

# FCC REPORT (WIFI)

**Applicant:** General Procurement, Inc

**Address of Applicant:** 800 E Dyer Road Santa Ana, CA 92705 United States

## Equipment Under Test (EUT)

**Product Name:** 5.7 inch smartphone

**Model No.:** Eternity G57L

**Trade mark:** Hyundai

**FCC ID:** 2AIOHHT2G57L

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** 17 Sep., 2019

**Date of Test:** 17 Sep., to 15 Oct., 2019

**Date of report issued:** 17 Oct., 2019

**Test Result:** PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

Version No.	Date	Description
00	17 Oct., 2019	Original

Tested by:

Janet Wei Date: \_\_\_\_\_

**Test Engineer**

17 Oct., 2019

Reviewed by:

Winner Zhang Date: \_\_\_\_\_

**Project Engineer**

17 Oct., 2019

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## 4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (b)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 & 15.209	Pass
<b>Remark:</b>		
1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).		
<b>Test Method:</b>	ANSI C63.4-2014 ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02	

## 5 General Information

### 5.1 Client Information

Applicant:	General Procurement, Inc
Address:	800 E Dyer Road Santa Ana, CA 92705 United States
Manufacturer/ Factory:	Shen Zhen Cheng Fong Digital-Tech Limited
Address:	Building A, ChengFong Industrial Area, Huaxing road, Dalang, Longhua, Shen Zhen, China

### 5.2 General Description of E.U.T.

Product Name:	5.7 inch smartphone
Model No.:	Eternity G57L
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	0.36dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2750mAh
AC adapter:	Model: K-T50501000U1 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

*Note:*

- For 802.11n-HT40 mode, the channel number is from 3 to 9;
- Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

### 5.3 Test environment and test mode

<b>Operating Environment:</b>	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

<b>Per-scan all kind of data rate, the follow list were the worst case.</b>	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

### 5.4 Description of Support Units

The EUT has been tested as an independent unit.

### 5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

### 5.6 Additions to, deviations, or exclusions from the method

No

### 5.7 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.  
 Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
 Bao'an District, Shenzhen, Guangdong, China  
 Tel: +86-755-23118282, Fax: +86-755-23116366  
 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

## 5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2019	07-20-2020
Cable	HP	10503A	N/A	03-18-2019	03-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		

## 6 Test results and Measurement Data

### 6.1 Antenna requirement

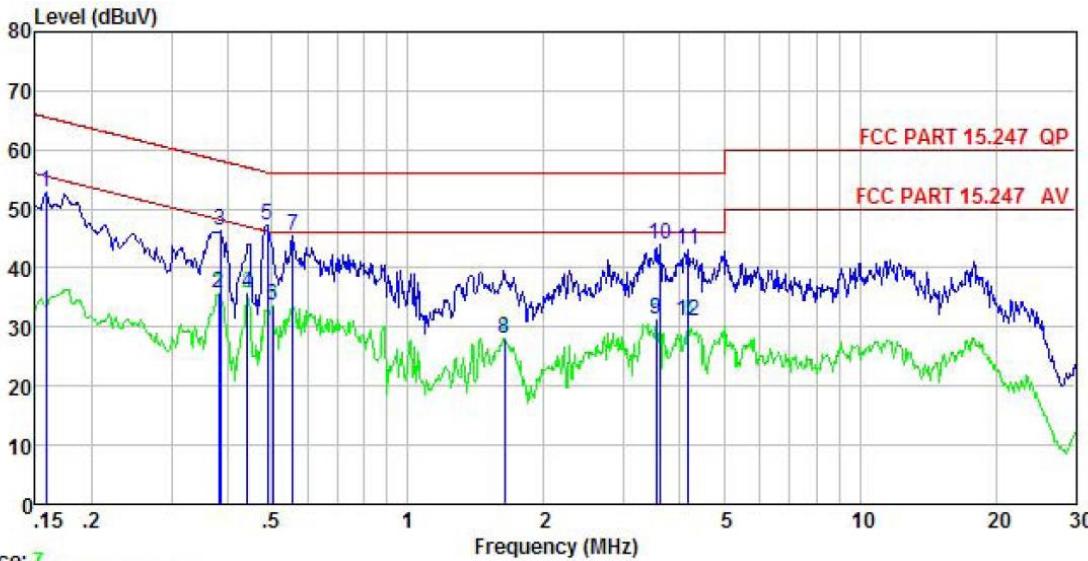
Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement:	(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
E.U.T Antenna:	The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 0.36 dBi. 

## 6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
Limit:	Frequency range (MHz)		Limit (dBuV)
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	<ol style="list-style-type: none"> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>		
Test setup:	<p style="text-align: center;"><b>Reference Plane</b></p> <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test Instruments:	Refer to section 5.9 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

**Measurement Data:**

<b>Product name:</b>	5.7 inch smartphone			<b>Product model:</b>	Eternity G57L		
<b>Test by:</b>	Janet			<b>Test mode:</b>	Wi-Fi Tx mode		
<b>Test frequency:</b>	150 kHz ~ 30 MHz			<b>Phase:</b>	Line		
<b>Test voltage:</b>	AC 120 V/60 Hz			<b>Environment:</b>	Temp: 22.5°C Huni: 55%		

Trace: 7

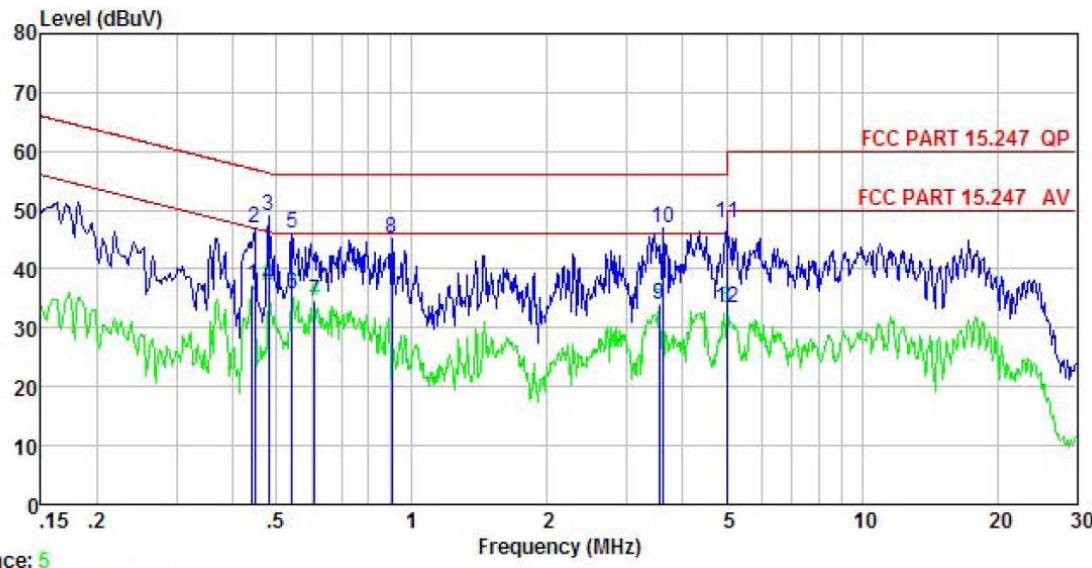
  

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.158	42.66	-0.44	10.77	52.99	65.56	-12.57	QP
2	0.381	25.28	-0.37	10.72	35.63	48.25	-12.62	Average
3	0.385	36.00	-0.37	10.72	46.35	58.17	-11.82	QP
4	0.442	25.24	-0.38	10.74	35.60	47.02	-11.42	Average
5	0.489	36.82	-0.39	10.76	47.19	56.19	-9.00	QP
6	0.502	23.37	-0.39	10.76	33.74	46.00	-12.26	Average
7	0.555	35.10	-0.39	10.76	45.47	56.00	-10.53	QP
8	1.636	17.66	-0.40	10.93	28.19	46.00	-17.81	Average
9	3.547	20.81	-0.45	10.90	31.26	46.00	-14.74	Average
10	3.623	33.56	-0.45	10.90	44.01	56.00	-11.99	QP
11	4.180	32.75	-0.47	10.88	43.16	56.00	-12.84	QP
12	4.180	20.57	-0.47	10.88	30.98	46.00	-15.02	Average

**Notes:**

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

<b>Product name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test by:</b>	Janet	<b>Test mode:</b>	Wi-Fi Tx mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz	<b>Environment:</b>	Temp: 22.5°C Huni: 55%

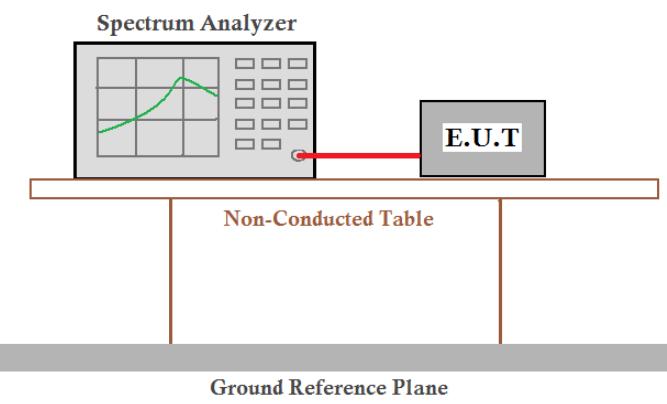


Freq	Read	LISN	Cable	Limit	Over	Remark
	MHz	Level	Factor			
	MHz	dBuV	dB	dB	dBuV	dB
1	0.442	27.18	-0.64	10.74	37.28	47.02 -9.74 Average
2	0.447	36.69	-0.64	10.74	46.79	56.93 -10.14 QP
3	0.481	38.90	-0.65	10.75	49.00	56.32 -7.32 QP
4	0.481	27.08	-0.65	10.75	37.18	46.32 -9.14 Average
5	0.541	35.85	-0.65	10.76	45.96	56.00 -10.04 QP
6	0.541	25.67	-0.65	10.76	35.78	46.00 -10.22 Average
7	0.608	24.45	-0.64	10.77	34.58	46.00 -11.42 Average
8	0.904	34.85	-0.63	10.84	45.06	56.00 -10.94 QP
9	3.547	23.66	-0.69	10.90	33.87	46.00 -12.13 Average
10	3.603	36.59	-0.69	10.90	46.80	56.00 -9.20 QP
11	5.005	37.59	-0.72	10.85	47.72	60.00 -12.28 QP
12	5.005	23.14	-0.72	10.85	33.27	50.00 -16.73 Average

