

TEST REPORT

FCC ID: 2AN6V-BAOBB1003

Product: Kayak drive unit

Model No.: BA-OBB-1003

Additional Model: N/A

Trade Mark: BIXPY

Report No.: TCT171102E016

Issued Date: Nov. 07, 2016

Issued for:

BIXPY LLC

4901 Morena Blvd, # 322, San Diego, CA, 92117, USA

Issued By:

Shenzhen Tongce Testing Lab.

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Appendix A: Photographs of Test Setup

Appendix B: Photographs of EUT

1. Test Certification

Product:	Kayak drive unit
Model No.:	BA-OBB-1003
Additional Model:	N/A
Trade Mark:	BIXPY
Applicant:	BIXPY LLC
Address:	4901 Morena Blvd, # 322, San Diego, CA, 92117, USA
Manufacturer:	SHENZHEN PACIFIC INNOVATION TECHNOLOGY CO., LTD.
Address:	Unit A, 3/F, HongXin Industrial Park, Guanlan Town, LongHua District, Shenzhen, P.R.China
Date of Test:	Oct. 10, 2017 – Oct. 11, 2017
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.231

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:


Beryl Zhao

Date: Oct. 11, 2017

Reviewed By:


Joe Zhou

Date: Nov. 07, 2017

Approved By:


Tomsin

Date: Nov. 07, 2017



2. Test Result Summary

Requirement	CFR 47 Section	Result
Conduction Emission, 0.15MHz to 30MHz	§15.207	N/A
Manually Activated Transmitter	§15.231(a)	PASS
Radiation Emission	§15.231(b), §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§15.231(c)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	Kayak drive unit
Model :	BA-OBB-1003
Additional Model:	N/A
Trade Mark:	BIXPY
Operation Frequency:	433.985MHz
Modulation Technology:	ASK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi (declare by Manufacturer)
Power Supply:	DC3.0V (1 x 3V"CR2032"Button cell)

4. General Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
<p>The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p>	

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. New battery is used during all test:

433.985MHz	Axis	X	Y	Z
	Field Strength(dBuV/m)	73.35	73.98	73.59

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. Facilities and Accreditations

5.1. Facilities

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

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

Tel: 86-755-27673339

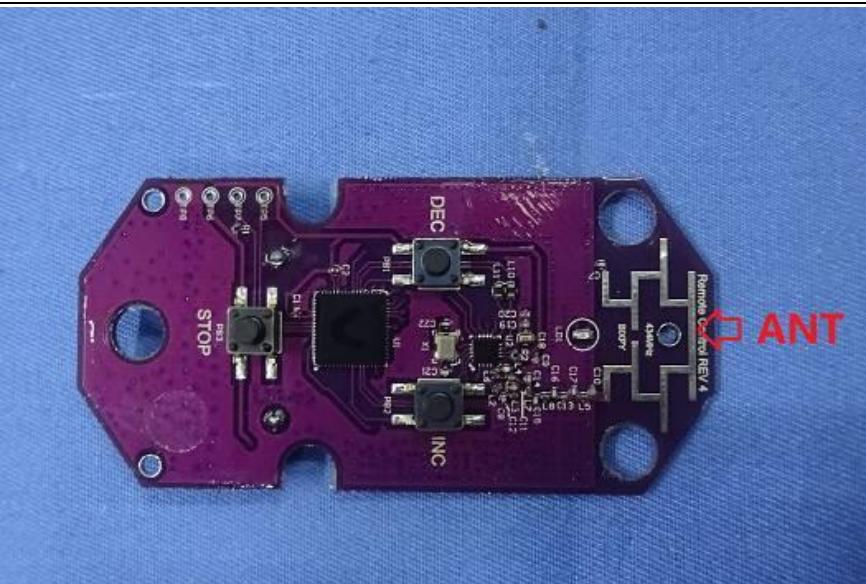
5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

