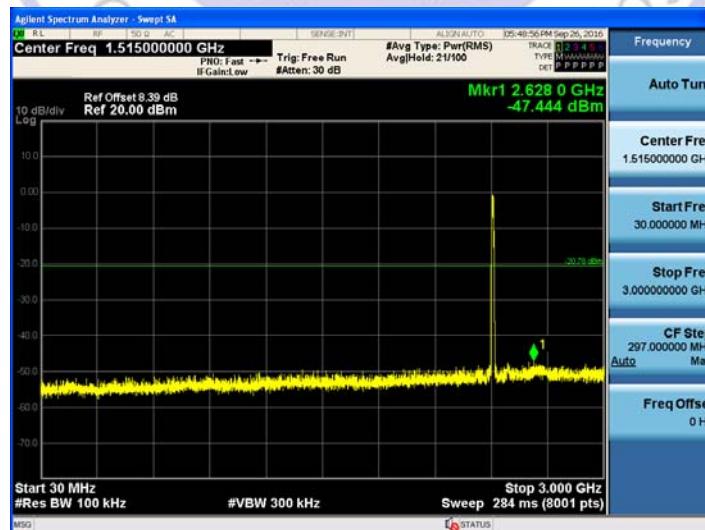
### LIMIT

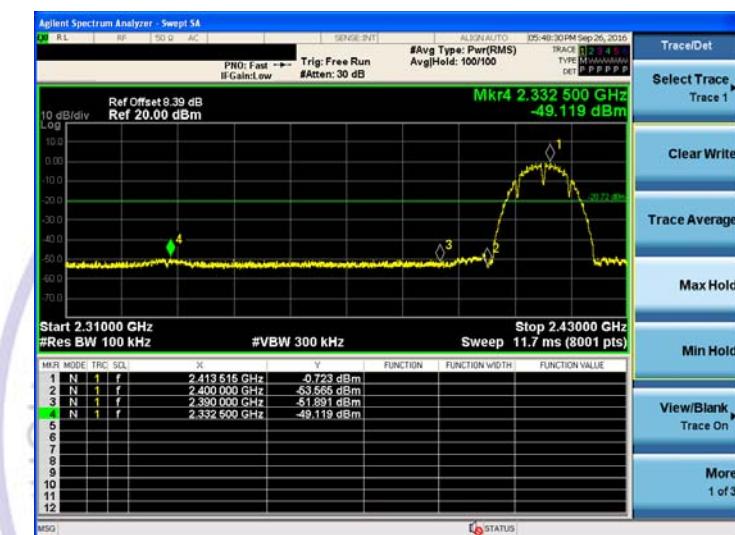
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

### TEST RESULTS

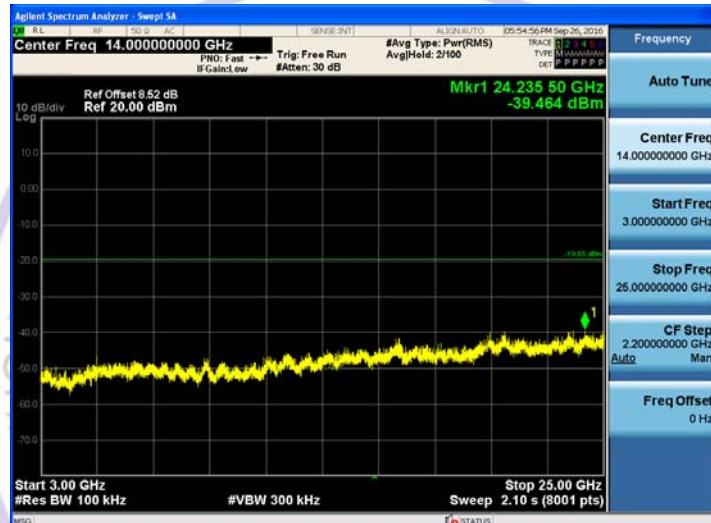
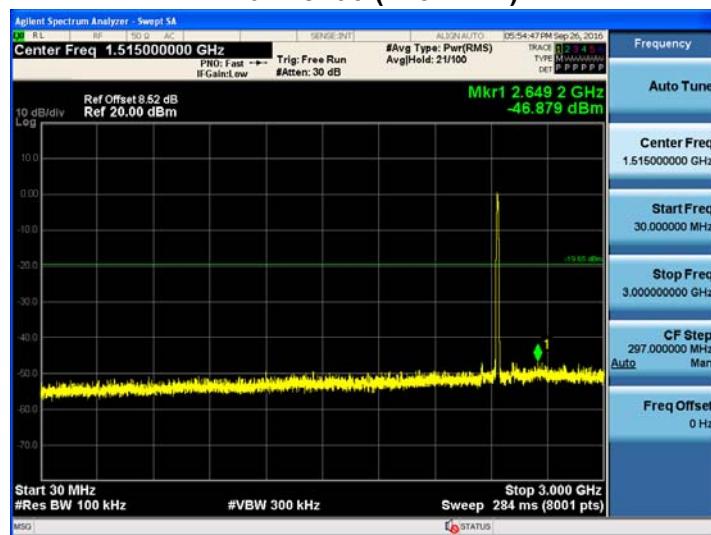
Product	:	10.1 Inch Android Tablet
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

