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Report No.: EBO1612134-E456

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FCC REPORT

Applicant: Vcom International Multi-media Corp

Address of Applicant: 80 Little Falls Road, Fairfield, NJ 07004 United States

Equipment Under Test (EUT)

Product Name: BLUETOOTH TRANSMITTER

Trade Mark: HAMILTONBUHL

Model No.: W900-BLTM

FCC ID: 2AAPA-W900-BLTM

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.237:2016

Date of sample receipt: January 05, 2017

Date of Test: January 05, 2017 To January 25, 2017

Date of report issued: January 25, 2017

Test Result : PASS *

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

Authorized Signature:



Kevin Yu
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 EBO 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	January 25, 2017	Original

Prepared By:



Date:

January 25, 2017

Project Engineer

Check By:



Date:

January 25, 2017

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	15.237 (c)	Pass
Spurious emissions	15.237 (c)/15.209	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

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

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

4.1 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:	Vcom International Multi-media Corp
Address of Applicant:	80 Little Falls Road, Fairfield, NJ 07004 United States
Manufacturer:	Vcom International Multi-media Corp
Address of Manufacturer:	80 Little Falls Road, Fairfield, NJ 07004 United States

5.2 General Description of EUT

Product Name:	BLUETOOTH TRANSMITTER
Trade Mark:	HAMILTONBUHL
Model No.:	W900-BLTM
Operation Frequency:	72.1MHz, 72.5MHz, 72.9MHz, 74.7MHz
Channel numbers:	4
Modulation type:	FM
Antenna Type:	Integrated antenna
Antenna gain:	0dBi (declare by Applicant)
Power supply:	12V---1A or AC 12V,1A Adapter: Input:100-240V,50/60Hz,0.3A Output: 12V---1A

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	72.1MHz	2	72.5MHz	3	72.9MHz	4	74.7MHz

Note:

In section 15.31(m), regards to the operating frequency range within 1MHz, below frequencies was selected to be test:

Channel	Frequency
1	72.1MHz
3	72.9MHz
4	74.7MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting with FM modulation mode.
<i>Remark: 1. 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>	

5.4 Description of Support Units

None.

5.5 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none">• 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.
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5.6 Test Location

All tests were performed at: Global United Technology Services Co., Ltd. Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China
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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. 27 2016	Mar. 26 2017
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 14 2016	June 13 2017
4	Loop Antenna	ZHINAN	ZN30900A	GTS534	June 14 2016	June 13 2017
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 14 2016	June 13 2017
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 14 2016	June 13 2017
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2016	Mar. 26 2017
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2016	Mar. 26 2017
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2016	Mar. 26 2017
11	Coaxial cable	GTS	N/A	GTS210	Mar. 27 2016	Mar. 26 2017
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2016	Mar. 26 2017
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 14 2016	June 13 2017
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 14 2016	June 13 2017
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 14 2016	June 13 2017
16	Band filter	Amindeon	82346	GTS219	Mar. 27 2016	Mar. 26 2017
17	Constant temperature and humidity box	Oregon Scientific	BA-888	GTS248	June 14 2016	June 13 2017
18	D.C. Power Supply	Instek	PS-3030	GTS232	June 14 2016	June 13 2017

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	June 14 2016	June 13 2017
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 14 2016	June 13 2017
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 14 2016	June 13 2017
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 14 2016	June 13 2017
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 14 2016	June 13 2017
6	Coaxial Cable	GTS	N/A	GTS227	June 14 2016	June 13 2017
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
<i>The antenna is PCB antenna, the best case gain of the antenna is 0dB</i>	

