

	TEST REPOR	T			
FCC ID:	2ACSTRBHRM				
Test Report No::	TCT211122E001				
Date of issue::	Nov. 30, 2021				
Testing laboratory:	SHENZHEN TONGCE TESTIN	G LAB			
Testing location/ address:	TCT Testing Industrial Park Fud Street, Bao'an District Shenzher Republic of China	iao 5th Industrial Zone, Fuhai n, Guangdong, 518103, People's			
Applicant's name::	NCI TECHNOLOGY, INC.				
Address::	R108 Jiu Zhu Rd, Jiang Ning Eco.&Tech.Development Zone Nanjing, Jiang Su Province, 211102 China				
Manufacturer's name:	NCI TECHNOLOGY, INC.				
Address::	R108 Jiu Zhu Rd, Jiang Ning Eco.&Tech.Development Zone Nanjing, Jiang Su Province, 211102 China				
Standard(s):	FCC CFR Title 47 Part 15 Subp FCC KDB 558074 D01 15.247 M ANSI C63.10:2013				
Test item description:	Heart Rate Monitor				
Trade Mark:	N/A				
Model/Type reference:	HRM308				
Rating(s)::	Rechargeable Li-ion battery DC	3.7V			
Date of receipt of test item	Nov. 22, 2021				
Date (s) of performance of test:	Nov. 22, 2021 - Nov. 30, 2021				
Tested by (+signature):	: Aaron Mo				
Check by (+signature):	Beryl Zhao	Buy TCT)			
Approved by (+signature):	Tomsin	Toms is si			

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1. General Product Information

1.1. EUT description

Test item description:	Heart Rate Monitor			(01)
Model/Type reference:	HRM308			
Sample Number:	TCT211122E001-0101			
Bluetooth Version:	V5.0			
Operation Frequency:	2402MHz~2480MHz			
Channel Separation:	2MHz	(C)		
Number of Channel:	40			
Modulation Type:	GFSK		(3)	
Antenna Type:	PCB Antenna			
Antenna Gain:	0dBi			
Rating(s):	Rechargeable Li-ion battery DC	3.7V		(2)

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

1.2. Model(s) list

None.

1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
	(0)		(0)		(0)		((0))
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Channel 0, 19 & 39 have been tested.							



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.





TESTING CENTRE TECHNOLOGY Report No.: TCT211122E001

3. General Information

3.1. Test environment and mode

Operating Environment:				
Condition	Conducted Emission	Radiated Emission		
Temperature:	25.0 °C	23.4 °C		
Humidity:	55 % RH	48 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		
Test Software:				
Software Information:	nRFgo Studio			
Power Level:	default			
Test Mode:				
Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations				

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.

3.2. 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	
Adapter	JD-050200	2012010907576735		JD 🔀	

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.



4. Facilities and Accreditations

4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab 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

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park, Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB



5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

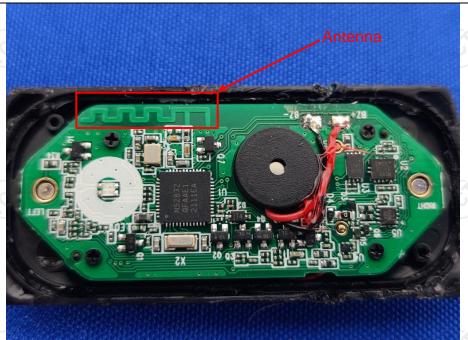
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 PCB antenna which permanently attached, and the best case gain of the antenna is 0dBi.





5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	<u>(~)</u>	(C ¹)		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=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		
	Reference Plane				
Test Setup:	Adapter E.U.T Adapter Filter AC power EMI Receiver Remark E.U.T: Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Refer to item 3.1				
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. PASS				



5.2.2. Test Instruments

Equipment

EMI Test Receiver

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Calibration Due

Jul. 07, 2022

S	e Impedance Stabilisation ewtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Mar. 11, 2022	2
	Line-5	TCT	CE-05	N/A Jul. 07, 202)
ЕМІ	Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

Conducted Emission Shielding Room Test Site (843)

Model

ESCI3

Serial Number

100898

Manufacturer

R&S

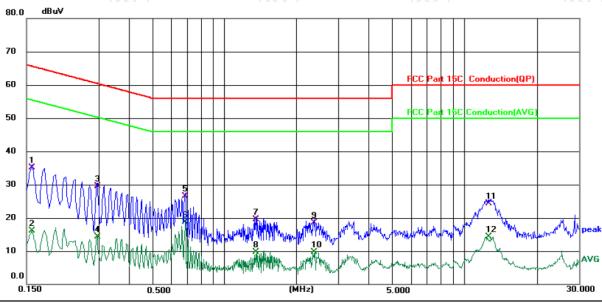


5.2.3. Test data

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Please refer to following diagram for individual

