



# TEST REPORT

**FCC ID: 2AFNIG710**

Applicant : BU TECHNOLOGY SAS  
Address : Calle 16# 5-56 centro comercial el diamante 2 local 201 cali Colombia

**Equipment under Test (EUT):**

Name : Tablet PC  
Model : G710

**Standards** : FCC PART 15, SUBPART C: 2014 (Section 15.247)  
ANSI C63.4:2014; ANSI C63.10:2013

**Report No** : T1850961 05  
**Date of Test** : July28- August 20, 2015  
**Date of Issue** : August 21, 2015  
**Test Result** : PASS

<b>Test Result :</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT complied with the standards specified above  
Authorized Signature

(Mark Zhu)  
Manager


The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. 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. Any mention of Shenzhen Alpha Product Testing Co., Ltd. Or test done by Shenzhen Alpha Product Testing Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd. Approvals in writing.

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# 1 General Information

## 1.1 Description of Device (EUT)

Trade Name : 

EUT : TABLET PC

Model No. : G710

DIFF : N/A

Antenna Type : Integrated Antenna, Maximum Gain is 0dBi for WLAN

Operation Frequency : IEEE 802.11b/g: 2412MHz-2462MHz  
IEEE 802.11n HT20: 2412MHz-2462MHz  
IEEE 802.11n HT40: 2422MHz-2452MHz  
IEEE 802.11b/g: 11 Channels

Channel number : IEEE 802.11n HT20: 11 Channels  
IEEE 802.11n HT40: 7 Channels  
IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

Modulation type : IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)  
IEEE 802.11n : OFDM(64QAM, 16QAM, QPSK, BPSK)

Power Supply : DC 3.7V Supply by battery

Adapter : Manufacturer: NIL  
Model No.: XJX-001-13

Applicant : BU TECHNOLOGY SAS

Address : Calle 16# 5-56 centro comercial el diamante 2 local 201 cali Colombia

Manufacturer : SHENZHEN YEPO TIME ELECTRONICS CO.,LTD

Address : 2F,Bldg B, Chuangye Park, Phoenix 3th Industrial Zone,  
Fuyong Street, Bao'an District, Shenzhen, China.

## 1.2 Description of Test Facility

Shenzhen Alpha Product Testing Co., Ltd  
Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road,  
Bao'an, Shenzhen, China

August 11, 2014 File on Federal Communication Commission  
Registration Number: 203110

July 18, 2014 Certificated by IC  
Registration Number: 12135A

## 2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2015.01.19	1Year
Spectrum analyzer	Agilent	E4407B	MY46185649	2015.01.19	1Year
Receiver	R&S	ESCI	1166.5950K03-1011	2015.01.19	1Year
Receiver	R&S	ESCI	101202	2015.01.19	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2015.01.21	1Year
Horn Antenna	EMCO	3115	640201028-06	2015.01.21	1Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2015.01.21	1Year
Cable	Resenberger	N/A	No.1	2015.01.19	1Year
Cable	SCHWARZBECK	N/A	No.2	2015.01.19	1Year
Cable	SCHWARZBECK	N/A	No.3	2015.01.19	1Year
Pre-amplifier	Schwarzbeck	BBV9743	9743-019	2015.01.19	1Year
Pre-amplifier	R&S	AFS33-18002650-30-8P-44	SEL0080	2015.01.19	1Year
Base station	Agilent	E5515C	GB44300243	2015.01.19	1 Year
Temperature controller	Terchy	MHQ	120	2015.01.19	1Year
Power divider	Anritsu	K240C	020346	2015.01.19	1 Year
Signal Generator	HP	83732B	VS3449051	2015.01.19	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	2015.01.19	1Year
Power sensor	Anritsu	ML2491A	32516	2015.01.19	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2016.01.19	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2016.01.19	1 Year

### 3 Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard ANSI C63.4:2014 using a 50 u H LISN. Both Lines were observed. The bandwidth of the receiver was 10 kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

**RADIATION INTERFERENCE:** The test procedure used was ANSI Standard ANSI C63.4:2014 using an ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB= 44.46 dBuV/m @ 3m

ANSI STANDARD ANSI C63.4:2014 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard ANSI C63.4:2014 10.1.7 with the EUT 40 cm from the vertical ground wall.

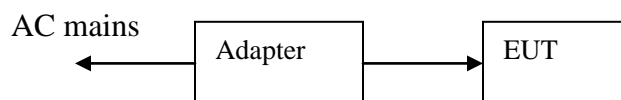
## 4 Summary of Measurement

### 4.1 Summary of test result

Test Item	Test Requirement	Standards Paragraph	Result
Spurious Emission	FCC PART 15:2014	Section 15.247&15.209	Compliance
Conduction Emission	FCC PART 15:2014	Section 15.207	Compliance
Bandwidth Test	FCC PART 15:2014	Section 15.247	Compliance
Peak Power	FCC PART 15:2014	Section 15.247	Compliance
Power Density	FCC PART 15:2014	Section 15.247	Compliance
Band Edge	FCC PART 15:2014	Section 15.247	Compliance
Antenna Requirement	FCC PART 15:2014	Section 15.203	Compliance

Note: The EUT has been tested as an independent unit, and continuously transmitting with maximum power (The adapter was used during Test)

### 4.2 Test connection



### 4.3 Assistant equipment used for test

Description : Adapter  
 Manufacturer : NIL  
 Model No. : XJX-001-13  
 Input : AC 100-240V, 50-60Hz  
 Output : 5.0V DC, 1300mA

### 4.4 Test mode

Duty cycle :100%			
Keeping TX			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11 n/HT20 with 2.4G	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11 n/HT40 with 2.4G	13.5	Low :CH3	2422
	13.5	Middle:CH6	2437
	13.5	High:CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test.			

### 4.5 Channel list

For IEEE 802.11b/g and IEEE 802.11n/HT20 with 2.4G					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH1	2412	CH5	2432	CH9	2452
CH2	2417	CH6	2437	CH10	2457
CH3	2422	CH7	2442	CH11	2462
CH4	2427	CH8	2447		



For IEEE 802.11n/HT40 with 2.4G					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH1	/	CH5	2432	CH9	2452
CH2	/	CH6	2437	/	/
CH3	2422	CH7	2442	/	/
CH4	2427	CH8	2447	/	/

#### 4.6 Test Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

#### 4.7 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	$1 \times 10^{-9}$	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

## 5 Spurious Emission

### 5.1 Radiation Emission

#### 5.1.1 Radiation Emission Limits(15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

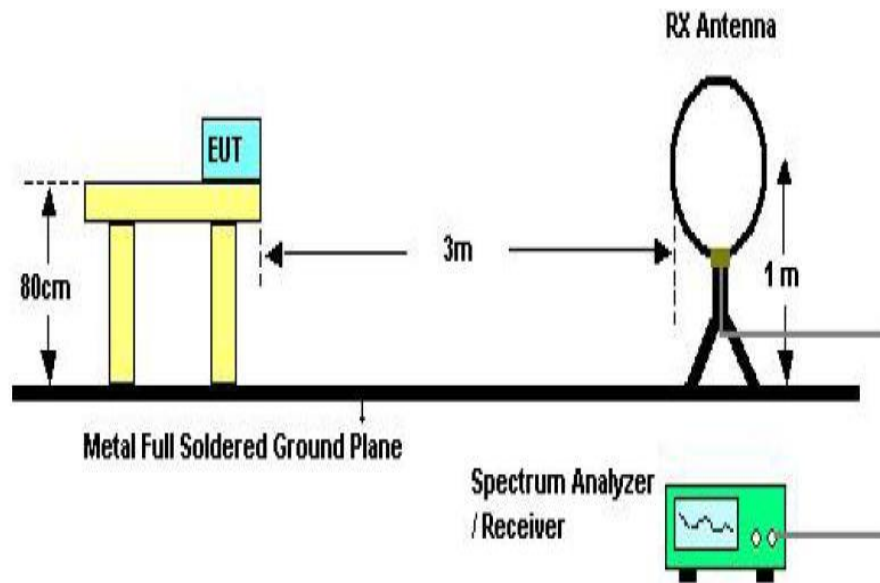
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

**NOTE:**

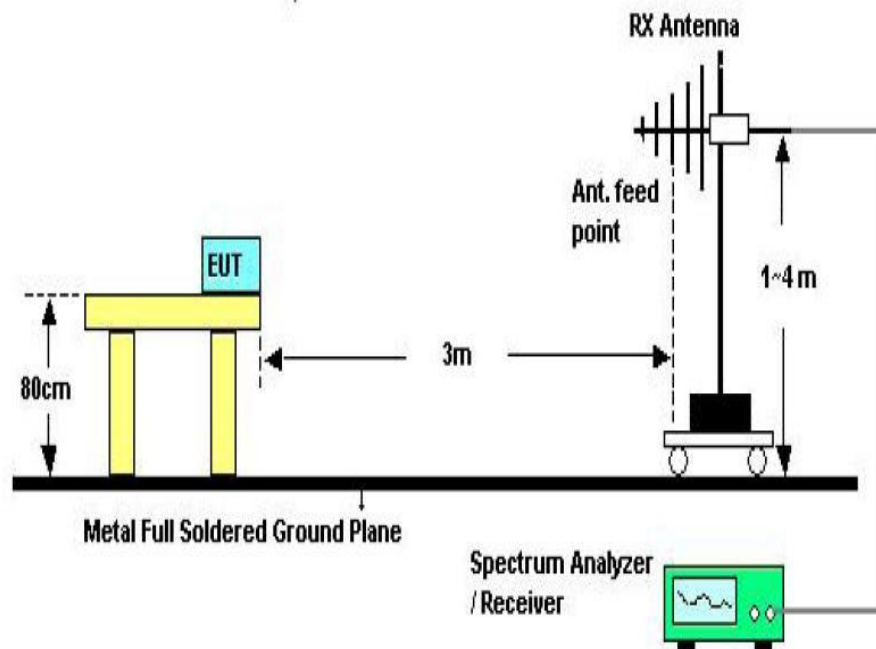
- a) The tighter limit applies at the band edges.
- b)  $\text{Emission Level(dB uV/m)} = 20 \log \text{Emission Level(uv/m)}$

#### 5.1.2 Test Setup

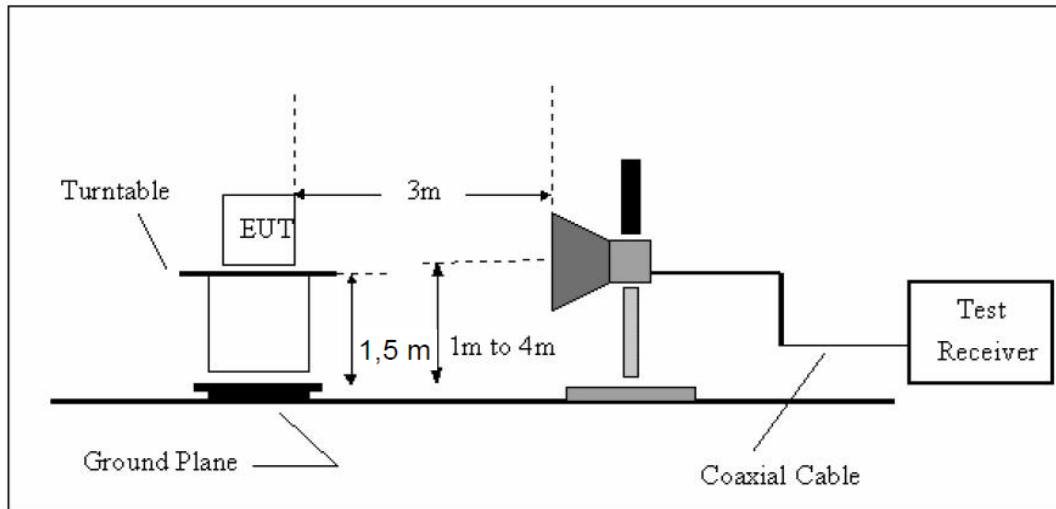
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

### 5.1.3 Test Procedure

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above 1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation
- The Test antenna shall vary between 1m and 4m, both Horizontal and Vertical antenna is set of make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then QP Detector mode premeasured
- If Peak value complies with QP limit below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- For the actual test configuration, please see the test setup photo.

### 5.1.4 Test Equipment Setting For emission test Result

9 kHz~150 kHz	RBW 200Hz	VBW 1 kHz
150 kHz~30 MHz	RBW 9 kHz	VBW 30 kHz
30 MHz~1 GHz	RBW 120 kHz	VBW 300 kHz
Above 1 GHz	RBW 1 MHz	VBW 3 MHz

#### 5.1.5 Test Condition

Continuously transmitting with maximum power.

