



## **FCC REPORT**

**Applicant:** Norcon Communications Inc.

**Address of Applicant:** 510 Burnside Ave. Inwood New York United States

**Equipment Under Test (EUT)**

Product Name: Norcon TTU-Wireless Headset

Model No.: TTU-WHS-D

**FCC ID:** X7STTUWHSD

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014

**Date of sample receipt:** November 19, 2015

**Date of Test:** November 20-26, 2015

**Date of report issued:** November 27, 2015

**Test Result :** PASS \*

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

Authorized Signature:

**Robinson Lo**

**Laboratory Manager**

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

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## 2 Version

Version No.	Date	Description
00	November 27, 2015	Original

**Prepared By:** Edward Pan **Date:** November 27, 2015  
**Project Engineer**

**Check By:** Hank Yan **Date:** November 27, 2015  
**Reviewer**

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

*Pass: The EUT complies with the essential requirements in the standard.*

Remark: Test according to ANSI C63.10-2013 and ANSI C63.4-2014

### Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 Client Information

Applicant:	Norcon Communications Inc.
Address of Applicant:	510 Burnside Ave. Inwood New York United States
Manufacturer:	Microworld Electronic Company
Address of Manufacturer:	Rm 305, 3/F Watson Building , Tusen Wan HK
Factory	Shenzhen CK Electronics Co., Ltd.
Address of Factory:	floor 2, Building 4, No. 372, shajing Donghuan Road, Baoan District, Shenzhen city, China

### 5.2 General Description of EUT

Product Name:	Norcon TTU-Wireless Headset
Model No.:	TTU-WHS-D
Operation Frequency:	905MHz ~ 923MHz
Channel numbers:	19
Modulation type:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	2dBi
Power supply:	DC 5.0V Or DC 3.7V 650mAh Li-ion Battery

Frequency List:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	905	8	912	15	919
2	906	9	913	16	920
3	907	10	914	17	921
4	908	11	915	18	922
5	909	12	916	19	923
6	910	13	917		
7	911	14	918		

The test frequencies are below:

Channel	Frequency (MHz)
Lowest:	905
Middle:	914
Highest:	923

### 5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

#### Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	90.04	91.10	90.91

### 5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
Emerson Network Power	USB Charger	A1299	N/A	FCC VOC

### 5.5 Test Facility

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

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

### 5.7 Other Information Requested by the Customer

None.

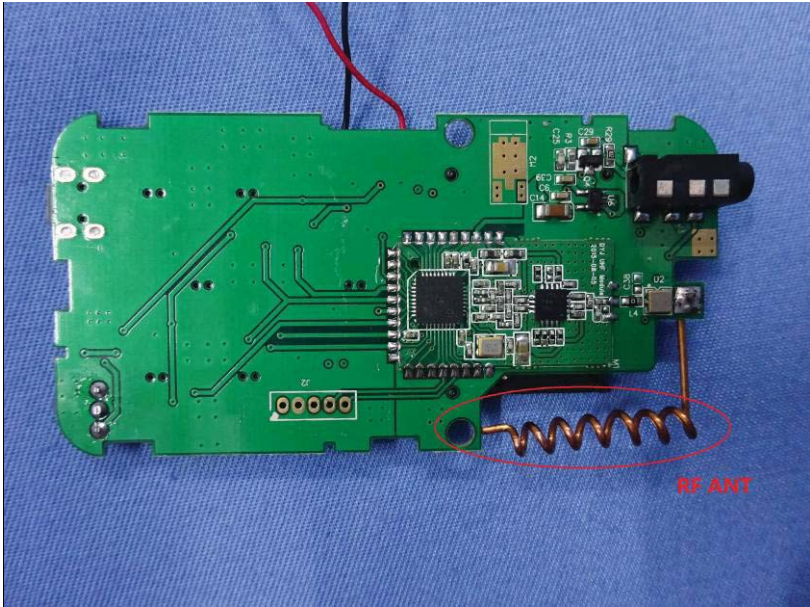
## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jun 30 2015	Jun 29 2016
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun 30 2015	Jun 29 2016
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun 30 2015	Jun 29 2016
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 26 2016
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun 30 2015	Jun 29 2016
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun 30 2015	Jun 29 2016
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 26 2016
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016
Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Jun 30 2015	Jun 29 2016
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun 30 2015	Jun 29 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun 30 2015	Jun 29 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun 30 2015	Jun 29 2016
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jun 30 2015	Jun 29 2016
6	Coaxial Cable	GTS	N/A	GTS227	Jun 30 2015	Jun 29 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016