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



Site 844 Shielding Room Phase: L1 Temperature: 25 (°C) Humidity: 55 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	25.51	9.60	35.11	65.57	-30.46	QP	
2		0.1580	6.48	9.60	16.08	55.57	-39.49	AVG	
3		0.2940	20.16	9.32	29.48	60.41	-30.93	QP	
4		0.2940	4.99	9.32	14.31	50.41	-36.10	AVG	
5		0.6860	17.24	9.18	26.42	56.00	-29.58	QP	
6	*	0.6860	9.52	9.18	18.70	46.00	-27.30	AVG	
7		1.3540	10.24	9.36	19.60	56.00	-36.40	QP	
8		1.3540	0.42	9.36	9.78	46.00	-36.22	AVG	
9		2.3699	9.11	9.47	18.58	56.00	-37.42	QP	
10		2.3699	0.19	9.47	9.66	46.00	-36.34	AVG	
11		12.6260	14.60	9.64	24.24	60.00	-35.76	QP	
12		12.6260	4.71	9.64	14.35	50.00	-35.65	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)

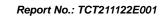
 $Limit (dB\mu V) = Limit stated in standard$

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

Q.P. =Quasi-Peak

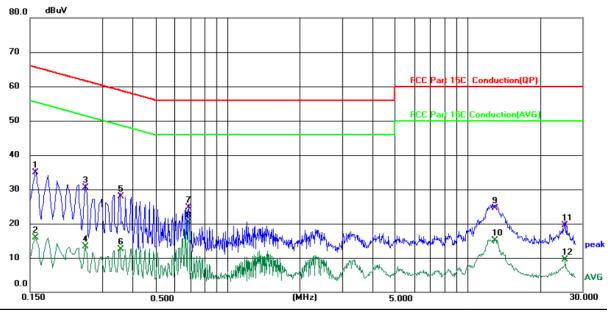
AVG =average

^{*} 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 844 Shielding Room Phase: N Temperature: 25 (°C) Humidity: 55 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	25.34	9.59	34.93	65.57	-30.64	QP	
2		0.1580	6.29	9.59	15.88	55.57	-39.69	AVG	
3		0.2540	21.17	9.33	30.50	61.63	-31.13	QP	
4		0.2540	4.01	9.33	13.34	51.63	-38.29	AVG	
5		0.3540	18.54	9.30	27.84	58.87	-31.03	QP	
6		0.3540	3.25	9.30	12.55	48.87	-36.32	AVG	
7		0.6860	15.41	9.21	24.62	56.00	-31.38	QP	
8	*	0.6860	11.08	9.21	20.29	46.00	-25.71	AVG	
9		13.0180	14.85	9.65	24.50	60.00	-35.50	QP	
10		13.0180	5.53	9.65	15.18	50.00	-34.82	AVG	
11		25.4380	9.58	9.83	19.41	60.00	-40.59	QP	
12		25.4380	-0.34	9.83	9.49	50.00	-40.51	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

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





5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	KDB 558074 D01 v05r02				
Limit:	30dBm				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Refer to item 3.1				
Test Procedure:	Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.				
Test Result:	PASS				

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU 200054		Jul. 18, 2022
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Jul. 18, 2022
Antenna Connector	тст	RFC-01	N/A	Jul. 18, 2022



5.3.3. Test Data

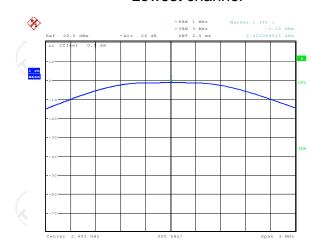
BT LE mode							
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result				
Lowest	-1.16	30.00	PASS				
Middle	-1.37	30.00	PASS				
Highest	-1.85	30.00	PASS				

Test plots as follows:

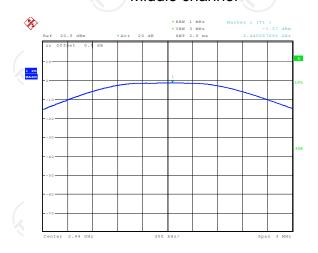




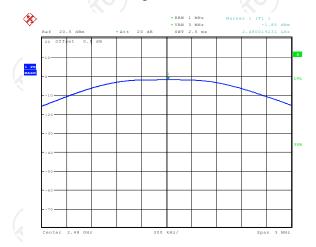
Lowest channel







Date: 23.NOV.2021 11:56:36 Highest channel



Date: 23.NOV.2021 11:57:46



5.4. Emission Bandwidth

5.4.1. Test Specification

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 3.1
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

5.4.2. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	R&S	FSU	200054	Jul. 18, 2022				
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Jul. 18, 2022				
Antenna Connector	тст	RFC-01	N/A	Jul. 18, 2022				