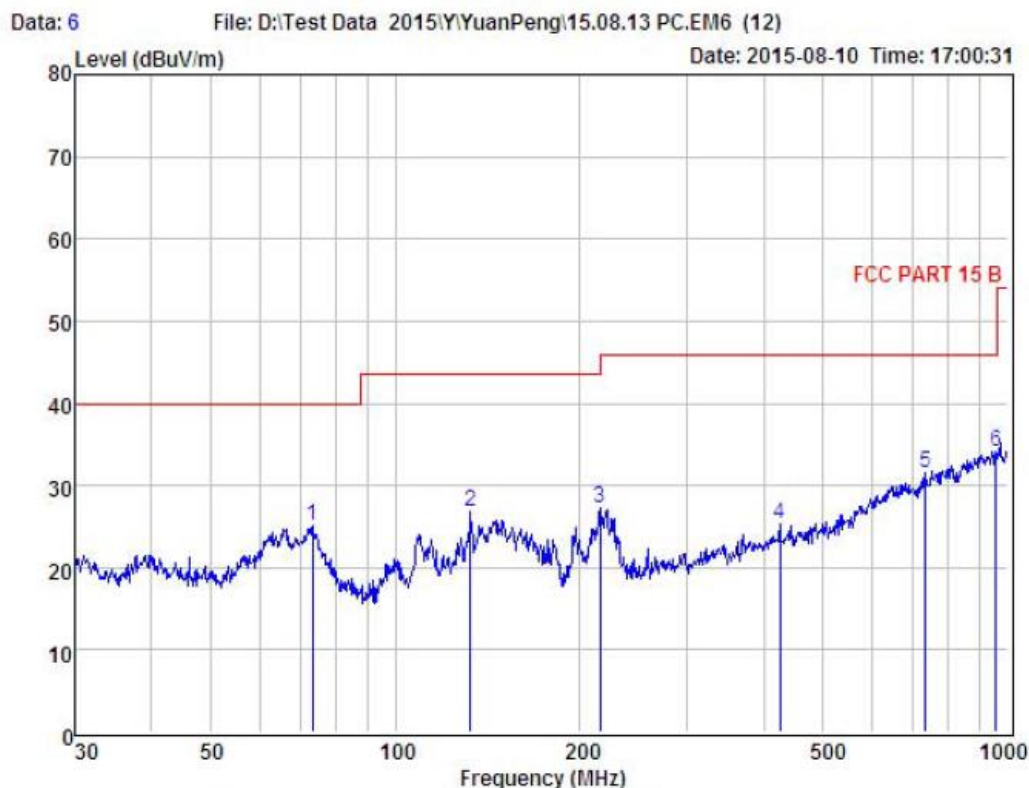
#### 5.1.6 Test Result

We have scanned the 9 kHz from 25GHz to the EUT.

Detailed information please see the following page.

From 9 kHz to 30MHz:      Conclusion: PASS

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



Condition : FCC PART 15 B 3m POL: HORIZONTAL  
 EUT :  
 Model No :  
 Test Mode : WIFI  
 Power :  
 Test Engineer :  
 Remark :  
 Temp : 24.2°C  
 Hum : 54%

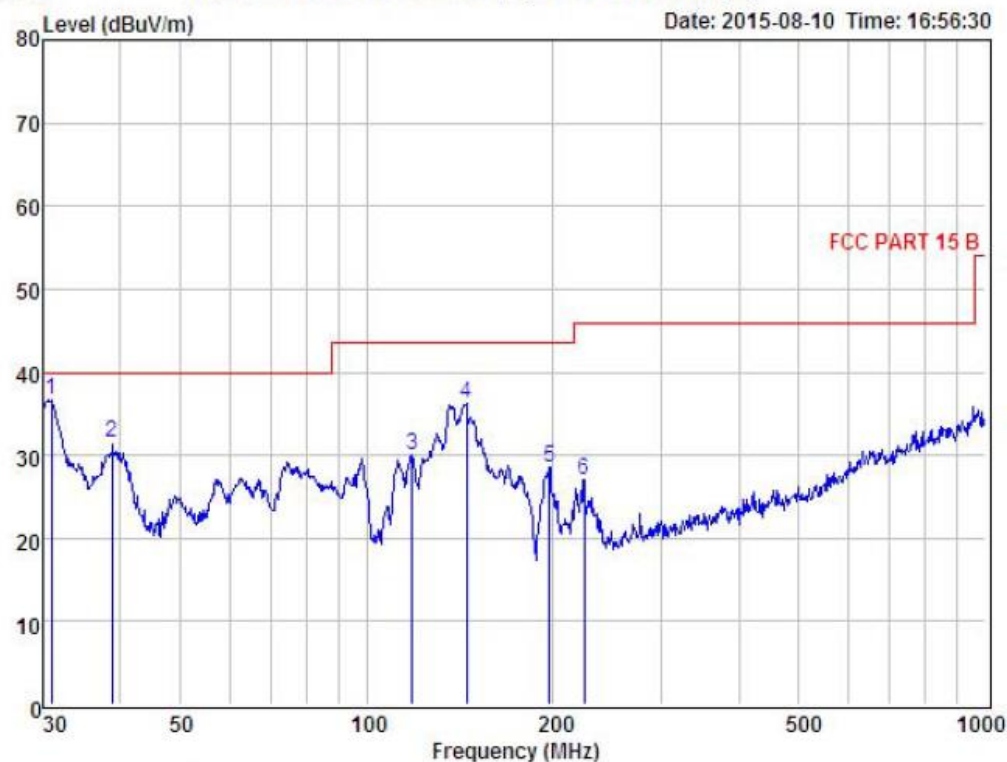
Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	73.36	44.70	10.21	30.12	0.24	25.03	40.00	-14.97	Peak
2	132.69	42.73	12.93	29.44	0.53	26.75	43.50	-16.75	Peak
3	216.02	44.75	10.41	28.46	0.55	27.25	46.00	-18.75	Peak
4	425.03	36.35	15.38	27.07	0.71	25.37	46.00	-20.63	Peak
5	734.49	35.54	20.09	25.49	1.30	31.44	46.00	-14.56	Peak
6	955.44	34.98	22.15	24.99	2.06	34.20	46.00	-11.80	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Data: 5

File: D:\Test Data 2015\Y\YuanPeng\15.08.13 PC.EM6 (12)

Date: 2015-08-10 Time: 16:56:30



Condition : FCC PART 15 B 3m POL: VERTICAL  
 EUI :  
 Model No :  
 Test Mode : WIFI  
 Power :  
 Test Engineer :  
 Remark :  
 Temp : 24.2°C  
 Hum : 54%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	30.96	54.29	13.28	30.98	0.07	36.66	40.00	-3.34	Peak
2	38.75	48.47	13.73	30.84	0.13	31.49	40.00	-8.51	Peak
3	118.60	47.40	12.06	29.74	0.35	30.07	43.50	-13.43	Peak
4	144.84	51.39	13.77	29.41	0.46	36.21	43.50	-7.29	Peak
5	197.20	46.85	10.13	28.87	0.51	28.62	43.50	-14.88	Peak
6	224.52	43.90	10.87	28.32	0.55	27.00	46.00	-19.00	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

From 1G-25GHz

IEEE 802.11b:

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
2289	V	48.42	---	-8.07	40.35	---	74.00	54.00	-13.65	Peak
4824	V	40.49	---	0.64	41.13	---	74.00	54.00	-12.87	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
2913	H	45.13	---	-5.95	39.18	---	74.00	54.00	-14.82	Peak
4824	H	40.61	---	0.64	41.25	---	74.00	54.00	-12.75	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.



<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
2953	V	46.70	---	-5.86	40.84	---	74.00	54.00	-13.16	Peak
4874	V	40.39	---	0.76	41.15	---	74.00	54.00	-12.85	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
3452	H	47.26	---	-4.95	42.31	---	74.00	54.00	-11.69	Peak
4874	H	40.50	---	0.76	41.26	---	74.00	54.00	-12.74	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
3112	V	47.79	---	-5.63	42.16	---	74.00	54.00	-11.84	Peak
4924	V	40.48	---	0.87	41.35	---	74.00	54.00	-12.65	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
3704	H	45.06	---	-4.24	40.82	---	74.00	54.00	-13.18	Peak
4924	H	38.40	---	0.87	39.27	---	74.00	54.00	-14.73	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11g:

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1145	V	52.37	---	-11.24	41.13	---	74.00	54.00	-12.87	Peak
2586	V	49.55	---	-7.13	42.42	---	74.00	54.00	-11.58	Peak
3062	V	49.05	---	-5.74	43.31	---	74.00	54.00	-10.69	Peak
4824	V	40.82	---	0.64	41.46	---	74.00	54.00	-12.54	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1294	H	53.22	---	-10.96	42.26	---	74.00	54.00	-11.74	Peak
2038	H	50.05	---	-8.58	41.47	---	74.00	54.00	-12.53	Peak
3483	H	46.19	---	-4.95	41.24	---	74.00	54.00	-12.76	Peak
4824	H	41.47	---	0.64	42.11	---	74.00	54.00	-11.89	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1374	V	51.96	---	-10.43	41.53	---	74.00	54.00	-12.47	Peak
2589	V	47.55	---	-7.13	40.42	---	74.00	54.00	-13.58	Peak
3365	V	46.70	---	-5.18	41.52	---	74.00	54.00	-12.48	Peak
4874	V	39.50	---	0.76	40.26	---	74.00	54.00	-13.74	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1321	H	52.36	---	-10.84	41.52	---	74.00	54.00	-12.48	Peak
2314	H	48.35	---	-7.46	40.89	---	74.00	54.00	-13.11	Peak
3577	H	45.91	---	-4.76	41.15	---	74.00	54.00	-12.85	Peak
4874	H	38.50	---	0.76	39.26	---	74.00	54.00	-14.74	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1302	V	51.20	---	-10.84	40.36	---	74.00	54.00	-13.64	Peak
2982	V	46.99	---	-5.86	41.13	---	74.00	54.00	-12.87	Peak
3831	V	46.23	---	-3.96	42.27	---	74.00	54.00	-11.73	Peak
4924	V	40.61	---	0.87	41.48	---	74.00	54.00	-12.52	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1446	H	50.65	---	-10.29	40.36	---	74.00	54.00	-13.64	Peak
2198	H	47.92	---	-8.24	39.68	---	74.00	54.00	-14.32	Peak
3905	H	44.81	---	-3.68	41.13	---	74.00	54.00	-12.87	Peak
4924	H	41.19	---	0.87	42.06	---	74.00	54.00	-11.94	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

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<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1492	V	52.02	---	-10.27	41.75	---	74.00	54.00	-12.25	Peak
2671	V	46.32	---	-6.94	39.38	---	74.00	54.00	-14.62	Peak
3948	V	43.87	---	-3.68	40.19	---	74.00	54.00	-13.81	Peak
4824	V	41.79	---	0.64	42.43	---	74.00	54.00	-11.57	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1451	H	49.85	---	-10.27	39.58	---	74.00	54.00	-14.42	Peak
2839	H	46.80	---	-6.17	40.63	---	74.00	54.00	-13.37	Peak
3607	H	45.66	---	-4.52	41.14	---	74.00	54.00	-12.86	Peak
4824	H	41.42	---	0.64	42.06	---	74.00	54.00	-11.94	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1262	V	53.38	---	-10.96	42.42	---	74.00	54.00	-11.58	Peak
2013	V	49.82	---	-8.58	41.24	---	74.00	54.00	-12.76	Peak
3798	V	44.73	---	-4.07	40.66	---	74.00	54.00	-13.34	Peak
4874	V	40.97	---	0.76	41.73	---	74.00	54.00	-12.27	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1511	H	51.50	---	-10.14	41.36	---	74.00	54.00	-12.64	Peak
2353	H	49.06	---	-7.59	41.47	---	74.00	54.00	-12.53	Peak
3266	H	45.60	---	-5.39	40.21	---	74.00	54.00	-13.79	Peak
4874	H	40.48	---	0.76	41.24	---	74.00	54.00	-12.76	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1477	V	50.96	---	-10.27	40.69	---	74.00	54.00	-13.31	Peak
2703	V	48.18	---	-6.43	41.75	---	74.00	54.00	-12.25	Peak
3561	V	46.33	---	-4.76	41.57	---	74.00	54.00	-12.43	Peak
4924	V	39.81	---	0.87	40.68	---	74.00	54.00	-13.32	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1503	H	50.28	---	-10.14	40.14	---	74.00	54.00	-13.86	Peak
3588	H	46.25	---	-4.96	41.29	---	74.00	54.00	-12.71	Peak
4153	H	44.94	---	-2.48	42.46	---	74.00	54.00	-11.54	Peak
4924	H	42.75	---	0.87	43.62	---	74.00	54.00	-10.38	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.