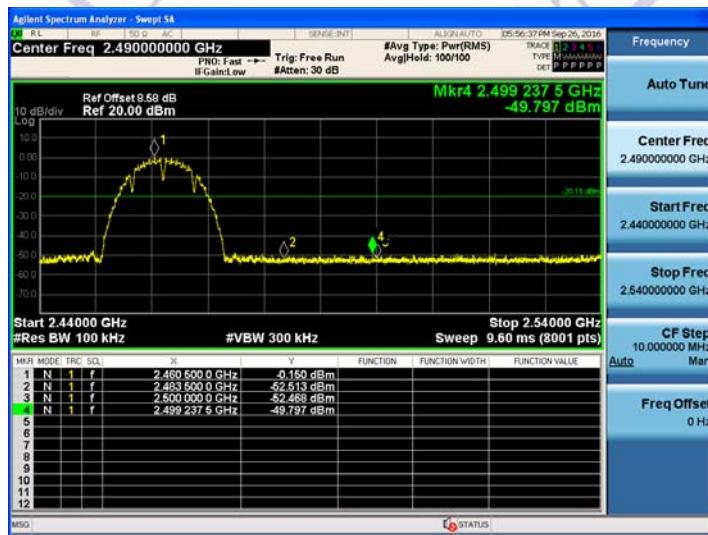
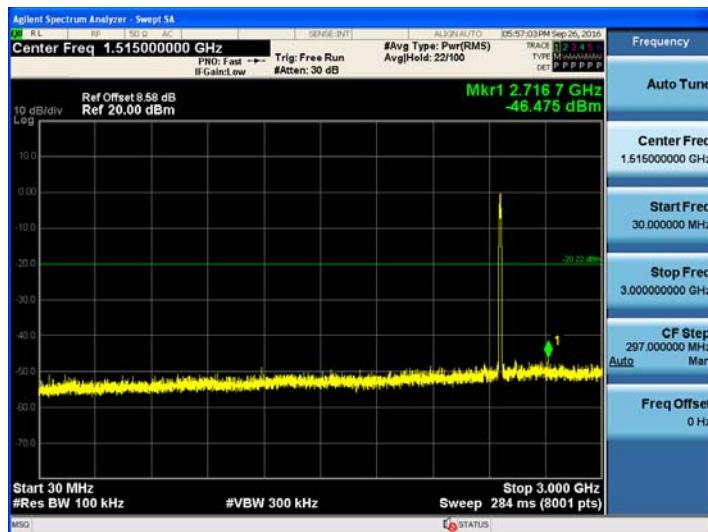




## Channel 06 (2437MHz)

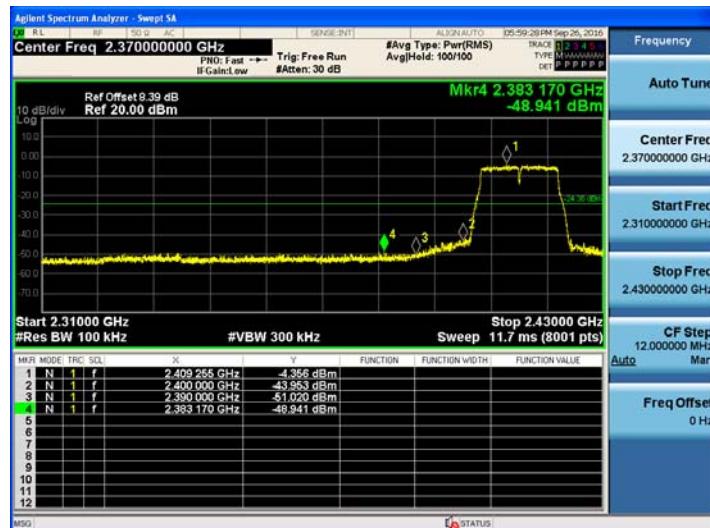
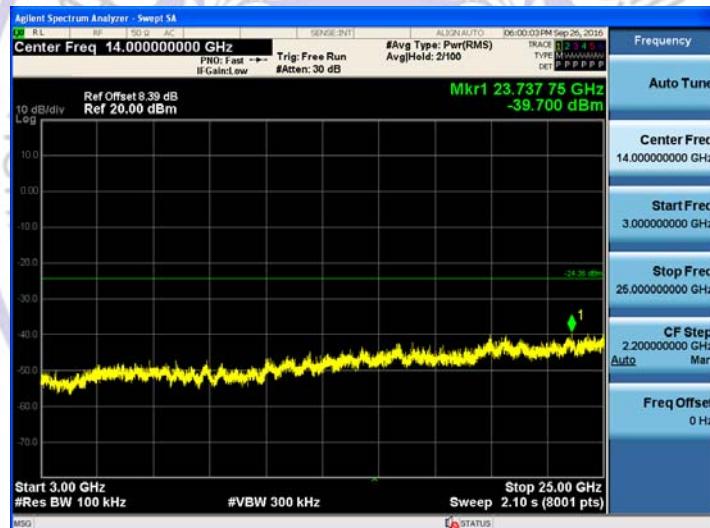
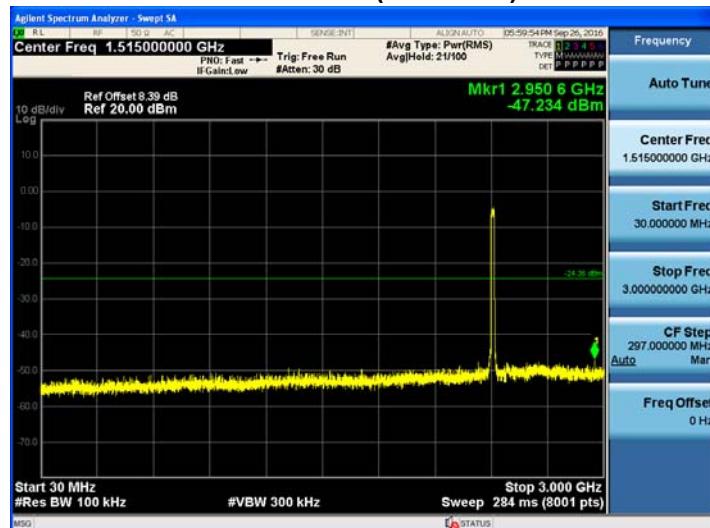


