

Global United Technology Services Co., Ltd.

Report No.: GTS201609000226E01

FCC REPORT (Bluetooth 4.0)

Applicant: Millennium Pacific Concept Limited

Address of Applicant: Room 915, North Tower, Concordia Plaza, 1 Science Museum

Road, Tsim Sha Tsui, Hong Kong

Equipment Under Test (EUT)

Product Name: Heart rate fitness Wristband

Model No.: AM-01

Trade Mark: Archon

FCC ID: 2AJXCAM-01

Applicable standards: FCC CFR Title 47 Part 15.249:2016

Date of sample receipt: September 20, 2016

Date of Test: September 21-26, 2016

Date of report issued: September 27, 2016

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	September 27, 2016	Original

Prepared By:	Tgor. Chen	Date:	September 27, 2016
	Project Engineer		
Check By:	Andy un	Date:	September 27, 2016

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.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Frequency Range Measurement Uncertainty	
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	± 3.45dB	(1)	
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.

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5 General Information

5.1 Client Information

Applicant:	Millennium Pacific Concept Limited	
Address of Applicant:	Room 915, North Tower, Concordia Plaza, 1 Science Museum Road,	
	Tsim Sha Tsui, Hong Kong	

5.2 General Description of EUT

Product Name:	Heart rate fitness Wristband			
Model No.:	AM-01			
Operation Frequency:	2402MHz~2480MHz			
Channel numbers:	40			
Channel separation:	2MHz			
Modulation type:	GFSK			
Antenna Type:	Ceramic antenna			
Antenna gain:	2dBi (declare by Applicant)			
Power supply:	DC 3.7V 100mAh Li-ion Battery			

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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
. !	. !	• !	• !	. !	. !		. !
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2440MHz
The Highest channel	2480MHz

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5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

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.

Pre-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	Х	Y	Z
Field Strength(dBuV/m)	88.35	89.58	87.97

5.4 Description of Support Units

None.

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 describe in a report file with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

• 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, August 15, 2016.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480 Fax: 0755-27798960

5.7 Description of Support Units

None.

5.8 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China



6 Test Instruments list

Rad	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	July. 03 2015	July. 02 2020	
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	June 29 2016	June 28 2017	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017	
10	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017	
11	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017	
12	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017	
16	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017	



Con	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	7.3(L)x3.1(W)x2.9(H)	GTS252	May 16 2014	May 15 2019	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June 29 2016	June 28 2017	
3	Pulse Limiter	R&S	ESH3-Z2	GTS224	June 29 2016	June 28 2017	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 29 2016	June 28 2017	
5	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June 29 2016	June 28 2017	
6	Coaxial Cable	GTS	N/A	GTS227	June 29 2016	June 28 2017	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Thermo meter	KTJ	TA328	GTS233	June 29 2016	June 28 2017	

Gen	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	June 29 2016	June 28 2017						



7 Test results and Measurement Data

7.1 Antenna requirement

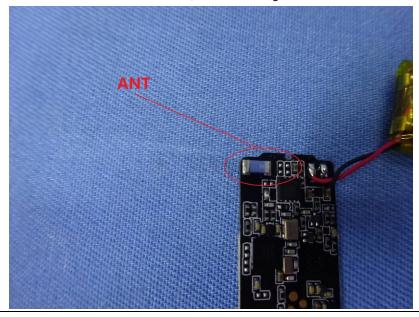
Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

The antenna is Ceramic antenna, the best case gain of the antenna is 2.00dBi



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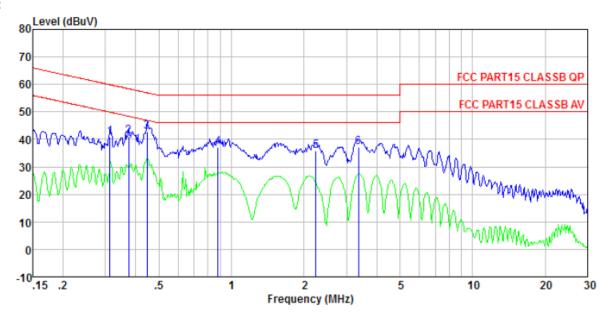
7.2 Conducted Emissions