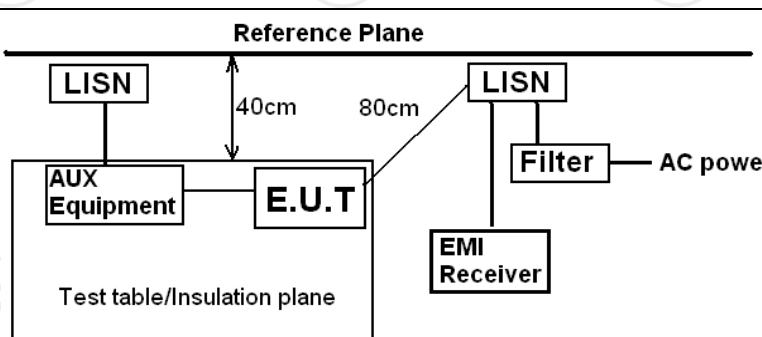
6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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.
15.247(c) (1)(i) requirement:	(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.
E.U.T Antenna:	The antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 0dBi.
	

6.2. Conducted Emission

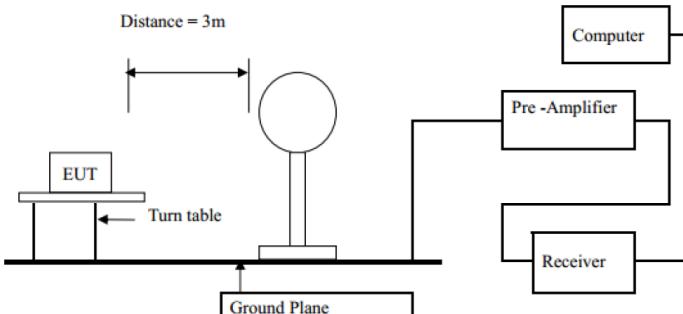
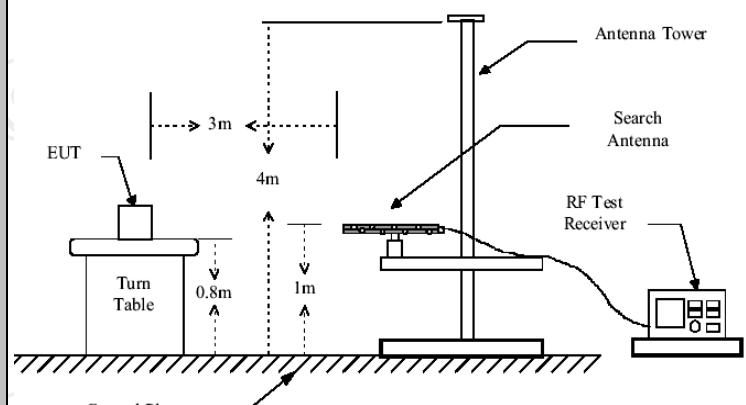
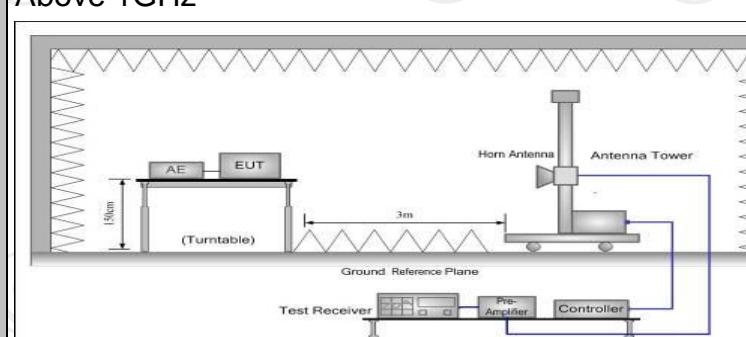
6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207																	
Test Method:	ANSI C63.4:2014																	
Frequency Range:	150 kHz to 30 MHz																	
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto																	
Limits:	<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th></th> <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>			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><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																	
Test Mode:	Transmitting Mode																	
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 C63.4: 2014 on conducted measurement. 																	
Test Result:	N/A; The EUT powered by battery, so this test item is not applicable																	