## Channel 11 (2462MHz)

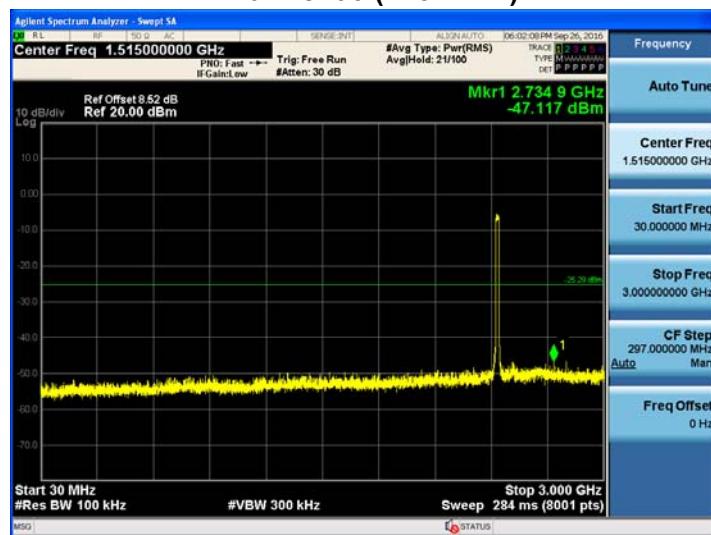


Product	:	10.1 Inch Android Tablet
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 2: Transmit by 802.11g

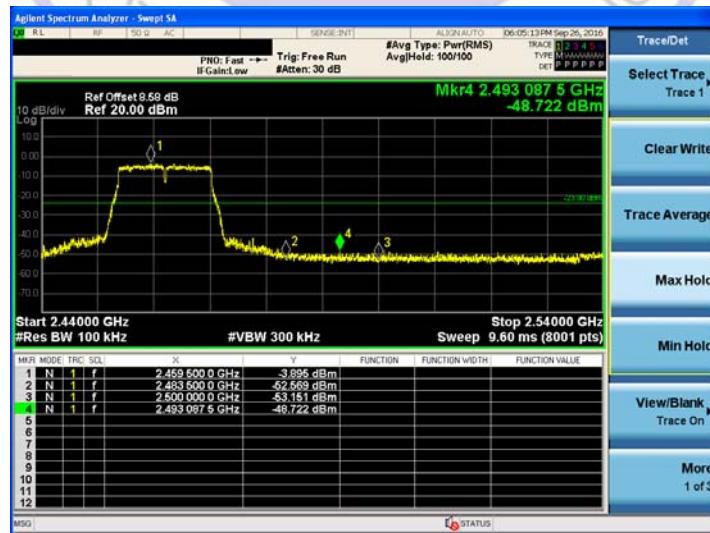
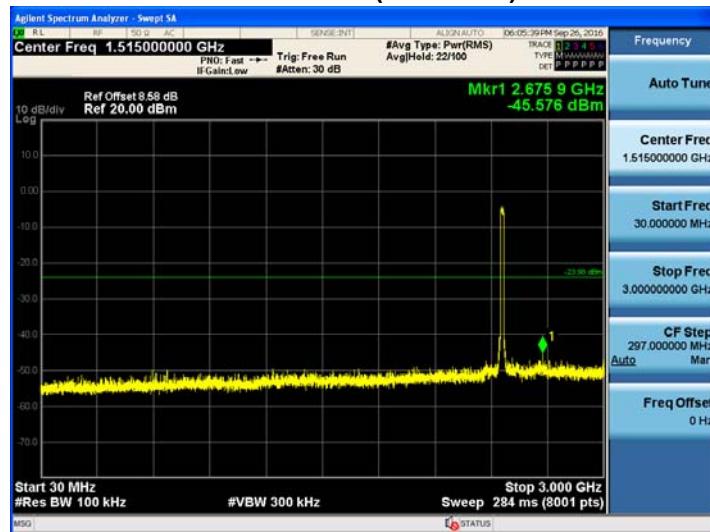
### Channel 01 (2412MHz)



