

TEST REPORT

Product Name Model Numbe Contains FCC	er	·		
Prepared for Address	:	Chengdu Vantron Technology Co., Ltd. lo.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan P.R. China		
Prepared by : Address :		EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Tel: (0755) 26954280 Fax: (0755) 26954282		
•		ENS2310310032W00101R October 31, 2023 to December 4, 2023 December 4, 2023		



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1 TEST RESULT CERTIFICATION

Applicant	:	Chengdu Vantron Technology Co., Ltd.			
Address	:	No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China			
Manufacturer	:	Chengdu Vantron Technology Co., Ltd.			
Address	:	No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China			
EUT	:	Media Player			
Model Name	:	9401-2HDT-V01, 9401-3HDT-V01			
Trademark	:	Vantron			

Measurement Procedure Used:

APPLICABLE STANDARDS					
STANDARD	TEST RESULT				
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS				
IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 2(02-2017)	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, Part 15.247, IC RSS-247 Issue 2 and IC RSS-GEN, Issue 5.

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

Date of Test :

October 31, 2023 to December 4, 2023

Prepared by :

Una Yu/Editor

Reviewer :

Joe Xia/Supervisor

it

Approve & Authorized Signer :

Lisa Wang/Manager

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Report No. ENS2310310032W00101R



Modified History

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2310310032W00101R	/	Original Report
external ant Change Pol Radiated Sp	hange is to request approval for enna, According to the requirem icy v06,the antenna types are di purious Emission tests were perf emained unchanged based on th	ents for antenna Change fferent and the gain va ormed to verify RF comp	e in KDB178919 D01 Permissive lue is smaller than the original, bliance, and the results of other



2 EUT TECHNICAL DESCRIPTION

Characteristics	Description		
Product:	Media Player		
Model Number:	9401-2HDT-V01, 9401-3HDT-V01 (The 9401-3HDT-V01 has three HDBase-T ports, and the 9401-2HDT-V01 has two HDBase-T ports. Product schematic, PCB Layout, appearance are consistent)		
Sample number:	2#		
Data Rate :	1Mbps		
Device Type:	Bluetooth V5.0		
Modulation:	GFSK		
Operating Frequency Range:	2402-2480MHz		
Number of Channels:	40 Channels		
Antenna Type:	External Antenna		
Antenna Gain:	1.8 dBi		
Power Supply:	DC 19V from adapter		
Adapter:	MODEL:FJ-SW20171903420 INPUT:AC 100-240V~50/60Hz 1.5A Max OUTPUT:19V, 3.42A 64.98W		
Test voltage:	AC 120V/60Hz		
Date of Received:	October 31, 2023		
Temperature Range:	0-35 ℃		

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

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3 SUMMARY OF TEST RESULT

FCC PartClause	IC Part Clause	Test Parameter	Verdict	Remark						
15.247(d) 15.209 15.205	RSS-Gen8.9 RSS-Gen8.10 RSS-Gen6.13 RSS-2473.3 RSS-2475.5	Radiated Spurious Emission	PASS							
NOTE2:Accord restricted frequ	ding to FCC OET K uency bands. In add	dition, the radiated test is also performed to	o ensure th	RSS-2475.5 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.						

RELATED SUBMITTAL(S)/GRANT(S):

This submittal(s) (test report) is intended for **ContainsFCC ID:2AAGE9260NG** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.



TEST METHODOLOGY 4

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 IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 2(02-2017) FCC KDB 558074 D01 15.247 Meas Guidance v05r02

4.2 MEASUREMENT EQUIPMENT USED

Conducted Emission Test Equipment

Equipment	Equipment Manufacturer		Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2023/5/13	1Year
AMN	Rohde & Schwarz	ENV216	101161	2023/5/13	1Year
AMN	Kyoritsu	KNW-407	8-1492-9	2023/5/11	1Year

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Pre-Amplifier	HP	8447F	2944A07999	2023/5/13	1Year
EMI Test Receiver	Rohde & Schwarz	ESCI	101414	2023/5/13	1Year
Bilog Antenna	Schwarzbeck	VULB9163	712	2023/7/2	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1198	2023/6/2	2 Year
Pre-Amplifie	CDSI	PAP-1.0G18	23589	2023/5/10	1Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2023/5/10	1Year
Horn antenna	Schwarzbeck	BBHA9170 9170-399		2023/5/12	2 Year
Cable	H+B	NmSm-05-C15052	N/A	2023/5/13	1 Year
Cable	H+B	NmSm-2-C15201	N/A	2023/5/13	1 Year
Cable	H+B	NmNm-7-C15702	N/A	2023/5/13	1 Year
Cable	H+B	SAC-40G-1	414	2023/5/13	1 Year
Cable	H+B	SUCOFLEX104	MY14871/4	2023/5/13	1 Year
Cable	H+B	BLU18A-NmSm-650 0	D8501	2023/5/13	1 Year
Band reject Filter(50dB)	WI/DE	WRCGV-2400(2400- 2485MHz)	2	2023/5/13	1 Year

