



Report No.: File reference No.:	FCC 1901036 2019-01-07
Applicant:	Technaxx Deutschland GmbH & Co. KG
Product:	Bluetooth smartwatch
Model No.:	TG-SW2HR
Trademark:	TrendGeek®
Test Standards:	FCC Part 15.247
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated:

January 07,2019

Results appearing herein relate only to the sample tested The technical r eports is issued err ors and o missions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The 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 our files. Registration No.: 744189.

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES. Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant:	Technaxx Deutschland GmbH & Co. KG
Address:	Kruppstrasse 105, 60388 Frankfurt am Main, Germany
Telephone:	
Fax:	
Telephone:	

1.3 Description of EUT

Product:	Bluetooth smartwatch				
Manufacturer:	Maxtop Digital Technology Co., Ltd				
Address:	B418, Minyou Technology Park, Baoyuan Rd., Xixiang, Bao'an District,				
	Shenzhen, China				
Brand Name:	TrendGeek®				
Additional Brand Name:	N/A				
Model Number:	TG-SW2HR				
Additional Model Number	er: N/A				
Type of Modulation	GFSK (Bluetooth BLE)				
Frequency range	2402-2480MHz				
Frequency Selection	By software				
Channel Number	40				

- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration 2018-12-28 to 2019-01-07
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB

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Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

The sample tested by

Terry (ang

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2018-06-22	2019-06-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2018-06-22	2019-06-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2018-06-22	2019-06-21
Ultra Broadband ANT	R&S	HL562	100157	2018-06-18	2019-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2018-06-22	2019-06-21
Loop Antenna	EMCO	6507	00078608	2018-06-25	2019-06-24
Spectrum	R&S	FSIQ26	100292	2018-06-22	2019-06-21
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2018-06-25	2019-06-24
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-08-24	2019-08-23
Power meter	Anritsu	ML2487A	6K00003613	2018-08-22	2019-08-21
Power sensor	Anritsu	MA2491A	32263	2018-08-22	2019-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2019-07-03
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2018-06-22	2019-06-21
EMI Test Receiver	RS	ESH3	860904/006	2018-06-22	2019-06-21
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2018-06-22	2019-06-21
Spectrum	HP/Agilent	E4407B	MY50441392	2018-03-27	2019-03-26
Spectrum	RS	FSP	1164.4391.38	2018-01-20	2019-01-19
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2018-05-24	2019-05-23
RF Cable	Zhengdi	7m		2018-03-17	2019-03-16
RF Switch	EM	EMSW18	060391	2018-06-22	2019-06-21
Pre-Amplifier	Schwarebeck	BBV9743	#218	2018-06-22	2019-06-21
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2018-08-05	2019-08-04

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3.0 Technical Details

3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

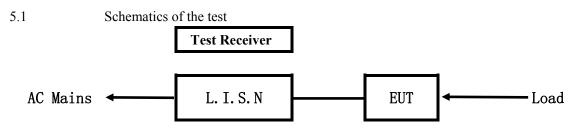
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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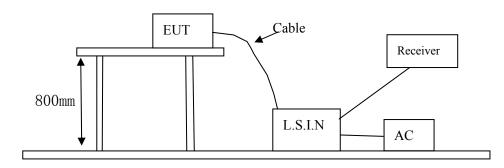
5. Power Line Conducted Emission Test



EUT: Equipment Under Test

5.2 Test Method and test Procedure
The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz
to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of
ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A.	EUT

Device	Manufacturer	Model	FCC ID	
Bluetooth	Maytan Digital Tashnalogy Co. Itd	TG-SW2HR	2ARZ3TG-SW2HR	
smartwatch	Maxtop Digital Technology Co., Ltd	1 0- 5 ₩2ПК		

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B. Internal Device

Device	Manufacturer	Model Rating		

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply AoHai		A68-50200	Input:100-240VV~, 50/60Hz, 0.35A;
			Output:DC5V,2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency (MHz)		Class A Lim	its (dB µ V)	Class B Limits (dB µ V)		
		Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
	$0.15~\sim~0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
	$0.50~\sim~5.00$	73.0	60.0	56.0	46.0	
	$5.00~\sim~30.00$	73.0	60.0	60.0	50.0	

