



**TEST REPORT**  
**FCC ID: XT5PGI400 IC :8670A-PGI400**  
For  
Technologies Humanware Inc.  
Prodigi Connect 12

Model No. : PGI-400

Trade Name : N/A

Prepared for : Technologies Humanware Inc.

Address : 1800, Rue Michaud, Drumondville, Quebec, J2C 7G7, Canada

Prepared by : Shenzhen Alpha Product Testing Co., Ltd.

Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

Report No. : T1870080 05

Date of Receipt : January 13, 2017

Date of Test : January 13, 2017 – June 06, 2017

Date of Report : June 06, 2017

Version Number : REV0

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## DECLARATION

Applicant : Technologies Humanware Inc.

Manufacturer : Shenzhen Minghong Technology Limited.

Product : Prodigy Connect 12

(A) Model No. : PGI-400

(B) Trade Name : N/A

(C) Power supply : DC 7.4V from battery or DC 5V from adapter for charging

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2016,  
ANSI C63.4:2014 RSS-247 ISSUE 2**

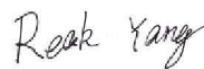
The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

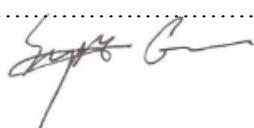
Tested by (name + signature).....:

Reak Yang  
Project Engineer

  
.....

Approved by (name + signature).....:

Simple Guan  
Project Manager

  
.....

Date of issue.....:

June 06, 2017

## 1 General Information

### 1.1 Description of Device (EUT)

Trade Name : N/A

EUT : Prodigi Connect 12

Model No. PGI-400

DIFF. : N/A

Antenna Type : Integrated antenna :2.81 dBi

Operation IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz,  
Frequency : 5745MHz-5825MHz

Modulation type : IEEE 802.11a: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500 MHz-5700MHz,  
5745MHz-5825MHz

Power Supply : IEEE 802.11n :OFDM(64QAM, 16QAM, QPSK, BPSK)  
IEEE 802.11a :OFDM(64QAM, 16QAM, QPSK, BPSK)

Power Supply : DC 7.4V from battery or DC 12V from adapter for charging

Hardware Version : X1162\_V1R2 20161125

Software Version : PGI-400\_20170117\_V2.0

Applicant : Technologies Humanware Inc.

Address : 1800, Rue Michaud, Drumondville, Quebec, J2C 7G7, Canada

Manufacturer : Shenzhen Minghong Technology Limited.

Address : Unit 906, South Block, Resources Tech Building, No.1 Song Ping Shan  
Road, High-Tech Park, Shenzhen.

### 1.2 Description of Test Facility

Shenzhen Alpha Product Testing Co., Ltd  
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

March 25, 2015 File on Federal Communication Commission

Registration Number: 203110

July 26, 2017 Certificated by IC

Registration Number: 12135A

## 2 EMC Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due to day
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2016.09.30	2017.09.29
Test Receiver	ROHDE&SCHWARZ	ESCI	101165	2016.09.29	2017.09.28
Spectrum analyzer	Agilent	E4407B	MY49510055	2016.09.29	2017.09.28
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2016.09.30	2017.09.29
Filter	KANGMAI	LPLF-LDC-1000-1959	1209002075	2016.09.29	2017.09.28
Filter	WAINWRIGHT	WHKX2.80 /18 G- 12SS	SN1	2016.09.29	2017.09.28
RF Cable	Resenberger	Cable 4	N/A	2016.09.29	2017.09.28
CMU200	ROHDE&SCHWARZ	CMU200	116785	2016.09.29	2017.09.28
Signal Analyzer	Agilent	N9020A	MY499100060	2016.09.29	2017.09.28
vector Signal Generator	Agilent	N5182A	MY49060042	2016.09.29	2017.09.28
vector Signal Generator	Agilent	E4438C	US44271917	2016.09.29	2017.09.28
Amplifier	HP	HP8347A	2834A00455	2016.09.29	2017.09.28
Amplifier	Teseq	LNA6901	72718	2016.09.29	2017.09.28
Amplifier	Agilent	8449B	3008A02664	2016.09.29	2017.09.28
Filter	WAINWRIGHT	WHKX1.0G /15G- 10SS	SN40	2016.09.29	2017.09.28
Test Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-102082-Wa	2016.09.29	2017.09.28
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2016.09.29	2017.09.28
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2016.7.21	2017.7.20
RF Cable	Resenberger	Cable 1	N/A	2016.09.29	2017.09.28
RF Cable	Resenberger	Cable 2	N/A	2016.09.29	2017.09.28
RF Cable	Resenberger	Cable 3	N/A	2016.09.29	2017.09.28
Power Sensor	Power Radio	RPR3006W	15100041SNO91	2016.09.29	2017.09.28
Power Sensor	Power Radio	RPR3006W	15100041SNO92	2016.09.29	2017.09.28
L.I.S.N.	SCHWARZBECK	NSLK8126	8126-466	2016.09.29	2017.09.28
L.I.S.N.	ROHDE&SCHWARZ	ENV216	101043	2016.09.29	2017.09.28
20dB Attenuator	ICPROBING	IATS1	82347	2016.09.29	2017.09.28

### 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 10kHz 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 a 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 100kHz 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:

$$\text{Freq (MHz) METER READING + ACF + CABLE = FS}$$
$$33.20 \text{ dBuV} + 10.36 \text{ dB} + 0.9 \text{ dB} = 44.46 \text{ dBuV/m @ 3m}$$

**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.

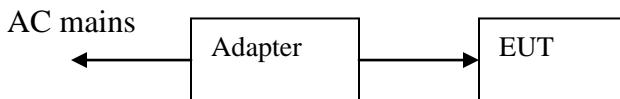
## 4 Summary of Measurement

### 4.1 Summary of test result

<b>Test Item</b>	<b>Test Requirement</b>	<b>Standards Paragraph</b>	<b>Result</b>
Spurious Emission	FCC PART 15 : 2016 IC RSS-247	Section 15.407(b)&15.209 Section 5.5 RSS-247 ISSUE 2	Compliance
Conduction Emission	FCC PART 15 : 2016 IC RSS Gen	Section 15.207 Section 7.2.4 RSS-247 ISSUE 2	Compliance
Bandwidth Test	FCC PART 15 : 2016 IC RSS-247	Section 15.407(a) RSS-247 5.1(2) RSS-247 ISSUE 2	Compliance
Peak Power	FCC PART 15 : 2016 IC RSS-247	Section 15.407(a) RSS-247 5.4(2) RSS-247 ISSUE 2	Compliance
Power Density	FCC PART 15 : 2016 IC RSS-247	Section 15.407(a) Section 5.2(2) RSS-247 ISSUE 2	Compliance
Undesirable emission	FCC PART 15 : 2016 IC RSS-247	Section 15.407(b) Section 5.5 RSS-247 ISSUE 2	Compliance
Antenna Requirement	FCC PART 15 : 2016 IC RSS Gen	Section 15.203 Section 7.1.4 RSS-247 ISSUE 2	Compliance

Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The adapter be used during Test)

### 4.2 Test connection



### 4.3 Assistant equipment used for test

Description	:	Adapter
Manufacturer	:	N/A
Model No.	:	SK03T1-1200250Z

### 4.4 Test mode

Tested mode, channel, and data rate information			
Mode	Data rate (Mbps) see Note	Channel	Frequency (MHz)
IEEE 802.11a	6	36	5180
	6	40	5200
	6	48	5240
	6	52	5260
	6	60	5300
	6	64	5320
	6	100	5500
	6	116	5580
	6	140	5700
	6	149	5745
	6	157	5785
	6	165	5825
EEE 802.11n HT20	6.5	36	5180
	6.5	40	5200
	6.5	48	5240
	6.5	52	5260
	6.5	60	5300
	6.5	64	5320
	6.5	100	5500
	6.5	116	5580
	6.5	140	5700
	6.5	149	5745
	6.5	157	5785
	6.5	165	5825

## 4.5 Channel list

For IEEE 802.11 a			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH36	5180	CH40	5200
CH44	5220	CH48	5240
CH52	5260	CH56	5280
CH60	5300	CH64	5320
CH100	5500	CH104	5520
CH108	5540	CH112	5560
CH116	5580	CH120	5600
CH124	5620	CH128	5640
CH132	5660	CH136	5680
CH140	5700	CH149	5745
CH151	5755	CH153	5765
CH157	5785	CH159	5795
CH161	5805	Ch165	5825
For IEEE 802.11 n/HT20			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH36	5180	CH40	5200
CH44	5220	CH48	5240
CH52	5260	CH56	5280
CH60	5300	CH64	5320
CH100	5500	CH104	5520
CH108	5540	CH112	5560
CH116	5580	CH120	5600
CH124	5620	CH128	5640
CH132	5660	CH136	5680
CH140	5700	CH149	5745
CH151	5755	CH153	5765
CH157	5785	CH159	5795
CH161	5805	Ch165	5825

#### 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	2.71dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.90 dB	Polarize: V
	3.92dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.26 dB	Polarize: H
	4.28 dB	Polarize: V
Uncertainty for conducted RF Power	0.16dB	

## 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

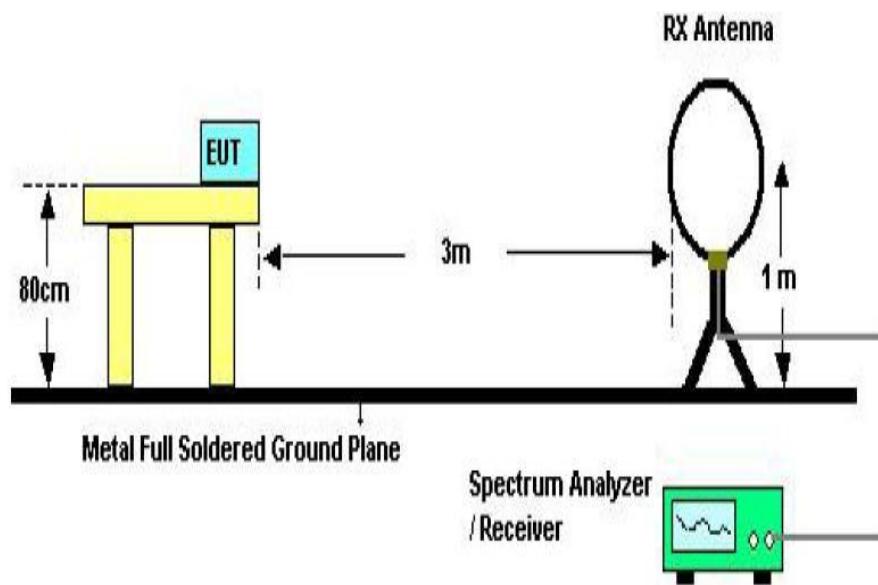
Harmonic emissions limits comply with below 54 dB<sub>UV</sub>/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a)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

**NOTE:**

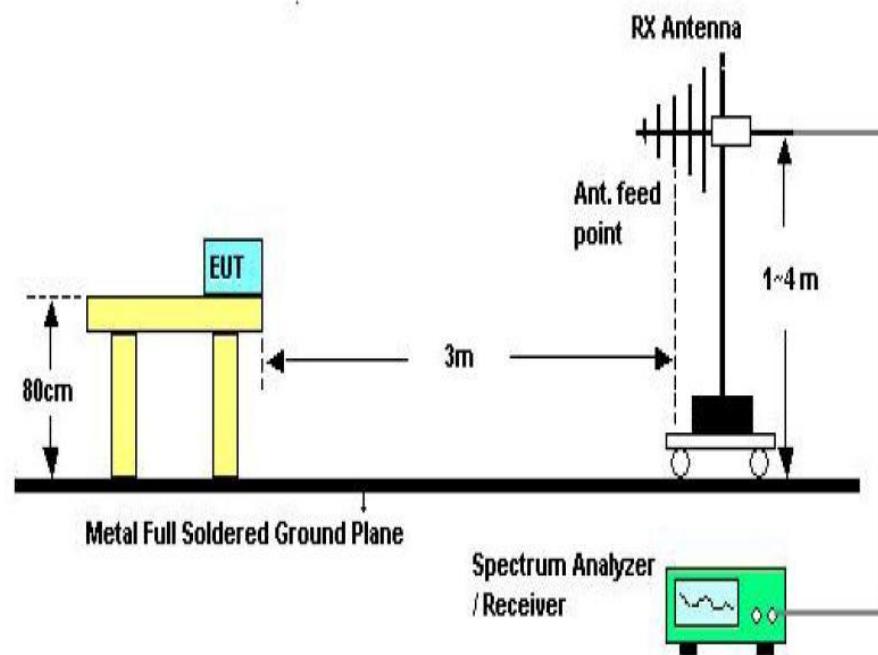
- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(Uv/m)

#### 5.1.2 Test Setup

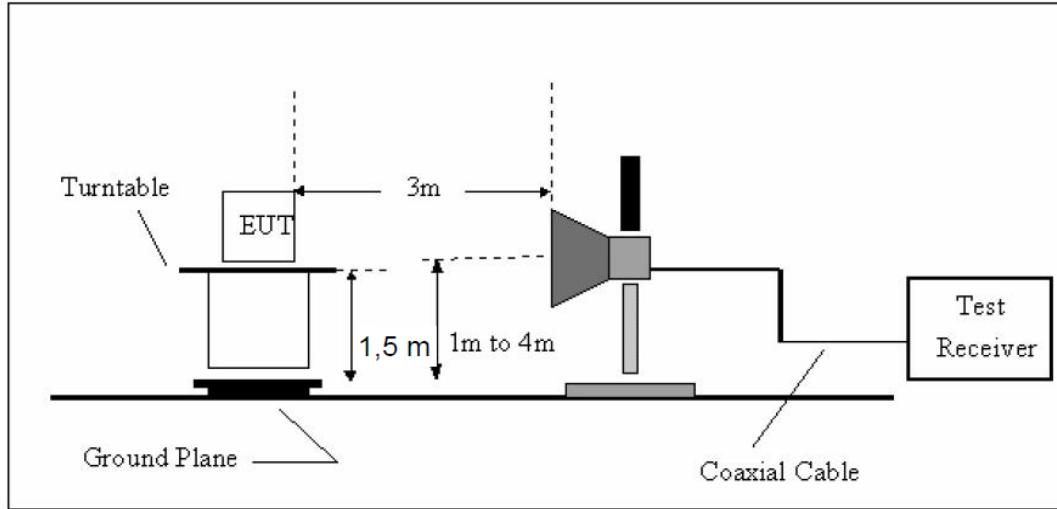
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

### 5.1.3 Test Procedure

- a) 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. The table was rotated 360 degrees to determine the position of the highest radiation
- b) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.
- c) 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 Qusia Peak Detector mode premeasured
- d) If Peak value comply 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.
- e) For the actual test configuration, please see the test setup photo.

#### 5.1.4 Test Equipment Setting For emission test Result

9KHz~150KHz	RBW 200Hz	VBW1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHZ~1GHz	RBW 120KHz	VBW 300KHz
Above 1GHz	RBW 1MHz	VBW 3MHz

#### 5.1.5 Test Condition

Continual Transmitting in maximum power.

#### 5.1.6 Test Result

We have scanned the 9KHz from 25GHz to the EUT.  
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

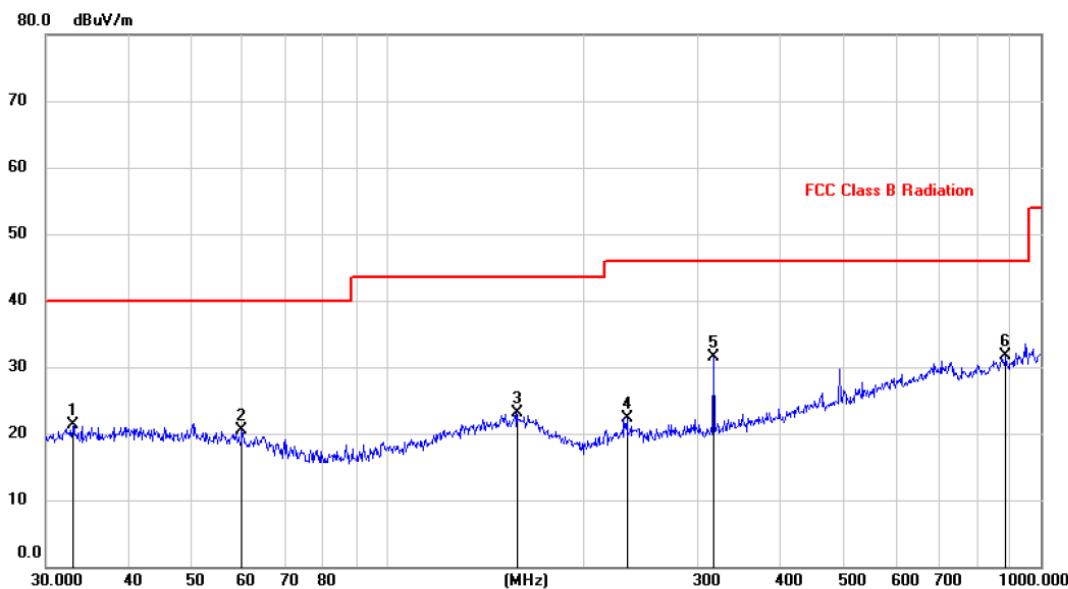
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Site LAB  
 Limit: FCC Class B Radiation  
 EUT:  
 M/N:  
 Mode:  
 Note:

Polarization: **Vertical**  
 Power: AC 120V/60Hz  
 Distance: 3m  
 Temperature: 23.9  
 Humidity: 46 %

### Radiated Emission Measurement

File : Prodigy Connect 12 Data #: 5 Date: 2017/3/8 Time: 10:28:50



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Comment
1		33.0949	7.94	13.44	21.38	40.00	-18.62	peak		
2		59.8588	7.48	13.00	20.48	40.00	-19.52	peak		
3		157.5587	8.46	14.57	23.03	43.50	-20.47	peak		
4		232.5318	10.43	11.84	22.27	46.00	-23.73	peak		
5		316.5889	17.72	13.79	31.51	46.00	-14.49	peak		
6	*	887.6097	8.96	22.83	31.79	46.00	-14.21	peak		

Note: 1. \*:Maximum data; x:Over limit; !:over margin.

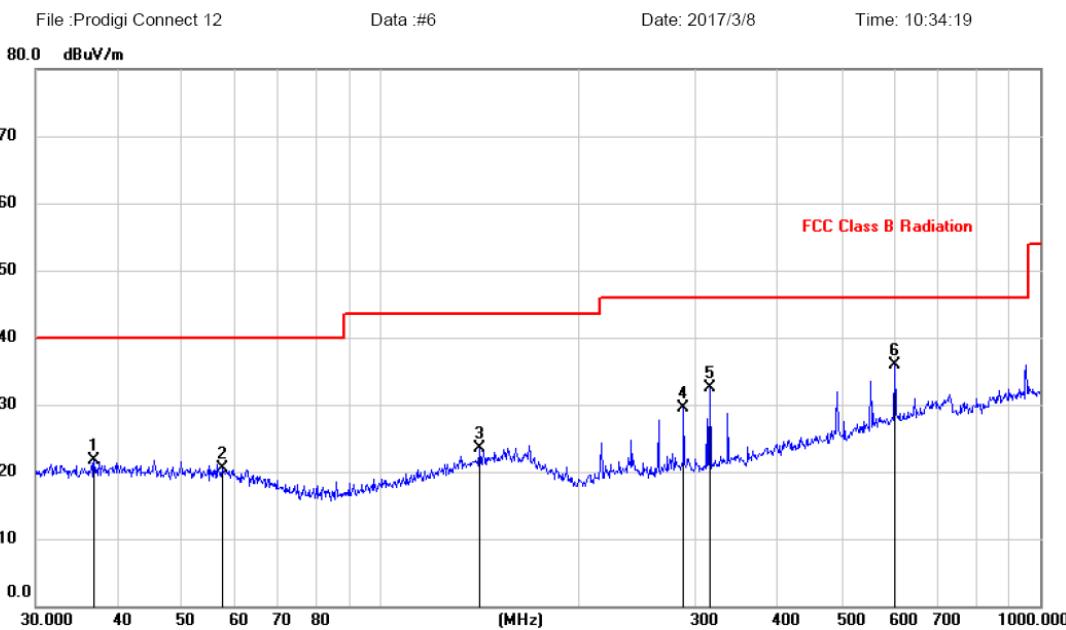
2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Remark1: All modes and channels have been tested and only worst data of 802.11a, 5180MHz are listed in this report.