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Equipment	Manufacturer	facturer Model No. Serial No.		Last Cal.	Cal. Interval	
Signal Analyzer	Agilent	N9010A	N9010A MY53470879		1Year	
Vector Signal Generater	Agilent	N5182B	MY53050878	2023/5/10	1Year	
Analog Signal Generator	Agilent	N5171B	MY53050553	2023/5/10	1Year	
RF Control Unit(Power Meter)	Tonscend	JS0806-2	/	2023/5/13	1Year	
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2023/5/10	1 Year	



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

Frequency and Channel list for Bluetooth DTS:

Test Frequency and channel for Bluetooth DTS:

Lowest F	requency	Middle F	requency	Highest 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
	 EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

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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
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5°C
Humidity	±3%

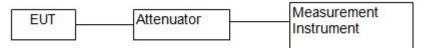
Measurement Uncertainty for a level of Confidence of 95%



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The Bluetoothcomponent'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.

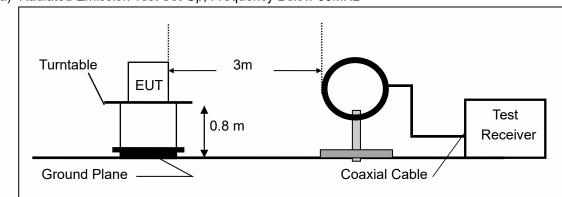
(15) Antenna type(s), antenna model number(s), and worst-case tilt angle(s) necessary to remain

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.

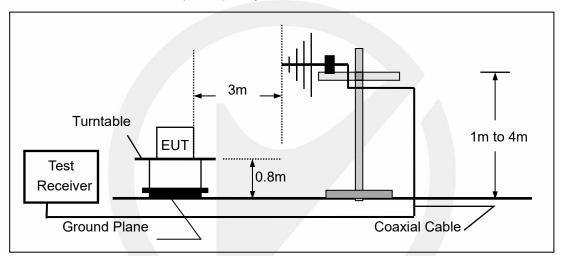
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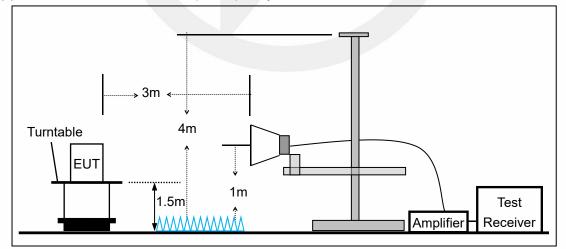


(a) Radiated Emission Test Set-Up, Frequency Below 30MHz

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



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



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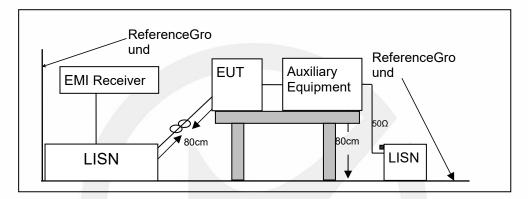


7.3 CONDUCTED EMISSION TEST SETUP

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

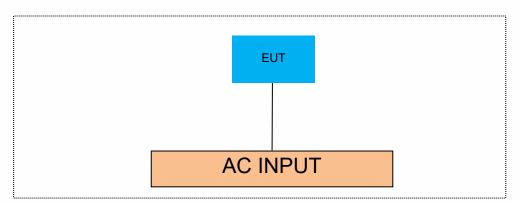
point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.8 m.

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	/			

Auxiliary Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	
1	1	1	1	

Auxiliary Equipment List and Details							
Description	Model	Serial Number					
1	/	1	1				

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.

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7.6 RADIATED SPURIOUS EMISSION

7.6.1 Applicable Standard

According to FCC Part 15.247(d),15.205, 15.209 and KDB 558074 D01 15.247 Meas Guidancev05r02 According to IC RSS-Gen and RSS-247

7.6.2 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 IC RSS-Gen 6.13: radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits.