## Channel 06 (2437MHz)

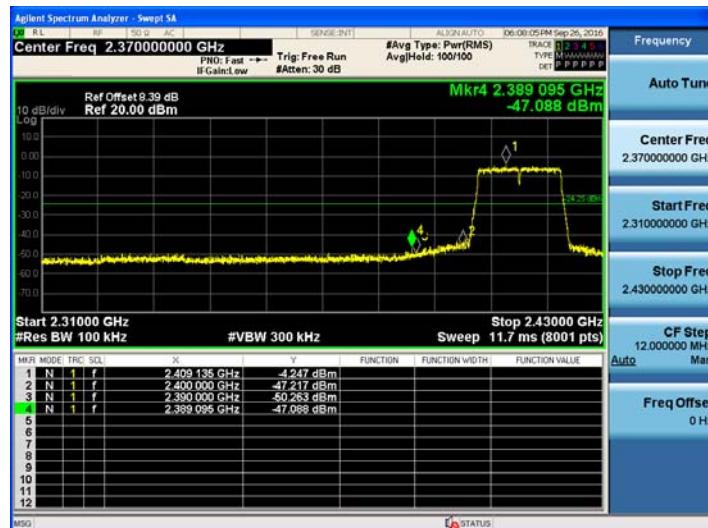
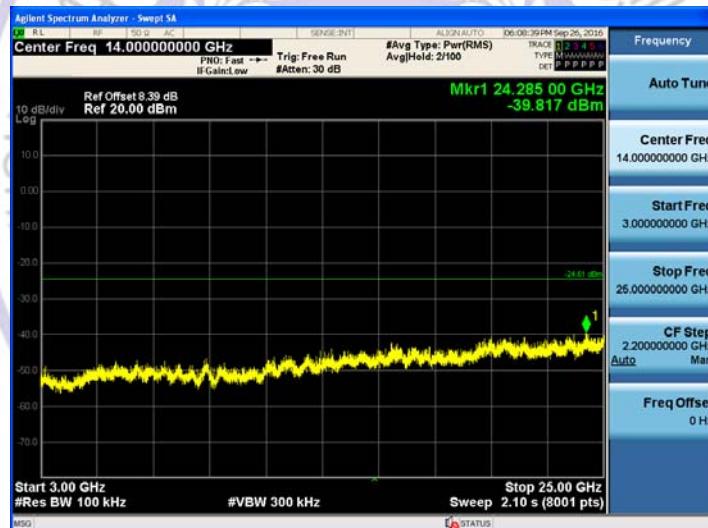
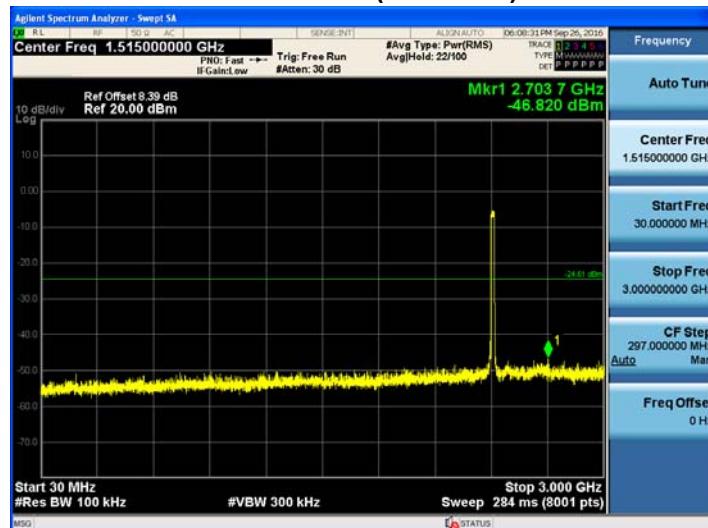


## Channel 11 (2462MHz)

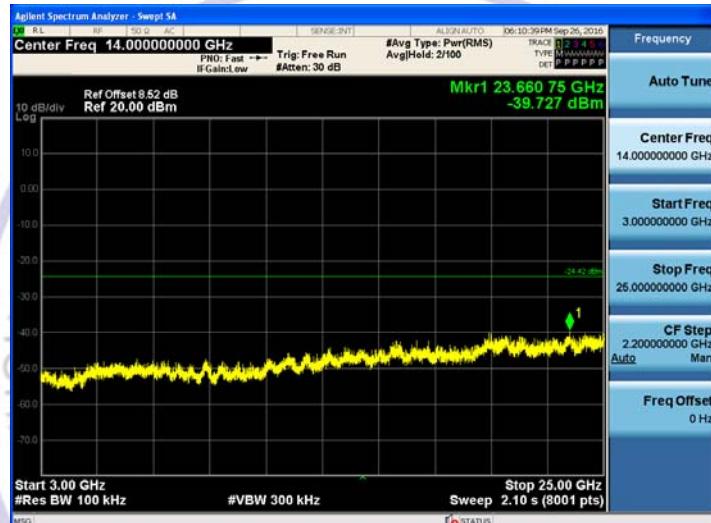
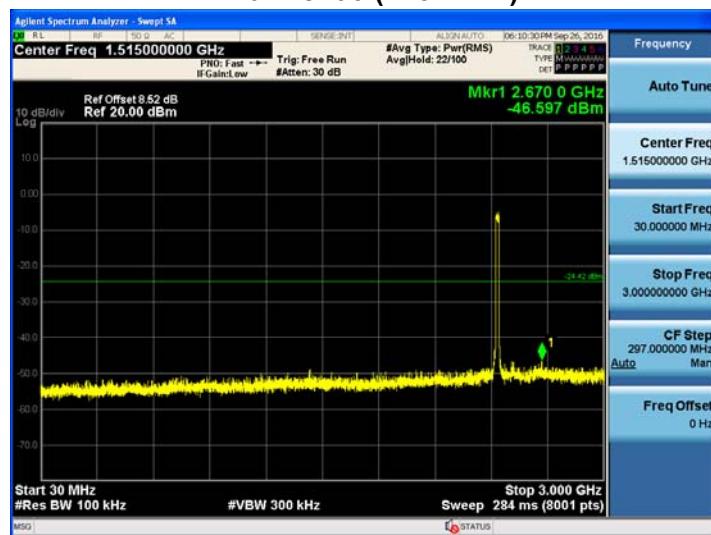


Product	:	10.1 Inch Android Tablet
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