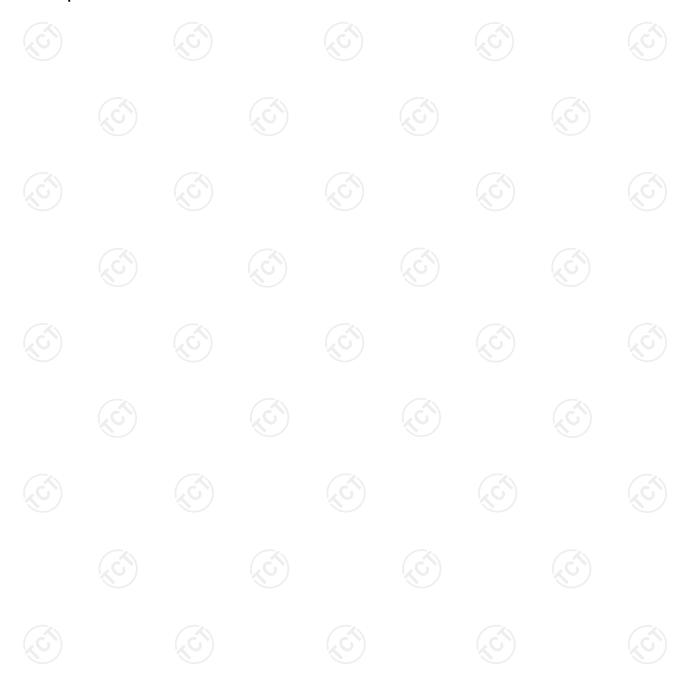


5.4.3. Test data

Report No.: TCT211122E001

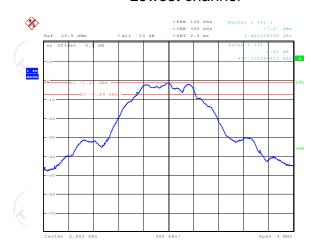
Test channel	6dB Emission Bandwidth (kHz)					
rest channel	BT LE mode	Limit	Result			
Lowest	697.12	>500k				
Middle	687.50	>500k	PASS			
Highest	692.31	>500k	(3)			

Test plots as follows:



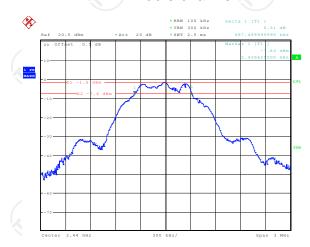


Lowest channel



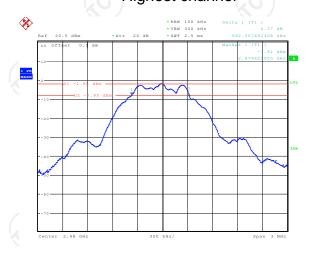
Date: 23.NOV.2021 13:47:27

Middle channel



Date: 23.NOV.2021 13:50:32

Highest channel



Date: 23.NOV.2021 13:52:12



5.5. Power Spectral Density

5.5.1. 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:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
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

5.5.2. Test Instruments

RF Test Room								
Equipment	Manufacturer Model Serial Number Calibration I							
Spectrum Analyzer	R&S	FSU	200054	Jul. 18, 2022				
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Jul. 18, 2022				
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022				



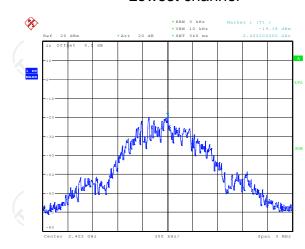
5.5.3. Test data

Test channel	Power Spectral Density (dBm/3kHz)					
rest channel	BT LE mode	Limit	Result			
Lowest	-19.18	8 dBm/3kHz	0			
Middle	-20.23	8 dBm/3kHz	PASS			
Highest	-21.97	8 dBm/3kHz				

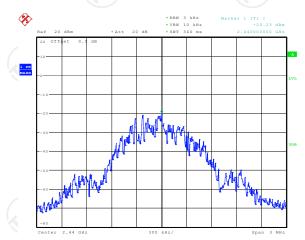
Test plots as follows:					



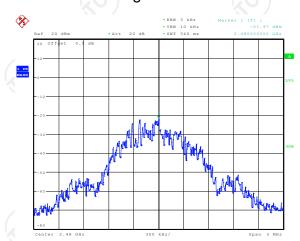
Lowest channel







Pate: 23.NOV.2021 14:08:31 Highest channel



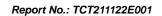
Date: 23.NOV.2021 14:10:35



5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. 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:		EUT		
T (88 - 1 -	Spectrum Analyzer	COI		
Test Mode:	Refer to item 3.1	(0)		
Test Procedure:	analyzer by RF cable a was compensated to the measurement. 2. Set to the maximum por EUT transmit continuors. 3. Set RBW = 100 kHz, Vor Unwanted Emissions of the bandwidth outside of the shall be attenuated by maximum in-band peasurement. If the transmitter power limits based on a time interval, the attenuated by the shall be 30 at 15.247(d). 4. Measure and record the 5. The RF fundamental free	wer setting and enable the		
Test Result:	PASS			