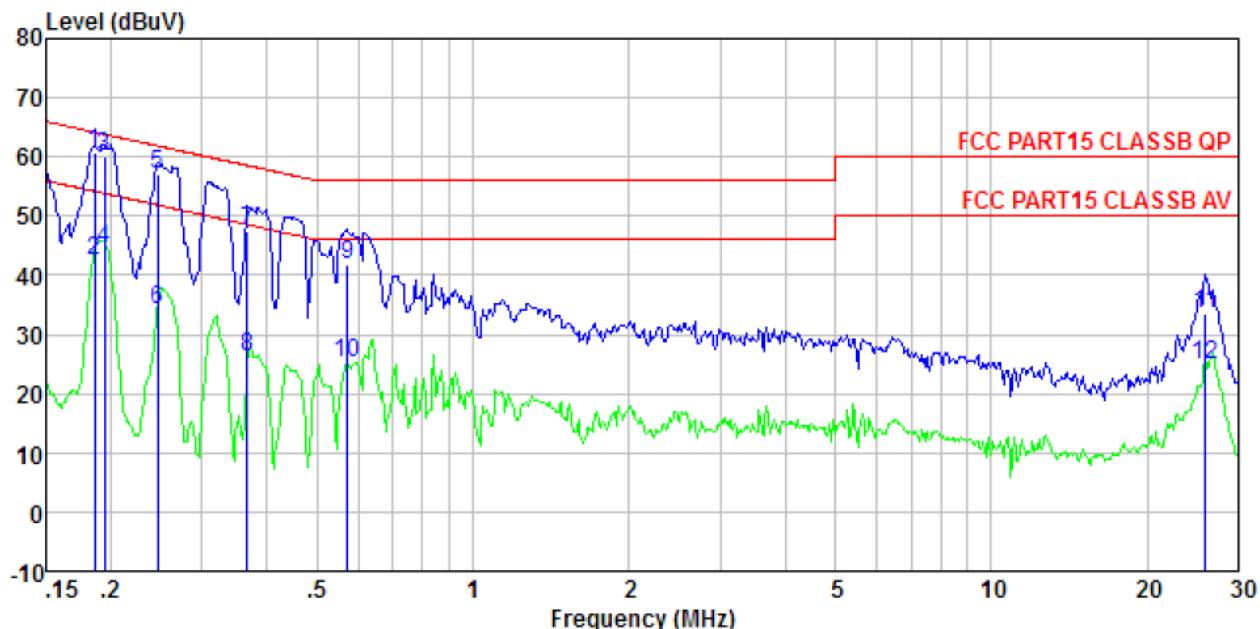
7.2 Conducted Emissions

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:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:	<p style="text-align: center;">Reference Plane</p> <p><i>Remark:</i> 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"> 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. 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). 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. 		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