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

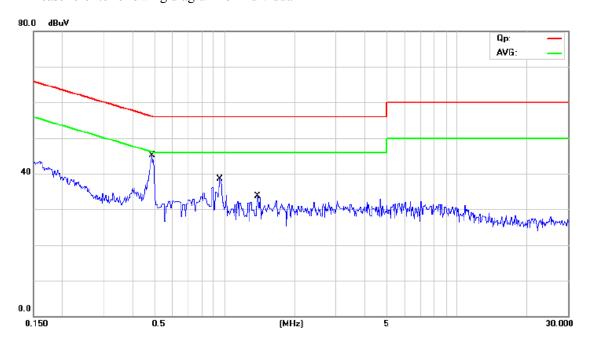
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz) EUT Operating Environment Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa EUT set Condition: Keep Bluetooth Transmitting Equipment Level: Class B Results: PASS Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4865	31.00	10.26	41.26	56.23	-14.97	QP	
2		0.4865	18.40	10.26	28.66	46.23	-17.57	AVG	
3		0.9590	19.50	10.85	30.35	56.00	-25.65	QP	
4		0.9590	-0.10	10.85	10.75	46.00	-35.25	AVG	
5		1.3853	14.50	10.89	25.39	56.00	-30.61	QP	
6		1.3853	1.20	10.89	12.09	46.00	-33.91	AVG	

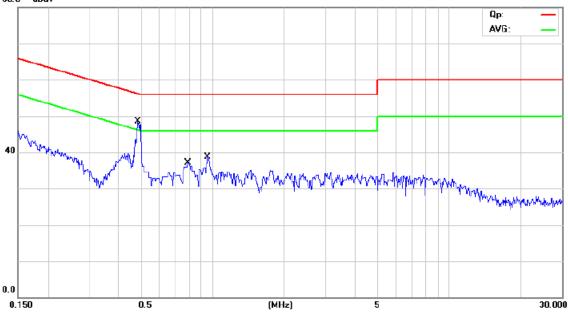
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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) EUT Operating Environment Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa EUT set Condition: Keep Bluetooth Transmitting Equipment Level: Class B Results: Pass Please refer to following diagram for individual

80.0 dBuV



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.4838	34.90	10.26	45.16	56.27	-11.11	QP	
2 *	0.4838	25.30	10.26	35.56	46.27	-10.71	AVG	
3	0.7858	21.50	10.63	32.13	56.00	-23.87	QP	
4	0.7858	10.70	10.63	21.33	46.00	-24.67	AVG	
5	0.9592	14.70	10.85	25.55	56.00	-30.45	QP	
6	0.9592	2.80	10.85	13.65	46.00	-32.35	AVG	

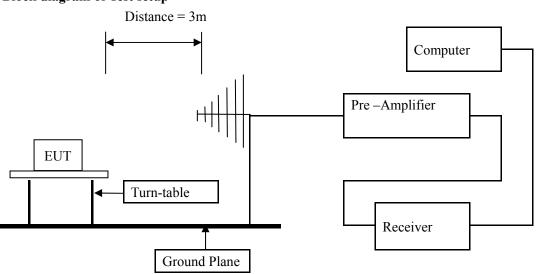
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6 Radated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.



Block diagram of Test setup

- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band	are complied to limit on	Paragraph 15 200 and 15 100
riequencies in restricted Danu	are complied to milit on	1 al agi apil 15.209 allu 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handhold device. 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.

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Pass

Results:

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Test Figure:



FCC_FCC Part 15B Class B 30MHz-1GHz 70 60 50 40 level (dBuV/m) 30 with the burger of the day M1 M 20 MANA A REAL PROPERTY AND A REAL 10 0.0-30 50 100 200 400 600 800 1000 Frequency (MHz)

No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	47.456	19.14	-11.38	40.0	-20.86	Peak	139.00	100	н	Pass
2	98.125	16.55	-13.73	43.5	-26.95	Peak	289.00	100	н	Pass
3	200.677	16.90	-13.44	43.5	-26.60	Peak	242.00	100	н	Pass

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Test Figure: FCC_FCC Part 15B Class B 30MHz-1GHz 70 60 50 40 level (dBuV/m) 30 M1 M2 М3 20 10 0.0-50 100 200 400 600 800 1000 30 Frequ ncy (MHz)

No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	50.122	18.84	-11.38	40.0	-21.16	Peak	360.00	200	V	Pass
2	71.457	16.98	-16.30	40.0	-23.02	Peak	360.00	200	V	Pass
3	113.399	16.67	-14.12	43.5	-26.83	Peak	360.00	200	V	Pass

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Operation Mode: Transmitting under Low Channel (2402MHz)

Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4804		H/V	74(Peak)/ 54(AV)
7206		H/V	74(P ak)/54(AV)
9608		H/V	74(Peak)/ 54(AV)
12010		H/V	74(Peak)/ 54(AV)
14412		H/V	74(Peak)/ 54(AV)
16814		H/V	74(Peak)/ 54(AV)
19216		H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit 2. Remark "---" means that the emissions level is too low to be measured