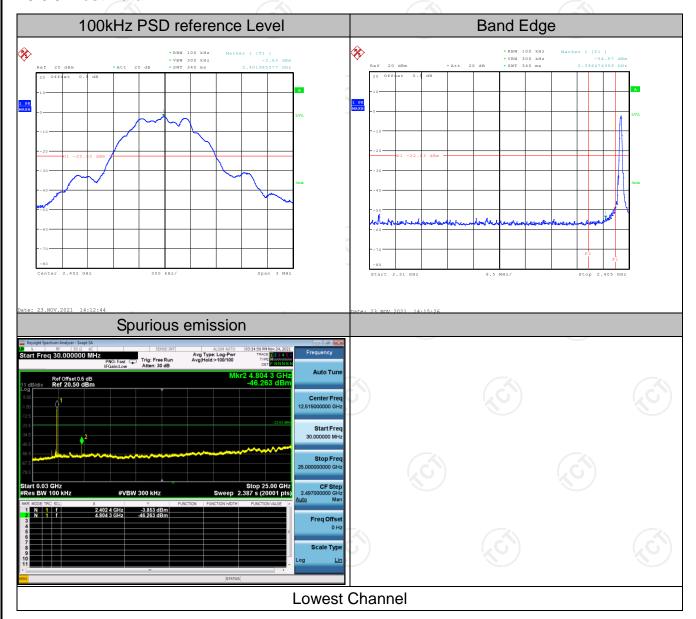


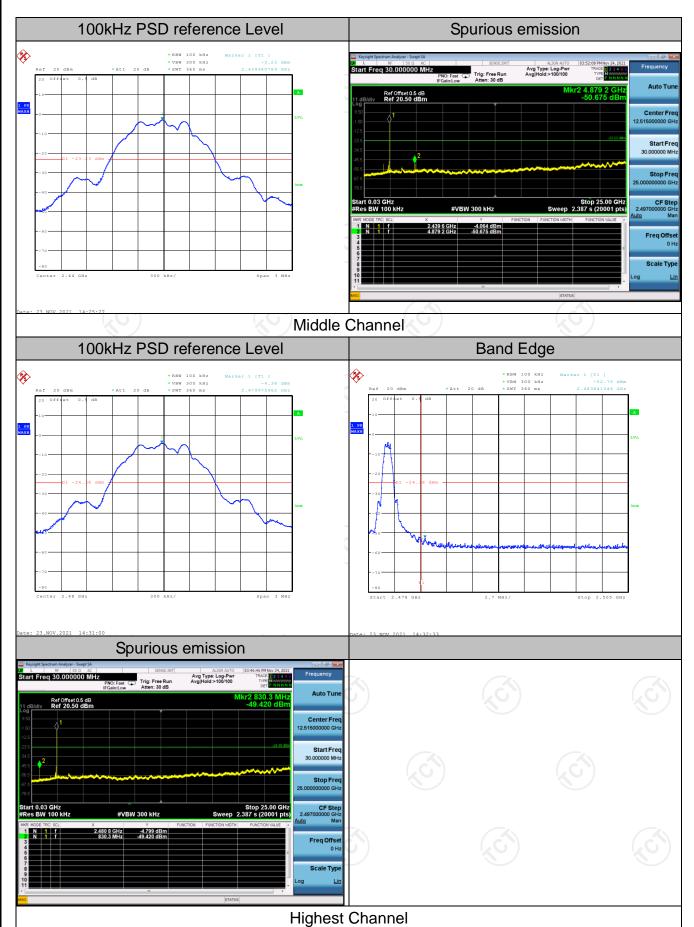


5.6.2. Test Instruments

RF Test Room										
Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Spectrum Analyzer	R&S	FSU	200054	Jul. 18, 2022						
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Jul. 18, 2022						
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022						
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022						
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022						

