

TEST REPORT

Product Name	:	Tablet PC
Model Number	:	SJM2101
FCC ID	:	2A2SP-SJM

Prepared for Address	:	Smart Communications Holding, Inc. 10491 72nd Street, Seminole, FL 33777, USA
Prepared by Address	::	EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China
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Report Number	:	ENS2107220158W00102R
Date(s) of Tests	:	July 22, 2021 to August 26, 2021
Date of issue	:	August 26, 2021

维码\$

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1 TEST RESULT CERTIFICATION

Applicant	:	Smart Communications Holding, Inc.
Address	:	10491 72nd Street, Seminole, FL 33777, USA
Manufacturer	:	Smart Communications Holding, Inc.
Address	:	10491 72nd Street, Seminole, FL 33777, USA
EUT	:	Tablet PC
Model Name	:	SJM2101
Trademark	:	Smart Communications

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 2 , Subpart J FCC 47 CFR Part 15, Subpart C	PASS		

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247

The test results of this report relate only to the tested sample identified in this report

Date of Test :	July 22, 2021 to August 26, 2021		
Prepared by :	Mill Chen		
	Mill Chen /Editor		
Reviewer :	Sever ans in So		
	Sewen Guo /Supervisor		
Approve & Authorized Signer :	THE PESTING		

Lisa Wang/Manager

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2 EUT TECHNICAL DESCRIPTION

Product:	Tablet PC	
Model Number:	SJM2101	
Sample number:	2#	
Data Rate :	1Mbps	
Modulation:	Bluetooth DTS: GFSK	
Operating Frequency Range:	2402-2480MHz	
Number of Channels:	40 Channels for Bluetooth DTS;	
Transmit Power Max:	8.7dBm	
Antenna Type:	Internal Antenna	
Antenna Gain:	2.38 dBi	
Power supply:	DC5V from Adapter, DC 3.7V from internal battery	
Date of Received:	July 22, 2021	
Temperature Range:	0°C ~ +40°C	

Note: for more details, please refer to the User's manual of the EUT.



FCC Part Clause	Test Parameter	Verdict	Remark	
15.247(a)(2)	DTS (6dB) Bandwidth	PASS		
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS		
15.247(e)	Maximum Power Spectral Density Level	PASS		
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands	PASS		
15.247(d)	Unwanted Emission Into Restricted Frequency	PASS		
15.209	Bands (conducted)			
15.247(d)	Radiated Spurious Emission PASS			
15.209				
15.207	Conducted Emission Test	PASS		
15.247(b)	Antenna Application	PASS		
	NOTE1: N/A (Not Applicable)			
	NOTE2: According to FCC OET KDB 558074, the report use radiated			
	measurements in the restricted frequency bands. In addition, the radiated			
	test is also performed to ensure the emissions emanating from the device			
	cabinet also comply with the applicable limits.			

3 SUMMARY OF TEST RESULT

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2A2SP-SJM filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.



4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C FCC KDB 558074 D01 15.247 Meas Guidance v05r02

4.2 MEASUREMENT EQUIPMENT USED

Conducted Emission Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Test Receiver	Rohde & Schwarz	ESCI	101384	May 15, 2021	1 Year
L.I.S.N.	Rohde & Schwarz	ENV216	5	May 15, 2021	1 Year
L.I.S.N.	Kyoritsu	KNW-407	8-1492-9	May 15, 2021	1 Year
Absorbing Clamp	Rohde & Schwarz	MDS-21	833711/025	May 15, 2021	1 Year
Loop antenna	Laplace	RF300	8006	May 15, 2021	1 Year
Van der Hoofden test-head	Schwarzbeck	VDHH 9502	9502-054	May 15, 2021	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100107	May 15, 2021	1 Year

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	May 15, 2021	1 Year
Pre-Amplifie	Lunar EM	LNA30M3G-25	J1010000070	May 15, 2021	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	659	Sep 22, 2019	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1177	July 4, 2020	2 Year
Pre-Amplifie	SKET	LNPA_0118G-45	SK2019051801	May 15, 2021	1 Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	May 15, 2021	2 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	May 15, 2021	1 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1198	May 15, 2021	2 Year
Bilog Antenna	Schwarzbeck	VULB9163	660	May 15, 2021	2 Year
Cable	H+B	NmSm-05-C15052	N/A	May 15, 2021	1 Year
Cable	H+B	NmSm-2-C15201	N/A	May 15, 2021	1 Year
Cable	H+B	NmNm-7-C15702	N/A	May 15, 2021	1 Year
Cable	H+B	SAC-40G-1	414	May 15, 2021	1 Year
Cable	H+B	SUCOFLEX104	MY14871/4	May 15, 2021	
Cable	H+B	BLU18A-NmSm-650 0	D8501	May 15, 2021	1 Year
Band reject Filter(50dB)	WI/DE	WRCGV-2400(2400- 2485MHz)	2	May 15, 2021	1 Year

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Report No. ENS2107220158W00102R



Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Vector Signal Generater	Agilent	N5182B	My53050553	May 15, 2021	1 Year
Analog Signal Generator	Agilent	N5171B	My53050878	May 15, 2021	1 Year
Signal Analyzer	Agilent	N9010A	My53470879	May 15, 2021	1 Year
Power Analyzer	Agilent	PS-X10-200	N/A	May 15, 2021	1 Year
Wideband Radio Communication Tester	R&S	CMW500	1201.0002K50- 140822zk	May 15, 2021	1 Year
Test Accessories	Agilent	PS-X10-100	N/A	May 15, 2021	1 Year
Temperature&Humidity test chamber	ESPEC	EL-02KA	12107166	May 15, 2021	1 Year
Blocking Box	Agilent	AD211	N/A	May 15, 2021	1 Year

For other test items:



4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (Bluetooth DTS :1Mbps) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel	(MHZ) (MHZ) (MHZ)						
0	2402	19	2440				
1	2404	20	2442	37	2476		
2 2406 21 2444 38 2478							
				39	2480		
Note: fc=2402M	Note: fc=2402MHz+k×1MHz k=1 to 39						

Frequency and Channel list for Bluetooth DTS:

Note: $IC=2402MHZ+K\times IMHZ$ K=1 to 39

Test Frequency and channel for Bluetooth DTS:

Lowest F	Frequency	Middle F	Frequency	Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	39	2480



5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

EMTEK (Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
EMC Lab.	 Accredited by CNAS The Certificate Registration Number is L2291. The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)
	Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943
	Accredited by A2LA The Certificate Number is 4321.01.
	Accredited by Industry Canada The Conformity Assessment Body Identifier is CN0008
Name of Firm Site Location	 EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

