

**TEST REPORT** 

Report No.: KS2208S3886E01

Report No.....: KS2208S3886E01

FCC ID------: 2A8OQ-HR01

Applicant.....: Shenzhen henglaixin Technology Co., Ltd

Address...... Longhua Taoyuan Queshan Guanghao Industrial Park E#8C

Shenzhen CN

Manufacturer...... Shenzhen henglaixin Technology Co., Ltd

Longhua Taoyuan Queshan Guanghao Industrial Park E#8C

Shenzhen CN

Product Name...... Non-Contact Eleceronic Thermometer

Model/Type reference.....: HR01,IRT1,CK-T1501,CK-T1502,CK-T1503

Standard.....: FCC 15.247

Date of Receipt.....: August 29, 2022

Date of Test Date...... August 29, 2022 ~ September 05,2022

Date of issue...... September 05,2022

Test result.....: Pass

Prepared by:

( Printed name + Signature) Pai Zheng

Approved by:

( Printed name + Signature) Sky Dong

Testing Laboratory Name.....: KSIGN(Guangdong) Testing Co., Ltd.

Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen,

Guangdong, China

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1. TEST SUMMARY

# 1.1. Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247:** Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

**558074 D01 15.247 Meas Guidance v05r02**: The measurement guidance provided herein is applicable only to Digital Transmission System (DTS) devices operating in the 902-928 MHz. 2400-2483.5 MHz and/or 5725-5850 MHz bands under §15.247 of the FCC rules (Title 47 of the Code of Federal Regulations)

ANSI C63.10-2020: American National Standard for Testing Unlicensed Wireless Devices.

# 1.2. Report Version

Revised No.	Date of issue	Description
01	September 05,2022	Original

TRF No. FCC Part 15.247\_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



# 1.3. Test Description

FCC Part 15 Subpart C(15.247)					
Took How	Standard Section	<b>.</b>			
Test Item	FCC	Result	Test Engineer		
Antenna Requirement	15.203	Pass	Cyril Cai		
Conducted Emission	15.207	N/A	N/A		
Radiated Emission	15.205&15.209	Pass	Cyril Cai		
Radiated Band Edge	15.205&15.247(d)	Pass	Cyril Cai		
Peak Output Power	15.247(b)	Pass	Cyril Cai		
Power Spectral Density	15.247(e)	Pass	Cyril Cai		
6dB Bandwidth	15.247(a)(2)	Pass	Cyril Cai		
Duty Cycle	558074 D01 15.247 Meas Guidance v05r02 Chapter 6	Pass	Cyril Cai		
Conducted Band edge	15.247(d)	Pass	Cyril Cai		
Spurious RF Conducted Emission	15.247(d)	Pass	Cyril Cai		

#### Note:

1. Pass: The EUT complies with the essential requirements in the standard

Fail: The EUT does not comply with the essential requirements in the standard

All indications of Pass/Fail in this report are opinions expressed by KSIGN(Guangdong) Testing Co., Ltd. based on interpretations and/or observations of test results Measurement Uncertainties were not taken into account and are published for informational purposes only.

2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

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# 1.4. Test Facility

#### Address of the report laboratory

## KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

#### Laboratory accreditation

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

#### CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical Competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### ISED#: 25693 CAB identifier.: CN0096

KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

#### 

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

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1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the KSIGN(Guangdong) Testing Co., Ltd. system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Below is the best measurement capability for KSIGN(Guangdong) Testing Co., Ltd.

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Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	2.80 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## 1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

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2. GENERAL INFORMATION

# 2.1. General Description Of EUT

Test Sample Number 1:	1-1-1(Normal Sample),1-1-2(Engineering Sample)		
Product Name:	Non-Contact Eleceronic Thermometer		
Model/Type reference:	HR01,IRT1,CK-T1501,CK-T1502,CK-T1503		
Model Difference:	The only difference between product models is the model names. Different model names are available to meet market demands. Other power supply methods, internal structures, circuits, key, components, color and appearance are the same, and do not affect safety and electromagnetic compatibility performance.		
Power supply(Battery):	DC 3.0V		
Hardware Version:	SIC20437_M		
Software Version:	BM18H1S4.0.0		
Bluetooth			
Modulation:	GFSK		
Operation frequency:	2402MHz~2480MHz		
Max Output Power:	-13.86dBm		
Channel number:	40		
Channel separation:	2MHz		
Antenna type:	PCB Antenna		
Antenna gain:	-1.09dBi		
Note:	·		

### Note:

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<sup>1.</sup> For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.



# 2.2. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BLE, 40 channels are provided to the EUT. Channels 00/19/39 were selected for testing.

#### **Operation Frequency List:**

Channel	Frequency (MHz)
00	2402
01	2404
:	:
19	2440
20	2442
21	2444
i i	÷
38	2478
39	2480

Note: The display in grey were the channel selected for testing.

#### **Test Channel**

Channel	Channel	Frequency (MHz)
Low	00	2402
Middle	19	2440
High	39	2480

### **Test mode**

NO.	TEST MODE DESCRIPTION
1	Low channel TX (2402MHz)
2	Middle channel TX (2440MHz)
3	High channel TX (2480MHz)

#### Note

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. The test software is the FCC\_assist\_1.0.2.2 which can set the EUT into the individual test modes.