Operation Mode.	Transmitting under windule	Channel (2440WIIIZ)	
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4880		H/V	74(Peak)/ 54(AV)
7320		H/V	74(Peak)/ 54(AV)
9760		H/V	74(Peak)/ 54(AV)
12200		H/V	74(Peak)/ 54(AV)
14640		H/V	74(Peak)/ 54(AV)
17080		H/V	74(Peak)/ 54(AV)
19520		H/V	74(Peak)/ 54(AV)
21960		H/V	74(Peak)/ 54(AV)
24400		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under Middle Channel (2440MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel (2480MHz)

_			
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4960		H/V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

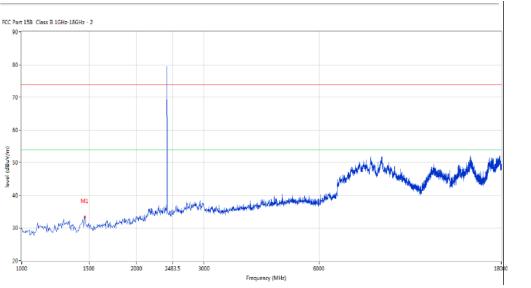
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit 2. Remark "---" means that the emissions level is too low to be measured

The report refers only to the sample tested and does not apply to the bulk.

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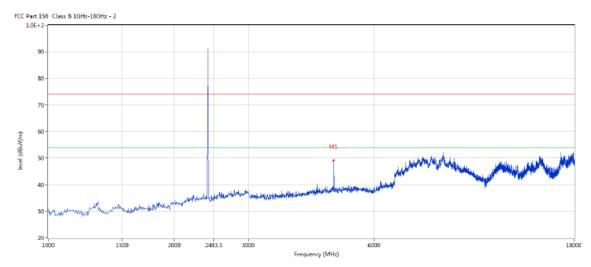


Please refer to the following test plots for details: Low Channel: Vertical



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	1463.134	33.32	-8.16	74.0	-40.68	Peak	175.00	100	V	Pass

Low Channel : Horizontal



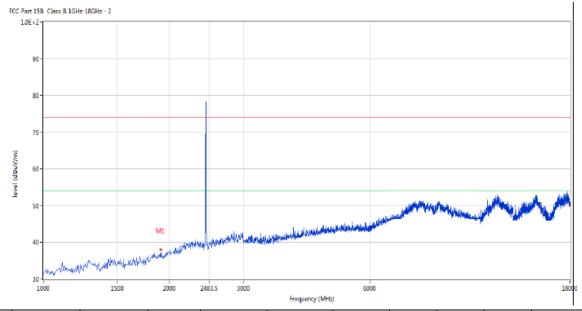
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4802.799	46.52	3.12	74.0	-27.48	Peak	360.00	100	Н	Pass

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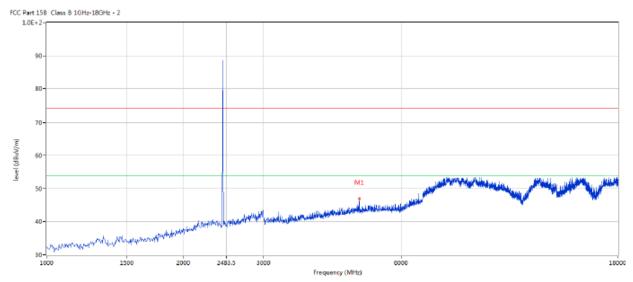






No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	1905.024	38.13	-5.88	74.0	-35.87	Peak	101.00	100	V	Pass

Middle Channel : Horizontal



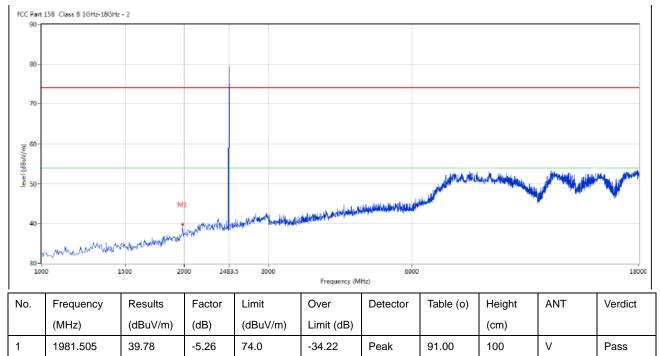
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4879.280	46.98	3.20	74.0	-27.02	Peak	174.00	100	Н	Pass