**Notes:**

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

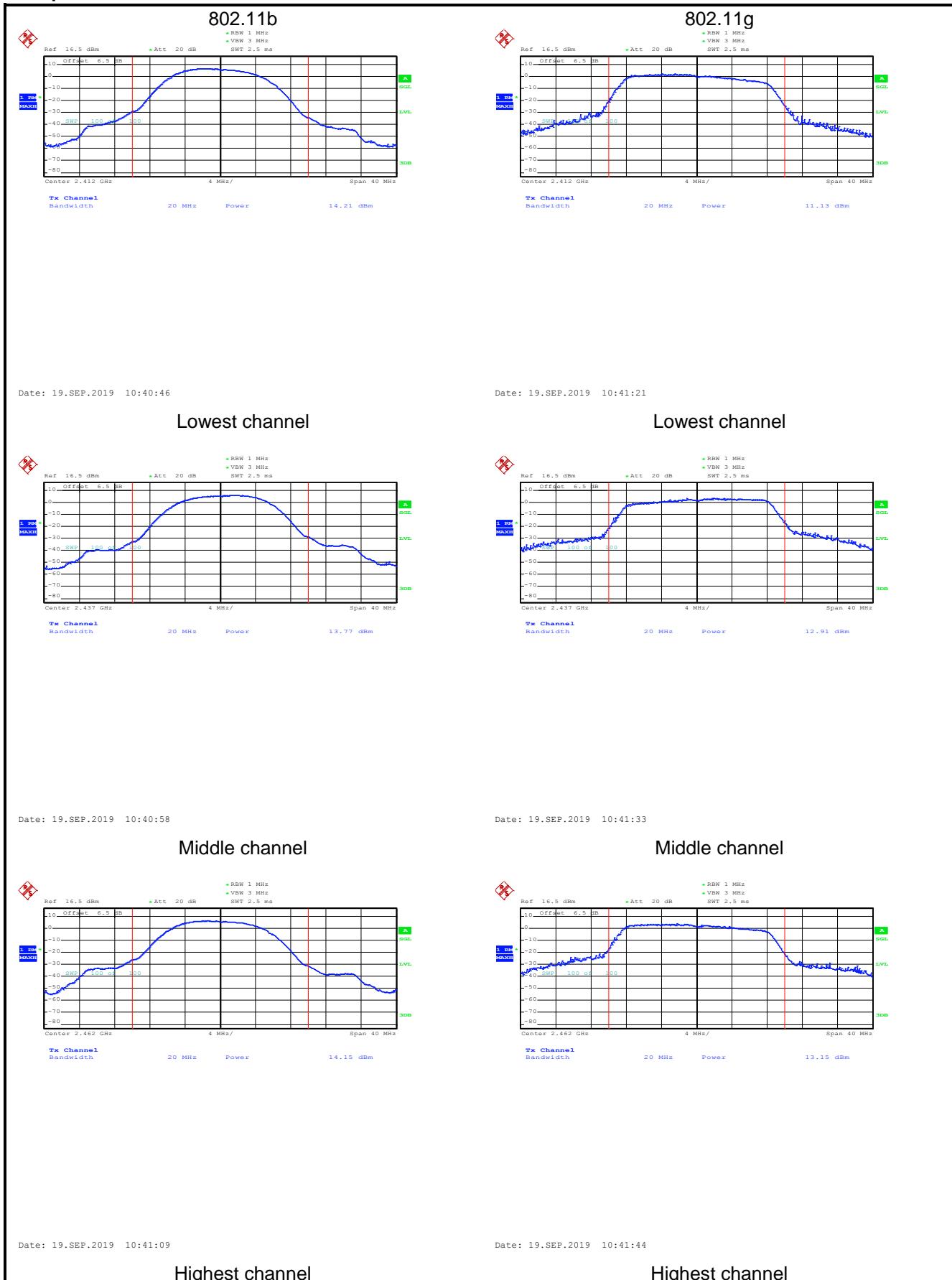
### 6.3 Conducted Output Power

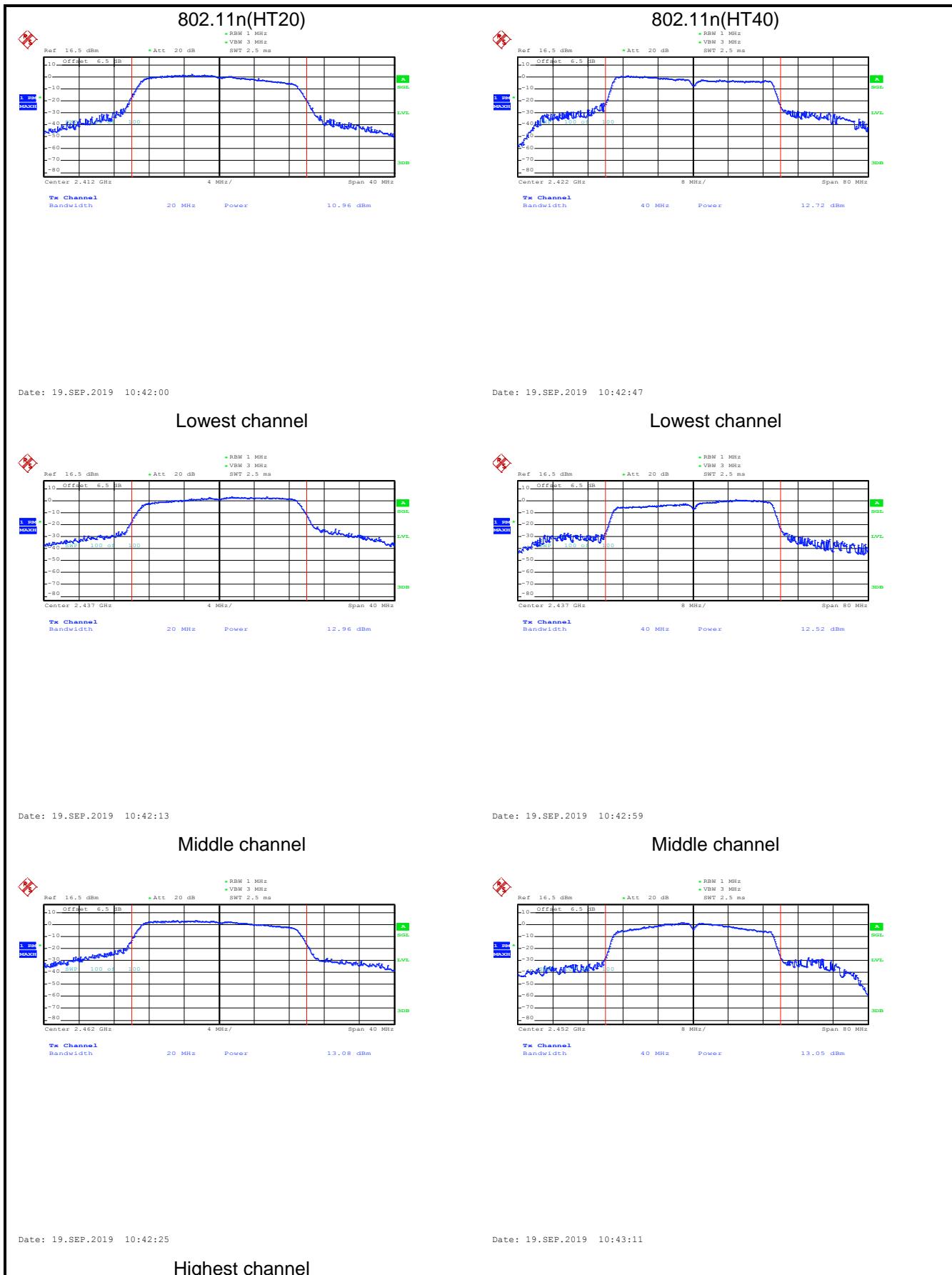
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

#### Measurement Data:

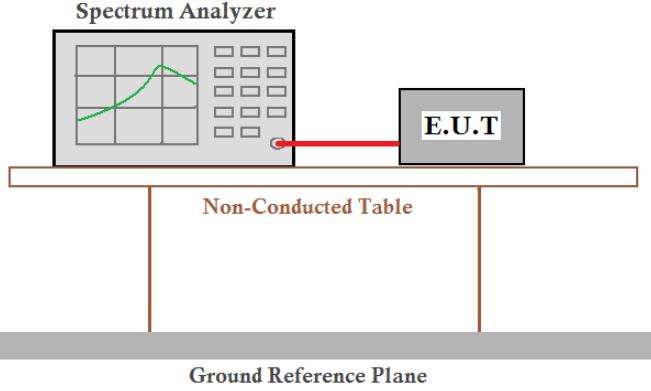
Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	14.21	11.13	10.96	12.72	30.00	Pass
Middle	13.77	12.91	12.96	12.52		
Highest	14.15	13.15	13.08	13.05		

Test plot as follows:





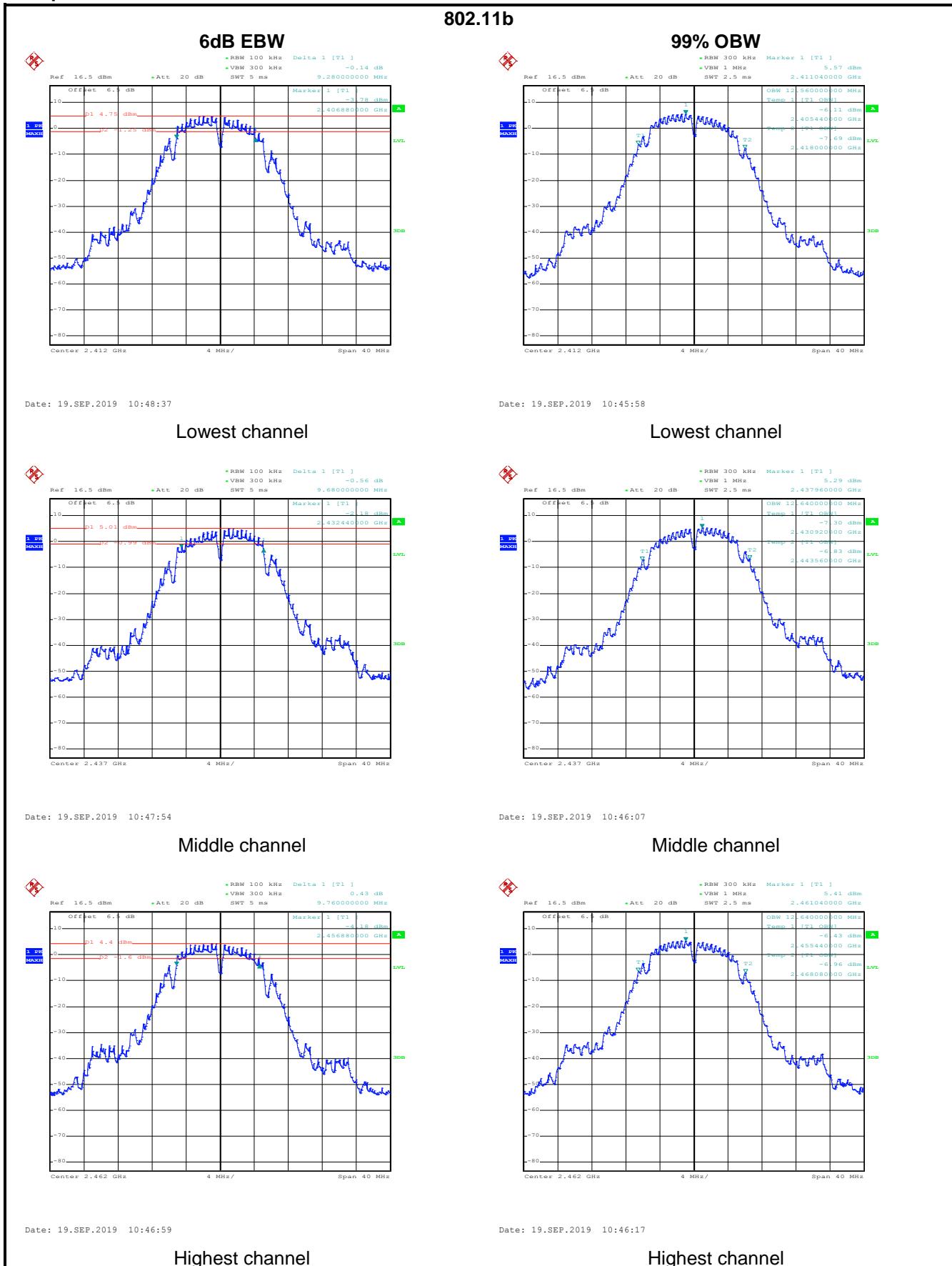
## 6.4 Occupy Bandwidth

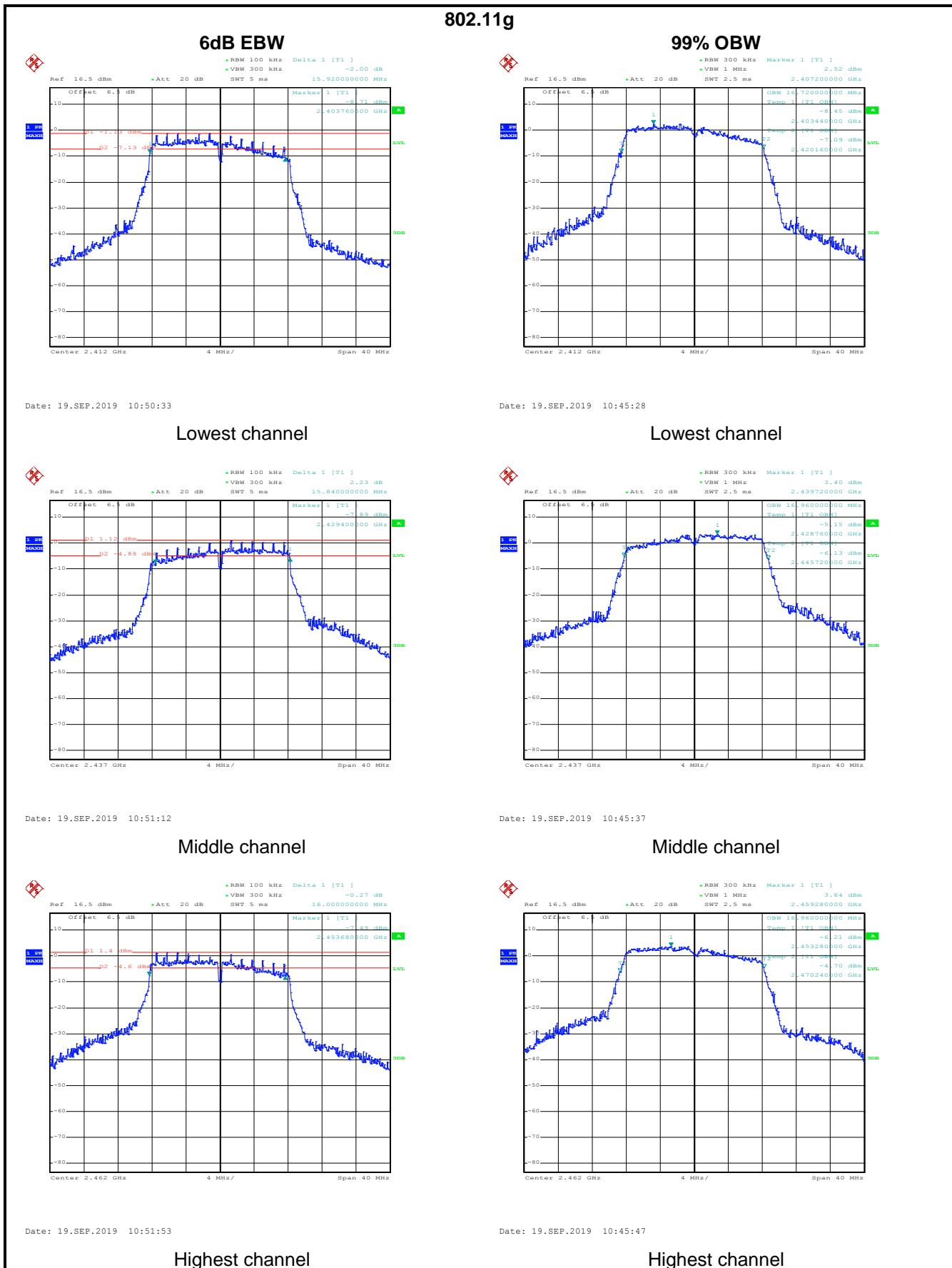
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Limit:	>500kHz
Test setup:	 <p>The diagram illustrates the test setup for measuring occupied bandwidth. A Spectrum Analyzer is positioned above a Non-Conducted Table. On the table, there is a grey rectangular box labeled "E.U.T". A red line connects the Spectrum Analyzer to the E.U.T. Below the table is a thick grey horizontal bar labeled "Ground Reference Plane".</p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