深圳信测标准技术服务股份有限公司 地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn

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6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Parameter	Measurement Uncertainty
RF Output Power	±1.0 dB
Power Spectral Density	±0.9 dB
Duty Cycle and Tx-Sequence and Tx-Gap	±1.3 dB
Medium Utilisation Factor	±1.5 dB
Occupied Channel Bandwidth	±2.3 dB
Transmitter Unwanted Emission in the Out-of Band	±1.2 dB
Transmitter Unwanted Emissions in the Spurious Domain	±2.7 dB
Receiver Spurious Emissions	±2.7 dB
Temperature	±0.5℃
Humidity	±3%

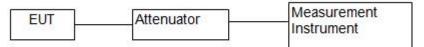
Measurement Uncertainty for a level of Confidence of 95%



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360° , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360° , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Measurements shall be taken, using the following steps, at a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment (see RSS-Gen for applicable versions of ANSI and CISPR standards). (1) Line the ground plane with absorbers between the transmitter and the receive antenna to minimize reflections. The absorbers used should have a minimum-rated attenuation of 20 dB through the measurement frequency range of interest. The absorbers shall be positioned to replicate the layout used when compliance with the applicable acceptability criterion was achieved, as set forth in the aforementioned standards on site validation.

(2) Set the height of the receive antenna to 1.5 m. The receive antenna must be one that was designed and fabricated to operate over the entire frequency range of interest, for example, an appropriate standard gain horn.

(3) The distance between the receive antenna and the radiating source shall be sufficient in order to ensure far-field conditions.

(4) Mount the transmitter at a height of 1.5 m.

(5) Configure the device under test (DUT) to produce the maximum power spectral density as measured while assessing compliance with Section 6.2.2 (i.e. channel frequency, modulation type and data rate). If the DUT is equipped with a detachable antenna and the antenna is intended for remote installation (i.e.



tower-mounted), the DUT may be substituted with a suitable signal generator. The level and frequency settings on the generator shall be set so as to reproduce the maximum power spectral density, measured within a 1 MHz bandwidth, obtained while assessing compliance to Section 6.2.2. (6) Position the transmitter or the radiating antenna so that elevation pattern measurements can be

taken. (7) Find the 0° reference point in the horizontal plane.

(8) Care should be taken when positioning the receive antenna to avoid cross-polarization. Antennas of known mounting polarization should be assessed with the receive antenna oriented in the same polarity. If the polarization of the transmit antenna is unknown or the transmit antenna can be mounted in either polarization, e.i.r.p. measurements should be performed to find which

mounting polarity provides the highest e.i.r.p. value. Testing shall be carried out with the receive antenna and the DUT mounted in each polarity.

(9) The emission shall be centred on the display of the spectrum analyzer with the following settings: i. If the power spectral density of the DUT was assessed with a peak detector and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

ii. If the power spectral density of the DUT was assessed using a sample detector with power averaging and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a sample detector, configured to produce 100 power averages and set with a resolution bandwidth, as well as a video bandwidth of 1 MHz.

iii. If the antenna can be detached from the DUT, a continuous wave (CW) signal equal to that of the power spectral density measurement may be used, the spectrum analyzer shall be set to peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

(10) Rotate the turntable 360° recording the field strength at each step. Throughout the main beam of the antenna, the step size shall be kept to a maximum of 1°.

Once outside the main beam of the antenna, the maximum step size shall be as follows, when compared to the requirements of Section 6.2.2:

i. Between 0° and 8°, maximum step size of 2°;

ii. Between 8° and 40°, maximum step size of 4°;

iii. Between 40° and 45°, maximum step size of 1°;

iv. Between 45° and 90°, maximum step size of 5°.

Once the mask reaches 90°, the mask will be inverted and the step size will follow in the same manner as above.

For the purpose of this procedure, the main beam of the antenna is defined as the 3 dB beamwidth. (11) Convert the measured field strength values in terms of e.i.r.p. density (dBW/1 MHz) using the following equation:

e.i.r.p density(dBW/MHz)=10log((E*r)²/30)

E = field strength in V/m

r = measurement distance in metres

(12) Plot the results against the emission mask with reference to the horizontal plane.

(13) Using the plot, the 0° can be rotated to determine the worst-case installation tilt angle.

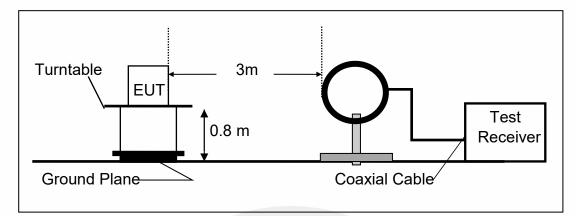
(14) Testing shall be performed using the highest gain antenna for every antenna type, if applicable.

(15) Antenna type(s), antenna model number(s), and worst-case tilt angle(s) necessary to remain

compliant with the elevation mask requirement set forth in Section 6.2.2(3) of RSS-247 shall be clearly indicated in the user manual.

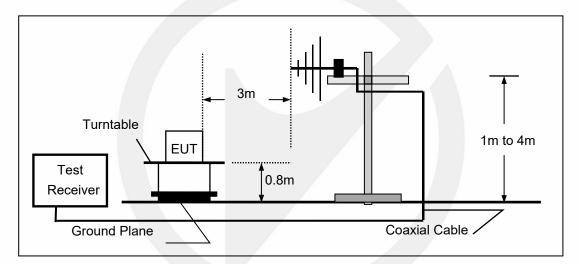
The following figure is an example of a polar elevation mask measured using the Method 1 reference to $dB\mu V/m$ at 3 m.



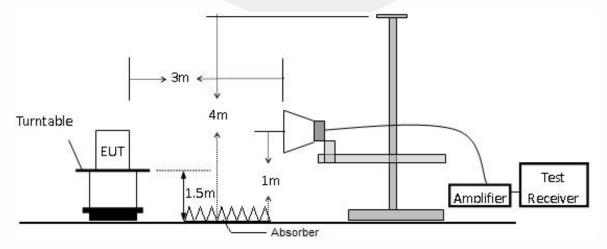


(a) Radiated Emission Test Set-Up, Frequency Below 30MHz

(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



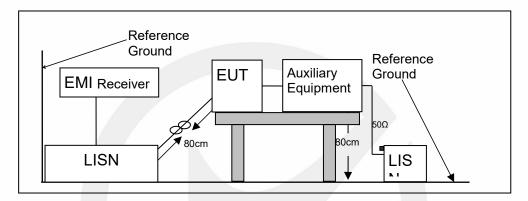


7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN. Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same

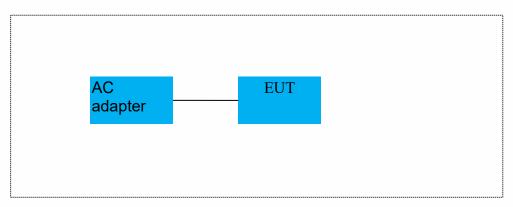
length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.8 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
1	1	1	/

Cable Description Length (m) Shielded/Unshielded With / Without Ferrite	Auxiliary Cable List and Details				
	Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	
	/	1	1	/	

Auxiliary Equipment List and	Details		
Description	Manufacturer	Model	Serial Number
Notebook	acer	ZR1	LXTECOCO76643158 372500

Notes:

- *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.