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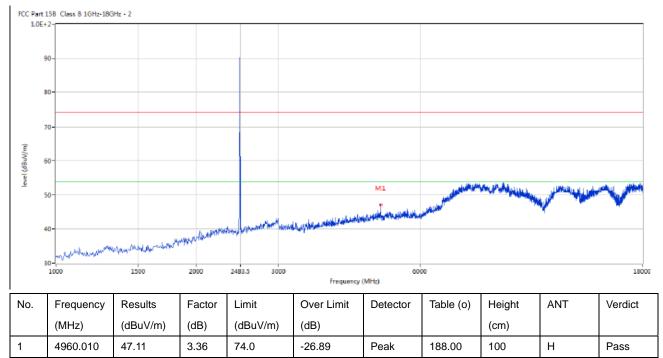
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High Channel : Vertical



High Channel : Horizontal



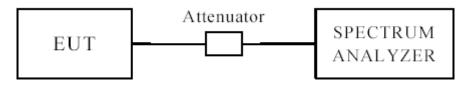
Note: for the radiated emissions above 18G, it is the floor noise.

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7.0 6dB Bandwidth Measurement 7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

The report refers only to the sample tested and does not apply to the bulk.

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6dB BW

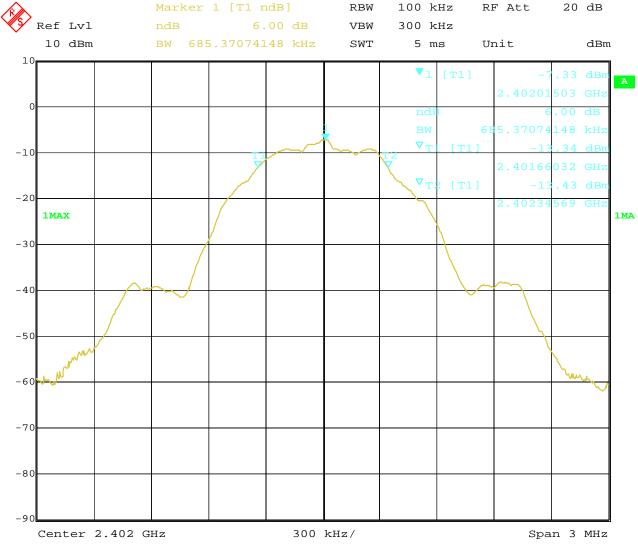
EUT	EUT Bluetooth s		smartwatch	Model		TG-SW2HR		
Mode		Keep Tr	ansmitting	Input Vo	oltage		DC3.7V	
Temperat	ure	24 d	leg. C,	Humi	Humidity 56% RH		56% RH	
Channel	Ch	annel Frequency (MHz)	6 dB Bandwidth (kHz)		Minimum Limit (MHz)		Pass/ Fail	
Low		2402 685			0.5		Pass	
Middle		2440 685		685 0.5 Pass		Pass		
High		2480	679		0.5		Pass	

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Test Figure: **1. Condition: Low Channel**



Date: 2.JAN.2019 15:08:31

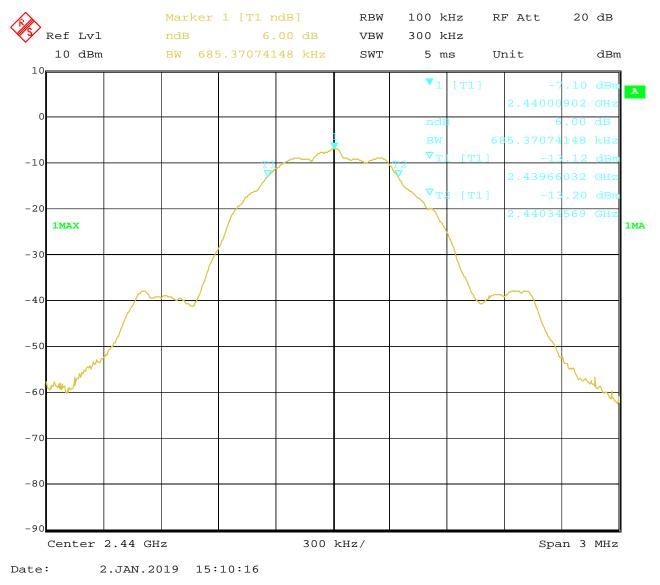
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2. Condition: Middle Channel



