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MEASUREMENT REPORT Test Report

Applicant:	Shenzhen IWOWN Technology Co., Ltd
Address of Applicant:	Room B, Building C, Tongfang Information Harbor, No.11 Langshan Road, Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen IWOWN Technology Co., Ltd
Address of Manufacturer:	Room B, Building C, Tongfang Information Harbor, No.11 Langshan Road, Nanshan District, Shenzhen, China
Equipment Under Test (E	UT):
Product:	Smart bracelet
Model No.:	i6 HR, i3HR
Test Model No.:	i6 HR
Brand Name:	iWOWNfit
FCC ID:	2AKPH-I6HR
Standards:	47 CFR Part 15, Subpart C
Date of Test:	2016-11-15 to 2016-11-22
Date of Issue:	2016-11-22
Test Result :	PASS*

Accreditatio 0 **Reviewed By:** (Aaron Ma) ٨D Approved By: (Owen Zhou)

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





Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ161101312E-01	Rev.01	Initial report	2016-11-22



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Shenzhen IWOWN Technology Co., Ltd
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Manufacturer:	Shenzhen IWOWN Technology Co., Ltd
Address of Manufacturer:	Room B, Building C, Tongfang Information Harbor, No.11 Langshan Road, Nanshan District, Shenzhen, China

5.2 General Description of EUT

Product Name:	Smart bracelet
Model No.:	i6 HR, i3HR
Test Model No.:	i6 HR
Trade Mark:	iWOWNfit
Hardware Version:	V1.3
Software Version:	1.0.2.36
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Test Software of EUT:	Blue test 3
Antenna Type:	ceramic antenna
Antenna Gain:	2.0dBi
Power Supply:	Lithium ion batteries: DC3.7V 75mA

Note:

1. The fully-charged li-ion battery is used for testing.

2. Model No.: i6 HR, i3HR.

Only the model i6 HR was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance, pack and model name.



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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	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 (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



5.3 Test Environment

Operating Environment	Operating Environment:			
Temperature:	25.0 °C			
Humidity:	53 % RH			
Atmospheric Pressure:	1010mbar			
Test Mode:	Use test software (Blue test 3) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. Note: In the process of transmitting of EUT, the duty cycle >98%.			

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC Certification
PC	Lenovo	Lenovo ideapad 100-14IBY	Provided by lab	DOC

5.5 Test Location

All tests were performed at:

Shenzhen Tongce Testing Lab,

1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

5.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Tongce Testing Lab quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

	, ,	, ,	
Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±3.92dB	(1)
Radiated Emission	Above 1GHz	±4.28dB	(1)
Conducted Disturbance	0.15~30MHz	±2.56dB	(1)

Hereafter the best measurement capability for TCT laboratory is reported:

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5.7 Test Facility

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

FCC – Registration No.: 572331

Shenzhen Tongce Testing Lab 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 our files. Registration 572331

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10Other Information Requested by the Customer

None.





5.11 Equipment List

					Calibration
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Due Date
1	ESPI Test Receiver	R&S	ESVD	100008	2017/08/11
2	Spectrum Analyzer	R&S	FSEM	848597/001	2017/08/11
3	Spectrum Analyzer	Agilent	N9020A	MY49100060	2017/08/12
		EM Electronics			
		Corporation			
4	Pre-amplifier	CO.,LTD	EM30265	07032613	2017/08/11
5	Pre-amplifier	HP	8447D	2727A05017	2017/08/11
6	Loop antenna	ZHINAN	ZN30900A	12024	2017/08/13
7	Broadband Antenna	Schwarzbeck	VULB9163	340	2017/08/13
8	Horn Antenna	R&S	BBHA 9120D	631	2017/08/13
9	Horn Antenna	R&S	BBHA 9170	373	2017/08/13
10	Antenna Mast	CCS	CC-A-4M	N/A	N/A
11	Coax cable	тст	RE-low-01	N/A	2017/08/11
12	Coax cable	тст	RE-high-02	N/A	2017/08/11
13	Coax cable	тст	RE-low-02	N/A	2017/08/11
14	Coax cable	тст	RE-high-04	N/A	2017/08/11
15	Spectrum Analyzer	R&S	FSU	200054	2017/08/11
16	Antenna Connector	тст	RFC-01	N/A	2017/08/12
17	RF cable(9KHz~40GHz)	тст	RE-06	N/A	2017/08/12
18	LISN	Schwarzbeck	NSLK 8126	8126453	2017/08/16

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

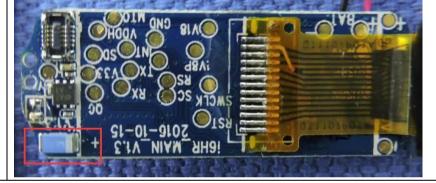
15.203 requirement:

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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is ceramic antenna and no consideration of replacement. The best case gain of the antenna is 2.0dBi.