6.3. Radiated Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209				
Test Method:	ANSI C63.4: 2014 and ANSI C63.10:2013				
Frequency Range:	9 kHz to 5 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. 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 rotatable 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 setup:	<p>For radiated emissions below 30MHz</p> 
	<p>30MHz to 1GHz</p> 
	<p>Above 1GHz</p> 
	<p>Test Mode: Transmitting Mode</p> <p>Test results: PASS</p>

6.3.2. Limit

Fundamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750*	125 to 375*
174-260	3750	375
260-470	3750 to 12500*	375 to 1250*
Above 470	12500	1250
Horn Antenna	Schwarzbeck	BBHA 9120D

*Linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, $\mu\text{V}/\text{m}$ at 3 meters = $56.81818(F) - 6136.3636$;

for the band 260-470 MHz, $\mu\text{V}/\text{m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

For EUT

Fundamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission(dB $\mu\text{V}/\text{m}$)
433.985	80.83	60.83

Note:

1. Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions.
2. According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.
3. According to 15.231(b), The limits on the field strength of the spurious emissions in the above table is based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits one higher field strength.

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dB μ V) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand). After pre-test. It was found that the worse radiated emission was get at the lying position.
5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula $Ld1 = Ld2 * (d2/d1)$

6.3.3. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHWARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Coax cable	TCT	N/A	N/A	Sep. 27, 2018
Coax cable	TCT	N/A	N/A	Sep. 27, 2018
Coax cable	TCT	N/A	N/A	Sep. 27, 2018
Coax cable	TCT	N/A	N/A	Sep. 27, 2018
EMI Test Software	Shurpure Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.4. Test Data

Duty Cycle Test Data:

Total time one cycle(ms)	Effective time one cycle(ms)	Duty Cycle	AV Factor(dB)
42.84	32.67	0.763	-2.35

Note:
 $\text{Duty Cycle} = \text{Effective time one cycle} / \text{Total time one cycle} = 0.763$
 $\text{AV Factor} = 20 \log(\text{Duty Cycle})$



Field Strength of Fundamental

433.985MHz:

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
433.985	67.42	16.17	3.02	29.43	57.18	100.83	-43.65	Horizontal
433.985	54.10	16.17	3.02	29.43	43.86	100.83	-56.97	Vertical

Average value:

Frequency (MHz)	Peak Value (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.985	57.18	-2.35	54.83	80.83	-26.00	Horizontal
433.985	43.86	-2.35	41.51	80.83	-39.32	Vertical

Harmonic emissions

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	polarization
867.970	26.85	21.91	4.73	29.13	24.36	80.83	Horizontal
867.970	24.62	21.91	4.73	29.13	22.13	80.83	Vertical

Average value:

Frequency (MHz)	Peak Value (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Polarization
867.970	24.36	-2.35	22.01	60.83	Horizontal
867.970	22.13	-2.35	19.78	60.83	Vertical

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Below 1GHz

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
30.85	33.65	11.30	0.56	30.09	15.42	40.00	-24.58	Vertical
100.23	32.62	12.10	1.19	29.70	16.21	43.50	-27.29	Vertical
167.82	36.70	8.33	1.67	29.33	17.37	43.50	-26.13	Vertical
216.02	30.93	10.78	1.93	29.36	14.28	46.00	-31.72	Vertical
554.83	24.66	18.51	3.54	29.30	17.41	46.00	-28.59	Vertical
787.85	24.51	21.12	4.41	29.20	20.84	46.00	-25.16	Vertical
51.66	25.23	12.20	0.79	29.99	8.23	40.00	-31.77	Horizontal
95.76	25.73	11.35	1.16	29.72	8.52	43.50	-34.98	Horizontal
232.53	25.46	11.27	2.03	29.50	9.26	46.00	-36.74	Horizontal
373.31	25.46	14.97	2.73	29.62	13.54	46.00	-32.46	Horizontal
677.58	25.72	19.68	4.00	29.22	20.18	46.00	-25.82	Horizontal
965.54	26.05	22.59	5.09	29.10	24.63	54.00	-29.37	Horizontal

