

TEST REPORT

FCC ID: 2ASWN-TAP2

Product: Health Tracker Smartwatch

Model No.: TAP2

Additional Model No.: N/A

Trade Mark: N/A

Report No.: TCT200924E901

Issued Date: Sep. 28, 2020

Issued for:

AnyCARE Corp.

18023-L Skypark Circle, Irvine, California 92614, United States

Issued By:

Shenzhen Tongce Testing Lab.

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

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This test report was based on TCT200727E001; Change applicant, address, product name and product model No.

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com





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1. Test Certification

Report No.: TCT200924E901

Product:	Health Tracker Smartwatch
Model No.:	TAP2
Additional Model No.:	N/A
Trade Mark:	N/A
Applicant:	AnyCARE Corp.
Address:	18023-L Skypark Circle, Irvine, California 92614, United States
Manufacturer:	Joint Chinese Ltd
Address:	Building 6, Huafeng Tech Park, Luotian Industrial Area, Songgang Town, Baoan, Shenzhen, 518125 China
Date of Test:	Jul. 28, 2020 – Aug. 06, 2020
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013

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.

Reviewed By:

Brave Zeng

Date: Aug. 06, 2020

Date: Sep. 28, 2020

Beryl Zhao

Approved By: Tomsm Date: Sep. 28, 2020

Tomsin



2. Test Result Summary

Requirement	CFR 47 Section	Result		
Antenna requirement	§15.203/§15.247 (c)	PASS		
AC Power Line Conducted Emission	§15.207	PASS		
Conducted Peak Output Power	§15.247 (b)(3)	PASS		
6dB Emission Bandwidth	§15.247 (a)(2)	PASS		
Power Spectral Density	§15.247 (e)	PASS		
Band Edge	§15.247(d)	PASS		
Spurious Emission	§15.205/§15.209	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.
- 5. After pre-testing the two earphones, the two earphones are left and right ears respectively; we found that the left earphone is the worst case, so the results are recorded in this report.



3. EUT Description

Product:	Health Tracker Smartwatch
Model No.:	TAP2
Additional Model No.:	N/A
Trade Mark:	N/A
Hardware Version:	1963B-V1.0
Software Version:	1963YH_V100_1
Bluetooth Version:	V4.2
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Type:	GFSK
Antenna Type:	Ceramic Antenna
Antenna Gain:	0dBi
Power Supply:	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

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		
							•••		
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz		
9 2420MHz 19 2440MHz 29 2460MHz 39 2480MHz									
Remark:	Remark: Channel 0, 19 & 39 have been tested.								



4. General Information

4.1. Test environment and mode

Operating Environment:							
Condition	Radiated Emission						
Temperature:	25.0 °C	25.0 °C					
Humidity:	55 % RH	55 % RH					
Atmospheric Pressure:	1010 mbar	1010 mbar					
Test Mode:							
Engineering mode:	mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery						

The sample was placed 0.8m & 1.5m for the measurement below & 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(Z axis) are shown in Test Results of the following pages.

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
1 (3)	1 6) /	S) 1	(6)

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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



TESTING CENTRE TECHNOLOGY Report No.: TCT200924E901

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
9	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±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:

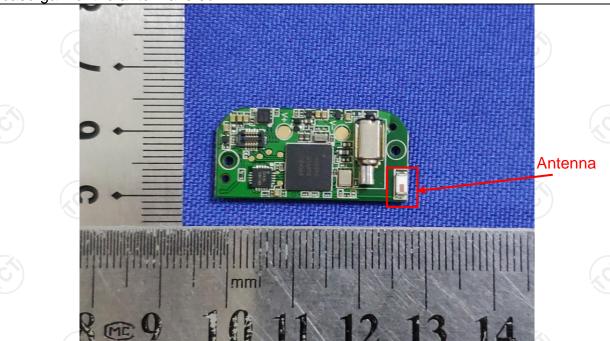
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Bluetooth antenna is ceramic 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 C63.10:2013					
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50			
	Refere	nce Plane	120			
Test Setup:	Test table/Insulation plan Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	EMI Receiver	lter — AC power			
Test Mode:	Charging + Transmittin	g Mode				
Test Procedure:	 The E.U.T is connected to an adapter 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 according to ANSI C63.10: 2013 on conducted measurement. 					
Test Result:	PASS					



6.2.2. Test Instruments

Report No.: TCT200924E901

Conducted Emission Shielding Room Test Site (843)											
Equipment	Manufacturer	Model	Serial Number	Calibration Due							
Test Receiver	R&S	ESPI	101402	Jul. 27, 2021							
LISN	LISN Schwarzbeck		8126453	Sep. 11, 2020							
Coax cable (9KHz-30MHz)			N/A	Sep. 08, 2020							
EMI Test Software	Shurple 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).