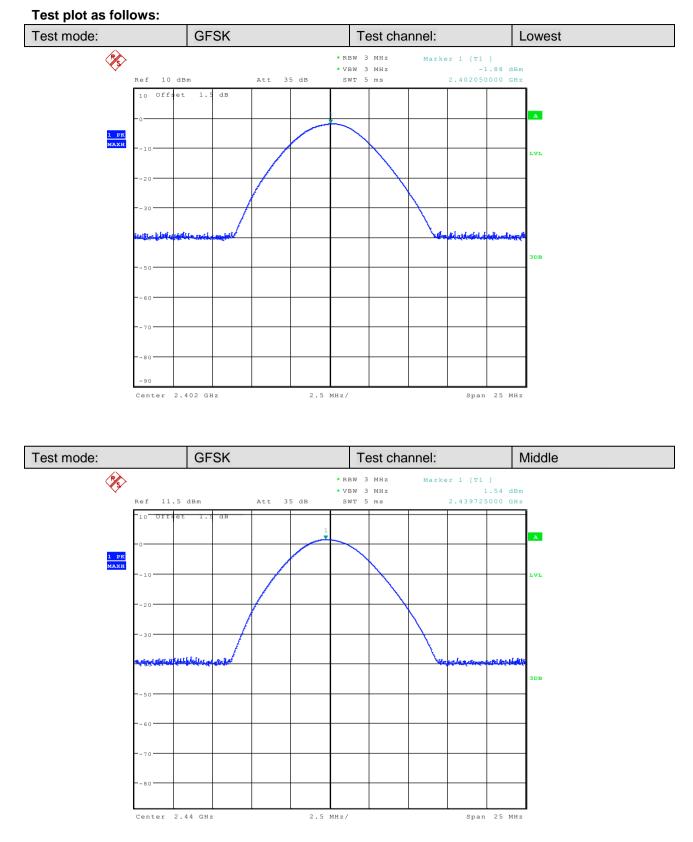
6.2 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)			
Test Method:	ANSI C63.10 2013			
Test Setup:	ANSI C63.10 2013			
	Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Limit:	30dBm			
Test Mode:	Transmitting with GFSK modulation. Refer to section 5.10 for details.			
Instruments Used:				
Test Results:	Pass			

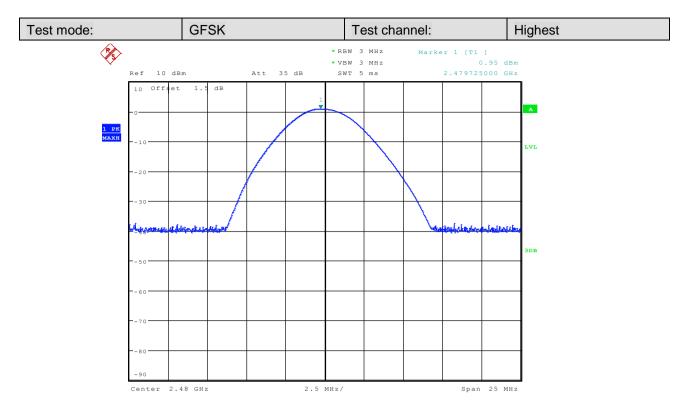
Measurement Data

GFSK mode						
Test channel	Test channel Peak Output Power (dBm) Limit (dBm)					
Lowest	-1.88	30.00	Pass			
Middle	1.54	30.00	Pass			
Highest	0.95	30.00	Pass			











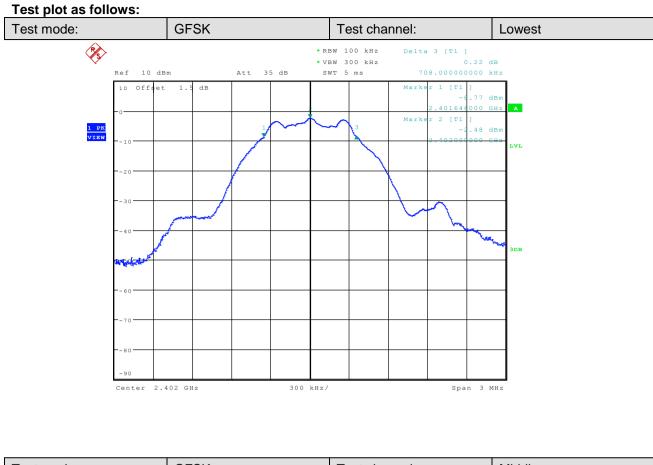
6.3 6dB Occupy Bandwidth

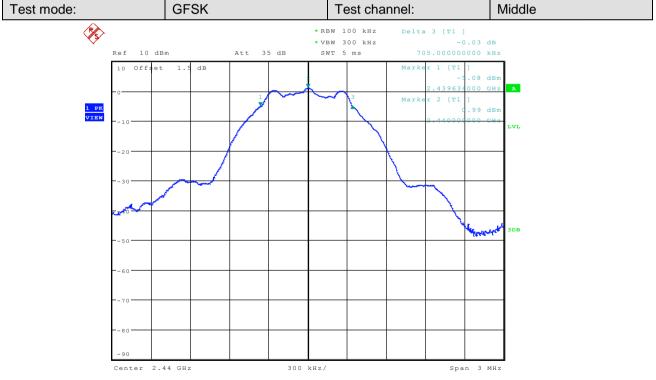
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10 2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Limit:	≥ 500 kHz			
Test Mode:	Transmitting with GFSK modulation.			
Instruments Used:	Refer to section 5.10 for details.			
Test Results:	Pass			

Measurement Data

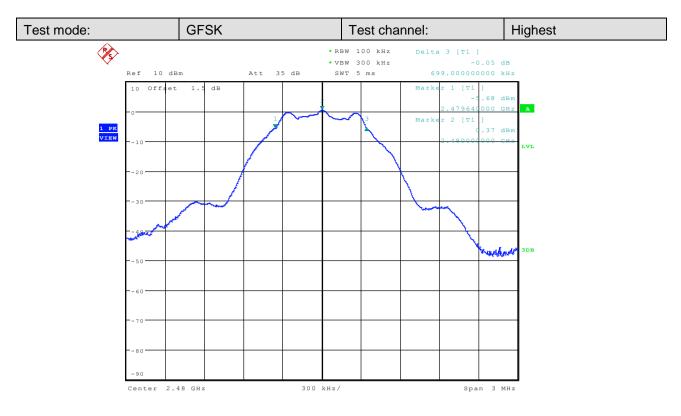
GFSK mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	0.708	≥500	Pass			
Middle	0.705	≥500	Pass			
Highest	0.699	≥500	Pass			