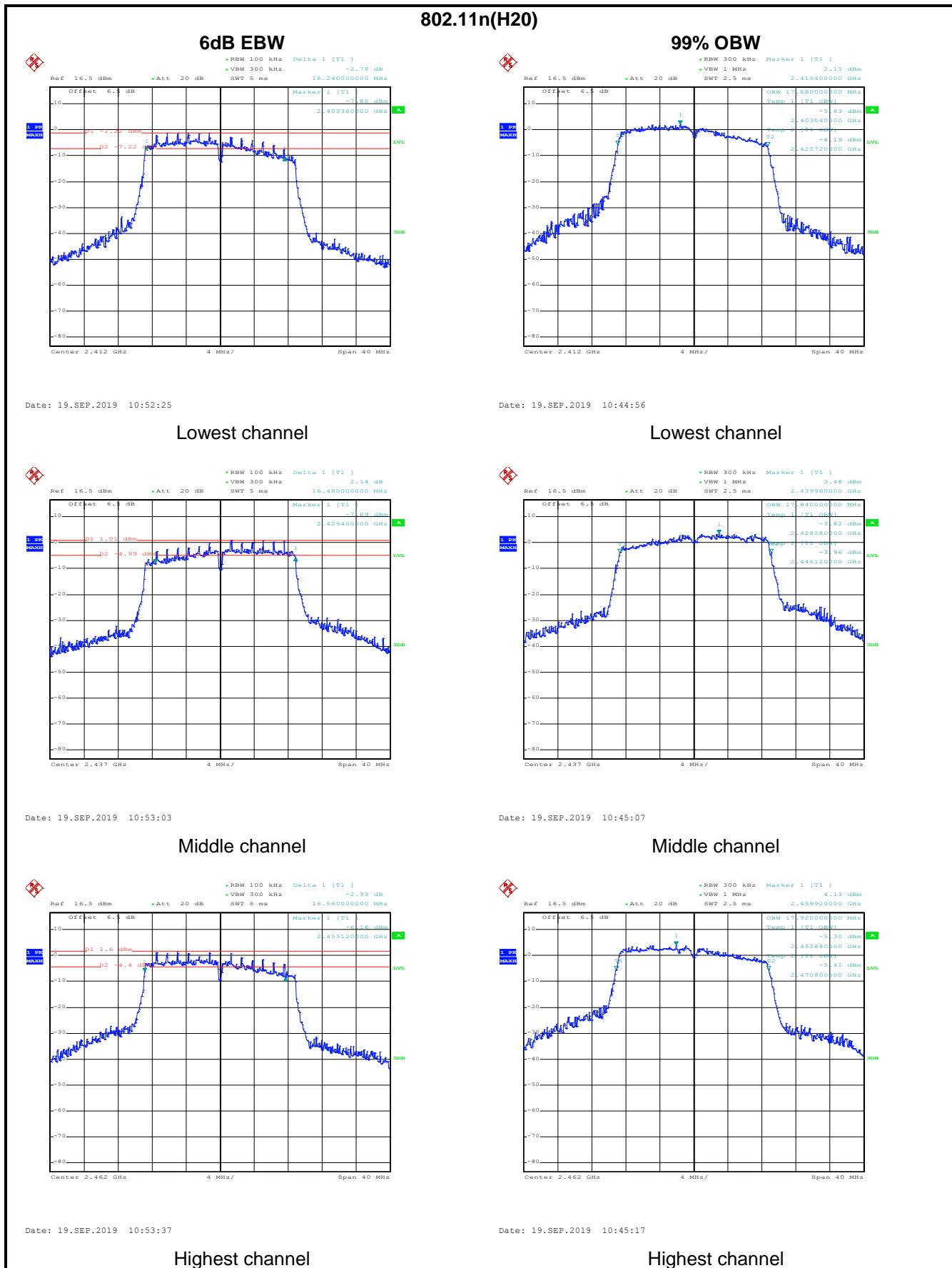
### Measurement Data:

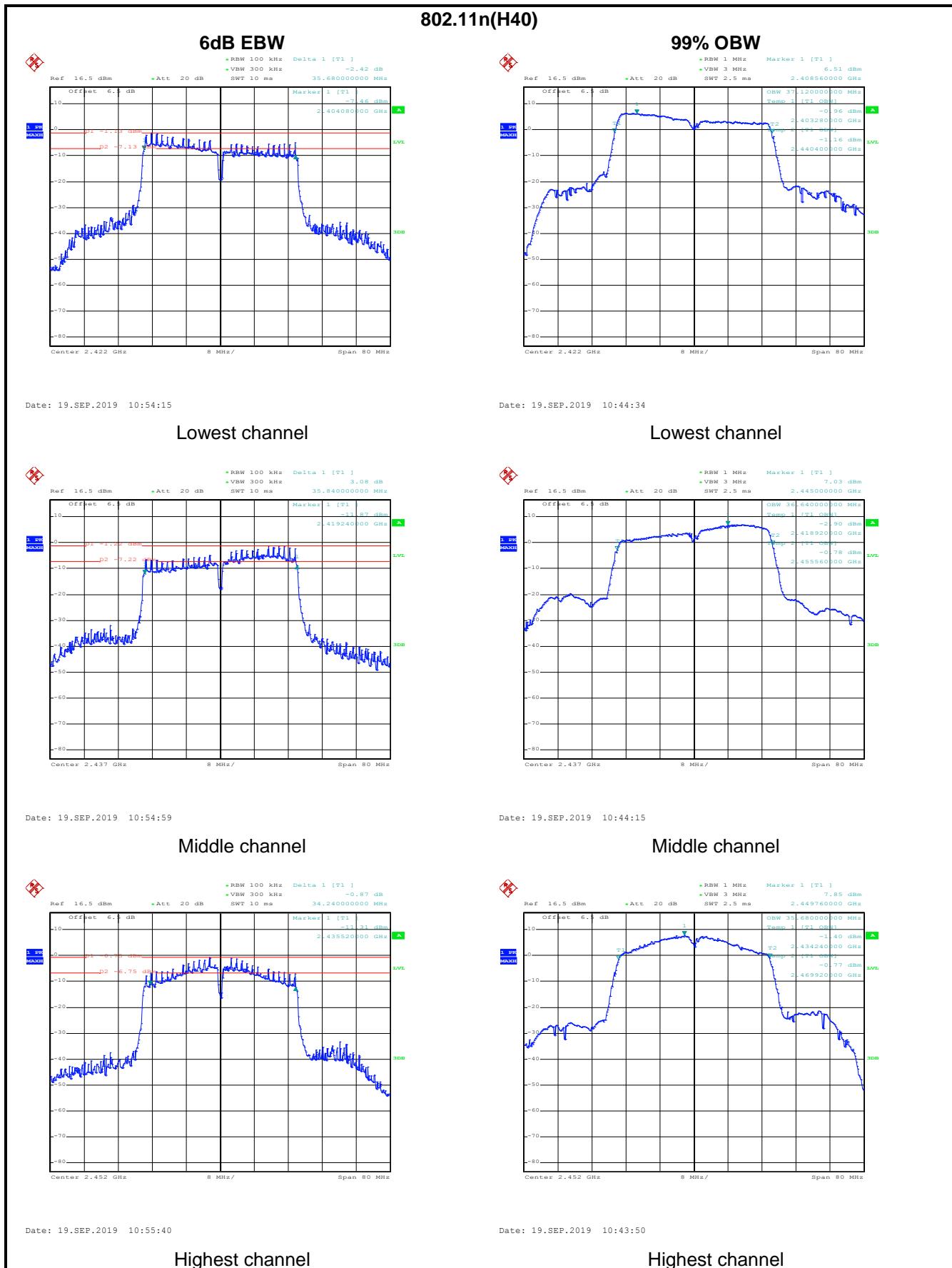
Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	9.28	15.92	16.24	35.68	>500	Pass
Middle	9.68	15.84	16.48	35.84		
Highest	9.76	16.00	16.56	34.24		
Test CH	99% Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	12.56	16.72	17.68	37.12	N/A	N/A
Middle	12.64	16.96	17.84	36.64		
Highest	12.64	16.96	17.92	35.68		

Test plot as follows:

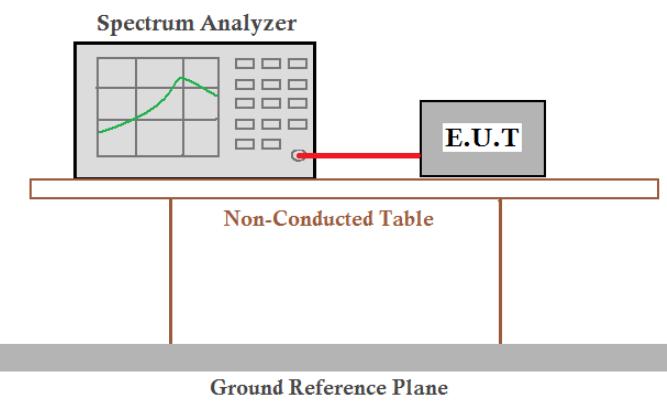








## 6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)
Limit:	8dBm
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is positioned at the top left, displaying a green waveform on its screen. A red line extends from the analyzer's output port to a grey rectangular box labeled 'E.U.T' (Equipment Under Test). This 'E.U.T' box rests on a horizontal brown bar labeled 'Non-Conducted Table'. Below the table is a thick grey horizontal bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

### Measurement Data:

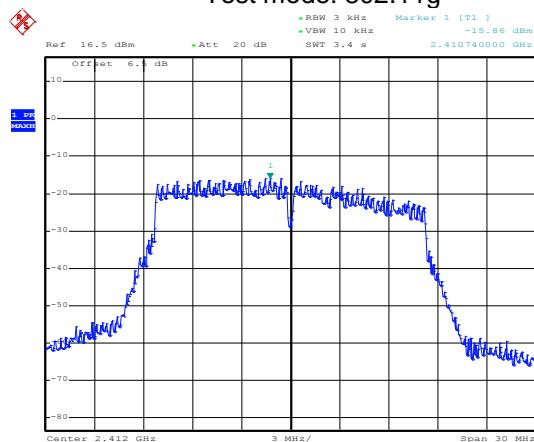
Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	-10.07	-15.86	-15.51	-15.97	8.00	Pass
Middle	-9.62	-14.17	-13.63	-15.53		
Highest	-10.48	-13.58	-13.76	-14.67		

Test plot as follows:

Test mode: 802.11b

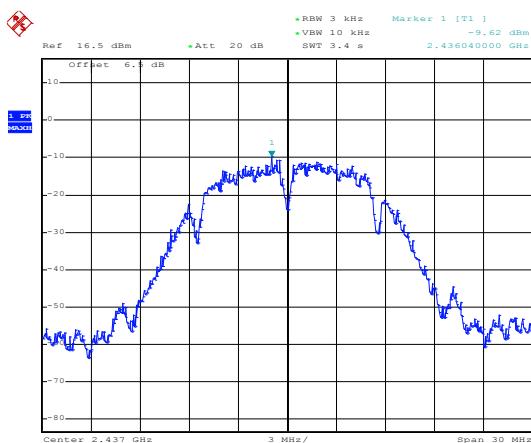


Test mode: 802.11g



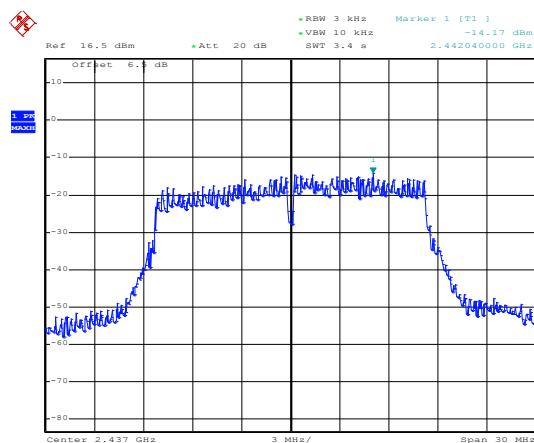
Date: 19.SEP.2019 11:00:40

Lowest channel



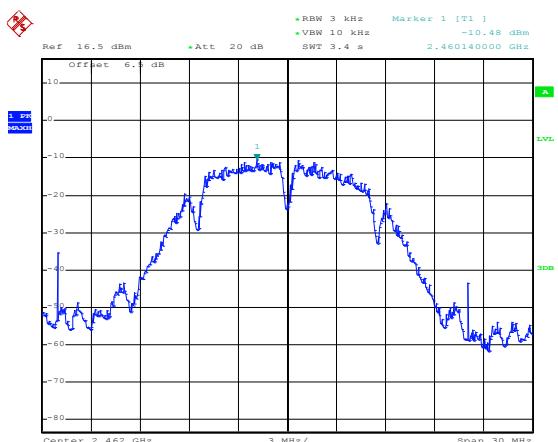
Date: 19.SEP.2019 10:59:43

Lowest channel



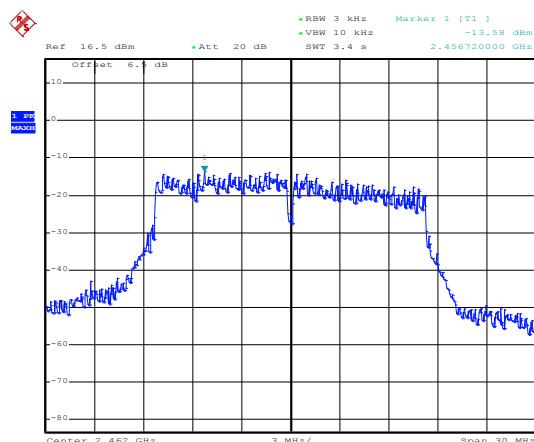
Date: 19.SEP.2019 11:00:59

Middle channel



Date: 19.SEP.2019 11:00:00

Middle channel

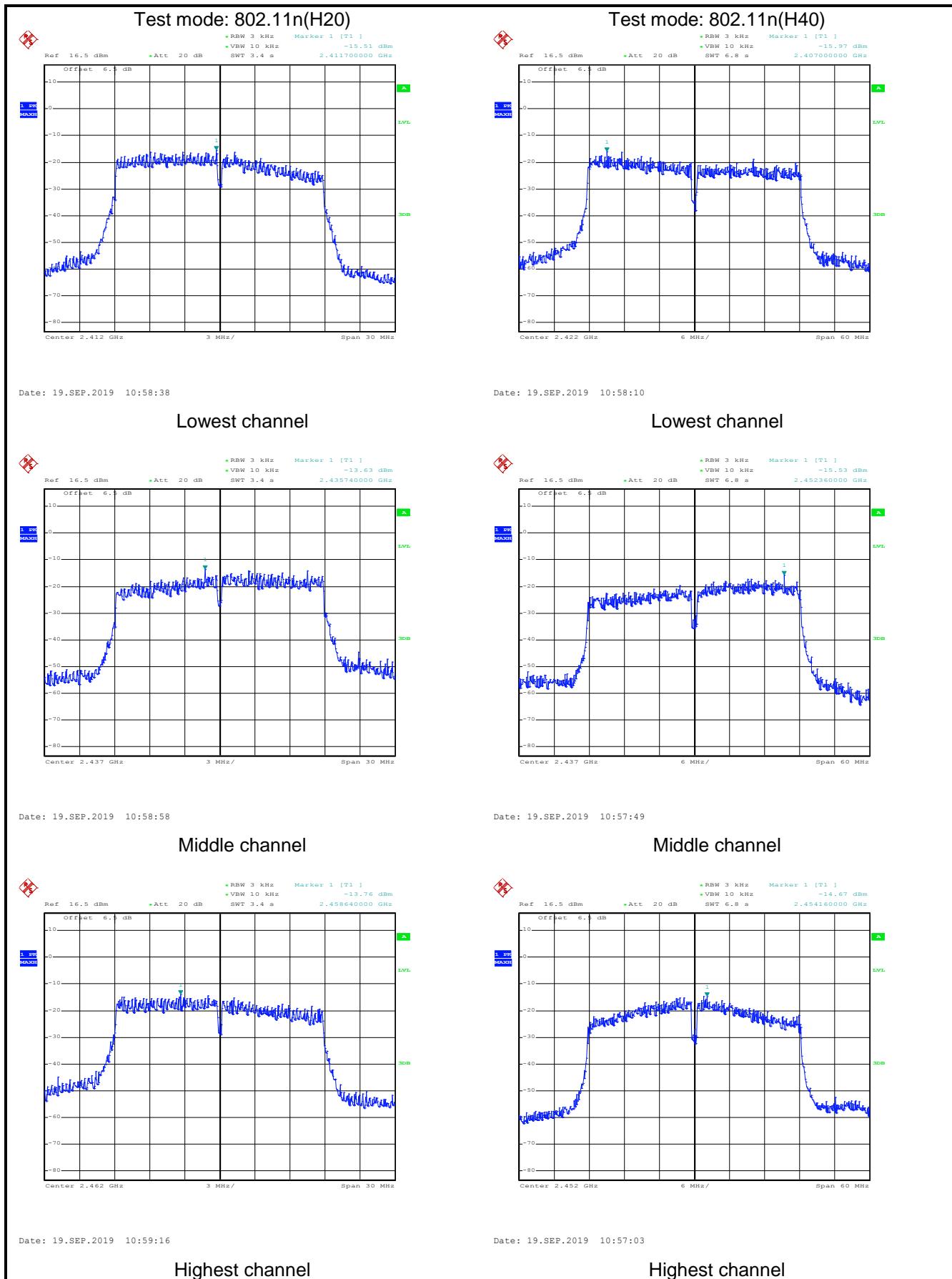


Date: 19.SEP.2019 11:01:22

Highest channel

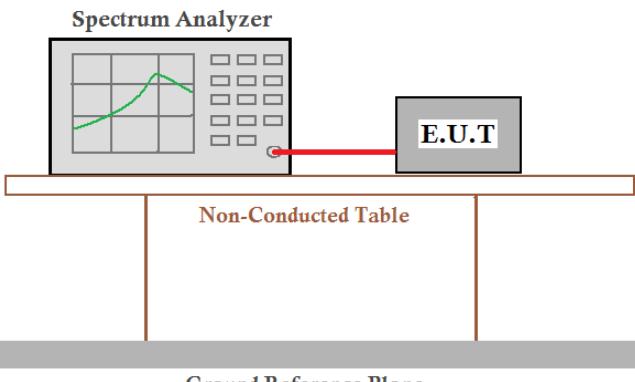
Date: 19.SEP.2019 11:00:21

Highest channel



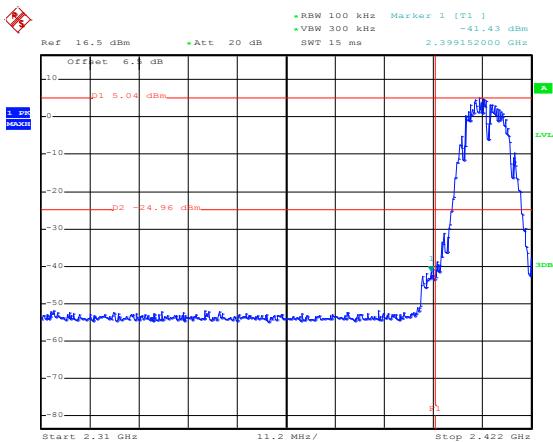
## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 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.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

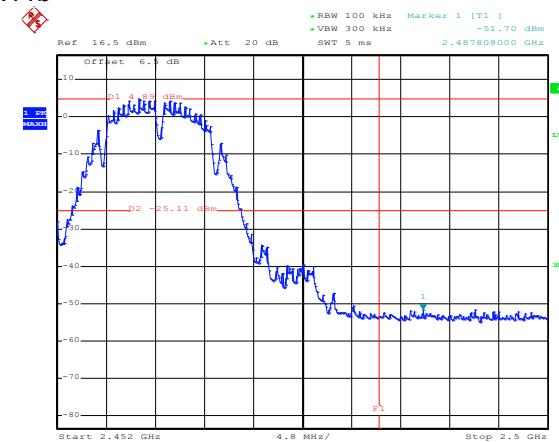
Test plot as follows:

802.11b



Date: 19.SEP.2019 11:18:49

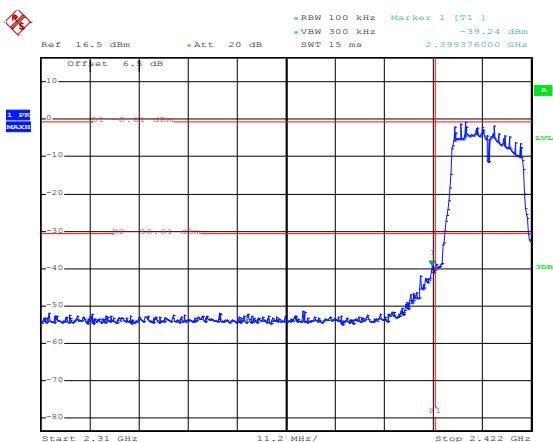
Lowest channel



Date: 19.SEP.2019 11:02:59

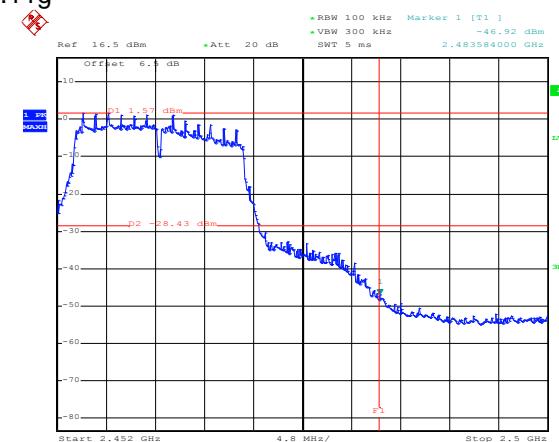
Highest channel

802.11g



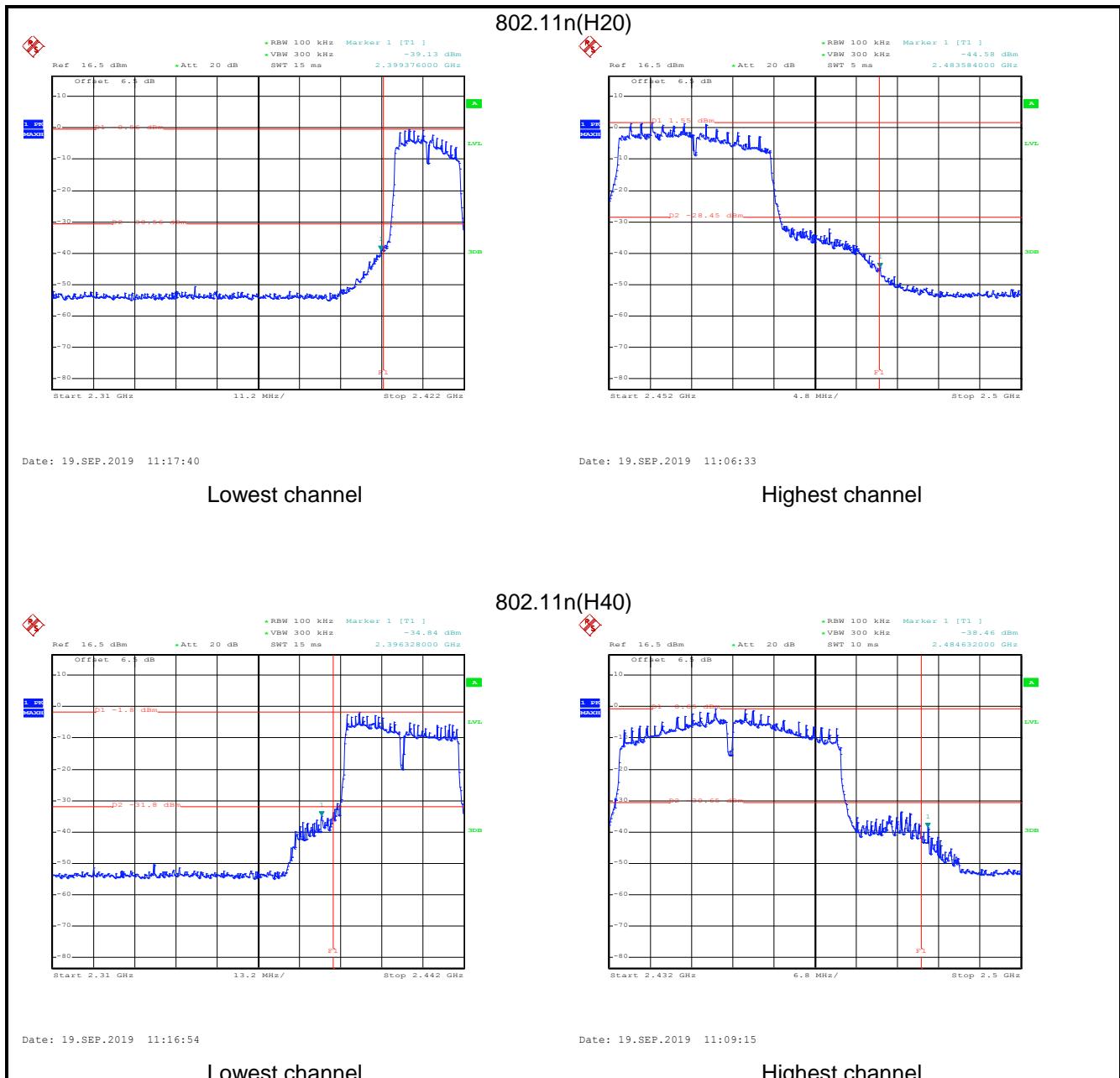
Date: 19.SEP.2019 11:18:14

Lowest channel

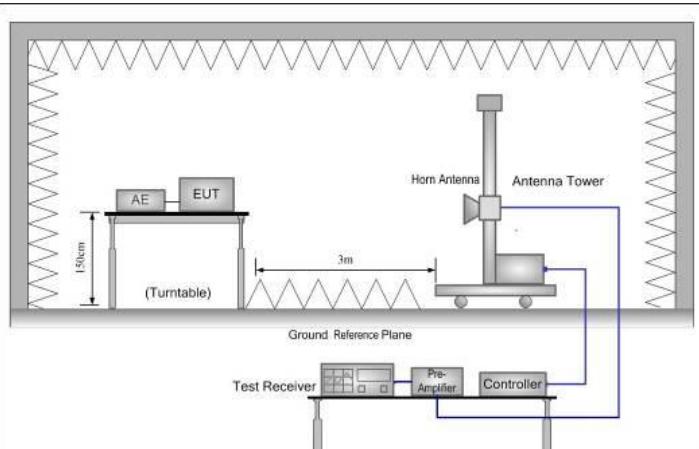


Date: 19.SEP.2019 11:03:49

Highest channel

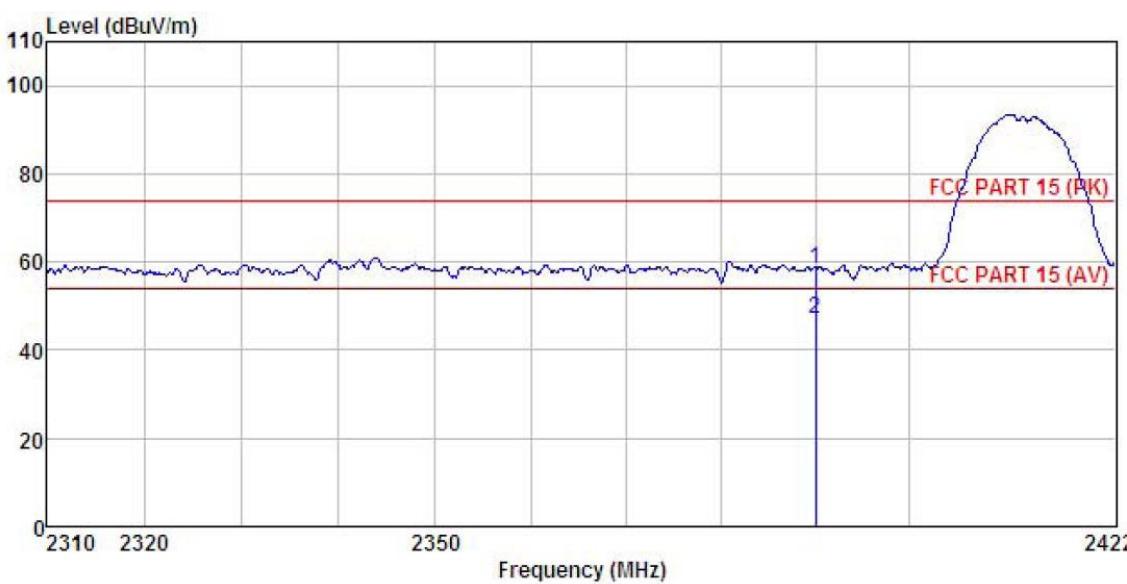


### 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Frequency Range:	2.3GHz to 2.5GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		RMS	1MHz	3MHz	Average Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	Above 1GHz	54.00		Average Value					
		74.00		Peak Value					
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>								
Test setup:									
Test Instruments:	Refer to section 5.9 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Passed								

## 802.11b mode:

<b>Product Name:</b>	5.7 inch smartphone		<b>Product model:</b>	Eternity G57L	
<b>Test By:</b>	Janet		<b>Test mode:</b>	802.11b Tx mode	
<b>Test Channel:</b>	Lowest channel		<b>Polarization:</b>	Vertical	
<b>Test Voltage:</b>	AC 120/60Hz		<b>Environment:</b>	Temp: 24°C Huni: 57%	