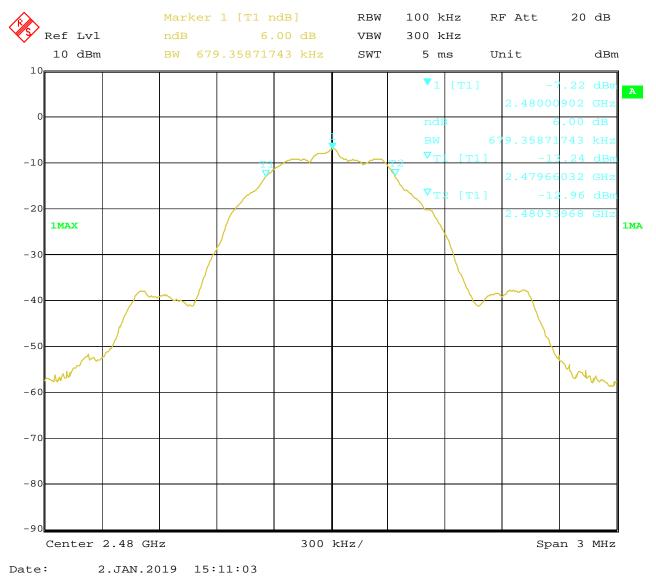
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3. High Channel

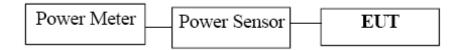


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8. Maximum Output Power 8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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8.4Test Results

EUT	Bluetoot	h smartwatch	Model	TG-SW2HR		
Mode	Кеер Т	ransmitting	Input Voltage	DC3.7V		
Temperatu	re 24	deg. C,	Humidity	56% RH		
Channel	Channel Frequency	Max. Power Output (dBm)		Peak Power Limit	Pass/ Fail	
Chamler	(MHz)	Pea	ık	(dBm)		
Low	2402	-7.0)8	30	Pass	
Middle	2440	-6.7	-6.75		Pass	
High	2480	-6.4	-6.49		Pass	

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

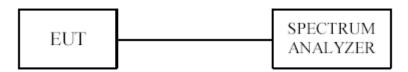
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

- 2. Set the RBW = 10 kHz.
- 3. Set the VBW \ge 30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be ≤ 8 dBm.

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9.4Test Result

EUT		Bluetooth smartwatch			Model	TG	TG-SW2HR		
Mode		Keep Transmitting			Input Voltage	Ι	DC3.7V		
Temperature		2	24 deg. C,		Humidity	5	56% RH		
Channel	Peak Power Reading (dBm)		Cable Loss (dB)		al Power Spectral Density (dBm)	Maximum Limit (dBm)	Pass/ Fail		
Low	-1	6.76	0.2		-16.56	8	Pass		
Middle	-1	6.50	0.2		-16.30	8	Pass		
High	-1	6.66	0.2		-16.46	8	Pass		

Note: The result basic equation calculation as follow:

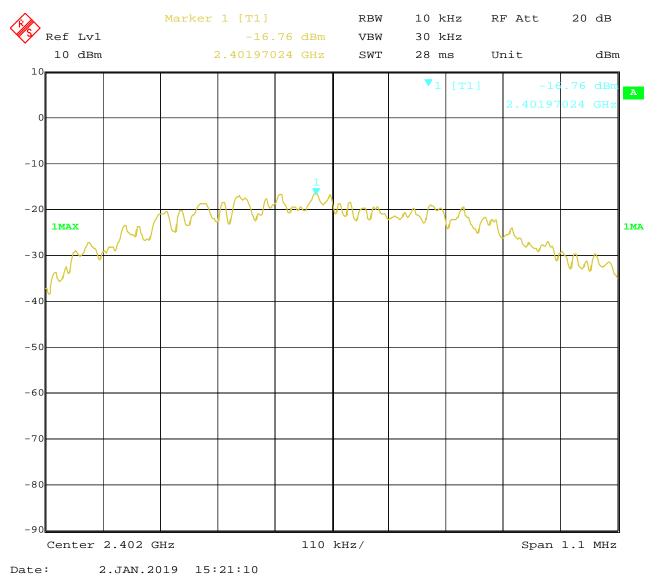
Peak Power Output = Peak Power Reading + Cable loss

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Test Figure: **1. Condition: Low Channel**