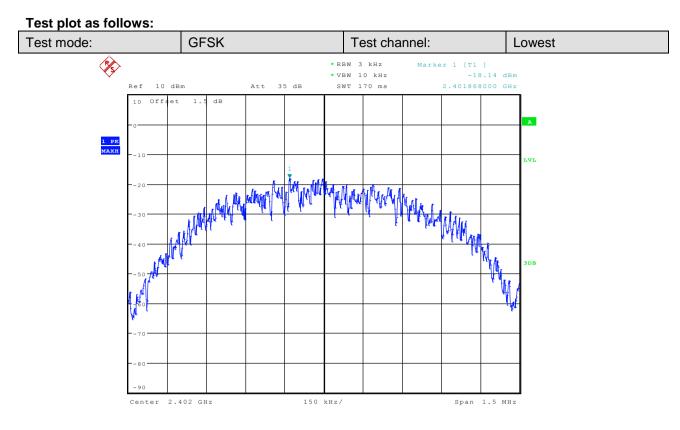
6.4 Power Spectral Density

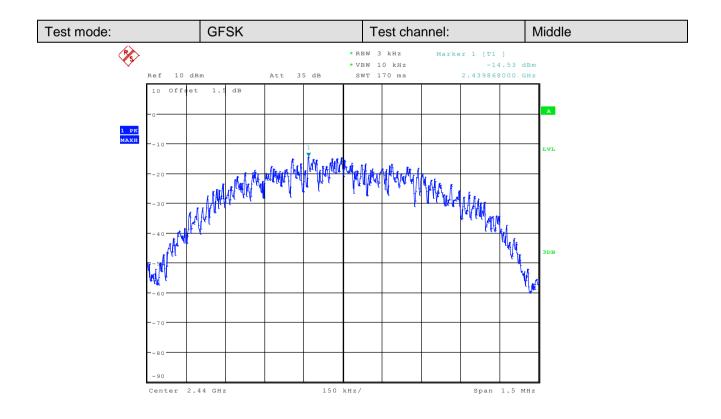
Test Requirement:	47 CFR Part 15C Section 15.247 (e)			
Test Method:	ANSI C63.10 2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Limit:	≤8.00dBm/3kHz Transmitting with GFSK modulation. Refer to section 5.10 for details. Pass			
Test Mode:				
Instruments Used:				
Test Results:				

Measurement Data

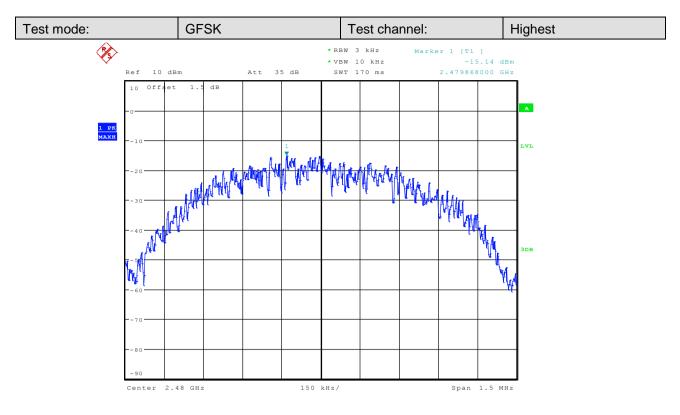
GFSK mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-18.14	≤8.00	Pass				
Middle	-14.53	≤8.00	Pass				
Highest	-15.14	≤8.00	Pass				









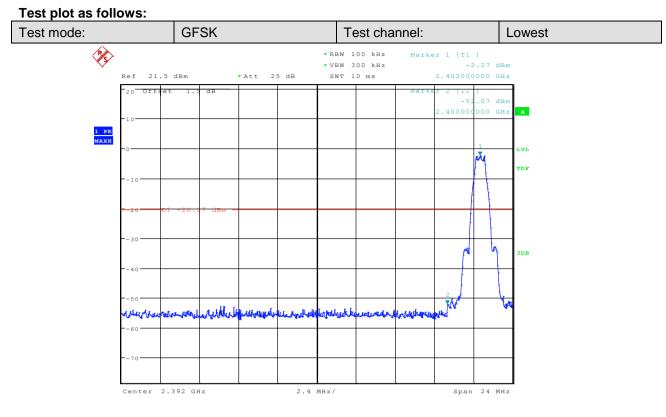


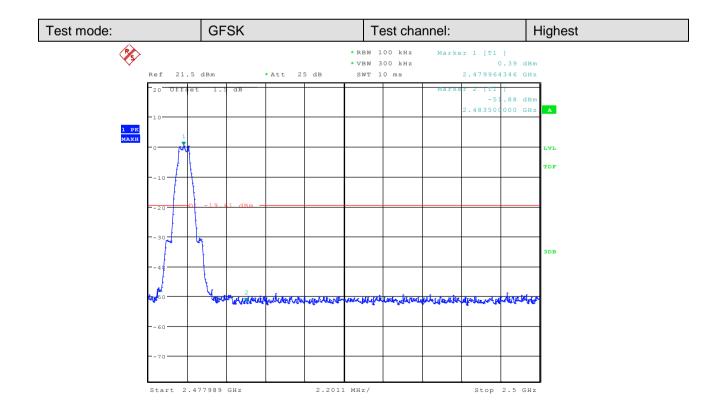


6.5 Band-edge for RF Conducted Emissions

-				
Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10 2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test Mode:	Transmitting with GFSK modulation.			
Instruments Used:	Refer to section 5.10 for details.			
Test Results:	Pass			