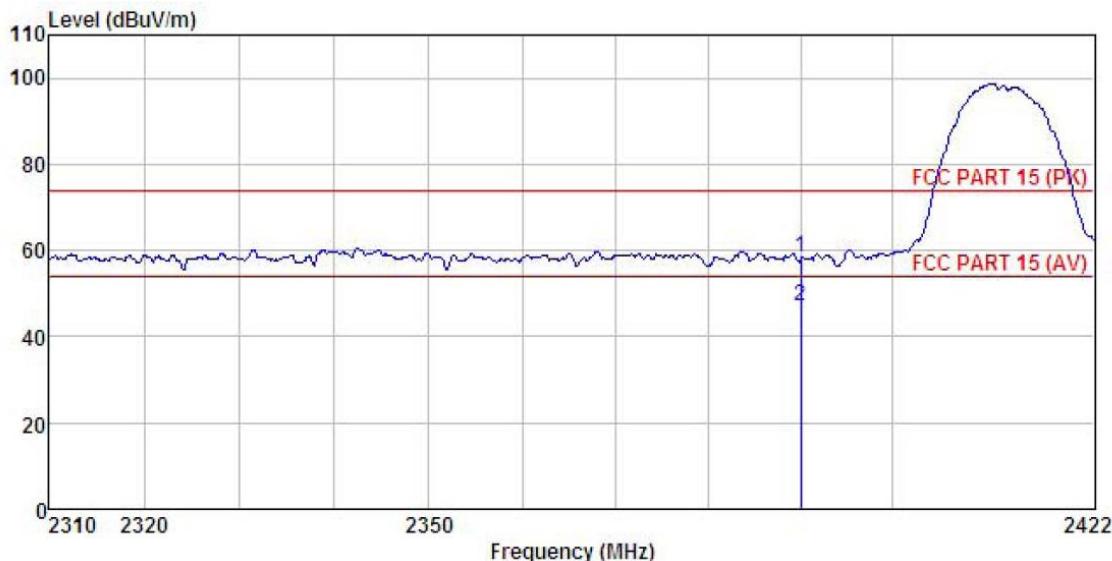
Freq	Read Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Line Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2390.000	25.00	27.07	4.69	0.00	58.44	74.00	-15.56	Peak
2 2390.000	13.72	27.07	4.69	0.00	47.16	54.00	-6.84	Average

**Remark:**

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

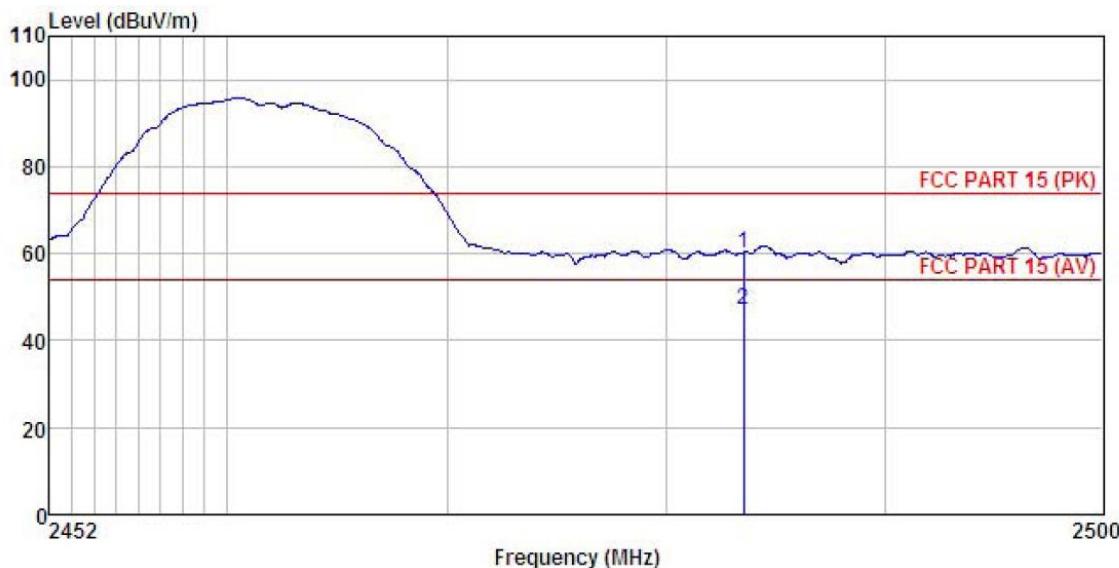


Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2390.000	24.91	27.08	4.69	0.00	58.36	74.00	-15.64 Peak
2 2390.000	13.83	27.08	4.69	0.00	47.28	54.00	-6.72 Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

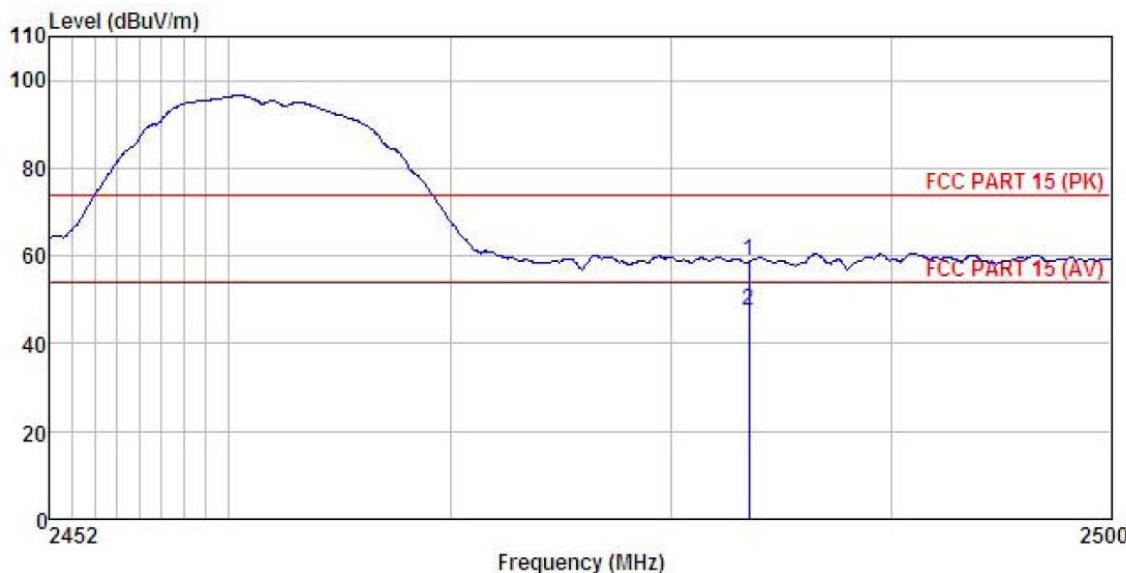


Freq MHz	Read	Antenna	Cable	Preamp	Limit Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
	Level	Factor	Loss	Factor				
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	26.40	27.36	4.81	0.00	60.27	74.00	-13.73 Peak
2	2483.500	13.36	27.36	4.81	0.00	47.23	54.00	-6.77 Average

**Remark:**

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11b Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



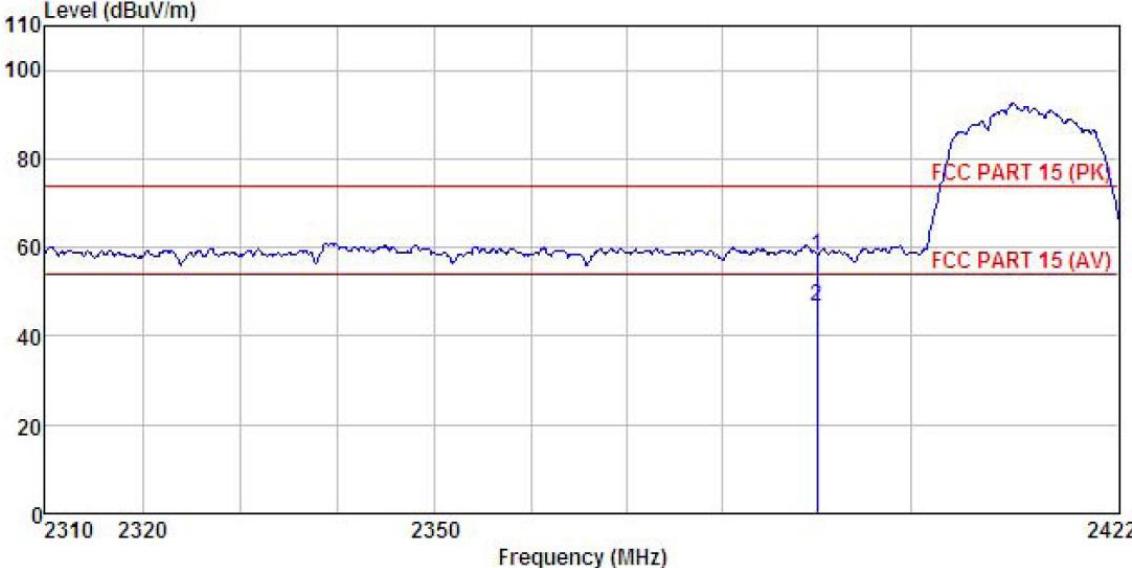
Freq	Read Level MHz	Antenna Factor dBuV	Cable Loss dB	Preamplifier Factor dB	Line Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
1	2483.500	24.85	27.35	4.81	0.00	58.71	74.00	-15.29 Peak
2	2483.500	13.58	27.35	4.81	0.00	47.44	54.00	-6.56 Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 802.11g mode:

<b>Product Name:</b>	5.7 inch smartphone		<b>Product model:</b>	Eternity G57L	
<b>Test By:</b>	Janet		<b>Test mode:</b>	802.11g Tx mode	
<b>Test Channel:</b>	Lowest channel		<b>Polarization:</b>	Vertical	
<b>Test Voltage:</b>	AC 120/60Hz		<b>Environment:</b>	Temp: 24°C Huni: 57%	

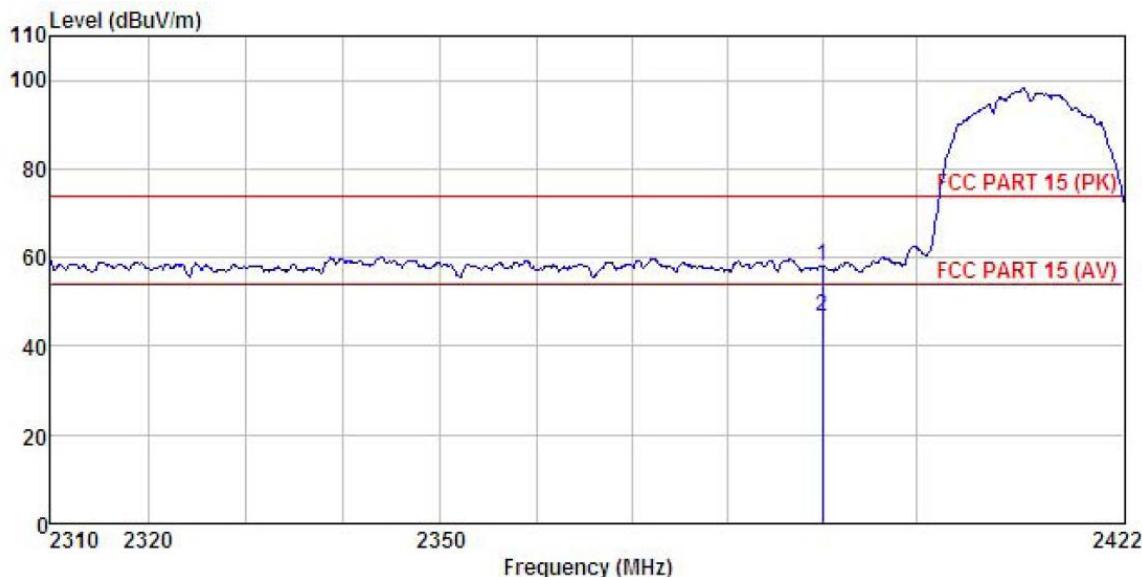
  

  

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Line Limit	Over Line Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2390.000	24.76	27.07	4.69	0.00	58.20	74.00	-15.80 Peak
2 2390.000	13.31	27.07	4.69	0.00	46.75	54.00	-7.25 Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

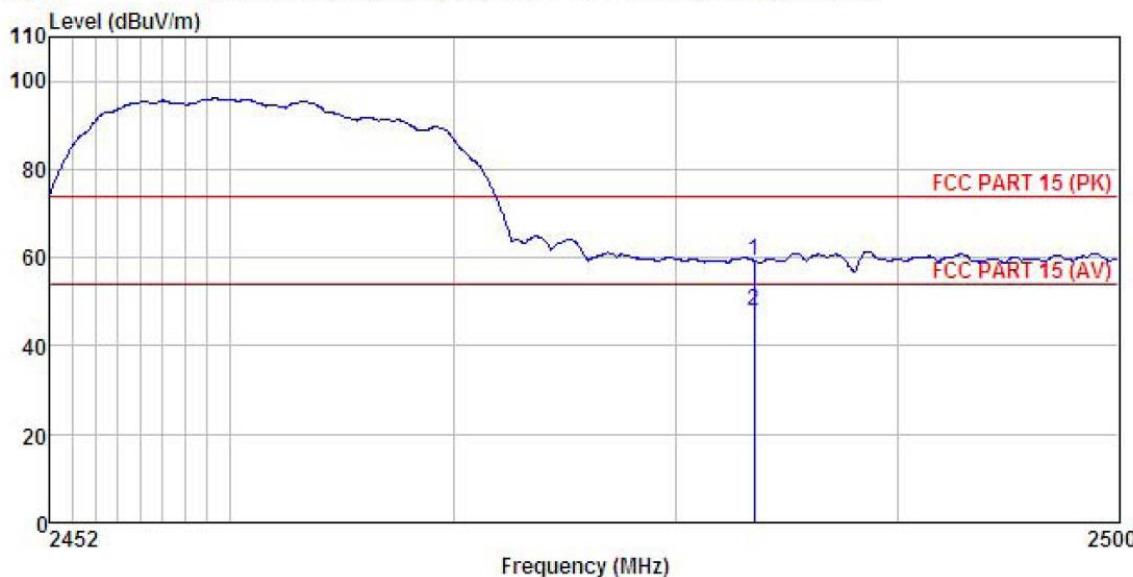


Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Over Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	24.69	27.08	4.69	0.00	58.14	74.00	-15.86 Peak
2	2390.000	13.29	27.08	4.69	0.00	46.74	54.00	-7.26 Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