According to IC RSS-Gen 6.13, Restricted bands

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

According to IC RSS-Gen, 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

7.6.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

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7.6.4 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 $f \ge 1$ GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz)

 $\mathsf{VBW} \geq \mathsf{RBW}$

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.

7.6.5 Test Results

Temperature:	22° C
Relative Humidity:	43%
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 È	ÁÝ	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

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

All the antenna(Antenna 1) and modes(BLE_1M) mode have been tested, and the worst(Antenna 1,BLE_1M) resultrecorded was report as below:

Test mode:	BLE_1M		Frequency: Channel			0: 2402MHz	
Freq.	Ant.Pol.	Emis Level(d	sion BuV/m)	Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
11510.62	V	60.51	46.73	74.00	54.00	-13.49	-7.27
14658.75	V	62.26	45.58	74.00	54.00	-11.74	-8.42
17636.25	V	67.53	46.20	74.00	54.00	-6.47	-7.80
11302.5	Н	59.93	46.29	74.00	54.00	-14.07	-7.71
14645.62	Н	63.16	46.30	74.00	54.00	-10.84	-7.70
17606.25	Н	67.61	47.13	74.00	54.00	-6.39	-6.87

Test mode: E

BLE_1M

Frequency:

Channel 19: 2440MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
11508.75	V	59.82	46.76	74.00	54.00	-14.18	-7.24
14647.5	V	62.93	46.27	74.00	54.00	-11.07	-7.73
17600.62	V	67.26	47.34	74.00	54.00	-6.74	-6.66
11351.25	Н	59.73	46.03	74.00	54.00	-14.27	-7.97
14604.37	Н	62.88	47.22	74.00	54.00	-11.12	-6.78
17596.87	Н	67.10	47.35	74.00	54.00	-6.90	-6.65

Test mode:

BLE_1M

Frequency: Channe

Channel 39: 2480MHz

Freq.	Ant.Pol.		ssion BuV/m)	Limit 3m((dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
11536.87	V	59.81	46.38	74.00	54.00	-14.19	7.62	
14608.12	V	62.16	47.33	74.00	54.00	-11.84	-6.67	
17617.5	V	67.62	47.10	74.00	54.00	-6.38	-6.90	
11463.75	Н	59.66	47.08	74.00	54.00	-14.34	-6.92	
14595	Н	63.59	47.04	74.00	54.00	-10.41	-6.96	
17610	Н	67.59	47.08	74.00	54.00	-6.41	-6.92	

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

All the antenna(Antenna 1) and modes(BLE_1M) mode have been tested, and the worst(Antenna 1,BLE_1M) resultrecorded was report as below:

Test mode:	BLE_1M	Frequ	ency: (Channel 0: 2402M	Hz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2322.83	Н	44.98	74.00	42.85	54.00
2319.84	V	45.37	74.00	42.81	54.00

Test mode:	BLE_1M	Frequ	ency: (Channel 39: 2480N	ИНz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2484.88	н	46.87	74.00	43.57	54.00
2488.42	V	45.93	74.00	43.53	54.00

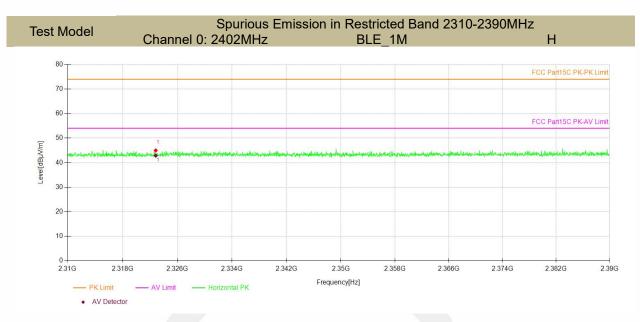
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

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

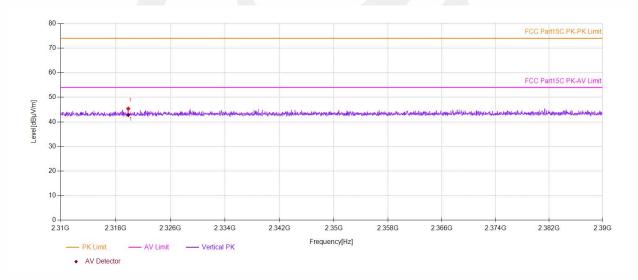
(3) Correct Factor= Ant_F + Cab_L - Preamp