8 TEST REQUIREMENTS

8.1 DTS 6DB BANDWIDTH

8.1.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.1.2 Conformance Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.1.4 Test Procedure

The EUT was operating in Bluetooth mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

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.

Set the video bandwidth (VBW) =300 kHz.

Set Span=2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

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

Measure and record the results in the test report.

Test Results

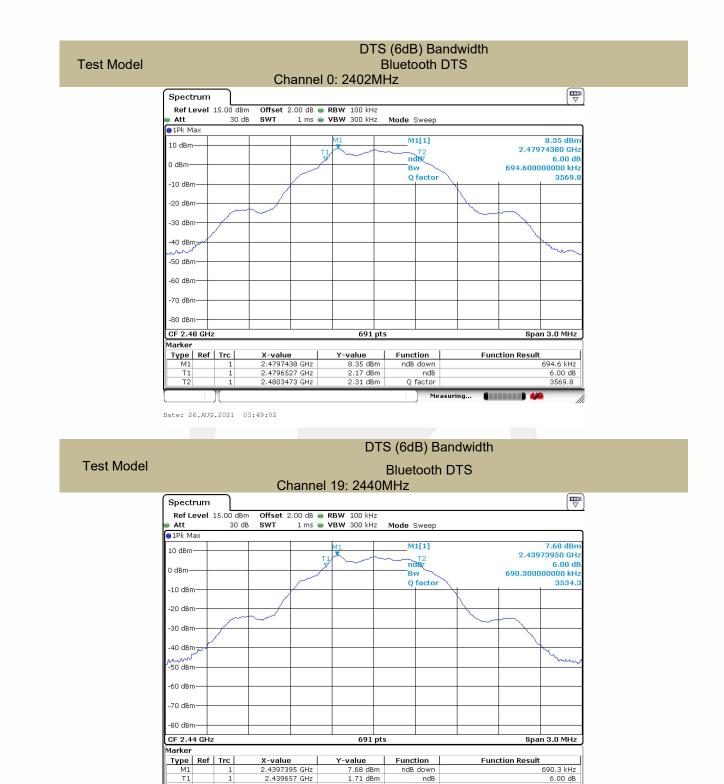
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Bandwidth (MHz)	Limit (kHz)	Verdict
	0	2402	694.6	>500	PASS
Bluetooth DTS	19	2440	690.3	>500	PASS
	39	2480	690.3	>500	PASS

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Date: 26.AUG.2021 03:49:31

M1 T1

Τ2

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2.4403473 GHz

Report No. ENS2107220158W00102R

7.68 dBm 1.71 dBm

1.62 dBm

ndB

Measuring...

Q factor

Ver. 1.0

690.3 kHz

6.00 dB 3534.3

(....) 🚧



DTS (6dB) Bandwidth **Test Model Bluetooth DTS** Channel 39: 2480MHz Spectrum Offset 2.00 dB 🖷 RBW 100 kHz Ref Level 15.00 dBm 1 ms 👄 VBW 300 kHz 30 dB SWT Mode Sweep Att ●1Pk Ma× M1[1] 6.72 dBn 10 dBm 2.40174820 GHz т ndla2 6.00 dB 690.300000000 kHz 0 dBm Bw Q factor 3479.3 -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm--60 dBm -70 dBm -80 dBm-CF 2.402 GHz 691 pts Span 3.0 MHz Marker Type Ref Trc M1 1 T1 1 T2 1 X-value 2.4017482 GHz 2.401657 GHz 2.4023473 GHz **Y-value** 6.72 dBm 0.60 dBm Function Function Result 690.3 kHz 6.00 dB 3479.3 ndB down ndB Q factor 0.69 dBm Measuring...

Date: 26.AUG.2021 03:50:15



8.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

8.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.2.4 Test Procedure

According to FCC Part15.247(b)(3)

As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. For smart system, Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Set the RBW \geq DTS bandwidth(about 1MHz).

Set VBW =3*RBW(about 3MHz)

Set the span $\geq 3^{*}RBW$

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

According to FCC Part 15.247(b)(4):

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



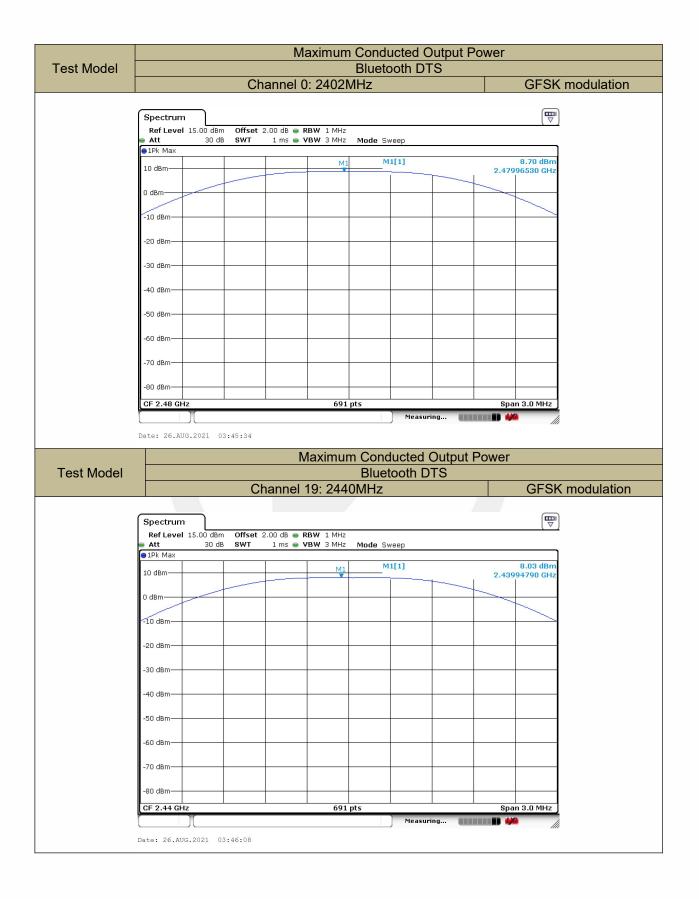
8.2.5 Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