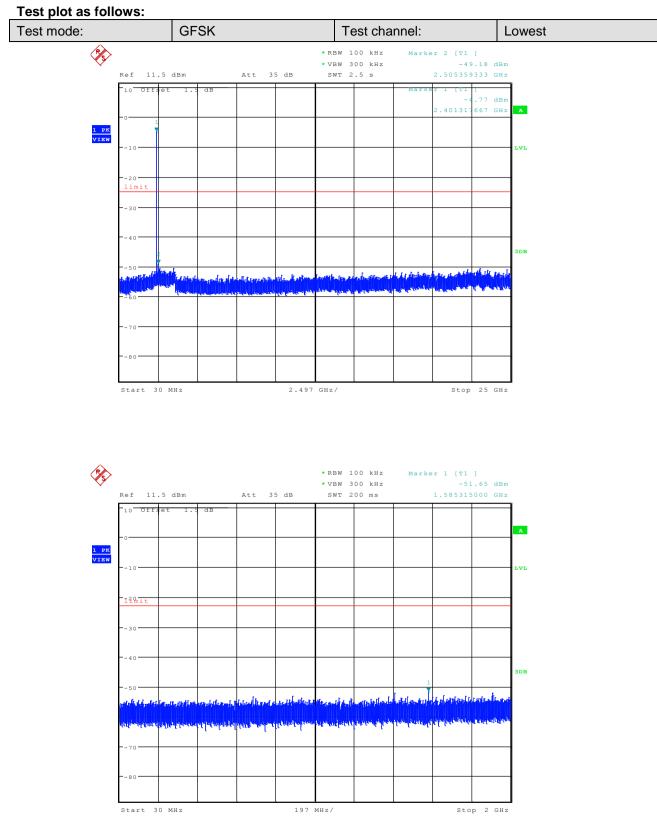




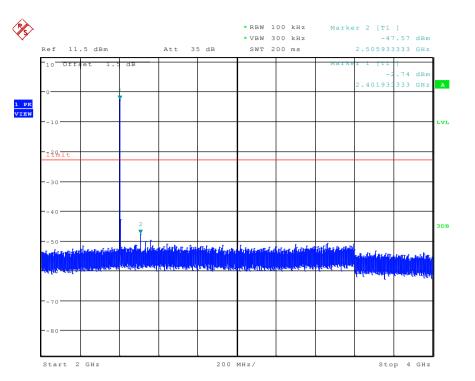
6.6 Spurious RF Conducted Emissions

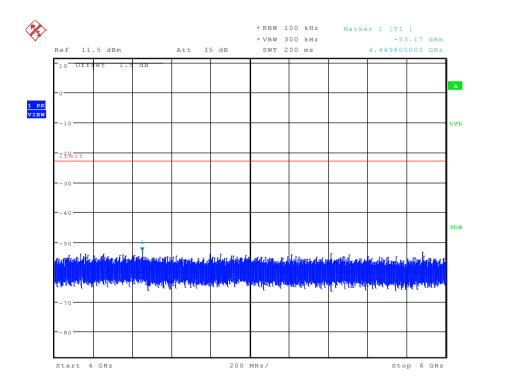
Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10 2013					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:					
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test Mode:	Transmitting with GFSK modulation.					
Instruments Used:	Refer to section 5.10 for details.					
Test Results:	Pass					