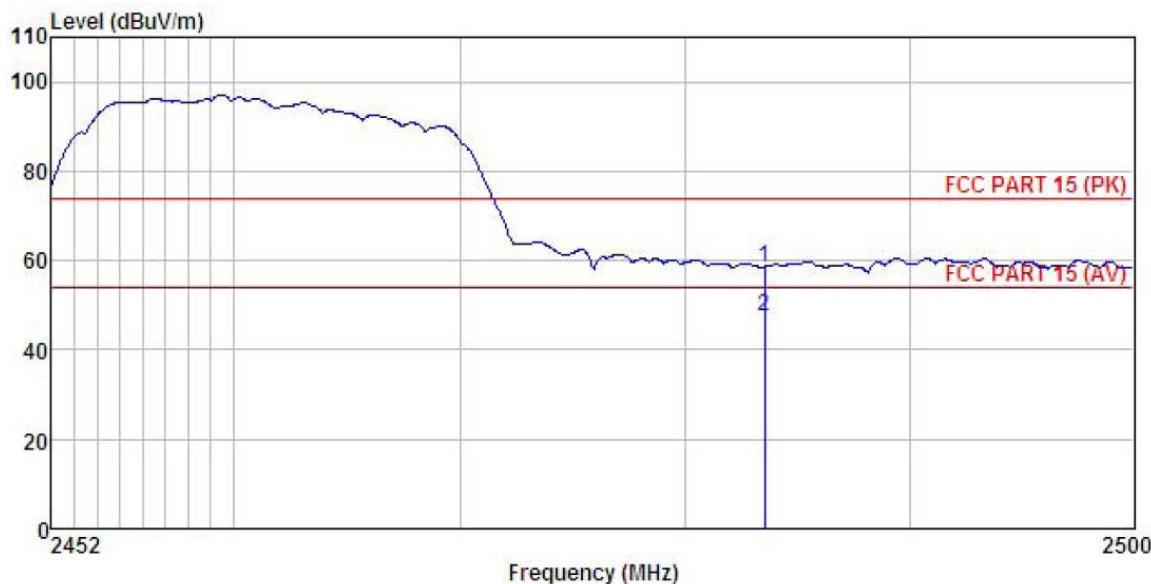


Freq	Read Level MHz	Antenna Factor dB	Cable Loss Factor dB	Preamp Level dB	Line Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
1	2483.500	25.36	27.36	4.81	0.00	59.23	74.00	-14.77 Peak
2	2483.500	13.93	27.36	4.81	0.00	47.80	54.00	-6.20 Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11g Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



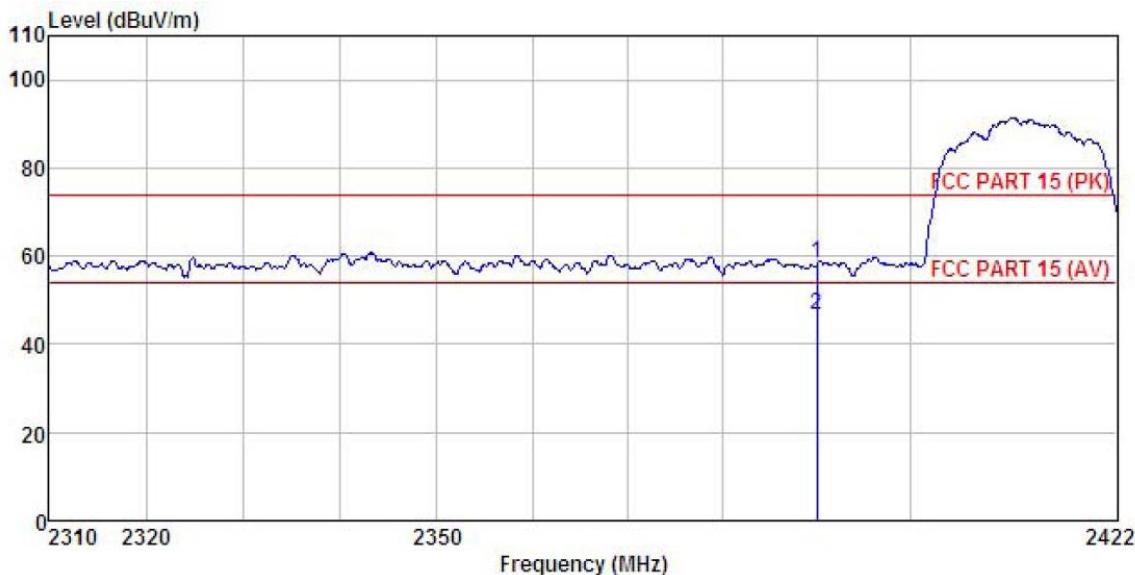
Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Over Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2483.500	24.72	27.35	4.81	0.00	58.58	74.00	-15.42	Peak
2 2483.500	13.63	27.35	4.81	0.00	47.49	54.00	-6.51	Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 802.11n(HT20):

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11n(HT20) Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

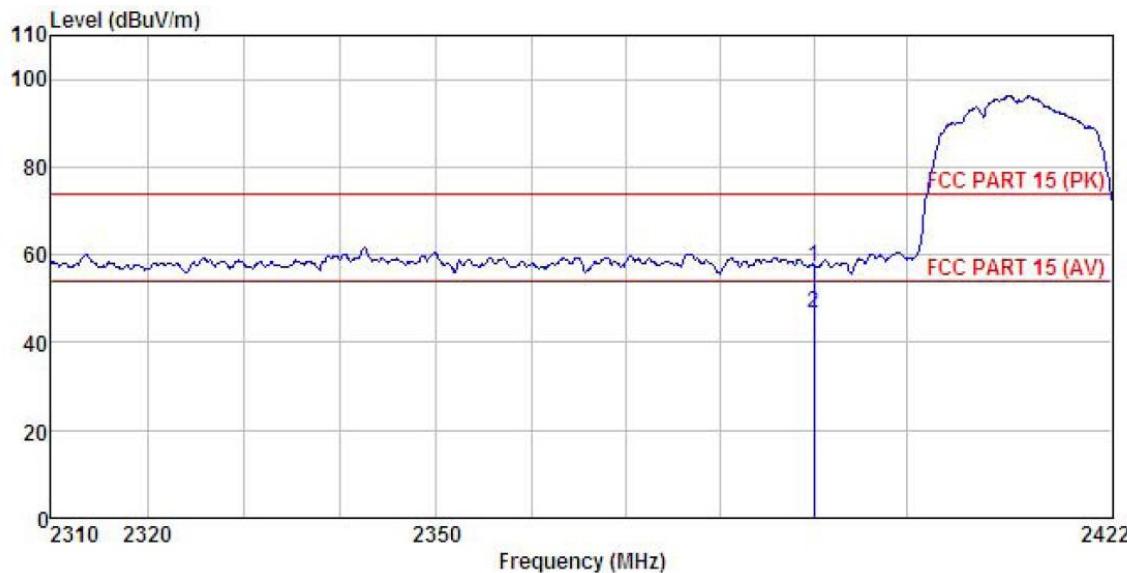


Freq	Read Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2390.000	24.93	27.07	4.69	0.00	58.37	74.00	-15.63	Peak
2 2390.000	13.28	27.07	4.69	0.00	46.72	54.00	-7.28	Average

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11n(HT20) Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

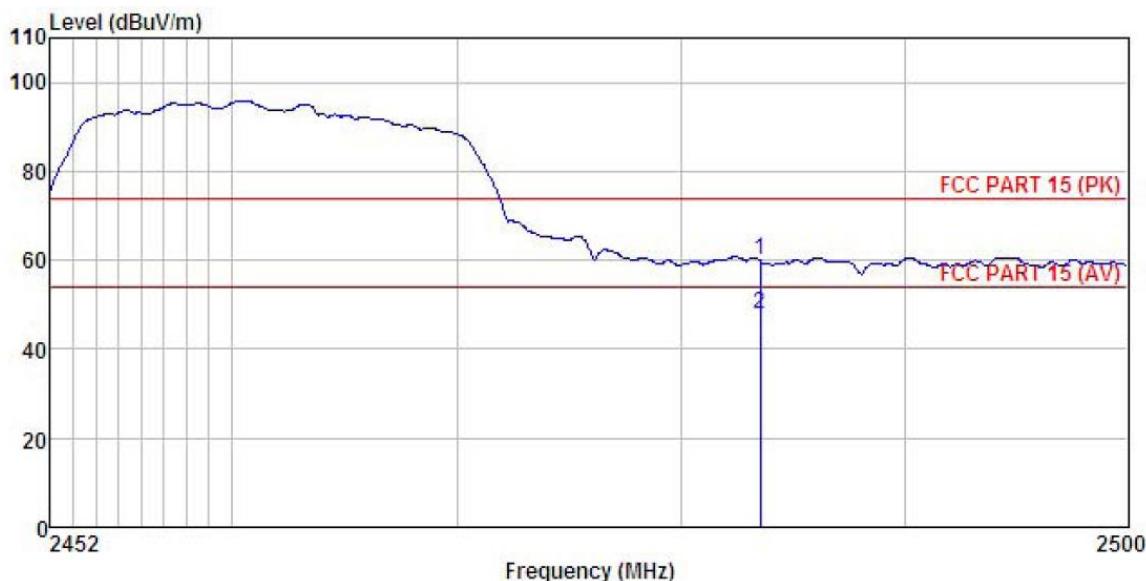


Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Line dB	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV/m	dB	
1	2390.000	23.81	27.08	4.69	0.00	57.26	74.00	-16.74	Peak
2	2390.000	13.09	27.08	4.69	0.00	46.54	54.00	-7.46	Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11n(HT20) Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

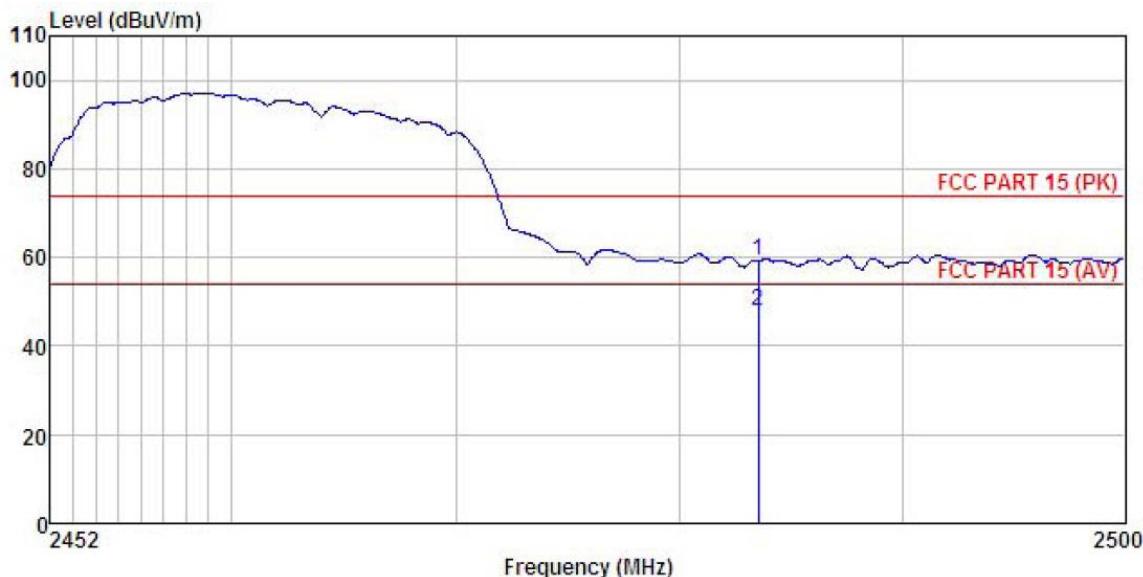


Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Line	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	26.03	27.36	4.81	0.00	59.90	74.00	-14.10 Peak
2	2483.500	13.83	27.36	4.81	0.00	47.70	54.00	-6.30 Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11n(HT20) Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



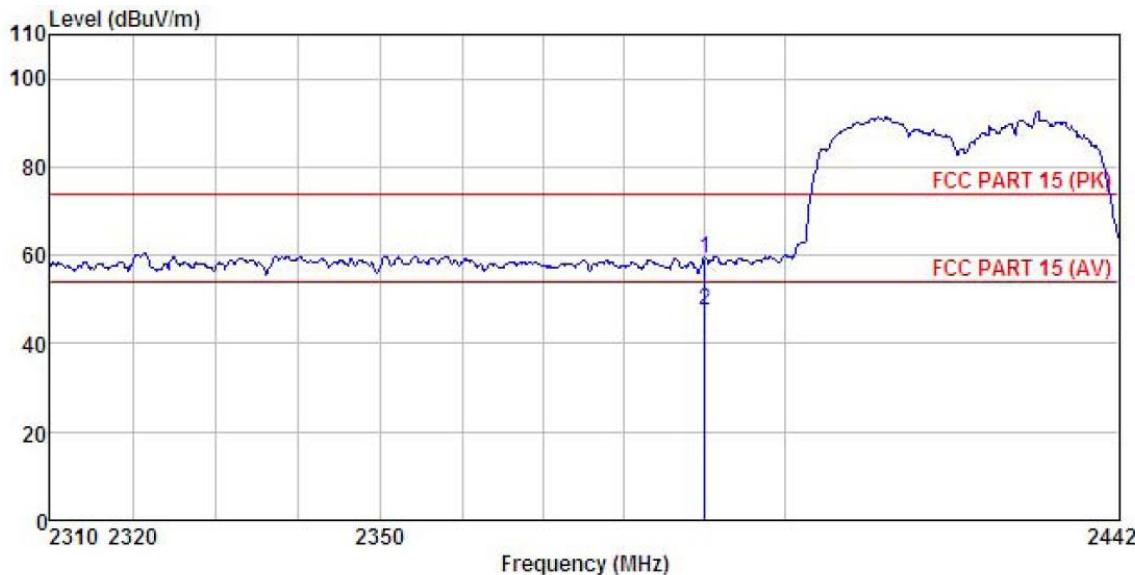
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	25.30	27.35	4.81	0.00	59.16	74.00	-14.84 Peak
2	2483.500	13.86	27.35	4.81	0.00	47.72	54.00	-6.28 Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 802.11n(HT40):