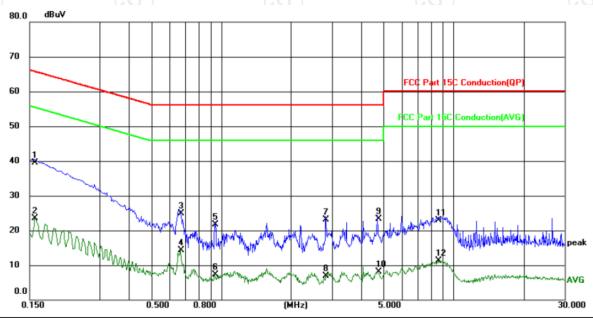




6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site	Phase:	L1	Temperature	e: 25 (C)
Limit: FCC Part 15C Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	55 %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	29.34	10.22	39.56	65.57	-26.01	QP	
2		0.1580	13.23	10.22	23.45	55.57	-32.12	AVG	
3		0.6700	14.63	10.23	24.86	56.00	-31.14	QP	
4		0.6700	4.01	10.23	14.24	46.00	-31.76	AVG	
5		0.9420	11.36	10.33	21.69	56.00	-34.31	QP	
6		0.9420	-3.11	10.33	7.22	46.00	-38.78	AVG	
7		2.8220	12.68	10.46	23.14	56.00	-32.86	QP	
8		2.8220	-3.50	10.46	6.96	46.00	-39.04	AVG	
9		4.7460	12.86	10.48	23.34	56.00	-32.66	QP	
10		4.7460	-2.43	10.48	8.05	46.00	-37.95	AVG	
11		8.5780	12.36	10.54	22.90	60.00	-37.10	QP	
12		8.5780	0.69	10.54	11.23	50.00	-38.77	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

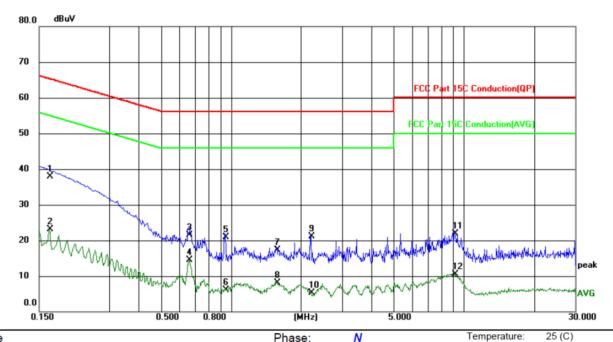
Report No.: TCT200924E901

 $^{^{\}star}$ is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz





Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site Phase: N Temperature: 25 (C Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1660	27.68	10.22	37.90	65.16	-27.26	QP	
2		0.1660	12.90	10.22	23.12	55.16	-32.04	AVG	
3		0.6620	11.36	10.23	21.59	56.00	-34.41	QP	
4		0.6620	4.29	10.23	14.52	46.00	-31.48	AVG	
5		0.9500	10.56	10.34	20.90	56.00	-35.10	QP	
6		0.9500	-4.26	10.34	6.08	46.00	-39.92	AVG	
7		1.5780	6.89	10.41	17.30	56.00	-38.70	QP	
8		1.5780	-2.38	10.41	8.03	46.00	-37.97	AVG	
9		2.2020	10.65	10.45	21.10	56.00	-34.90	QP	
10		2.2020	-5.09	10.45	5.36	46.00	-40.64	AVG	
11		9.1700	11.36	10.56	21.92	60.00	-38.08	QP	
12		9.1700	0.01	10.56	10.57	50.00	-39.43	AVG	

Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



6.3. Conducted Output Power

6.3.1. Test Specification

15.247 (b)(3) r02	
) (c
	(ć
	Ć
r as following: DTS bandwidth. RBW. to couple. x hold. y stabilize. function to determine the	peak
y	stabilize.

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020

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

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6.3.3. Test Data

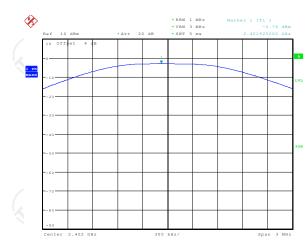
BT LE mode							
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result				
Lowest	-2.76	30.00	PASS				
Middle	-3.30	30.00	PASS				
Highest	-3.61	30.00	PASS				

Test plots as follows:

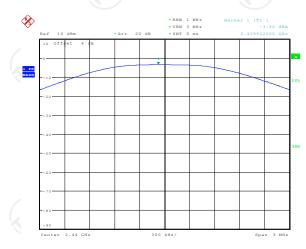




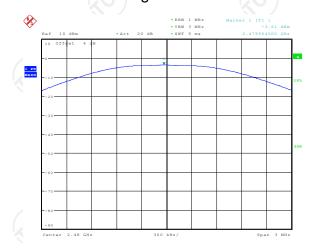
Lowest channel







Pate: 6.AUG.2020 15:50:36 Highest channel



Date: 6.AUG.2020 15:51:10



6.4. Emission Bandwidth

6.4.1. Test Specification

733						
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	>500kHz					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Refer to item 4.1					
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 					
Test Result:	PASS					