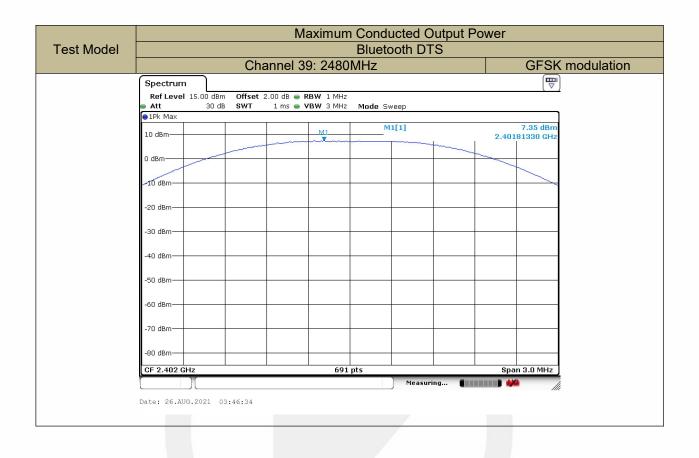
Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)	Limit (dBm)	Verdict
Dhuadaadh	0	2402	8.7	30	PASS
Bluetooth DTS	19	2440	8.03	30	PASS
	39	2480	7.35	30	PASS













8.3 MAXIMUM POWER SPECTRAL DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.3.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

8.3.5 Test Results

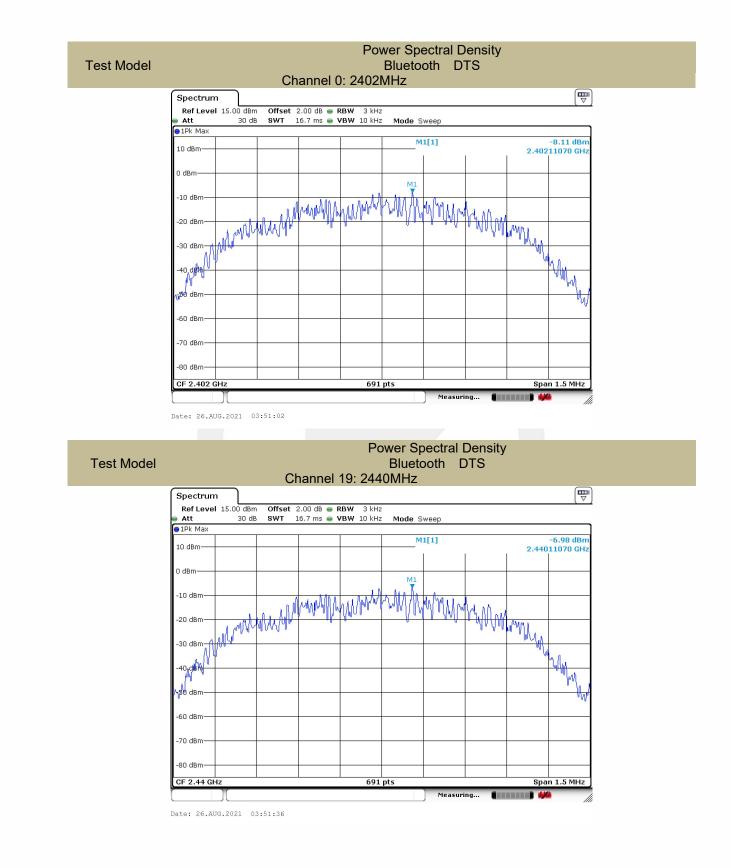
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
	0	2402	-8.11	<8	PASS
Bluetooth DTS	19	2440	-6.98	<8	PASS
	39	2480	-6.21	<8	PASS

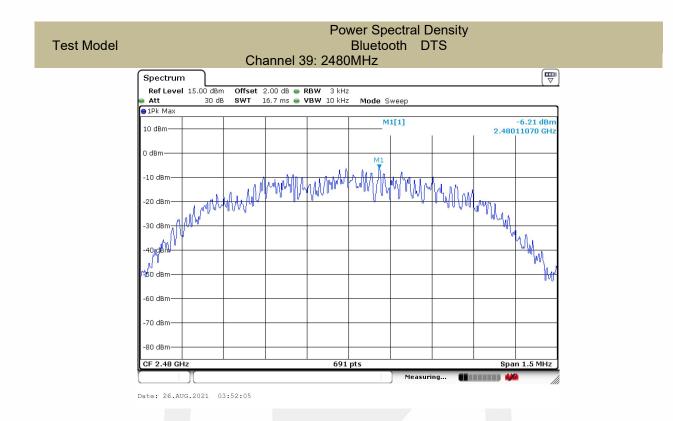
深圳信测标准技术服务股份有限公司地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn

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8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to = 1.5 times the DTS bandwidth.

Set the \overrightarrow{RBW} = 100 kHz.

Set the VBW \geq 3 x RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW =300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

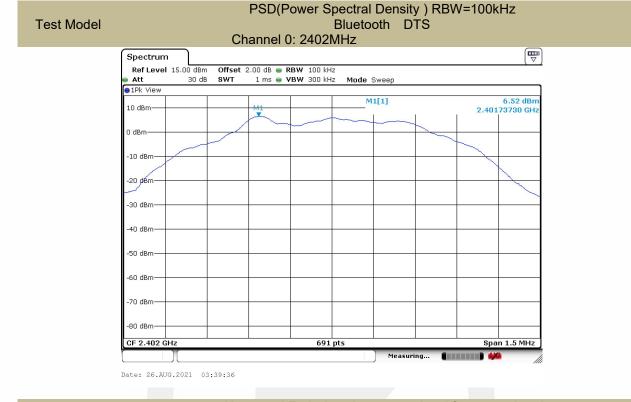
8.4.5 Test Results

Temperature:	26° C			
Relative Humidity:	54%			
ATM Pressure:	1011 mbar			

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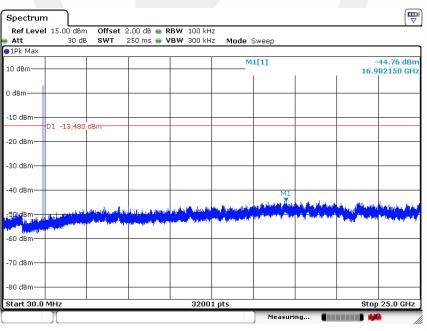
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Test Model