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# 2.3. Measurement Instruments List

	Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until	
1	Spectrum Analyzer	R&S	FSV40-N	101798	03/04/2023	
2	Vector Signal Generator	Agilent	N5182A	MY50142520	03/04/2023	
3	Analog Signal Generator	HP	83752A	3344A00337	03/04/2023	
4	Power Sensor	Agilent	E9304A	MY50390009	03/04/2023	
5	Power Sensor	Agilent	E9300A	MY41498315	03/04/2023	
6	Wideband Radio Communication Tester	R&S	CMW500	157282	03/04/2023	
7	Climate Chamber	Angul	AGNH80L	1903042120	03/04/2023	
8	Dual Output DC Power Supply	Agilent	E3646A	MY40009992	03/04/2023	
9	RF Control Unit	Tonscend	JS0806-2	1	03/04/2023	

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	Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until	
1	EMI Test Receiver	R&S	ESR	102525	03/04/2023	
2	High Pass Filter	Chengdu E-Microwave	OHF-3-18-S	0E01901038	03/04/2023	
3	High Pass Filter	Chengdu E-Microwave	OHF-6.5-18-S	0E01901039	03/04/2023	
4	Spectrum Analyzer	HP	8593E	3831U02087	03/04/2023	
5	Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	01230	12/04/2023	
6	Loop Antenna	Beijin ZHINAN	ZN30900C	18050	03/04/2023	
7	Spectrum Analyzer	R&S	FSV40-N	101798	03/04/2023	
8	Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	03/29/2023	
9	Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	03/04/2023	
10	Pre-Amplifier	EMCI	EMC051835SE	980662	03/04/2023	

	Conducted Emission				
Item Test Equipment Manufacturer Model No. Serial No. Cal. Unti					
1	LISN	R&S	ENV432	1326.6105.02	03/04/2023
2	EMI Test Receiver	R&S	ESR	102524	03/04/2023
3	Manual RF Switch	JS TOYO	/	MSW-01/002	03/04/2023

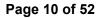
#### Note:

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<sup>1)</sup>The Cal. Interval was one year.

<sup>2)</sup>The cable loss has calculated in test result which connection between each test instruments.





2.4. Test Software

Software name	Model	Version
Conducted emission Measurement Software	EZ-EMC	EMC-Con 3A1.1
Radiated emission Measurement Software	EZ-EMC	FA-03A.2.RE
Bluetooth and WIFI Test System	JS1120-3	2.5.77.0418

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# 3. TEST ITEM AND RESULTS

# 3.1. Antenna Requirement

#### Requirement

# FCC CFR Title 47 Part 15 Subpart C 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. 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.

#### FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### **Test Result**

The directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

Antenna structure please refer to the EUT internal photographs antenna photo.

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## 3.2. Conducted Emission

#### Limit

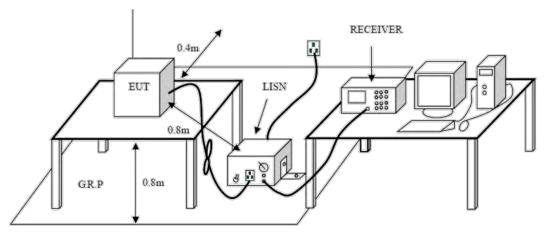
#### **Conducted Emission Test Limit**

Francos	Maximum RF Line Voltage (dBμV)			
Frequency	Quasi-peak Level	Average Level		
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

#### Notes:

- 1. \*Decreasing linearly with logarithm of the frequency.
- 2. The lower limit shall apply at the transition frequencies.
- 3. The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

# **Test Configuration**



#### **Test Procedure**

- 1. The EUT was setup according to ANSI C63.10:2020 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment.

  The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 7. During the above scans, the emissions were maximized by cable manipulation.

### **Test Mode:**

Please refer to the clause 2.2.

#### **Test Results**

The battery powered device is not suitable for this test item.

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# 3.3. Spurious Emission (Radiated)

## Limit

## Radiated Emission Limits (9 kHz~1000 MHz)

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Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

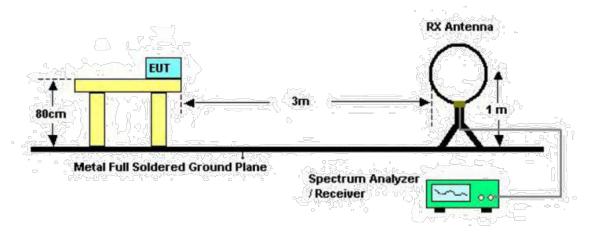
## Radiated Emission Limit (Above 1000MHz)

Frequency	Distance Meters(at 3m)				
(MHz)	Peak	Average			
Above 1000	74	54			

#### Note:

- 1. The tighter limit applies at the band edges.
- 2. Emission Level (dBuV/m)=20log Emission Level (uV/m).

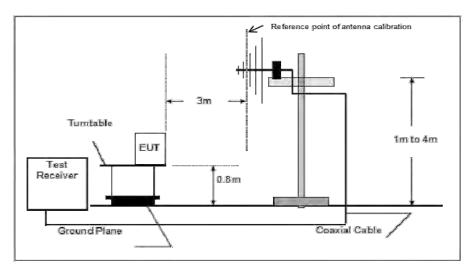
## **Test Configuration**



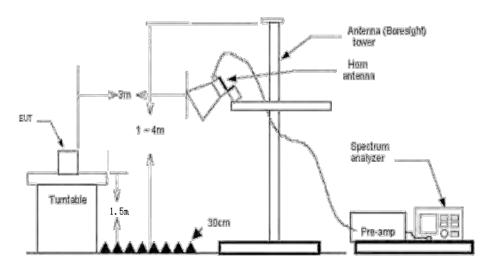
Below 30MHz Test Setup

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Below 1000MHz Test Setup



Above 1GHz Test Setup

# **Test Procedure**

- 1. The EUT was setup and tested according to ANSI C63.10:2020
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

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If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

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(3) From 1 GHz to 10<sup>th</sup> harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW=10Hz Peak detector for Peak value.

#### **Test Mode**

Please refer to the clause 2.2.