6.4.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibration							
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020			
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Sep. 11, 2020			
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2020			

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

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6.4.3. Test data

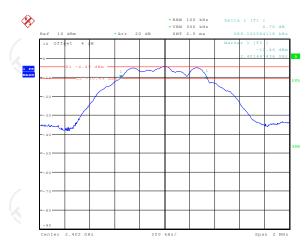
Test channel	6dB Emission	Bandwidth (kHz)	
rest channel	BT LE mode	Limit	Result
Lowest	689.10	>500k	80
Middle	685.90	>500k	PASS
Highest	692.31	>500k	(3)

Test plots as follows:



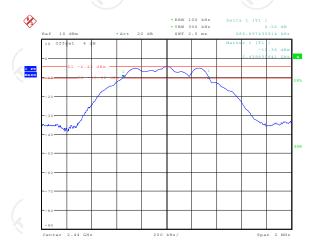


Lowest channel

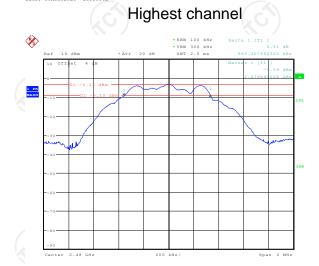




Middle channel



Date: 6.AUG.2020 15:56:42



Date: 6.AUG.2020 16:42:22



6.5. Power Spectral Density

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.					
Test Setup:	Southern Andrew EUT					
	Spectrum Analyzer					
Test Mode:	Refer to item 4.1					
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 					
Test Result:	PASS					

6.5.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibration							
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020			
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Sep. 11, 2020			
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2020			

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



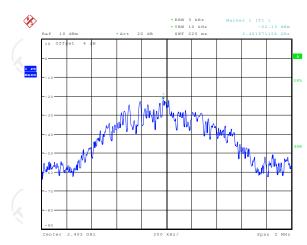
6.5.3. Test data

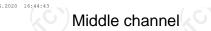
Test channel	Power Spectral Density (dBm/3kHz)					
rest channel	BT LE mode	Limit	Result			
Lowest	-22.13	8 dBm/3kHz	0			
Middle	-22.49	8 dBm/3kHz	PASS			
Highest	-22.44	8 dBm/3kHz				

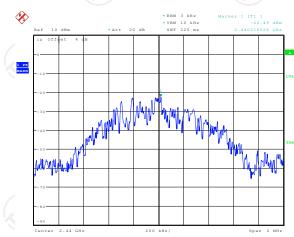
Test plo	ots as follows	s:			



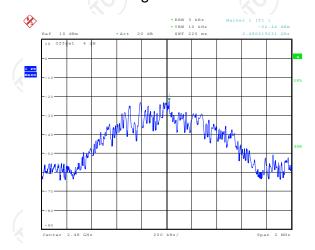
Lowest channel







Highest channel



Date: 6.AUG.2020 16:45:18



6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB 558074 D01 v05r02				
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).				
Test Setup:	Spectrum Anabasa EUT				
Test Mode:	Spectrum Analyzer Refer to item 4.1				
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 				
Test Result:	PASS				