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, Sv	weep time=auto					
Limit:		' Limit (c	HRuV)				
Littic	Frequency range (MHz)	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	n of the frequency.					
Test setup:	Reference Plane						
	AUX Filter AC power Equipment E.U.T Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test procedure:	 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. 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). 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 						
Test Instruments:	according to ANSI C63.10:2013 on conducted measurement. Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						
	L						

Measurement data:



Line:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0227

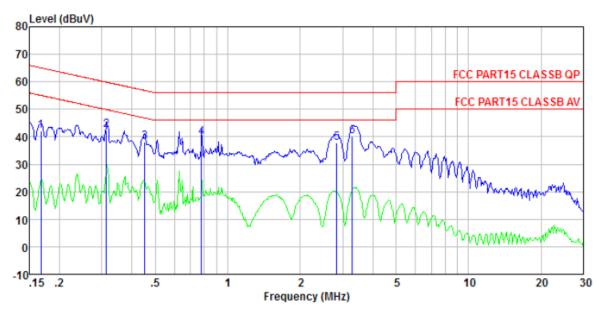
Test mode : Transmitting mode

Test Engineer: Boy

000	Diagricor.		LISN	Cable	Limit		Over	
	Freq		Factor				Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5	0.880	42.73 36.90	0.11 0.12 0.14	0.10 0.11 0.13	58.39 56.93 56.00	40. 99 42. 96 37. 17	-17. 40 -13. 97 -18. 83	QP QP QP
6	2. 237 3. 364		0.13 0.18					



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0227

Test mode : Transmitting mode

Test Engineer: Boy

	Freq		LISN Factor					Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1 2		41.82 42.20	0.07 0.06					
3 4			0.06 0.07					
5 6	2. 839 3. 293		0.11 0.13					

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

7.3 Radiated Emission M	.3 Radiated Emission Method										
Test Requirement:	FCC Part15 C S	Section 15.20	9								
Test Method:	ANSI C63.10:20	013									
Test Frequency Range:	30MHz to 25GH	Ηz									
Test site:	Measurement D	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						
	7,0000 10112	Peak	1MHz	10Hz	Average Value						
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark						
(Field strength of the fundamental signal)	2400MHz-24	183.5MHz	94.0	0	Average Value						
Limit:	Freque		Limit (dBuV		Remark						
(Spurious Emissions)	30MHz-8		40.0		Quasi-peak Value						
	88MHz-2 216MHz-9		43.5 46.0		Quasi-peak Value						
	960MHz-		54.0		Quasi-peak Value Quasi-peak Value Average Value						
			54.0								
	Above 1GHz Above 1GHz 74.00 Average value 74.00 Peak Value Emissions radiated outside of the specified frequency bands, except fo										
(band edge) Test setup:	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. Below 1GHz										

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Report No.: GTS201609000226E01 Above 1GHz Antenna Tower EUT Horn Antenna Spectrum Analyzer Turn Table Amplifier Test Procedure: 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 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**

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Measurement data:

7.3.1 Field Strength of The Fundamental Signal

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
2402.00	90.35	27.58	5.39	34.01	89.31	114.00	-24.69	Vertical
2402.00	85.27	27.58	5.39	34.01	84.23	114.00	-29.77	Horizontal
2440.00	90.63	27.48	5.43	33.96	89.58	114.00	-24.42	Vertical
2440.00	84.72	27.48	5.43	33.96	83.67	114.00	-30.33	Horizontal
2480.00	89.69	27.52	5.47	33.92	88.76	114.00	-25.24	Vertical
2480.00	83.93	27.52	5.47	33.92	83.00	114.00	-31.00	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	80.64	27.58	5.39	34.01	79.60	94.00	-14.40	Vertical
2402.00	75.61	27.58	5.39	34.01	74.57	94.00	-19.43	Horizontal
2440.00	80.67	27.48	5.43	33.96	79.62	94.00	-14.38	Vertical
2440.00	74.12	27.48	5.43	33.96	73.07	94.00	-20.93	Horizontal
2480.00	79.70	27.52	5.47	33.92	78.77	94.00	-15.23	Vertical
2480.00	74.30	27.52	5.47	33.92	73.37	94.00	-20.63	Horizontal