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11n(HT40) Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

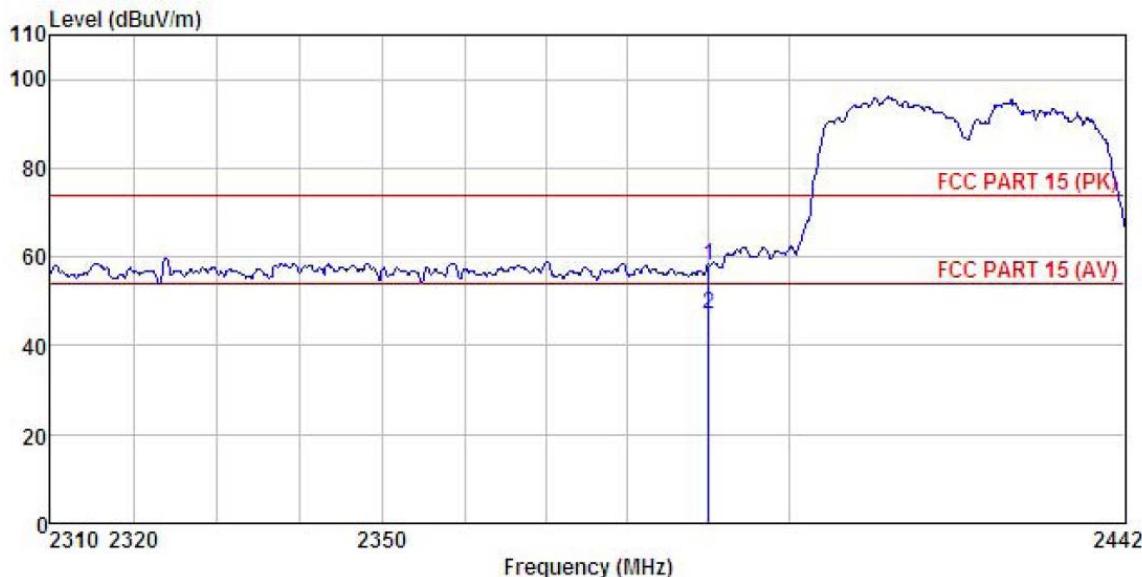


Freq	Read Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Line Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	25.74	27.07	4.69	0.00	59.18	74.00	-14.82 Peak
2	2390.000	13.85	27.07	4.69	0.00	47.29	54.00	-6.71 Average

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11n(HT40) Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

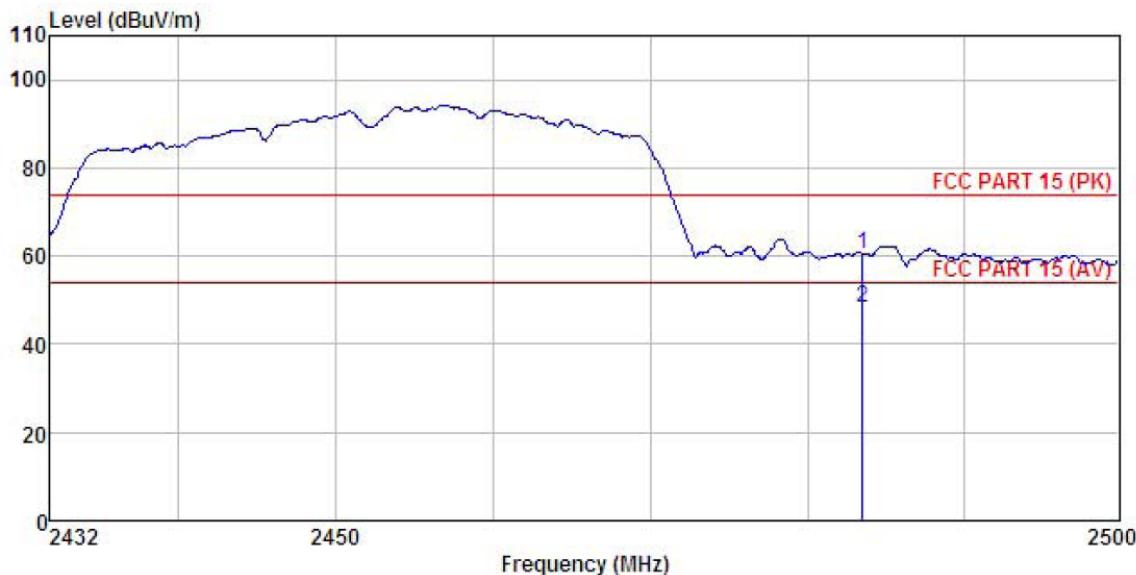


Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2390.000	24.57	27.08	4.69	0.00	58.02	74.00	-15.98	Peak
2 2390.000	13.56	27.08	4.69	0.00	47.01	54.00	-6.99	Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11n(HT40) Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

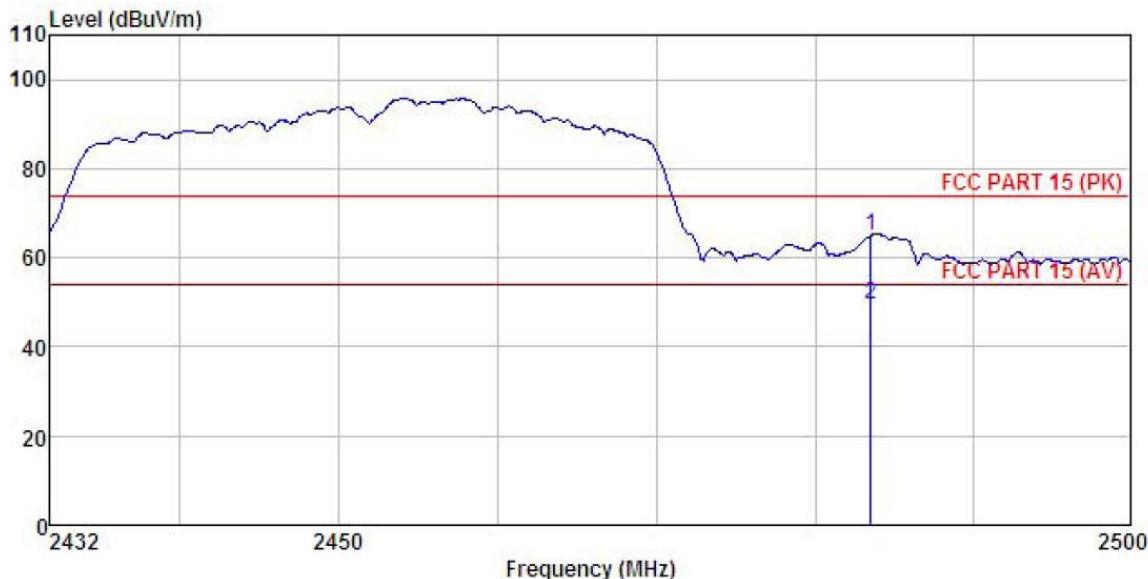


Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1 2483.500	26.42	27.36	4.81	0.00	60.29	74.00	-13.71	Peak	
2 2483.500	14.31	27.36	4.81	0.00	48.18	54.00	-5.82	Average	

**Remark:**

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	802.11n(HT40) Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



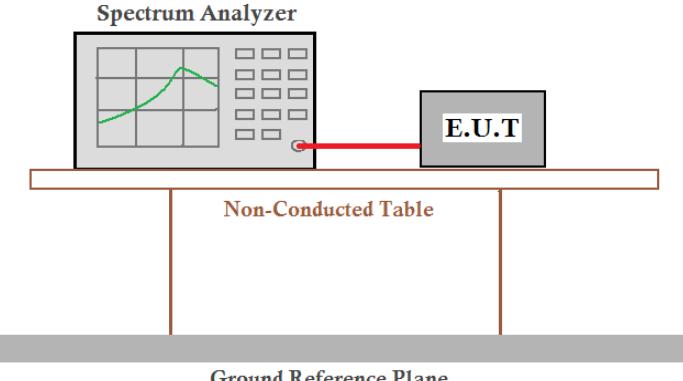
Freq	Read Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2483.500	31.28	27.35	4.81	0.00	65.14	74.00	-8.86	Peak
2 2483.500	15.61	27.35	4.81	0.00	49.47	54.00	-4.53	Average

**Remark:**

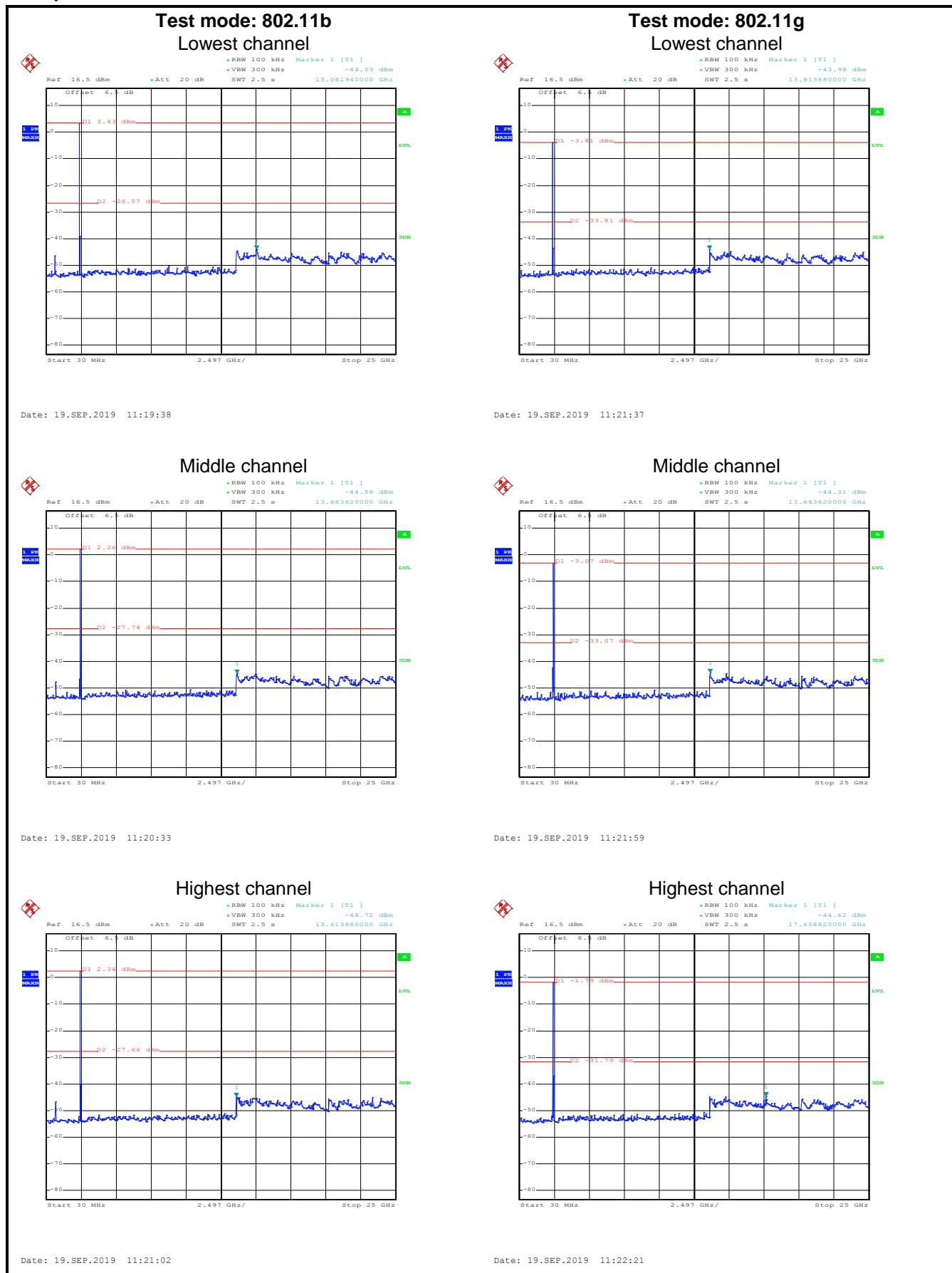
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

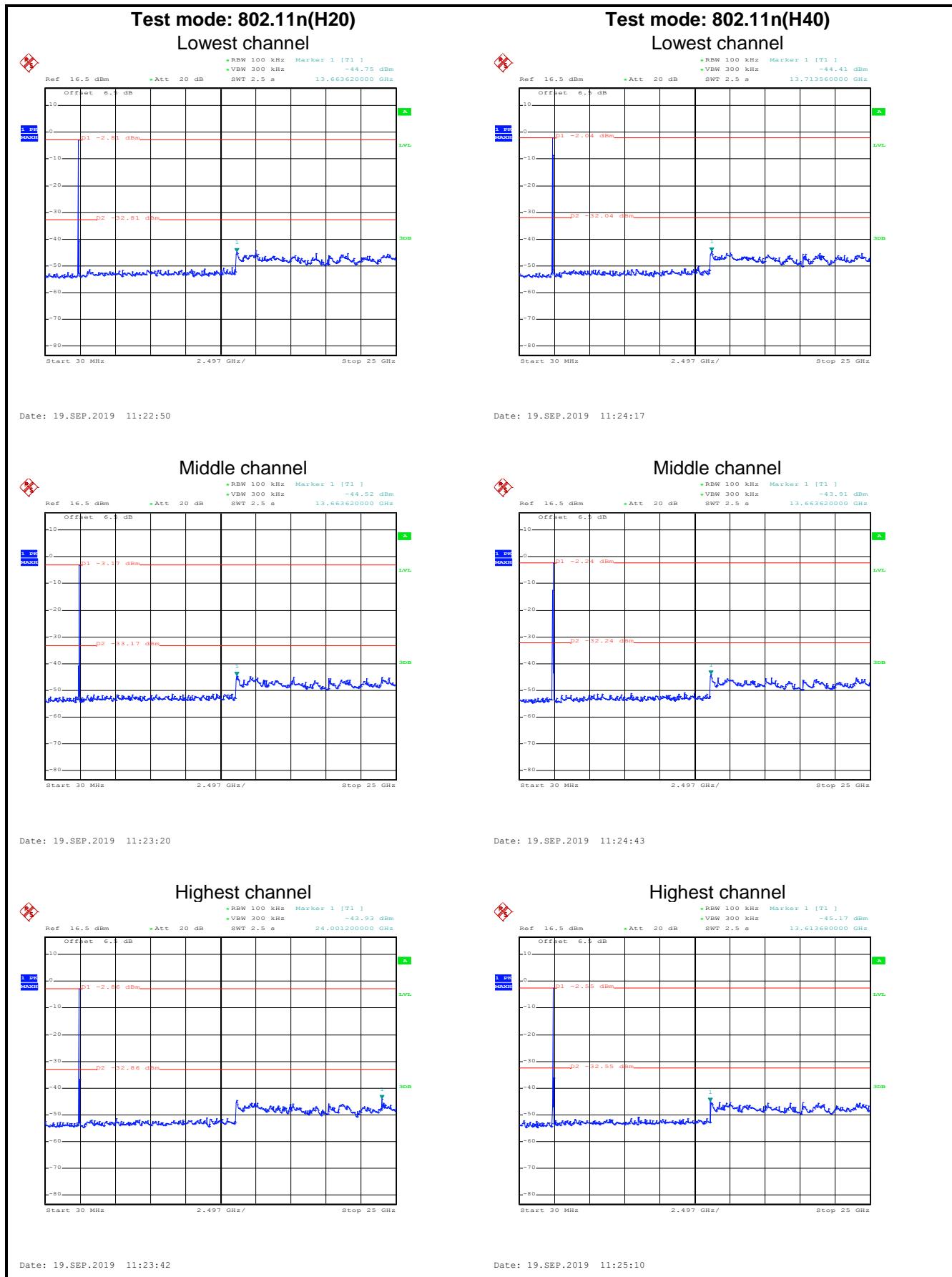
## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