Above 1GHz

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
1155.00	41.62	25.03	4.43	33.01	38.07	74.00	-35.93	Vertical
2555.00	38.83	27.62	5.54	33.84	38.15	74.00	-35.85	Vertical
3320.00	39.47	28.39	6.60	32.97	41.49	74.00	-32.51	Vertical
4230.00	33.62	30.32	8.09	31.92	40.11	74.00	-33.89	Vertical
4990.00	31.93	31.95	8.75	32.18	40.45	74.00	-33.55	Vertical
5665.00	31.97	32.40	9.74	32.34	41.77	74.00	-32.23	Vertical
1515.00	41.54	25.20	4.69	33.62	37.81	74.00	-36.19	Horizontal
2885.00	38.76	28.42	5.83	33.45	39.56	74.00	-34.44	Horizontal
3465.00	37.13	28.87	6.89	32.79	40.10	74.00	-33.90	Horizontal
4340.00	32.38	30.88	8.19	31.86	39.59	74.00	-34.41	Horizontal
5285.00	31.87	31.72	9.19	32.32	40.46	74.00	-33.54	Horizontal
5840.00	31.36	32.70	9.99	32.22	41.83	74.00	-32.17	Horizontal

Average value:

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1155.00	38.07	-2.35	35.72	54.00	-18.28	Vertical
2555.00	38.15	-2.35	35.80	54.00	-18.20	Vertical
3320.00	41.49	-2.35	39.14	54.00	-14.86	Vertical
4230.00	40.11	-2.35	37.76	54.00	-16.24	Vertical
4990.00	40.45	-2.35	38.10	54.00	-15.90	Vertical
5665.00	41.77	-2.35	39.42	54.00	-14.58	Vertical
1515.00	37.81	-2.35	35.46	54.00	-18.54	Horizontal
2885.00	39.56	-2.35	37.21	54.00	-16.79	Horizontal
3465.00	40.10	-2.35	37.75	54.00	-16.25	Horizontal
4340.00	39.59	-2.35	37.24	54.00	-16.76	Horizontal
5285.00	40.46	-2.35	38.11	54.00	-15.89	Horizontal
5840.00	41.83	-2.35	39.48	54.00	-14.52	Horizontal

Remark:

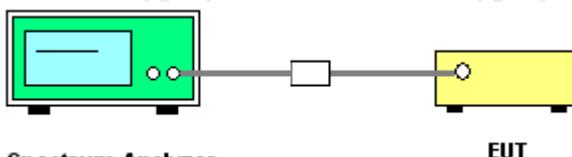
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. Average value = Peak value + Duty cycle factor

Note:

1. Emission Level = Peak Reading + Correction Factor; Correction Factor = Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (dB μ V/m) - limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown “*” in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6.4. Manually Activated Transmitter

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(a)
Test Method:	ANSI C63.10: 2013
Limit:	According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings. VBW = 1MHz, VBW \geq RBW; Span = 0; Sweep Time = 5s; Detector function = peak; 4. Measure and record the results in the test report.
Test setup:	 <p>Spectrum Analyzer EUT</p>
Test Mode:	Transmitting Mode
Test results:	PASS