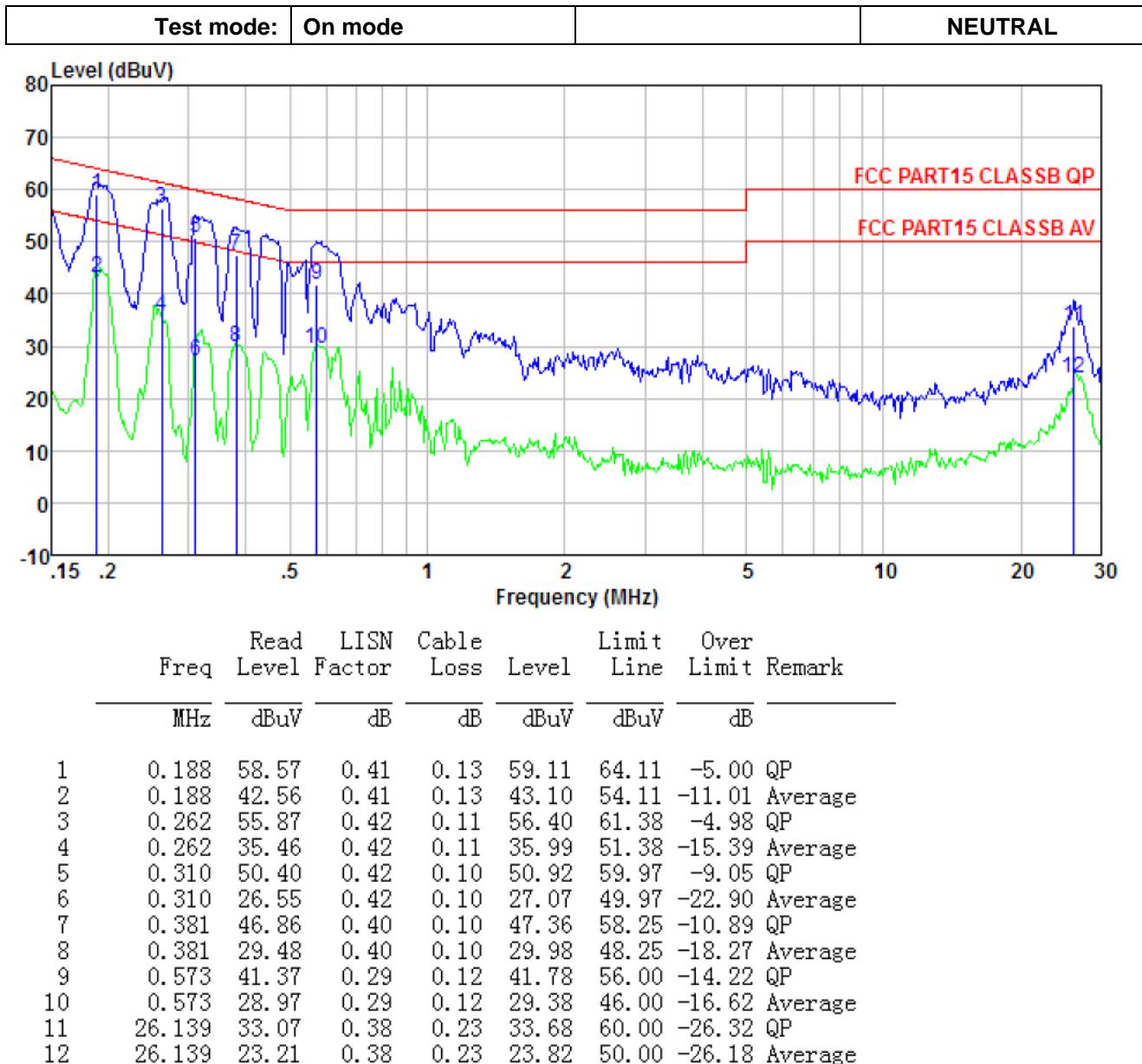
Measurement data:

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Test mode:	On mode	LINE
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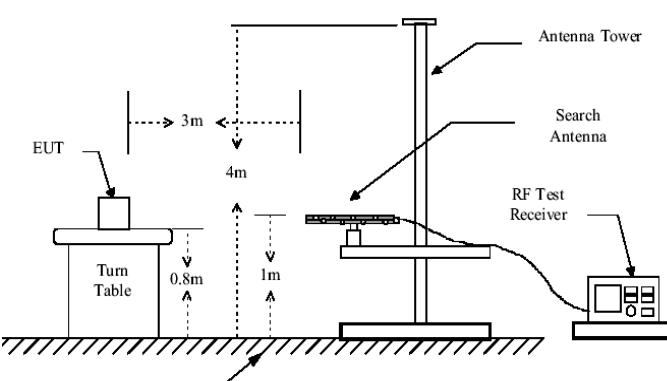
Freq	Read	LISN	Cable	Limit	Over	Remark	
	Level	Factor	Loss	Level	Line		
	MHz	dBuV	dB	dB	dBuV	dB	
1	0.186	60.08	0.42	0.13	60.63	64.20	-3.57 QP
2	0.186	41.97	0.42	0.13	42.52	54.20	-11.68 Average
3	0.194	59.66	0.43	0.13	60.22	63.84	-3.62 QP
4	0.194	43.99	0.43	0.13	44.55	53.84	-9.29 Average
5	0.247	56.37	0.44	0.11	56.92	61.86	-4.94 QP
6	0.247	33.72	0.44	0.11	34.27	51.86	-17.59 Average
7	0.367	47.02	0.42	0.10	47.54	58.56	-11.02 QP
8	0.367	25.77	0.42	0.10	26.29	48.56	-22.27 Average
9	0.573	41.30	0.32	0.12	41.74	56.00	-14.26 QP
10	0.573	24.92	0.32	0.12	25.36	46.00	-20.64 Average
11	25.864	32.77	0.41	0.23	33.41	60.00	-26.59 QP
12	25.864	24.08	0.41	0.23	24.72	50.00	-25.28 Average



