



FCC TEST REPORT

**Test report
On Behalf of
V-Mark Enterprises Ltd.**

**For
Ext Temp tag
Model No.: VRKRTS05PTRA01, VRKRTS05PTRA02
FCC ID: 2AQ7V-KRGEN2TS002**

**Prepared For : V-Mark Enterprises Ltd.
400-601 West Broadway, Vancouver, British Columbia, Canada**

**Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai
Street, Bao'an District, Shenzhen, Guangdong, China**

**Date of Test: Aug. 05, 2022 ~ Aug. 12, 2022
Date of Report: Aug. 12, 2022
Report Number: HK2208043402-1E**

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**TEST RESULT CERTIFICATION****Applicant's name** : V-Mark Enterprises Ltd.

Address : 400-601 West Broadway, Vancouver, British Columbia, Canada

Manufacture's Name : Jingrui Inspire Co.,Ltd.

Address : RM1306, Block 3 (C-1), Runhui Science Park, 18 Shenzhou Rd., Huangpu Dist., Guangzhou, Guangdong Prov., 510663 P.R. China

Product description

Trade Mark: N/A

Product name : Ext Temp tag

Model and/or type reference : VRKRTS05PTRA01, VRKRTS05PTRA02

Standards : FCC Rules and Regulations Part 15 Subpart C Section 15.225
ANSI C63.10: 2013

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Date of Test :

Date (s) of performance of tests : Aug. 05, 2022 ~ Aug. 12, 2022

Date of Issue : Aug. 12, 2022

Test Result : Pass

Testing Engineer : 

(Gary Qian)

Technical Manager : 

(Eden Hu)

Authorized Signatory : 

(Jason Zhou)



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Aug. 12, 2022	Jason Zhou

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1. TEST RESULT SUMMARY

Requirement	CFR 47 Section	Result
Conduction Emission, 0.15MHz to 30MHz	§15.207	N/A
Radiation Emission	§15.225, §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§ 15.215	PASS
Antenna requirement	§ 15.203	PASS
Frequency stability	§ 15.225	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.*

1.1. INFORMATION OF THE TEST LABORATORY

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.2. MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	= 2.71dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	= 4.28dB, k=2



2. EUT DESCRIPTION

Equipment:	Ext Temp tag
Model Name:	VRKRTS05PTRA01
Series Model:	VRKRTS05PTRA02
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: VRKRTS05PTRA01
FCC ID:	2AQ7V-KRGEN2TS002
Antenna Type:	Internal Antenna
Antenna Gain:	1dBi
Operation frequency:	13.56MHz
Modulation Type:	ASK
Power Source:	DC 3.6V from battery
Power Rating:	DC 3.6V from battery

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3. GENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
<p>The sample was placed (0.8m below 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 are shown in Test Results of the following pages.</p>	

Per-test mode.				
We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:				
Axis	X	Y	Z	
Field Strength(dBuV/m)				
Field Strength(dBuV/m)	63.15	65.58	62.76	
Final Test Mode:				
According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)				

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
/	/	/	/	/

Note:

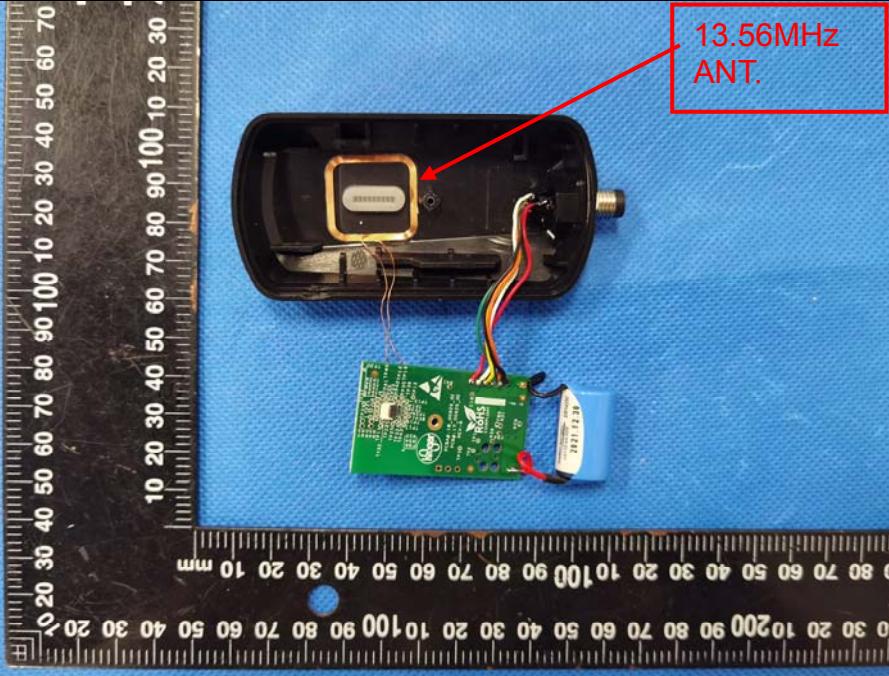
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4. TEST RESULTS AND MEASUREMENT DATA