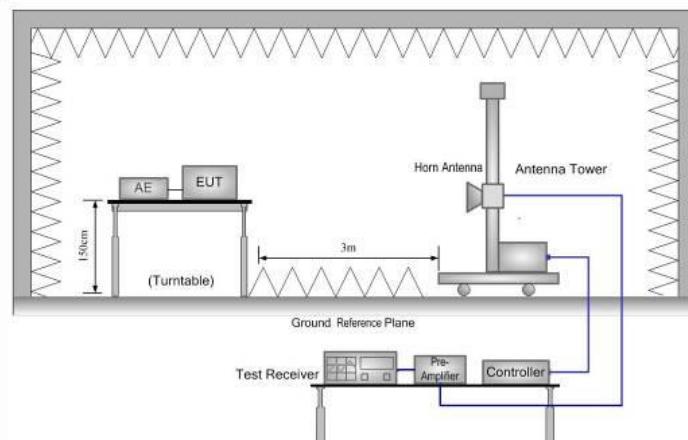
Test plot as follows:



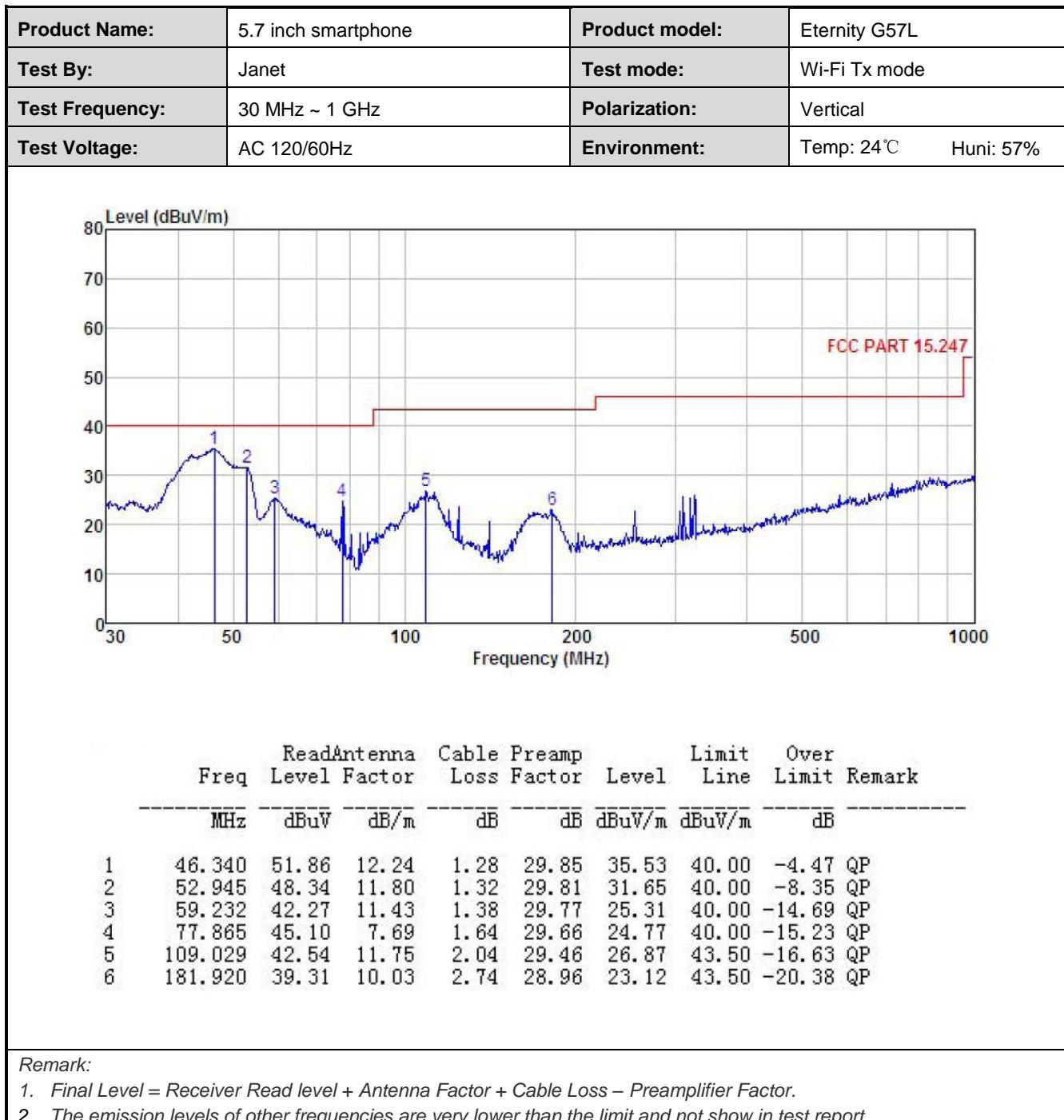


### 6.7.2 Radiated Emission Method

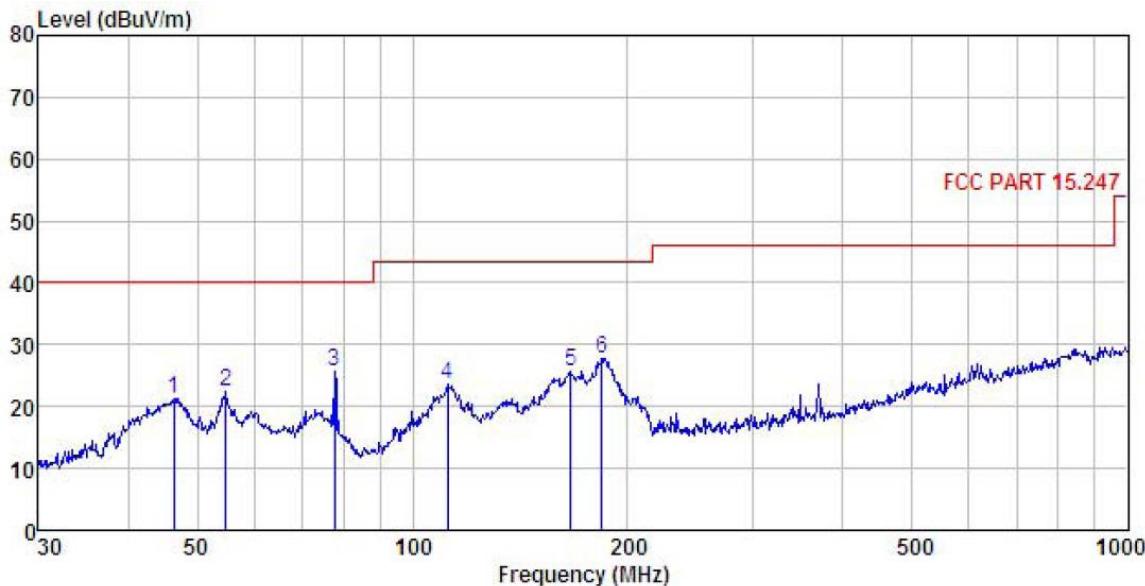
Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Frequency Range:	9kHz to 25GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	RMS	1MHz	3MHz	Average	Value				
	Frequency	Limit (dBuV/m @3m)		Remark					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
	Above 1GHz	54.0		Average Value					
		74.0		Peak Value					
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>								
Test setup:	<p>Below 1GHz</p> <p>Above 1GHz</p>								



Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol style="list-style-type: none"><li>1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li><li>2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.</li></ol>

**Measurement Data (worst case):****Below 1GHz:**

<b>Product Name:</b>	5.7 inch smartphone	<b>Product model:</b>	Eternity G57L
<b>Test By:</b>	Janet	<b>Test mode:</b>	Wi-Fi Tx mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



Freq MHz	Read	Antenna	Cable	Preamp	Limit Level dBuV/m	Line Level dBuV/m	Over Line Limit dB	Over Limit Remark
	Level dBuV	Factor	Loss dB	Factor dB				
1 46.340	37.73	12.24	1.28	29.85	21.40	40.00	-18.60	QP
2 54.835	39.36	11.60	1.36	29.80	22.52	40.00	-17.48	QP
3 77.865	46.00	7.69	1.64	29.66	25.67	40.00	-14.33	QP
4 112.131	39.54	11.49	2.08	29.44	23.67	43.50	-19.83	QP
5 166.651	42.57	9.52	2.64	29.08	25.65	43.50	-17.85	QP
6 183.844	43.88	10.11	2.75	28.94	27.80	43.50	-15.70	QP

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## Above 1GHz

802.11b								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	47.83	30.94	6.81	41.82	43.76	74.00	-30.24	Vertical
4824.00	48.36	30.94	6.81	41.82	44.29	74.00	-29.71	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	36.42	30.94	6.81	41.82	32.35	54.00	-21.65	Vertical
4824.00	37.74	30.94	6.81	41.82	33.67	54.00	-20.33	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	47.97	31.20	6.85	41.84	44.18	74.00	-29.82	Vertical
4874.00	48.65	31.20	6.85	41.84	44.86	74.00	-29.14	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	37.22	31.20	6.85	41.84	33.43	54.00	-20.57	Vertical
4874.00	38.16	31.20	6.85	41.84	34.37	54.00	-19.63	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	48.02	31.46	6.89	41.86	44.51	74.00	-29.49	Vertical
4924.00	49.13	31.46	6.89	41.86	45.62	74.00	-28.38	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	38.26	31.46	6.89	41.86	34.75	54.00	-19.25	Vertical
4924.00	39.05	31.46	6.89	41.86	35.54	54.00	-18.46	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11g								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	47.99	30.94	6.81	41.82	43.92	74.00	-30.08	Vertical
4824.00	49.32	30.94	6.81	41.82	45.25	74.00	-28.75	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	37.35	30.94	6.81	41.82	33.28	54.00	-20.72	Vertical
4824.00	38.16	30.94	6.81	41.82	34.09	54.00	-19.91	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	48.37	31.20	6.85	41.84	44.58	74.00	-29.42	Vertical
4874.00	49.16	31.20	6.85	41.84	45.37	74.00	-28.63	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	38.34	31.20	6.85	41.84	34.55	54.00	-19.45	Vertical
4874.00	39.55	31.20	6.85	41.84	35.76	54.00	-18.24	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	48.56	31.46	6.89	41.86	45.05	74.00	-28.95	Vertical
4924.00	49.78	31.46	6.89	41.86	46.27	74.00	-27.73	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	38.95	31.46	6.89	41.86	35.44	54.00	-18.56	Vertical
4924.00	39.76	31.46	6.89	41.86	36.25	54.00	-17.75	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	48.67	36.06	6.81	41.82	49.72	74.00	-24.28	Vertical
4824.00	49.33	36.06	6.81	41.82	50.38	74.00	-23.62	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	37.86	36.06	6.81	41.82	38.91	54.00	-15.09	Vertical
4824.00	38.58	36.06	6.81	41.82	39.63	54.00	-14.37	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	49.46	36.32	6.85	41.84	50.79	74.00	-23.21	Vertical
4874.00	49.33	36.32	6.85	41.84	50.66	74.00	-23.34	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	38.69	36.32	6.85	41.84	40.02	54.00	-13.98	Vertical
4874.00	40.13	36.32	6.85	41.84	41.46	54.00	-12.54	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	49.50	36.58	6.89	41.86	51.11	74.00	-22.89	Vertical
4924.00	50.28	36.58	6.89	41.86	51.89	74.00	-22.11	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	39.21	36.58	6.89	41.86	40.82	54.00	-13.18	Vertical
4924.00	39.88	36.58	6.89	41.86	41.49	54.00	-12.51	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	49.12	36.06	6.81	41.82	50.17	74.00	-23.83	Vertical
4844.00	49.55	36.06	6.81	41.82	50.60	74.00	-23.40	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	38.41	36.06	6.81	41.82	39.46	54.00	-14.54	Vertical
4844.00	39.22	36.06	6.81	41.82	40.27	54.00	-13.73	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	49.67	36.32	6.85	41.84	51.00	74.00	-23.00	Vertical
4874.00	50.40	36.32	6.85	41.84	51.73	74.00	-22.27	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	39.14	36.32	6.85	41.84	40.47	54.00	-13.53	Vertical
4874.00	40.58	36.32	6.85	41.84	41.91	54.00	-12.09	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	49.64	36.45	6.87	41.85	51.11	74.00	-22.89	Vertical
4904.00	49.31	36.45	6.87	41.85	50.78	74.00	-23.22	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	39.87	36.45	6.87	41.85	41.34	54.00	-12.66	Vertical
4904.00	39.25	36.45	6.87	41.85	40.72	54.00	-13.28	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.