#### **Test Result**

#### 9 KHz - 30 MHz

the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

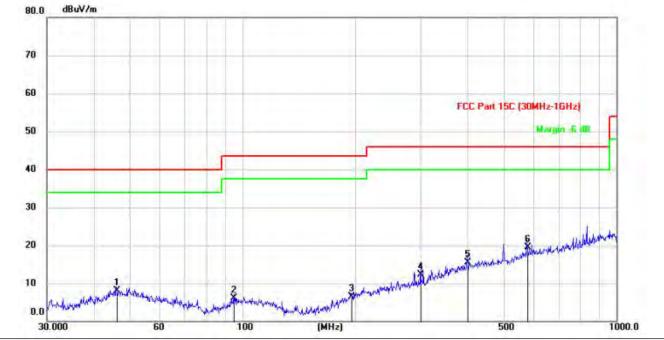


30MHz - 1GHz

Test voltage:	DC 3.0V
Ant. Pol.:	Horizontal
Tost Modo:	TV BLE Mode 2402MHz

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		46.0809	24.06	-15.97	8.09	40.00	-31.91	QP
2		94.9263	24.60	-18.47	6.13	43.50	-37.37	QP
3		195.7533	24.76	-18.19	6.57	43.50	-36.93	QP
4		300.0514	26.93	-14.66	12.27	46.00	-33.73	QP
5		400.0108	26.41	-10.91	15.50	46.00	-30.50	QP
6	•	578.0615	27.67	-8.21	19.46	46.00	-26.54	QP

Emission Level= Read Level+ Correct Factor
Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

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Test v	voltage:					D	C 3.0V				
Ant. F	Pol.:					Ve	ertical				
Test I	Mode:					T)	X BLE Mode	2402MHz			
80.0	dBuV/m										
70											
60			+					FCC	Part 15C (3	OMHz-16Hz)	
50										Maryin 6 d	4
40				F							-
30											
20		-		3				3 1	- January	den Landid	horach bets
10 0.0	Milliphy / Lylandaphan	municipality	profit of the same	Mura	mundan	manda de provinción de provinción	had good global and both a	Japan Marie			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		67.8414	31.01	-19.27	11.74	40.00	-28.26	QP
2		81.1832	33.90	-21.26	12.64	40.00	-27.36	QP
3	1	299.9462	28.55	-14.66	13.89	46.00	-32.11	QP
4		400.0108	28.58	-10.91	17.67	46.00	-28.33	QP
5		471.6795	31.06	-10.14	20.92	46.00	-25.08	QP
6	*	666.7380	29.36	-7.29	22.07	46.00	-23.93	QP

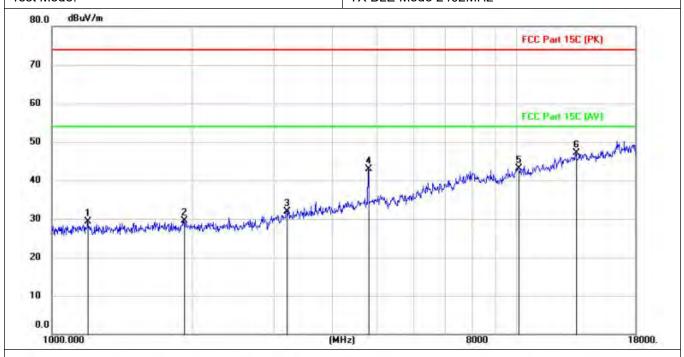
Emission Level= Read Level+ Correct Factor Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor



**Above 1GHz** 

Test voltage:	DC 3.0V
Ant. Pol.:	Horizontal
Test Mode:	TX BLF Mode 2402MHz

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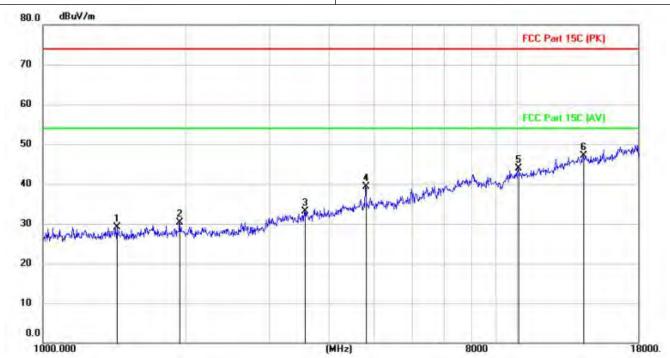


No.	Mk.	Freq.	Reading Level	Correct	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1195.500	41.28	-12.05	29.23	74.00	-44.77	peak
2		1923.100	40.66	-11.13	29.53	74.00	-44.47	peak
3		3203.200	42.19	-10.22	31.97	74.00	-42.03	peak
4		4801.200	48.84	-5.93	42.91	74.00	-31.09	peak
5	1	0081.400	38.94	4.21	43.15	74.00	-30.85	peak
6	* 1	3423.600	36.68	10.50	47.18	74.00	-26.82	peak

Emission Level= Read Level+ Correct Factor
Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor



Test voltage:	DC 3.0V
Ant. Pol.:	Vertical
Test Mode:	TX BLE Mode 2402MHz
100000000000000000000000000000000000000	



	Over	Limit	Measure- ment	Correct Factor	Reading Level	Freq.	Mk	No.
Detector	(dB)	(dBuV/m)	(dBuV/m)	(dB/m)	(dBuV)	MHz		
peak	-44.83	74.00	29.17	-11.86	41.03	1433.500		1
peak	-43.75	74.00	30.25	-11.11	41.36	1940.100		2
peak	-40.99	74.00	33.01	-9.52	42.53	3567.000		3
peak	-34.74	74.00	39.26	-5.93	45.19	4801.200		4
peak	-30.09	74.00	43.91	4.16	39.75	0052.500	- 3	5
peak	-26.95	74.00	47.05	10.97	36.08	3784.000	*	6

Emission Level= Read Level+ Correct Factor Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor