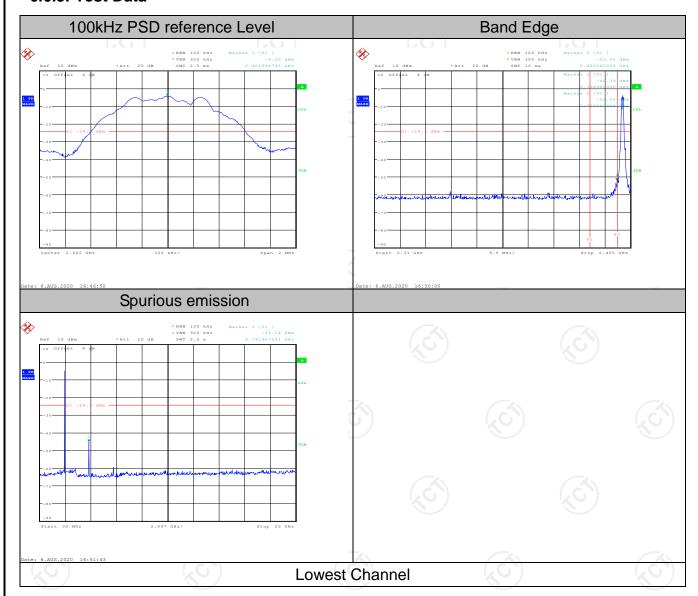


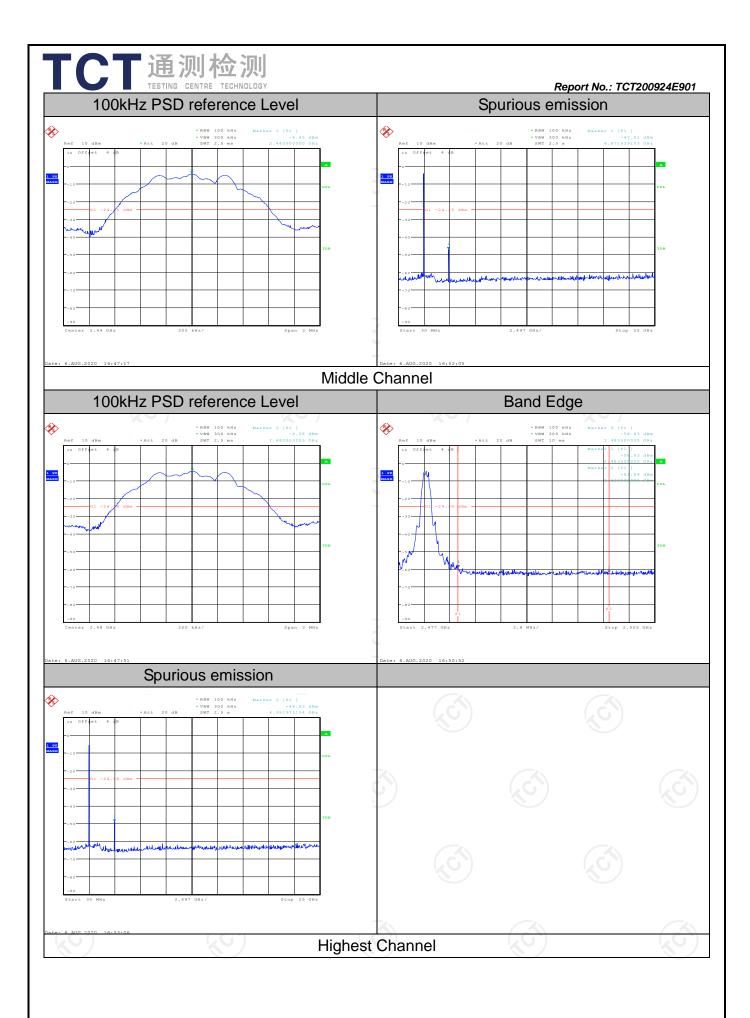
6.6.2. Test Instruments

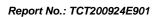
	RI	F Test Room	1	
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 11, 2020
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2020