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<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1551	V	50.96	---	-10.07	40.89	---	74.00	54.00	-13.11	Peak
2695	V	48.69	---	-6.94	41.75	---	74.00	54.00	-12.25	Peak
3463	V	47.09	---	-4.95	42.14	---	74.00	54.00	-11.86	Peak
4844	V	40.89	---	0.64	41.53	---	74.00	54.00	-12.47	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1542	H	50.62	---	-10.14	40.48	---	74.00	54.00	-13.52	Peak
2358	H	49.75	---	-7.59	42.16	---	74.00	54.00	-11.84	Peak
3096	H	47.51	---	-5.74	41.77	---	74.00	54.00	-12.23	Peak
4844	H	40.50	---	0.64	41.14	---	74.00	54.00	-12.86	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1628	V	50.10	---	-9.84	40.26	---	74.00	54.00	-13.74	Peak
2593	V	49.55	---	-7.13	42.42	---	74.00	54.00	-11.58	Peak
3301	V	46.99	---	-5.31	41.68	---	74.00	54.00	-12.32	Peak
4874	V	41.46	---	0.76	42.22	---	74.00	54.00	-11.78	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1564	H	51.43	---	-10.07	41.36	---	74.00	54.00	-12.64	Peak
2248	H	49.42	---	-8.13	41.29	---	74.00	54.00	-12.71	Peak
3159	H	45.88	---	-5.52	40.36	---	74.00	54.00	-13.64	Peak
4874	H	41.66	---	0.76	42.42	---	74.00	54.00	-11.58	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1645	V	50.89	---	-9.84	41.05	---	74.00	54.00	-12.95	Peak
2590	V	48.02	---	-7.13	40.89	---	74.00	54.00	-13.11	Peak
3851	V	45.36	---	-3.84	41.52	---	74.00	54.00	-12.48	Peak
4904	V	41.56	---	0.87	42.43	---	74.00	54.00	-11.57	Peak

<b>EUT</b>	TABLET PC	<b>Model Name</b>	G710
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 3.7V From battery
<b>Test Mode</b>	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1792	H	49.24	---	-9.27	39.97	---	74.00	54.00	-14.03	Peak
2804	H	47.32	---	-6.17	41.15	---	74.00	54.00	-12.85	Peak
3743	H	45.92	---	-4.24	41.68	---	74.00	54.00	-12.32	Peak
4904	H	41.44	---	0.87	42.31	---	74.00	54.00	-11.69	Peak

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

## 6 POWER LINE CONDUCTED EMISSION

### 6.1 Conducted Emission Limits(15.207)

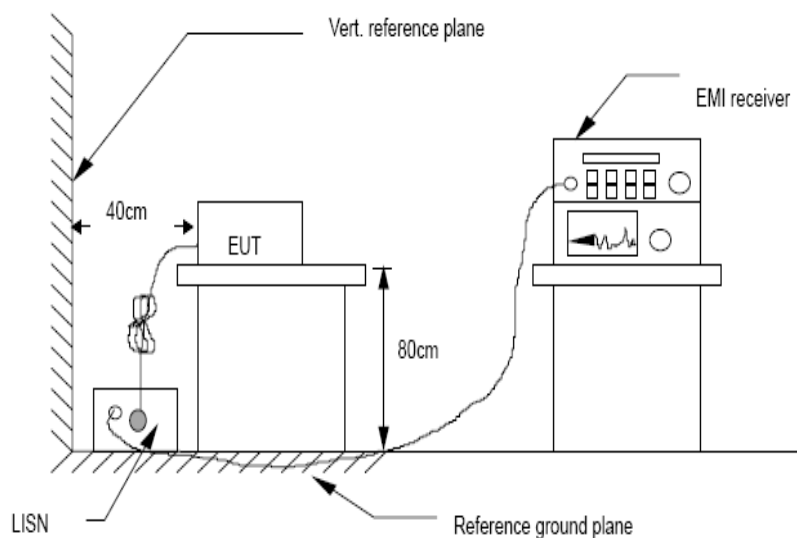
Frequency MHz	Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

### 6.2 Test Setup



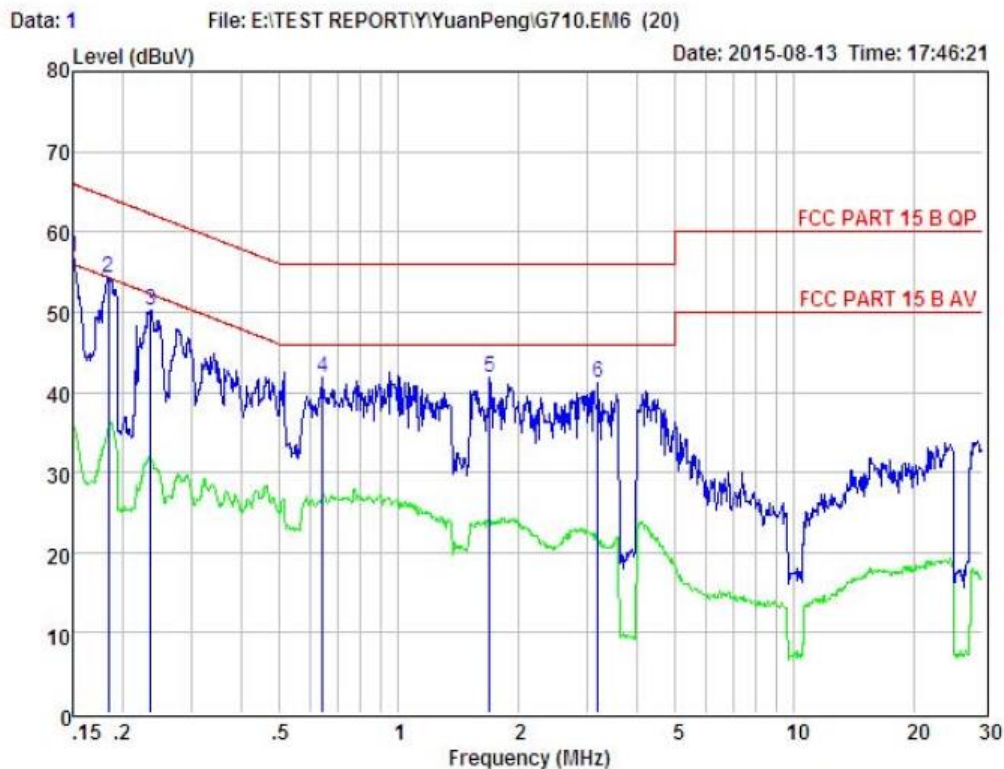
### 6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4:2014 on Conducted Emission Measurement. The bandwidth of test receiver (R & S ESCI) is set at 9 kHz.

### 6.4 Test Results

# PASS

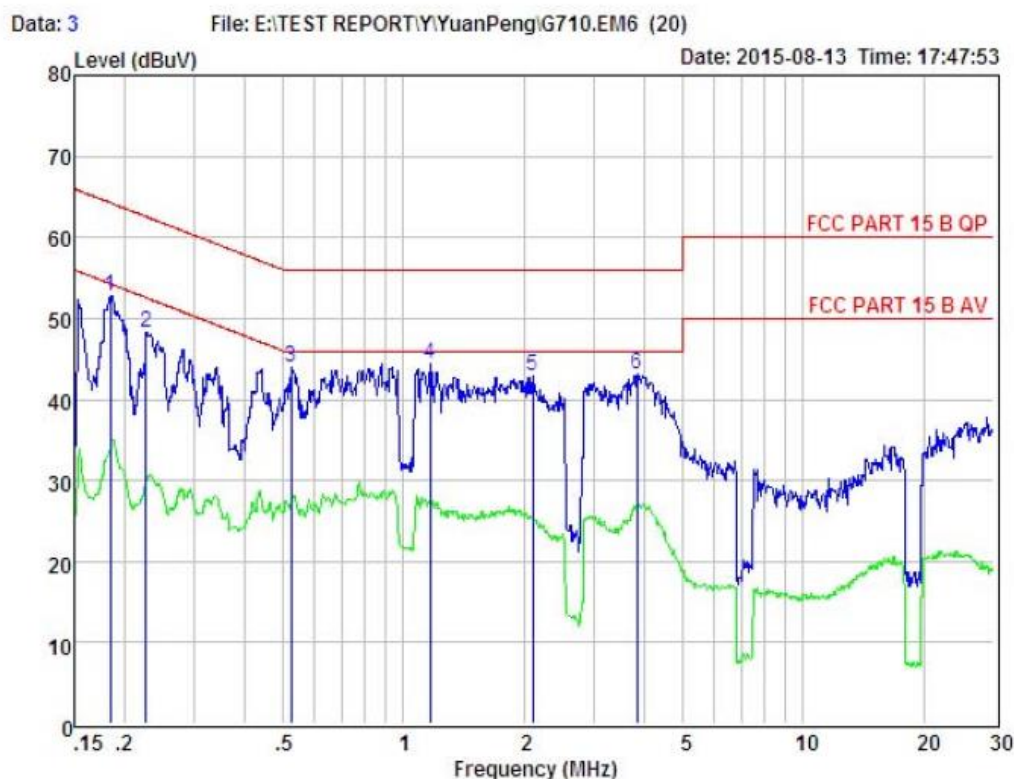
Detailed information please see the following page.



Condition : FCC PART 15 B QP POL: LINE Temp: 25.7 °C Hum: 51 %  
 EUT :  
 Model No : G710  
 Test Mode :  
 Power : DC 5V from adapter AC 120V/60Hz  
 Test Engineer:  
 Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.150	47.05	0.03	-9.72	0.10	56.90	66.00	-9.10	Peak
2	0.184	44.46	0.03	-9.72	0.10	54.31	64.28	-9.97	Peak
3	0.237	40.25	0.03	-9.72	0.10	50.10	62.22	-12.12	Peak
4	0.644	32.04	0.03	-9.72	0.10	41.89	56.00	-14.11	Peak
5	1.698	31.99	0.05	-9.70	0.10	41.84	56.00	-14.16	Peak
6	3.190	31.23	0.07	-9.69	0.12	41.11	56.00	-14.89	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



Condition : FCC PART 15 B QP POL: NEUTRAL Temp:25.7 °C Hum:51 %  
 EUI :  
 Model No : G710  
 Test Mode :  
 Power : 500 mW from adapter AC 120V/60Hz  
 Test Engineer:  
 Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.184	42.93	0.03	-9.72	0.10	52.78	64.28	-11.50	Peak
2	0.227	38.43	0.03	-9.72	0.10	48.28	62.57	-14.29	Peak
3	0.524	34.02	0.03	-9.72	0.10	43.87	56.00	-12.13	Peak
4	1.166	34.55	0.04	-9.71	0.10	44.40	56.00	-11.60	Peak
5	2.110	32.94	0.06	-9.70	0.10	42.80	56.00	-13.20	Peak
6	3.840	33.29	0.08	-9.69	0.12	43.18	56.00	-12.82	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

## 7 Conducted Maximum Output Power

### 7.1 Test limit

Please refer section FCC Part 15.247.

### 7.2 Test Procedure

Details see the KDB558074 Meas Guidance V03

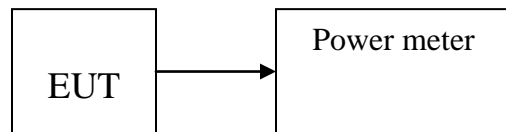
7.2.1 Place the EUT on the table and set it in transmitting mode.

7.2.2 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

Details see the KDB558074 DTS Meas Guidance V03

### 7.3 Test Setup



### 7.4 Test Results

**PASS**

Detailed information please see the following page.



EUT: TABLET PC		M/N: G710		
Test date: 2015-06-03		Test site: RF site		Tested by: Eric Huang
Mode	Frequency (MHz)	Maximum output power (dBm)	Limit (dBm)	Margin (dB)
IEEE 802.11b	CH1: 2412	18.00	30	12
	CH6: 2437	17.85	30	12.15
	CH11: 2462	17.56	30	12.44
IEEE 802.11g	CH1: 2412	17.02	30	12.98
	CH6: 2437	16.91	30	13.09
	CH11: 2462	16.55	30	13.45
IEEE 802.11n/HT20	CH1: 2412	16.12	30	13.88
	CH6: 2437	15.87	30	14.13
	CH11: 2462	15.82	30	14.18
IEEE 802.11n/HT40	CH1: 2422	15.04	30	14.96
	CH4: 2437	14.57	30	15.43
	CH7: 2452	14.53	30	15.47
Conclusion: PASS				

## 8 PEAK POWER SPECTRAL DENSITY

### 8.1 Test limit

8.1.1 Please refer section Part 15.247.

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

8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

### 8.2 Method of measurement

Details see the KDB558074 DTS Meas Guidance V03

8.2.1 Place the EUT on the table and set it in transmitting mode.

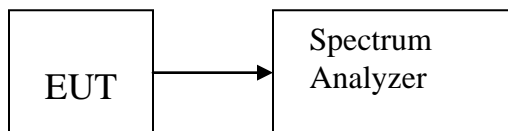
8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, span=5-30%EBW, detail see the test plot.

8.2.4 Record the max reading.

8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

### 8.3 Test Setup



## 8.4 Test Results

PASS.

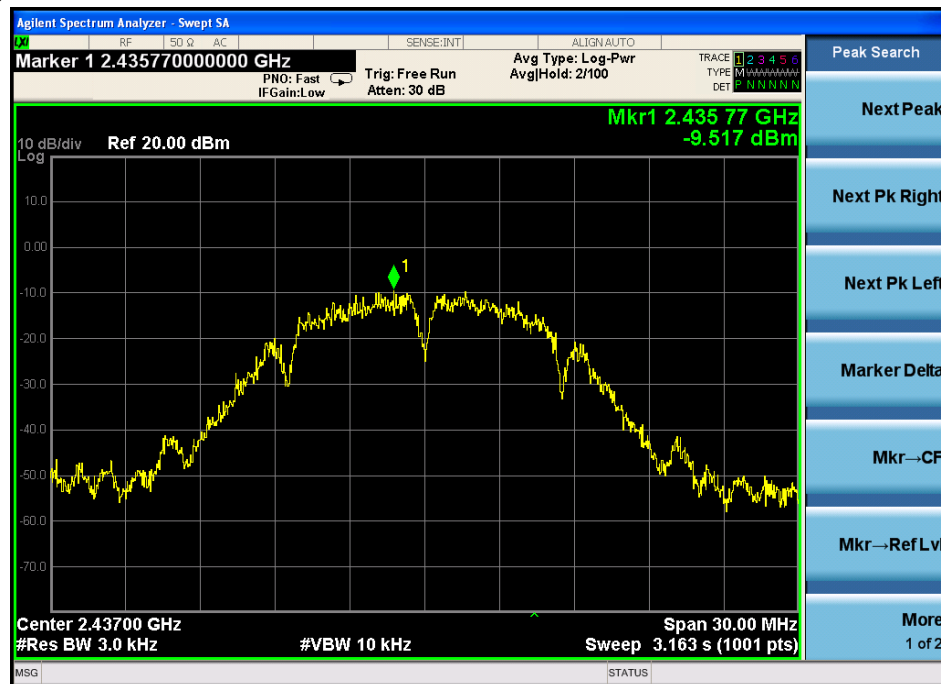
Detailed information please see the following page.