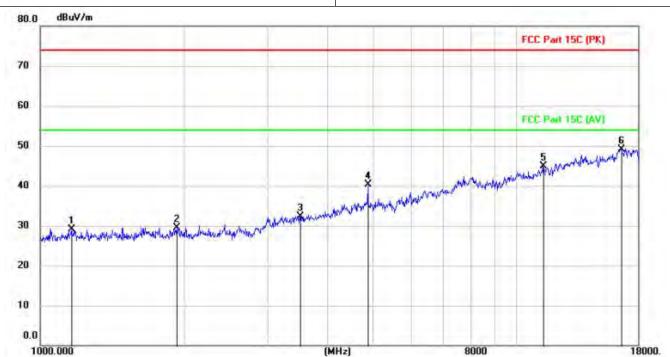
•			DC 3.	DC 3.0V					
			Horizo	Horizontal					
Test I	Mode:		TX BL	E Mode 24	40MHz				
80.0	dBuV/m								
						FCC Part 15C	(PK)		
70									
60						FCC Part 15C	IAVI		
50			4		5	www	haras ment		
30	1 2	3	American a major production of the second	- Aldrew March	A BANK PROMATURAL	May he stocked			
30	ally the transportation of the second	And represent the residence of the second							
20									
10									
0.0									
100	00.000		(MHz)		8000		18		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1091.800	41.46	-12.27	29.19	74.00	-44.81	peak
2		1657.900	40.50	-11.49	29.01	74.00	-44.99	peak
3		2439.900	43.79	-10.90	32.89	74.00	-41.11	peak
4		4876.000	49.31	-5.73	43.58	74.00	-30.42	peak
5		8083.900	40.56	2.05	42.61	74.00	-31.39	peak
6	* 1	4005.000	36.60	11.22	47.82	74.00	-26.18	peak

Emission Level= Read Level+ Correct Factor Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor



Test voltage:	DC 3.0V
Ant. Pol.:	Vertical
Test Mode:	TX BLE Mode 2440MHz

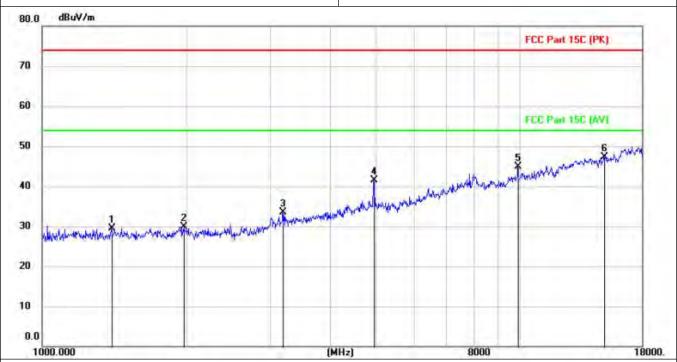


	Freq.	Level	Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	1164.900	41.12	-12.10	29.02	74.00	-44.98	peak
	1936.700	40.71	-11.11	29.60	74.00	-44.40	peak
	3510.900	41.95	-9.65	32.30	74.00	-41.70	peak
7.1	4876.000	46.06	-5.73	40.33	74.00	-33.67	peak
1	1397.200	38.24	6.63	44.87	74.00	-29.13	peak
* 1	6558.400	35.40	13.72	49.12	74.00	-24.88	peak
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	-	1164.900 1936.700 3510.900	1164.900 41.12 1936.700 40.71 3510.900 41.95 4876.000 46.06 11397.200 38.24	1164.900 41.12 -12.10 1936.700 40.71 -11.11 3510.900 41.95 -9.65 4876.000 46.06 -5.73 11397.200 38.24 6.63	1164.900     41.12     -12.10     29.02       1936.700     40.71     -11.11     29.60       3510.900     41.95     -9.65     32.30       4876.000     46.06     -5.73     40.33       11397.200     38.24     6.63     44.87	1164.900     41.12     -12.10     29.02     74.00       1936.700     40.71     -11.11     29.60     74.00       3510.900     41.95     -9.65     32.30     74.00       4876.000     46.06     -5.73     40.33     74.00       11397.200     38.24     6.63     44.87     74.00	1164.900     41.12     -12.10     29.02     74.00     -44.98       1936.700     40.71     -11.11     29.60     74.00     -44.40       3510.900     41.95     -9.65     32.30     74.00     -41.70       4876.000     46.06     -5.73     40.33     74.00     -33.67       11397.200     38.24     6.63     44.87     74.00     -29.13

Emission Level= Read Level+ Correct Factor Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor



Test voltage:	DC 3.0V
Ant. Pol.:	Horizontal
Test Mode:	TX BLE Mode 2480MHz



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	1397.800	41.49	-11.91	29.58	74.00	-44.42	peak
	1979.200	40.94	-11.08	29.86	74.00	-44.14	peak
	3193.000	43.80	-10.23	33.57	74.00	-40.43	peak
1	4955.900	47.00	-5.52	41.48	74.00	-32.52	peak
	9913.100	41.06	3.88	44.94	74.00	-29.06	peak
* 1	5009.700	35.69	11.55	47.24	74.00	-26.76	peak
		MHz 1397.800 1979.200 3193.000 4955.900	Mk. Freq. Level  MHz (dBuV)  1397.800 41.49  1979.200 40.94  3193.000 43.80  4955.900 47.00  9913.100 41.06	Mk.         Freq.         Level         Factor           MHz         (dBuV)         (dB/m)           1397.800         41.49         -11.91           1979.200         40.94         -11.08           3193.000         43.80         -10.23           4955.900         47.00         -5.52           9913.100         41.06         3.88	Mk.         Freq.         Level         Factor         ment           MHz         (dBuV)         (dB/m)         (dBuV/m)           1397.800         41.49         -11.91         29.58           1979.200         40.94         -11.08         29.86           3193.000         43.80         -10.23         33.57           4955.900         47.00         -5.52         41.48           9913.100         41.06         3.88         44.94	Mk.         Freq.         Level         Factor         ment         Limit           MHz         (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)           1397.800         41.49         -11.91         29.58         74.00           1979.200         40.94         -11.08         29.86         74.00           3193.000         43.80         -10.23         33.57         74.00           4955.900         47.00         -5.52         41.48         74.00           9913.100         41.06         3.88         44.94         74.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)           1397.800         41.49         -11.91         29.58         74.00         -44.42           1979.200         40.94         -11.08         29.86         74.00         -44.14           3193.000         43.80         -10.23         33.57         74.00         -40.43           4955.900         47.00         -5.52         41.48         74.00         -32.52           9913.100         41.06         3.88         44.94         74.00         -29.06