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 15.237(c) & 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	30MHz to 1GHz								
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				
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark					
	72-73MHz, 74.6-74.8MHz, 75.2-76MHz	98.06		Average Value					
		118.06		Peak 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					
Limit: (band edge)	The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emissions limits specified in §15.209.								
	Test setup:								
<p>Below 1GHz</p>  <p>Above 1GHz</p>									

Test Procedure:	<ol style="list-style-type: none"> 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. 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. 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. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:

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7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
72.10	99.89	7.38	29.84	0.96	78.39	108.06	-29.67	Vertical
72.10	97.21	7.38	29.84	0.96	75.71	108.06	-32.35	Horizontal
72.90	99.12	7.38	29.84	0.97	77.63	108.06	-30.43	Vertical
72.90	95.16	7.38	29.84	0.97	73.67	108.06	-34.39	Horizontal
74.70	102.71	7.35	29.83	0.98	81.21	108.06	-26.85	Vertical
74.70	96.12	7.35	29.83	0.98	74.62	108.06	-33.44	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
72.10	89.38	7.38	29.84	0.96	67.88	98.06	-30.18	Vertical
72.10	87.70	7.38	29.84	0.96	66.20	98.06	-31.86	Horizontal
72.90	88.62	7.38	29.84	0.97	67.13	98.06	-30.93	Vertical
72.90	85.66	7.38	29.84	0.97	64.17	98.06	-33.89	Horizontal
74.70	95.22	7.35	29.83	0.98	73.72	98.06	-24.34	Vertical
74.70	86.63	7.35	29.83	0.98	65.13	98.06	-32.93	Horizontal

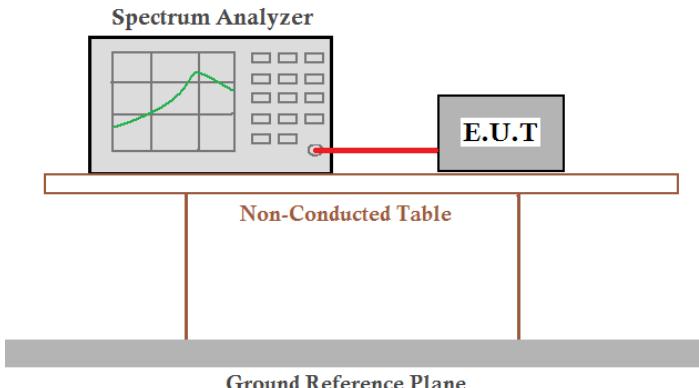
7.3.2 Spurious emissions

Test Frequency:		72.1MHz						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
72.00	48.21	7.38	29.84	0.96	26.71	40.00	-13.29	Vertical
73.00	51.45	7.38	29.84	0.97	29.96	40.00	-10.04	Vertical
144.20	59.04	7.43	29.43	1.54	38.58	43.50	-4.92	Vertical
216.30	56.73	10.78	29.38	1.95	40.08	46.00	-5.92	Vertical
288.40	55.55	13.21	29.95	2.32	41.13	46.00	-4.87	Vertical
360.50	51.04	14.97	29.62	2.73	39.12	46.00	-6.88	Vertical
432.60	48.92	16.23	29.42	3.03	38.76	46.00	-7.24	Vertical
504.70	42.12	17.73	29.40	3.41	33.86	46.00	-12.15	Vertical
576.80	41.61	19.14	29.30	3.71	35.16	46.00	-10.84	Vertical
648.90	40.56	20.65	29.29	4.10	36.02	46.00	-9.99	Vertical
721.00	41.33	22.21	29.34	4.55	38.75	46.00	-7.25	Vertical
72.00	47.43	7.38	29.84	0.96	25.93	40.00	-14.07	Horizontal
73.00	50.38	7.38	29.84	0.97	28.89	40.00	-11.11	Horizontal
144.20	57.66	7.43	29.43	1.54	37.20	43.50	-6.30	Horizontal
216.30	55.31	10.78	29.38	1.95	38.66	46.00	-7.34	Horizontal
288.40	54.49	13.21	29.95	2.32	40.07	46.00	-5.93	Horizontal
360.50	49.93	14.97	29.62	2.73	38.01	46.00	-7.99	Horizontal
432.60	48.10	16.23	29.42	3.03	37.94	46.00	-8.06	Horizontal
504.70	40.85	17.73	29.40	3.41	32.59	46.00	-13.42	Horizontal
576.80	40.27	19.14	29.30	3.71	33.82	46.00	-12.18	Horizontal
648.90	39.43	20.65	29.29	4.10	34.89	46.00	-11.12	Horizontal
721.00	40.38	22.21	29.34	4.55	37.80	46.00	-8.20	Horizontal