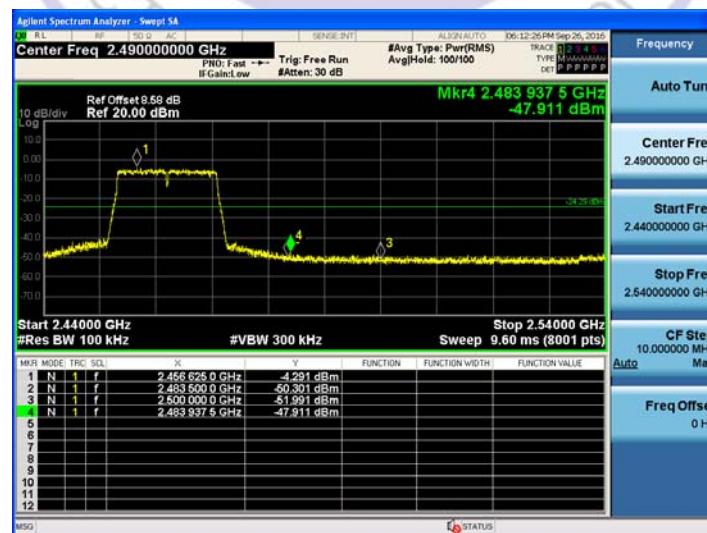
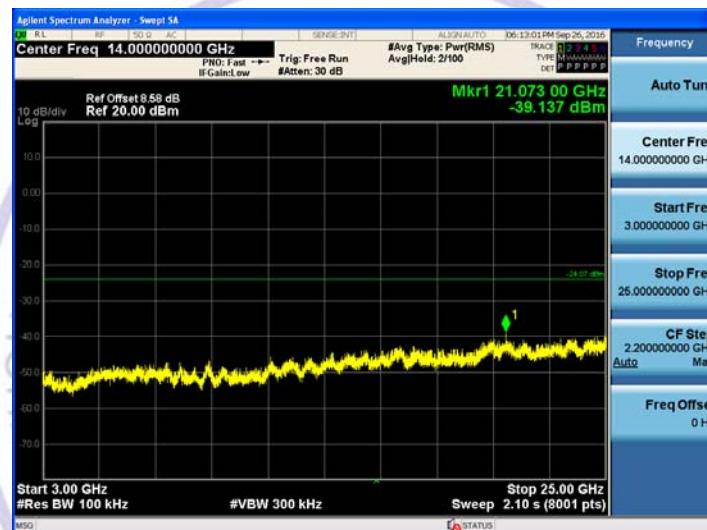
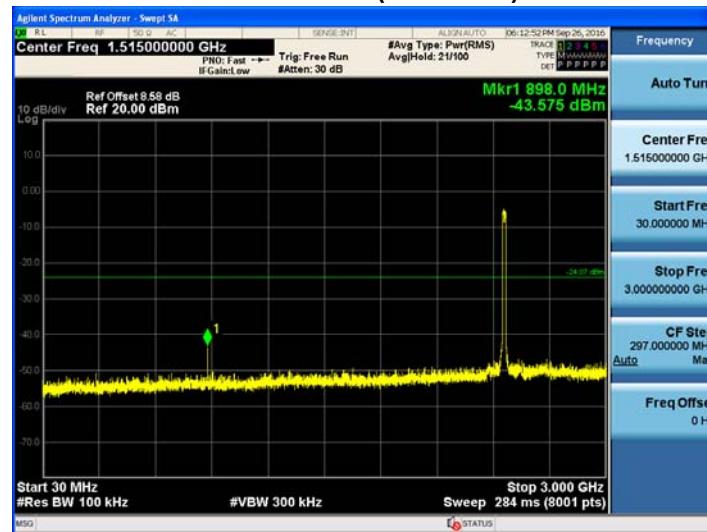
### Channel 01 (2412MHz)



## Channel 06 (2437MHz)

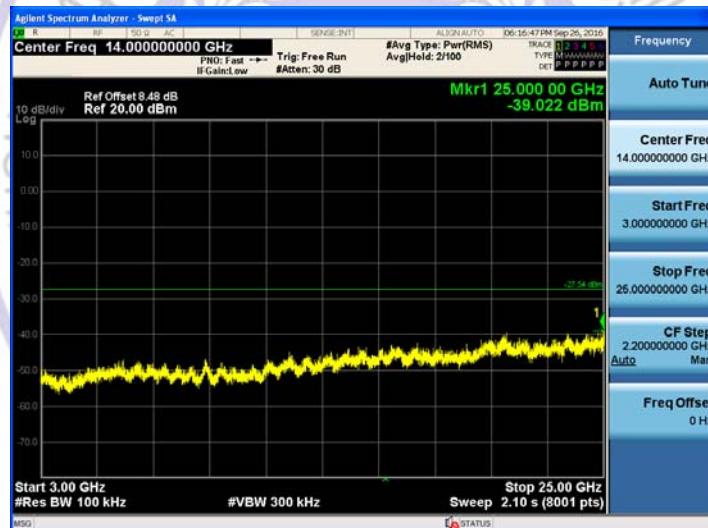
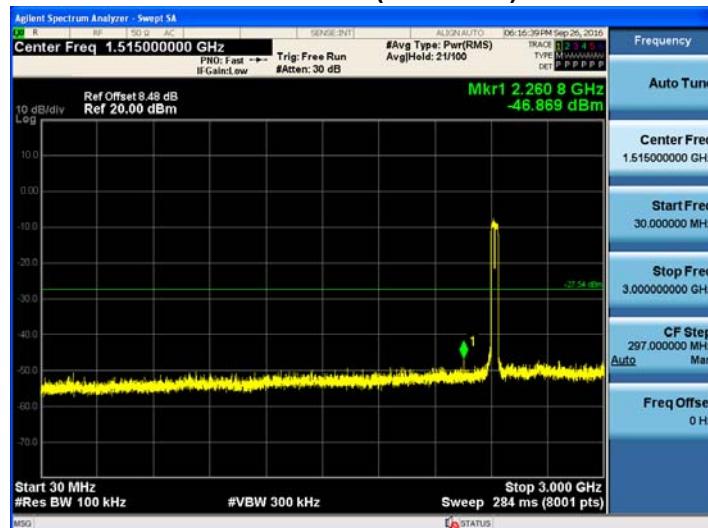