Note: RBW 3MHz VBW 3MHz PEAK detector is for PK value, RMS detector is for AV value

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7.3.2 Spurious emissions

■ Below 1GHz

= Below Total											
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			
35.25	40.20	14.39	0.61	30.07	25.13	40.00	-14.87	Vertical			
47.83	36.01	15.38	0.75	30.01	22.13	40.00	-17.87	Vertical			
96.10	30.54	14.90	1.16	29.72	16.88	43.50	-26.62	Vertical			
167.82	36.49	10.90	1.67	29.33	19.73	43.50	-23.77	Vertical			
216.02	33.57	13.07	1.93	29.36	19.21	46.00	-26.79	Vertical			
372.01	27.27	16.53	2.72	29.63	16.89	46.00	-29.11	Vertical			
47.33	26.43	15.41	0.74	30.01	12.57	40.00	-27.43	Horizontal			
101.64	26.92	15.02	1.21	29.69	13.46	43.50	-30.04	Horizontal			
219.08	35.08	13.17	1.95	29.38	20.82	46.00	-25.18	Horizontal			
451.14	25.36	17.58	3.09	29.39	16.64	46.00	-29.36	Horizontal			
711.67	25.78	20.95	4.13	29.20	21.66	46.00	-24.34	Horizontal			
952.09	29.33	23.43	5.04	29.10	28.70	46.00	-17.30	Horizontal			



■ Above 1GHz

st channel:	Lowest channel
-------------	----------------

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
4804.00	35.33	31.78	8.60	32.09	43.62	74.00	-30.38	Vertical
7206.00	30.52	36.15	11.65	32.00	46.32	74.00	-27.68	Vertical
9608.00	30.30	37.95	14.14	31.62	50.77	74.00	-23.23	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	39.21	31.78	8.60	32.09	47.50	74.00	-26.50	Horizontal
7206.00	32.10	36.15	11.65	32.00	47.90	74.00	-26.10	Horizontal
9608.00	29.54	37.95	14.14	31.62	50.01	74.00	-23.99	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Average value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4804.00	24.52	31.78	8.60	32.09	32.81	54.00	-21.19	Vertical		
7206.00	19.43	36.15	11.65	32.00	35.23	54.00	-18.77	Vertical		
9608.00	18.63	37.95	14.14	31.62	39.10	54.00	-14.90	Vertical		
12010.00	*					54.00		Vertical		
14412.00	*					54.00		Vertical		
4804.00	28.53	31.78	8.60	32.09	36.82	54.00	-17.18	Horizontal		
7206.00	21.47	36.15	11.65	32.00	37.27	54.00	-16.73	Horizontal		
9608.00	18.20	37.95	14.14	31.62	38.67	54.00	-15.33	Horizontal		
12010.00	*					54.00		Horizontal		
14412.00	*					54.00		Horizontal		

Remark:

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^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channe	l:				Midd	dle channel			
Peak value:				1					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	35.77	31.85	8.67	32.12	2	44.17	74.00	-29.83	Vertical
7320.00	30.81	36.37	11.72	31.89	9	47.01	74.00	-26.99	Vertical
9760.00	30.56	38.35	14.25	31.6	2	51.54	74.00	-22.46	Vertical
12200.00	*						74.00		Vertical
14640.00	*						74.00		Vertical
4880.00	39.74	31.85	8.67	32.12	2	48.14	74.00	-25.86	Horizontal
7320.00	32.43	36.37	11.72	31.89	9	48.63	74.00	-25.37	Horizontal
9760.00	29.84	38.35	14.25	31.6	2	50.82	74.00	-23.18	Horizontal
12200.00	*						74.00		Horizontal
14640.00	*						74.00		Horizontal
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	24.88	31.85	8.67	32.12	2	33.28	54.00	-20.72	Vertical
7320.00	19.67	36.37	11.72	31.89	9	35.87	54.00	-18.13	Vertical
9760.00	18.85	38.35	14.25	31.6	2	39.83	54.00	-14.17	Vertical
12200.00	*						54.00		Vertical
14640.00	*						54.00		Vertical
4880.00	28.94	31.85	8.67	32.12	2	37.34	54.00	-16.66	Horizontal
7320.00	21.75	36.37	11.72	31.89	9	37.95	54.00	-16.05	Horizontal
9760.00	18.45	38.35	14.25	31.6	2	39.43	54.00	-14.57	Horizontal
12200.00	*						54.00		Horizontal
		i e	•						