Emission Level= Read Level+ Correct Factor Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor



Test voltage:			DC	DC 3.0V				
Ant. Pol.:			Ve	Vertical				
Test Mode:			TX	BLE Mode 2	2480MHz			
80.0 dBuV/m	0.0							
						FCC Part 15C (F	K)	
70								
60								
50					+++	FCC Part 15C (A		
40				<b>*</b>	WANTER TO THE PARTY OF THE PART	y Milyanyah Persentan Marya	and the second	
30 1	Land market the state of the	military of which have	plate to the state of the state of the same	week help out on season was				
20								
10								
74								

Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
- 9	1059.500	41.13	-12.34	28.79	74.00	-45.21	peak
- 1	1911.200	41.07	-11.13	29.94	74.00	-44.06	peak
	2480.700	43.60	-10.89	32.71	74.00	-41.29	peak
	4957.600	44.47	-5.51	38.96	74.00	-35.04	peak
- Q	8049.900	41.29	2.06	43.35	74.00	-30.65	peak
* 1	3442.300	35.89	10.53	46.42	74.00	-27.58	peak
		2.844 D.Z.446	Mk. Freq. Level  MHz (dBuV)  1059.500 41.13  1911.200 41.07  2480.700 43.60  4957.600 44.47  8049.900 41.29	Mk. Freq. Level Factor  MHz (dBuV) (dB/m)  1059.500 41.13 -12.34  1911.200 41.07 -11.13  2480.700 43.60 -10.89  4957.600 44.47 -5.51  8049.900 41.29 2.06	Mk. Freq. Level Factor ment  MHz (dBuV) (dB/m) (dBuV/m)  1059.500 41.13 -12.34 28.79  1911.200 41.07 -11.13 29.94  2480.700 43.60 -10.89 32.71  4957.600 44.47 -5.51 38.96  8049.900 41.29 2.06 43.35	Mk. Freq. Level Factor ment Limit  MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m)  1059.500 41.13 -12.34 28.79 74.00  1911.200 41.07 -11.13 29.94 74.00  2480.700 43.60 -10.89 32.71 74.00  4957.600 44.47 -5.51 38.96 74.00  8049.900 41.29 2.06 43.35 74.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)           1059.500         41.13         -12.34         28.79         74.00         -45.21           1911.200         41.07         -11.13         29.94         74.00         -44.06           2480.700         43.60         -10.89         32.71         74.00         -41.29           4957.600         44.47         -5.51         38.96         74.00         -35.04           8049.900         41.29         2.06         43.35         74.00         -30.65

Emission Level= Read Level+ Correct Factor Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

## Note:

1.From 18GHz to 26.5GHz,the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2. The Peak value is less than the AVG limit, so AVG is not tested.

# TRF No. FCC Part 15.247\_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



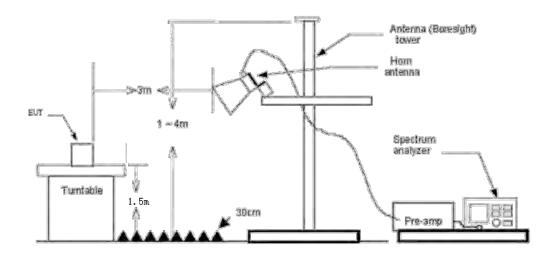
# 3.4. Band Edge Emissions(Radiated)

#### Limit

Restricted Frequency Band	(dBuV/m)(at 3m)					
(MHz)	Peak	Average				
2310 ~2390	74	54				
2483.5 ~2500	74	54				
Note: All restriction hands have been tested, only the worst case is reported						

Note: All restriction bands have been tested, only the worst case is reported.

### **Test Configuration**



### **Test Procedure**

- 1. The EUT was setup and tested according to ANSI C63.10:2020 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2020 on radiated measurement.
- 5. The receiver set as follow:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW=10Hz with Peak detector for Average value.

### **Test Mode**

Please refer to the clause 2.2.

#### **Test Results**

#### Note:

- 1. Measurement = Reading level + Correct Factor
- 2. Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

# TRF No. FCC Part 15.247\_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



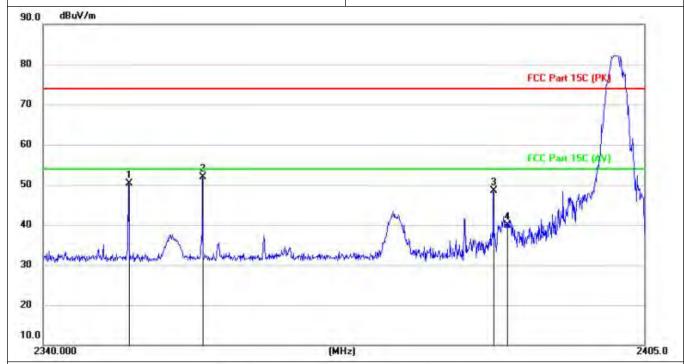
Test V	/oltage	DC 3.0V	
Ant. P	Pol.:	Horizontal	
Test N	Mode:	TX BLE Mode 2402MHz	
90.0	dBuV/m		
80		FC	C Part 15C (PK)
70			
60			
60		FO	C Part ISC (AV)
50			1
40		/bs	100
	MA		LAMP Y
30 🙌	erapenhanelle suidelikkunnaarie Thadge enakerikand	warmer and the second of the control	M
20			
10.0			
	0.000	(MHz)	2405

	Over	Limit	Measure- ment	Correct Factor	Reading Level	Freq.	Mk.	No.
Detector	(dB)	(dBuV/m)	(dBuV/m)	(dB/m)	(dBuV)	MHz		
peak	-38.74	74.00	35.26	-10.92	46.18	2390.000		1