Site LAB  
 Limit: FCC Class B Radiation  
 EUT:  
 M/N:  
 Mode:  
 Note:

Polarization: **Horizontal**  
 Power: AC 120V/60Hz  
 Distance: 3m  
 Temperature: 23.9  
 Humidity: 46 %

### Radiated Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Comment
1		36.7662	7.97	13.75	21.72	40.00	-18.28	peak		
2		57.5939	7.48	13.10	20.58	40.00	-19.42	peak		
3		141.3298	9.50	13.93	23.43	43.50	-20.07	peak		
4		287.9904	16.41	13.09	29.50	46.00	-16.50	peak		
5		316.5890	18.63	13.79	32.42	46.00	-13.58	peak		
6	*	601.4265	16.42	19.41	35.83	46.00	-10.17	peak		

Note: 1. \*:Maximum data; x:Over limit; !:over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

From 1G-25GHz  
IEEE 802.11a

<b>EUT</b>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 36 TX 5180MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10360	V	50.38	---	2.36	52.74	---	74	/	21.26	Peak
15540	V	47.13	---	4.52	51.65	---	74	/	22.35	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10360	H	50.26	---	2.36	52.62	---	74	/	21.38	Peak
15540	H	47.45	---	4.52	51.97	---	74	/	22.03	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 40 TX 5200MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10400	V	49.45	---	2.36	51.81	---	74	/	22.19	Peak
15600	V	47.80	---	4.52	52.32	---	74	/	21.68	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10400	H	48.71	---	2.36	51.07	---	74	/	22.93	Peak
15600	H	47.62	---	4.52	52.14	---	74	/	21.86	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 48 TX 5240MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10480	V	49.89	---	2.36	52.25	---	74	/	21.75	Peak
15720	V	47.45	---	4.52	51.97	---	74	/	22.03	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10480	H	49.08	---	2.36	51.44	---	74	/	22.56	Peak
15720	H	46.59	---	4.52	51.11	---	74	/	22.89	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 52 TX 5260MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10520	V	48.48	---	2.38	50.86	---	74	/	23.14	Peak
15780	V	46.89	---	4.52	51.41	---	74	/	22.59	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10520	H	47.84	---	2.38	50.22	---	74	/	23.78	Peak
15780	H	46.04	---	4.52	50.56	---	74	/	23.44	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH60 TX 5300MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10600	V	49.47	---	2.38	51.85	---	74	/	22.15	Peak
15900	V	47.78	---	4.54	52.32	---	74	/	21.68	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10600	H	48.93	---	2.38	51.31	---	74	/	22.69	Peak
15900	H	47.14	---	4.54	51.68	---	74	/	22.32	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 64 TX 5320MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10640	V	50.28	---	2.40	52.68	---	74	/	21.32	Peak
15940	V	47.30	---	4.56	51.86	---	74	/	22.14	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10640	H	49.81	---	2.40	52.21	---	74	/	21.79	Peak
15940	H	47.35	---	4.56	51.91	---	74	/	22.09	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 100 TX 5500MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11000	V	50.48	---	2.49	52.97	---	74	/	21.03	Peak
16500	V	47.68	---	4.64	52.32	---	74	/	21.68	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10360	H	50.14	---	2.49	52.63	---	74	/	21.37	Peak
15540	H	47.44	---	4.64	52.08	---	74	/	21.92	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 116 TX 5580MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11160	V	50.55	---	2.53	53.08	---	74	/	20.92	Peak
16740	V	47.97	---	4.67	52.64	---	74	/	21.36	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11160	H	49.98	---	2.53	52.51	---	74	/	21.49	Peak
16740	H	47.49	---	4.67	52.16	---	74	/	21.84	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 140 TX 5700MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11400	V	50.89	---	2.57	53.46	---	74	/	20.54	Peak
17100	V	48.24	---	4.68	52.92	---	74	/	21.08	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11400	H	50.2	---	2.57	52.77	---	74	/	21.23	Peak
17100	H	47.63	---	4.68	52.31	---	74	/	21.69	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 149 TX 5745MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11490	V	51.23	---	2.52	53.75	---	74	/	20.25	Peak
17235	V	47.34	---	4.69	52.03	---	74	/	21.97	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11490	H	50.25	---	2.52	52.77	---	74	/	21.23	Peak
17235	H	47.62	---	4.69	52.31	---	74	/	21.69	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 157 TX 5785MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11570	V	48.94	---	2.54	51.48	---	74	/	22.52	Peak
17355	V	47.51	---	4.71	52.22	---	74	/	21.78	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11570	H	50.07	---	2.54	52.61	---	74	/	21.39	Peak
17355	H	48.09	---	4.71	52.8	---	74	/	21.20	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 165 TX 5825MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11650	V	50.67	---	2.58	53.25	---	74	/	20.75	Peak
17475	V	47.88	---	4.69	52.57	---	74	/	21.43	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11650	H	49.89	---	2.58	52.47	---	74	/	21.53	Peak
17475	H	48.03	---	4.69	52.72	---	74	/	21.28	Peak
N/A										

**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 802.11n/HT20 with 5.2G

<b>EUT</b>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 36 TX 5180MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10360	V	50.08	---	2.36	52.44	---	74	/	21.56	Peak
15540	V	46.99	---	4.52	51.51	---	74	/	22.49	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10360	H	50.21	---	2.36	52.57	---	74	/	21.43	Peak
15540	H	46.93	---	4.52	51.45	---	74	/	22.55	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 40 TX 5200MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10400	V	49.29	---	2.36	51.65	---	74	/	22.35	Peak
15600	V	48.21	---	4.52	52.73	---	74	/	21.27	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10400	H	49.06	---	2.36	51.42	---	74	/	22.58	Peak
15600	H	47.99	---	4.52	52.51	---	74	/	21.49	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 48 5240MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10480	V	49.77	---	2.36	52.13	---	74	/	21.87	Peak
15720	V	47.16	---	4.52	51.68	---	74	/	22.32	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10480	H	48.98	---	2.36	51.34	---	74	/	22.66	Peak
15720	H	46.89	---	4.52	51.41	---	74	/	22.59	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 52 TX 5260MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10520	V	48.37	---	2.38	50.75	---	74	/	23.25	Peak
15780	V	47.32	---	4.52	51.84	---	74	/	22.16	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10520	H	48.16	---	2.38	50.54	---	74	/	23.46	Peak
15780	H	45.70	---	4.52	50.22	---	74	/	23.78	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH60 TX 5300MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10600	V	49.34	---	2.38	51.72	---	74	/	22.28	Peak
15900	V	47.92	---	4.54	52.46	---	74	/	21.54	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10600	H	49.20	---	2.38	51.58	---	74	/	22.42	Peak
15900	H	46.87	---	4.54	51.41	---	74	/	22.59	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 64 5320MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10640	V	50.03	---	2.40	52.43	---	74	/	21.57	Peak
15940	V	46.8	---	4.56	51.36	---	74	/	22.64	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10640	H	50.04	---	2.40	52.44	---	74	/	21.56	Peak
15940	H	47.12	---	4.56	51.68	---	74	/	22.32	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 100 TX 5500MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11000	V	50.05	---	2.49	52.54	---	74	/	21.46	Peak
16500	V	47.83	---	4.64	52.47	---	74	/	21.53	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
10360	H	49.86	---	2.49	52.35	---	74	/	21.65	Peak
15540	H	47.63	---	4.64	52.27	---	74	/	21.73	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 116 TX 5580MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11160	V	50.73	---	2.53	53.26	---	74	/	20.74	Peak
16740	V	47.75	---	4.67	52.42	---	74	/	21.58	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11160	H	49.84	---	2.53	52.37	---	74	/	21.63	Peak
16740	H	47.84	---	4.67	52.51	---	74	/	21.49	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 140 5700MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11400	V	50.85	---	2.57	53.42	---	74	/	20.58	Peak
17100	V	47.89	---	4.68	52.57	---	74	/	21.43	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11400	H	49.67	---	2.57	52.24	---	74	/	21.76	Peak
17100	H	27.44	---	4.68	32.12	---	74	/	21.88	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 149 TX 5745MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11490	V	51.38	---	2.52	53.90	---	74	/	20.10	Peak
17235	V	49.22	---	4.69	53.91	---	74	/	20.09	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11490	H	48.16	---	2.52	50.68	---	74	/	23.32	Peak
17235	H	47.35	---	4.69	52.04	---	74	/	21.96	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 157 TX 5785MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11570	V	51.22	---	2.54	53.76	---	74	/	20.24	Peak
17355	V	49.81	---	4.71	54.52	---	74	/	19.48	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11570	H	49.62	---	2.54	52.16	---	74	/	21.84	Peak
17355	H	48.38	---	4.71	53.09	---	74	/	20.91	Peak
N/A										

**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>	Prodigi Connect 12	<b>Model Name</b>	PGI-400
<b>Temperature</b>	26°C	<b>Relative Humidity</b>	56%
<b>Pressure</b>	960hPa	<b>Test voltage</b>	DC 7.4V from battery
<b>Test Mode</b>	CH 165 5825MHz		

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11650	V	51.99	---	2.58	54.57	---	74	/	19.43	Peak
17475	V	49.87	---	4.69	54.56	---	74	/	19.44	Peak
N/A										

<b>Freq. (MHz)</b>	<b>Ant. Pol H/V</b>	<b>Peak Reading (dBuV/ m)</b>	<b>AV Reading (dBuV/ m)</b>	<b>Ant. / CL CF (dB)</b>	<b>Actual Fs</b>		<b>Peak Limit (dBuV/m)</b>	<b>AV Limit (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>
					<b>Peak (dBuV/m)</b>	<b>AV (dBuV/m)</b>				
11400	H	49.67	---	2.57	52.24	---	74	/	21.76	Peak
17100	H	47.44	---	4.68	52.12	---	74	/	21.88	Peak
N/A										

**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.

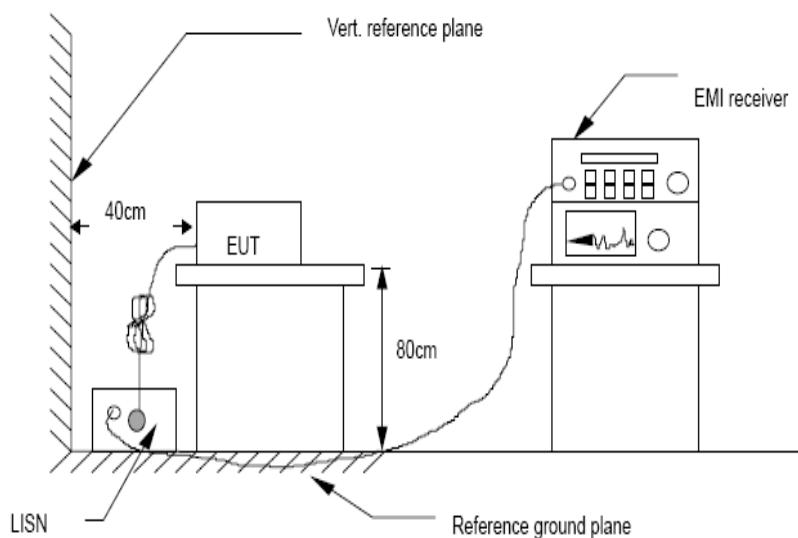
## 6 POWER LINE CONDUCTED EMISSION

### 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 range 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 ANSI C63.4:2014 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

### 6.4 Test Results

TX MODE

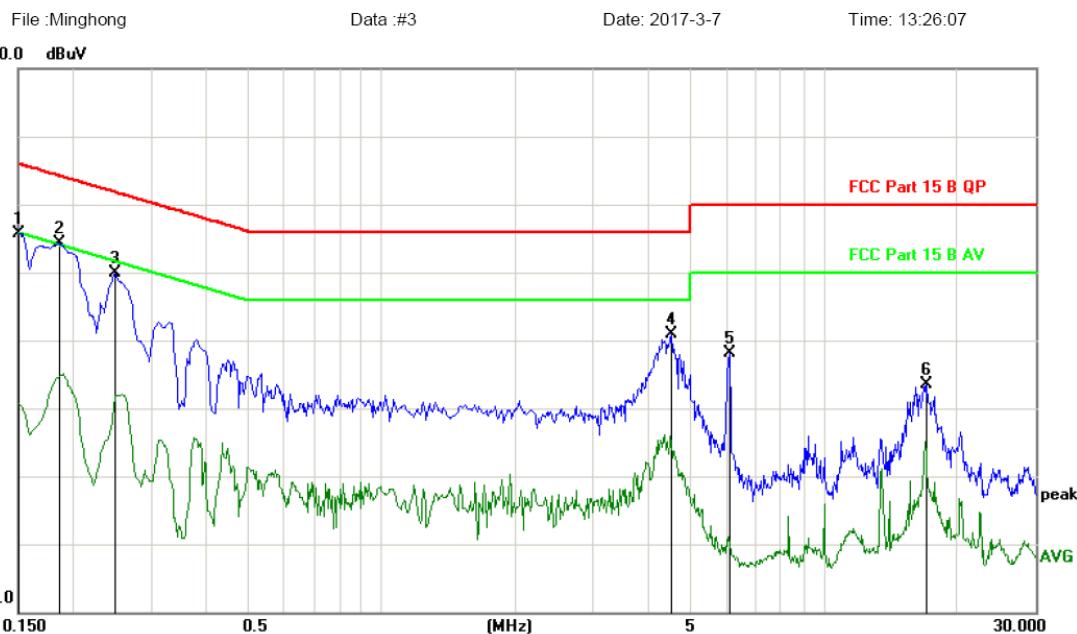
Worse case is reported only

**PASS**

Detailed information please see the following page.

Site LAB  
 Limit: FCC Part 15 B QP  
 EUT:  
 M/N:  
 Mode:  
 Note:

### Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dB	Margin Detector	Comment
1		0.1500	46.03	9.73	55.76	66.00	-10.24	peak
2	*	0.1860	44.52	9.74	54.26	64.21	-9.95	peak
3		0.2490	40.17	9.76	49.93	61.79	-11.86	peak
4		4.5205	30.81	10.17	40.98	56.00	-15.02	peak
5		6.1205	27.94	10.25	38.19	60.00	-21.81	peak
6		17.0805	23.08	10.47	33.55	60.00	-26.45	peak

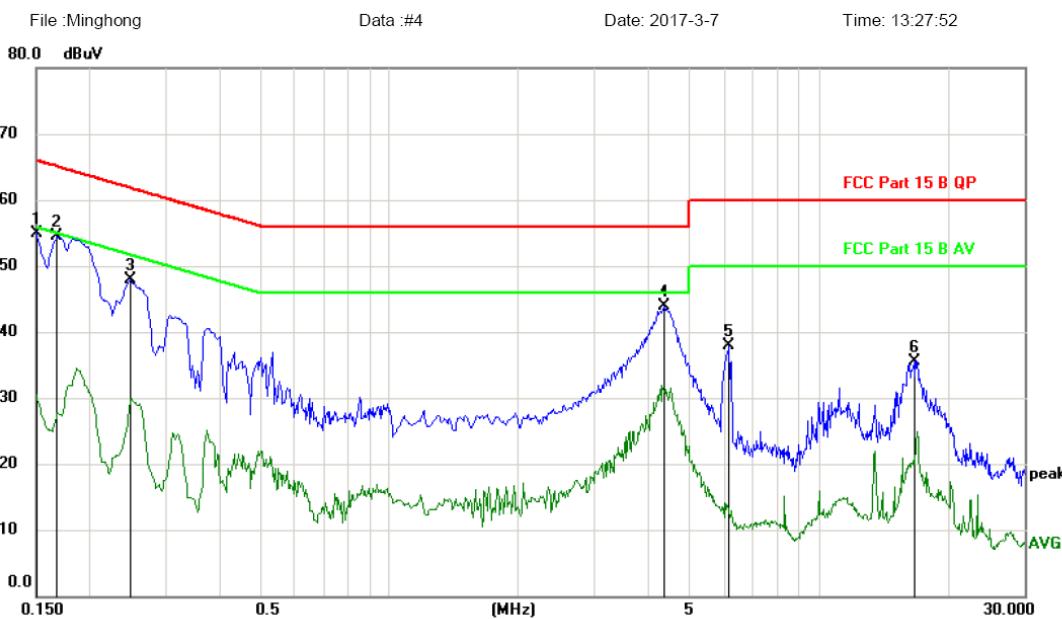
\*:Maximum data    x:Over limit    !:over margin

⟨Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Site LAB Phase: **N** Temperature: 23.3  
 Limit: FCC Part 15 B QP Power: AC 120V/60Hz Humidity: 50 %  
 EUT:  
 M/N:  
 Mode:  
 Note:

### Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	44.69	9.73	55.00	66.00	-11.00	peak	
2	*	0.1680	44.69	9.73	54.42	65.06	-10.64	peak	
3		0.2490	38.07	9.76	47.83	61.79	-13.96	peak	
4		4.3605	33.67	10.16	43.83	56.00	-12.17	peak	
5		6.1605	27.72	10.25	37.97	60.00	-22.03	peak	
6		16.6405	25.00	10.47	35.47	60.00	-24.53	peak	

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

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

## 7 Conducted Maximum Output Power

### 7.1 Test limit

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

Band 5725-5850MHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band

### 7.2 Test Procedure

Details see the 789033 D02 General U-NII Test Procedures New Rules v01r03.

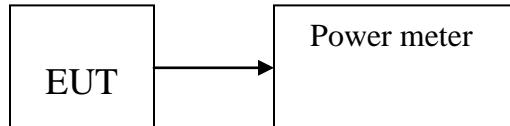
7.2.1 Place the EUT on the table and set it in transmitting mode.

7.2.2 Connect the EUT's antenna port to peak power meter by 20dB attenuator.

7.2.3 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.

### 7.3 Test Setup



### 7.4 Test Results

**PASS**

Detailed information please see the following page.

EUT: Prodigy Connect 12		M/N: PGI-400			
Test date: 2017-02-22		Test site: RF site			
Mode	Channel	Frequency (MHz)	PK Output power(dBm)	Limit (dBm)	Result
IEEE 802.11a	36	5180	12.14	24	Pass
	40	5200	11.89	24	Pass
	48	5240	12.24	24	Pass
	52	5260	12.54	24	Pass
	60	5300	12.39	24	Pass
	64	5320	12.36	24	Pass
	100	5500	12.64	24	Pass
	116	5580	12.53	24	Pass
	140	5700	12.38	24	Pass
	149	5745	12.84	30	Pass
	157	5785	12.75	30	Pass
	165	5825	12.61	30	Pass
EEE 802.11n HT20	36	5180	12.69	24	Pass
	40	5200	12.35	24	Pass
	48	5240	12.73	24	Pass
	52	5260	12.56	24	Pass
	60	5300	12.27	24	Pass
	64	5320	12.59	24	Pass
	100	5500	12.46	24	Pass
	116	5580	12.57	24	Pass
	140	5700	12.26	24	Pass
	149	5745	12.11	30	Pass
	157	5785	12.22	30	Pass
	165	5825	12.39	30	Pass
Conclusion: PASS					

## 8 PEAK POWER SPECTRAL DENSITY

### 8.1 Test limit

#### Band 5150-5250MHz

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

#### Band 5725-5850MHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band

### 8.2 Method of measurement

Details see the 789033 D02 General U-NII Test Procedures New Rules v01r03.