EUT: TABLET PC		M/N: G710		
Test date: 2015-06-03		Test site: RF site		Tested by: Eric Huang
Mode	Frequency (MHz)	Maximum PSD (dBm)	Limit (dBm)	Result
IEEE 802.11 b	CH1: 2412	-10.922	8	PASS
	CH6: 2437	-9.517	8	PASS
	CH11: 2462	-7.987	8	PASS
IEEE 802.11 g	CH1: 2412	-15.881	8	PASS
	CH6: 2437	-13.914	8	PASS
	CH11: 2462	-14.373	8	PASS
IEEE 802.11 n/HT20 with 2.4G	CH1: 2412	-16.421	8	PASS
	CH6: 2437	-14.144	8	PASS
	CH11: 2462	-14.209	8	PASS
IEEE 802.11 n/HT40 with 2.4G	CH1: 2422	-19.834	8	PASS
	CH4: 2437	-19.176	8	PASS
	CH7: 2452	-20.871	8	PASS
Conclusion: PASS				

IEEE 802.11b:  
CH Low:



CH Middle:

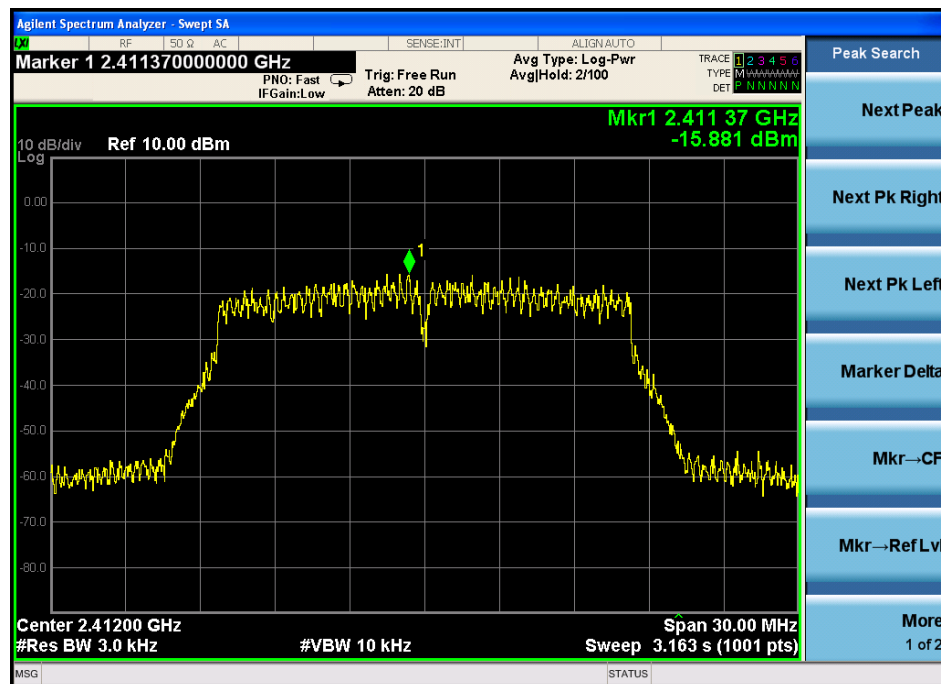


CH High:

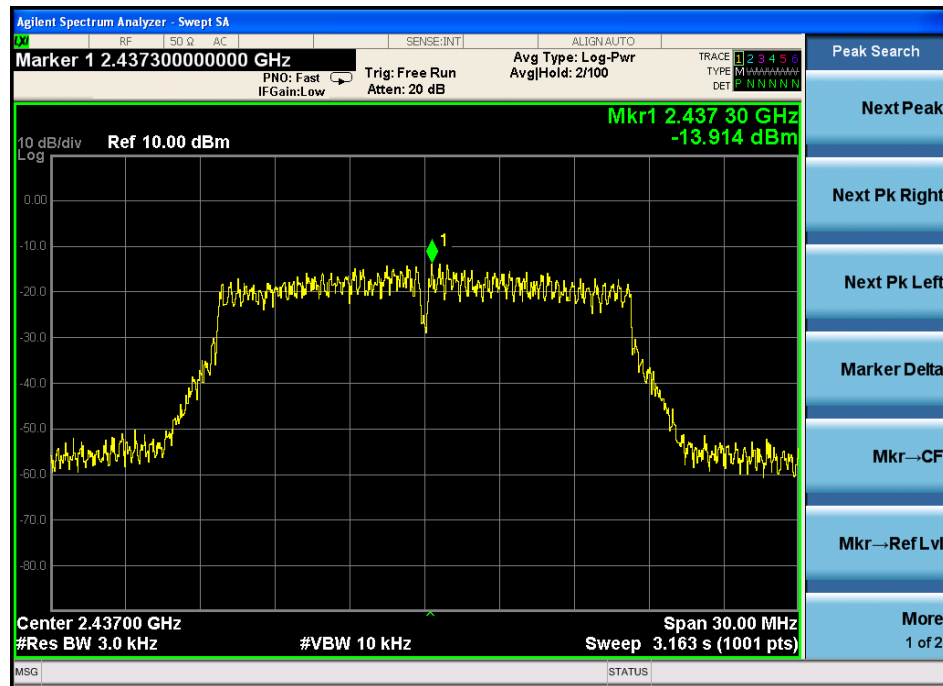


IEEE 802.11g:

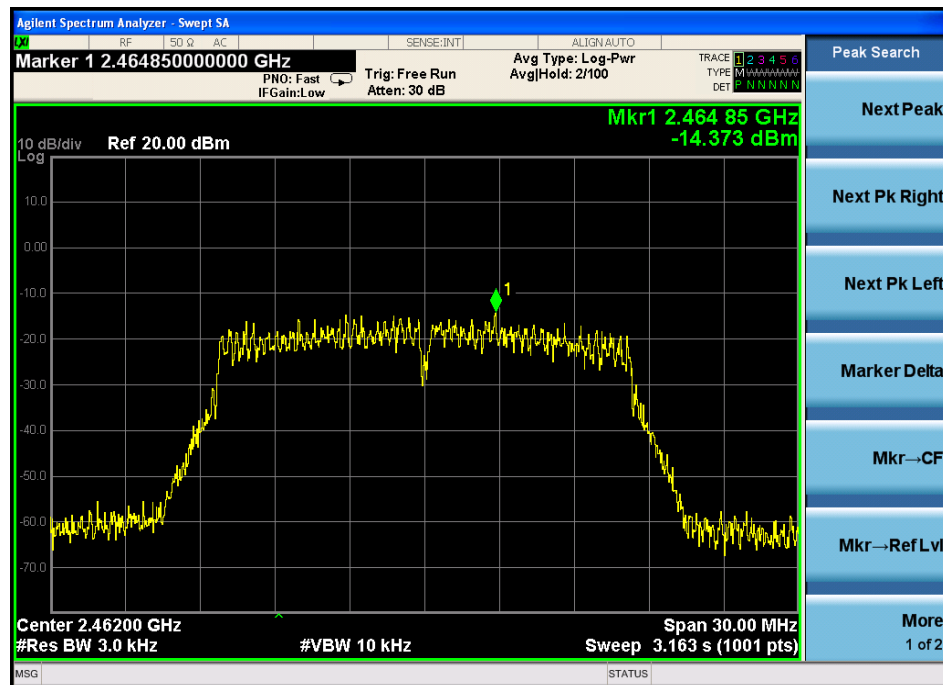
CH Low:



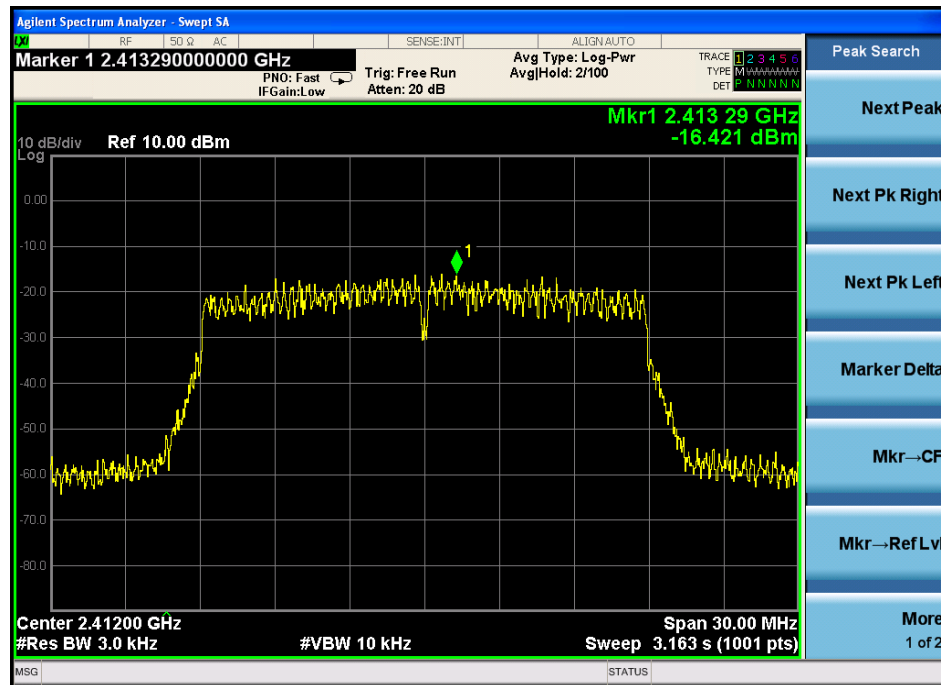
CH Middle:



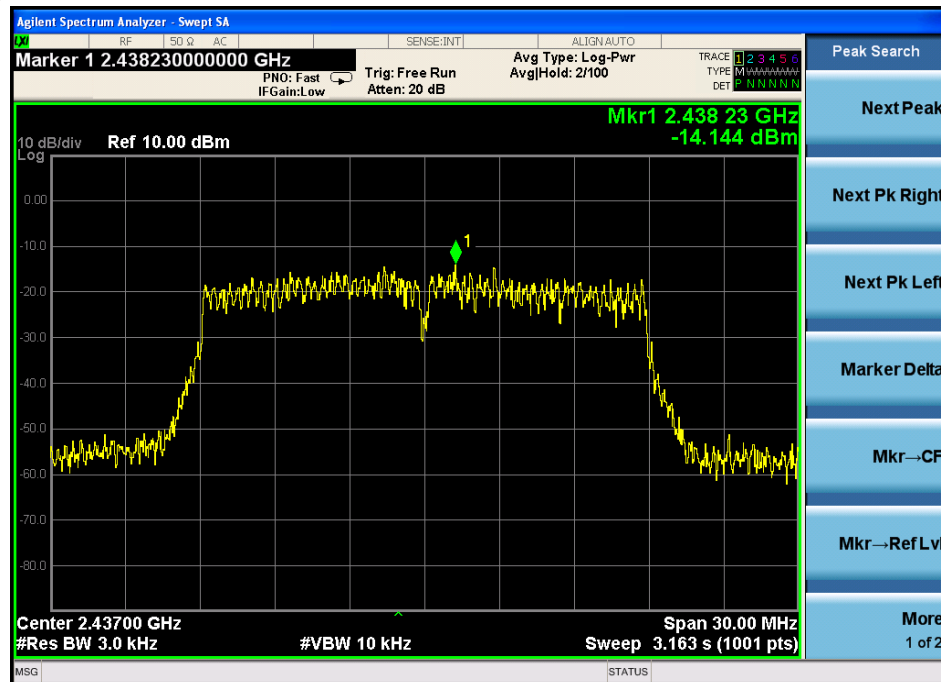
CH High:



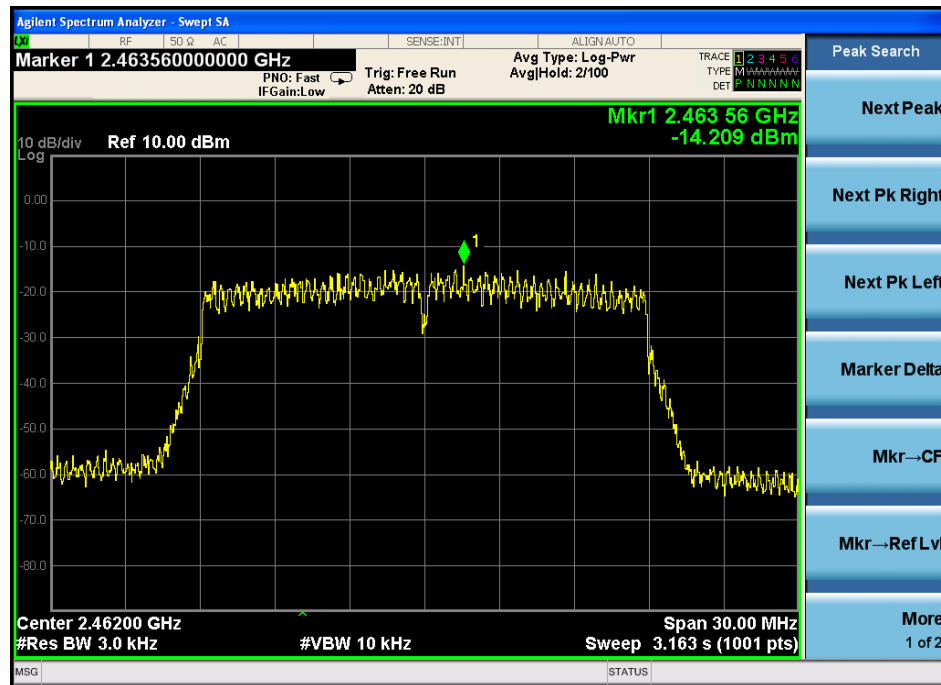
IEEE 802.11n HT20:  
CH Low:



CH Middle:

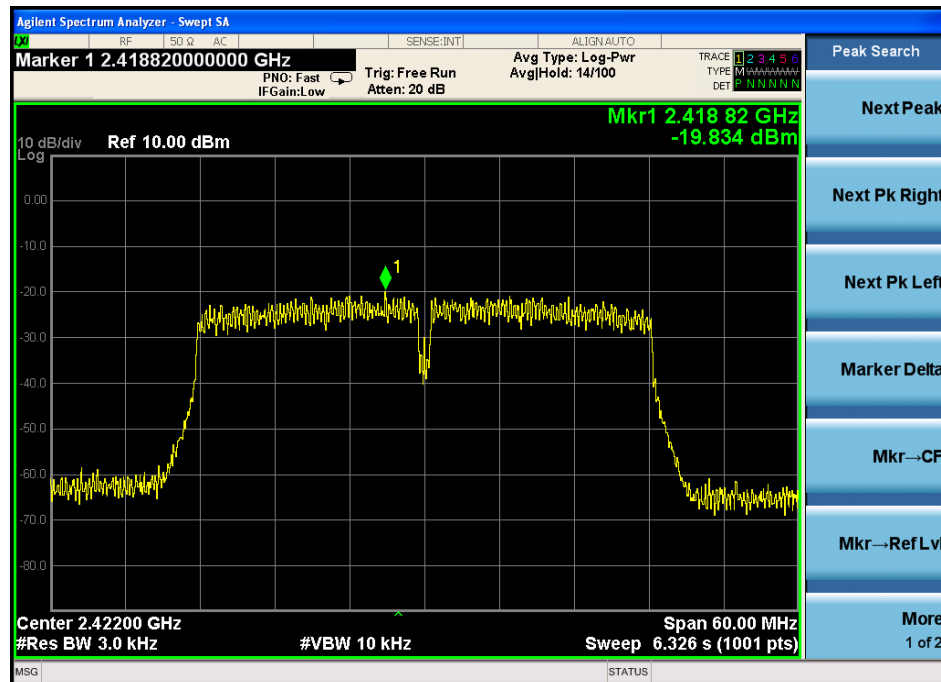


CH High:



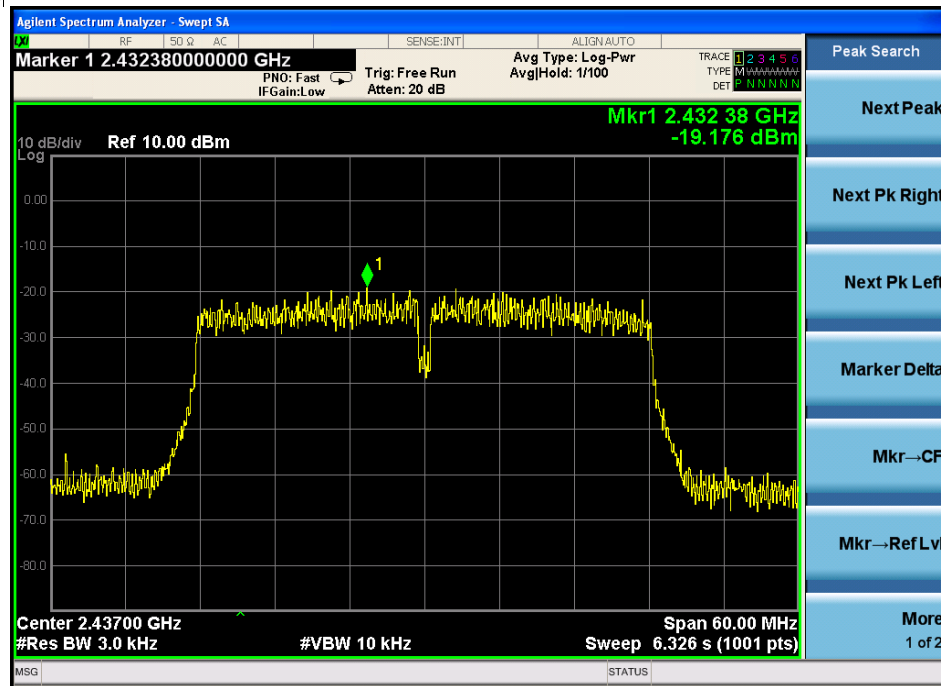
IEEE 802.11n HT40:

CH Low:

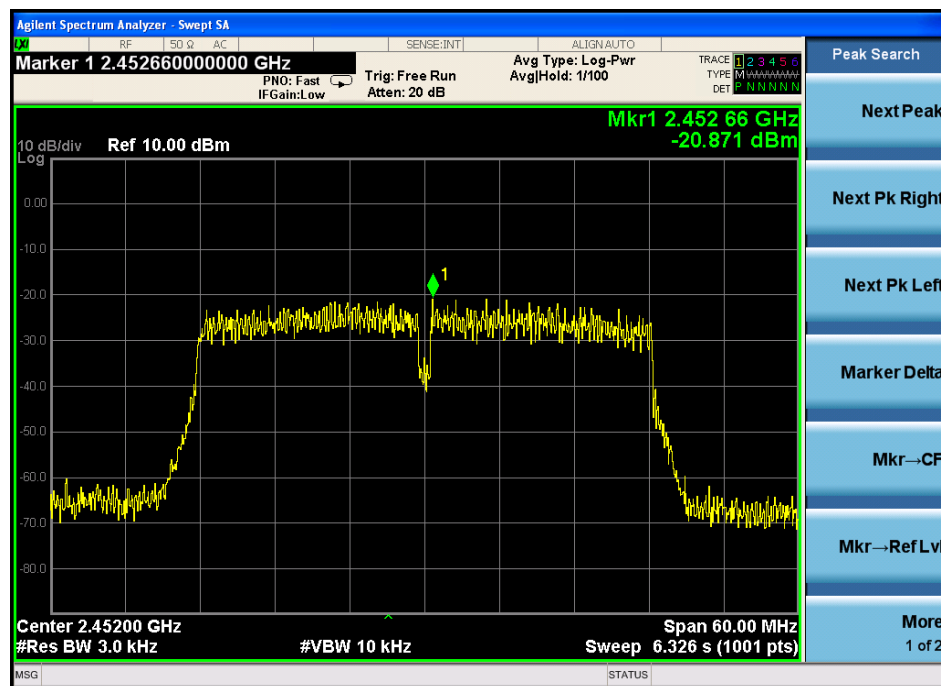




CH Middle:



CH High:



## 9 Bandwidth

### 9.1 Test limit

Please refer section FCC part 15.247

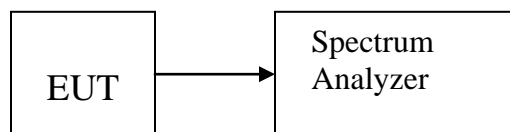
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

### 9.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set to  $RBW = 100 \text{ kHz}$ ,  $VBW \geq 3RBW$ , Sweep time set auto, detail see the test plot.

### 9.3 Test Setup



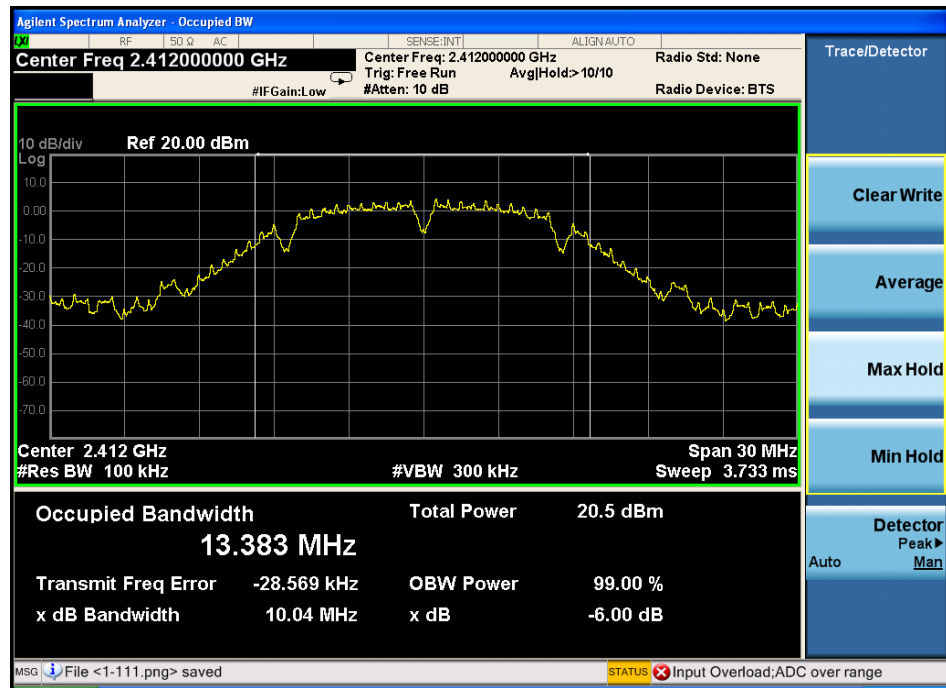
### 9.4 Test Results

PASS.

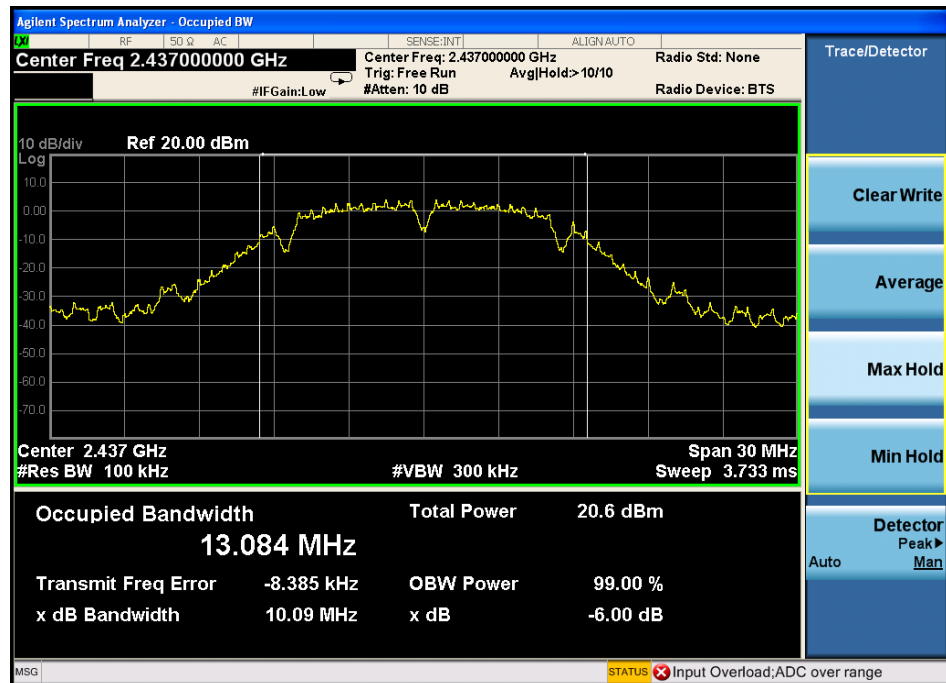
Detailed information please see the following page.