Emission Level= Read Level+ Correct Factor



Test Voltage	DC 3.0V
Ant. Pol.	Vertical
Test Mode:	TX BLE Mode 2402MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2349.133	61.14	-10.93	50.21	74.00	-23.79	peak
2	*	2357.082	62.86	-10.92	51.94	74.00	-22.06	peak
3		2388.535	59.46	-10.93	48.53	74.00	-25.47	peak
4		2390.000	50.88	-10.92	39.96	74.00	-34.04	peak

Emission Level= Read Level+ Correct Factor



Test Voltage	DC 3.0V
Ant. Pol.	Horizontal
Test Mode:	TX BI F Mode 2480 MHz

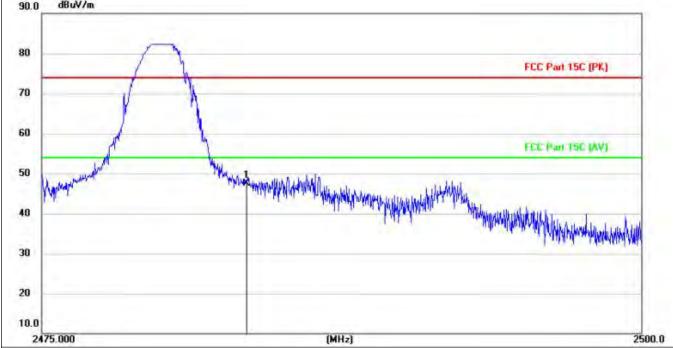


	Over	Limit	Measure- ment	Correct Factor	Reading Level	Freq.	Mk.	No.
Detector	(dB)	(dBuV/m)	(dBuV/m)	(dB/m)	(dBuV)	MHz		
peak	-25.48	74.00	48.52	-10.88	59.40	2483.500		1
peak	-20.37	74.00	53.63	-10.88	64.51	2485.673	•	2
peak	-22.06	74.00	51.94	-10.88	62.82	2488.485		3

Emission Level= Read Level+ Correct Factor



Test Voltage	DC 3.0V
Ant. Pol.	Vertical
Test Mode:	TX BLE Mode 2480 MHz
90.0 dBuV/m	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1	•	2483.500	58.36	-10.88	47.48	74.00	-26.52	peak

Emission Level= Read Level+ Correct Factor

## Note:

The Peak value is less than the AVG limit, so AVG is not tested.



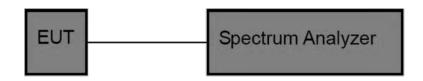
# 3.5. Peak Output Power

### <u>Limit</u>

Test Item	Limit	Frequency Range(MHz)	
Peak Output Power	1 Watt or 30 dBm	2400~2483.5	

Report No.: KS2208S3886E01

## **Test Configuration**



# **Test Procedure**

- 1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
- 2. Spectrum Setting:

Peak Detector: RBW ≥ DTS Bandwidth, VBW ≥ 3\*RBW.

Sweep time=Auto.
Detector= Peak.

Trace mode= Maxhold.

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

## **Test Mode**

Please refer to the clause 2.2.

## **Test Result**

Test Channel	Frequency (MHz)	Maximum Conducted Output Power(PK) (dBm)	Limit (dBm)	Result
CH00	2402	-14.69	30	Pass
CH19	2440	-14.15	30	Pass
CH39	2480	-13.86	30	Pass

TRF No. FCC Part 15.247\_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China







Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



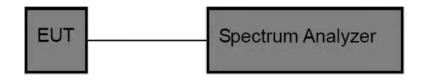


# 3.6. Power Spectral Density

#### Limit

FCC Part 15 Subpart C(15.247)						
Test Item	Limit	Frequency Range(MHz)				
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5				

#### **Test Configuration**



## **Test Procedure**

- 1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
- The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.b-6.ii of KDB 558074 D01 DTS Meas Guidance v05r02.
- 3. Spectrum Setting:

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW ≥ 3 kHz

Set the VBW  $\geq$  3 x RBW

Detector: peak

Sweep time: auto couple Allow trace to fully stabilize.

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

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### **Test Mode**

Please refer to the clause 2.2.

#### **Test Result**

TRF No. FCC Part 15.247\_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

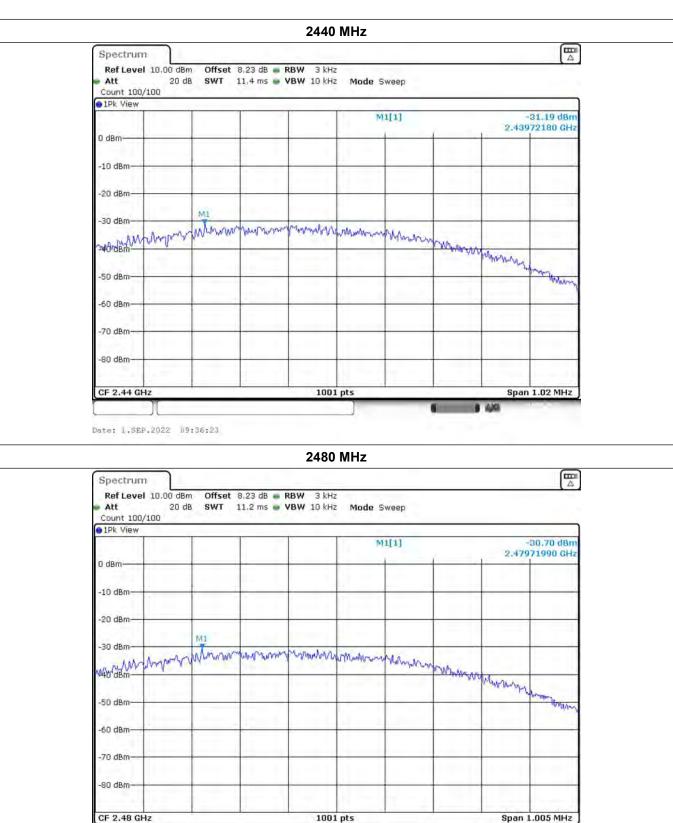


**Power Density** Limit Frequency Result (dBm/3kHz) (dBm/3kHz) 2402 MHz -31.67 **Pass** 8 2440 MHz -31.19 8 Pass 2480 MHz -30.70 8 **Pass** 