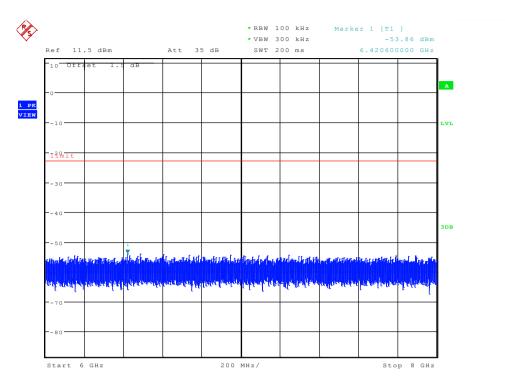


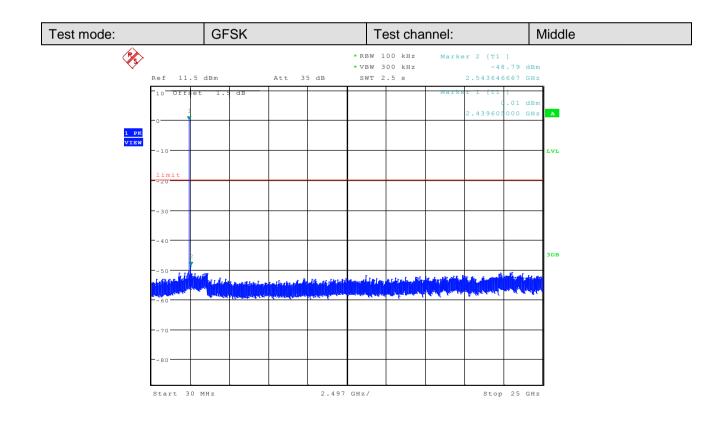






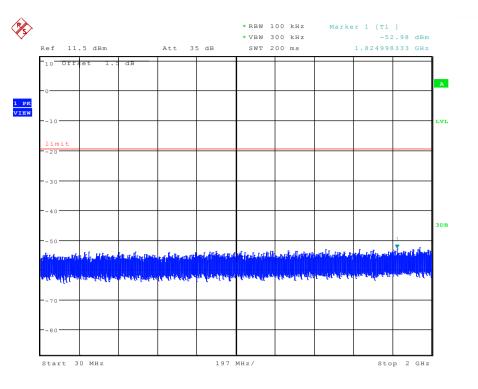


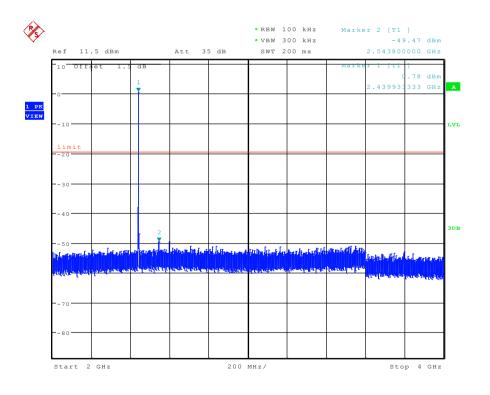






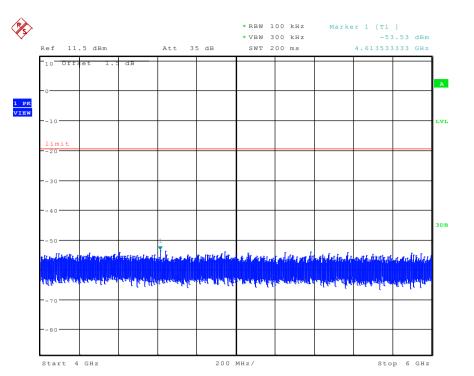


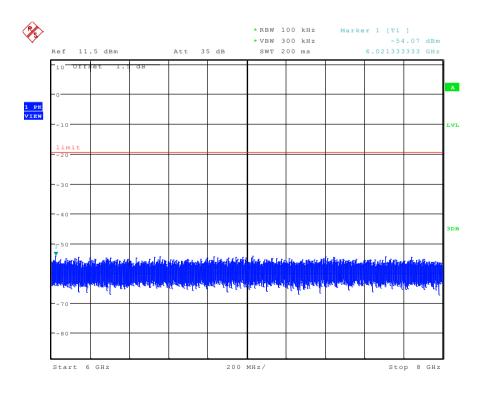




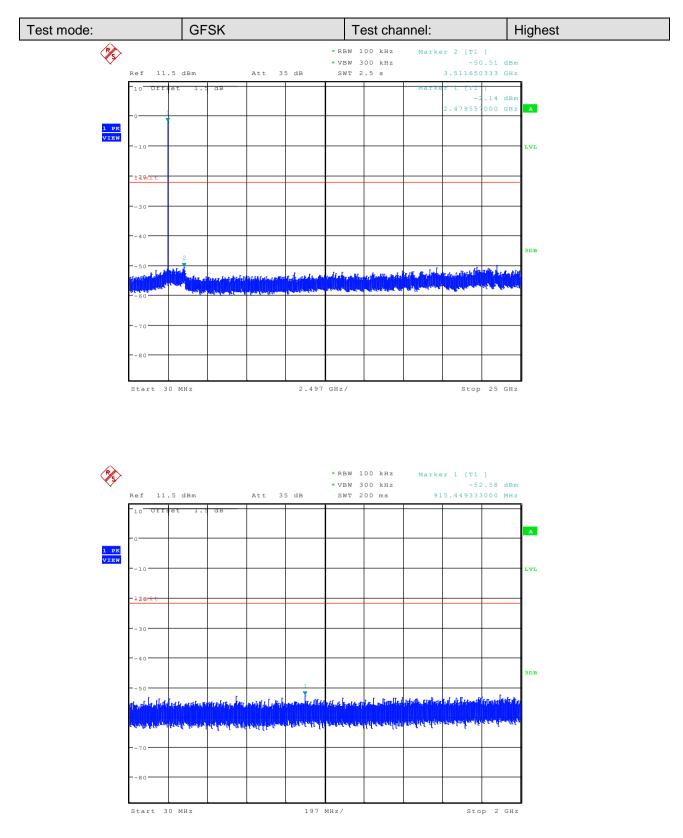




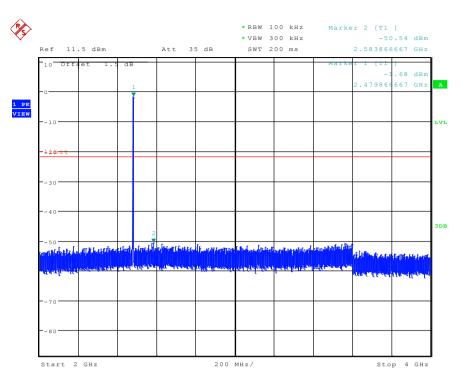


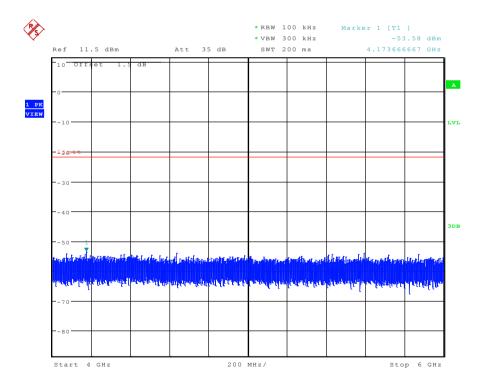




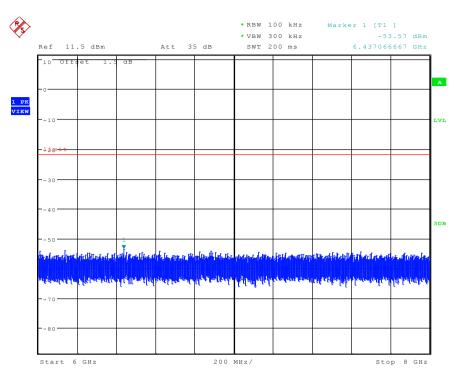












Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

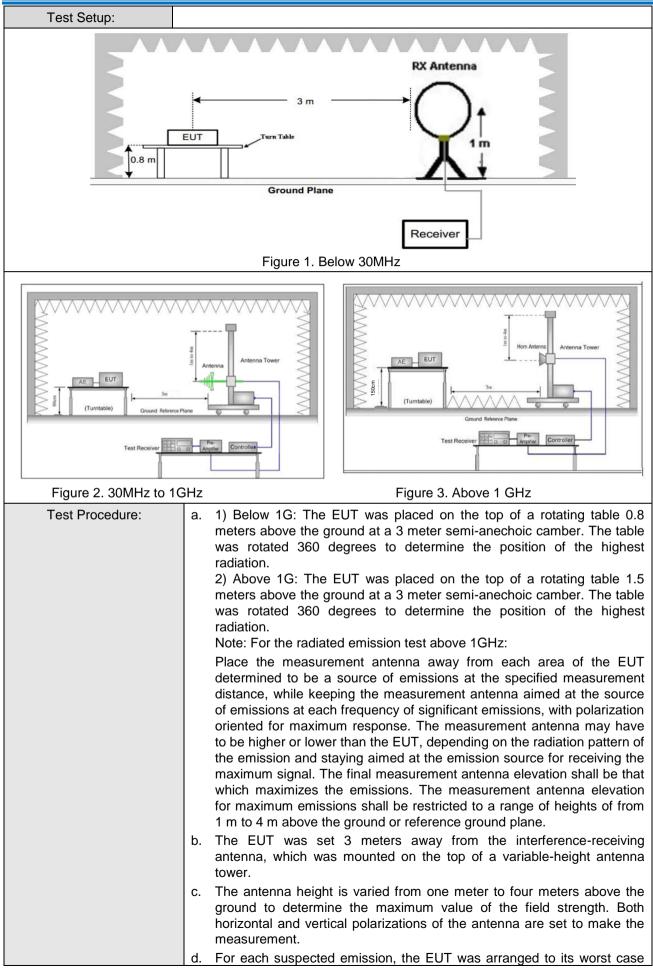


6.7 Radiated Spurious Emission

6.7.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency		Detector	RBW	r	VBW	Remark	
	0.009MHz-0.090MH	z	Peak	10kHz	z	30kHz	Peak	
	0.009MHz-0.090MH	z	Average	10kHz	z	30kHz	Average	
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z	30kHz	Quasi-peak	