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

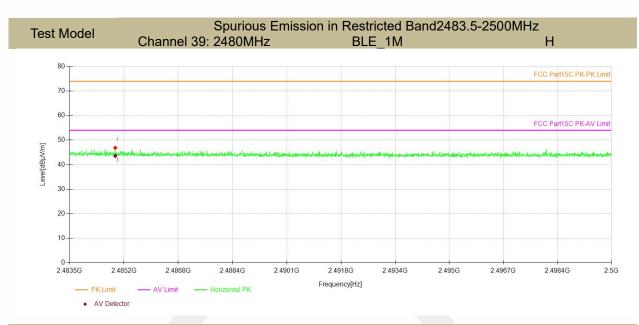




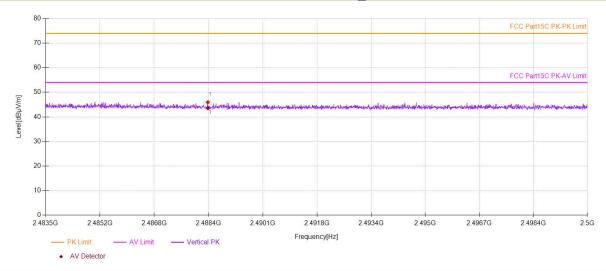
Test Model Spurious Emission in Restricted Band2310-2390MHz Channel 0: 2402MHz BLE_1M V







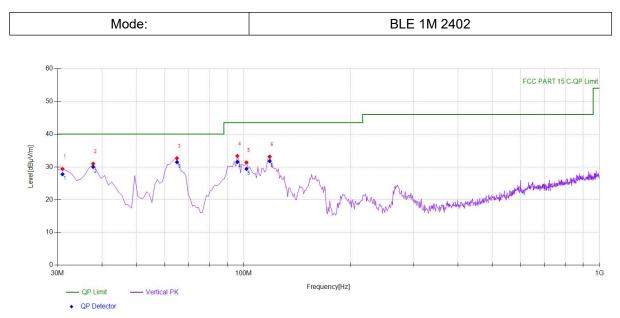
Test Model Spurious Emission in Restricted Band 2483.5-2500MHz Channel 39: 2480MHz BLE_1M V





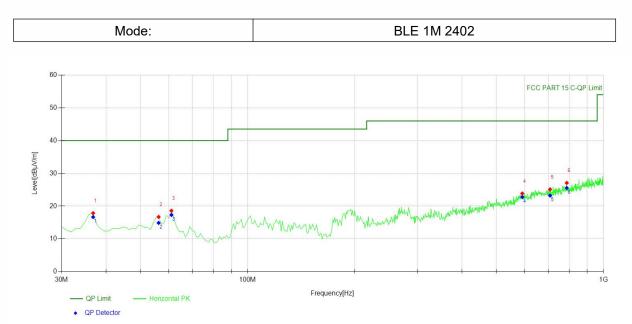
■ Spurious Emission below 1GHz(30MHz to 1GHz)

All the antenna(Antenna 1) and modes(BLE_1M) mode have been tested, and the worst(Antenna 1,BLE_1M) resultrecorded was report as below:



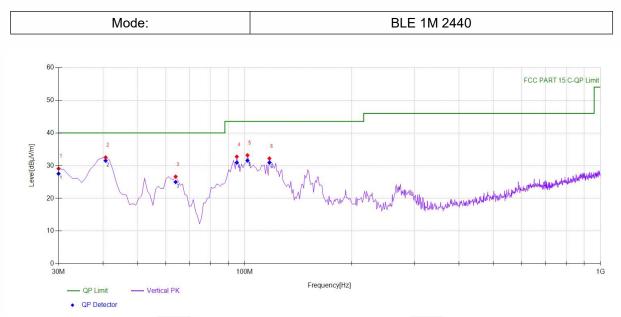
Suspe	Suspected Data List												
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity					
1	30.971	47.84	-18.47	29.37	PK	40.00	10.63	Vertical					
2	37.7678	49.04	-18.05	30.99	PK	40.00	9.01	Vertical					
3	64.955	51.87	-19.25	32.62	PK	40.00	7.38	Vertical					
4	96.026	51.05	-17.73	33.32	PK	43.50	10.18	Vertical					
5	101.8519	48.24	-16.90	31.34	PK	43.50	12.16	Vertical					
6	118.3584	50.95	-17.83	33.12	PK	43.50	10.38	Vertical					