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

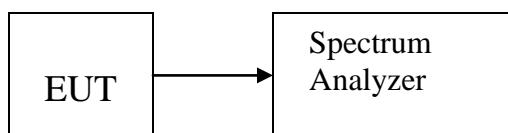
8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 1000kHz, VBW = 3000kHz, 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



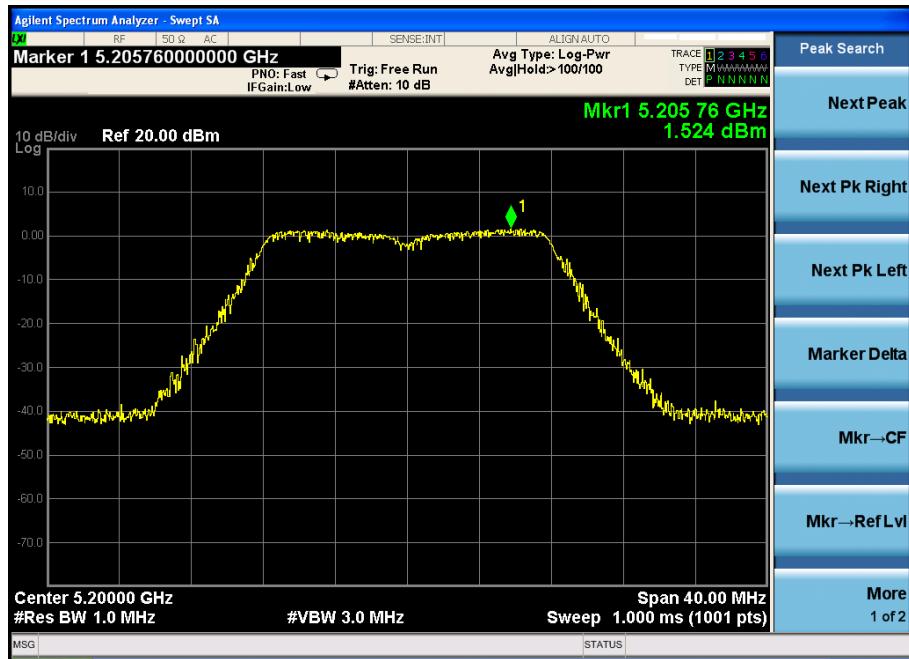
## 8.4 Test Results

EUT: Prodigy Connect 12		M/N: PGI-400			
Test date: 2017-02-22		Test site: RF site			
Mode	Channel	Frequency (MHz)	PEAK PSD (dBm)	Limit (dBm)	Result
IEEE 802.11a	36	5180	0.995	11	Pass
	40	5200	1.524	11	Pass
	48	5240	1.536	11	Pass
	52	5260	-0.381	11	Pass
	60	5300	-0.284	11	Pass
	64	5320	-0.713	11	Pass
	100	5500	-1.161	11	Pass
	116	5580	0.940	11	Pass
	140	5700	3.458	11	Pass
	149	5745	2.150	30	Pass
	157	5785	2.291	30	Pass
	165	5825	2.210	30	Pass
	36	5180	0.401	11	Pass
EEE 802.11n HT20	40	5200	1.327	11	Pass
	48	5240	1.762	11	Pass
	52	5260	-1.026	11	Pass
	60	5300	-0.841	11	Pass
	64	5320	-1.099	11	Pass
	100	5500	-1.027	11	Pass
	116	5580	0.681	11	Pass
	140	5700	2.631	11	Pass
	149	5745	2.496	30	Pass
	157	5785	2.671	30	Pass
	165	5825	1.478	30	Pass
Conclusion: PASS					

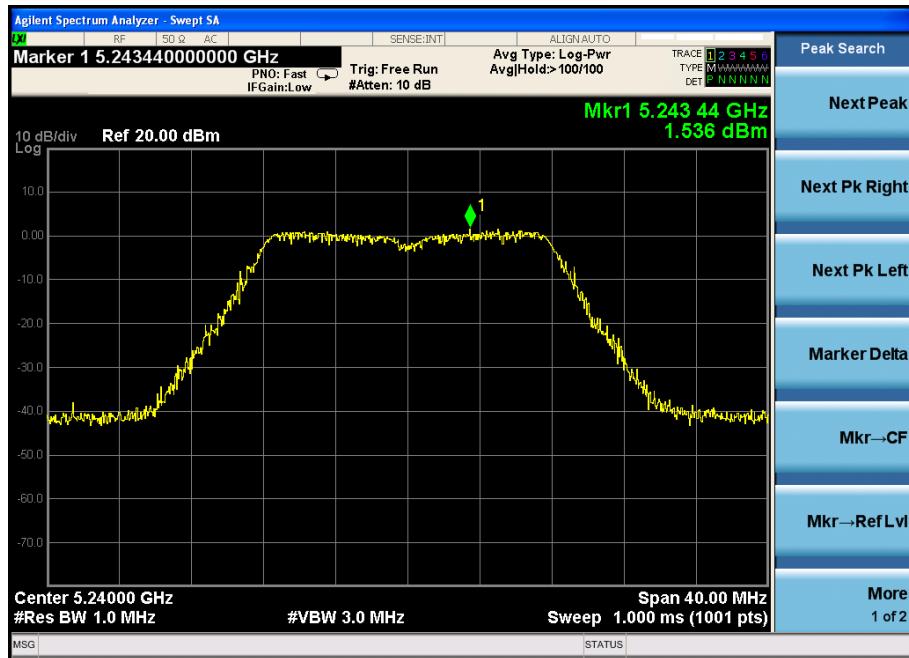
802.11a:  
CH 36 :



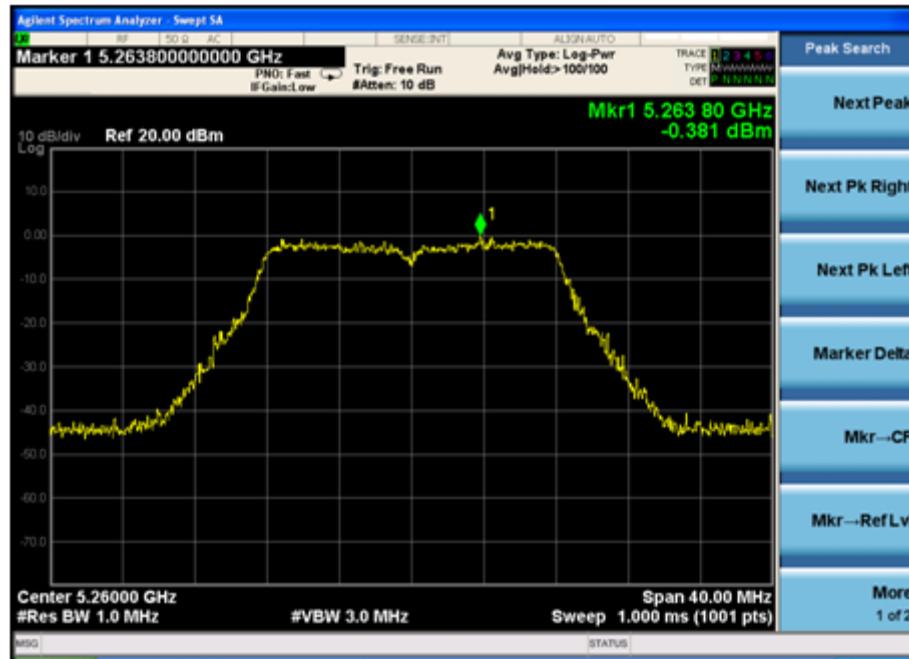
CH 40:



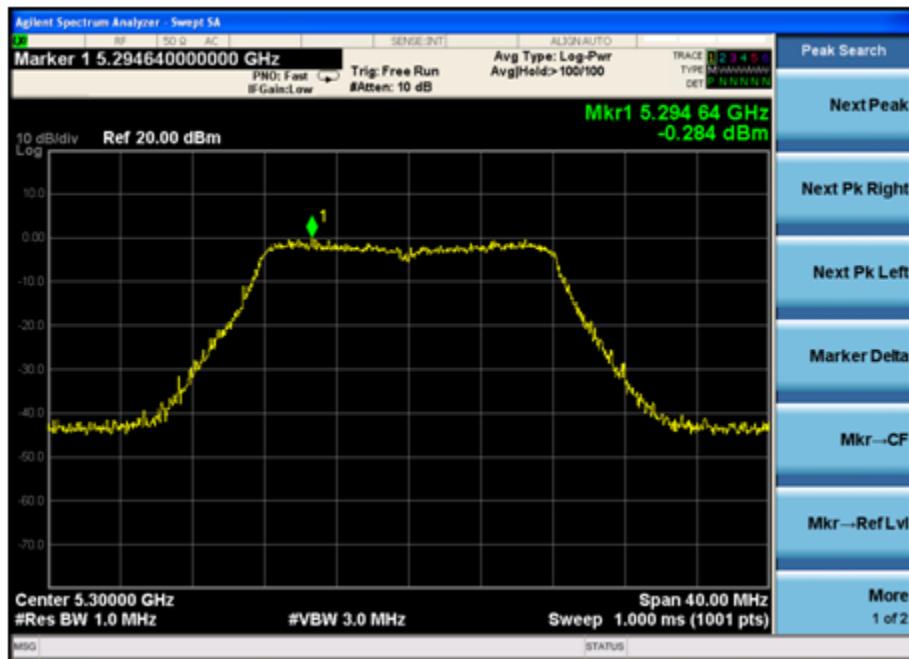
CH 48:



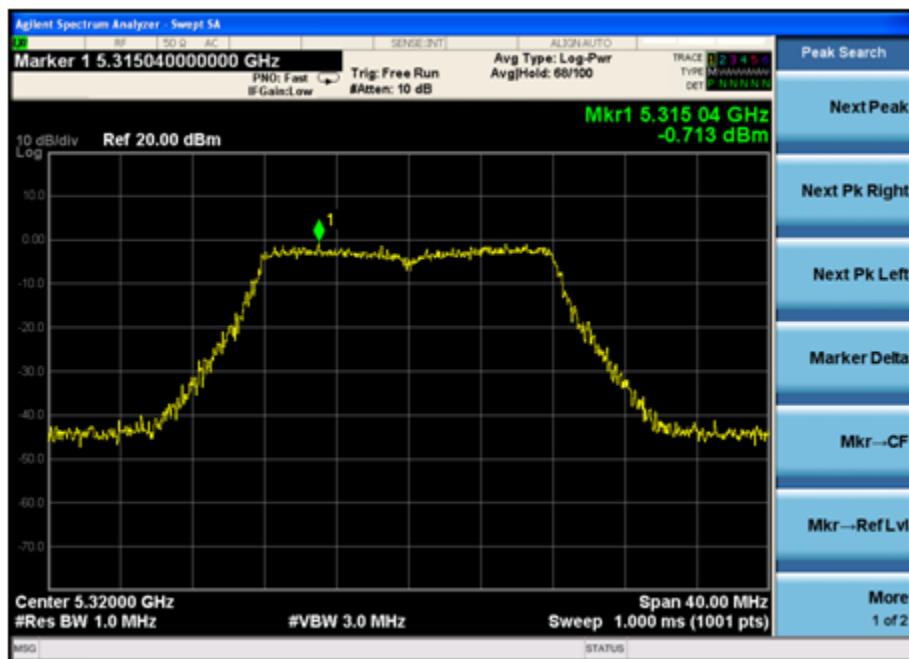
CH 52:



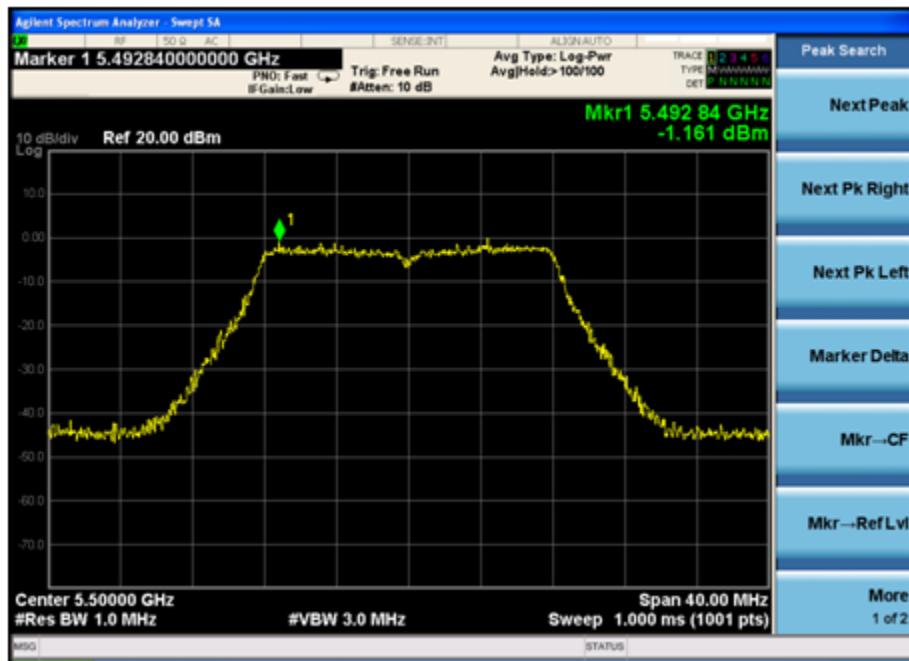
CH 60:



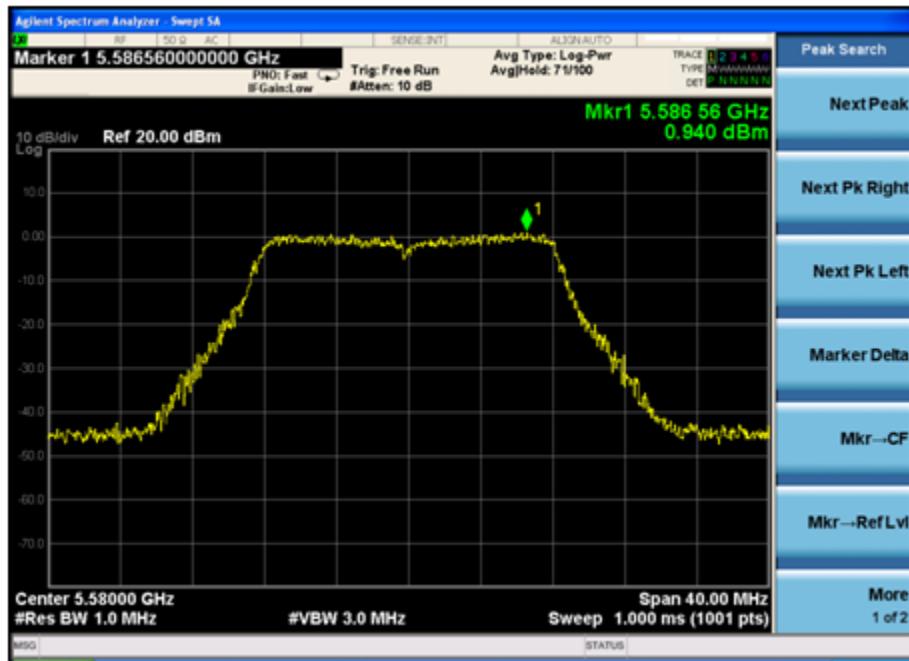
CH 64:



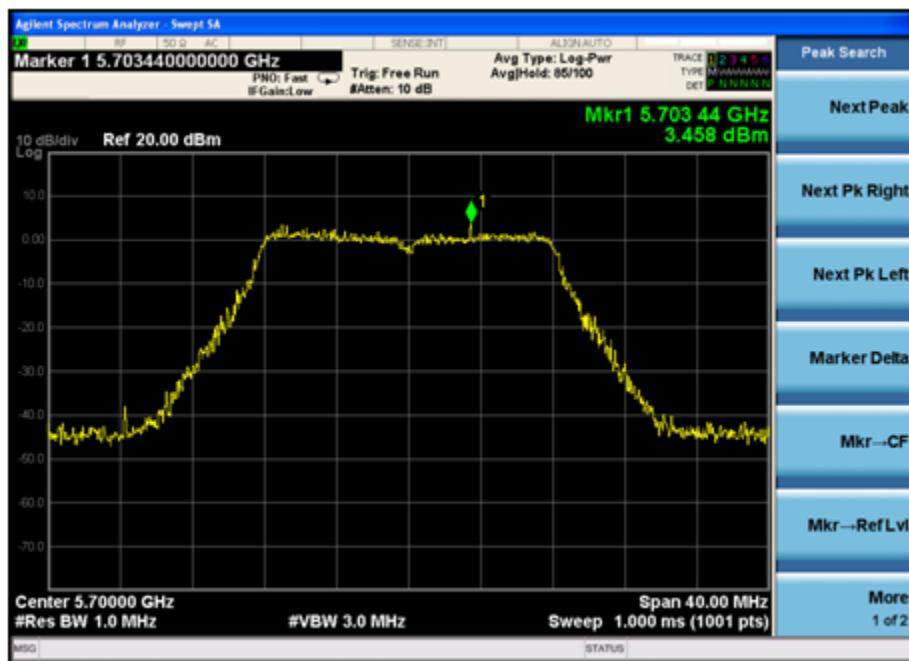
CH 100:



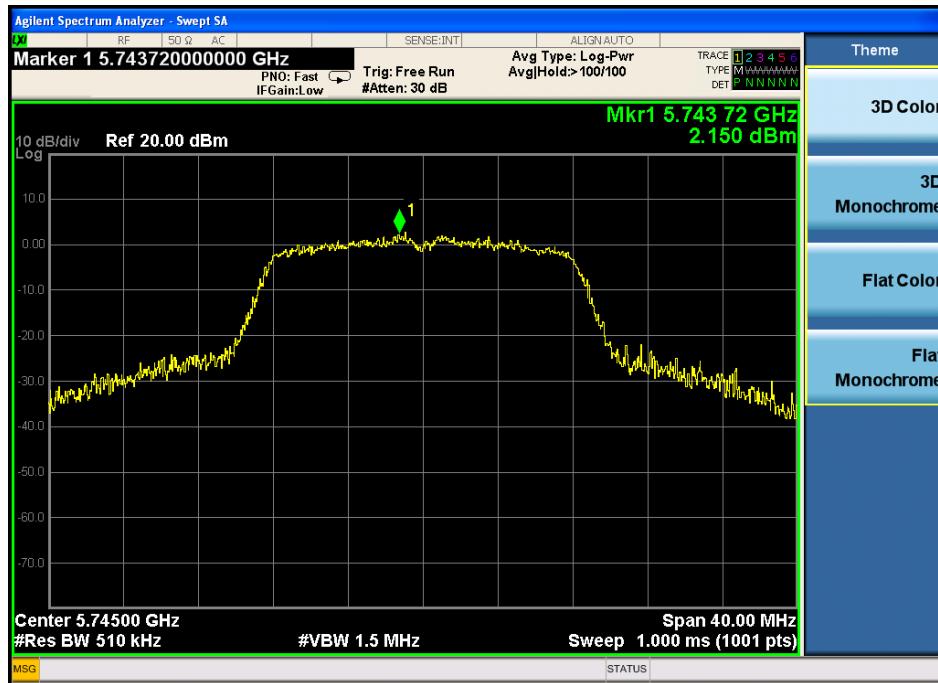
CH 116:



CH 140:



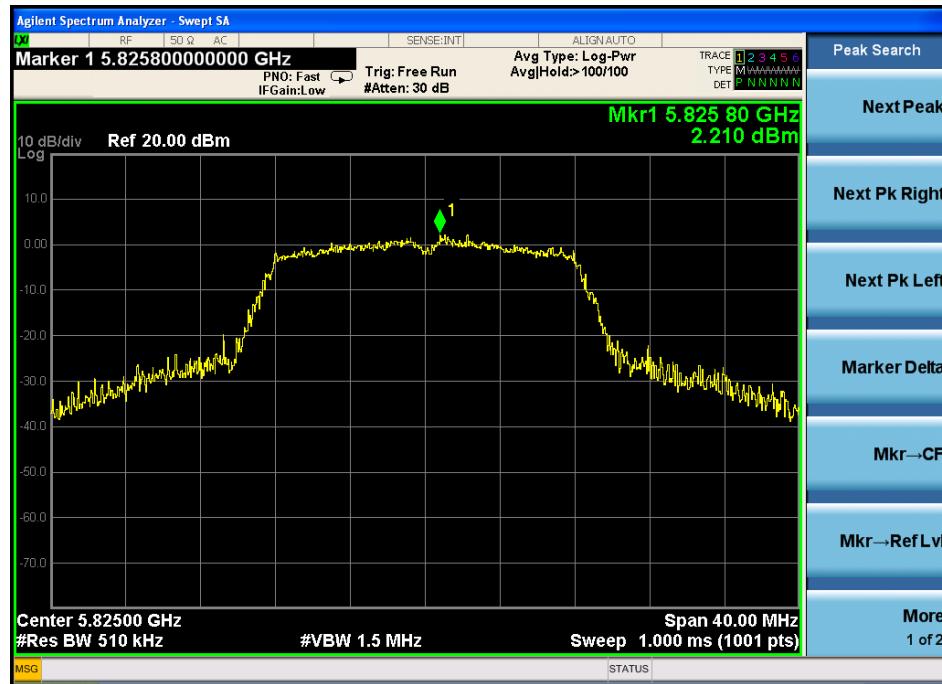
CH 149:



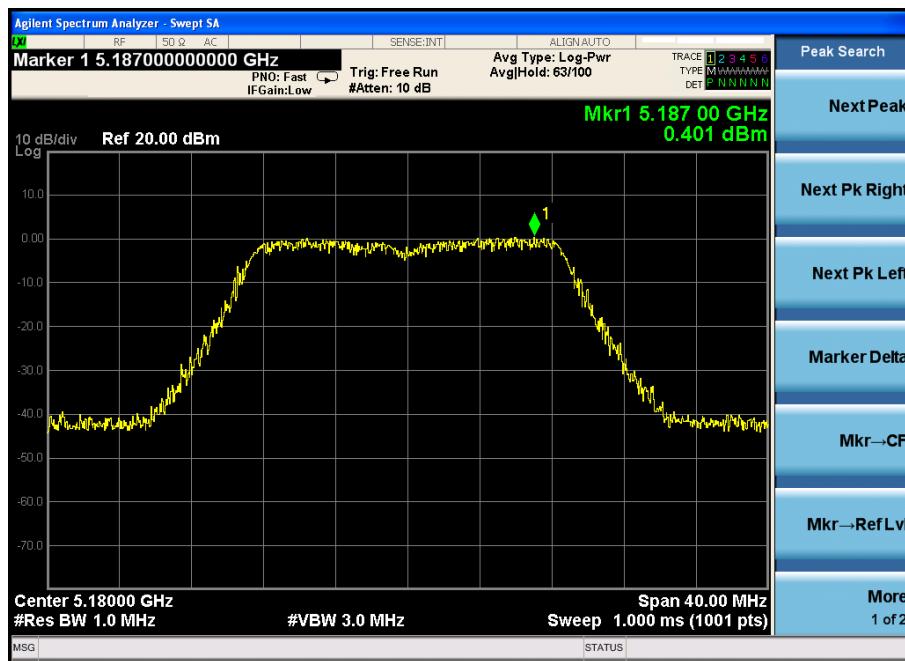
CH 157:



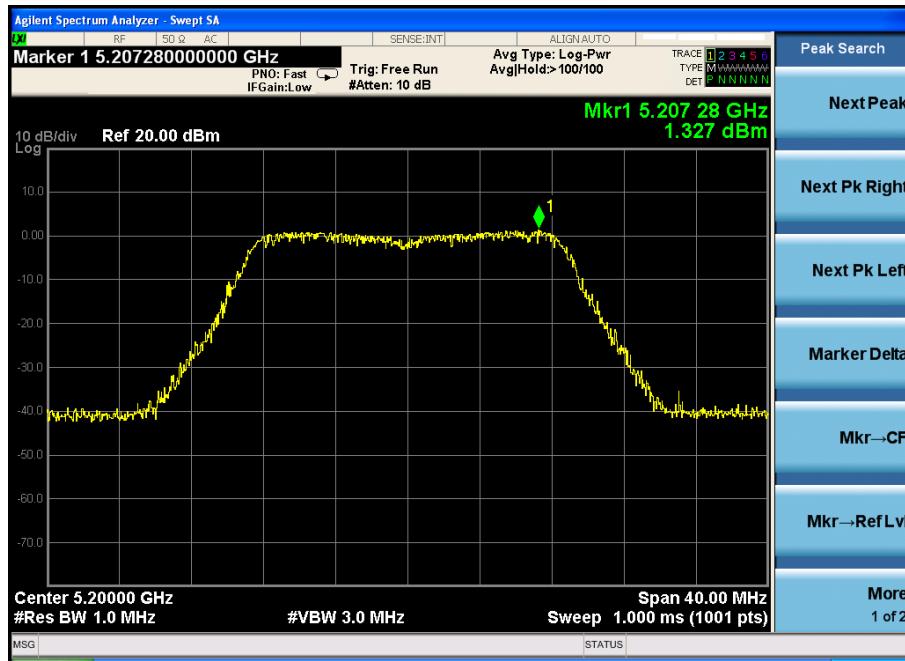
CH 165:



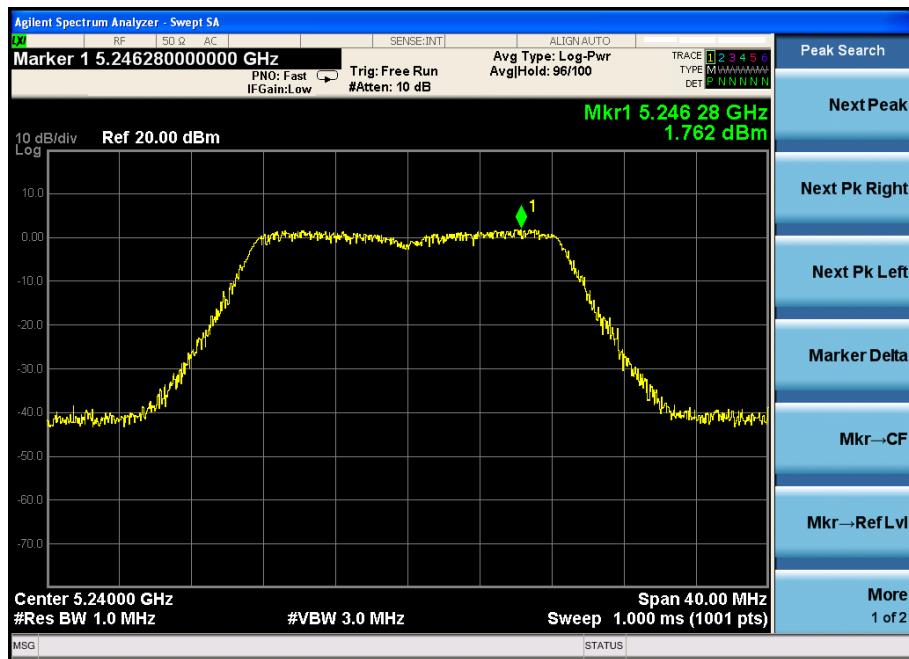
802.11n:  
CH 36 :



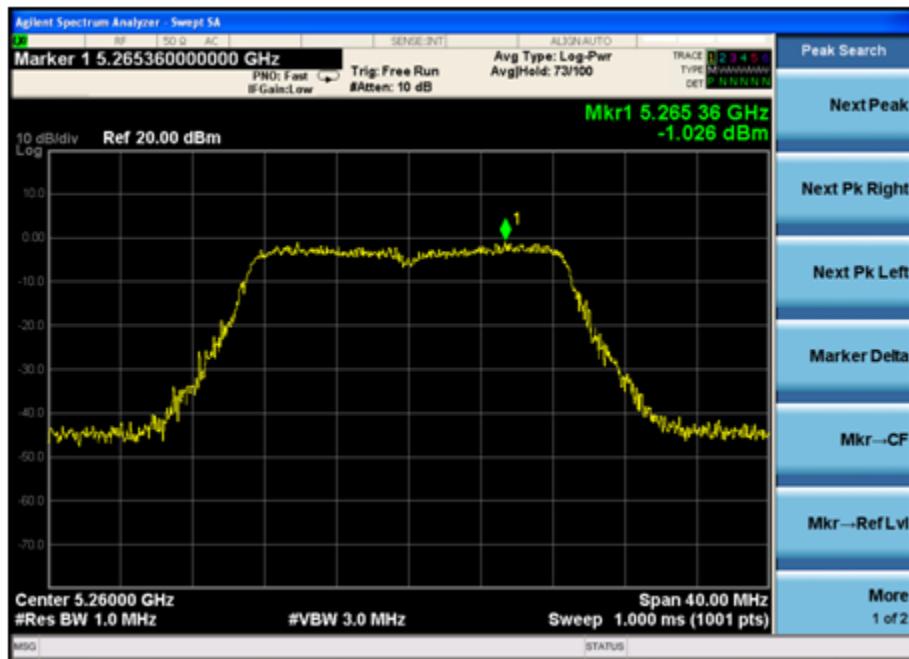
CH 40:



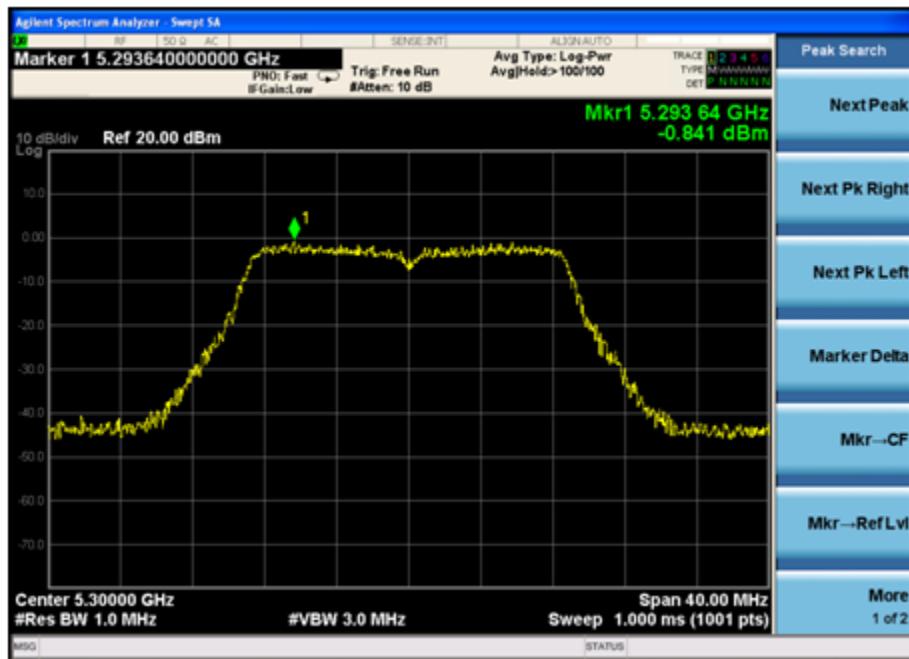
CH 48:



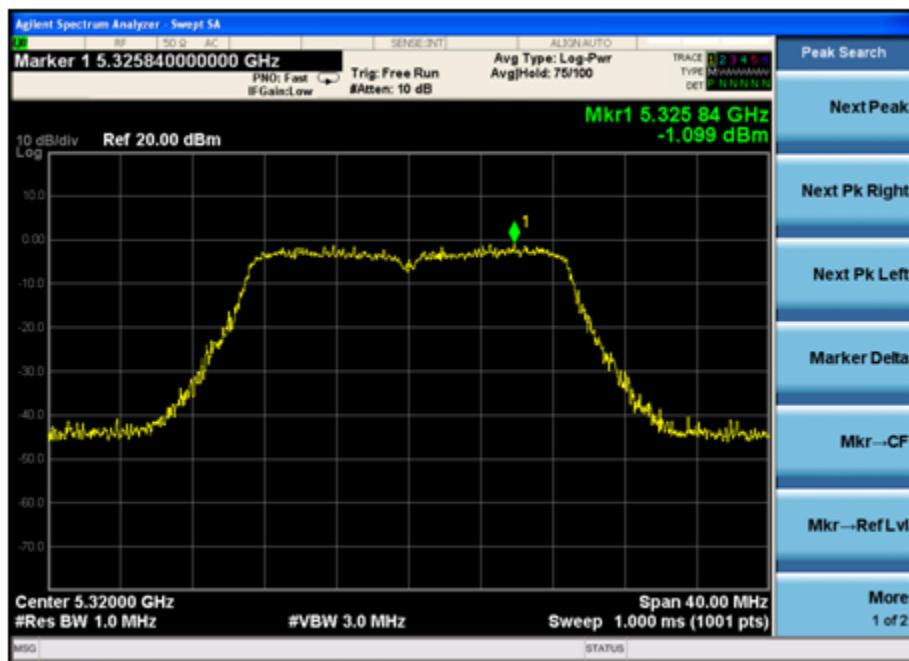
CH 52:



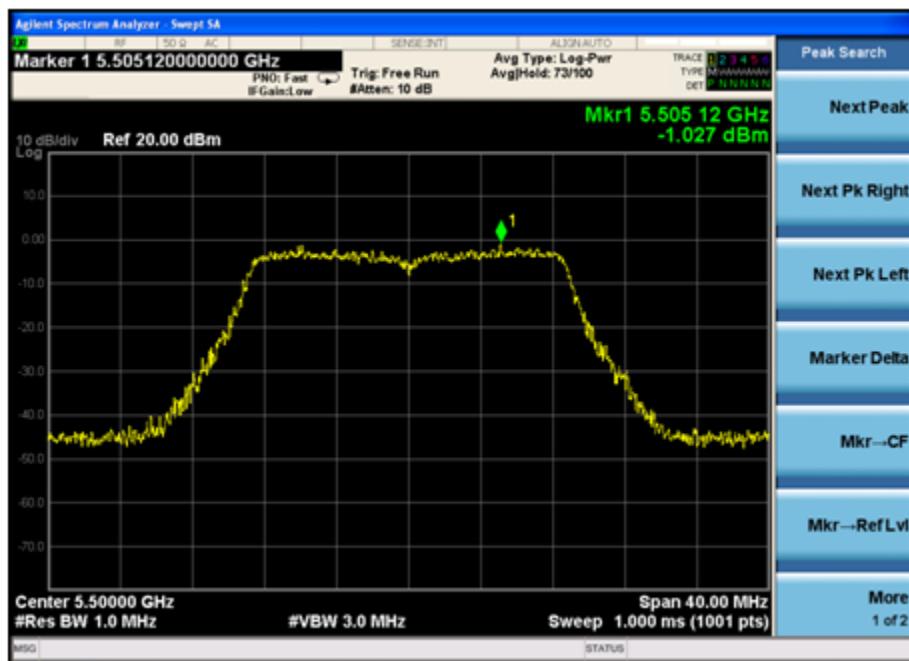
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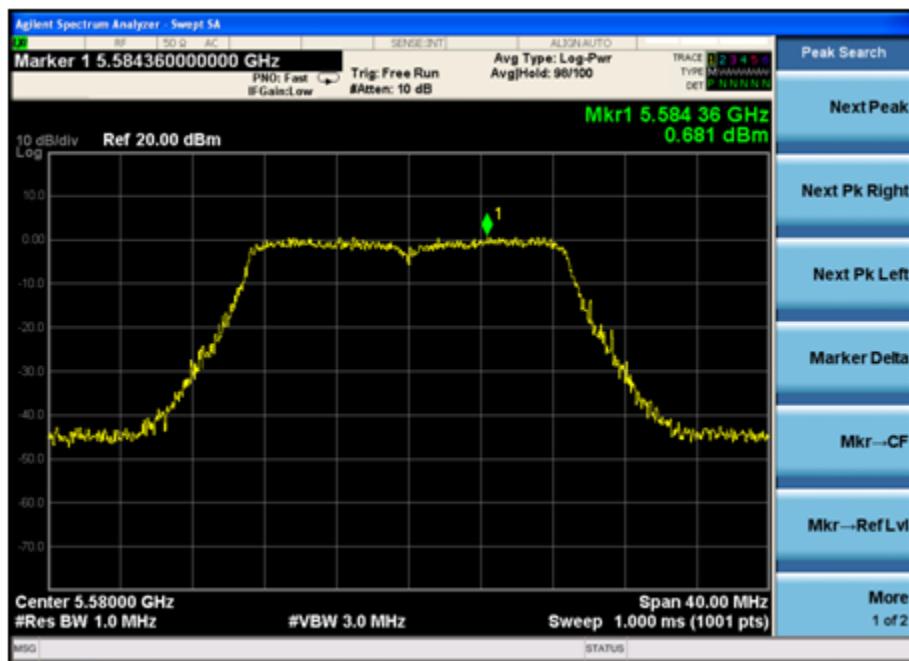
CH 64:



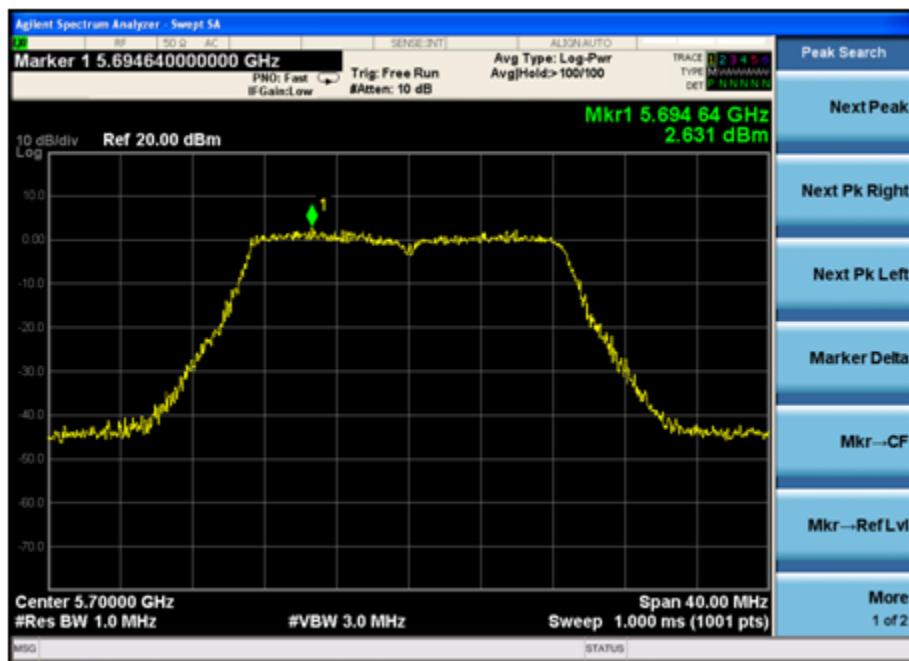
CH 100:



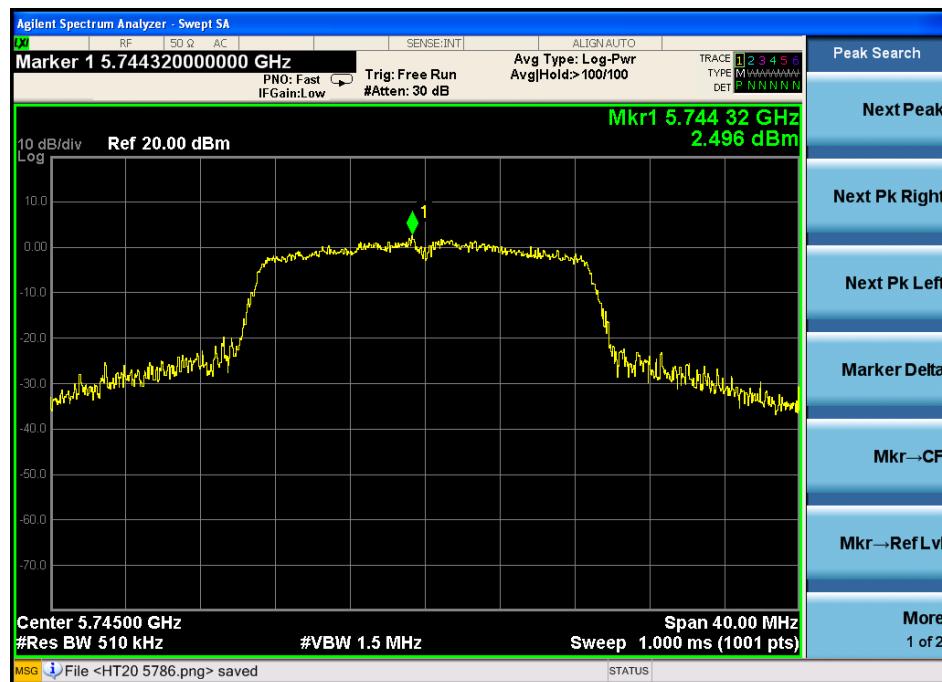
CH 116:



CH 140:



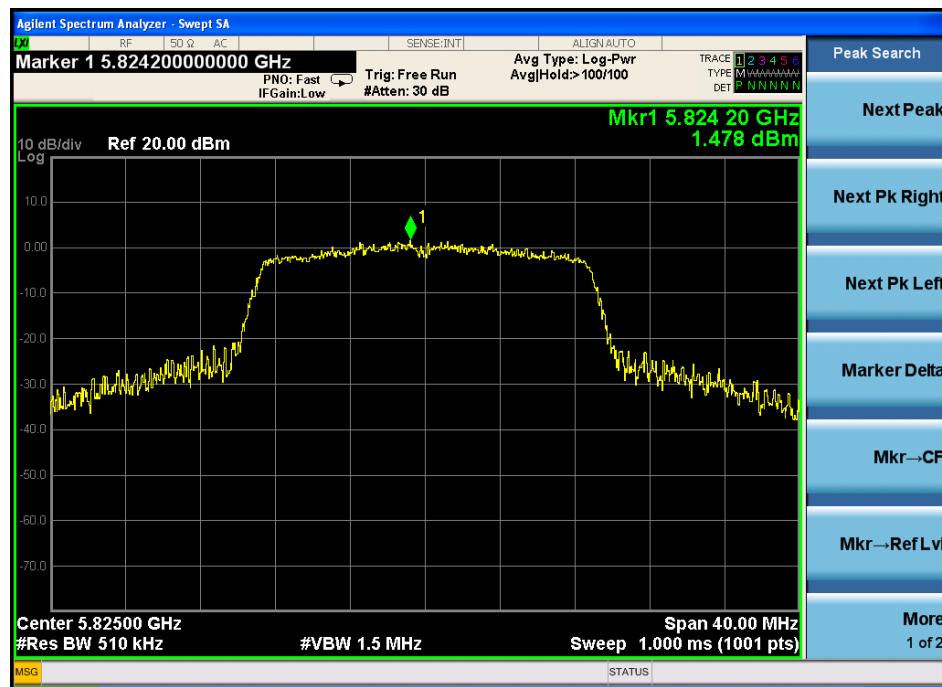
CH 149:



CH 157:



CH 165:



## 9 Bandwidth

### 9.1 Test limit

Please refer section 15.407

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

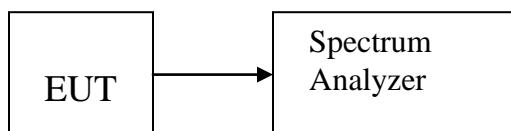
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less.

### 9.2 Method of measurement

Details see the 789033 D02 General U-NII Test Procedures New Rules v01r03.

- a) The bandwidth is measured at an amplitude level reduced 26dB 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 RBW = 1-5 % EBW, VBW  $\geq$  3RBW, Sweep time set auto, detail see the test plot.

### 9.3 Test Setup



### 9.4 Test Results

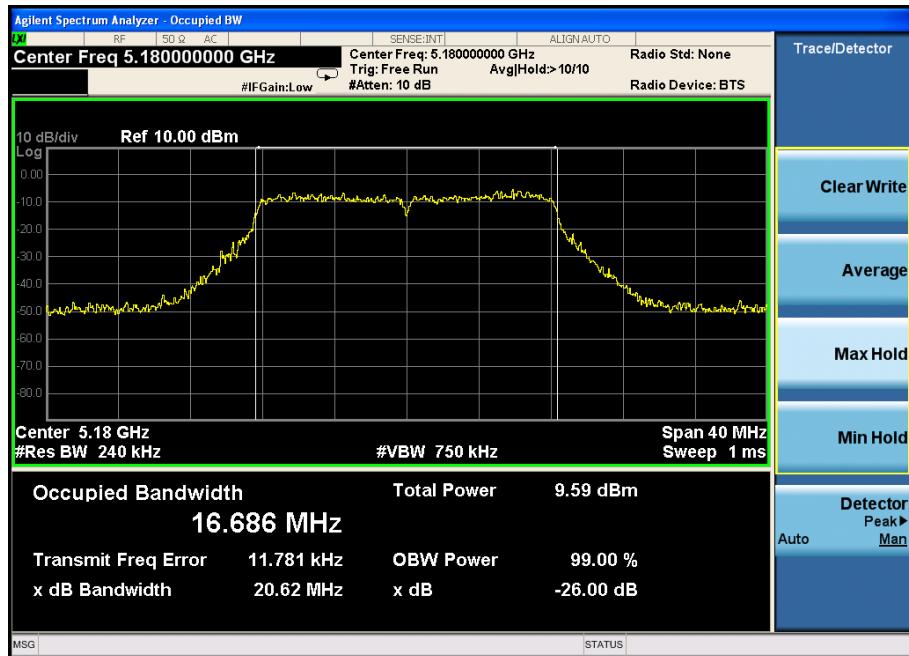
PASS.

Detailed information please see the following page.

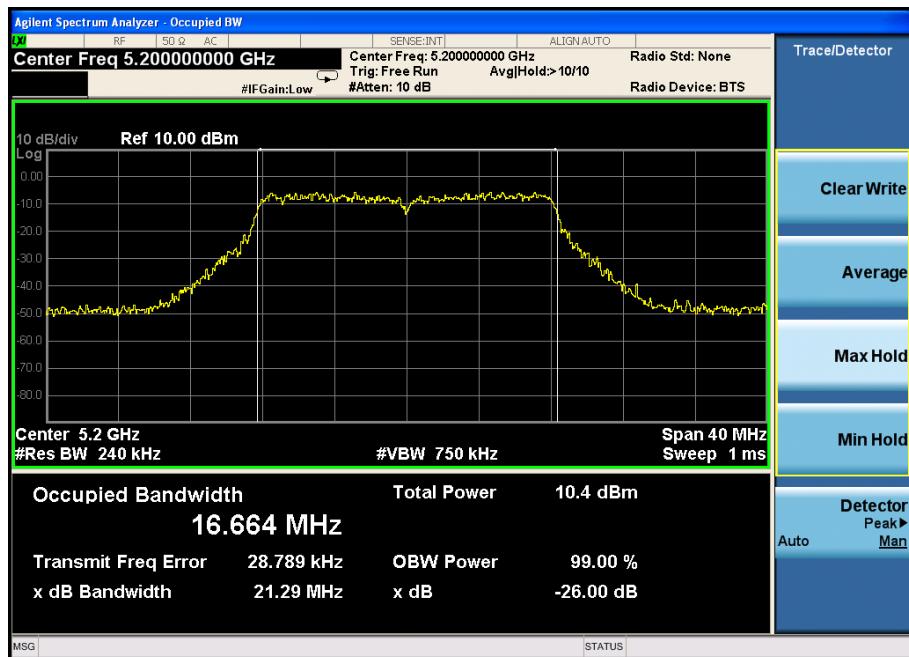
EUT: Prodigi Connect 12		M/N: PGI-400			
Test date: 2017-02-22		Test site: RF site			
Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	99% Bandwidth(MHz)	Result
IEEE 802.11a	36	5180	20.62	16.686	Pass
	40	5200	21.29	16.664	Pass
	48	5240	20.77	16.636	Pass
	52	5260	21.30	16.682	Pass
	60	5300	20.86	16.797	Pass
	64	5320	20.80	16.707	Pass
	100	5500	21.16	16.704	Pass
	116	5580	21.50	16.751	Pass
	140	5700	21.29	16.760	Pass
IEEE 802.11n HT20	36	5180	21.63	17.790	Pass
	40	5200	21.54	17.763	Pass
	48	5240	21.63	17.852	Pass
	52	5260	21.44	17.775	Pass
	60	5300	21.34	17.766	Pass
	64	5320	21.49	17.741	Pass
	100	5500	21.40	17.795	Pass
	116	5580	21.18	17.723	Pass
	140	5700	21.67	17.762	Pass
Conclusion: PASS					

EUT: Prodigi Connect 12		M/N: PGI-400			
Test date: 2017-02-22		Test site: RF site			
Mode	Channel	Frequency (MHz)	6dB Bandwidth(MHz)	99% Bandwidth(MHz)	Result
IEEE 802.11a	149	5745	15.17	16.450	Pass
	157	5785	15.11	16.417	Pass
	165	5825	16.05	16.427	Pass
IEEE 802.11n HT20	149	5745	15.08	17.588	Pass
	157	5785	15.17	17.583	Pass
	165	5825	16.93	17.574	Pass
Conclusion: PASS					

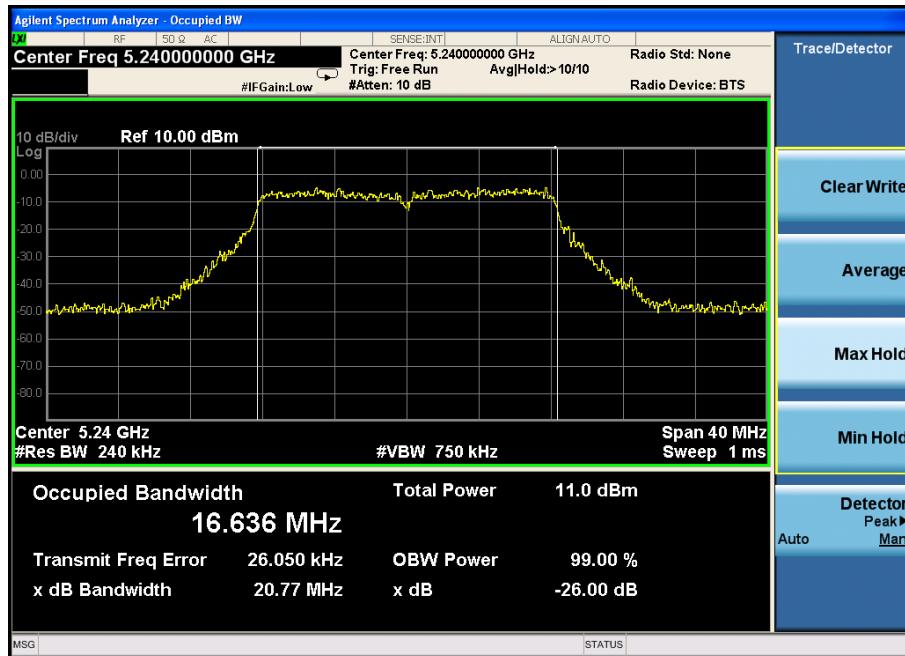
802.11a:  
CH 36 :



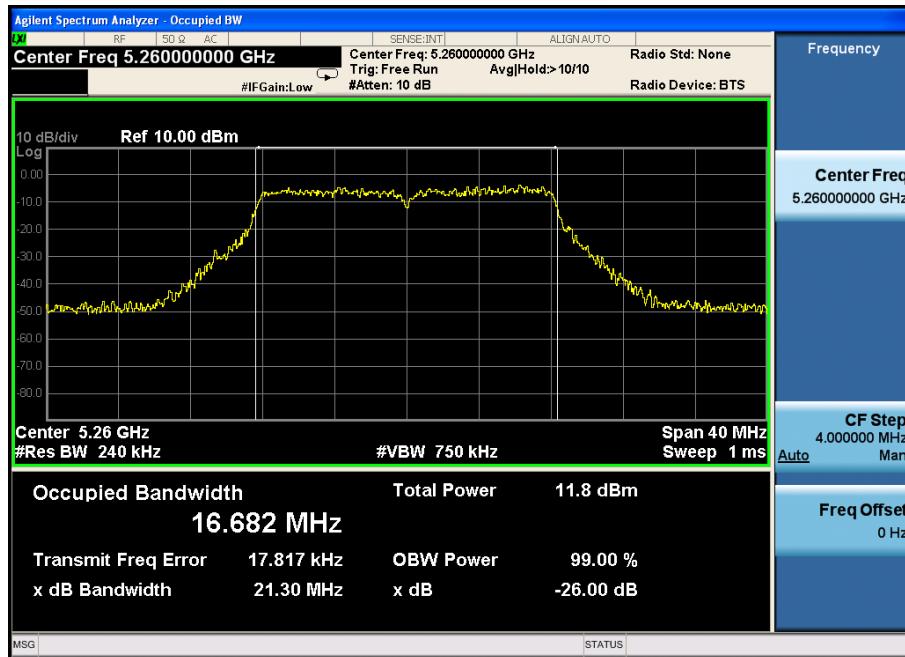
CH 40:



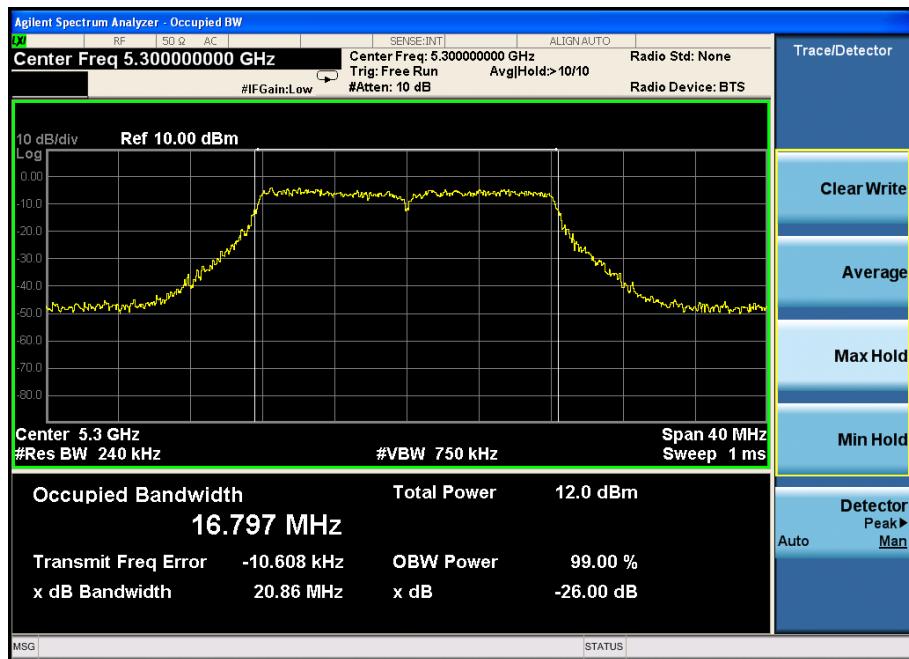
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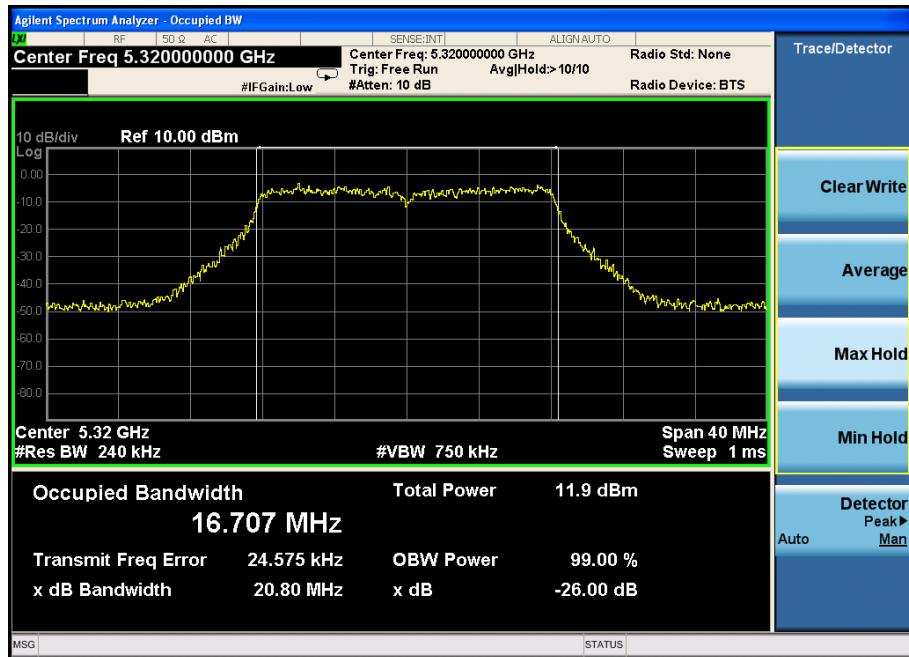
CH 52:



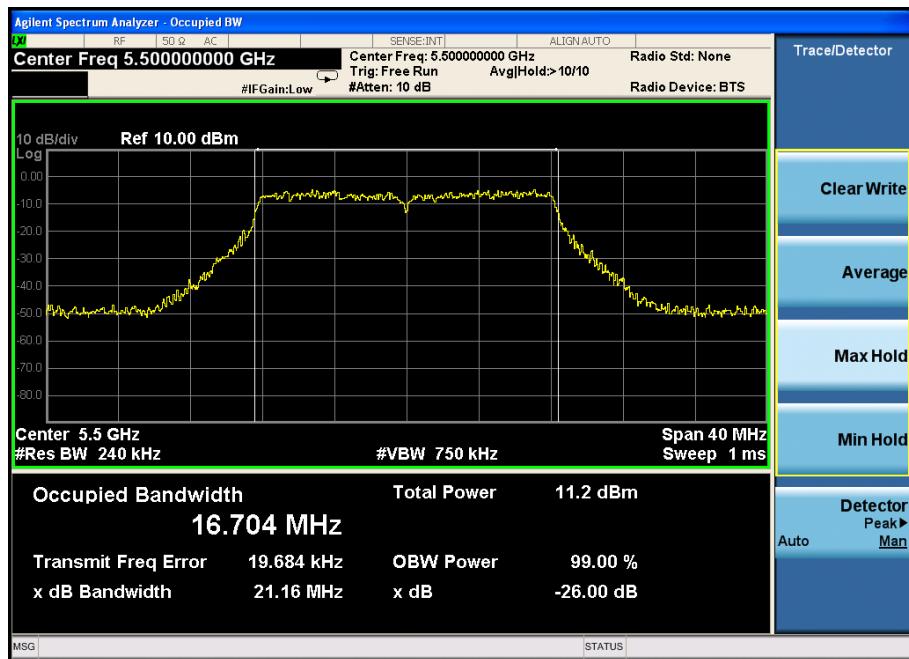
CH 60:



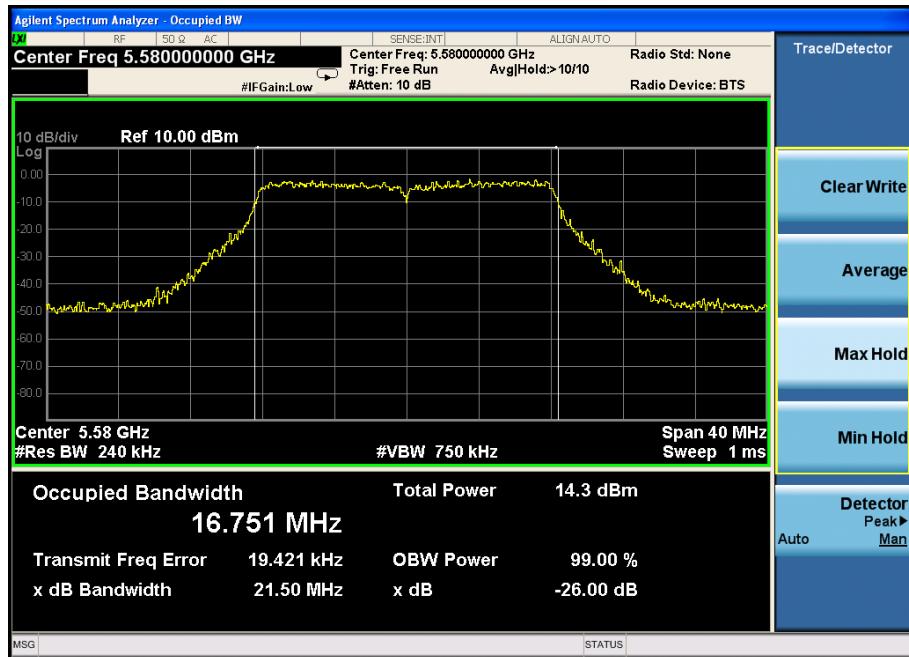
CH 64:



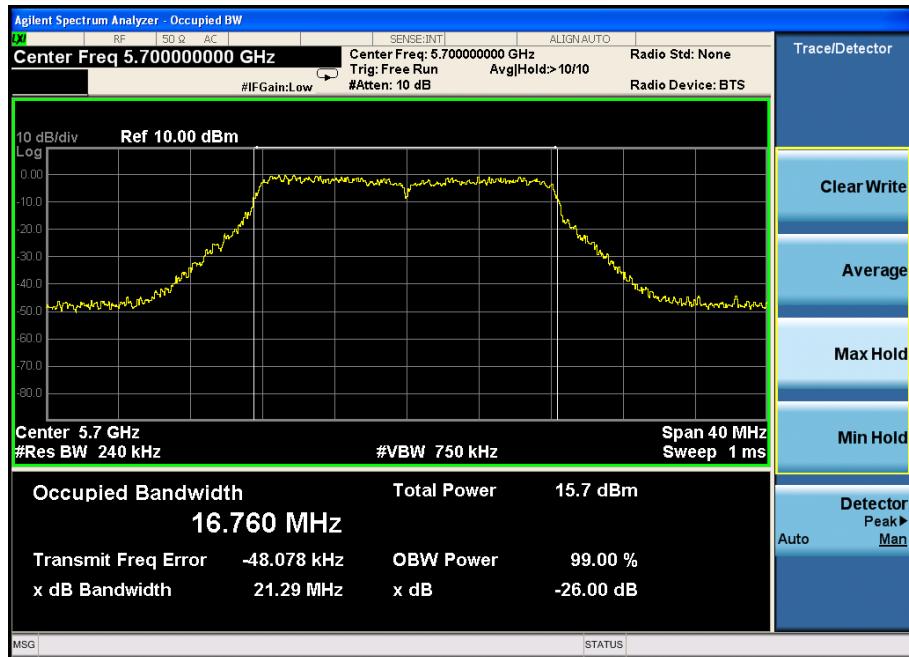
CH 100:



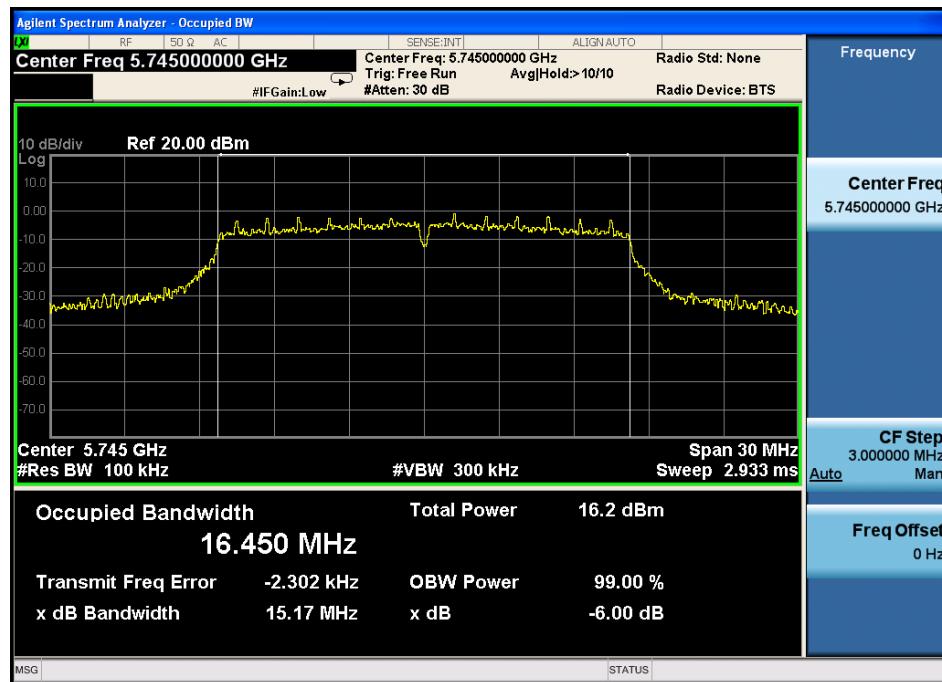
CH 116:



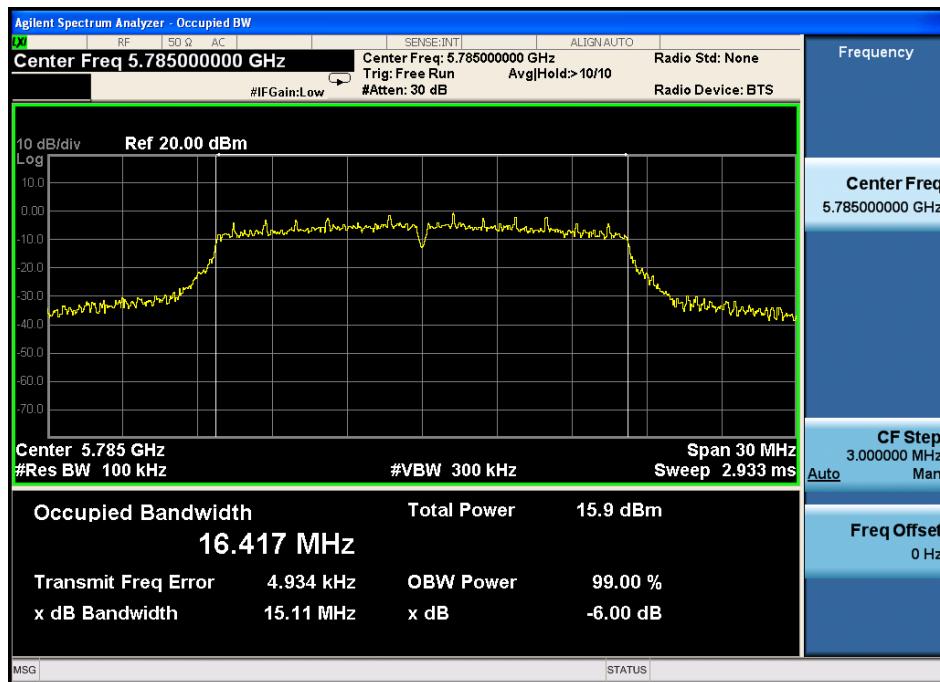
CH 140:



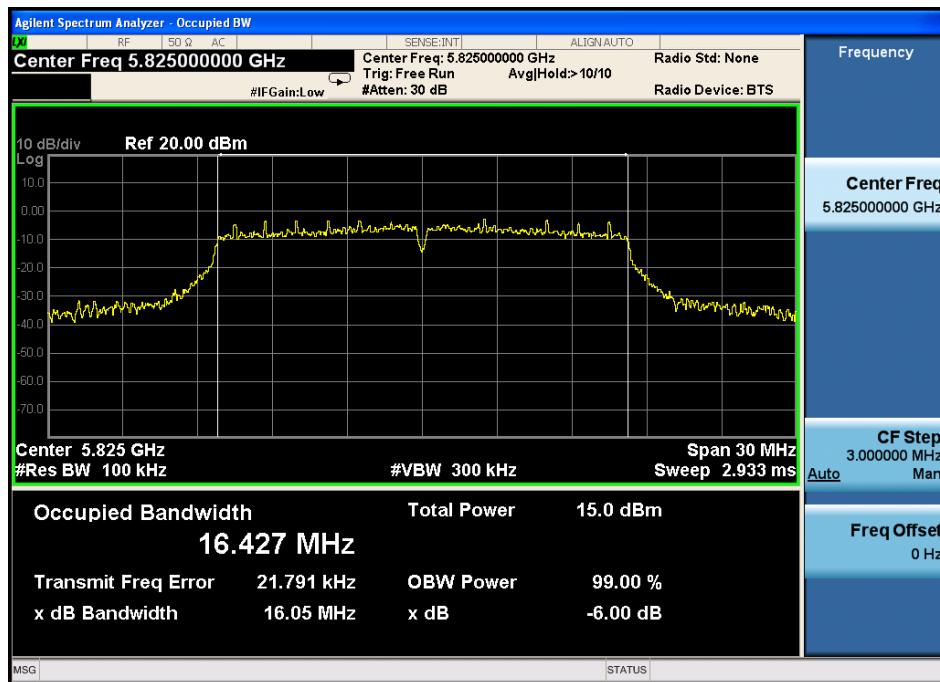
CH 149:



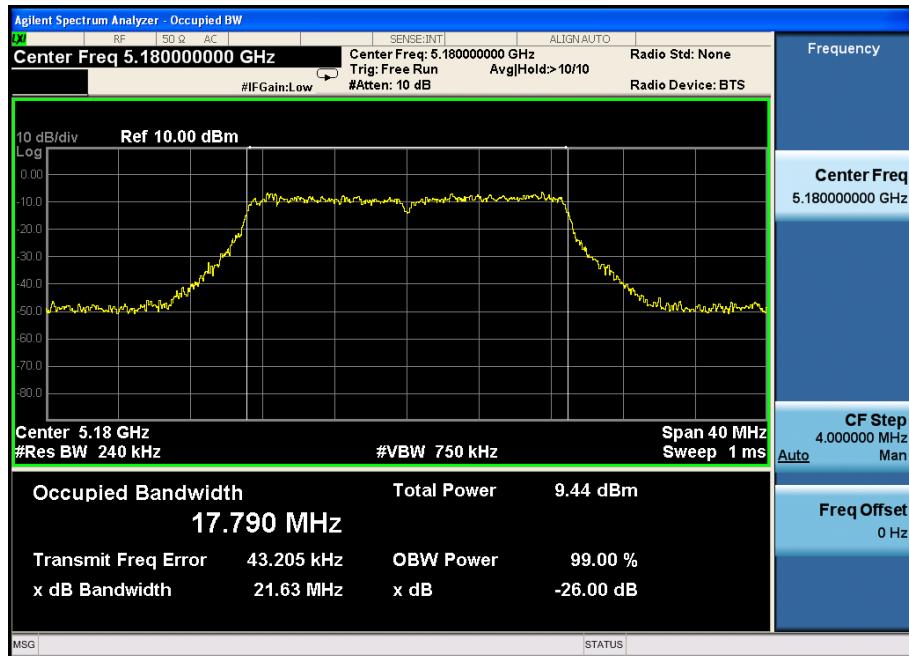
CH 157:



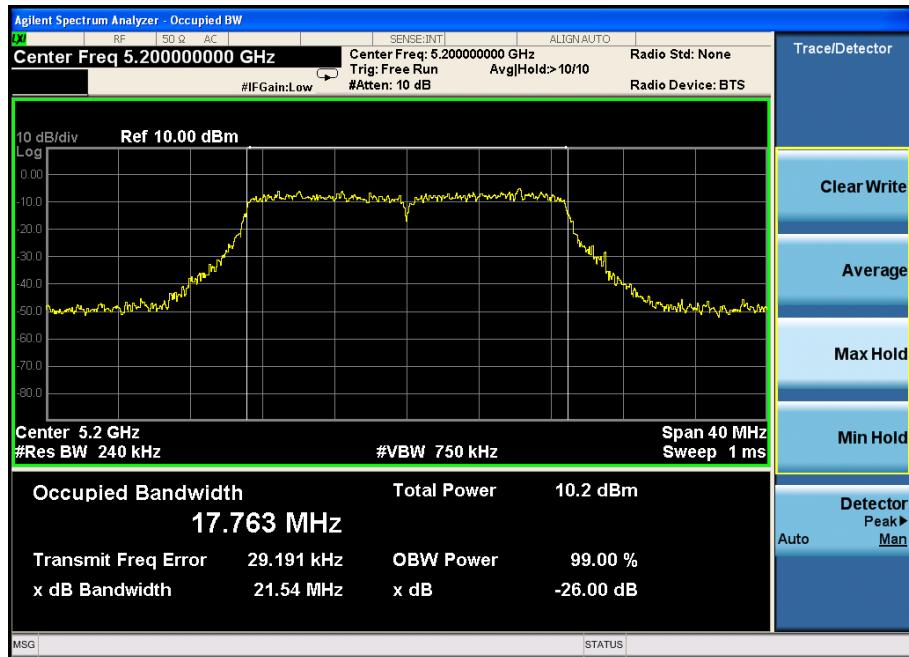
CH 165:



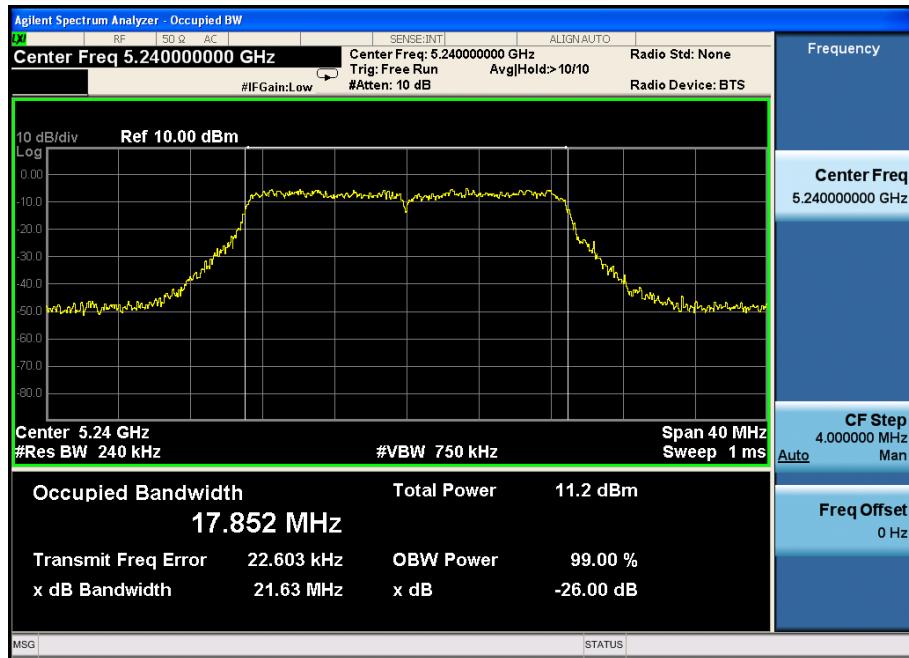
802.11n:  
CH 36 :



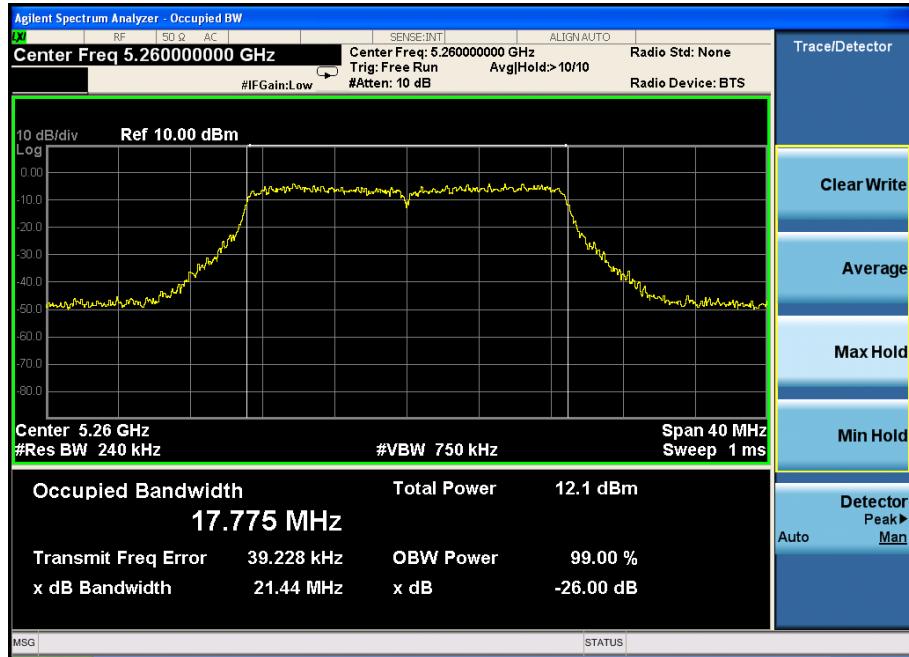
CH 40:



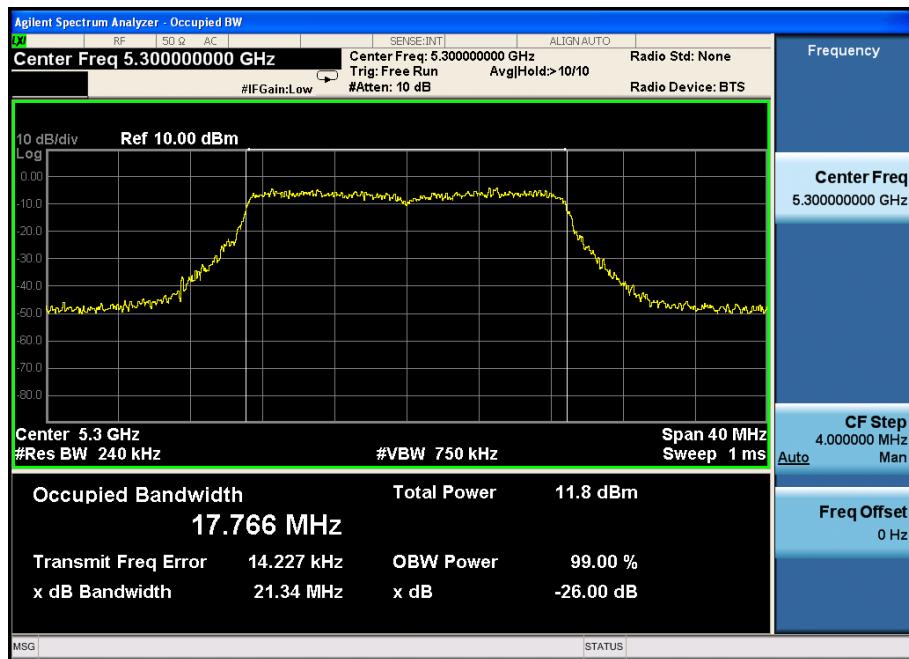
CH 48:



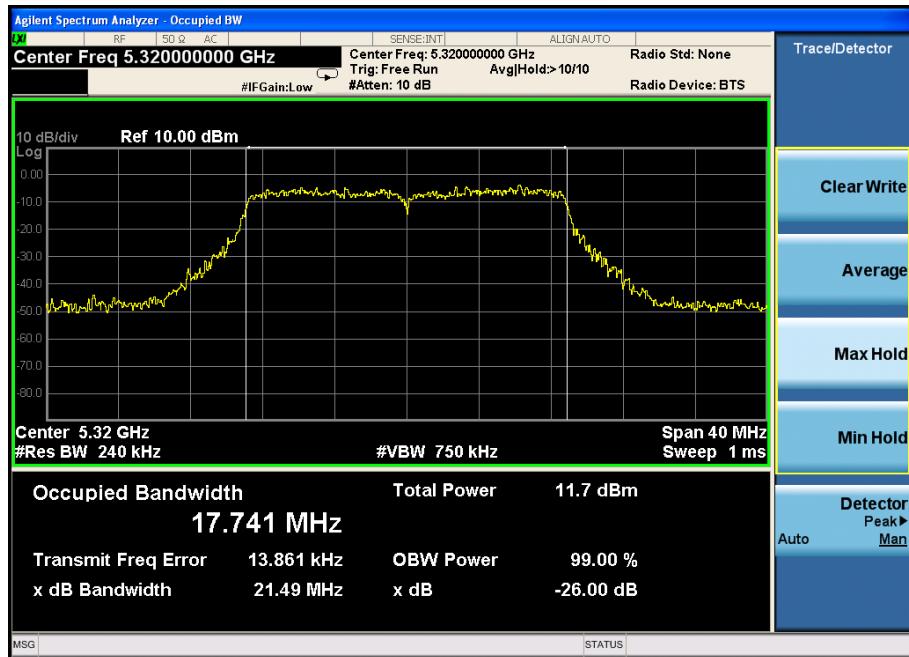
CH 52:



CH 60:



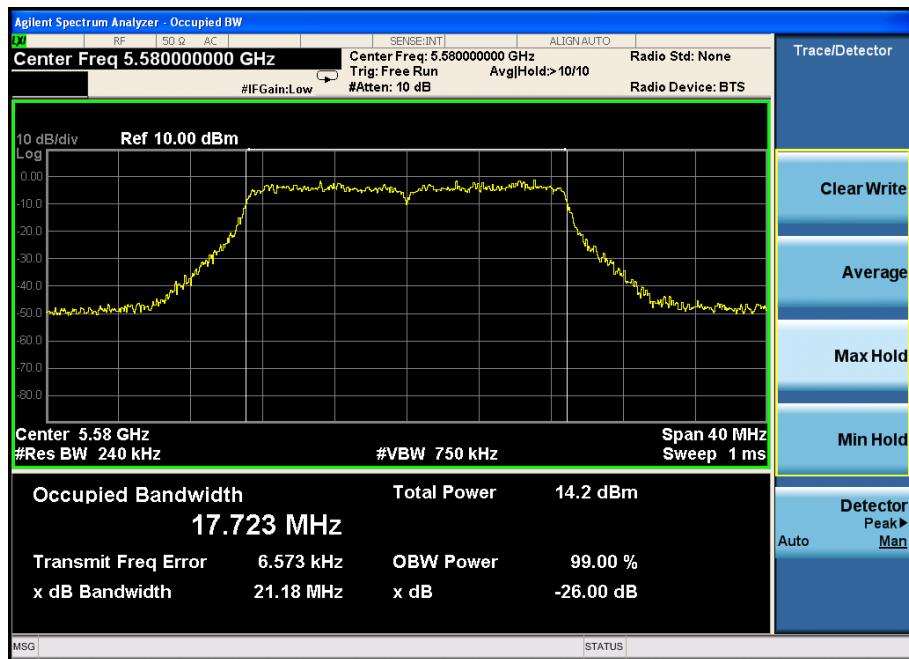
CH 64:



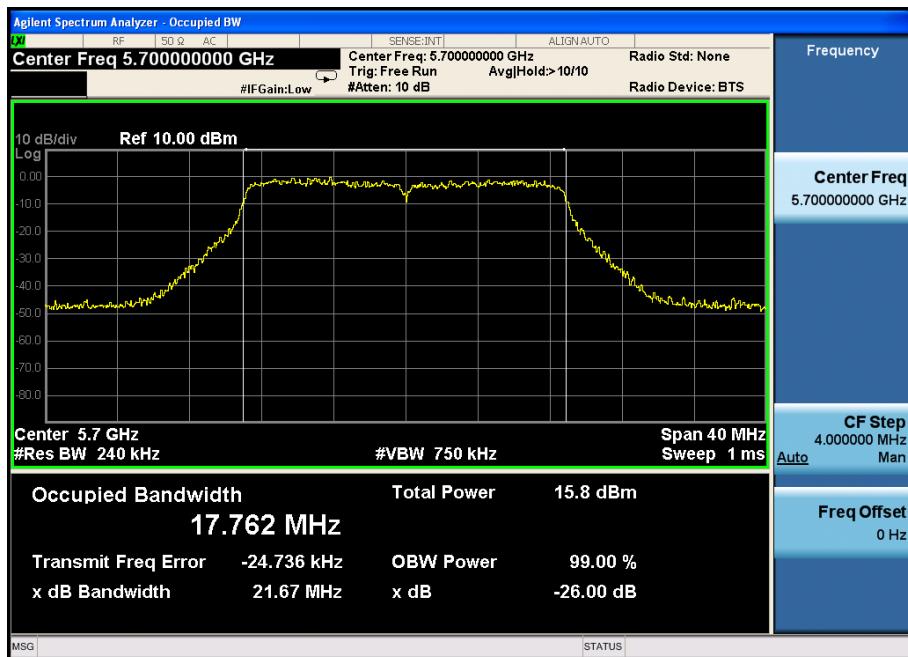
CH 100:



CH 116:



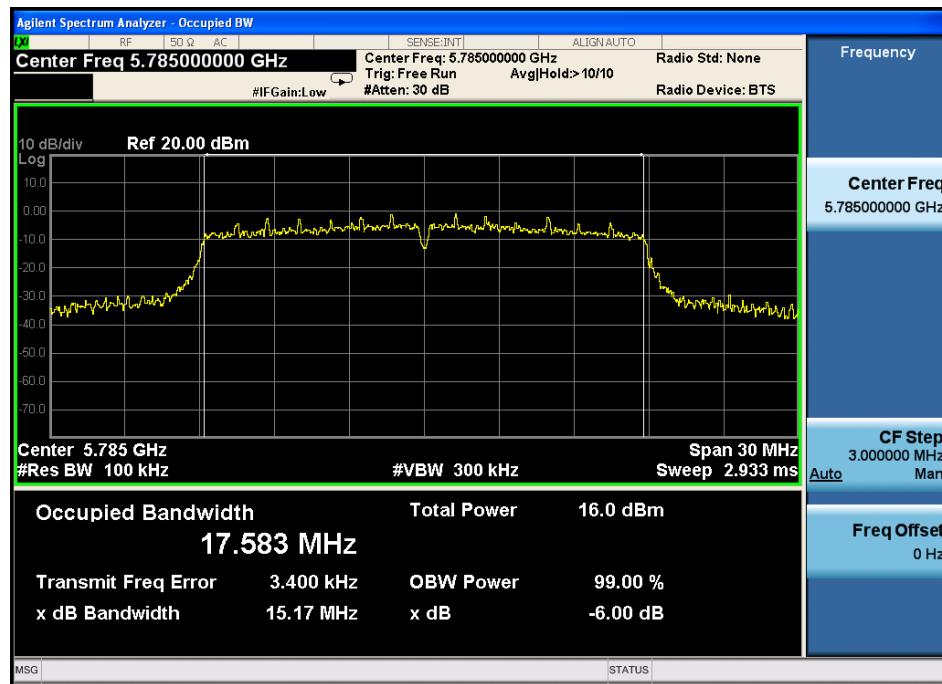
CH 140:



CH 149:



CH 157:



CH 165:



## 10 Undesirable emission

### 10.1 Test limit

Except as shown in paragraph (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits

### 10.2 Test Procedure

Details see the 789033 D02 General U-NII Test Procedures New Rules v01r03.

- 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 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz , RMS detector for AV value.

### 10.3 Test Setup

Same as 5.2.2.

## 10.4 Test Result

Radiated Method:

IEEE 802.11a CH 36

Band Edge Test result															
EUT: Prodigy Connect 12		M/N: PGI-400													
Power: DC 7.4V from battery															
Test date: 2017-02-22 Test site: 3m Chamber Tested by: Simple Guan															
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							
5150	43.18	31.65	5.92	33.9	46.85	68.2	21.35	PK							
--	--	--	--	--	--	--	--	--							
--	--	--	--	--	--	--	--	--							
--	--	--	--	--	--	--	--	--							
Antenna Polarity: Horizontal															
5150	43.77	31.65	5.92	33.9	47.44	68.2	20.76	PK							
--	--	--	--	--	--	--	--	--							
--	--	--	--	--	--	--	--	--							
--	--	--	--	--	--	--	--	--							
--	--	--	--	--	--	--	--	--							
Note:															
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK															
2, Result = Read level + Antenna factor + cable loss-Amp factor															
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.															

Note: According to KDB 789033, EIRP [dBm] = E [dBuV/m] -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11a CH 48

Band Edge Test result														
EUT: Prodigy Connect 12	M/N: PGI-400													
Power: DC 7.4V from battery														
Test date: 2017-02-22	Test site: 3m Chamber		Tested by: Simple Guan											
Test mode: TX High														
Antenna polarity: Vertical														
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark						
5350	42.59	31.73	6.05	33.73	46.64	68.2	21.56	PK						
--	--	--	--	--	--	--	--	--						
Antenna Polarity: Horizontal														
5350	43.64	31.73	6.05	33.73	47.69	68.2	20.51	PK						
--	--	--	--	--	--	--	--	--						
Note:														
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK														
2, Result = Read level + Antenna factor + cable loss-Amp factor														
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.														

Note: According to KDB 789033, EIRP 【dBm】 =E 【dBuV/m】 -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.

IEEE 802.11a CH 52

Band Edge Test result														
EUT: Prodigy Connect 12	M/N: PGI-400													
Power: DC 7.4V from battery														
Test date: 2017-02-22	Test site: 3m Chamber	Tested by:	Simple Guan											
Test mode: TX Low														
Antenna polarity: Vertical														
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark						
5150	42.98	31.65	5.92	33.9	46.65	68.2	21.55	PK						
--	--	--	--	--	--	--	--	--						
--	--	--	--	--	--	--	--	--						
--	--	--	--	--	--	--	--	--						
Antenna Polarity: Horizontal														
5150	43.12	31.65	5.92	33.9	46.79	68.2	21.41	PK						
--	--	--	--	--	--	--	--	--						
--	--	--	--	--	--	--	--	--						
--	--	--	--	--	--	--	--	--						
Note:														
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK														
2, Result = Read level + Antenna factor + cable loss-Amp factor														
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.														

Note: According to KDB 789033, EIRP **【dBm】** =E **【dBuV/m】** -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11a CH 64

Band Edge Test result														
EUT: Prodigy Connect 12	M/N: PGI-400													
Power: DC 7.4V from battery														
Test date: 2017-02-22	Test site: 3m Chamber		Tested by: Simple Guan											
Test mode: TX High														
Antenna polarity: Vertical														
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark						
5350	42.84	31.73	6.05	33.73	46.89	68.2	21.31	PK						
--	--	--	--	--	--	--	--	--						
Antenna Polarity: Horizontal														
5350	43.98	31.73	6.05	33.73	48.03	68.2	20.17	PK						
--	--	--	--	--	--	--	--	--						
Note:														
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK														
2, Result = Read level + Antenna factor + cable loss-Amp factor														
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.														

Note: According to KDB 789033, EIRP 【dBm】 =E 【dBuV/m】 -95.2, thus, limit for 5350MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11a CH 100

Band Edge Test result												
EUT: Prodigy Connect 12	M/N: PGI-400											
Power: DC 7.4V from battery												
Test date: 2017-02-22 Test site: 3m Chamber Tested by: Simple Guan												
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				
5470	42.35	31.65	5.92	33.9	46.02	68.2	22.18	PK				
--	--	--	--	--	--	--	--	--				
--	--	--	--	--	--	--	--	--				
--	--	--	--	--	--	--	--	--				
--	--	--	--	--	--	--	--	--				
Antenna Polarity: Horizontal												
5470	42.79	31.65	5.92	33.9	46.46	68.2	21.74	PK				
--	--	--	--	--	--	--	--	--				
--	--	--	--	--	--	--	--	--				
--	--	--	--	--	--	--	--	--				
--	--	--	--	--	--	--	--	--				
Note:												
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK												
2, Result = Read level + Antenna factor + cable loss-Amp factor												
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.												

Note: According to KDB 789033, EIRP **【dBm】** =E **【dBuV/m】** -95.2, thus, limit for 5470MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11a CH 140

Band Edge Test result												
EUT: Prodigy Connect 12	M/N: PGI-400											
Power: DC 7.4V from battery												
Test date: 2017-02-22    Test site: 3m Chamber    Tested by: Simple Guan												
Test mode: TX High												
Antenna polarity: Vertical												
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
5725	42.69	31.73	6.05	33.73	46.74	68.2	21.46	PK				
--	--	--	--	--	--	--	--	--				
Antenna Polarity: Horizontal												
5725	43.27	31.73	6.05	33.73	47.32	68.2	20.88	PK				
--	--	--	--	--	--	--	--	--				
Note:												
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK												
2, Result = Read level + Antenna factor + cable loss-Amp factor												
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.												

Note: According to KDB 789033, EIRP 【dBm】 =E 【dBuV/m】 -95.2, thus, limit for 5725MHz band is -27+95.2=68.2 dBuV/m.

IEEE 802.11a CH 149

Band Edge Test result													
EUT: Prodigy Connect 12	M/N: PGI-400												
Power: DC 7.4V from battery													
Test date: 2017-02-22	Test site: 3m Chamber		Tested by: Simple Guan										
Test mode: TX High													
Antenna polarity: Vertical													
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark					
5650	41.36	31.73	6.05	33.73	45.41	68.2	22.79	PK					
--	--	--	--	--	--	--	--	--					
Antenna Polarity: Horizontal													
5650	42.92	31.73	6.05	33.73	46.97	68.2	21.23	PK					
--	--	--	--	--	--	--	--	--					
Note:													
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK													
2, Result = Read level + Antenna factor + cable loss-Amp factor													
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.													

Note: According to KDB 789033, EIRP **【dBm】** =E **【dBuV/m】** -95.2, thus, limit for 5650MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11a CH 165

Band Edge Test result												
EUT: Prodigy Connect 12	M/N: PGI-400											
Power: DC 7.4V from battery												
Test date: 2017-02-22    Test site: 3m Chamber    Tested by: Simple Guan												
Test mode: TX High												
Antenna polarity: Vertical												
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
5900	42.31	31.98	6.43	33.68	47.04	68.2	21.16	PK				
--	--	--	--	--	--	--	--	--				
Antenna Polarity: Horizontal												
5900	41.37	31.98	6.43	33.68	46.1	68.2	22.1	PK				
--	--	--	--	--	--	--	--	--				
Note:												
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK												
2, Result = Read level + Antenna factor + cable loss-Amp factor												
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.												

Note: According to KDB 789033, EIRP 【dBm】 =E 【dBuV/m】 -95.2, thus, limit for 5900MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11n20 CH 36

Band Edge Test result																
EUT: Prodigy Connect 12	M/N: PGI-400															
Power: DC 7.4V from battery																
Test date: 2017-02-22    Test site: 3m Chamber    Tested by: Simple Guan																
Test mode: TX Low																
Antenna polarity: Vertical																
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark								
5150	43.81	31.65	5.92	33.9	47.48	68.2	20.72	PK								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
Antenna Polarity: Horizontal																
5150	43.28	31.65	5.92	33.9	46.95	68.2	21.25	PK								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
Note:																
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK																
2, Result = Read level + Antenna factor + cable loss-Amp factor																
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.																

Note: According to KDB 789033, EIRP **【dBm】** =E **【dBuV/m】** -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11n20 CH 48

Band Edge Test result												
EUT: Prodigy Connect 12	M/N: PGI-400											
Power: DC 7.4V from battery												
Test date: 2017-02-22 Test site: 3m Chamber Tested by: Simple Guan												
Test mode: TX High												
Antenna polarity: Vertical												
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
5350	43.56	31.65	5.92	33.9	47.23	68.2	20.97	PK				
--	--	--	--	--	--	--	--	--				
Antenna Polarity: Horizontal												
5350	42.79	31.65	5.92	33.9	46.46	68.2	21.74	PK				
--	--	--	--	--	--	--	--	--				
Note:												
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK												
2, Result = Read level + Antenna factor + cable loss-Amp factor												
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.												

Note: According to KDB 789033, EIRP 【dBm】 =E 【dBuV/m】 -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11n20 CH 52

Band Edge Test result																
EUT: Prodigy Connect 12	M/N: PGI-400															
Power: DC 7.4V from battery																
Test date: 2017-02-22    Test site: 3m Chamber    Tested by: Simple Guan																
Test mode: TX Low																
Antenna polarity: Vertical																
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark								
5150	43.12	31.73	6.05	33.73	47.17	68.2	21.03	PK								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
Antenna Polarity: Horizontal																
5150	43.38	31.73	6.05	33.73	47.43	68.2	20.77	PK								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
Note:																
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK																
2, Result = Read level + Antenna factor + cable loss-Amp factor																
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.																

Note: According to KDB 789033, EIRP **【dBm】** =E **【dBuV/m】** -95.2, thus, limit for 5150MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11n20 CH 64

Band Edge Test result								
EUT: Prodigy Connect 12	M/N: PGI-400							
Power: DC 7.4V from battery								
Test date: 2017-02-22	Test site: 3m Chamber		Tested by:	Simple Guan				
Test mode: TX High								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5350	42.78	31.65	5.92	33.9	46.45	68.2	21.75	PK
--	--	--	--	--	--	--	--	--
Antenna Polarity: Horizontal								
5350	43.15	31.65	5.92	33.9	46.82	68.2	21.38	PK
--	--	--	--	--	--	--	--	--
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Result = Read level + Antenna factor + cable loss-Amp factor								
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

Note: According to KDB 789033, EIRP 【dBm】 =E 【dBuV/m】 -95.2, thus, limit for 5350MHz band is -27+95.2=68.2 dBuV/m.

IEEE 802.11n20 CH 100

Band Edge Test result																
EUT: Prodigy Connect 12	M/N: PGI-400															
Power: DC 7.4V from battery																
Test date: 2017-02-22    Test site: 3m Chamber    Tested by: Simple Guan																
Test mode: TX Low																
Antenna polarity: Vertical																
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark								
5470	42.17	31.65	5.92	33.9	45.84	68.2	22.36	PK								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
Antenna Polarity: Horizontal																
5470	43.26	31.65	5.92	33.9	46.93	68.2	21.27	PK								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
--	--	--	--	--	--	--	--	--								
Note:																
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK																
2, Result = Read level + Antenna factor + cable loss-Amp factor																
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.																

Note: According to KDB 789033, EIRP **【dBm】** =E **【dBuV/m】** -95.2, thus, limit for 5470MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11n20 CH 140

Band Edge Test result												
EUT: Prodigy Connect 12	M/N: PGI-400											
Power: DC 7.4V from battery												
Test date: 2017-02-22    Test site: 3m Chamber    Tested by: Simple Guan												
Test mode: TX High												
Antenna polarity: Vertical												
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
5725	42.37	31.73	6.05	33.73	46.42	68.2	21.78	PK				
--	--	--	--	--	--	--	--	--				
Antenna Polarity: Horizontal												
5725	42.59	31.73	6.05	33.73	46.64	68.2	21.56	PK				
--	--	--	--	--	--	--	--	--				
Note:												
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK												
2, Result = Read level + Antenna factor + cable loss-Amp factor												
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.												

Note: According to KDB 789033, EIRP 【dBm】 =E 【dBuV/m】 -95.2, thus, limit for 5725MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11n20 CH 149

Band Edge Test result													
EUT: Prodigy Connect 12	M/N: PGI-400												
Power: DC 7.4V from battery													
Test date: 2017-02-22	Test site: 3m Chamber		Tested by: Simple Guan										
Test mode: TX High													
Antenna polarity: Vertical													
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark					
5650	42.55	31.98	6.43	33.68	47.28	68.2	20.92	PK					
--	--	--	--	--	--	--	--	--					
Antenna Polarity: Horizontal													
5650	41.33	31.98	6.43	33.68	46.06	68.2	22.14	PK					
--	--	--	--	--	--	--	--	--					
Note:													
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK													
2, Result = Read level + Antenna factor + cable loss-Amp factor													
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.													

Note: According to KDB 789033, EIRP **【dBm】** =E **【dBuV/m】** -95.2, thus, limit for 5650MHz band is -27+95.2=68.2 dBuV/m.