## Channel 11 (2462MHz)

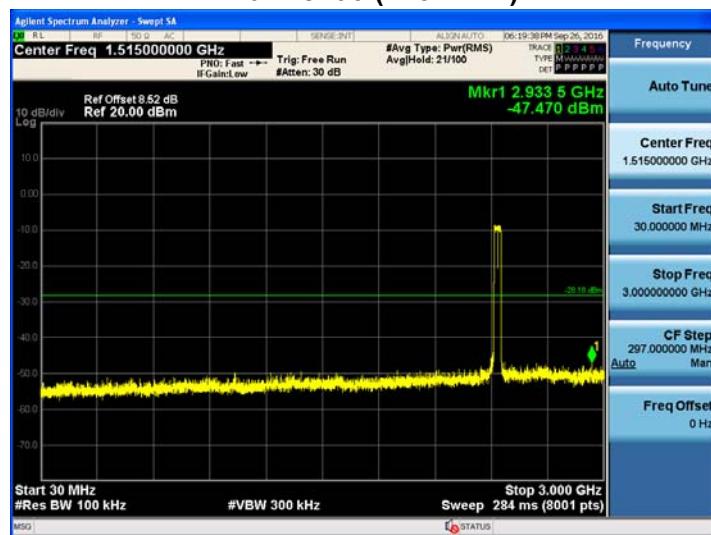


Product	:	10.1 Inch Android Tablet
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz)

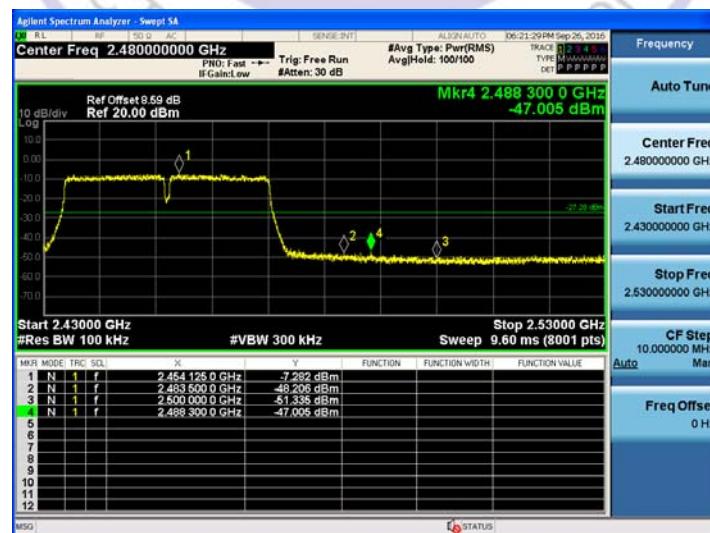
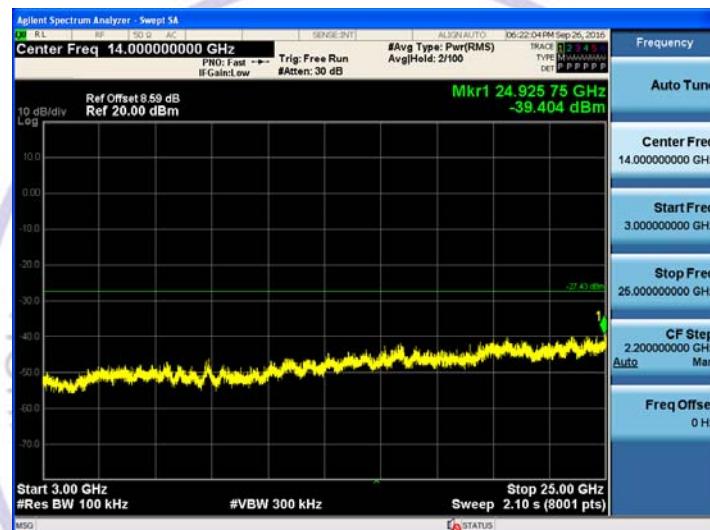
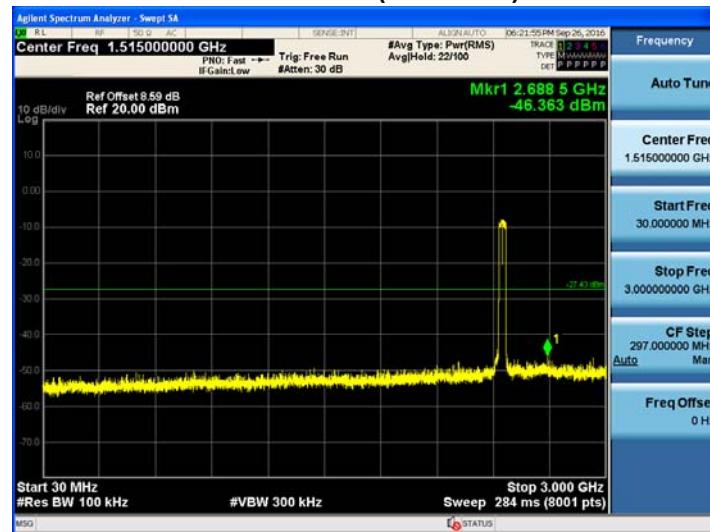
### Channel 03 (2422MHz)