Suspe	Suspected Data List												
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity					
1	36.7968	35.98	-18.11	17.87	PK	40.00	22.13	Horizontal					
2	56.2162	34.76	-18.04	16.72	PK	40.00	23.28	Horizontal					
3	61.0711	37.31	-18.70	18.61	PK	40.00	21.39	Horizontal					
4	591.2212	31.01	-7.14	23.87	PK	46.00	22.13	Horizontal					
5	707.7377	30.99	-5.86	25.13	PK	46.00	20.87	Horizontal					
6	788.3283	31.63	-4.54	27.09	PK	46.00	18.91	Horizontal					





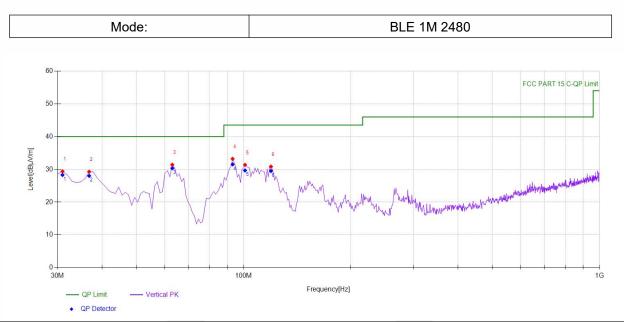
Suspe	Suspected Data List												
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity					
1	30	47.63	-18.53	29.10	PK	40.00	10.90	Vertical					
2	40.6807	50.39	-17.86	32.53	PK	40.00	7.47	Vertical					
3	63.984	45.76	-19.11	26.65	PK	40.00	13.35	Vertical					
4	95.0551	50.72	-17.97	32.75	PK	43.50	10.75	Vertical					
5	101.8519	50.09	-16.90	33.19	PK	43.50	10.31	Vertical					
6	117.3874	49.97	-17.77	32.20	PK	43.50	11.30	Vertical					





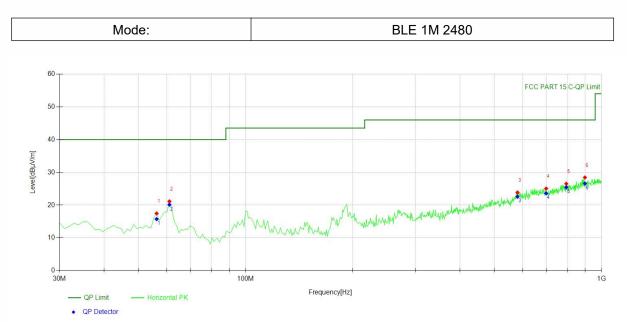
Suspe	Suspected Data List													
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity						
1	60.1001	38.88	-18.56	20.32	PK	40.00	19.68	Horizontal						
2	193.1231	39.15	-17.56	21.59	PK	43.50	21.91	Horizontal						
3	586.3664	31.71	-7.14	24.57	PK	46.00	21.43	Horizontal						
4	653.3634	31.68	-6.19	25.49	PK	46.00	20.51	Horizontal						
5	779.5896	31.86	-4.63	27.23	PK	46.00	18.77	Horizontal						
6	959.2192	30.92	-2.28	28.64	PK	46.00	17.36	Horizontal						





Suspe	Suspected Data List												
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity					
1	30.971	47.86	-18.47	29.39	PK	40.00	10.61	Vertical					
2	36.7968	47.39	-18.11	29.28	PK	40.00	10.72	Vertical					
3	63.013	50.39	-18.98	31.41	PK	40.00	8.59	Vertical					
4	93.1131	51.65	-18.43	33.22	PK	43.50	10.28	Vertical					
5	100.8809	48.21	-16.84	31.37	PK	43.50	12.13	Vertical					
6	119.3293	48.73	-17.88	30.85	PK	43.50	12.65	Vertical					





Suspe	Suspected Data List													
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity						
1	56.2162	35.52	-18.04	17.48	PK	40.00	22.52	Horizontal						
2	61.0711	39.85	-18.70	21.15	PK	40.00	18.85	Horizontal						
3	580.5405	31.00	-7.14	23.86	PK	46.00	22.14	Horizontal						
4	698.999	31.01	-5.95	25.06	PK	46.00	20.94	Horizontal						
5	796.0961	31.00	-4.46	26.54	PK	46.00	19.46	Horizontal						
6	898.048	31.27	-2.82	28.45	PK	46.00	17.55	Horizontal						

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

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