	0.110MHz-0.490MH	z	Peak	10kHz	z	30kHz	Peak	
	0.110MHz-0.490MH	z	Average	10kHz	z	30kHz	Average	
	0.490MHz -30MHz		Quasi-peak	10kHz	z	30kHz	Quasi-peak	
	30MHz-1GHz		Quasi-peak	120 kH	łz	300kHz	Quasi-peak	
			Peak	1MHz	2	3MHz	Peak	
	Above 1GHz		Peak	1MHz	2	10Hz	Average	
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	F	Remark	Measureme distance (n	
	0.009MHz-0.490MHz	2	400/F(kHz)	-		-	300	_
	0.490MHz-1.705MHz	24	4000/F(kHz)	-		-	30	
	1.705MHz-30MHz		30	-		-	30	
	30MHz-88MHz		100	40.0	Qu	lasi-peak	3	
	88MHz-216MHz		150	43.5	43.5 Quasi-peak		3	
	216MHz-960MHz		200	46.0	0 Quasi-peak		3	
	960MHz-1GHz	960MHz-1GHz 500		54.0	Qu	iasi-peak	3	
	Above 1GHz	54.0	A	verage	3	_		
	Above 1GHz50054.0Average3Note: 15.35(b), 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. This peak limit applies to the total peak emission level radiated by the device.							