## Channel 06 (2437MHz)



## Channel 09 (2452MHz)



## 4.8. Antenna Requirement

### STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, 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.

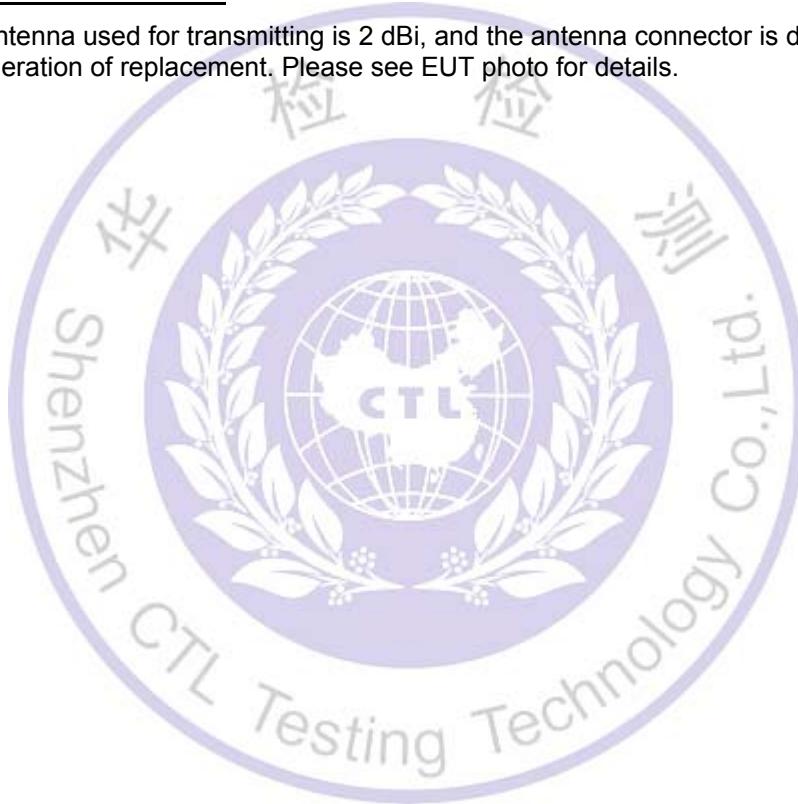
And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

**Refer to statement below for compliance.**

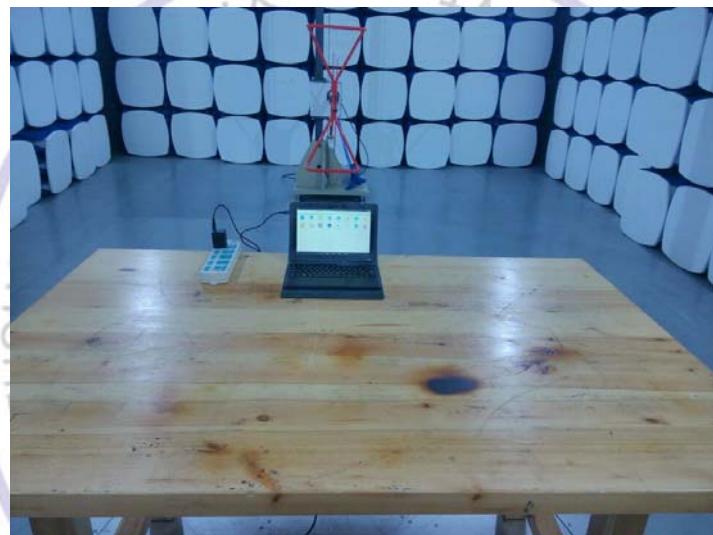
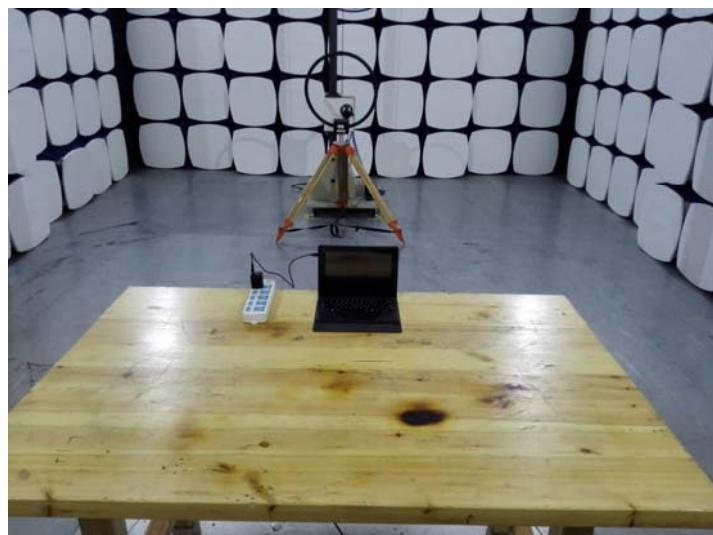
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### ANTENNA CONNECTED CONSTRUCTION

The directional gains of antenna used for transmitting is 2 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.



