



TEST REPORT

Applicant: GoodWe Technologies Co.,Ltd

Address: No.90 Zijin Road, suzhou, Jiangsu, China

FCC ID: 2AU7JEZLINK3000-US

Product Name: Ezlink

Model Number: Ezlink3000-US

Standard(s): 47 CFR Part 15, Subpart C(15.247)

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR22040067-00A

Date Of Issue: 2022-08-19

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Sun 2hong

Title: Manager

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

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The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "\(\Lambda \)". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Ezlink
EUT Model:	Ezlink3000-US
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	9.53 dBm
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Rated Input Voltage:	DC 5V
Serial Number:	CR22040067-RF-S1
EUT Received Date:	2022.5.7
EUT Received Status:	Good

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Operation Frequency Detail:

Operation Frequency Detail.				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
0	2402	40	2442	
1	2403	41	2443	
•••	•••		•••	
			•••	
		78	2480	
39	2441	/	/	
Per section 15.31(m), the	below frequencies were perform	med the test as below:		
Test Channel			uency IHz)	
Lowest		2402		
Middle		2441		
Highest		24	480	

Antenna Information Detail ▲:

Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 Requirement		
monopole	50	2.5 dBi/ 2.4~2.5GHz	Compliance		
The Method of §15.203 Compliance:					
Antenna must be permanently attached to the unit.					
Antenna must use a unique type of connector to attach to the EUT.					
Unit must be professionally installed, and installer shall be responsible for verifying that the					
correct antenna is employed with the unit.					
	Type monopole mpliance: manently attac unique type of ssionally instal	Type (Ohm) monopole 50 ompliance: manently attached to the unit. unique type of connector to attach to sionally installed, and installer sh	Type (Ohm) /Frequency Range monopole 50 2.5 dBi/ 2.4~2.5GHz ompliance: manently attached to the unit. unique type of connector to attach to the EUT. ssionally installed, and installer shall be responsible for v		

Accessory Information:

No accessory.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

TIZIT Ze T e permitter committe	122.1 Let operation condition:			
EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.			
Equipment Modifications:	No			
EUT Exercise Software:	Putty			
The software "Putty" was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:				
Test Modes	Power Level Setting			
Test Wodes	Lowest	Middle	Highest	
GFSK	Default	Default	Default	
π/4-DQPSK	Default	Default	Default	
8DPSK	Default	Default	Default	

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1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T460S	60PDTEK8
Switching Power Supply	Adapter	HB05M-0501501SPA	7376088

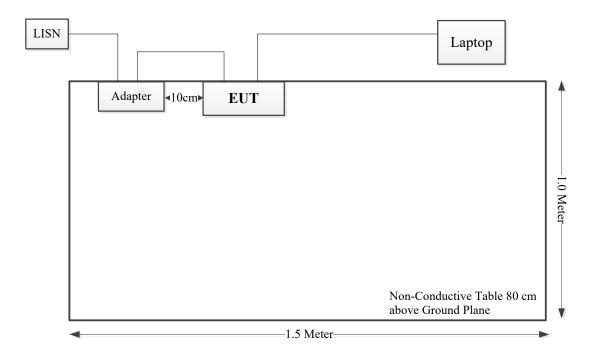
1.2.3 Support Cable List and Details

	Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
	Power Cable	No	No	1	EUT	Adapter
Ī	RJ45 Cable	No	No	3	EUT	Laptop

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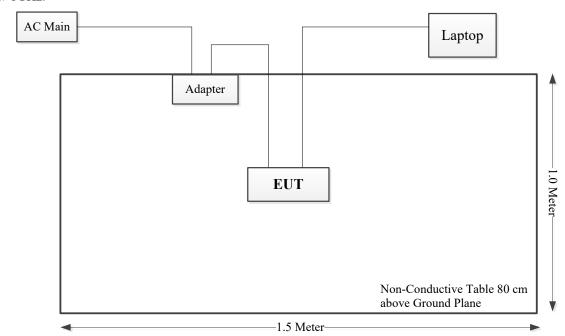
1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



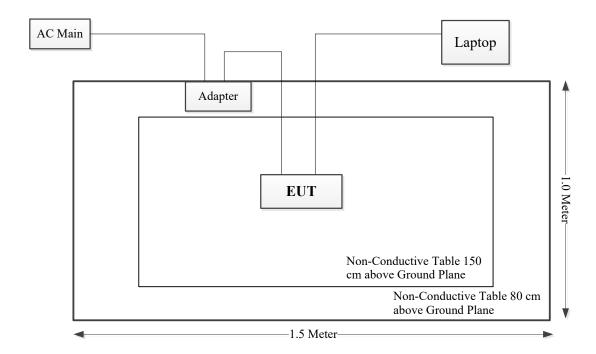
Spurious Emissions:

Below 1GHz:



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Above 1GHz:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	$\pm 0.61 dB$
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1°C
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207(a)	AC line conducted emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious emissions	Compliant
FCC §15.247(a)(1)	20 dB bandwidth	Compliant
FCC §15.247(a)(1)	Channel separation	Compliant
FCC §15.247(a)(1)(iii)	Number of hopping Frequency	Compliant
FCC §15.247(a)(1)(iii)	Time of occupancy (dwell time)	Compliant
FCC §15.247(b)(1)	Peak output power measurement	Compliant
FCC §15.247(d)	Band edges	Compliant
FCC §15.203	Antenna requirement	Compliant
FCC§15.247 (i) & §1.1307	RF Exposure Evaluation	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

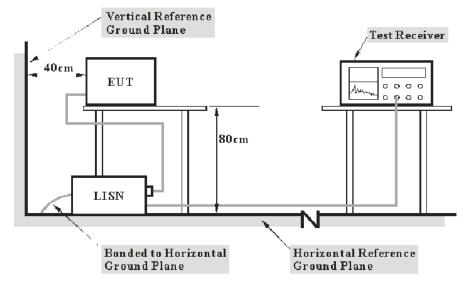
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \,\mu\text{H}/50$ ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 $\mu H/50$ ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

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3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

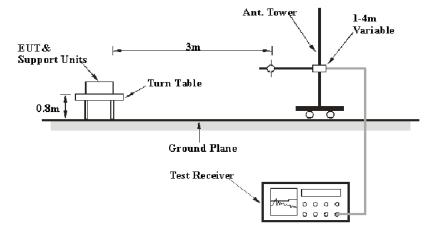
FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

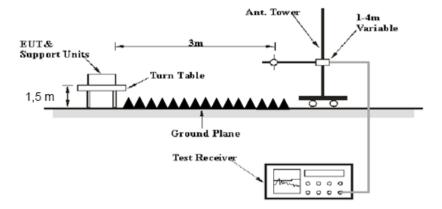
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3.2.2 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
Above I GHZ	1MHz	3 MHz	/	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.3 20 dB Bandwidth

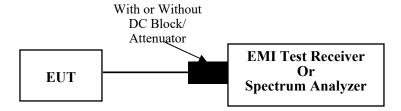
3.3.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

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3.3.2 EUT Setup



3.3.3 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

3.4 Channel Separation

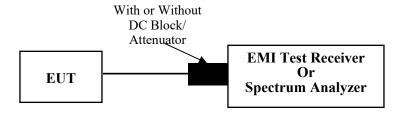
3.4.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

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3.4.2 EUT Setup



3.4.3Test Procedure

According to ANSI C63.10-2013 Section 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) ≥ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

3.5 Number Of Hopping Frequency

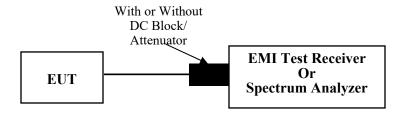
3.5.1 Applicable Standard

FCC §15.247 (a)(1)(iii)

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

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3.5.2 EUT Setup



3.5.3Test Procedure

According to ANSI C63.10-2013 Section 7.8.3

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) $VBW \ge RBW$.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

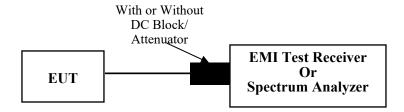
3.6 Time Of Occupancy(Dwell Time)

3.6.1 Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

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3.6.2 EUT Setup



3.6.3Test Procedure

The EUT was worked in channel hopping; the time of single pulses was tested.

3.7 Peak Output Power

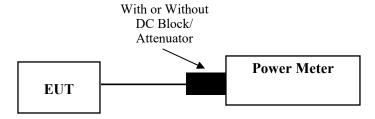
3.7.1 Applicable Standard

FCC §15.247 (b)(1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

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3.7.2 EUT Setup



3.7.3Test Procedure

- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 2. Add a correction factor to the display.