Remark:

14640.00

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Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

Horizontal

54.00

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channel	Test channel:					Highest channel			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.96	31.93	8.73	32.1	6	44.46	74.00	-29.54	Vertical
7440.00	30.94	36.59	11.79	31.7	8	47.54	74.00	-26.46	Vertical
9920.00	30.67	38.81	14.38	31.8	8	51.98	74.00	-22.02	Vertical
12400.00	*						74.00		Vertical
14880.00	*						74.00		Vertical
4960.00	39.97	31.93	8.73	32.1	6	48.47	74.00	-25.53	Horizontal
7440.00	32.57	36.59	11.79	31.7	8	49.17	74.00	-24.83	Horizontal
9920.00	29.97	38.81	14.38	31.8	8	51.28	74.00	-22.72	Horizontal
12400.00	*						74.00		Horizontal
14880.00	*						74.00		Horizontal
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.07	31.93	8.73	32.1	6	33.57	54.00	-20.43	Vertical
7440.00	19.81	36.59	11.79	31.7	8	36.41	54.00	-17.59	Vertical
9920.00	18.96	38.81	14.38	31.8	8	40.27	54.00	-13.73	Vertical
12400.00	*						54.00		Vertical
14880.00	*						54.00		Vertical
4960.00	29.16	31.93	8.73	32.1	6	37.66	54.00	-16.34	Horizontal
7440.00	21.90	36.59	11.79	31.7	8	38.50	54.00	-15.50	Horizontal
9920.00	18.59	38.81	14.38	31.8	8	39.90	54.00	-14.10	Horizontal
12400.00	*						54.00		Horizontal

Remark:

14880.00

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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54.00

Horizontal



7.3.3 Bandedge emissions

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

Test channel:	Lowest channel

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
2390.00	43.96	27.59	5.38	30.18	46.75	74.00	-27.25	Horizontal
2400.00	60.90	27.58	5.39	30.18	56.33	74.00	-17.67	Horizontal
2390.00	44.61	27.59	5.38	30.18	47.40	74.00	-26.60	Vertical
2400.00	63.05	27.58	5.39	30.18	56.35	74.00	-17.65	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	34.26	27.59	5.38	30.18	37.05	54.00	-16.95	Horizontal
2400.00	45.56	27.58	5.39	30.18	43.25	54.00	-10.75	Horizontal
2390.00	34.28	27.59	5.38	30.18	37.07	54.00	-16.93	Vertical
2400.00	47.32	27.58	5.39	30.18	45.76	54.00	-8.24	Vertical

hannel:	annel:		Highest channel	
:hannel:	annel:		Highest channel	

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
2483.50	46.19	27.53	5.47	29.93	49.26	74.00	-24.74	Horizontal
2500.00	45.16	27.55	5.49	29.93	48.27	74.00	-25.73	Horizontal
2483.50	47.21	27.53	5.47	29.93	50.28	74.00	-23.72	Vertical
2500.00	46.26	27.55	5.49	29.93	49.37	74.00	-24.63	Vertical

Average value:

	g								
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	
2483.50	37.10	27.53	5.47	29.93	40.17	54.00	-13.83	Horizontal	
2500.00	34.95	27.55	5.49	29.93	38.06	54.00	-15.94	Horizontal	
2483.50	38.40	27.53	5.47	29.93	41.47	54.00	-12.53	Vertical	
2500.00	34.96	27.55	5.49	29.93	38.07	54.00	-15.93	Vertical	