4.1. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
<p>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.</p>	
E.U.T Antenna:	Internal Antenna
<p>The antenna used in this product is a Internal Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 1dBi.</p>	



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4.2. CONDUCTED EMISSION

4.2.1. Conducted Power Line Emission Limit

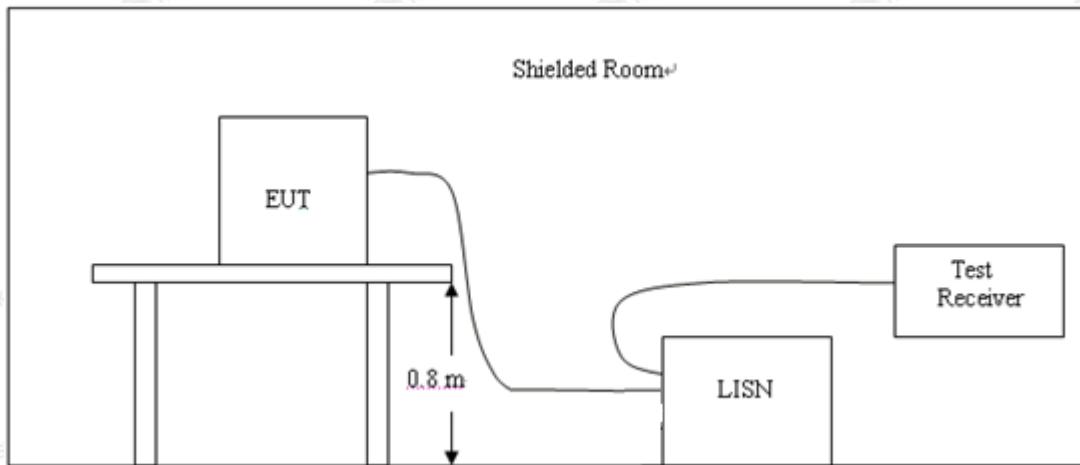
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

4.2.2. Test Setup



4.2.3. Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.



4.2.4. Test Result

Not applicable.

Note: EUT powers supply by DC Power, so this test item not applicable.



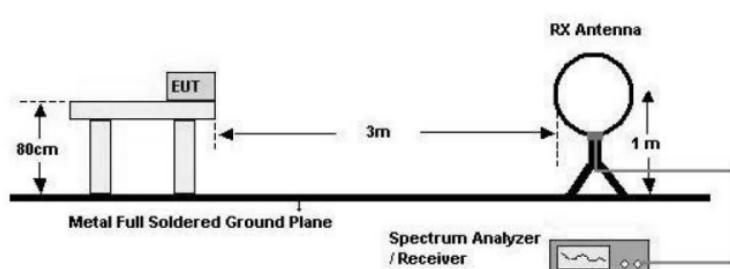
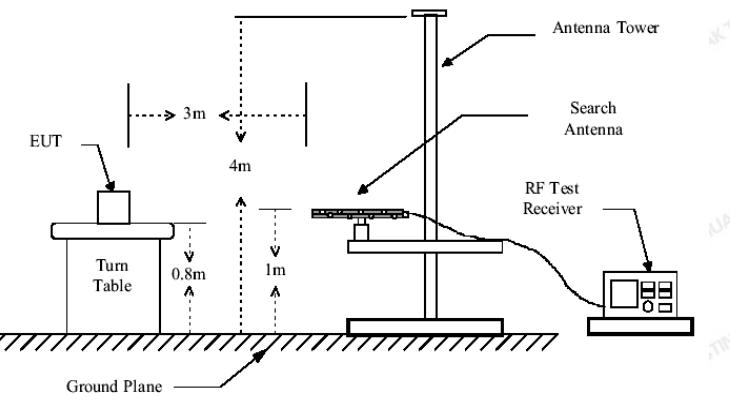
4.3. RADIATED EMISSION MEASUREMENT