5.6.3. Test Data



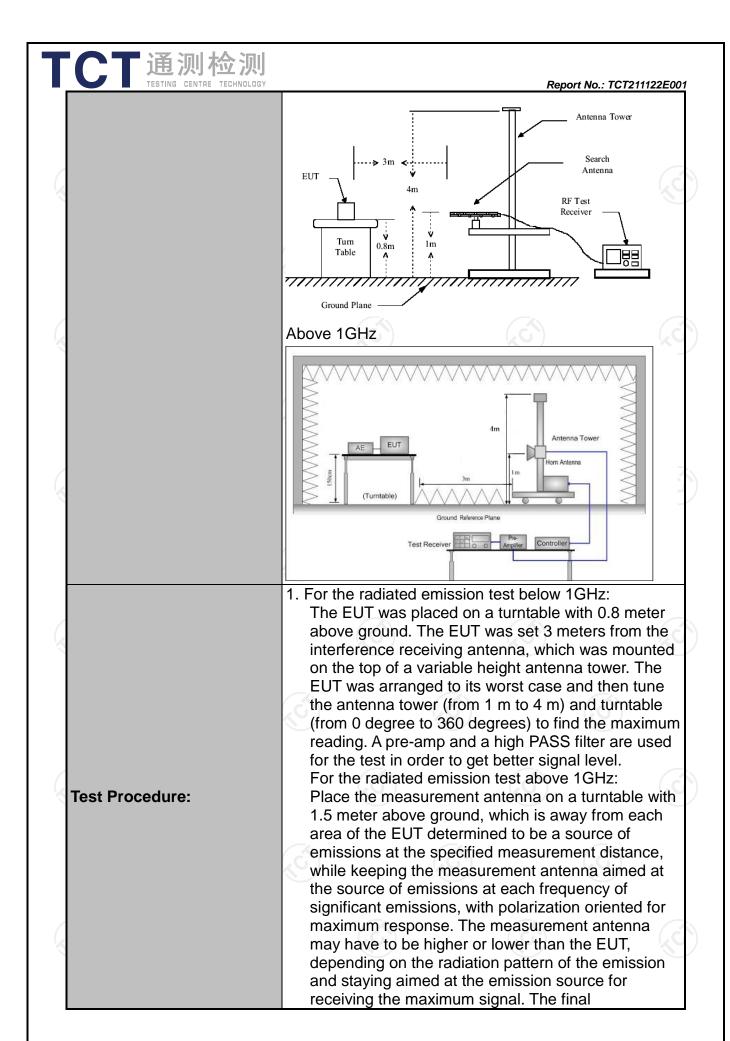


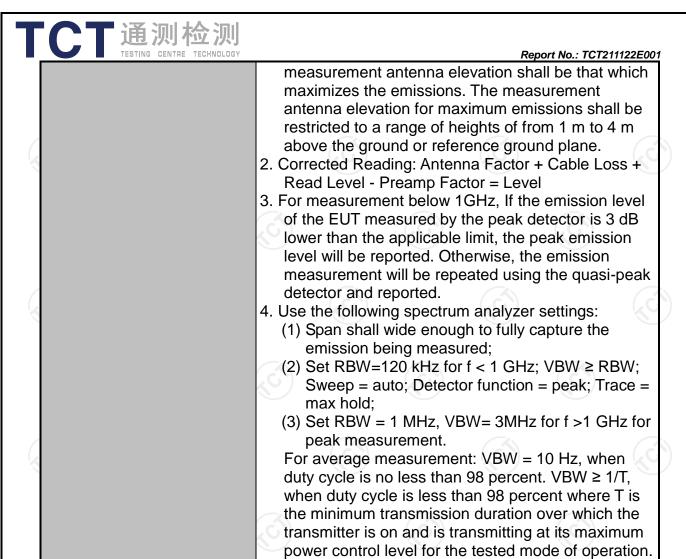


5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

		<u> </u>									
Test Requirement:	FCC Part15	C Section	n 15.209	(0)		1/20					
Test Method:	ANSI C63.10): 2013									
Frequency Range:	9 kHz to 25 (9 kHz to 25 GHz									
Measurement Distance:	3 m				100)					
Antenna Polarization:	Horizontal &										
Operation mode:	Refer to item	3.1	((C)		CĆ					
	Frequency	Detector	RBW	VBW		Remark					
	9kHz- 150kHz	Quasi-pea	k 200Hz	1kHz	Quas	i-peak Value					
Receiver Setup:	150kHz- 30MHz	Quasi-pea	k 9kHz	30kHz	Quas	i-peak Value					
·	30MHz-1GHz	Quasi-pea	k 120KHz	300KHz	Quas	i-peak Value					
	Al 4011-	Peak	1MHz	3MHz	Pe	eak Value					
	Above 1GHz	Peak	1MHz	10Hz		rage Value					
	Frequen	су	Field Stre	-		asurement nce (meters)					
	0.009-0.490		2400/F(H	(Hz)	300						
	0.490-1.7	705	24000/F(KHz)		30					
	1.705-3	30	30		(ć	30					
	30-88		100			3					
	88-216		150			3					
Limit:	216-96		200			3					
	Above 9	60	500			3					
				. Measuremei							
	Frequency		ld Strength ovolts/meter)	Measure Distan (mete	ice	Detector					
	Above 1GHz	,	500	3		Average					
	Above 1G112	_	5000	3		Peak					
	For radiated	emission	s below 30)MHz							
	Di	stance = 3m			Compu						
	+	 ,		_							
Test setup:		1(√_ г	Pre -	Amplifier	ЫI					
τε σεταμ.	0.8m	Turn table	lm	<u> </u>	Receiver						
		Groun	nd Plane			J					
	30MHz to 10	SHz				KO					