6.4.2. Test Instruments

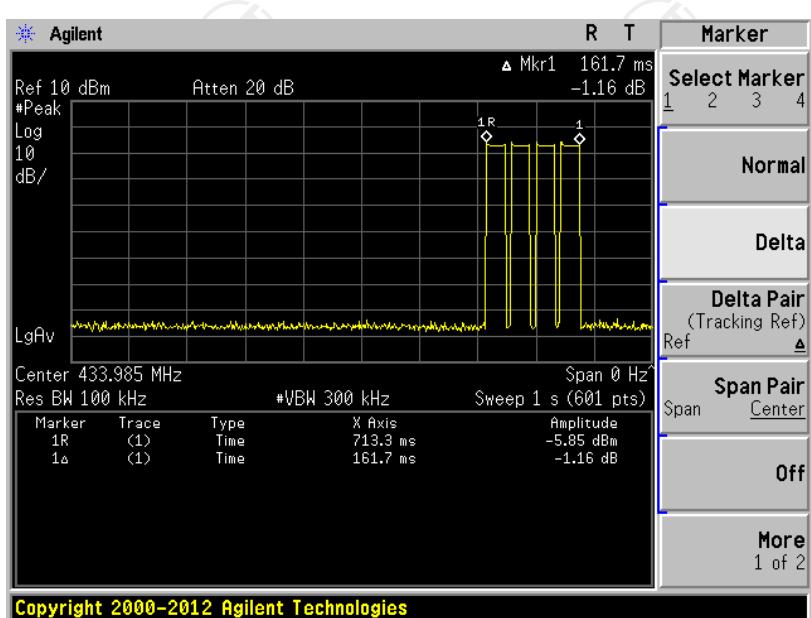
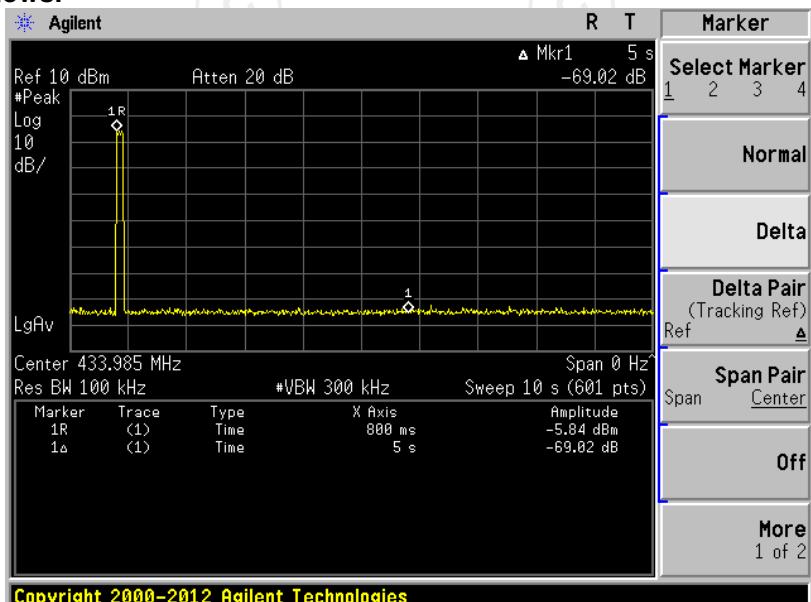
RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4.3. Test data

Test Frequency (MHz)	Activation Time (second)	Limit (second)	Result
433.985	0.162	<5.0	Pass

Test plots as follows:



6.5. Occupied Bandwidth

6.5.1. Test Specification

6.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.5.3. Test data

Test Frequency (MHz)	20dB bandwidth (MHz)	Limit (MHz)	Result
433.985	0.110	1.085	Pass