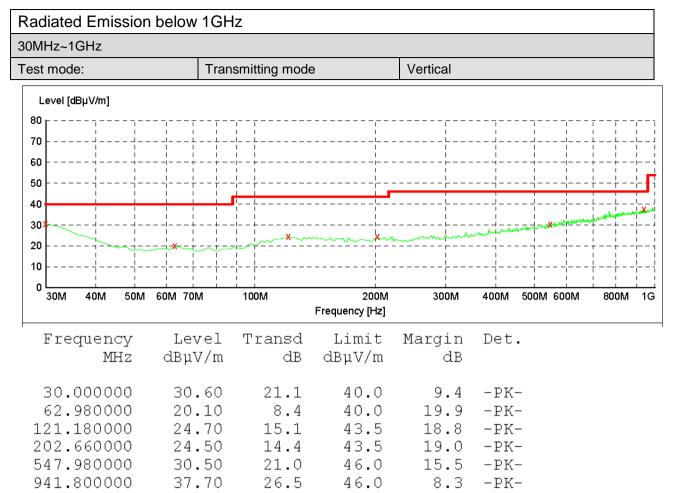






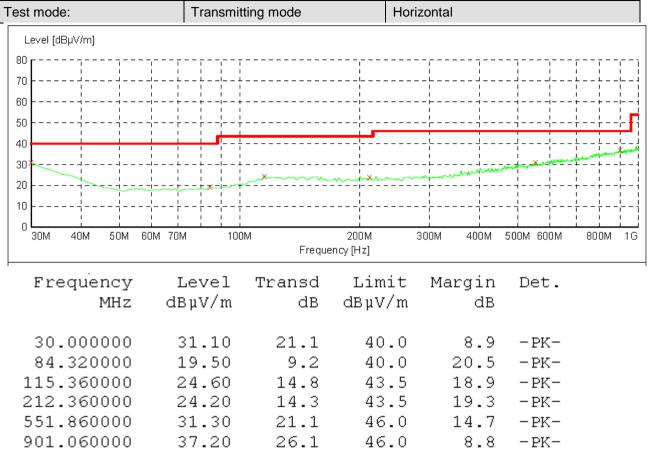
	 and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. 			
Exploratory Test	Transmitting with GFSK modulation.			
Mode:	Transmitting mode.			
Final Test Mode:	Transmitting with GFSK modulation.			
	Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case.			
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.			
	Only the worst case is recorded in the report.			
Instruments Used:	Refer to section 5.10 for details.			
Test Results:	Pass			







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Transmitter Emission above 1GHz

	Worse case mode:	GFSK	Test cha	nnel:	Lowest	
I	Moto		Emission			

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4804	49.62	-5.18	44.44	74	-29.56	peak	н
4804	37.17	-5.18	31.99	54	-22.01	AVG	н
7206	49.53	-6.45	43.08	74	-30.92	peak	н
7206	35.99	-6.45	29.54	54	-24.46	AVG	Н
4804	48.48	-5.18	43.30	74	-30.70	peak	V
4804	37.84	-5.18	32.66	54	-21.34	AVG	V
7206	49.65	-6.45	43.20	74	-30.80	peak	V
7206	35.98	-6.45	29.53	54	-24.47	AVG	V

Test channel:

channel: Middle

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4880	49.57	-5.19	44.38	74	-29.62	peak	Н
4880	37.14	-5.19	31.95	54	-22.05	AVG	Н
7320	48.98	-6.47	42.51	74	-31.49	peak	Н
7320	35.39	-6.47	28.92	54	-25.08	AVG	Н
4880	48.84	-5.19	43.65	74	-30.35	peak	V
4880	37.61	-5.19	32.42	54	-21.58	AVG	V
7320	49.95	-6.47	43.48	74	-30.52	peak	V
7320	36.84	-6.47	30.37	54	-23.63	AVG	V



							-
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4960	50.05	-5.2	44.85	74	-29.15	peak	Н
4960	37.24	-5.2	32.04	54	-21.96	AVG	Н
7440	50.92	-6.47	44.45	74	-29.55	peak	Н
7440	37.07	-6.47	30.60	54	-23.40	AVG	Н
4960	49.59	-5.2	44.39	74	-29.61	peak	V
4960	37.23	-5.2	32.03	54	-21.97	AVG	V
7440	51.12	-6.47	44.65	74	-29.35	peak	V
7440	37.53	-6.47	31.06	54	-22.94	AVG	V

 Worse case mode:
 GFSK
 Test channel:
 Highest

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



6.8 Restricted bands around fundamental frequency

6.8 Restricted ban	as around fundame	intal inequency						
Test Requirement:	Test Requirement: 47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chamber	·)					
Limit:	Frequency	Limit (dBuV/m @3m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak Value					
	88MHz-216MHz	43.5	Quasi-peak Value					
	216MHz-960MHz	46.0	Quasi-peak Value					
	960MHz-1GHz	54.0	Quasi-peak Value					
	Above 1GHz	54.0	Average Value					
		74.0	Peak Value					
T (0)								
Test Setup:								
Figure 1. 30MH: Test Procedure:		Figure 2. Above EUT was placed on the to						
 a. 1) Below 1G: The EUT was placed on the top of a rotating table meters above the ground at a 3 meter semi-anechoic camber. table was rotated 360 degrees to determine the position of the high radiation. 2) At 1G: The EUT was placed on the top of a rotating table 1.5 me above the ground at a 3 meter semi-anechoic camber. The table rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the 1 determined to be a source of emissions at the specified measurem distance, while keeping the measurement antenna aimed at the sou of emissions at each frequency of significant emissions, polarization oriented for maximum response. The measurem antenna may have to be higher or lower than the EUT, depending the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurem antenna elevation shall be that which maximizes the emissions. measurement antenna elevation for maximum emissions shall restricted to a range of heights of from 1 m to 4 m above the ground reference-receiving antenna, which was mounted on the top variable-height antenna tower. b. The antenna height is varied from one meter to four meters above ground to determine the maximum value of the field strength. Environtal and vertical polarizations of the antenna are set to make measurement. c. For each suspected emission, the EUT was arranged to its worst of the antenna measurement. 								