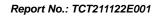


Refer to section 3.1 for details

PASS

Test mode:

Test results:





5.7.2. Test Instruments

	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Mar. 11, 2022
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Apr. 08, 2022
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

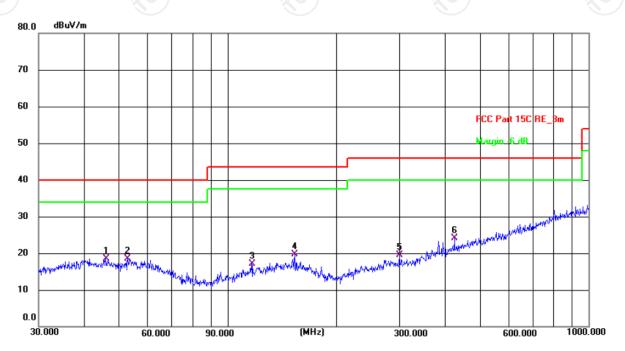


5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



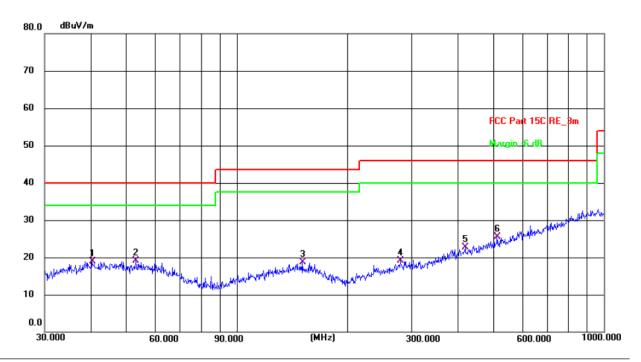
Site #2 Polarization: Horizontal Temperature: 23.4(C)
Limit: FCC Part 15C RE_3m Power: DC 3.7 V Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	46.0164	4.62	13.87	18.49	40.00	-21.51	QP	Р	
2	52.9453	4.90	13.58	18.48	40.00	-21.52	QP	Р	
3	116.5401	5.34	11.69	17.03	43.50	-26.47	QP	Р	
4	153.7385	6.41	13.36	19.77	43.50	-23.73	QP	Р	
5	299.3158	5.74	13.76	19.50	46.00	-26.50	QP	Р	
6	425.0280	6.31	17.80	24.11	46.00	-21.89	QP	Р	





Vertical:



Site #2 Polarization: Vertical Temperature: 23.4(C)
Limit: FCC Part 15C RE_3m Power: DC 3.7 V Humidity: 48 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	40.4172	4.98	14.00	18.98	40.00	-21.02	QP	Р	
2	53.1313	5.55	13.57	19.12	40.00	-20.88	QP	Р	
3	151.0666	5.33	13.34	18.67	43.50	-24.83	QP	Р	
4	279.0436	4.99	14.11	19.10	46.00	-26.90	QP	Р	
5	419.1081	5.09	17.66	22.75	46.00	-23.25	QP	Р	
6 *	511.8352	5.94	19.61	25.55	46.00	-20.45	QP	Р	

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

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

Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

Limit (dBµV/m) = Limit stated in standard

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

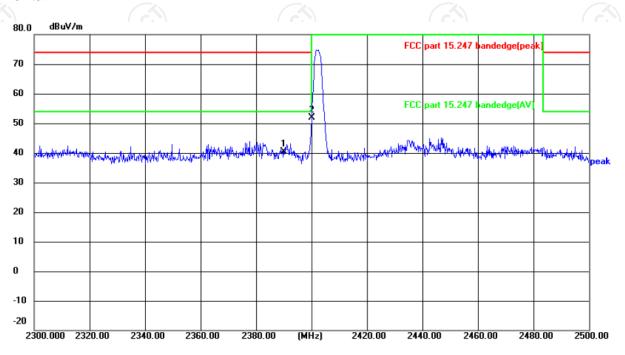
* is meaning the worst frequency has been tested in the test frequency range



Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:

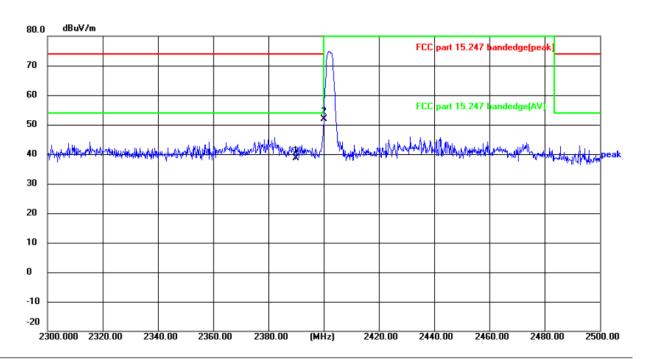


Site Polarization: Horizontal Temperature: 25(°C)
Limit: FCC part 15.247 bandedge(peak) Power: Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	55.30	-14.99	40.31	74.00	-33.69	peak
2 *	2400.000	66.78	-14.95	51.83	74.00	-22.17	peak







Site Polarization: Vertical Temperature: $25(^{\circ}\text{C})$ Limit: FCC part 15.247 bandedge(peak) Power: Humidity: 55%

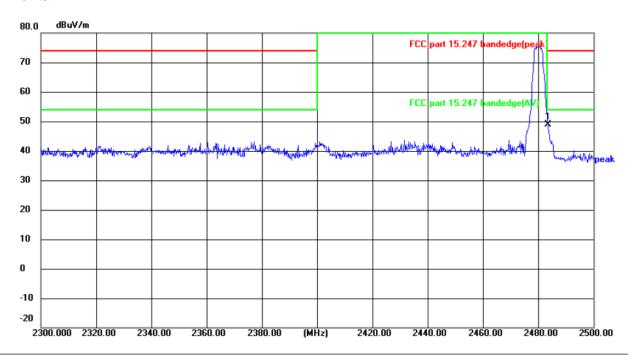
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	53.69	-14.99	38.70	74.00	-35.30	peak
2 *	2400.000	66.73	-14.95	51.78	74.00	-22.22	peak





Highest channel 2480:

Horizontal:

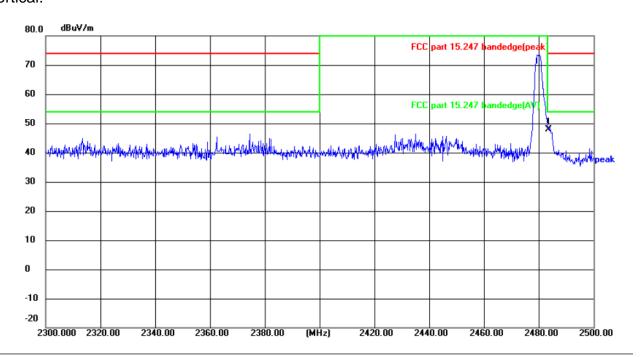


Site Polarization: Horizontal Temperature: 25(℃)
Limit: FCC part 15.247 bandedge(peak) Power: Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	63.58	-14.58	49.00	74.00	-25.00	peak







Site Polarization: Vertical Temperature: 25(°C)
Limit: FCC part 15.247 bandedge(peak) Power: Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	62.35	-14.58	47.77	74.00	-26.23	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)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Η	44.96		0.66	45.62		74	54	-8.38
7206	Н	34.15		9.50	43.65		74	54	-10.35
	Н								
4804	V	43.08		0.66	43.74		74	54	-10.26
7206	V	34.96	-420	9.50	44.46	(C) 1 -	74	54	-9.54
	V					<u></u>			

Middle cha	nnel: 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)	AV limit (dBµV/m)	Margin (dB)
4880	Η	44.23		0.99	45.22		74	54	-8.78
7320	Η	33.47		9.87	43.34		74	54	-10.66
	H		(^		/				
Į.			KO		· ·			(0)	
4880	٧	43.97)	0.99	44.96	}	74	54	-9.04
7320	V	33.08		9.87	42.95		74	54	-11.05
	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	Ŧ	46.24	+ 6	1.33	47.57	<u></u>	74	54	-6.43
7440	Н	37.28		10.22	47.50	-/	74	54	-6.50
	Н								
4960	V	47.07		1.33	48.40		74	54	-5.60
7440	V	37.14		10.22	47.36		74	54	-6.64
	V				J				

Note:

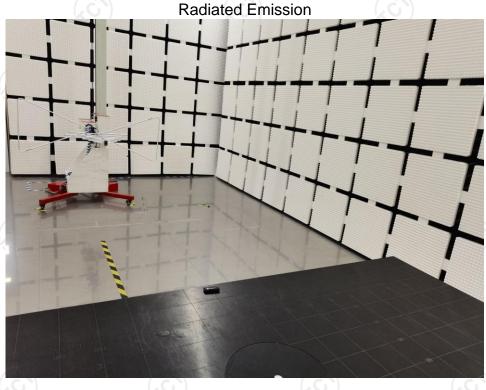
- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4.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