Test Frequency:		72.9MHz						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
72.00	47.29	7.38	29.84	0.96	25.79	40.00	-14.21	Vertical
73.00	52.58	7.38	29.84	0.97	31.09	40.00	-8.91	Vertical
145.80	59.80	7.43	29.43	1.54	39.34	43.50	-4.16	Vertical
218.70	57.64	10.79	29.38	1.96	41.01	46.00	-4.99	Vertical
291.60	56.56	13.22	29.95	2.33	42.16	46.00	-3.84	Vertical
364.50	51.79	14.99	29.62	2.75	39.91	46.00	-6.09	Vertical
437.40	49.72	16.24	29.42	3.04	39.58	46.00	-6.42	Vertical
510.30	43.47	17.74	29.40	3.43	35.24	46.00	-10.76	Vertical
583.20	42.95	19.15	29.30	3.73	36.53	46.00	-9.47	Vertical
656.10	41.45	20.66	29.29	4.12	36.94	46.00	-9.06	Vertical
729.00	42.77	22.23	29.34	4.56	40.22	46.00	-5.78	Vertical
72.00	46.25	7.38	29.84	0.96	24.75	40.00	-15.25	Horizontal
73.00	51.49	7.38	29.84	0.97	30.00	40.00	-10.00	Horizontal
145.80	58.92	7.43	29.43	1.54	38.46	43.50	-5.04	Horizontal
218.70	56.86	10.79	29.38	1.96	40.23	46.00	-5.77	Horizontal
291.60	55.14	13.22	29.95	2.33	40.74	46.00	-5.26	Horizontal
364.50	50.47	14.99	29.62	2.75	38.59	46.00	-7.41	Horizontal
437.40	48.93	16.24	29.42	3.04	38.79	46.00	-7.21	Horizontal
510.30	42.52	17.74	29.40	3.43	34.29	46.00	-11.71	Horizontal
583.20	41.76	19.15	29.30	3.73	35.34	46.00	-10.66	Horizontal
656.10	40.11	20.66	29.29	4.12	35.60	46.00	-10.40	Horizontal
729.00	41.90	22.23	29.34	4.56	39.35	46.00	-6.65	Horizontal

Test Frequency:		74.7MHz						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
74.60	56.78	7.35	29.83	0.98	35.28	40.00	-4.72	Vertical
74.80	57.06	7.35	29.83	0.98	35.56	40.00	-4.44	Vertical
149.40	60.10	7.68	29.41	1.57	39.94	43.50	-3.56	Vertical
224.10	58.88	11.07	29.44	1.99	42.50	46.00	-3.50	Vertical
298.80	51.52	13.50	30.00	2.35	37.37	46.00	-8.63	Vertical
373.50	51.83	14.97	29.62	2.73	39.91	46.00	-6.09	Vertical
448.20	45.82	16.47	29.40	3.08	35.97	46.00	-10.03	Vertical
522.90	43.00	17.90	29.39	3.46	34.96	46.00	-11.04	Vertical
597.60	42.52	19.25	29.30	3.75	36.22	46.00	-9.78	Vertical
672.30	41.57	20.69	29.30	4.14	37.10	46.00	-8.91	Vertical
747.00	42.10	22.26	29.36	4.58	39.58	46.00	-6.42	Vertical
74.60	55.70	7.35	29.83	0.98	34.20	40.00	-5.80	Horizontal
74.80	56.05	7.35	29.83	0.98	34.55	40.00	-5.45	Horizontal
149.40	59.18	7.68	29.41	1.57	39.02	43.50	-4.48	Horizontal
224.10	57.50	11.07	29.44	1.99	41.12	46.00	-4.88	Horizontal
298.80	50.78	13.50	30.00	2.35	36.63	46.00	-9.37	Horizontal
373.50	50.49	14.97	29.62	2.73	38.57	46.00	-7.43	Horizontal
448.20	44.68	16.47	29.40	3.08	34.83	46.00	-11.17	Horizontal
522.90	41.63	17.90	29.39	3.46	33.60	46.00	-12.41	Horizontal
597.60	41.51	19.25	29.30	3.75	35.21	46.00	-10.79	Horizontal
672.30	40.47	20.69	29.30	4.14	35.99	46.00	-10.01	Horizontal
747.00	40.66	22.26	29.36	4.58	38.14	46.00	-7.86	Horizontal