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

6.6.3. Test Data





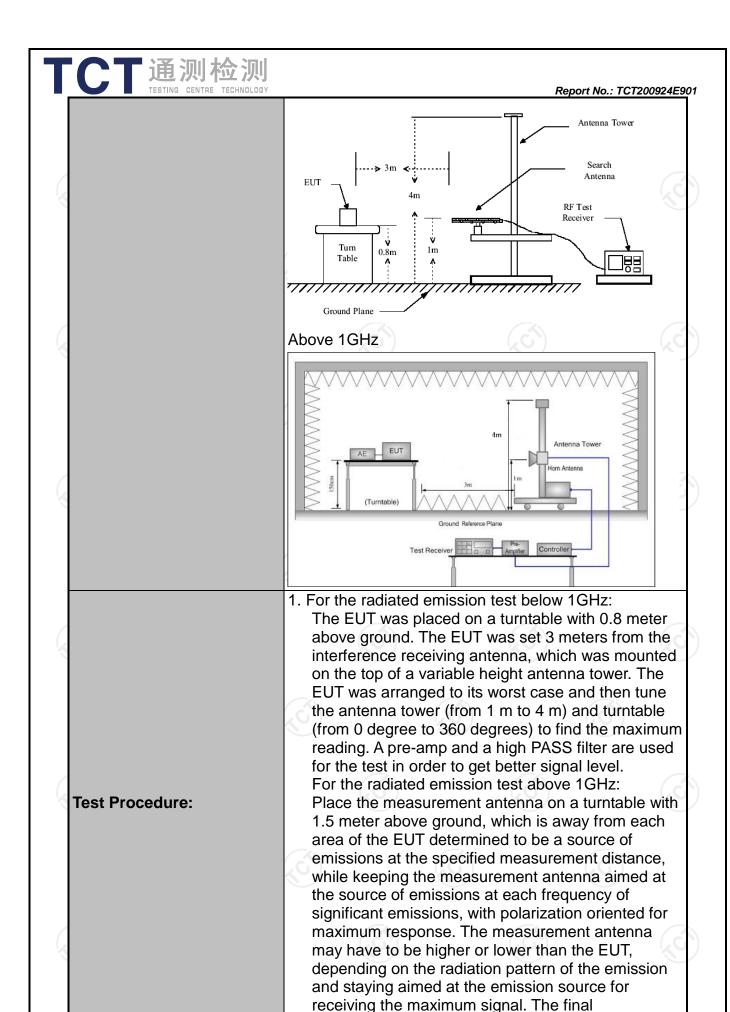




6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

		<i>X</i>					
Test Requirement:	FCC Part15	C Section	15.209	(0)	Ko		
Test Method:	ANSI C63.10	D: 2013					
Frequency Range:	9 kHz to 25 (GHz					
Measurement Distance:	3 m	K			(6)		
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Refer to item	1 4.1		(C)	Ć		
	Frequency	Detector	RBW	VBW	Remark		
	9kHz- 150kHz	Quasi-peal	k 200Hz	1kHz	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peal		30kHz	Quasi-peak Value		
	30MHz-1GHz	Quasi-peal	k 120KHz	300KHz	Quasi-peak Value		
		Peak	1MHz	3MHz	Peak Value		
	Above 1GHz	Peak	1MHz	10Hz	Average Value		
		1 our		TOTILE	7 tvolago valao		
	Frequen	ncy	Field Stro (microvolts		Measurement Distance (meters)		
	0.009-0.4	490	2400/F(KHz)		300		
	0.490-1.7		24000/F(30		
	1.705-3		30	/	30		
	30-88		100		3		
	88-216		150		3		
Limit:	216-96		200		3		
	Above 9		500	3			
	(,(57)	(,0)		(20		
	Frequency		d Strength ovolts/meter)	Measure Distan (mete	nce Detector		
	Ab 4011		500	3	Average		
	Above 1GHz	Z	5000	3	Peak		
	For radiated	emission	s below 30)MHz			
	Di	stance = 3m					
					Computer		
	†	\longrightarrow $ $		Pre -	Amplifier		
Test setup:	0.8m	Turn table 1m					
	30MHz to 10		d Plane		Ç		





detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;	TESTING CENTRE TECHNOLOGY	Report No.: TCT200924E9
lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Test mode: Refer to section 4.1 for details		maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level
(3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Test mode: Refer to section 4.1 for details		 lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW;
		(3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum
Test results: PASS	Test mode:	Refer to section 4.1 for details
	Test results:	PASS (C)







6.7.2. Test Instruments

	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2020
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 27, 2020
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 06, 2020
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 08, 2020
EMI Test Software	Shurple 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).



Limit: FCC Part 15C 3M Radiation

Report No.: TCT200924E901

Humidity:

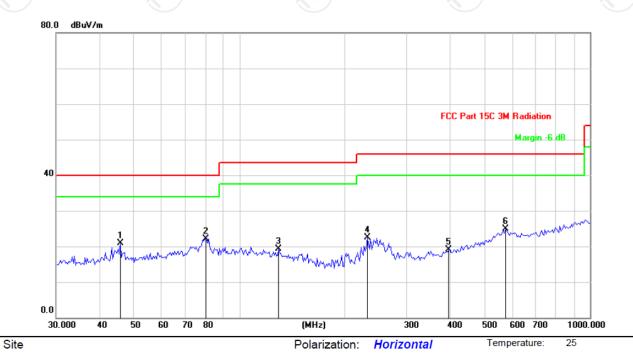
55 %

6.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

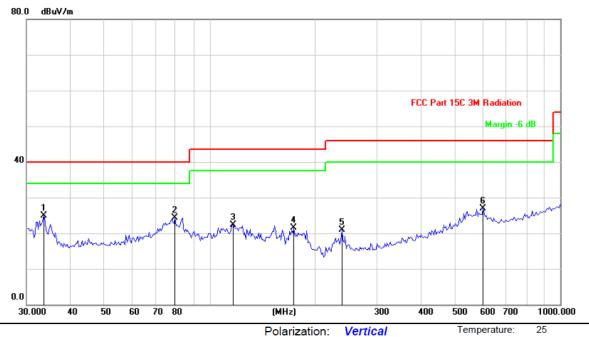


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		45.7333	31.40	-10.58	20.82	40.00	-19.18	peak
2	*	80.2383	38.99	-16.88	22.11	40.00	-17.89	peak
3		129.3923	34.80	-15.57	19.23	43.50	-24.27	peak
4		231.8531	35.74	-13.30	22.44	46.00	-23.56	peak
5		395.5071	28.06	-8.98	19.08	46.00	-26.92	peak
6		573.9882	30.99	-6.10	24.89	46.00	-21.11	peak

Power:



Vertical:



Limit: FCC Part 15C 3M Radiation Power: Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	_
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	33.5700	36.12	-11.16	24.96	40.00	-15.04	peak
2		79.6764	41.37	-16.99	24.38	40.00	-15.62	peak
3		116.4476	33.28	-11.02	22.26	43.50	-21.24	peak
4		173.8146	36.95	-15.50	21.45	43.50	-22.05	peak
5		238.4626	33.94	-13.10	20.84	46.00	-25.16	peak
6		602.9287	32.24	-5.42	26.82	46.00	-19.18	peak