Unwanted Emissions in non-restricted frequency bands Bluetooth DTS Channel 0: 2402MHz

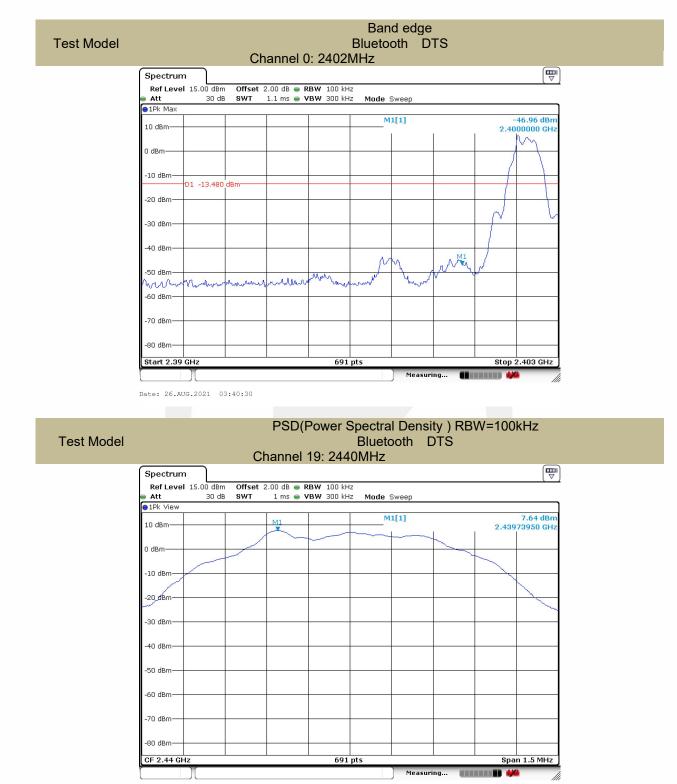


Date: 26.AUG.2021 03:41:09

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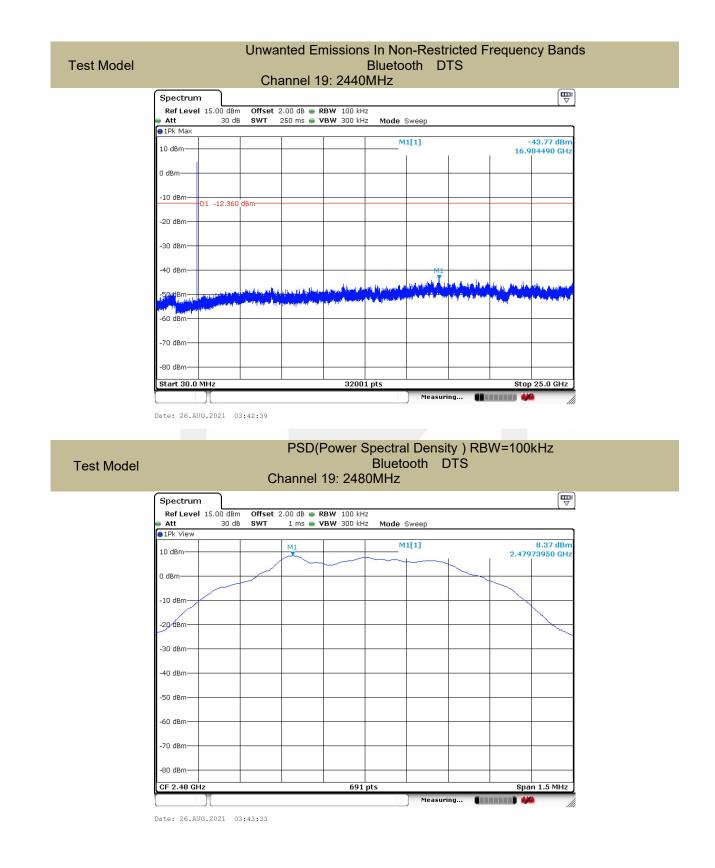
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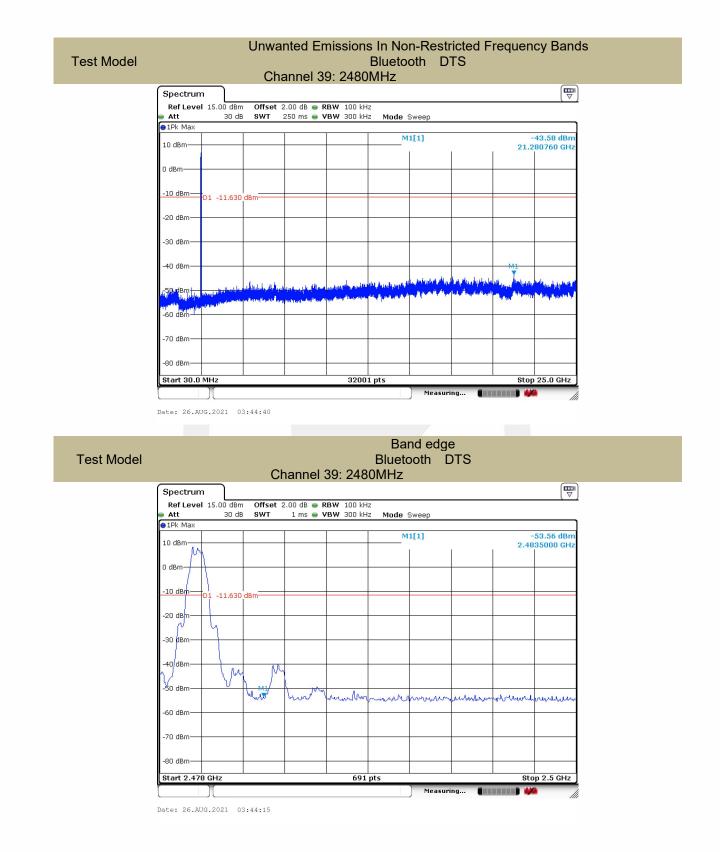


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8.5 RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

8.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to 1 00 1 art 10	.200, 1003010100 band3		
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted	Field Strength (µV/m)	Field Strength	Measurement
Frequency(MHz)		(dBµV/m)	Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for f \geq 1 GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz) VBW \geq RBW

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Sweep = auto Detector function = peak Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.5.5 Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Spurious Emission below 30MHz (9KHz to 30MHz)

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK AV		PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor



Spurious Emission Above 1GHz (1GHz to 25GHz)