## 7 Test results and Measurement Data

### 7.1 Antenna requirement

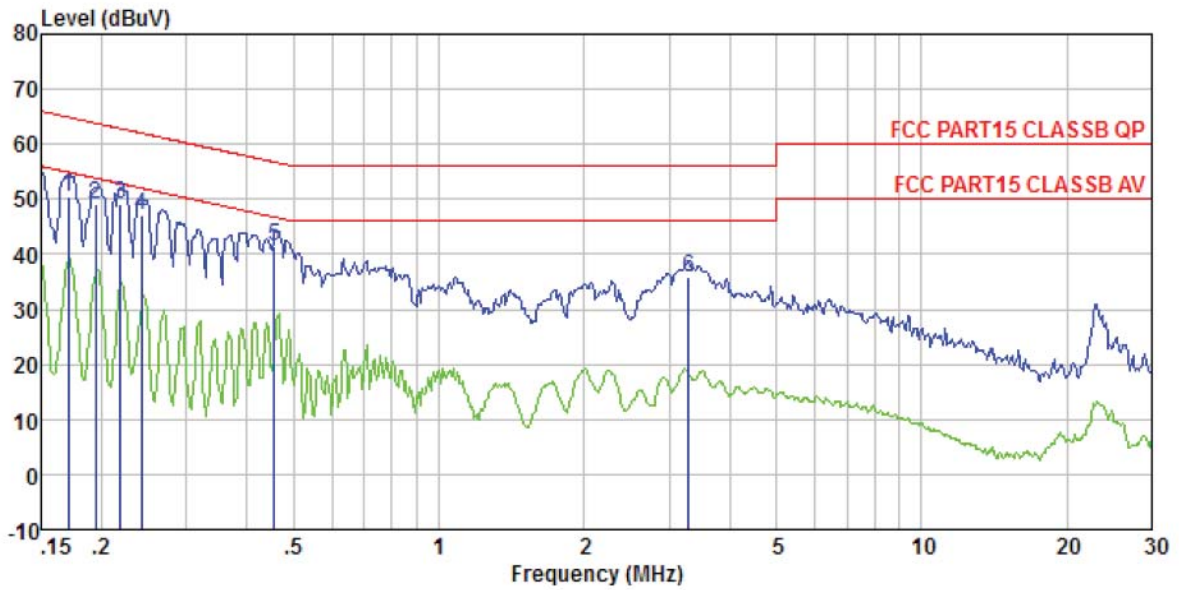
<b>Standard requirement:</b>	FCC Part15 C Section 15.203
<p><b>15.203 requirement:</b></p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>	
<p><b>EUT Antenna:</b></p>	
<p><i>The antenna is integral antenna, the best case gain of the antenna is 2dBi</i></p> 	

## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test setup:	<p>Remark  E.U.T: Equipment Under Test  LISN: Line Impedance Stabilization Network  Test table height=0.8m</p>														
Test procedure:	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</li> </ol>														
Test Instruments:	Refer to section 6.0 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Pass														