Report No.: KS2208S3886E01







# TRF No. FCC Part 15.247\_R1

Date: 1.SEP.2022 09:39:46

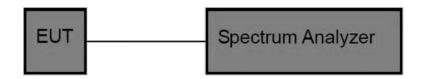


# 3.7. 6dB Bandwidth

#### Limit

Test Item	Limit	Frequency Range(MHz)
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5

## **Test Configuration**



## **Test Procedure**

- 1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
- 2. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.
- 3. The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.
- 4. Spectrum Setting:

6dB bandwidth:

- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) ≥ 3 RBW.
- (3) Detector = Peak.
- (4) Trace mode = Max hold.
- (5) Sweep = Auto couple.
- (6) Allow the trace to stabilize.
- (7) 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.
  - (8) The transmitter output was connected to the spectrum analyzer through an attenuator.

## **Test Mode**

Please refer to the clause 2.2.

TRF No. FCC Part 15.247\_R1

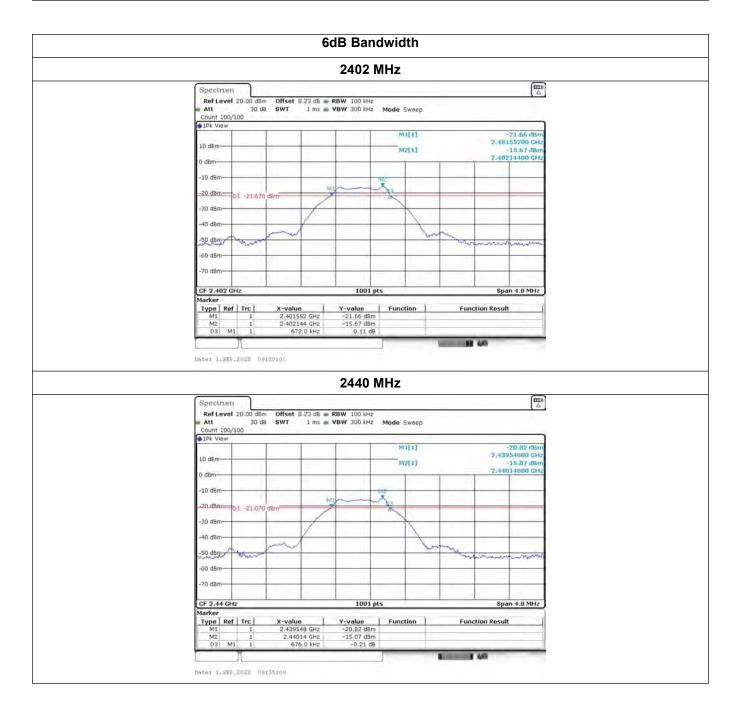
Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



**Test Results** 

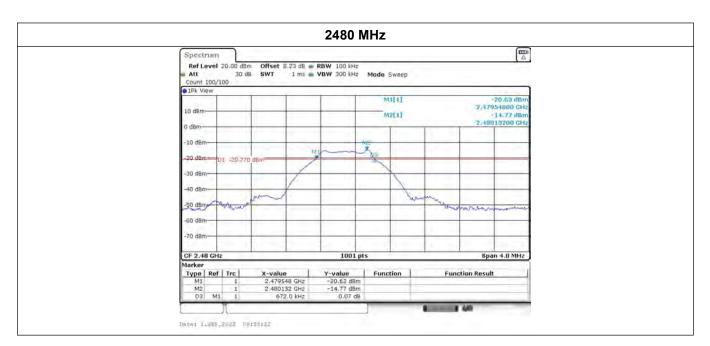
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2402	0.672		
Middle	2440	0.676	≥500	Pass
High	2480	0.672		

Report No.: KS2208S3886E01



Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China







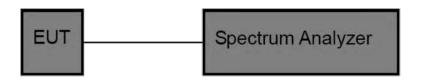
# 3.8. Duty Cycle

## Limit

Test Item	Limit	Frequency Range(MHz)
Duty Cycle	No limit requirement	2400~2483.5

Report No.: KS2208S3886E01

## **Test Configuration**



#### **Test Procedure**

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T  $\leq$  16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, 6.0(b) in KDB 558074 D01 DTS Meas Guidance v05r02.

The largest availble value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if  $T \le 6.25$  microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

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.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Zero Span

RBW = 1MHz (the largest available value)

VBW = 1MHz (≥ RBW)

Number of points in Sweep >100

Detector function = peak

Trace = Clear write

Measure Total and Ton

Calculate Duty Cycle = Ton / Total

TRF No. FCC Part 15.247\_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



# **Test Mode**

Please refer to the clause 2.2.

#### **Test Results**



Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



2480 MHz Spectrum Ref Level 20.00 dBm Offset 8.23 dB - RBW 1 MHz 5 ms w VBW 1 MHz Att 30 dB - SWT 1Pk Clrw M1[1] 2,50000 W 10 dBm D1[1] 2:13000 m 0 dBm 10 dBm TRG -20.300 d8m -30 dBn 40 dBm CHUANU -60 dBm 70 dBm CF 2.48 GHz 1001 pts 500.0 µs/ Y-value -14.60 dBm -33,49 dB **Function Result** 2.5 ms 2.13 ms 2.5 ms -0.04 dB Date: 1.SEP.2022 09:38:03

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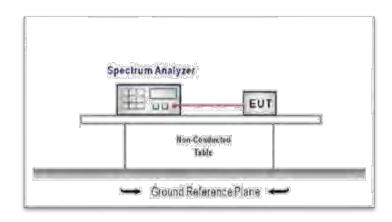
# 3.9. Conducted Band Edge

## Limit

### FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

#### **Test Configuration**



#### **Test Procedure**

- 1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
- 2. Spectrum Setting:

RBW=100KHz

VBW=300KHz.