Bluetooth DTS mode have been tested, and the worst result was report as below:

Test mode:	BLE	(1M)	Freque	ency:	y: Channel 0: 2402MHz			
Freq. (MHz)	Ant.Pol.		ssion BuV/m)	Limit 3m((dBuV/m)	Ove	er(dB)	
(11112)	H/V	PK	AV	PK	AV	PK	AV	
31.4267	V	24.84	21.33	74	54	-49.16	-32.67	
216.024	V	20.58	27.15	74	54	-53.42	-26.85	
384.1001	V	22.55	31.55	74	54	-51.45	-22.45	
43.908	Н	15.74	36.45	74	54	-58.26	-17.55	
384.1001	Н	28.24	33.30	74	54	-45.76	-20.70	
792.0062	Н	39.91	39.54	74	54	-34.09	-14.46	

Test mode:

BLE(1M)

Frequency:

Channel 19: 2440MHz

Freq. (MHz)	Ant.Pol.		ssion BuV/m)	Limit 3m	(dBuV/m)	Ove	er(dB)
(101112)	H/V	PK	AV	PK	AV	PK	AV
31.4681	V	22.93	15.75	74	54	-51.07	-38.25
155.9785	V	19.27	20.64	74	54	-54.73	-33.36
336.0352	V	26.42	33.98	74	54	-47.58	-20.02
46.1578	Н	16.13	36.60	74	54	-57.87	-17.40
384.1001	н	28.45	30.76	74	54	-45.55	-23.24
792.0062	Н	39.45	39.90	74	54	-34.55	-14.10

Test mode:

BLE(1M)

Frequency:

Channel 39: 2480MHz

Freq.	Ant.Pol.		ssion BuV/m)	Limit 3m	(dBuV/m)	Ove	er(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
31.4681	V	22.53	16.38	74	54	-51.47	-37.62
155.9785	V	20.23	19.61	74	54	-53.77	-34.39
336.0352	V	27.48	31.81	74	54	-46.52	-22.19
44.2558	Н	15.53	36.66	74	54	-58.47	-17.34
384.1001	Н	28.39	26.65	74	54	-45.61	-27.35
792.0062	Н	39.43	39.67	74	54	-34.57	-14.33

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2389.470	Н	49.07	74	32.66	54
2386.430	V	45.67	74	28.13	54

Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.745	Н	48.21	74	31.49	54
2483.914	V	46.88	74	29.73	54

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp

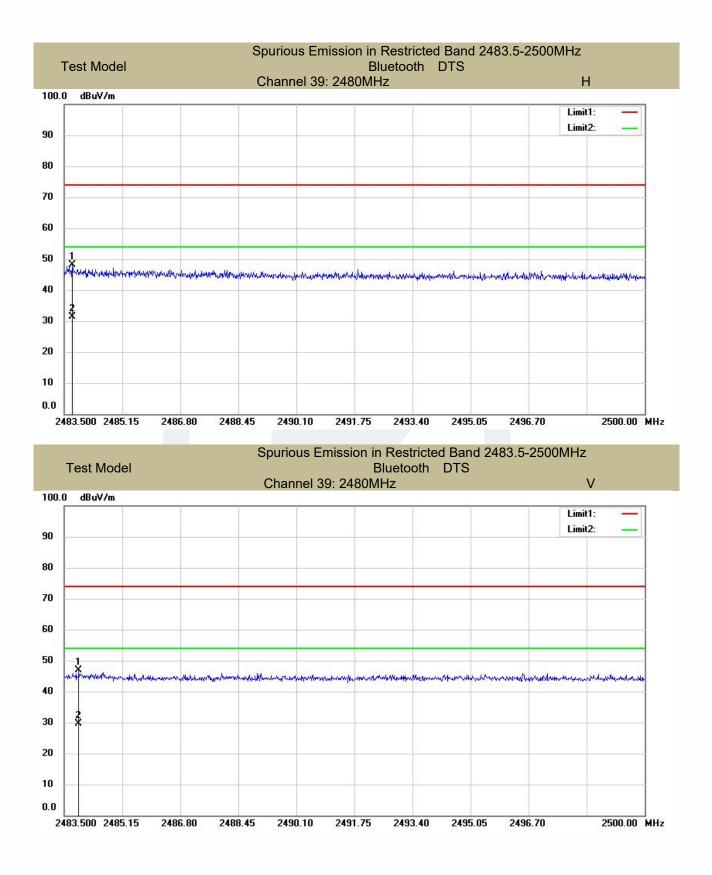
(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Spurious Emission in Restricted Band 2310-2390MHz **Test Model** Bluetooth DTS Н Channel 0: 2402MHz 100.0 dBuV/m Limit1: Limit2: 90 80 70 60 50 www.manualalandahanahan Adam have been a september of the beautiful sto Arutherially a panto the Mr. Hale rates to 40 30 20 10 0.0 2390.00 MHz 2310.000 2318.00 2326.00 2342.00 2350.00 2358.00 2366.00 2374.00 2334.00 Spurious Emission in Restricted Band 2310-2390MHz Test Model Bluetooth DTS Channel 0: 2402MHz V 100.0 dBuV/m Limit1: Limit2: 90 80 70 60 50 a developed atom where the short where filling tothers 40 30 20 10 0.0 2310.000 2318.00 2326.00 2334.00 2342.00 2350.00 2358.00 2366.00 2374.00 2390.00 MHz

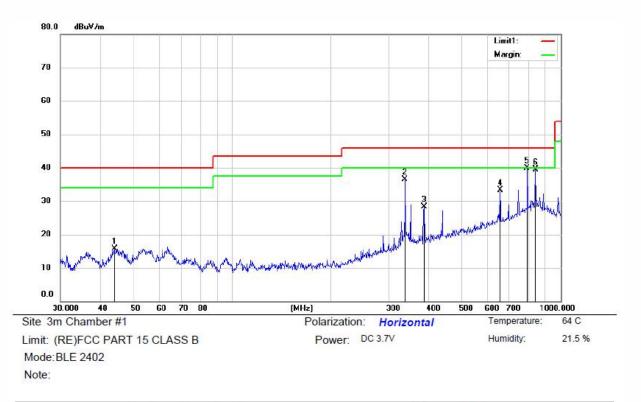
All the modulation modes were tested, the data of the worst mode are described in the following table