4.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.225(a) and 15.209				
Test Method:	ANSI C63.10:2013				
Frequency Range:	9 kHz to 1 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	<ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				

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Test setup:	For radiated emissions Below 30 MHz 
	30MHz to 1GHz 
Test Mode:	Transmitting Mode
Test results:	PASS

4.3.2. Limit

- The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

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4.3.3. Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)	Field strength (microvolts/meter)
0.009-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.705-30	30	20log 30	30
30-88	3	40.0	100**
88-216	3	43.5	150**
216-960	3	46.0	200**
Above 960	3	54.0	500

NOTE:
**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., S 15.231 and 15.241.

4.3.4. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHWARZ	ESVD	100008	Feb. 17, 2023
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Feb. 17, 2023
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Feb. 17, 2023
Pre-amplifier	HP	8447D	2727A05017	Feb. 17, 2023
Loop antenna	ZHINAN	ZN30900A	12024	Feb. 17, 2023
Broadband Antenna	Schwarzbeck	VULB9163	340	Feb. 17, 2023
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Feb. 17, 2023
Coax cable	HUAK	N/A	N/A	Feb. 17, 2023
Coax cable	HUAK	N/A	N/A	Feb. 17, 2023
Coax cable	HUAK	N/A	N/A	Feb. 17, 2023
Coax cable	HUAK	N/A	N/A	Feb. 17, 2023
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

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

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4.3.5. Test Data

PASS

Note: this EUT was tested for all models and the worst case model (DC 6V) data was reported.

Field Strength of Fundamental

Frequency (MHz)	Reading (dB _u V/m)	Correction Factor(dB/m)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Polar (H/V)	Detector
13.21	45.90	15.82	61.72	80.51	-18.79	H	QP
13.21	45.74	15.82	61.56	80.51	-18.95	V	QP
13.85	47.95	15.82	63.77	80.51	-16.74	H	QP
13.85	47.70	15.82	63.52	80.51	-17.00	V	QP
13.56	84.43	12.33	96.76	124	-27.24	H	Peak
13.56	83.30	12.33	95.63	124	-28.37	V	Peak
13.45	52.14	15.82	67.96	90.47	-22.51	H	QP
13.45	49.88	15.82	65.70	90.47	-24.77	V	QP
13.62	49.14	15.82	64.96	90.47	-25.51	H	QP
13.62	45.61	15.82	61.43	90.47	-29.04	V	QP

Remark: Margin = Result - Limit

Result = Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Factor

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB _u V/m)	Limit@3m (dB _u V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

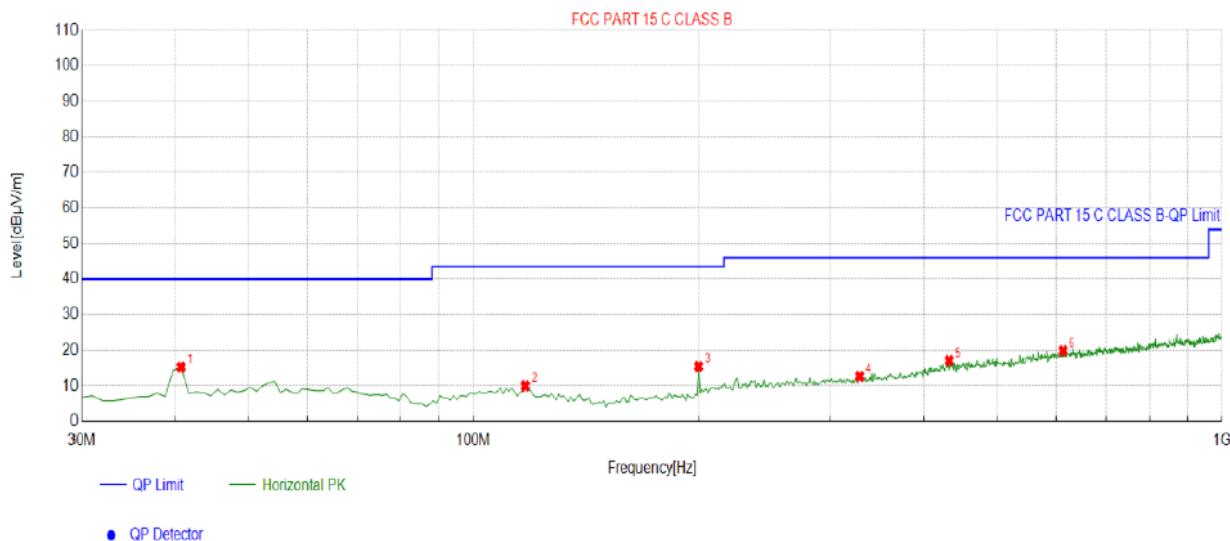
**About 30MHz-1GHz**

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Remark:

Margin = Limit – Level

Level=Test receiver reading + correction factor

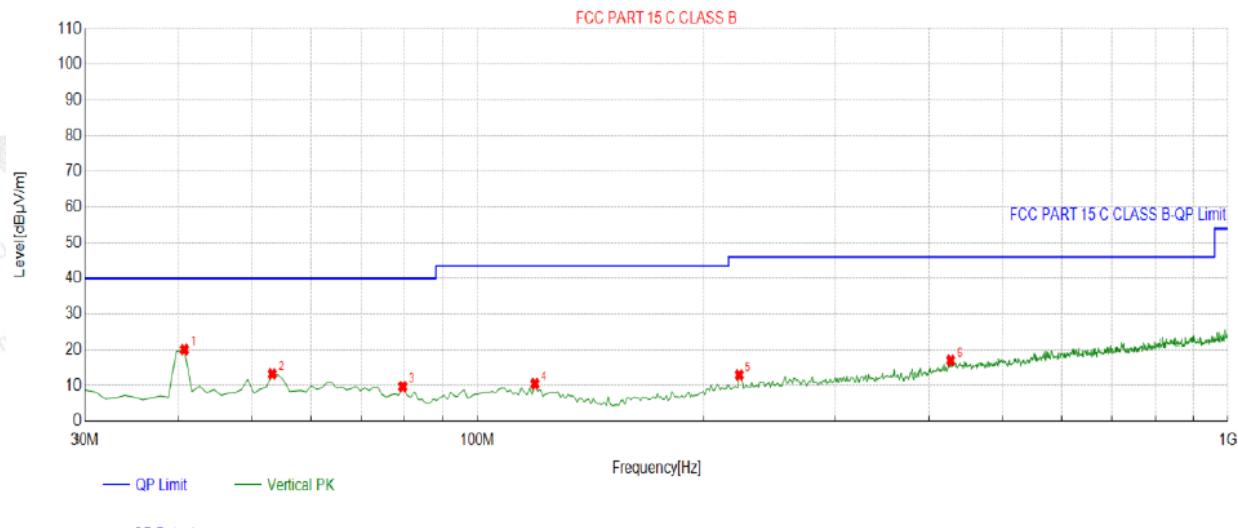
Horizontal

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6807	-15.22	30.52	15.30	40.00	24.70	100	346	Horizontal
2	117.3874	-15.13	25.13	10.00	43.50	33.50	100	294	Horizontal
3	199.9199	-15.14	30.61	15.47	43.50	28.03	100	141	Horizontal
4	328.0881	-11.32	23.97	12.65	46.00	33.35	100	312	Horizontal
5	431.9820	-7.93	25.07	17.14	46.00	28.86	100	17	Horizontal
6	613.5536	-4.44	24.36	19.92	46.00	26.08	100	212	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor;
Margin = Limit – Level



Antenna polarity: V



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6807	-15.22	35.28	20.06	40.00	19.94	100	79	Vertical
2	53.3033	-14.28	27.48	13.20	40.00	26.80	100	74	Vertical
3	79.5195	-17.32	27.02	9.70	40.00	30.30	100	124	Vertical
4	119.3293	-15.48	25.95	10.47	43.50	33.03	100	174	Vertical
5	223.2232	-13.93	26.88	12.95	46.00	33.05	100	11	Vertical
6	427.1271	-8.11	25.19	17.08	46.00	28.92	100	21	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor;
Margin = Limit – Level



4.4. OCCUPIED BANDWIDTH

4.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW\geq 1% of the 20 dB bandwidth; VBW\geqRBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	<p>The diagram illustrates the test setup. A green 'Spectrum Analyzer' is connected via a line to a white 'Attenuator'. From the attenuator, another line leads to a yellow 'EUT' (Equipment Under Test).</p>
Test Mode:	Transmitting Mode
Test results:	PASS