## IEEE 802.11n20 CH 165

Band Edge Test result												
EUT: Prodigy Connect 12	M/N: PGI-400											
Power: DC 7.4V from battery												
Test date: 2017-02-22    Test site: 3m Chamber    Tested by: Simple Guan												
Test mode: TX High												
Antenna polarity: Vertical												
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
5900	42.31	31.98	6.43	33.68	47.04	68.2	21.16	PK				
--	--	--	--	--	--	--	--	--				
Antenna Polarity: Horizontal												
5900	41.37	31.98	6.43	33.68	46.1	68.2	22.1	PK				
--	--	--	--	--	--	--	--	--				
Note:												
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK												
2, Result = Read level + Antenna factor + cable loss-Amp factor												
3, All the other emissions not reported were too low to read and deemed to comply with FCC limit.												

Note: According to KDB 789033, EIRP 【dBm】 =E 【dBuV/m】 -95.2, thus, limit for 5900MHz band is -27+95.2=68.2 dBuV/m.

## 11 Frequency stability

### 11.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an Emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 11.2 Measuring Instruments

See list of measuring instruments of this test report.

### 11.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

### 11.4 Test SETUP



## 11.5 Test Result

NOTE: 1. all bandwidth and mode been test, Only the worst data.

Voltage	Band I (5.15-5.25GHz)Measurement Frequency(MHz)
AC (V)	5200
MAX	5199.9243
Nom	5199.9260
MIN	5199.9240
Max.Deviation(MHz)	0.0760
Max.Deviation(ppm)	14.62

Temperature Vs. Frequency Stability:

Temperature	Measurement Frequency(MHz)
(oC)	5200
-30	5199.9312
-20	5199.9281
-10	5199.9259
0	5199.9253
10	5199.9244
20	5199.9277
30	5199.9241
40	5199.9248
50	5199.9234
Max.Deviation(MHz)	0.0766
Max.Deviation(ppm)	14.73

Voltage	Band I (5.25-5.35GHz)Measurement Frequency(MHz)
AC (V)	5300
MAX	5299.9556
Nom	5299.9544
MIN	5299.9541
Max.Deviation(MHz)	0.0459
Max.Deviation(ppm)	8.83

## Temperature Vs. Frequency Stability:

Temperature	Measurement Frequency(MHz)
(oC)	5300
-30	5299.9607
-20	5299.9592
-10	5299.9572
0	5299.9569
10	5299.9572
20	5299.9579
30	5299.9567
40	5299.9581
50	5299.9558
Max.Deviation(MHz)	0.0442
Max.Deviation(ppm)	8.34

Voltage	Band I (5.47-5.725GHz)Measurement Frequency(MHz)
AC (V)	5580
MAX	5579.9248
Nom	5579.9235
MIN	5579.9255
Max.Deviation(MHz)	0.0765
Max.Deviation(ppm)	14.71

## Temperature Vs. Frequency Stability:

Temperature	Measurement Frequency(MHz)
(oC)	5580
-30	5579.9307
-20	5579.9258
-10	5579.9224
0	5579.9242
10	5579.9214
20	5579.9246
30	5579.9246
40	5579.9231
50	5579.9215
Max.Deviation(MHz)	0.0786
Max.Deviation(ppm)	14.09

Voltage	Band IV (5.725-5.85GHz) Measurement Frequency(MHz)
AC (V)	5785
MAX	5784.9258
Nom	5784.9253
MIN	5784.9243
Max.Deviation(MHz)	0.0757
Max.Deviation(ppm)	14.56

## Temperature Vs. Frequency Stability:

Temperature	Measurement Frequency(MHz)
(oC)	5785
-30	5784.9307
-20	5784.9282
-10	5784.9263
0	5784.9242
10	5784.9278
20	5784.9249
30	5784.9272
40	5784.9262
50	5784.9274
Max.Deviation(MHz)	0.0758
Max.Deviation(ppm)	13.10

## 12 Antenna Requirement

### 12.1 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.

### 12.2 Antenna Connected Construction

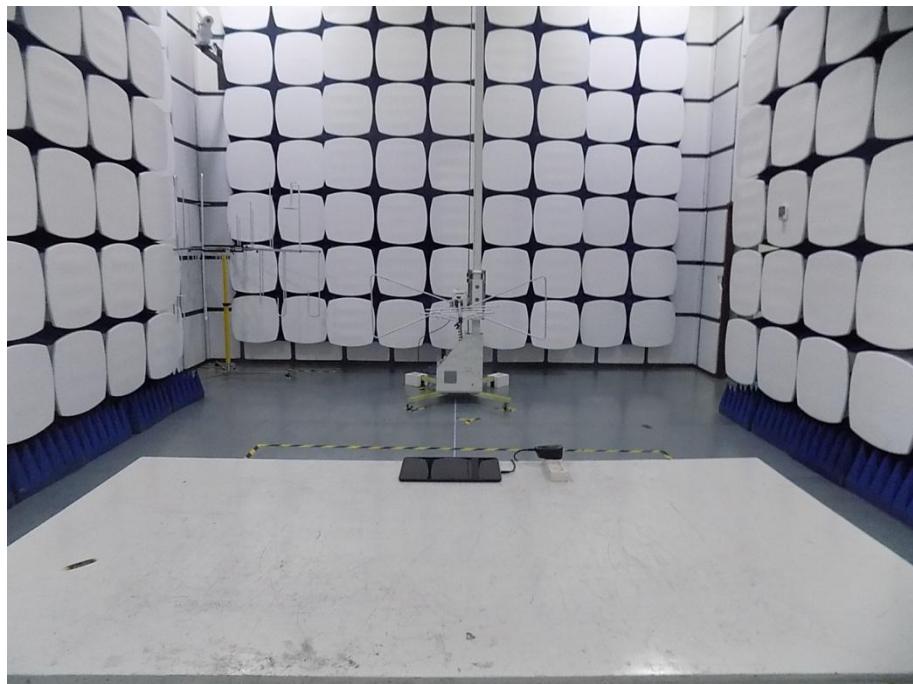
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

### 12.3 Result

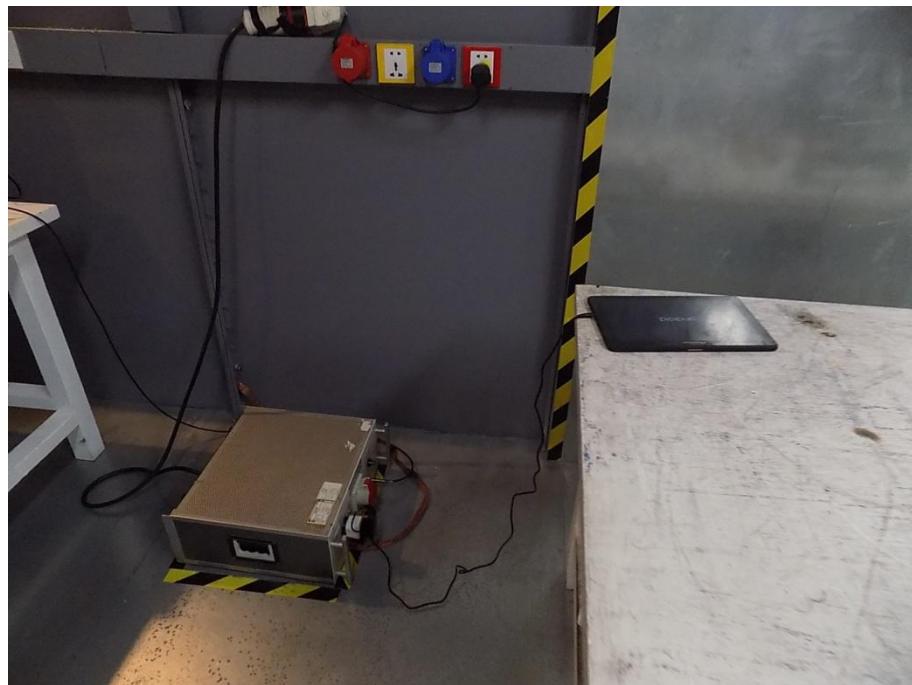
The EUT antenna is unique Antenna. It comply with the standard requirement.

## 13 Test setup photo

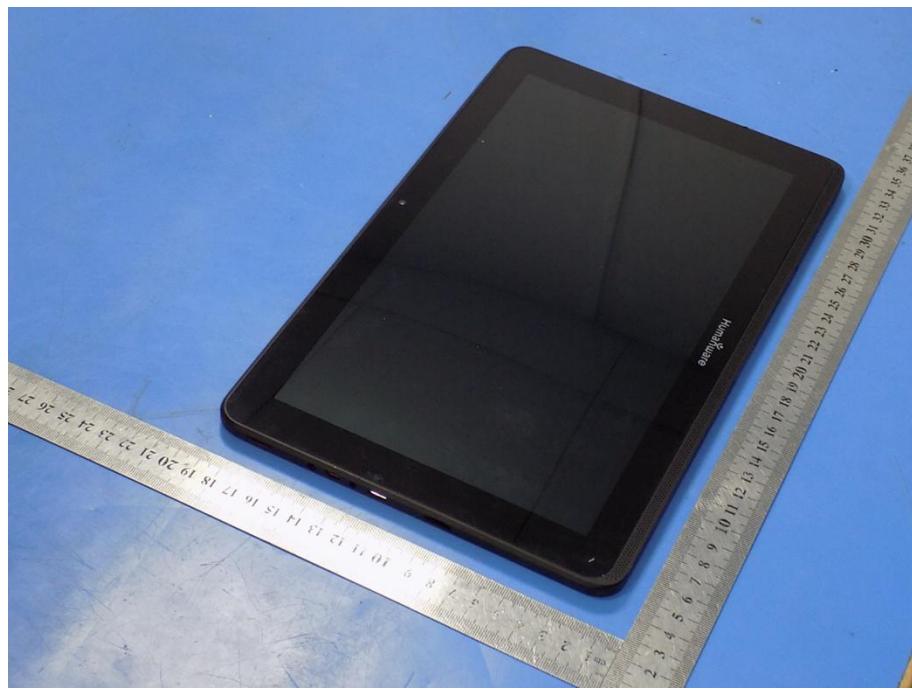
### 13.1 Photos of Radiated emission

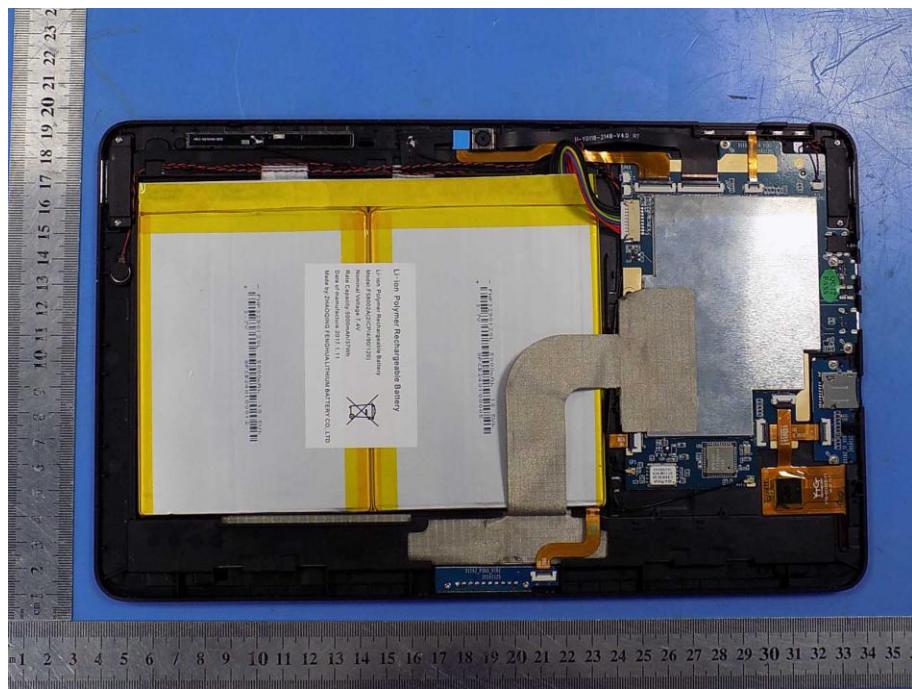


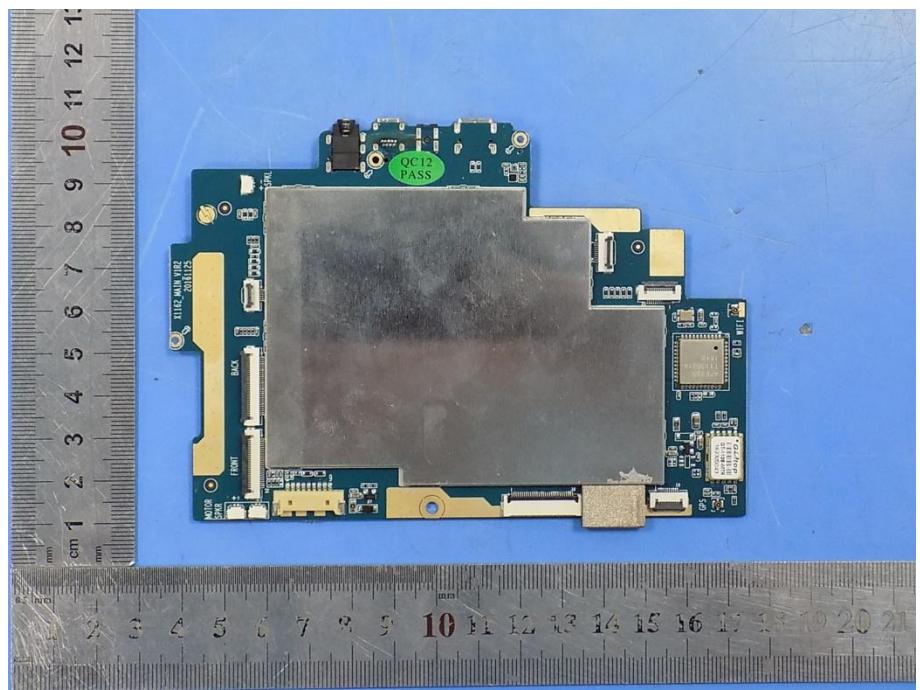
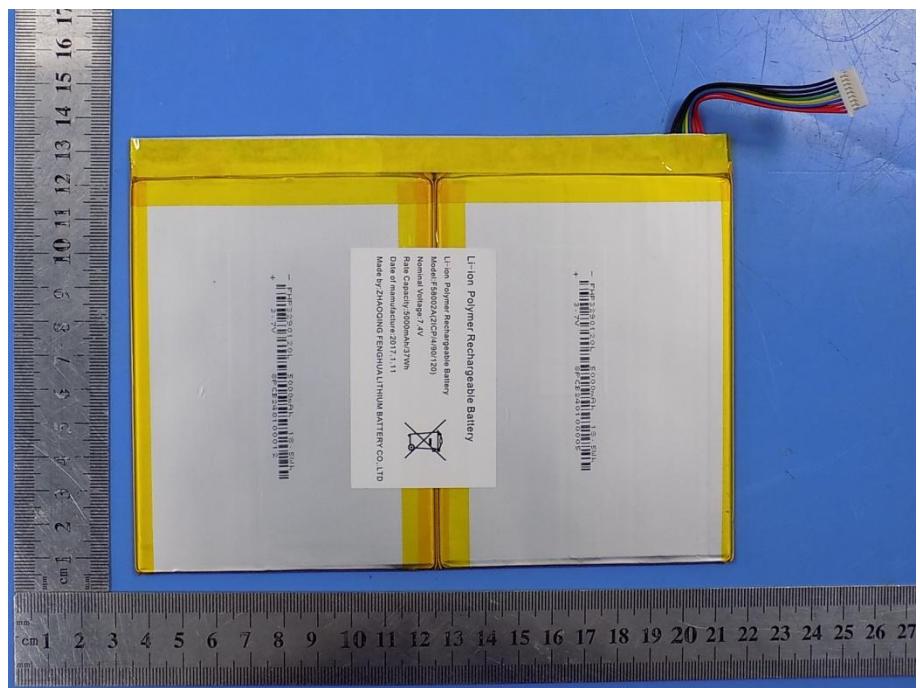
### 13.2 Photos of Conducted Emission test

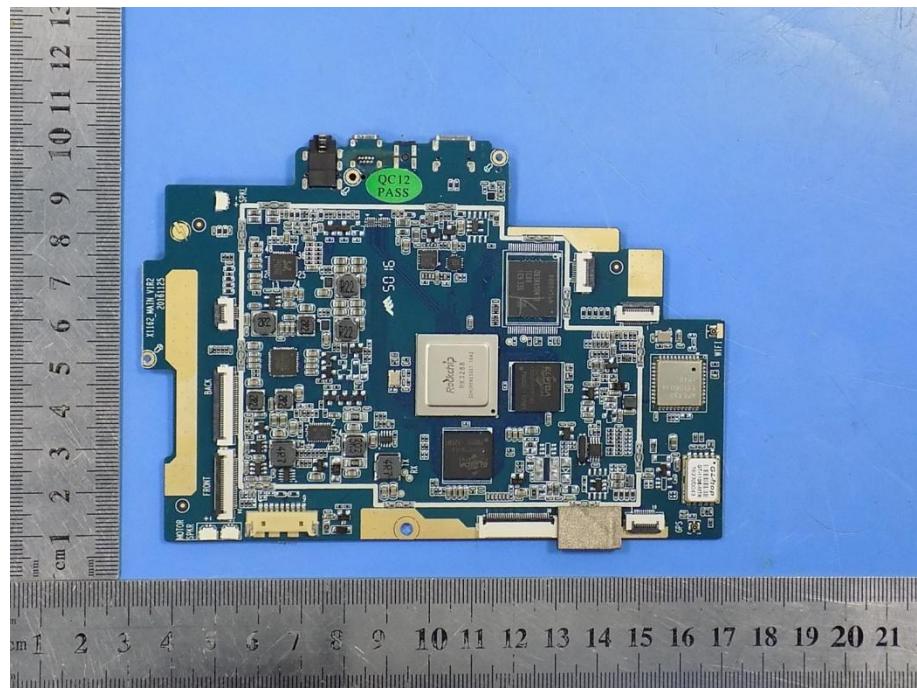
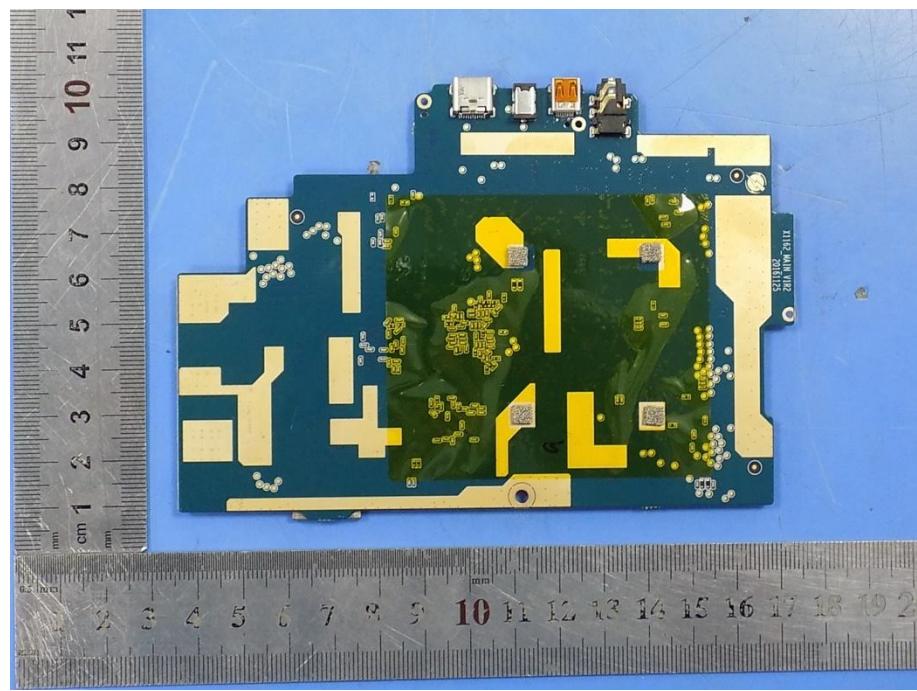


## 14 Photographs of EUT









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