### Measurement data:

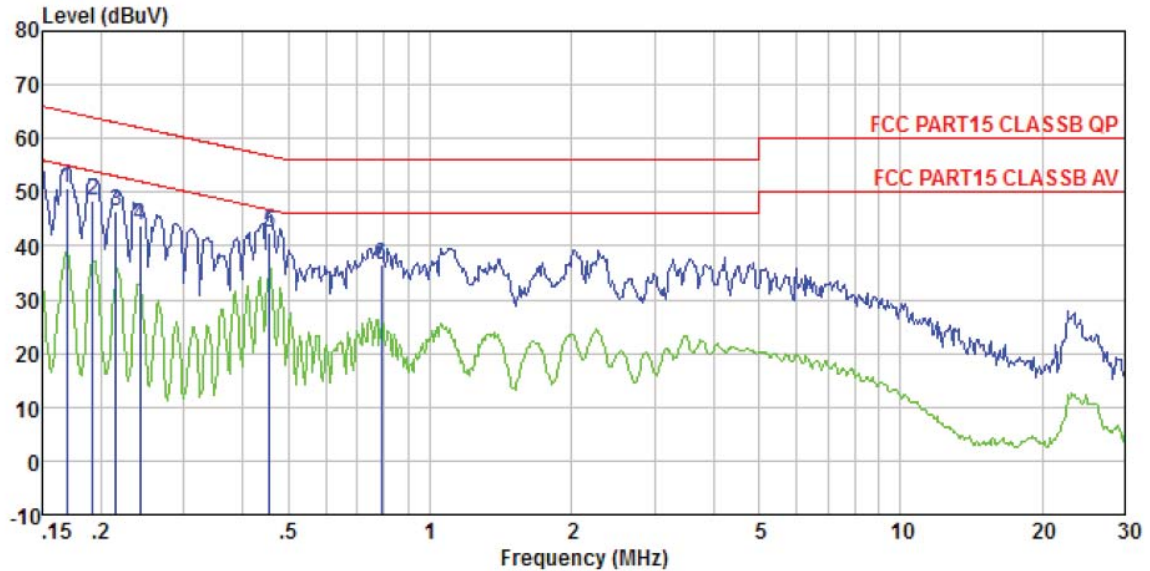
Line:



Site : Shielded room  
 Condition : FCC PART15 CLASSB QP LISN-2013 LINE  
 Job No. : 2122RF  
 Test mode : Transmitting mode  
 Test Engineer: Rong

	Read	LISN	Cable	Limit	Over			
Freq	Level	Level	Loss	Line	Limit	Remark		
MHz	dBuV	dBuV	dB	dB	dBuV	dB		
1	0.170	50.15	50.42	0.15	0.12	64.94	-14.52	QP
2	0.194	48.89	49.16	0.14	0.13	63.84	-14.68	QP
3	0.219	48.78	49.04	0.13	0.13	62.88	-13.84	QP
4	0.242	46.90	47.14	0.12	0.12	62.04	-14.90	QP
5	0.456	41.23	41.46	0.12	0.11	56.76	-15.30	QP
6	3.293	35.45	35.78	0.18	0.15	56.00	-20.22	QP

**Neutral:**



Site : Shielded room  
 Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL  
 Job No. : 2122RF  
 Test mode : Transmitting mode  
 Test Engineer: Rong

	Read	LISN	Cable	Limit	Over			
Freq	Level	Level	Loss	Line	Limit	Remark		
MHz	dBuV	dBuV	dB	dB	dBuV	dB		
1	0.169	50.45	50.64	0.07	0.12	64.99	-14.35	QP
2	0.192	48.27	48.47	0.07	0.13	63.93	-15.46	QP
3	0.215	46.11	46.30	0.06	0.13	63.01	-16.71	QP
4	0.242	43.54	43.72	0.06	0.12	62.04	-18.32	QP
5	0.456	42.27	42.44	0.06	0.11	56.76	-14.32	QP
6	0.788	36.23	36.43	0.07	0.13	56.00	-19.57	QP

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. *If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.*

## 7.3 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.00		Average Value	
Limit: (Spurious Emissions)	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.00		Quasi-peak Value	
	88MHz-216MHz	43.50		Quasi-peak Value	
	216MHz-960MHz	46.00		Quasi-peak Value	
	960MHz-1GHz	54.00		Quasi-peak Value	
	Above 1GHz	54.00		Average Value	
74.00		Peak Value			
Limit: (band edge)	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 to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	<p>Below 1GHz</p> <p>Above 1GHz</p>				