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b:					
Low	2412	10.04	/	0.5	PASS
Mid	2437	10.09	/	0.5	PASS
High	2462	10.09	/	0.5	PASS
IEEE 802.11g					
Low	2412	15.40	/	0.5	PASS
Mid	2437	15.12	/	0.5	PASS
High	2462	15.89	/	0.5	PASS
IEEE 802.11n/HT20:					
Low	2412	15.01	/	0.5	PASS
Mid	2437	15.19	/	0.5	PASS
High	2462	15.93	/	0.5	PASS
IEEE 802.11n/HT40:					
Low	2422	35.17	/	0.5	PASS
Mid	2437	35.16	/	0.5	PASS
High	2452	35.24	/	0.5	PASS

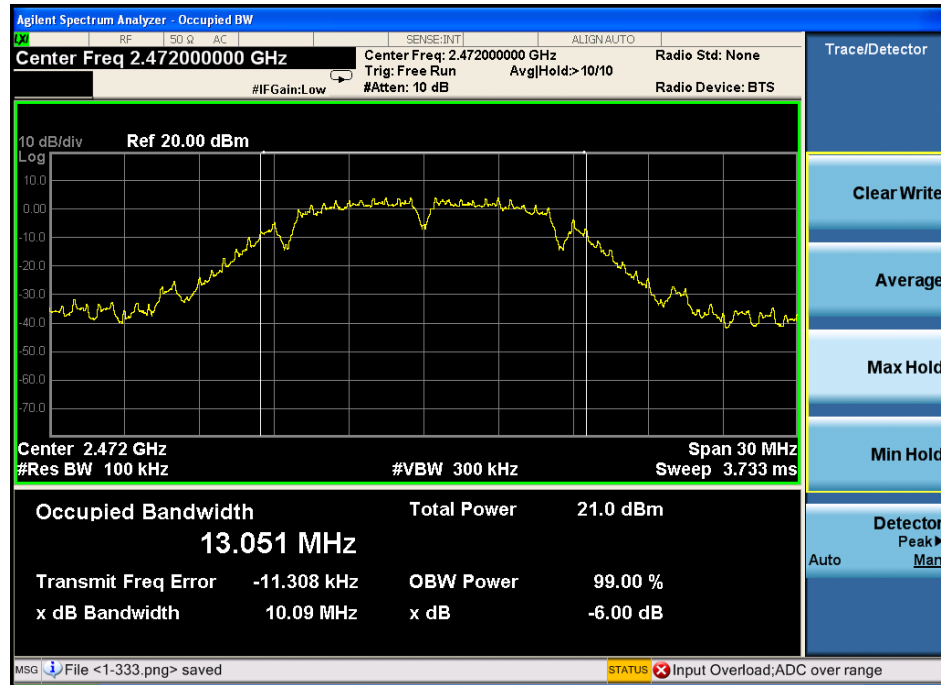
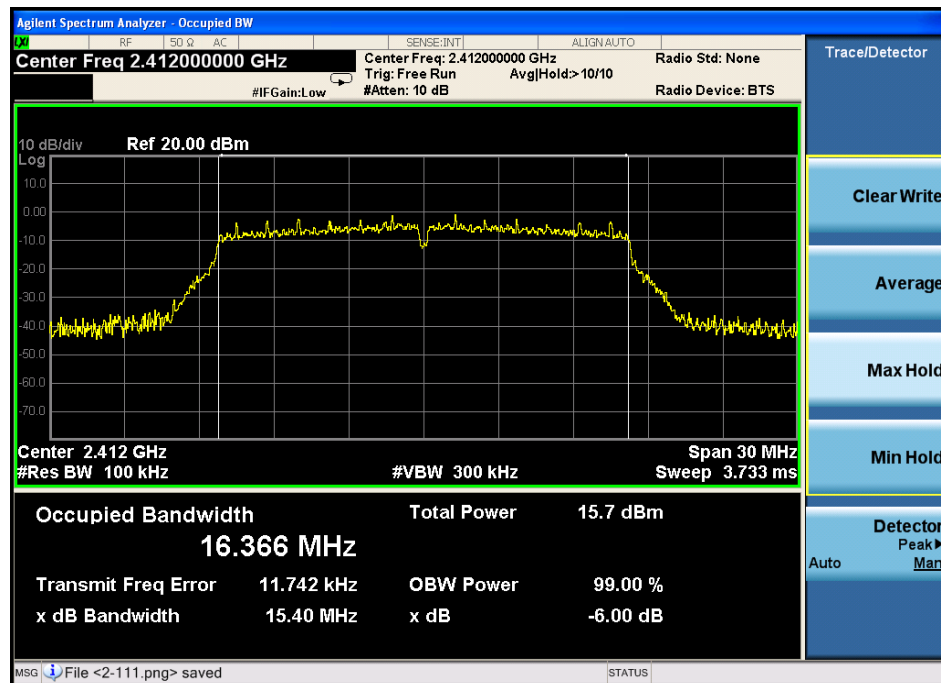
IEEE 802.11b:  
CH Low:



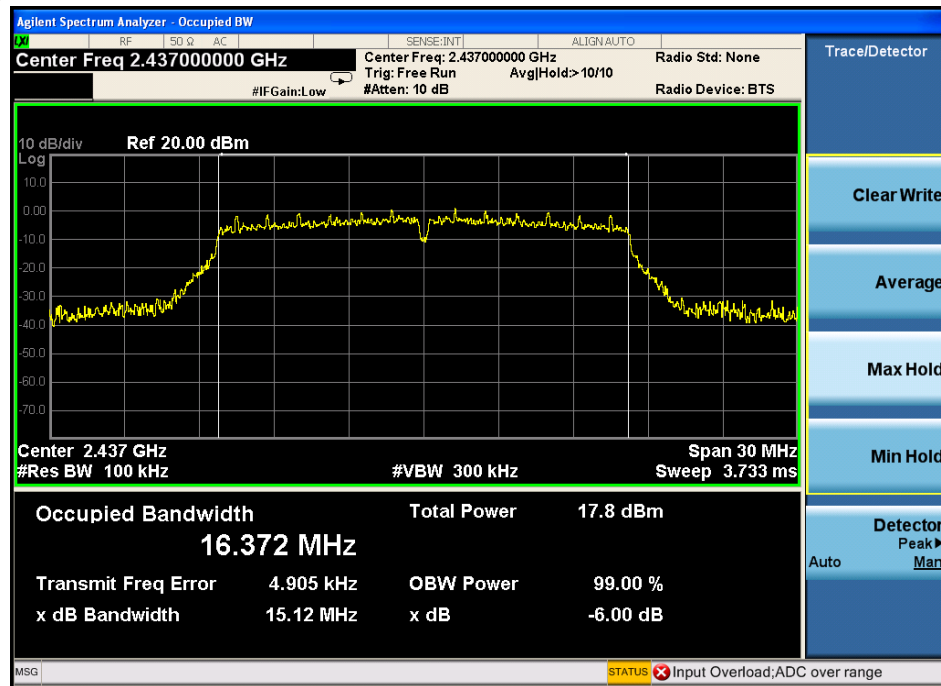
CH Middle:



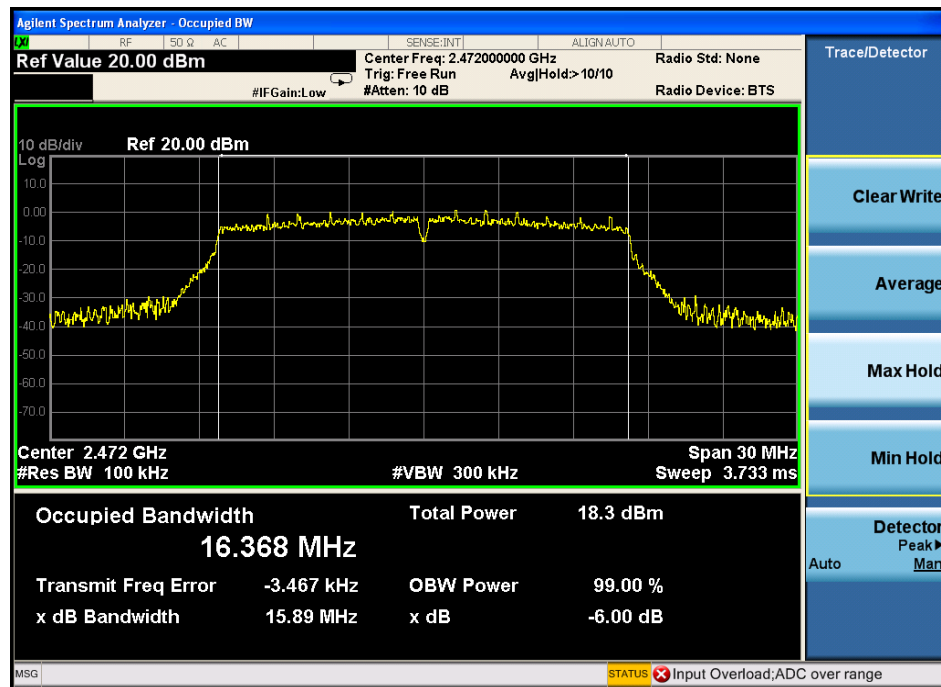
CH High:

IEEE 802.11g:  
CH Low:

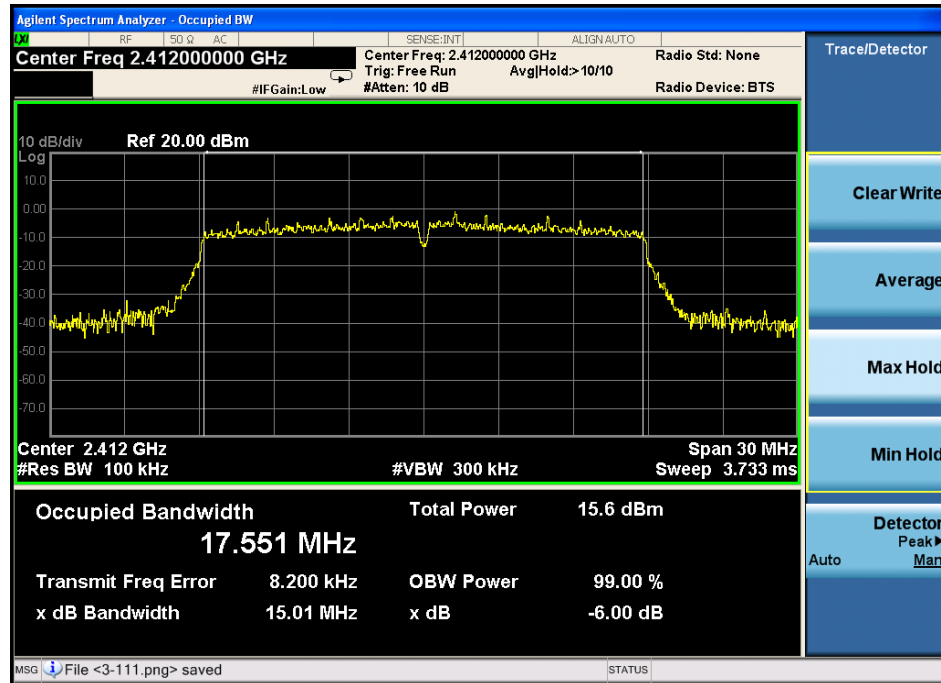
CH Middle:



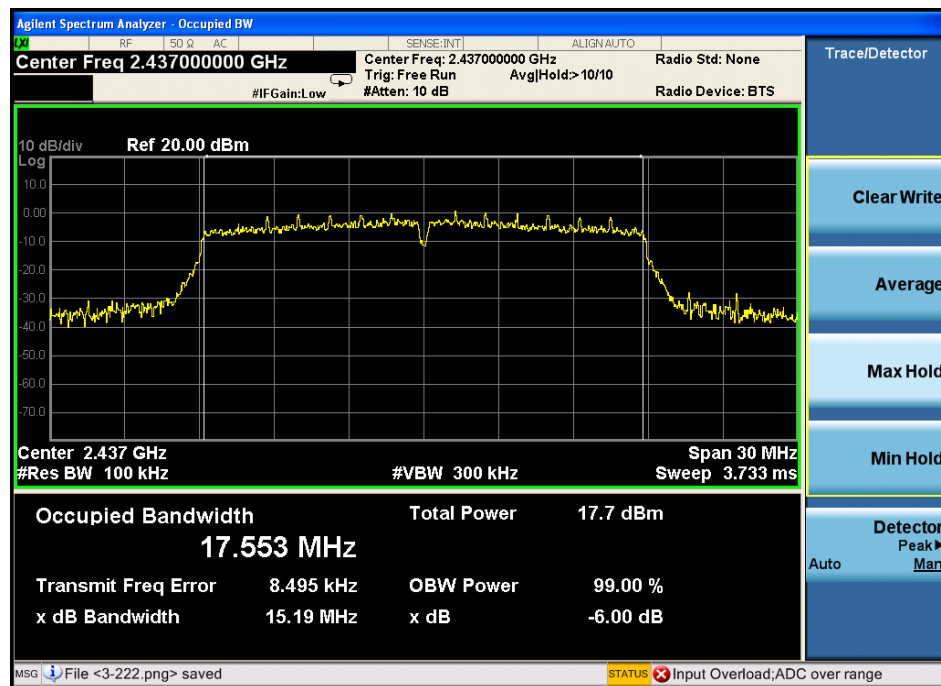
CH High:



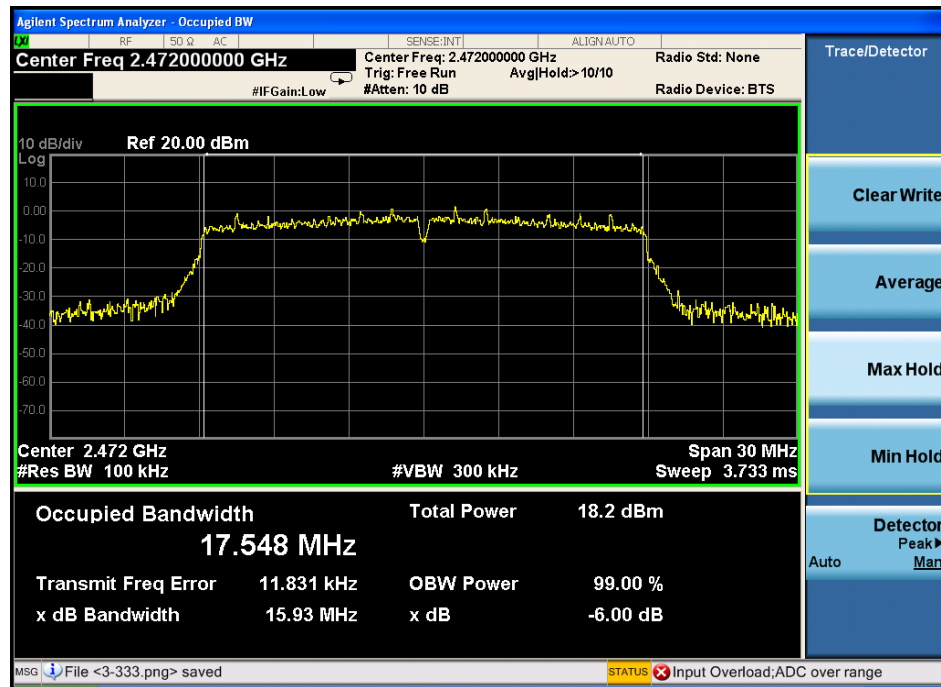
IEEE 802.11n HT20:  
CH Low:



CH Middle:

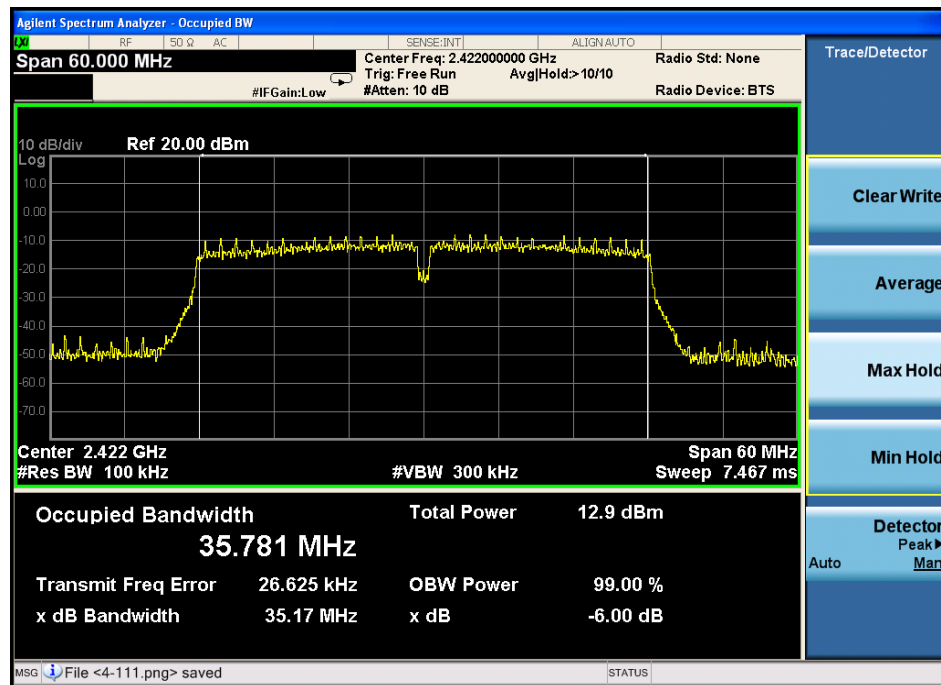


CH High:



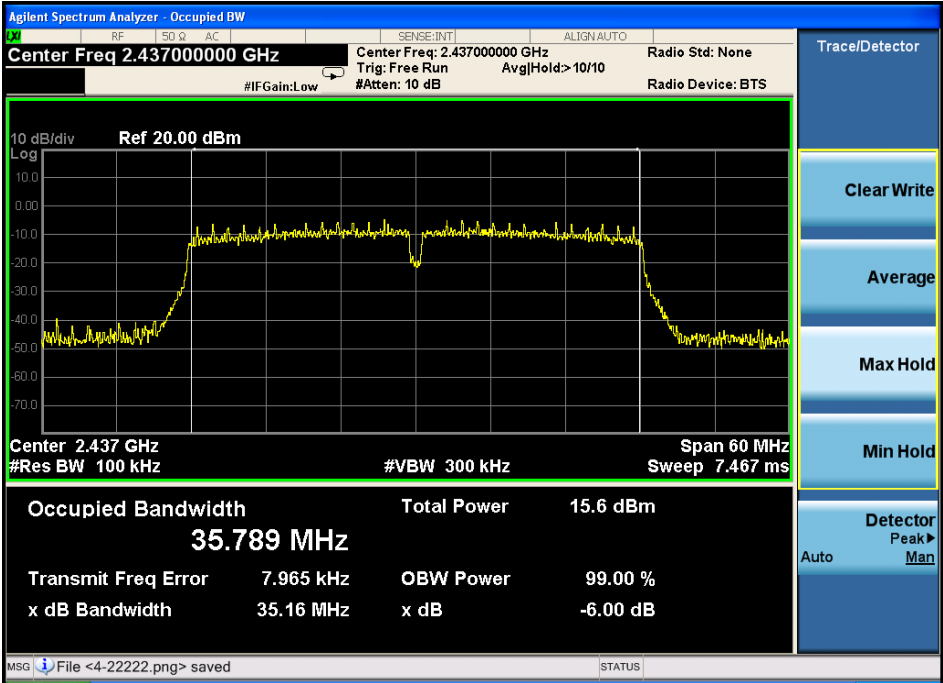
IEEE 802.11n/HT40:

CH Low:

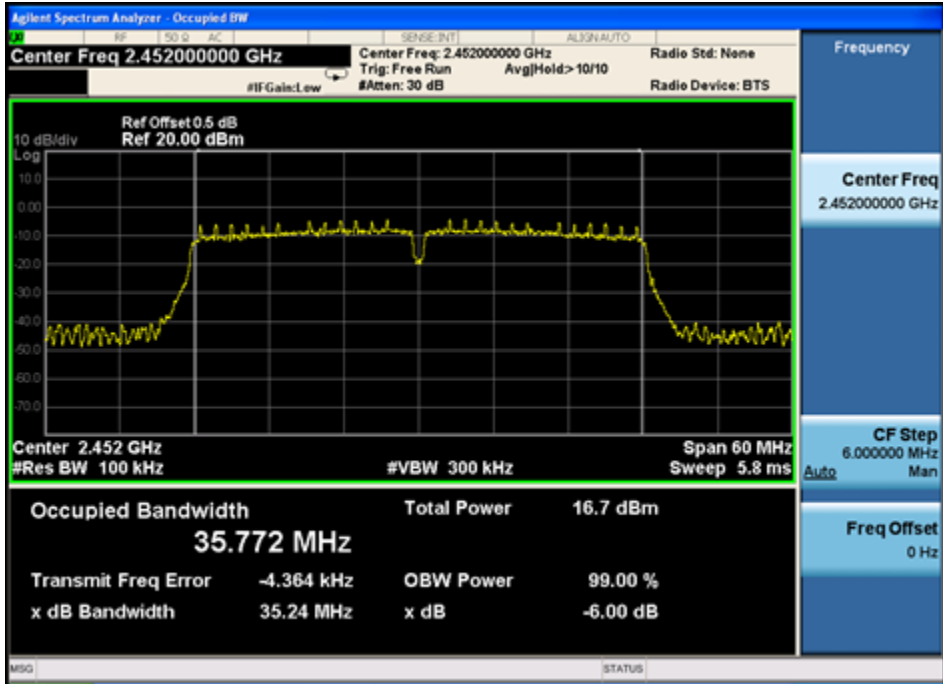




CH Middle:



CH High:



## 10 Band Edge Check

### 10.1 Test limit

Please refer section Part 15.247.

### 10.2 Test Procedure

12.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

12.2.2 Check the spurious emissions out of band.

12.2.3 RBW set to 1 MHz ,VBW set to 3 MHz ,peak detector for peak value.  
RBW set to 1MHz ,VBW set to 3MHz ,RMS detector for AV value.

### 10.3 Test Setup

Same as 5.2.2.

### 10.4 Test Result

**PASS.**

Detailed information please see the following page.

## 802.11b

Band Edge Test result								
EUT: TABLET PC			M/N: G710					
Power: DC 3.7V From battery								
Test date: 2015-08-13			Test site: 3m Chamber			Tested by: Eric Huang		
Test mode: Tx Low								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	42.55	27.62	3.92	34.97	39.12	74	34.88	<b>PK</b>
2390	--	27.62	3.94	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	42.68	27.62	3.92	34.97	39.25	74	34.75	<b>PK</b>
2390	--	27.62	3.94	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

Band Edge Test result								
EUT: TABLET PC			M/N: G710					
Power: DC 3.7V From battery								
Test date: 2015-08-13			Test site: 3m Chamber			Tested by: Eric Huang		
Test mode: Tx High								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	42.68	27.89	4	34.97	39.6	74	34.4	<b>PK</b>
2483.5		--	--	--	--	54	--	AV
Antenna Polarity: Horizontal								
2483.5	44.16	27.89	4	34.97	41.08	74	32.92	2483.5
2483.5		--	--	--	--	54	--	2483.5
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

Band Edge Test result								
EUT: TABLET PC			M/N: G710					
Power: DC 3.7V From battery								
Test date: 2015-08-13			Test site: 3m Chamber			Tested by: Eric Huang		
Test mode: Tx Low								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	49.15	27.62	3.92	34.97	45.72	74	28.28	PK
2390	--	27.62	3.94	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	49.52	27.62	3.92	34.97	46.09	74	27.91	PK
2390	--	27.62	3.94	34.97	--	54	--	AV

Note:  
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK  
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS  
3, Result = Read level + Antenna factor + cable loss-Amp factor  
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Band Edge Test result								
EUT: TABLET PC			M/N: G710					
Power: DC 3.7V From battery								
Test date: 2015-08-13			Test site: 3m Chamber			Tested by: Eric Huang		
Test mode: Tx High								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	45.75	27.89	4	34.97	42.67	74	31.33	<b>PK</b>
2483.5		--	--	--	--	54	--	AV
Antenna Polarity: Horizontal								
2483.5	46.57	27.89	4	34.97	43.49	74	30.51	<b>PK</b>
2483.5		--	--	--	--	54	--	AV

Note:

1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK

2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS

3, Result = Read level + Antenna factor + cable loss-Amp factor

4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Band Edge Test result								
EUT: TABLET PC			M/N: G710					
Power: DC 3.7V From battery								
Test date: 2015-08-13			Test site: 3m Chamber			Tested by: Eric Huang		
Test mode: Tx Low								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.68	27.62	3.92	34.97	40.25	74	33.75	<b>PK</b>
2390	--	27.62	3.94	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	45.56	27.62	3.92	34.97	42.13	74	31.87	<b>PK</b>
2390	--	27.62	3.94	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

Band Edge Test result								
EUT: TABLET PC			M/N: G710					
Power: DC 3.7V From battery								
Test date: 2015-08-13			Test site: 3m Chamber			Tested by: Eric Huang		
Test mode: Tx High								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	46.51	27.89	4	34.97	43.43	74	30.57	PK
2483.5		--	--	--	--	54	--	AV
Antenna Polarity: Horizontal								
2483.5	47.13	27.89	4	34.97	44.05	74	29.95	PK
2483.5		--	--	--	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								



Band Edge Test result								
EUT: TABLET PC			M/N: G710					
Power: DC 3.7V From battery								
Test date: 2015-08-13			Test site: 3m Chamber			Tested by: Eric Huang		
Test mode: Tx Low								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.53	27.62	3.92	34.97	40.1	74	33.9	<b>PK</b>
2390	--	27.62	3.94	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	44.45	27.62	3.92	34.97	41.02	74	32.98	<b>PK</b>
2390	--	27.62	3.94	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

Band Edge Test result								
EUT: TABLET PC			M/N: G710					
Power: DC 3.7V From battery								
Test date: 2015-08-13			Test site: 3m Chamber			Tested by: Eric Huang		
Test mode: Tx High								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	46.17	27.89	4	34.97	43.09	74	30.91	PK
2483.5		--	--	--	--	54	--	AV
Antenna Polarity: Horizontal								
2483.5	46.51	27.89	4	34.97	43.43	74	30.57	PK
2483.5		--	--	--	--	54	--	AV

Note:

1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK

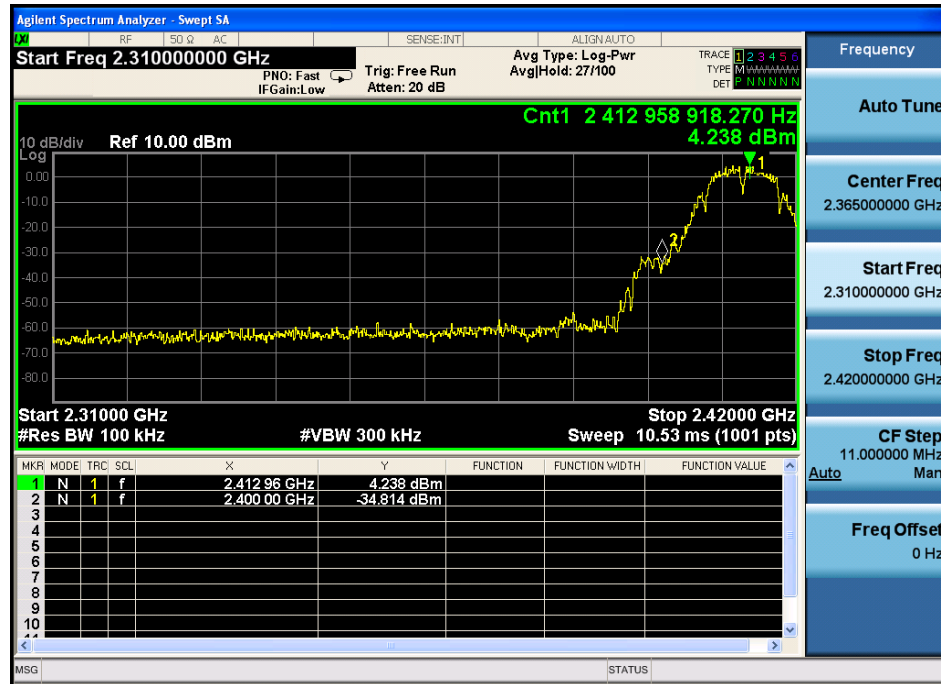
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS

3, Result = Read level + Antenna factor + cable loss-Amp factor

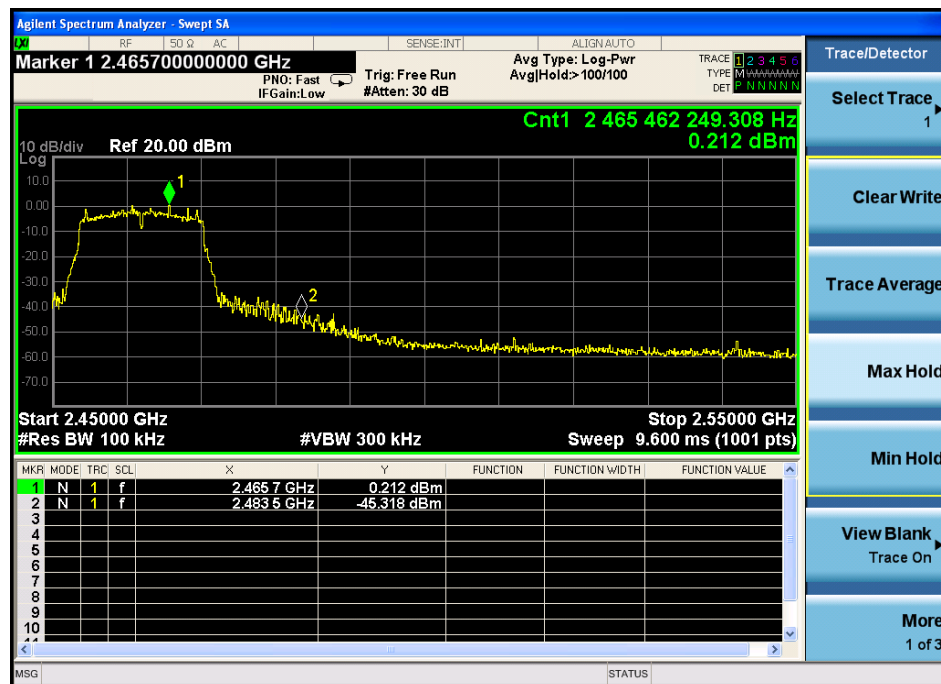
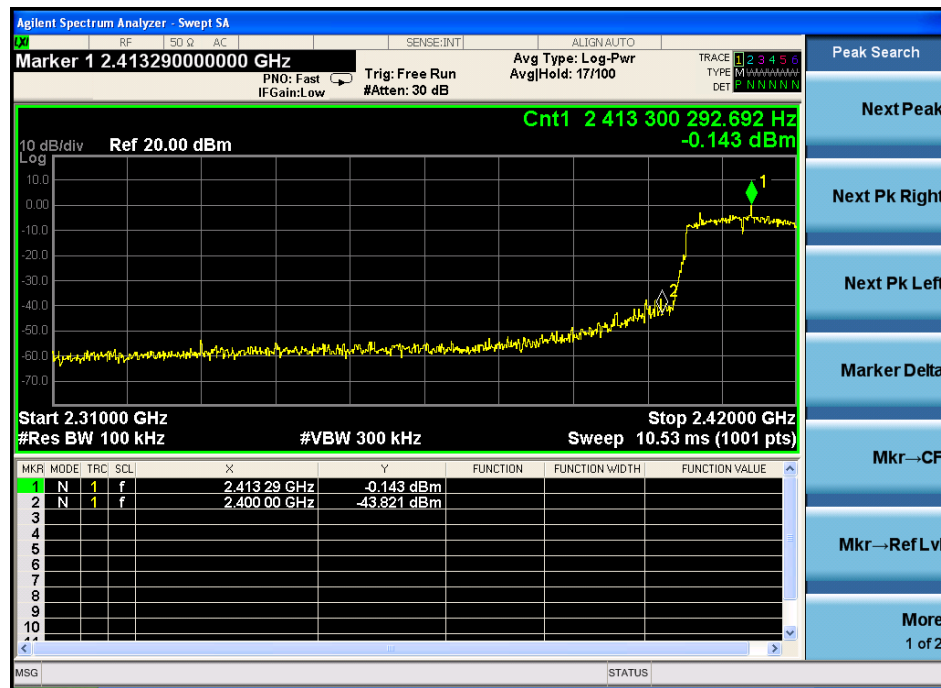
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Conducted measurement:

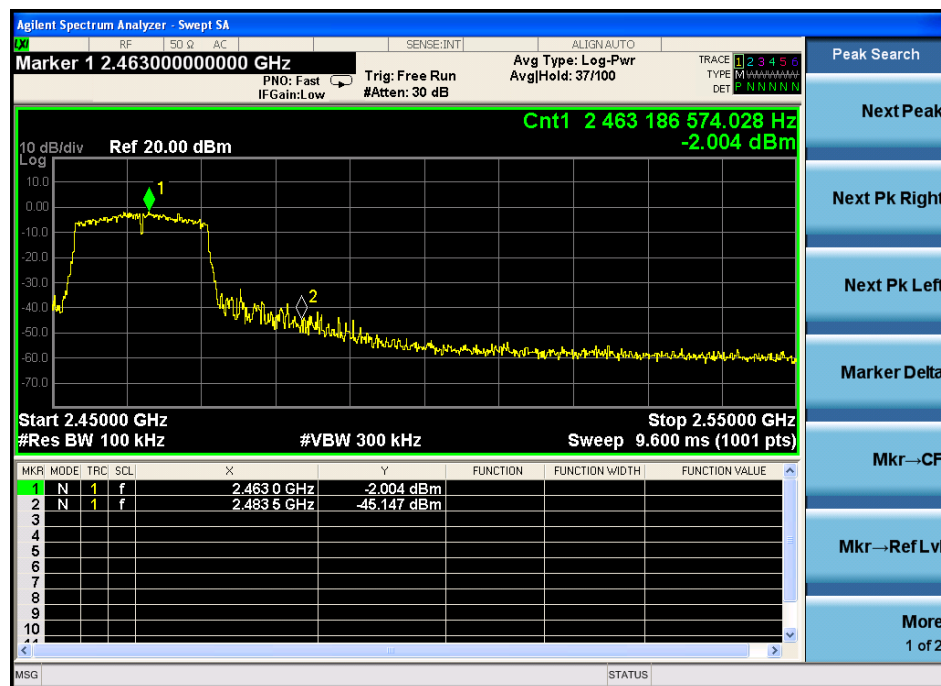
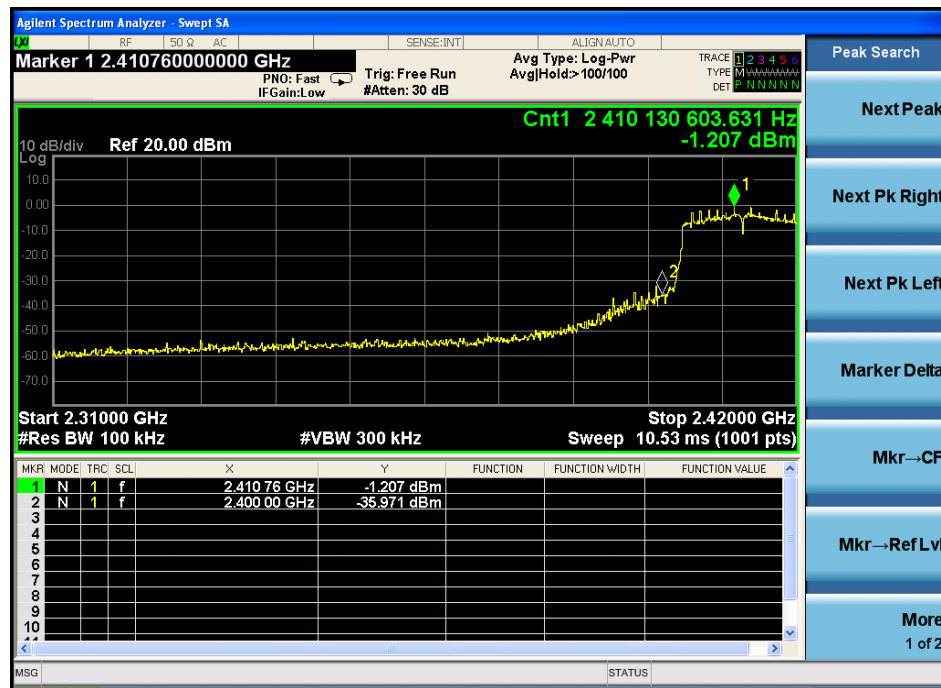
802.11b



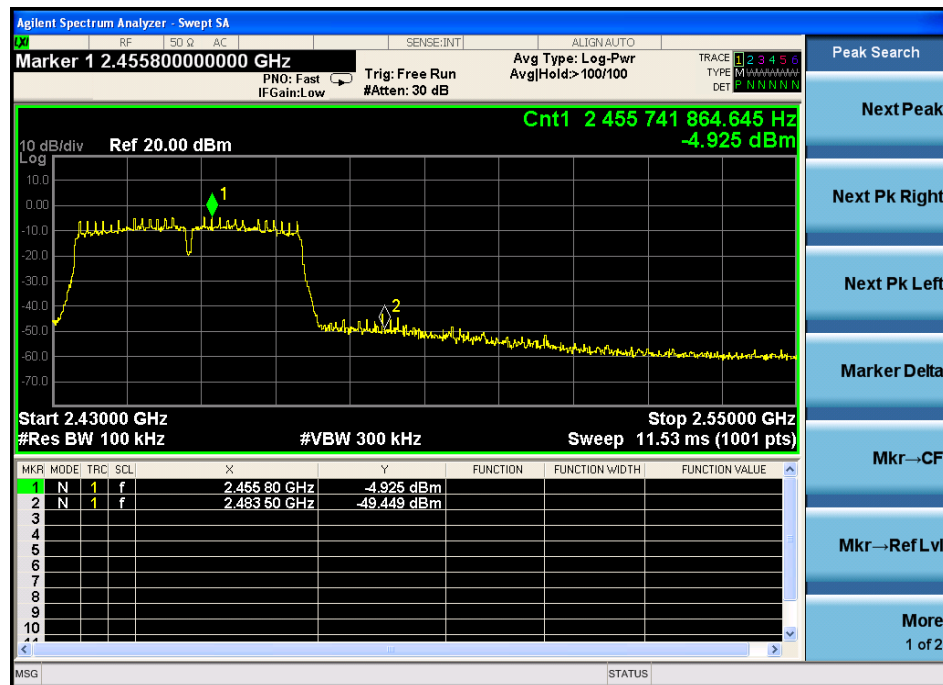
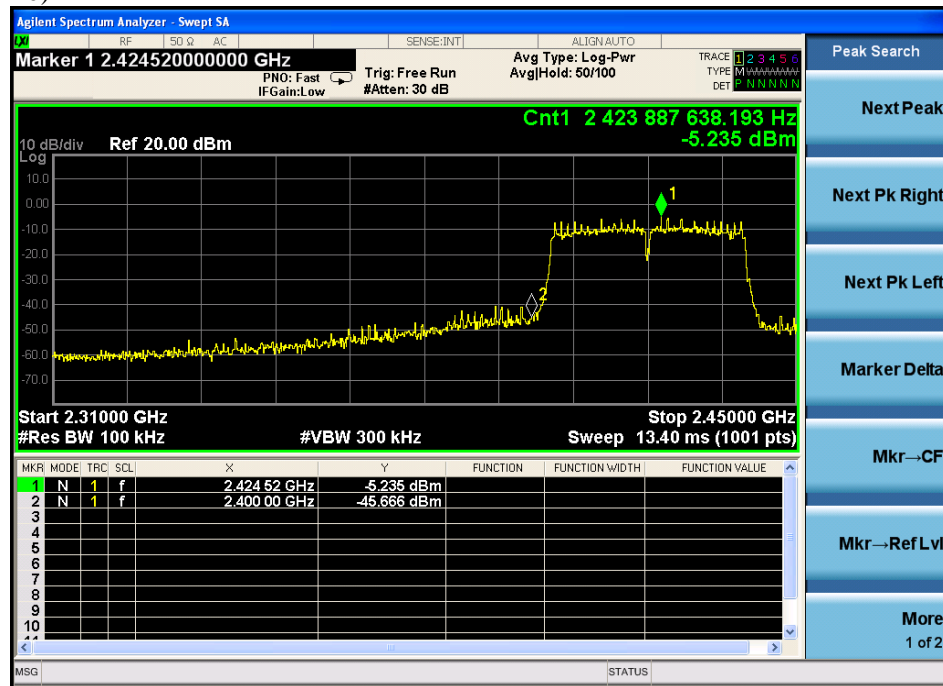
802.11g



802.11n (HT20)



802.11n (HT40)



## 11 Antenna Requirement

### 11.1 Standard 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 shall be considered sufficient to comply with the provisions of this Section. 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.

### 11.2 Result

The antennas used for this product are PCB Antenna for Bluetooth, no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0 dBi .

## **12 Test setup photos**

Please refer to test setup photo document.

## **13 Photos of EUT**

Please refer to EUT photo document.

**-----END OF THE REPORT-----**