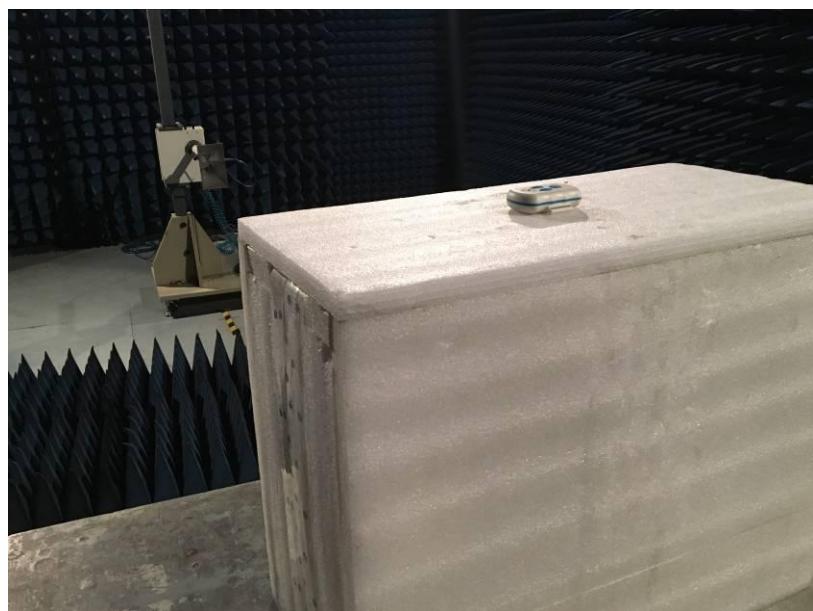
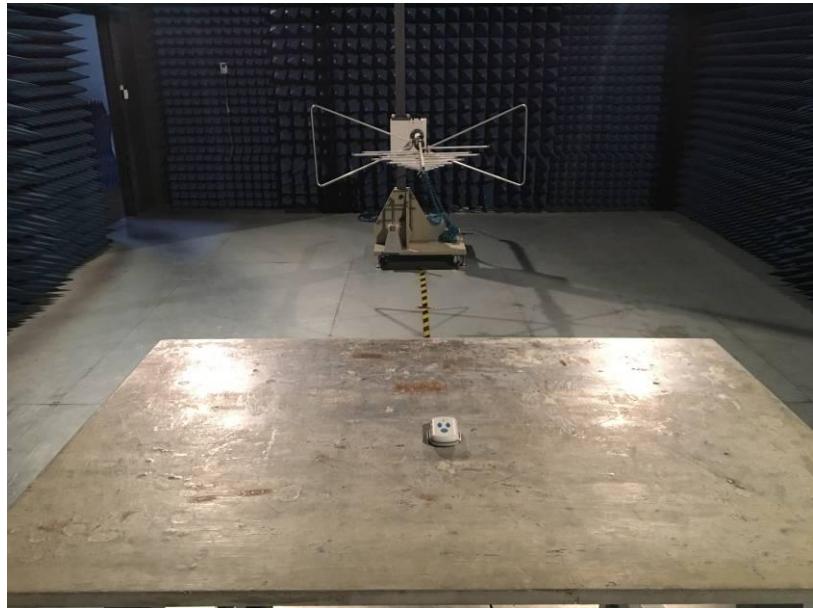
Note: Limit(433.985MHz)= Fundamental frequency×0.25%=433.985×0.25%=1.085MHz

Test plots as follows:



Appendix A: Photographs of Test Setup

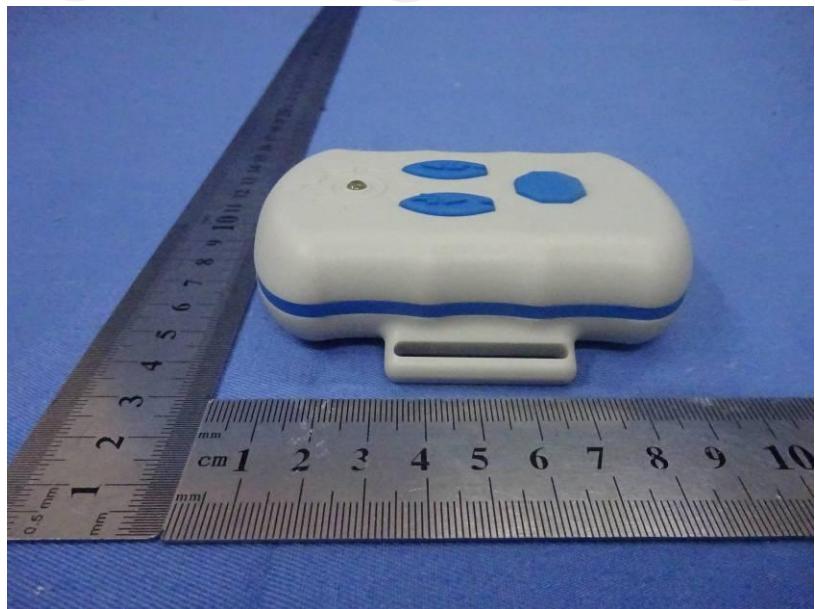
Radiated Emission



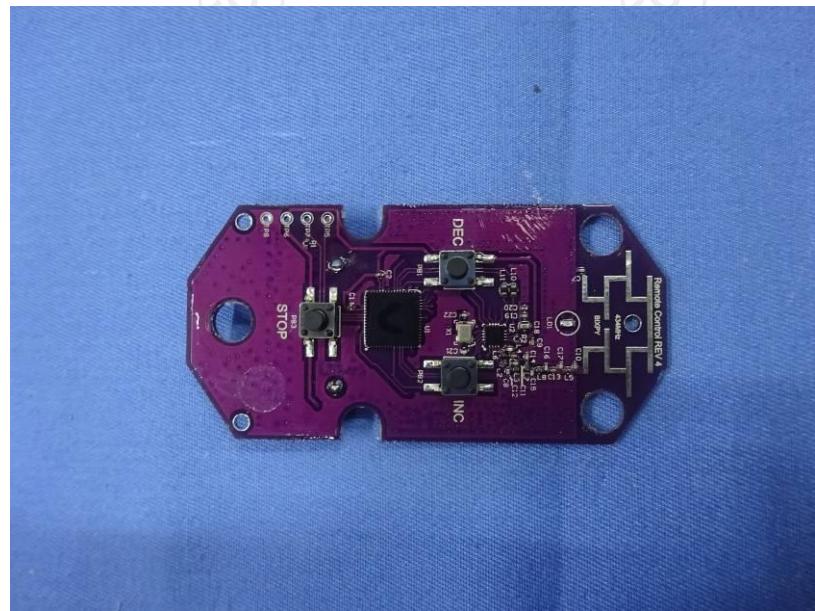
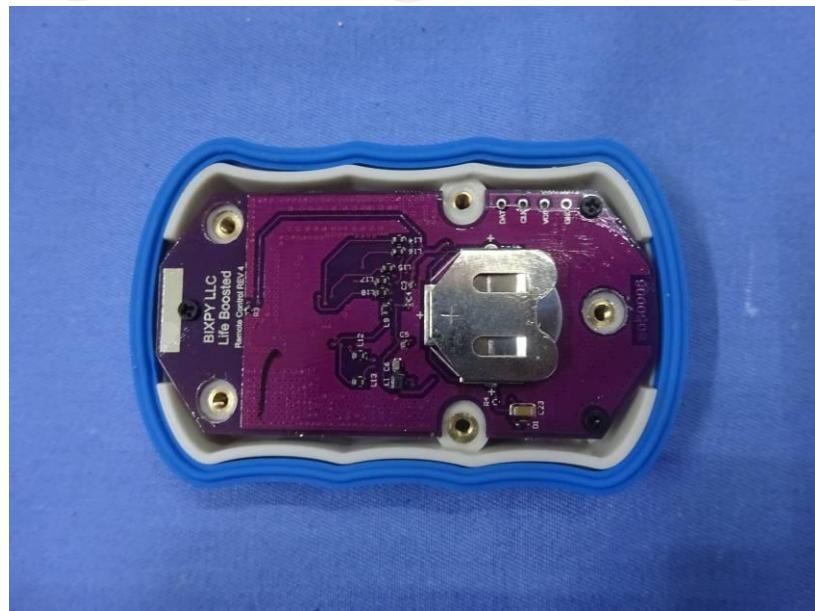
**Appendix B: Photographs of EUT
Model: BA-OBB-1003
External Photos**