Detector function: Peak.

Trace: Max hold.

Sweep = Auto couple.

Allow the trace to stabilize.

#### **Test Mode**

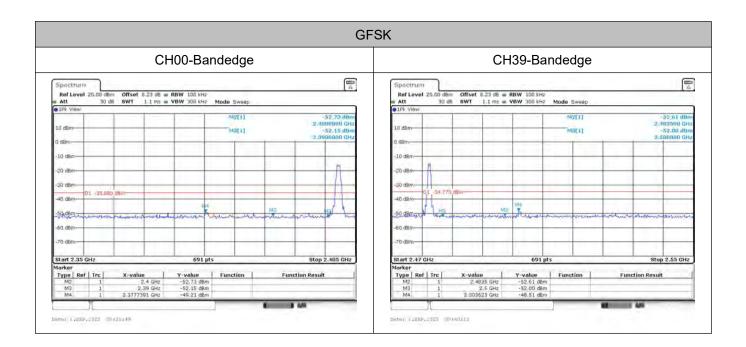
Please refer to the clause 2.2.

TRF No. FCC Part 15.247\_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



<u>Test Results</u>



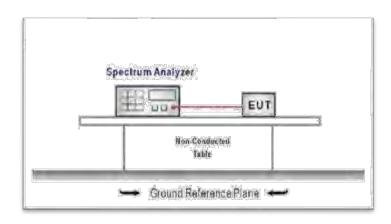


# 3.10. Spurious RF Conducted Emission

#### Limit

Below -20dB of the highest emission level in operating band.

#### **Test Configuration**



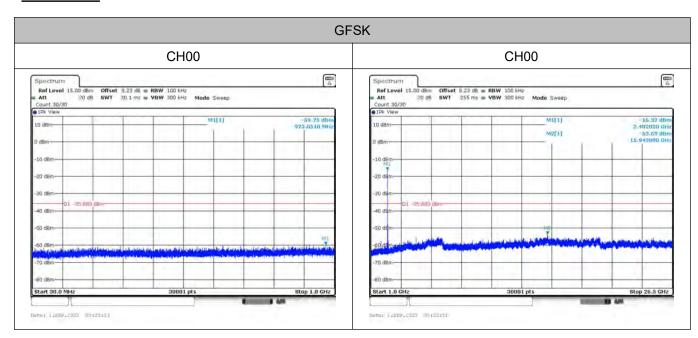
#### **Test Procedure**

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance 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. Set RBW=100kHz and VBW= 300kHz to measure the peak field strength, and measure frequency range from 9kHz to 26.5GHz.

#### **Test Mode**

Please refer to the clause 2.2.

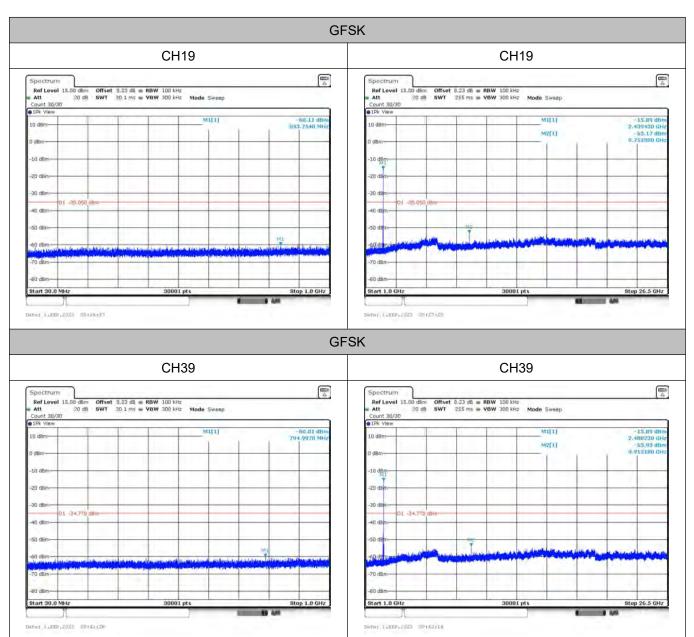
## **Test Results**



TRF No. FCC Part 15.247\_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China







# **4.EUT TEST PHOTOS**

# Radiated Measurement (Below 1GHz)



Radiated Measurement (Above 1GHz)





**5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL** 



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Internal Photographs



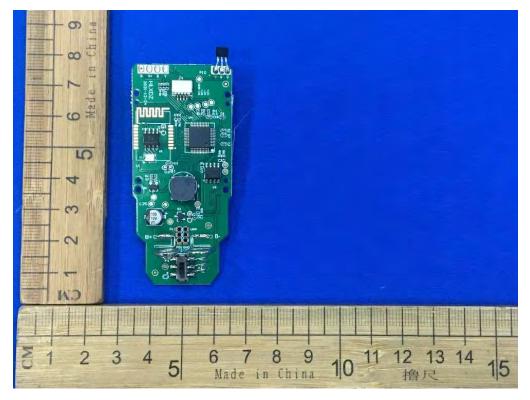




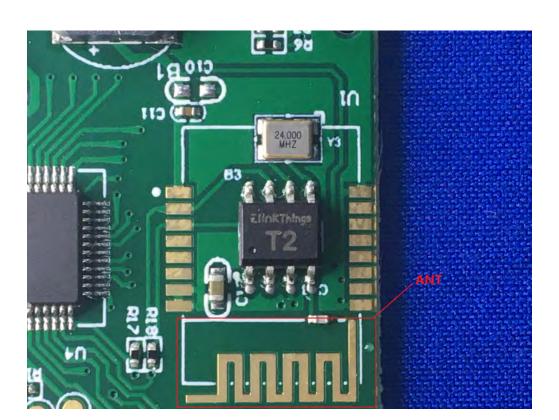












--THE END--