	<p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a Turn Table. The Turn Table is positioned 3 meters away from an Antenna Tower. The Antenna Tower has a Horn Antenna mounted on it. The antenna height is varied from 1 meter to 4 meters above the ground. The Turn Table is rotated 360 degrees to determine the position of the highest radiation. The test receiver system consists of a Spectrum Analyzer and an Amplifier.</p>
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Pass</p>

**Measurement data:**

### 7.3.1 Field Strength of The Fundamental Signal

**Quasi-peak Value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
905.00	86.80	23.12	4.87	29.10	85.69	94.00	-8.31	Vertical
905.00	73.60	23.12	4.87	29.10	72.49	94.00	-21.51	Horizontal
914.00	92.12	23.18	4.90	29.10	91.10	94.00	-2.90	Vertical
914.00	78.62	23.18	4.90	29.10	77.60	94.00	-16.40	Horizontal
923.00	85.30	23.24	4.95	29.10	84.39	94.00	-9.61	Vertical
923.00	74.53	23.24	4.95	29.10	73.62	94.00	-20.38	Horizontal

### 7.3.2 Spurious emissions

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
36.77	33.20	14.77	0.63	30.06	18.54	40.00	-21.46	Vertical
42.90	31.04	15.56	0.69	30.03	17.26	40.00	-22.74	Vertical
49.01	31.14	15.31	0.76	30.00	17.21	40.00	-22.79	Vertical
98.14	28.22	15.03	1.18	29.71	14.72	43.50	-28.78	Vertical
403.25	34.23	17.14	2.87	29.49	24.75	46.00	-21.25	Vertical
429.52	34.28	17.51	2.99	29.44	25.34	46.00	-20.66	Vertical

36.90	26.98	14.82	0.63	30.06	12.37	40.00	-27.63	Horizontal
195.14	34.83	12.57	1.81	29.22	19.99	43.50	-23.51	Horizontal
246.82	37.34	14.08	2.11	29.62	23.91	46.00	-22.09	Horizontal
273.23	37.19	14.46	2.24	29.82	24.07	46.00	-21.93	Horizontal
351.71	34.11	16.30	2.63	29.73	23.31	46.00	-22.69	Horizontal
403.25	33.14	17.14	2.87	29.49	23.66	46.00	-22.34	Horizontal

■ Above 1GHz

Test channel:	Lowest channel
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1810.00	36.24	25.31	4.86	34.14	32.27	74.00	-41.73	Vertical
2715.00	34.45	28.18	5.69	33.64	34.68	74.00	-39.32	Vertical
3620.00	34.07	29.15	7.19	32.62	37.79	74.00	-36.21	Vertical
4525.00	30.89	31.37	8.36	31.95	38.67	74.00	-35.33	Vertical
5430.00	29.62	31.86	9.40	32.40	38.48	74.00	-35.52	Vertical
6335.00	29.87	33.36	10.68	32.07	41.84	74.00	-32.16	Vertical
7240.00	26.81	36.19	11.68	31.97	42.71	74.00	-31.29	Vertical
8145.00	26.94	37.06	12.36	31.53	44.83	74.00	-29.17	Vertical
9050.00	27.54	37.20	13.69	32.25	46.18	74.00	-27.82	Vertical
1810.00	37.46	25.31	4.86	34.14	33.49	74.00	-40.51	Horizontal
2715.00	34.50	28.18	5.69	33.64	34.73	74.00	-39.27	Horizontal
3620.00	35.08	29.15	7.19	32.62	38.80	74.00	-35.20	Horizontal
4525.00	31.93	31.37	8.36	31.95	39.71	74.00	-34.29	Horizontal
5430.00	30.35	31.86	9.40	32.40	39.21	74.00	-34.79	Horizontal
6335.00	28.16	33.36	10.68	32.07	40.13	74.00	-33.87	Horizontal
7240.00	27.56	36.19	11.68	31.97	43.46	74.00	-30.54	Horizontal
8145.00	28.18	37.06	12.36	31.53	46.07	74.00	-27.93	Horizontal
9050.00	26.58	37.20	13.69	32.25	45.22	74.00	-28.78	Horizontal