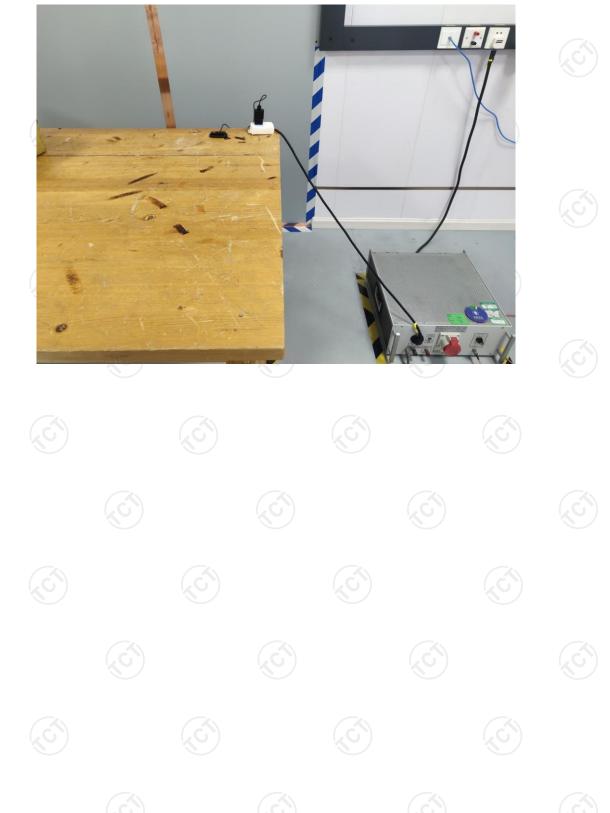
Product: Heart Rate Monitor Model: HRM308







Conducted Emission





Appendix B: Photographs of EUT Product: Heart Rate Monitor

Model: HRM308 External Photos



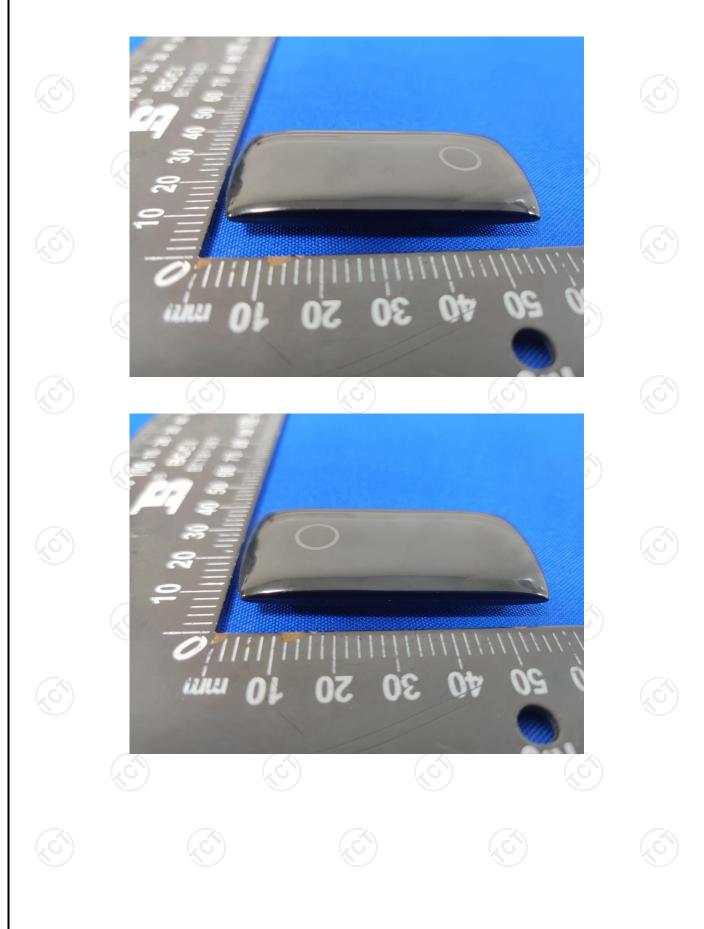


















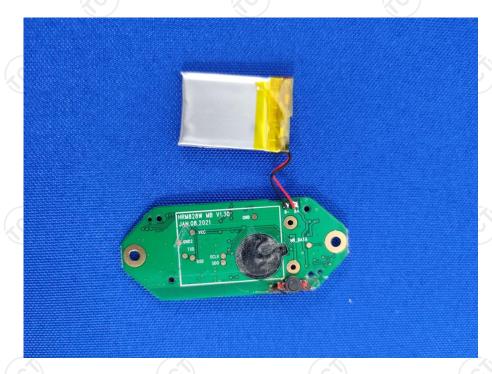
Product: Heart Rate Monitor Model: HRM308 Internal Photos











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