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

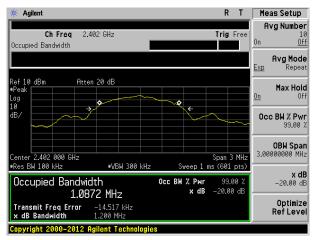
Measurement Data

Test channel	Frequency	20dB bandwidth(MHz)	Result
	(MHz)		
Lowest	2402	1.200	Pass
Middle	2440	1.195	Pass
Highest	2480	1.203	Pass

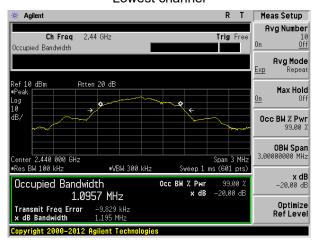
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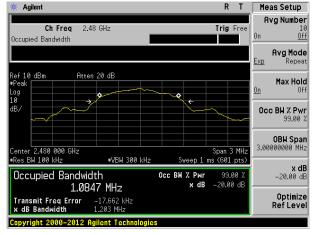
Test plot as follows:



Lowest channel



Middle channel



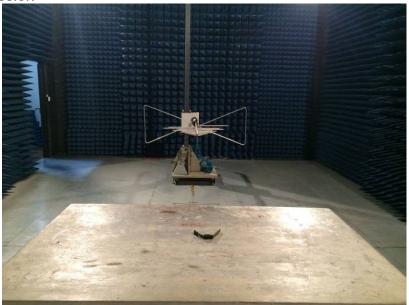
Highest channel

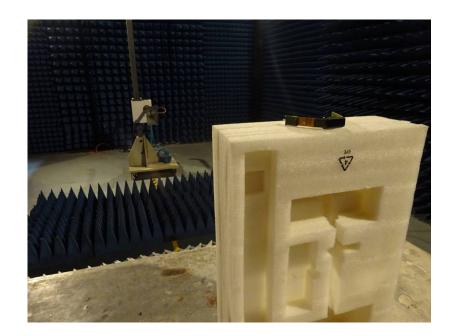
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8 Test Setup Photo

Radiated Emission







Conducted Emission





9 EUT Constructional Details



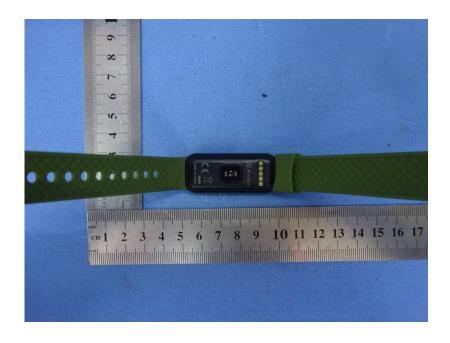


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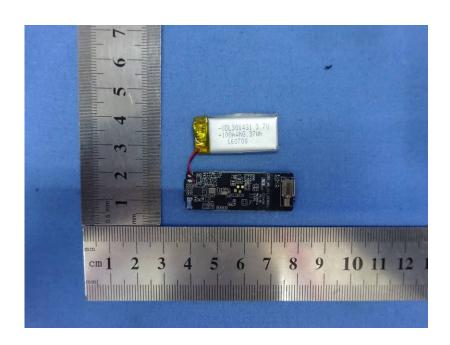




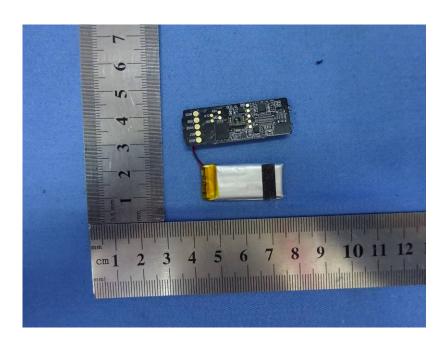














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