Test channel:	Middle
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1828.00	37.39	25.42	4.87	34.17	33.51	74.00	-40.49	Vertical
2742.00	34.72	28.24	5.71	33.63	35.04	74.00	-38.96	Vertical
3656.00	34.65	29.19	7.27	32.58	38.53	74.00	-35.47	Vertical
4570.00	31.11	31.47	8.40	31.97	39.01	74.00	-34.99	Vertical
5484.00	29.78	31.95	9.49	32.42	38.80	74.00	-35.20	Vertical
6398.00	29.77	33.46	10.75	32.11	41.87	74.00	-32.13	Vertical
7312.00	28.15	36.37	11.71	31.91	44.32	74.00	-29.68	Vertical
8226.00	26.71	36.84	12.47	31.70	44.32	74.00	-29.68	Vertical
9140.00	27.53	37.28	13.78	32.15	46.44	74.00	-27.56	Vertical
1828.00	35.79	25.42	4.87	34.17	31.91	74.00	-42.09	Horizontal
2742.00	33.41	28.24	5.71	33.63	33.73	74.00	-40.27	Horizontal
3656.00	34.23	29.19	7.27	32.58	38.11	74.00	-35.89	Horizontal
4570.00	31.54	31.47	8.40	31.97	39.44	74.00	-34.56	Horizontal
5484.00	29.31	31.95	9.49	32.42	38.33	74.00	-35.67	Horizontal
6398.00	28.80	33.46	10.75	32.11	40.90	74.00	-33.10	Horizontal
7312.00	27.09	36.37	11.71	31.91	43.26	74.00	-30.74	Horizontal
8226.00	26.21	36.84	12.47	31.70	43.82	74.00	-30.18	Horizontal
9140.00	28.86	37.28	13.78	32.15	47.77	74.00	-26.23	Horizontal

Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1846.00	36.92	25.50	4.88	34.20	33.10	74.00	-40.90	Vertical
2769.00	33.24	28.31	5.73	33.59	33.69	74.00	-40.31	Vertical
3692.00	34.53	29.24	7.32	32.54	38.55	74.00	-35.45	Vertical
4615.00	30.24	31.53	8.44	32.00	38.21	74.00	-35.79	Vertical
5538.00	29.65	32.09	9.56	32.41	38.89	74.00	-35.11	Vertical
6461.00	29.78	33.57	10.85	32.13	42.07	74.00	-31.93	Vertical
7384.00	26.76	36.49	11.76	31.83	43.18	74.00	-30.82	Vertical
8307.00	26.42	36.56	12.58	31.87	43.69	74.00	-30.31	Vertical
9230.00	26.60	37.41	13.84	32.05	45.80	74.00	-28.20	Vertical
1828.00	35.79	25.42	4.87	34.17	31.91	74.00	-42.09	Horizontal
2742.00	33.41	28.24	5.71	33.63	33.73	74.00	-40.27	Horizontal
3656.00	34.23	29.19	7.27	32.58	38.11	74.00	-35.89	Horizontal
4570.00	31.54	31.47	8.40	31.97	39.44	74.00	-34.56	Horizontal
5484.00	29.31	31.95	9.49	32.42	38.33	74.00	-35.67	Horizontal
6398.00	28.80	33.46	10.75	32.11	40.90	74.00	-33.10	Horizontal
7312.00	27.09	36.37	11.71	31.91	43.26	74.00	-30.74	Horizontal
8226.00	26.21	36.84	12.47	31.70	43.82	74.00	-30.18	Horizontal
9140.00	28.86	37.28	13.78	32.15	47.77	74.00	-26.23	Horizontal