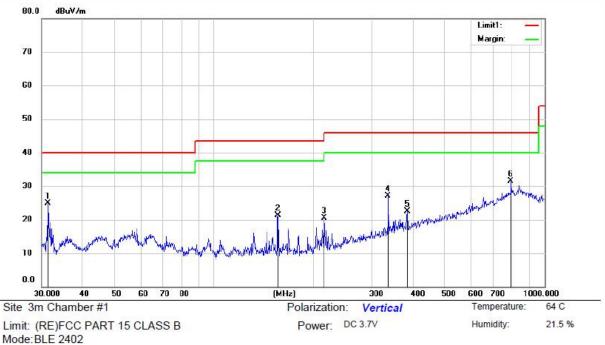


Spurious Emission below 1GHz (30MHz to 1GHz) All modes have been tested, and the worst result recorded was report as below:



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		43.9080	<mark>31.18</mark>	-15.44	15.74	40.00	-24.26	QP			
2		336.0352	48.07	- <mark>1</mark> 1.62	36.45	46.00	-9.55	QP			
3	1	384.1001	38.27	-10.03	28.24	46.00	-17.76	QP			
4		656.2423	37.00	-3.70	33.30	46.00	-12.70	QP			
5	*	792.0062	39.75	0.16	39.91	46.00	-6.09	QP			
6		840.2860	38.47	1.07	39.54	46.00	-6.46	QP			

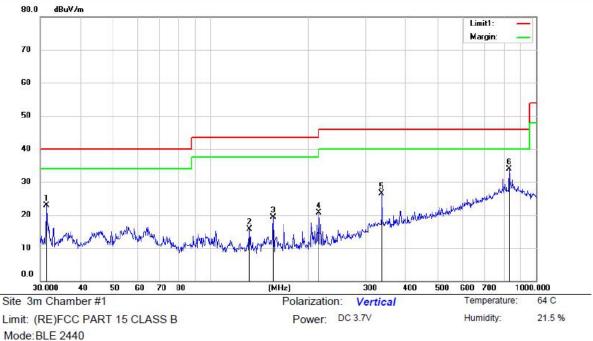




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Note:
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No.	<mark>M</mark> k	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	1	31.4267	41.98	-17.14	24.84	40. <mark>0</mark> 0	- <mark>15</mark> .16	QP			
2		155.9785	38.63	-17.30	21.33	43.50	-22.17	QP			
3		216.0240	37.31	-16.73	20.58	46.00	-25.42	QP			
4		336.0352	38.77	-11.62	27.15	<u>46.00</u>	- <mark>18.85</mark>	QP			
5		384.1001	32.58	-10.03	22.55	46.00	-23.45	QP			
6	*	792.0062	31.39	0.16	31.55	46.00	-14.45	QP			

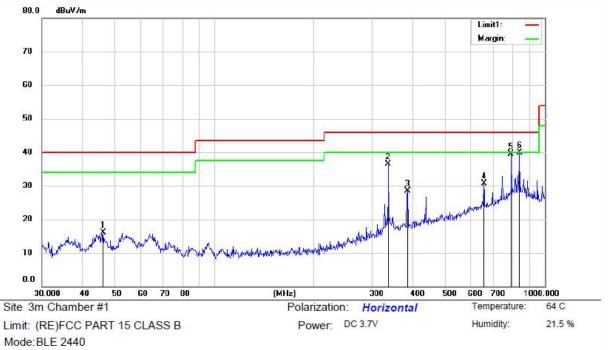




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Note:
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		31.4681	40.07	-17.14	22.93	40.00	- <mark>17.07</mark>	QP			
2		131.9890	33.19	-17. <mark>44</mark>	15.75	43.50	-27.75	QP			
3		155.9785	36.57	-17.30	19.27	43.50	-24.23	QP			
4		216.0240	37.37	-16.73	20.64	46.00	-25.36	QP			
5		336.0352	38.04	-11.62	26.42	46.00	-19.58	QP			
6	*	829.3090	33.34	0.64	33.98	46.00	-12.02	QP			

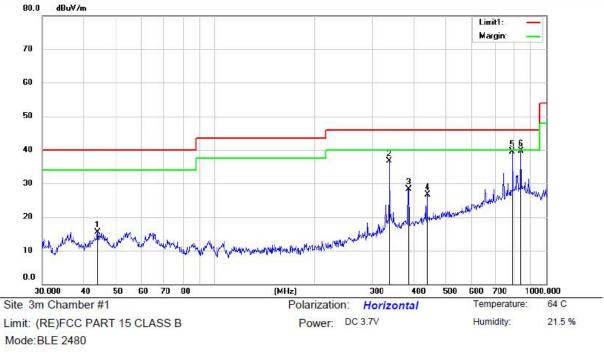




Note:

No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		46.1578	31.37	-15.24	16.13	40.00	-23.87	QP			
2		336.0352	48.22	-11.62	36.60	46.00	-9.40	QP			
3		384.1001	38.48	-10.03	28.45	46.00	-17.55	QP			
4		656.2423	34.46	-3.70	30.76	46.00	-15.24	QP			
5		792.0062	39.29	0.16	39.45	46.00	-6.55	QP			
6	*	840.2860	38.83	1.07	39.90	46.00	-6.10	QP			

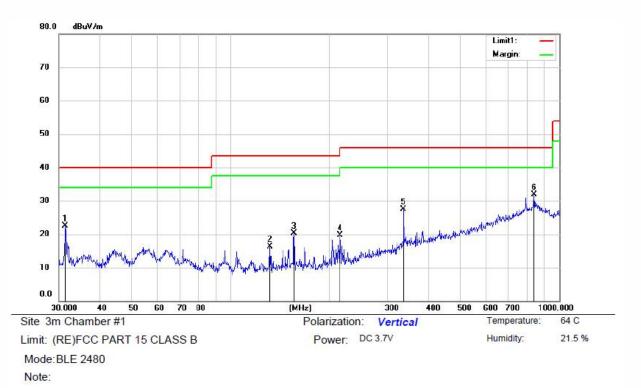




Note:

No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		44.2558	30.93	-15.40	15.53	40.00	-24.47	QP			
2		336.0352	48.28	-11.62	36.66	46.00	-9.34	QP			
3		384.1001	38.42	-10.03	28.39	46.00	-17.61	QP			
4		438.0790	35.24	-8.59	26.65	46.00	-19.35	QP			
5		792.0062	39.27	0.16	39.43	46.00	-6.57	QP			
6	*	840.2860	38.60	1.07	39.67	46.00	-6.33	QP			