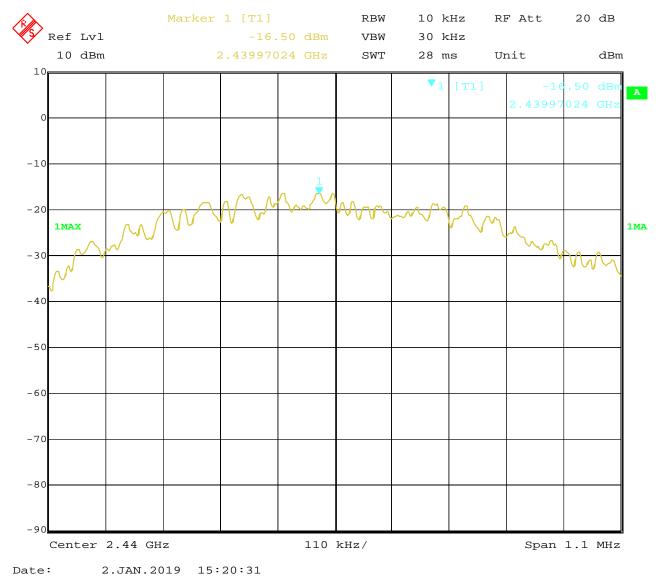


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2. Condition: Middle Channel



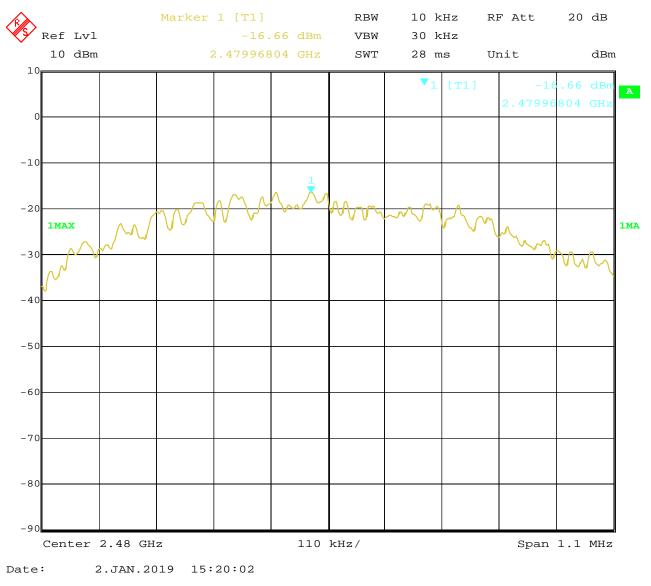
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3. High Channel

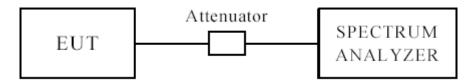


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10 Out of Band Measurement 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule. 2. This is a handhold device. 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.

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10.4 Band-edge Measurement

EUT	Bluetooth smartwatch	Model	TG-SW2HR		
Mode	Keep Transmitting	Input Voltage	DC3.7V		
Temperature	24 deg. C,	Humidity	56% RH		
Test Result:	Pass	Detector	РК		
est Figure:					
	Marker 3 [T1]	RBW 100	kHz RF Att 20 dB		
Ref Lvl	-65.16	dBm VBW 300	kHz		
10 dBm	2.3900000	GHz SWT 15	ms Unit dBm		
10		▼	3 [T1] -65.16 dBm		
			2.39000000 GHz		
0					
			2.40 <u>2</u> 06413 GHz		
-10			2 [T1] Å64.36 dBm		
			2.40000000 GHz		
-20			11		
THAN					
-30					
-40					
FO					
-50					
-60		3			
Jane marken	h.m.m.m.m.	man allower an and the	alphalamburk My my me		
-70					
-80					
-90					
Start 2.35	GHZ	6 MHz/	Stop 2.41 GHz		

Note: The Max. FS in Restrict Band are measured in conventional method.

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10.4 Band-edge Measurement

EUT		Bluetoc	ratch		Model		TG-SW2HR				
Mode		Keeping Transmitting 24 deg. C, Pass				put Volta	ge	DC3.7V			
Temperature						Humidity	r	56% RH			
Test Result:						Detector		РК			
est Figure:											
k A		Marker	2 [T1]		RBW	100	kHz	RF Att	20 dB		
🚺 Ref Lvl				78 dBm	VBW	300					
10 dBm		2	2.483500	00 GHz	SWT	6.5	ms	Unit	dBr	n	
10						▼2	[T1]	-6	5.78 dBm	A	
								2.4835	0000 GHz		
0						▼ 1	[T1]	-	7.31 dBn	n	
	5	7						2.4800	1002 GHz	:	
-10	(
-20										1MA	
-30	Λ	6									
-40											
-50											
-60 Whith M	N	la	W. Mura	uuum	man	mm	here	Muniana	mman	1	
-70											
-80											
-90	475 OT			2 5	MHz/			Ob arr	2.5 GHz		
	475 GH		13:48	4.5				Brob	2.J GH2		

Note: The Max. FS in Restrict Band are measured in conventional method.