7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.237/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 72-73MHz, 74.6-74.8MHz, 75.2-76MHz
Test setup:	
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(kHz)	Result
Channel 1	51.50	Pass
Channel 3	40.72	Pass
Channel 4	43.37	Pass

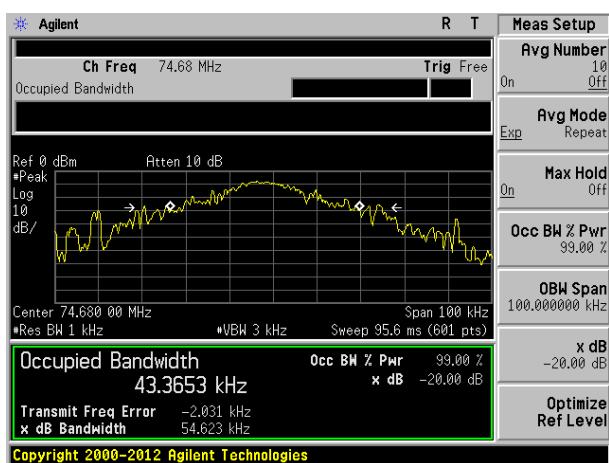
Test plot as follows:



Channel 1



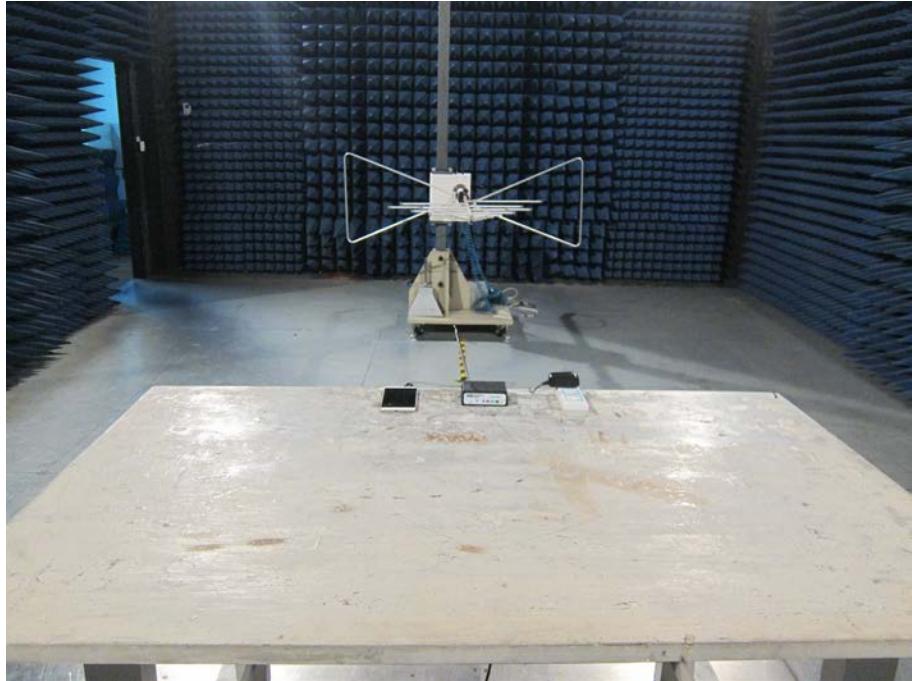
Channel 3



Channel 4

8 Test Setup Photo

Radiated Emission



Conducted Emission

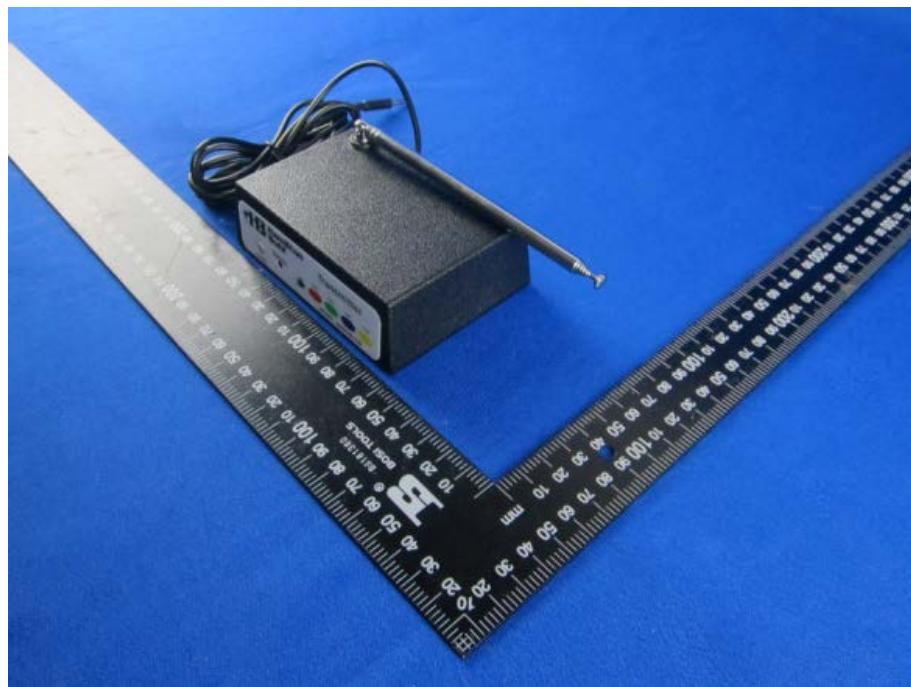


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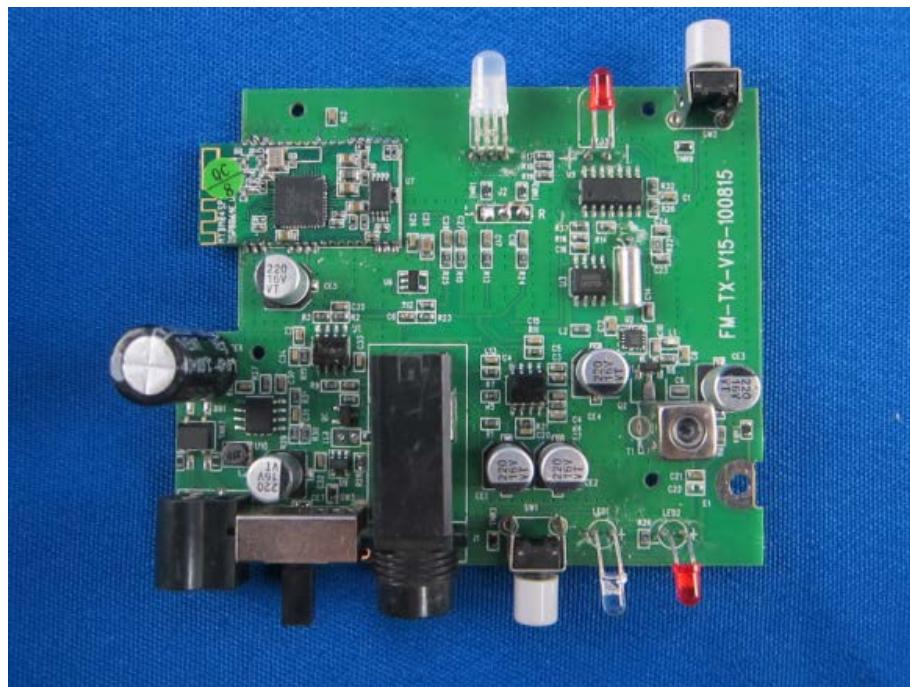
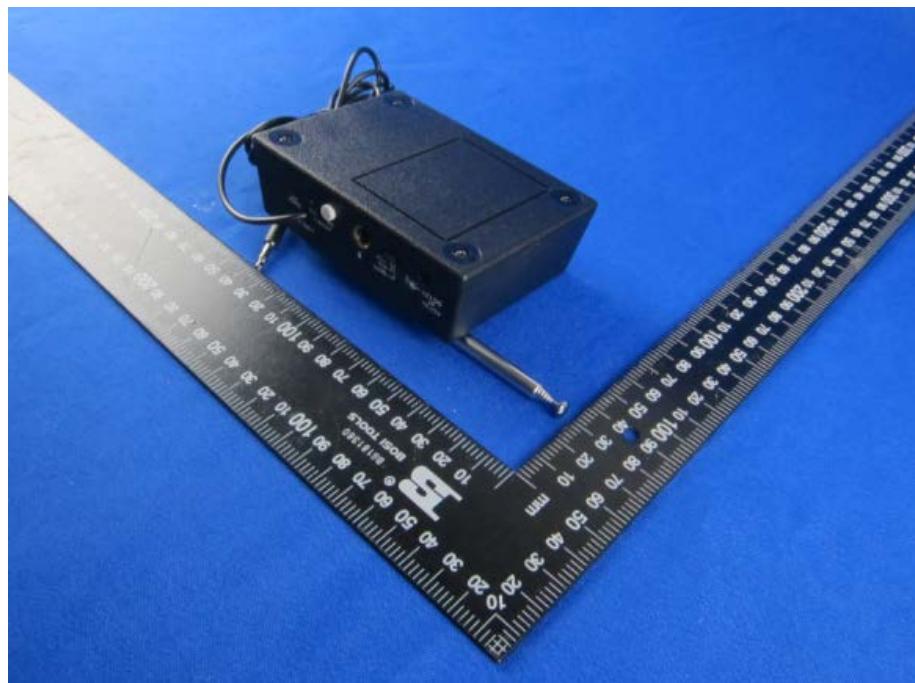
9 EUT Constructional Details