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

- 2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Lowest channel) was submitted only.
- 3. Freq. = Emission frequency in MHz

 Measurement (dBμV/m) = Reading level (dBμV) + Corr. Factor (dB)

 Correction Factor= Antenna Factor + Cable loss Pre-amplifier

 Limit (dBμV/m) = Limit stated in standard

 Margin (dB) = Measurement (dBμV/m) Limits (dBμV/m)

Any value more than 10dB below limit have not been specifically reported

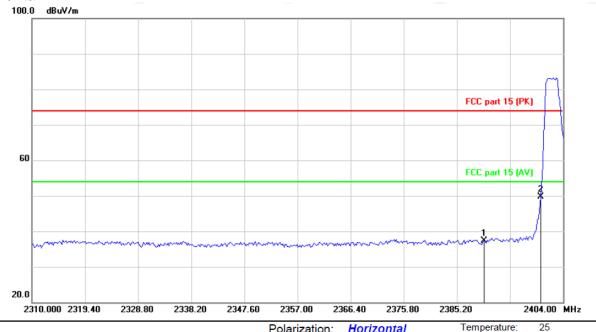
^{*} is meaning the worst frequency has been tested in the test frequency range



Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:

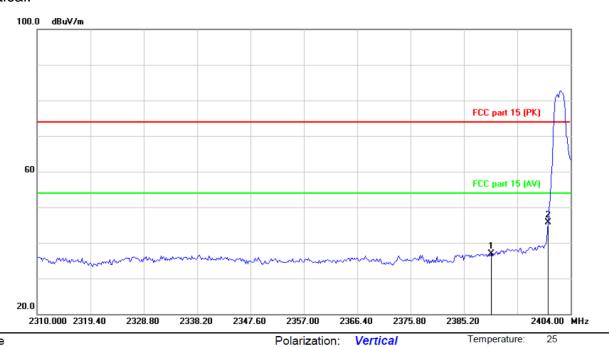


Site	Polarization: Horizontal	Temperature	: 25
Limit: FCC part 15 (PK)	Power:	Humidity:	55 %

No.	o. Mk. Freq.				Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2390.000	50.42	-13.15	37.27	74.00	-36.73	peak
2	*	2400.000	62.92	-13.12	49.80	74.00	-24.20	peak







Site Polarization: Vertical Temperature: 25 Limit: FCC part 15 (PK) Power: Humidity: 55 %

No.	No. Mk. F			Correct Measure- Factor ment		Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2390.000	50.04	-13.15	36.89	74.00	-37.11	peak
2	*	2400.000	58.81	-13.12	45.69	74.00	-28.31	peak

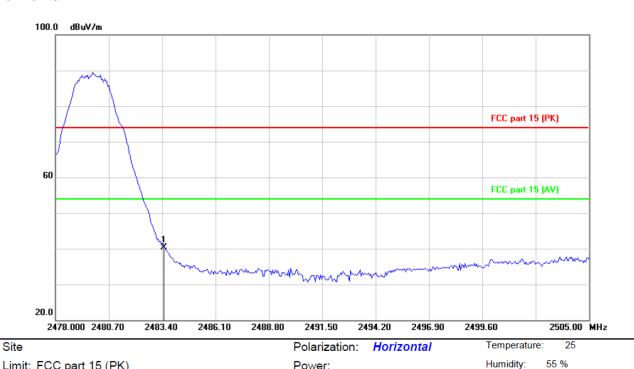




Highest channel 2480:

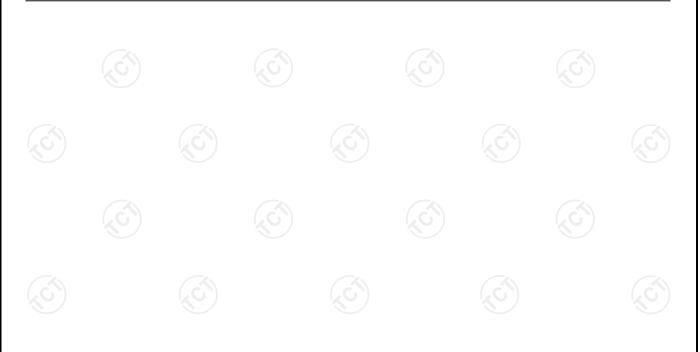
Limit: FCC part 15 (PK)

Horizontal:

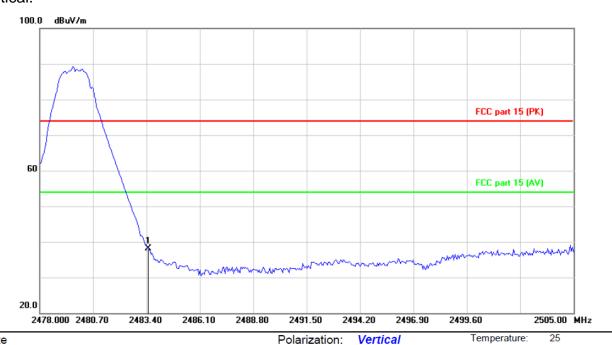


No. M	lk. Freq.	Reading Correct Level Factor			Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1 *	2483.500	53.19	-12.84	40.35	74.00	-33.65	peak

Power:







Site Polarization: Vertical Temperature: 25
Limit: FCC part 15 (PK) Power: Humidity: 55 %

No.	No. Mk. Freq				Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	2483.500	51.03	-12.84	38.19	74.00	-35.81	peak





Above 1GHz

Low chann	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	45.82		0.66	46.48		74	54	-7.52
7206	Н	36.75		9.50	46.25		74	54	-7.75
	Н								
4804	V	44.97		0.66	45.63		74	54	-8.37
7206	CV	35.24	-420	9.50	44.74	(C) 1)-	74	54	-9.26
	V					<u> </u>			

Middle channel: 2440 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)		Margin (dB)	
4880	Η	43.48	-	0.99	44.47	-	74	54	-9.53	
7320	Η	34.15	-	9.87	44.02		74	54	-9.98	
	H				(
Į.			KO					(C)		
4880	V	44.68)	0.99	45.67)	74	54	-8.33	
7320	V	34.09	-	9.87	43.96		74	54	-10.04	
	V	 /.	-	-						

High channel: 2480 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	H	46.34	+-6	1.33	47.67	-	74	54	-6.33
7440	Н	37.17	-1	10.22	47.39	1	74	54	-6.61
	Н								
4960	V	47.02		1.33	48.35		74	54	-5.65
7440	V	36.56		10.22	46.78		74	54	-7.22
	V				/				

Note:

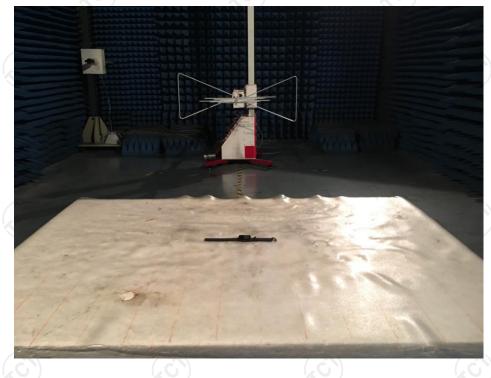
- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. 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. All the restriction bands are compliance with the limit of 15.209.

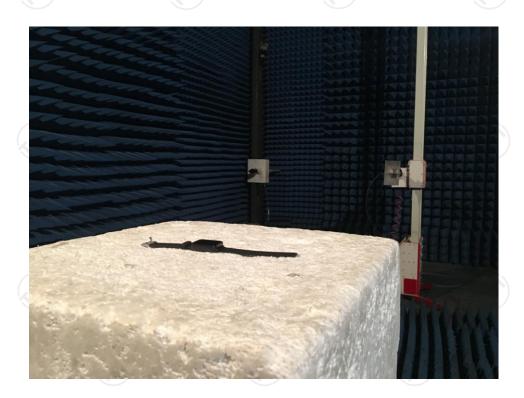




Appendix A: Photographs of Test Setup

Product: Health Tracker Smartwatch
Model: TAP2
Radiated Emission







Conducted Emission















Appendix B: Photographs of EUT Product: Health Tracker Smartwatch Model: TAP2 External Photos





