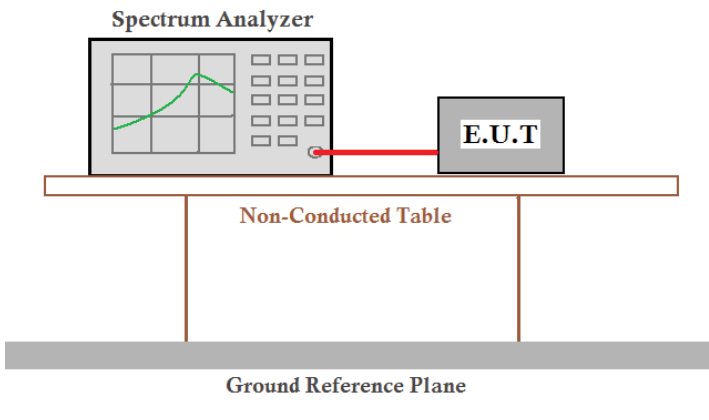
### 7.3.3 Bandedge emissions

*All of the restriction bands were tested, and only the data of worst case was exhibited.*

	Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
CHL:	902.00	38.10	23.12	4.87	29.10	36.99	46.00	-9.01	Vertical
CHL:	902.00	25.00	23.12	4.87	29.10	23.89	46.00	-22.11	Horizontal
CHH:	928.00	35.50	23.28	4.96	29.10	34.64	46.00	-11.36	Vertical
CHH:	928.00	25.32	23.28	4.96	29.10	24.46	46.00	-21.54	Horizontal

Remark: QP detector is used

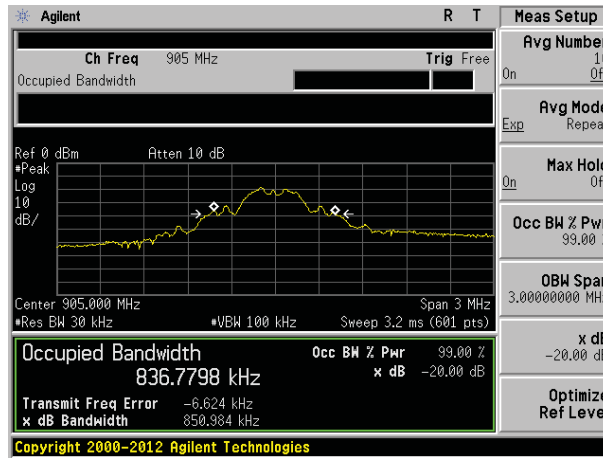
## 7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

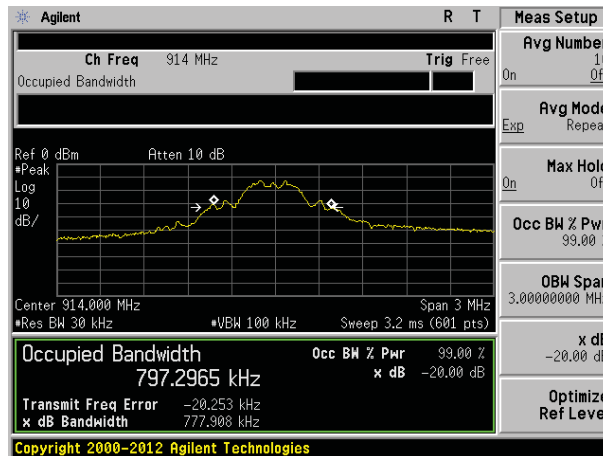
### Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	0.851	Pass
Middle	0.778	Pass
Highest	0.837	Pass

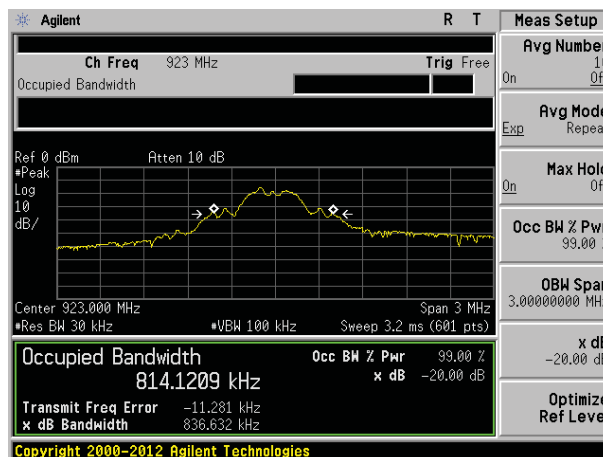
Test plot as follows:



Lowest channel



Middle channel



Highest channel