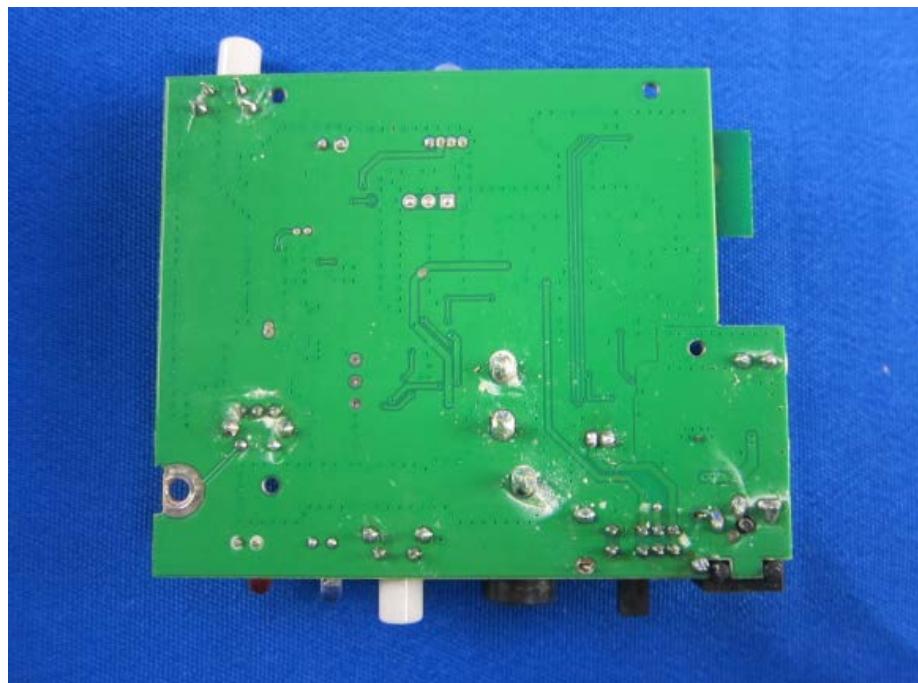
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-----End-----