	 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. d. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. e. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel f. Test the EUT in the lowest channel , the Highest channel g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. h. Repeat above procedures until all frequencies measured was complete. 				
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.				
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case. Only the worst case is recorded in the report.				
Instruments Used:	Refer to section 5.10 for details.				
Test Results:	Pass				

Worse case mode: GFSK	Test channel:	Lowest	Remark:	Vertical
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Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2390	47.15	-4.36	42.79	74	-31.21	peak
2390	36.60	-4.36	32.24	54	-21.76	AVG

Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Horizontal
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Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2390	46.34	-4.36	41.98	74	-32.02	peak
2390	34.61	-4.36	30.25	54	-23.75	AVG





Worse case mode:	GESK	Test channel:	Highest	Remark:	Vertical
		rest onarmor.	riignost	Roman.	vontioar

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	54.37	-4.22	50.15	74	-23.85	peak
2483.5	44.73	-4.22	40.51	54	-13.49	AVG

Worse case mode: GFSK	Test channel:	Highest	Remark:	Horizontal
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Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	54.15	-4.22	49.93	74	-24.07	peak
2483.5	45.49	-4.22	41.27	54	-12.73	AVG

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

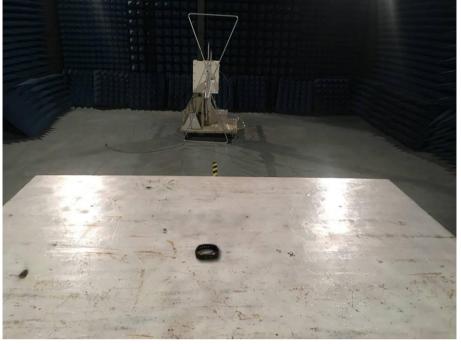
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



7 Photographs - EUT Test Setup

7.1 Radiated Spurious Emission

Below 1GHz:



Above 1GHz:







9

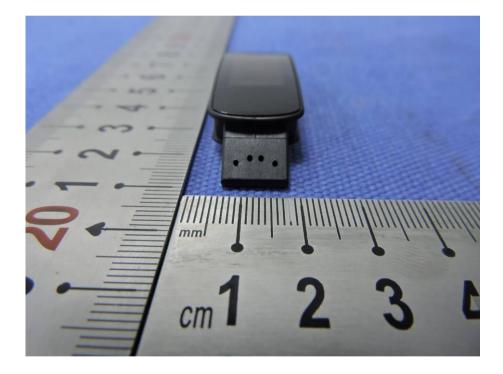
8 Photographs - EUT Constructional Details





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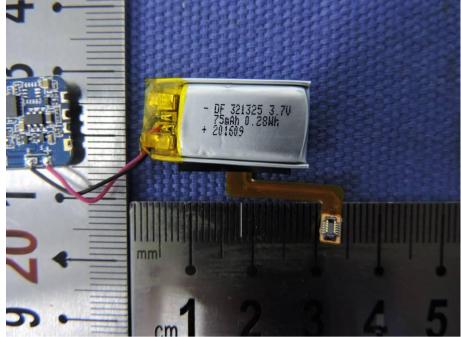


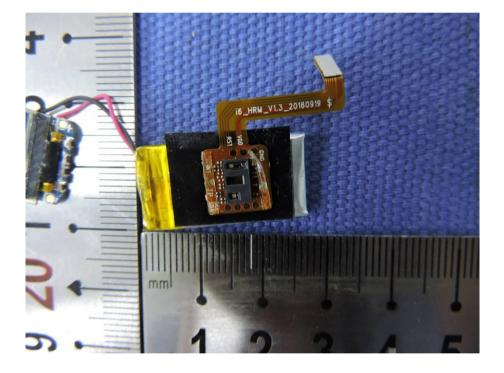


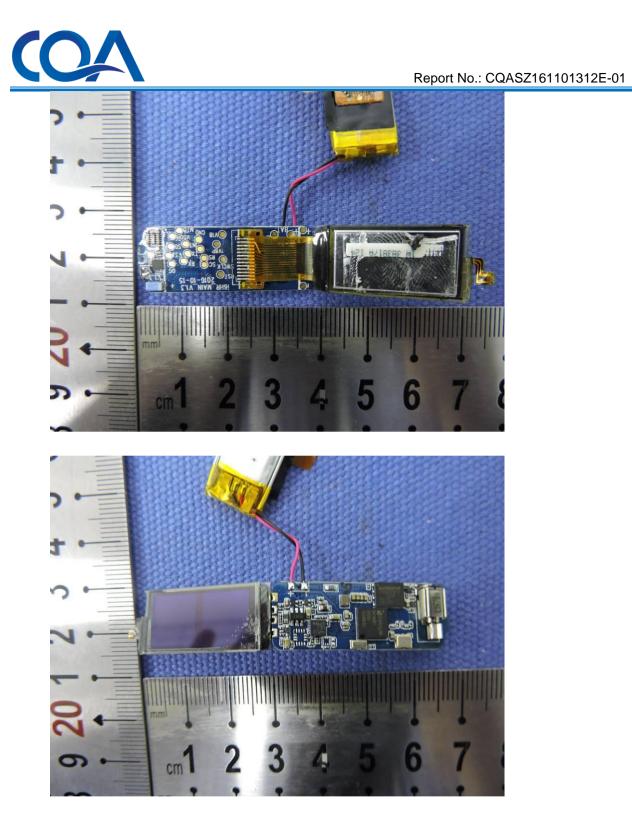




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END OF THE REPORT