## 5. Test Setup Photos of the EUT

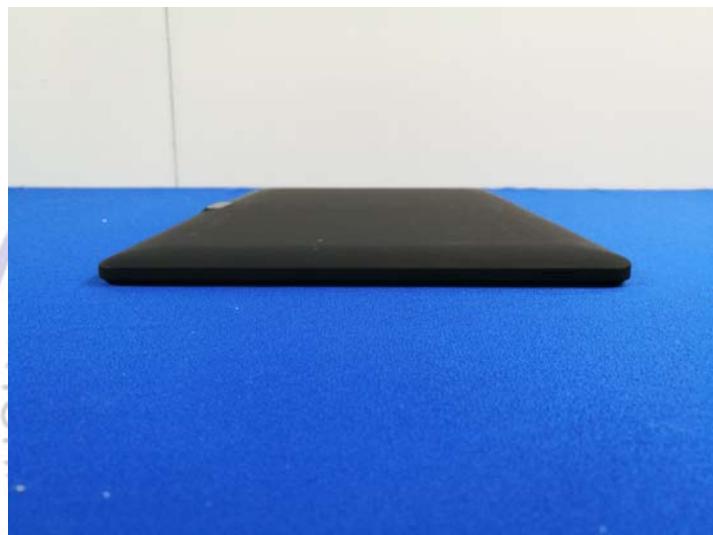
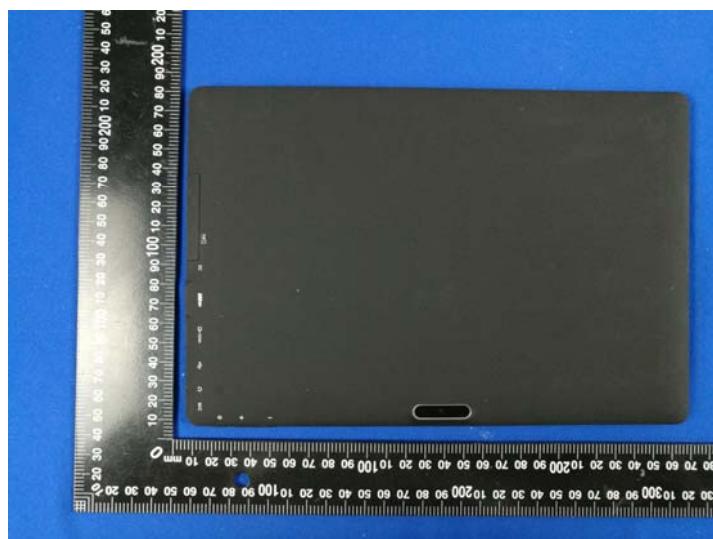




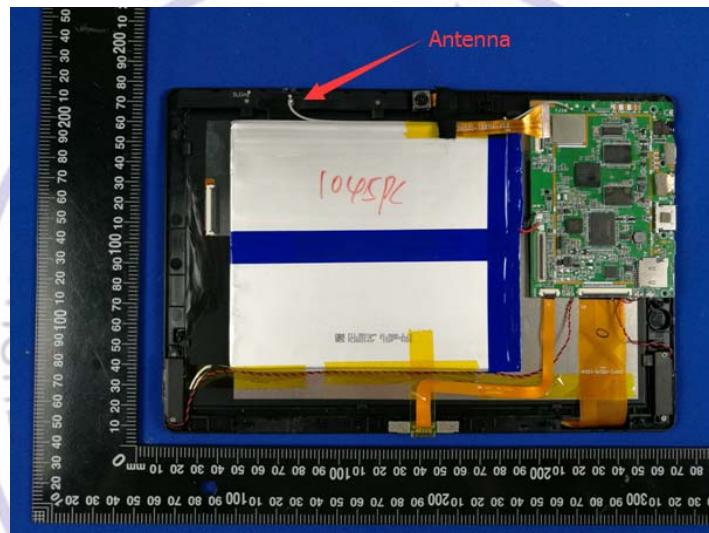
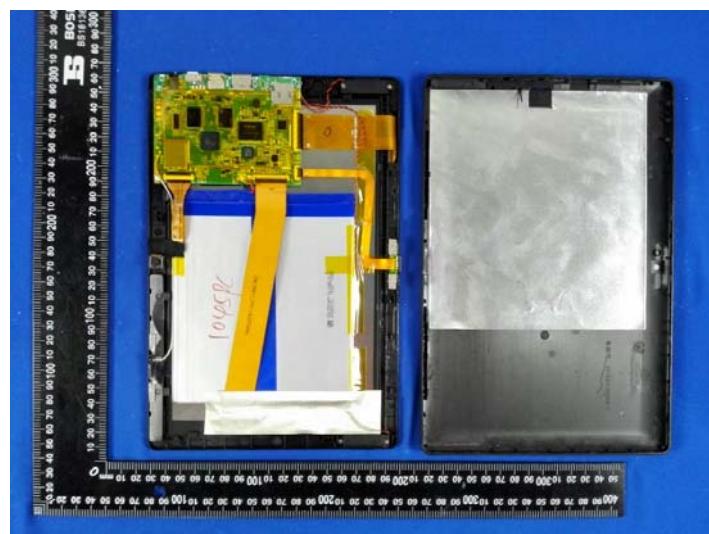
## 6. External and Internal Photos of the EUT

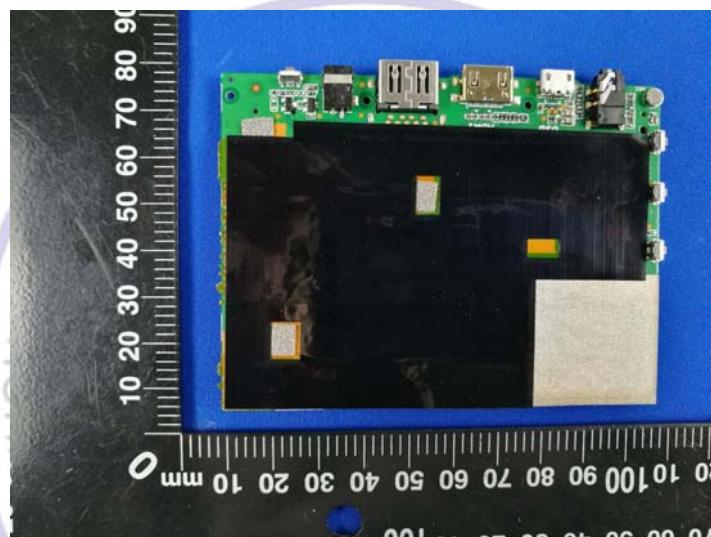
### External Photos of EUT







Internal Photos of EUT



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