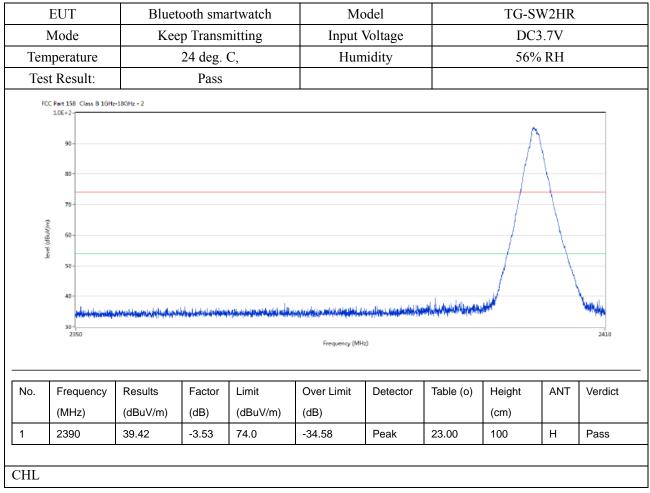
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10.4 Restrict Band Measurement



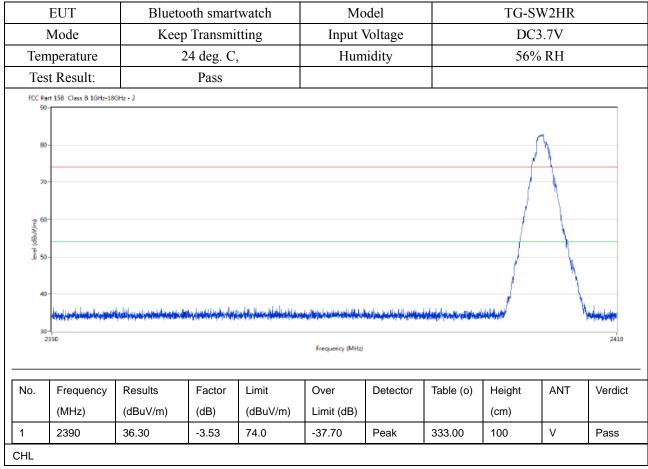
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10.4	Restrict Band Measurement
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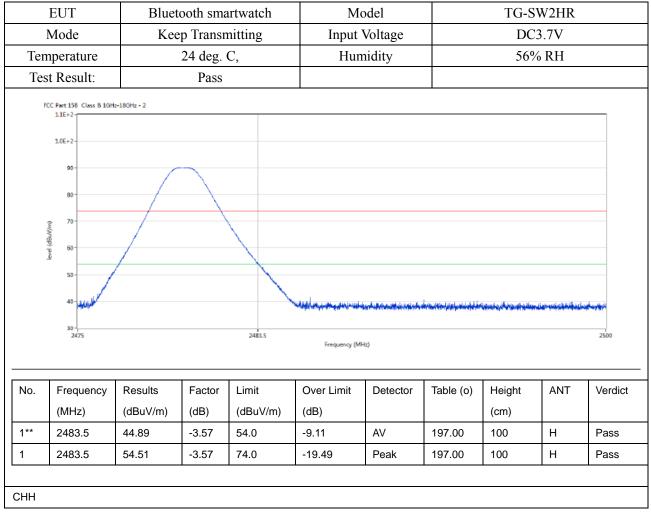
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10.4 Restrict Band Measurement



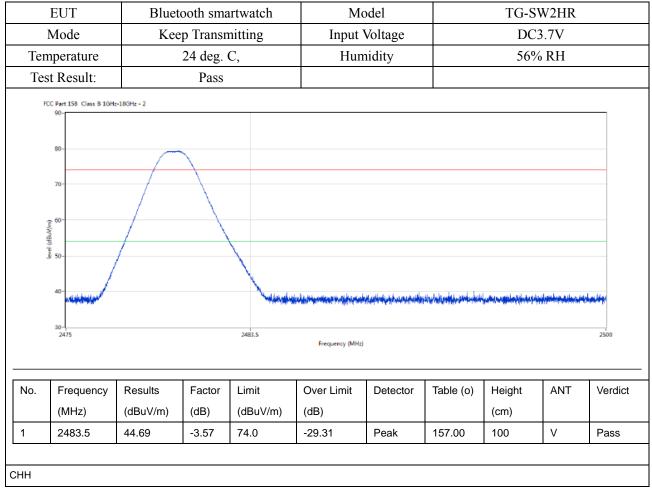
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10.4 Restrict Band Measurement



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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integral antenna used. The maximum Gain of the antennas is 0.6dBi.