4.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Feb. 17, 2023

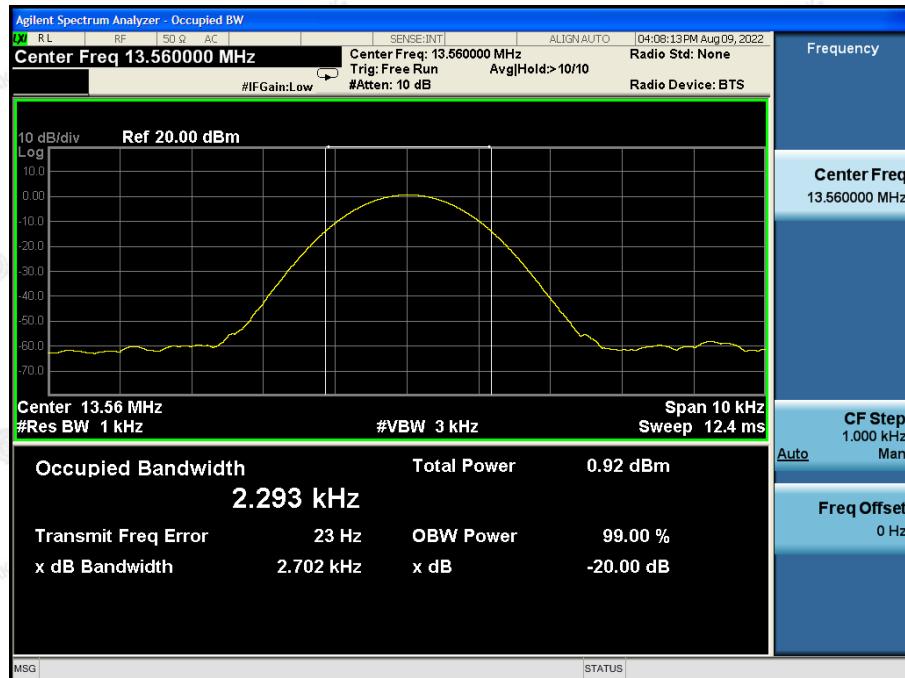
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.4.3. Test data

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
13.56	2.702	N/A	PASS

Test plots as follows:



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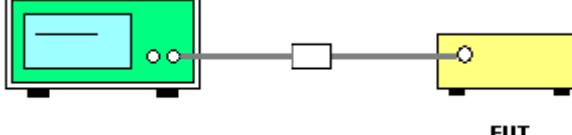
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4.5. FREQUENCY STABILITY

4.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.225
Test Method:	ANSI C63.10: 2013
Limit:	+/-0.01%
	<ol style="list-style-type: none">1. The equipment under test was connected to an external DC power supply and input rated voltage.2. RF output was connected to a spectrum analyzer.3. The EUT was placed inside the temperature chamber.4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.5. Turn EUT off and set the chamber temperature to - 20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test setup:	 <p>The diagram illustrates the test setup. A green 'Spectrum Analyzer' is connected via a coaxial cable to a yellow 'EUT' (Equipment Under Test) unit. A small white square component is also shown in the connection line.</p>
Test Mode:	Transmitting Mode
Test results:	PASS

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4.5.2. Test Data

PASS

Note: this EUT was tested for all models and the worst case model (DC 6V) data was reported.

Voltage (Vdc)	Temperature (°C)	Frequency (MHz)	Deviation (%)	Limit (%)
6	-20	13.560020	0.00015%	+/-0.01%
6	-10	13.560293	0.00216%	
6	0	13.559923	-0.00057%	
6	10	13.560335	0.00247%	
6	20	13.560035	0.00026%	
6	30	13.560193	0.00142%	
6	40	13.560063	0.00046%	
6	50	13.560325	0.00240%	
5.1	-20	13.560256	0.00189%	
5.1	-10	13.560120	0.00088%	
5.1	0	13.559894	-0.00078%	
5.1	10	13.560345	0.00254%	
5.1	20	13.560366	0.00270%	
5.1	30	13.560525	0.00387%	
5.1	40	13.560345	0.00254%	
5.1	50	13.560520	0.00383%	
6.9	-20	13.560169	0.00125%	
6.9	-10	13.560427	0.00315%	
6.9	0	13.560306	0.00226%	
6.9	10	13.560277	0.00204%	
6.9	20	13.560343	0.00253%	
6.9	30	13.560391	0.00288%	
6.9	40	13.560407	0.00300%	
6.9	50	13.560146	0.00108%	