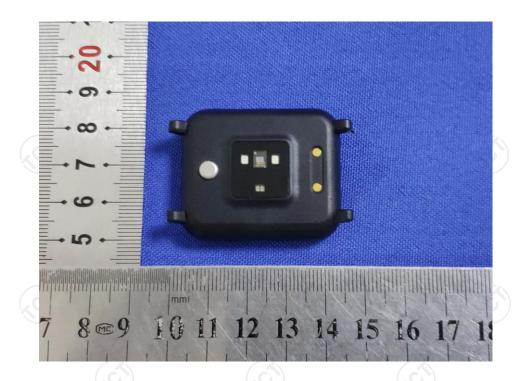


















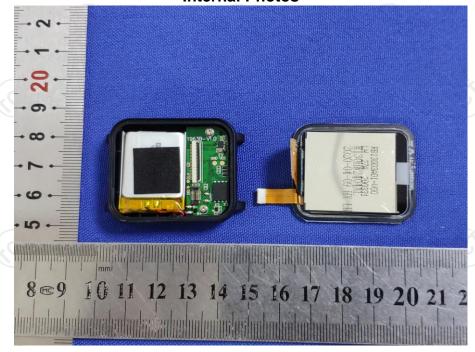


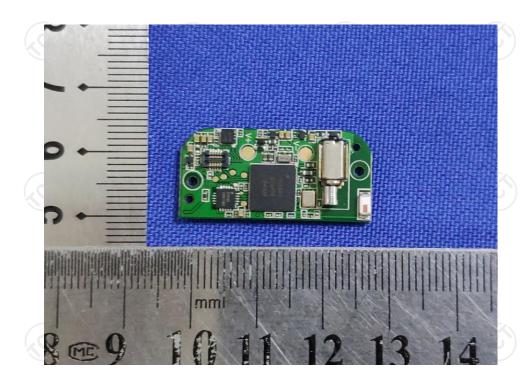




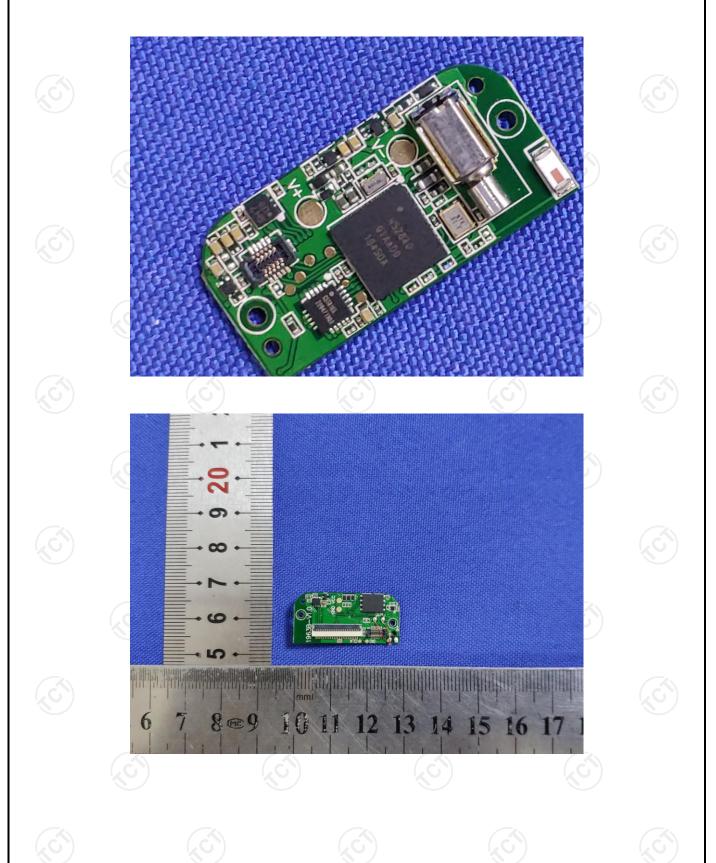


Product: Health Tracker Smartwatch Model: TAP2 Internal Photos

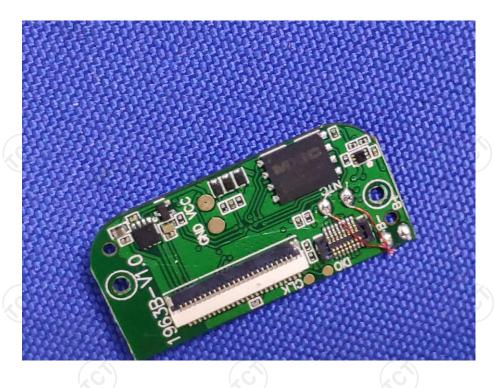








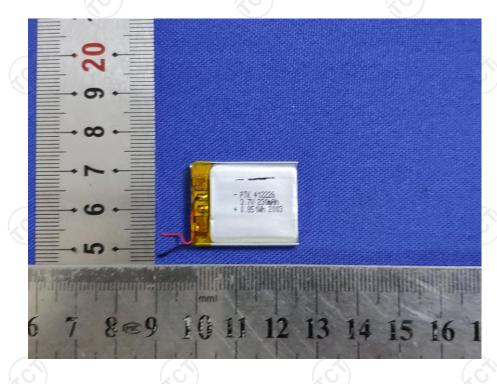




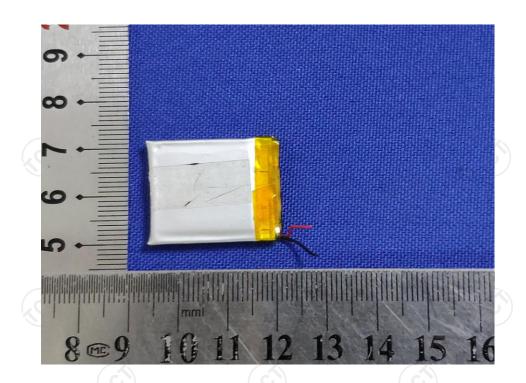












*****END OF REPORT*****