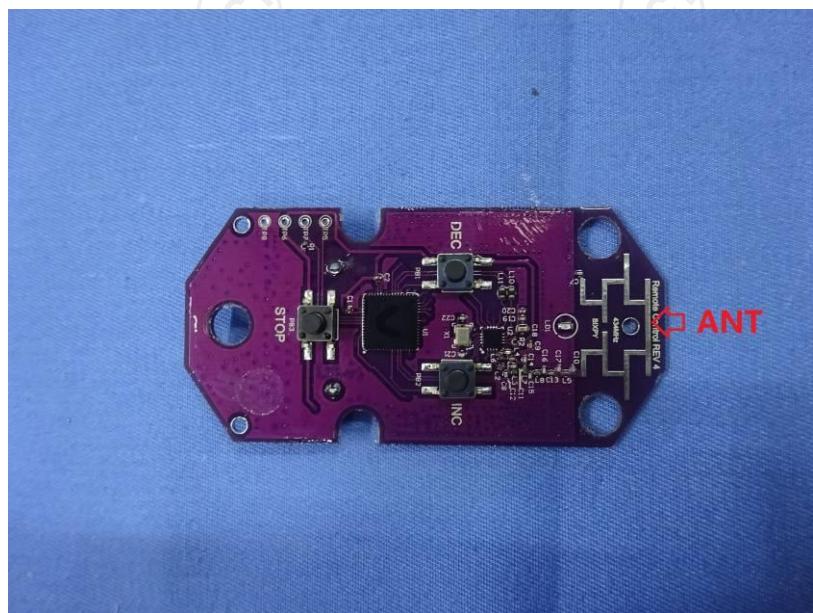
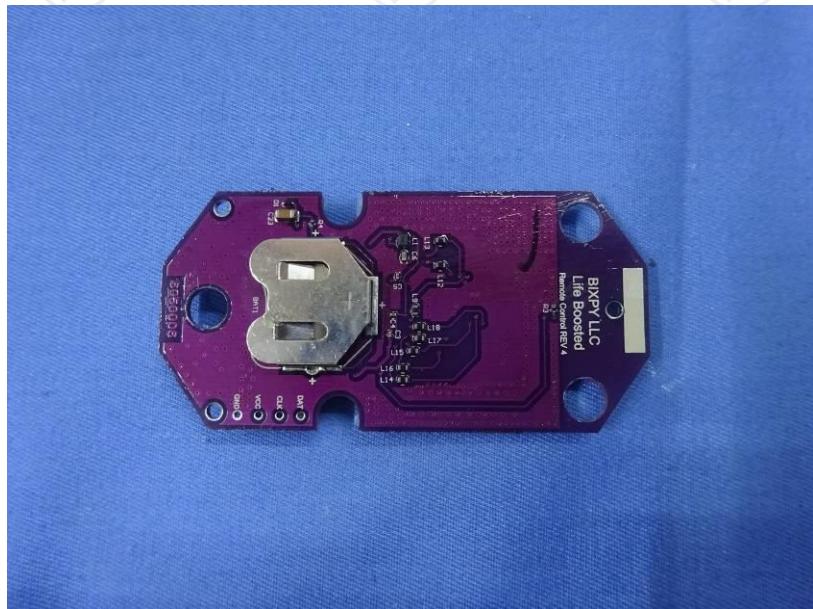






Model: BA-OBB-1003
Internal Photos





********END OF REPORT********