No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		31.4681	39.67	-17.14	22.53	40.00	-17.47	QP			
2	1	131.9890	33.82	-17.44	16.38	43.50	-27.12	QP			
3	8	155.9785	37.53	-17.30	20.23	43.50	-23.27	QP			
4	1	216.0240	36.34	-16.73	19.61	46.00	-26.39	QP			
5	ŝ	336.0352	39.10	- <mark>11.62</mark>	27.48	46.00	-18.52	QP			
6	*	840.2860	30.74	1.07	31.81	46.00	-14.19	QP			



8.6 CONDUCTED EMISSIONS TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Co	nducted Emission Limit	
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

8.6.4 Test Procedure

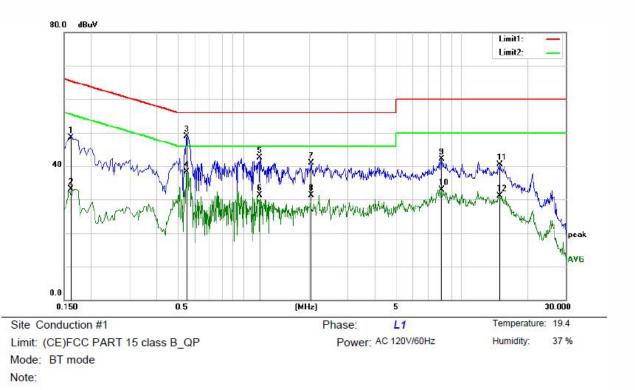
The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

Pass

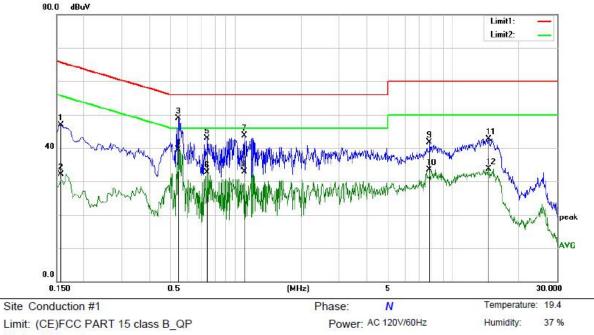
The AC120V &240V voltagehave been tested, and the worst result recorded was report as below:





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	38.98	9.54	48.52	65.36	-16.84	QP	
2		0.1620	23.63	9.54	33.17	55.36	-22.19	AVG	
3	*	0.5500	39.65	9.26	48.91	56.00	-7.09	QP	
4		0.5500	29.00	9.26	38.26	46.00	-7.74	AVG	
5		1.1860	32.65	9.91	42.56	56.00	-13.44	QP	
6		1.1860	21.44	9.91	31.35	46.00	-14.65	AVG	
7		2.0460	30.89	9.94	40.83	56.00	-15.17	QP	
8		2.0460	21.32	9.94	31.26	46.00	-14.74	AVG	
9		8.1420	32.00	10.08	42.08	60.00	-17.92	QP	
10		8.1420	22.83	10.08	32.91	50.00	-17.09	AVG	
11	2	15.0380	30.42	10.17	40.59	60.00	-19.41	QP	
12	2	15.0380	20.93	10.17	31.10	50.00	-18.90	AVG	





Limit: (CE)FCC PART 15 class B_QP Mode: BT mode Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	37.37	9.55	46.92	65.57	- <mark>18.6</mark> 5	QP	
2		0.1580	22.53	9.55	32.08	55.57	-23.49	AVG	
3		0.5460	39.58	9.26	48.84	56.00	-7.16	QP	
4	*	0.5460	30.34	9.26	39.60	46.00	-6.40	AVG	
5		0.7420	33.53	9.37	42.90	56.00	-13.10	QP	
6		0.7420	23.33	9.37	32.70	46.00	-13.30	AVG	
7	(1.0980	33.86	9.90	43.76	56.00	-12.24	QP	
8		1.0980	22.97	9.90	32.87	46.00	-13.13	AVG	
9		7.7900	31.58	10.06	41.64	60.00	-18.36	QP	
10		7.7900	23.38	10.06	33.44	50.00	-16.56	AVG	
11		14.5700	32.62	10.17	42.79	60.00	-17.21	QP	
12		14.5700	23.61	10.17	33.78	50.00	-16.22	AVG	



8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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 transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2 Result

PASS.

Note:

The EUT has 1 antenna: a internal Antenna for BLE with classic model, the gain is 2.38 dBi;

- \boxtimes Antenna use a permanently attached antenna which is not replaceable.
- Not using a standard antenna jack or electrical connector for antenna replacement
- The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.



diated emission			
Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
20.6	0.03	\	20.63
20.7	0.1	1	20.8
20.9	0.15	1	21.05
20.1	0.28	1	20.38
18.8	0.45	1	19.25
11.7	0.62	27.9	-15.58
12.5	1.02	27.8	-14.28
12.9	1.91	27.5	-12.69
19.2	2.92	27	-4.88
21.1	3.54	26.6	-1.96
22.3	4.17	26.2	0.27
25.6	1.76	41.4	-14.04
28.9	3.27	43.2	-11.03
31.1	4.2	44.6	-9.3
36.2	5.95	44.7	-2.55
38.4	6.3	43.9	0.8
38.5	7.14	42.3	3.34
40.2	8.15	41.4	6.95
45.4	9.02	41.3	13.12
	/		
37.9	1.81	47.9	-8.19
37.9	1.95	48.7	-8.85
39.3	2.01	42.8	-1.49
39.6	2.16	46.0	-4.24
41.2	2.24	44.5	-1.06
41.5	2.29	46.6	-2.81
43.8	2.30	46.4	-0.3
43.2	2.50	42.2	3.5
	Ant_F(dB) 20.6 20.7 20.9 20.1 18.8 11.7 12.5 12.9 19.2 21.1 22.3 25.6 28.9 31.1 36.2 38.4 38.5 40.2 45.4 37.9 37.9 39.3 39.6 41.2 41.5 43.8	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Ant F(dB)Cab L(dB)Preamp(dB)20.6 0.03 \20.7 0.1 \backslash 20.9 0.15 \backslash 20.1 0.28 \backslash 18.8 0.45 \backslash 11.7 0.62 27.9 12.5 1.02 27.8 12.9 1.91 27.5 19.2 2.92 27 21.1 3.54 26.6 22.3 4.17 26.2 25.6 1.76 41.4 28.9 3.27 43.2 31.1 4.2 44.6 36.2 5.95 44.7 38.4 6.3 43.9 38.5 7.14 42.3 40.2 8.15 41.4 45.4 9.02 41.3 37.9 1.81 47.9 37.9 1.81 47.9 37.9 1.22 2.24 44.5 41.5 2.29 46.6 43.8 2.30

Detail of factor for radiated emission

----- END OF REPORT ------