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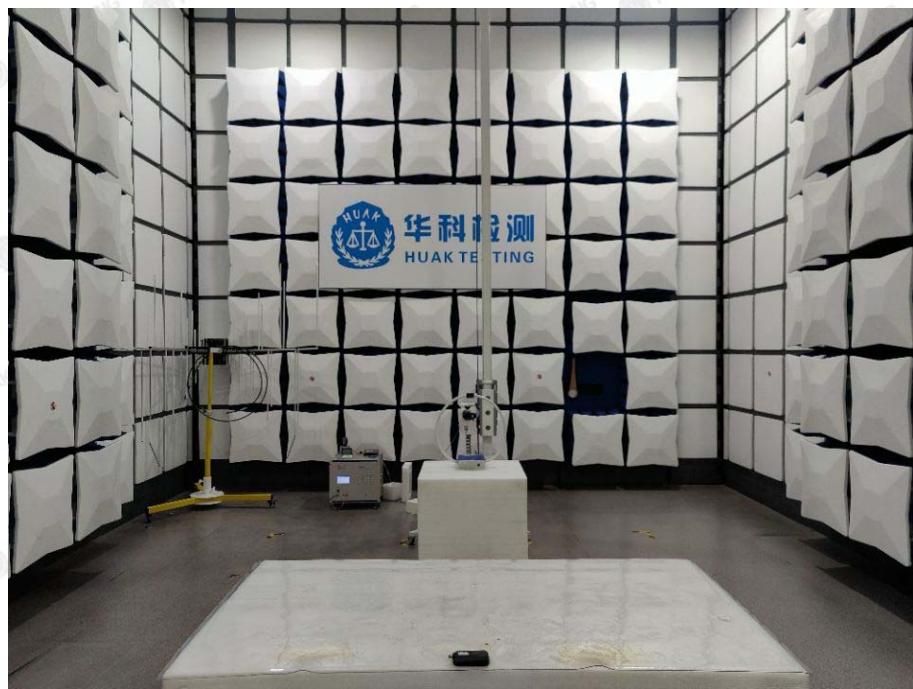
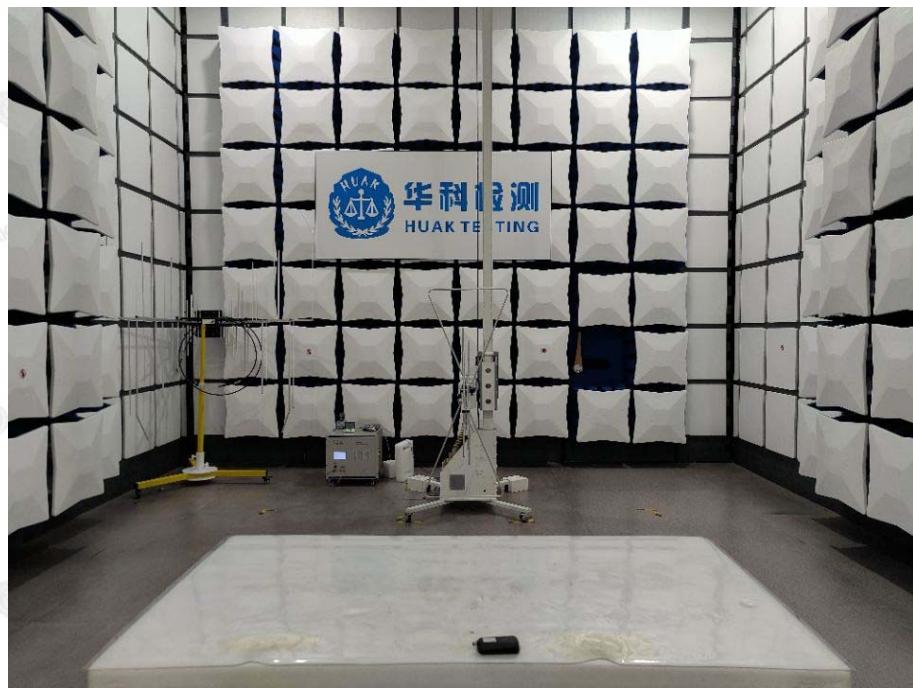
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5. APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Radiated Emission



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6. APPENDIX B: PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----