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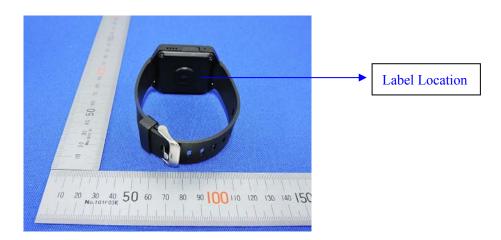
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12.0 FCC ID Label

FCC ID: 2ARZ3TG-SW2HR

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup:

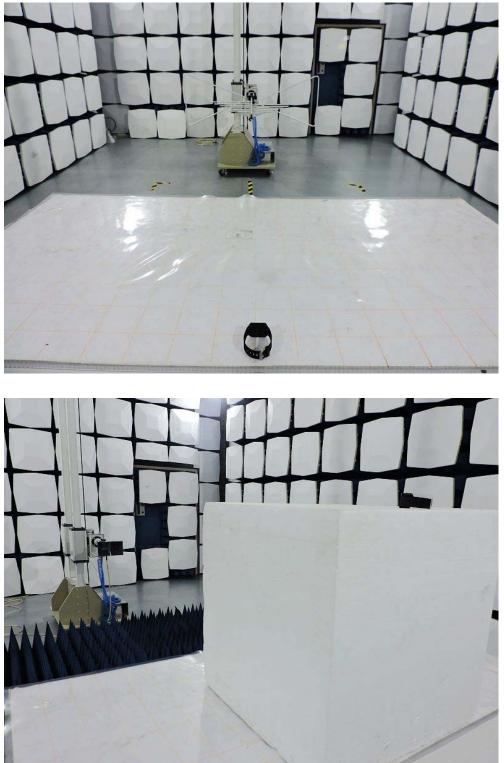


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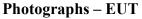
Radiated Emission Test Setup:



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Outside View



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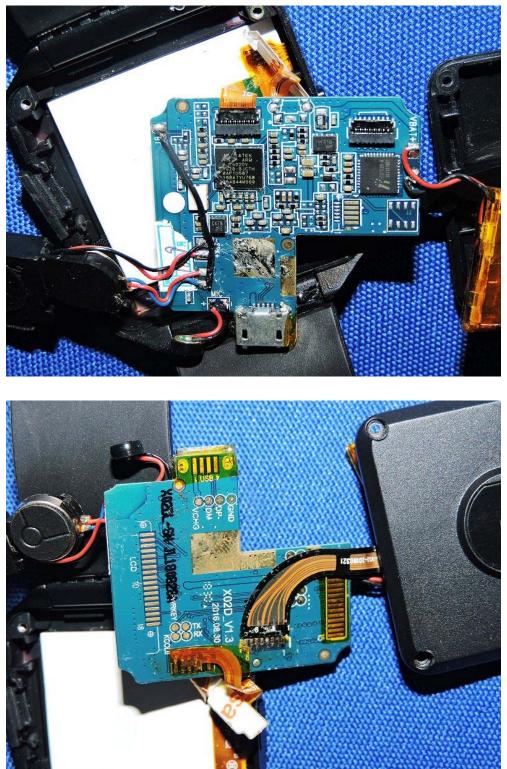
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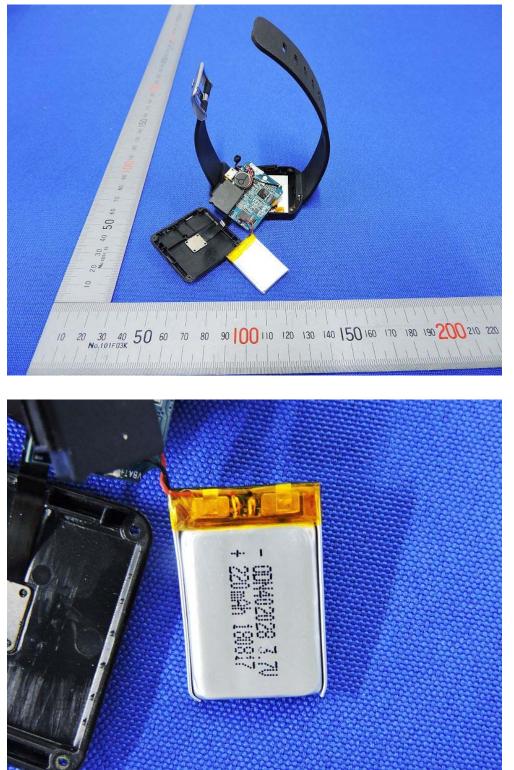
Inside View



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Inside View



End of the report

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