3.8 100 kHz Bandwidth of Frequency Band Edge

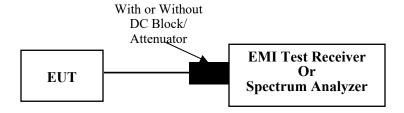
3.8.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

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3.8.2 EUT Setup



3.8.3 Test Procedure

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 \times RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.9 Antenna Requirement

3.9.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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3.9.2 Judgment

Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR22040067-RF-S1	Test Date:	2022-06-07
Test Site:	CE	Test Mode:	Transmitting(BDR high channel was the worst)
Tester:	Nick Tang	Test Result:	Pass

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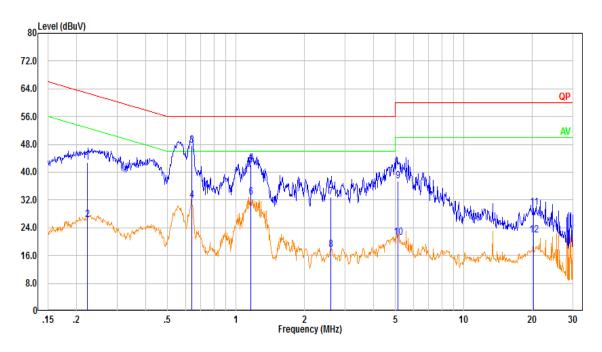
Environmental Conditions:							
Temperature: $(^{\circ}\mathbb{C})$	30.5	Relative Humidity: (%)	70	ATM Pressure: (kPa)	100.3		

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022-04-01	2023-03-31
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

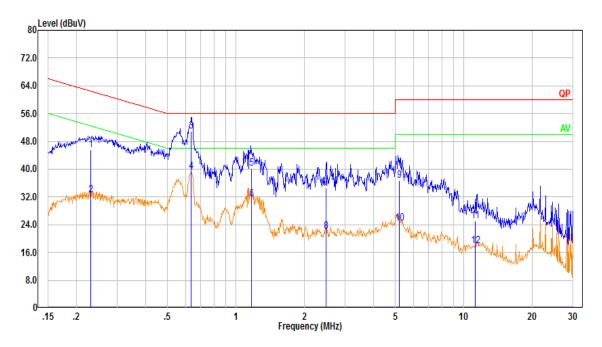
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Line:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.223	33.10	9.61	42.71	62.71	20.00	QP
2	0.223	16.60	9.61	26.21	52.71	26.50	Average
3	0.638	38.12	9.62	47.74	56.00	8.26	QP
4	0.638	22.13	9.62	31.75	46.00	14.25	Average
5	1.157	32.45	9.62	42.07	56.00	13.93	QP
6	1.157	23.09	9.62	32.72	46.00	13.28	Average
7	2.599	23.17	9.64	32.81	56.00	23.19	QP
8	2.599	7.92	9.64	17.56	46.00	28.44	Average
9	5.137	27.84	9.66	37.50	60.00	22.50	QP
10	5.137	11.39	9.66	21.05	50.00	28.95	Average
11	20.256	19.91	9.80	29.71	60.00	30.29	QP
12	20.256	12.14	9.80	21.94	50.00	28.06	Average

Neutral:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.230	35.88	9.61	45.49	62.45	16.96	QP
2	0.230	22.87	9.61	32.48	52.45	19.97	Average
3	0.636	41.25	9.62	50.87	56.00	5.13	QP
4	0.636	29.61	9.62	39.23	46.00	6.77	Average
5	1.170	30.71	9.62	40.33	56.00	15.67	QP
6	1.170	21.81	9.62	31.43	46.00	14.57	Average
7	2.490	24.90	9.64	34.54	56.00	21.46	QP
8	2.490	12.43	9.64	22.07	46.00	23.93	Average
9	5.197	27.01	9.66	36.67	60.00	23.33	QP
10	5.197	14.77	9.66	24.43	50.00	25.57	Average
11	11.202	15.35	9.67	25.02	60.00	34.98	QP
12	11.202	8.20	9.67	17.87	50.00	32.13	Average

4.2 Radiation Spurious Emissions

Serial Number:	CR22040067-RF-S1	Test Date:	2022-05-26~2022-06-10
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Gary Ling, Nick Tang	Test Result:	Pass

Report No.: CR22040067-00A

Environmental Conditions:							
Temperature: $(^{\circ}\mathbb{C})$	24.7~26.2	Relative Humidity: (%)	59~65	ATM Pressure: (kPa)	100.1		

Test Equipment List and Details:

Test Equipment List and Details.							
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18		
R&S	EMI Test Receiver	ESR3	ESR3 102724 2021-07-22		2022-07-21		
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2021-07-18	2022-07-17		
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2021-07-18	2022-07-17		
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17		
Audix	Test Software	E3	201021 (V9)	N/A	N/A		
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12		
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21		
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2021-08-08	2022-08-07		
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2021-08-08	2022-08-07		
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09		
Audix	Test Software	E3	201021 (V9)	N/A	N/A		
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2024-02-04		
AH	Preamplifier	PAM-1840VH	190	2021-11-19	2022-11-18		
MICRO-COAX	Coaxial Cable	UFB142A-1- 2362-200200	235772-001	2021-08-08	2022-08-07		
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2021-08-08	2022-08-07		

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

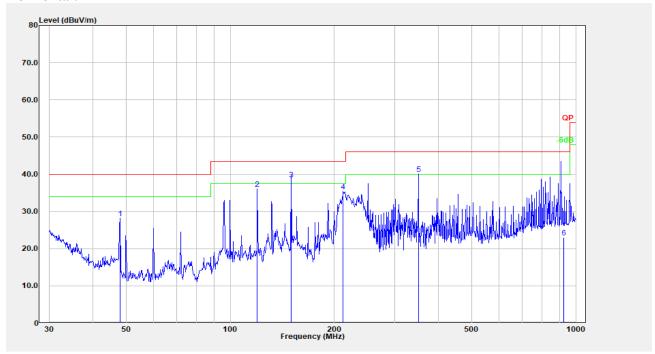
Test Data:

Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.10 Figure 8, the worst orientation was photographed and it's data was recorded.

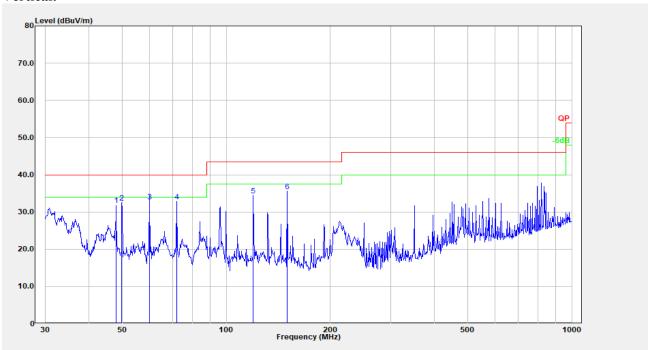
1) 30MHz-1GHz(BDR Low channel was the worst)

Horizontal:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	47.994	44.48	-16.24	28.24	40.00	11.76	Peak
2	119.856	47.77	-11.75	36.02	43.50	7.48	Peak
3	149.981	50.93	-12.26	38.67	43.50	4.83	QP
4	212.270	48.10	-12.69	35.41	43.50	8.09	Peak
5	350.477	50.31	-10.23	40.08	46.00	5.92	Peak
6	924.050	23.84	-0.88	22.96	46.00	23.04	QP

Vertical:

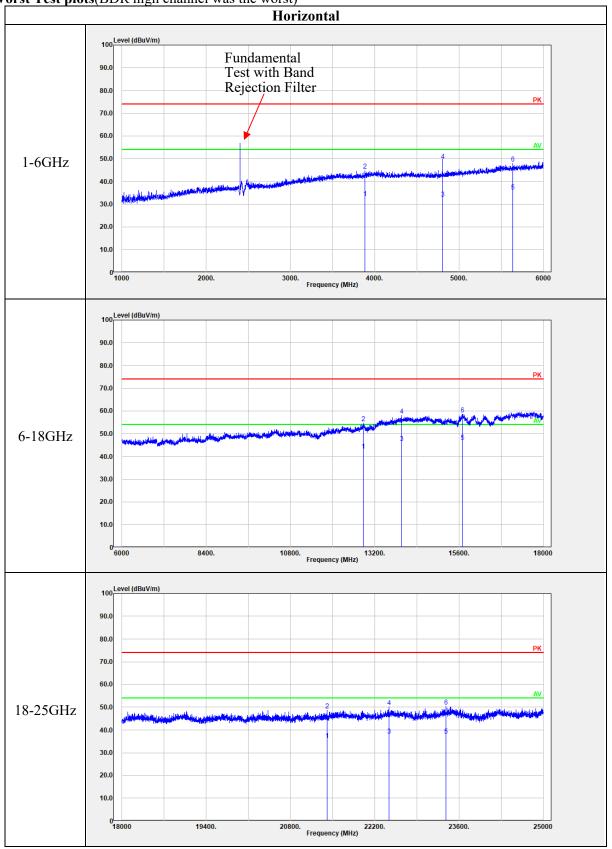


No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	47.994	48.18	-16.24	31.94	40.00	8.06	Peak
2	49.881	49.79	-17.31	32.48	40.00	7.52	Peak
3	60.010	50.54	-17.64	32.90	40.00	7.10	QP
4	71.832	49.80	-16.91	32.89	40.00	7.11	Peak
5	119.856	46.24	-11.75	34.49	43.50	9.01	Peak
6	150.011	47.81	-12.26	35.55	43.50	7.95	Peak

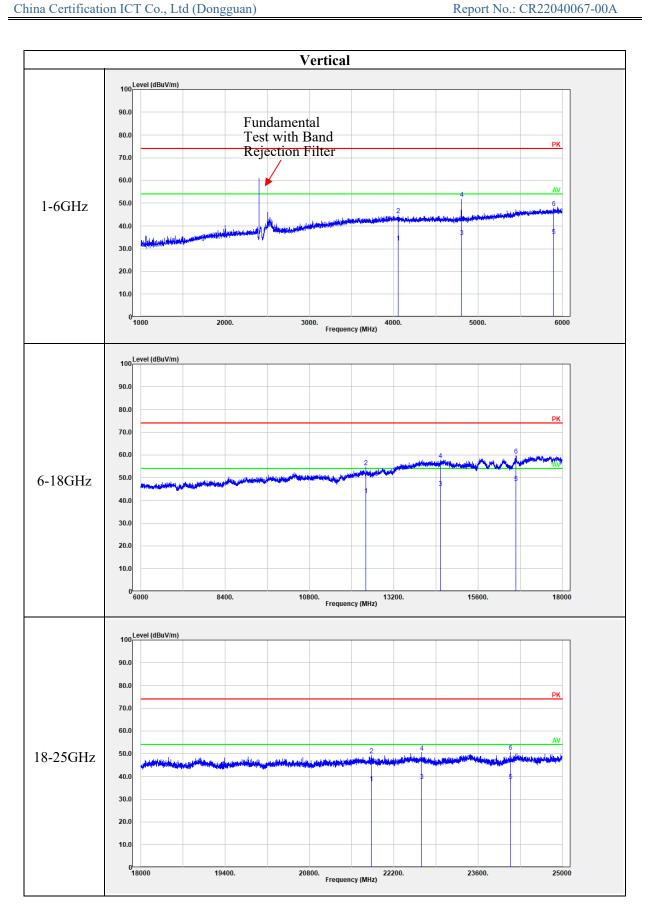
2) 1-25GHz: BDR Mode(GFSK) was the worst:

	Reco	Receiver			B 16		
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Char	nnel: 2402 MH	Z		
2402.00	68.83	PK	Н	31.51	100.34	N/A	N/A
2402.00	52.35	AV	Н	31.51	83.86	N/A	N/A
2402.00	72.77	PK	V	31.51	104.28	N/A	N/A
2402.00	56.25	AV	V	31.51	87.76	N/A	N/A
2390.00	27.94	PK	V	31.46	59.40	74.00	14.60
2390.00	13.84	AV	V	31.46	45.30	54.00	8.70
4804.00	42.98	PK	V	10.91	53.89	74.00	20.11
4804.00	25.44	AV	V	10.91	36.35	54.00	17.65
7206.00	34.09	PK	V	14.22	48.31	74.00	25.69
7206.00	21.94	AV	V	14.22	36.16	54.00	17.84
			Middle Ch	annel: 2441 MI	Hz		
2441.00	69.81	PK	Н	31.61	101.42	N/A	N/A
2441.00	53.22	AV	Н	31.61	84.83	N/A	N/A
2441.00	73.24	PK	V	31.61	104.85	N/A	N/A
2441.00	56.64	AV	V	31.61	88.25	N/A	N/A
4882.00	38.81	PK	V	11.07	49.88	74.00	24.12
4882.00	22.90	AV	V	11.07	33.97	54.00	20.03
7323.00	34.51	PK	V	14.80	49.31	74.00	24.69
7323.00	21.28	AV	V	14.80	36.08	54.00	17.92
			High Cha	nnel: 2480 MH	Z		
2480.00	69.01	PK	Н	31.64	100.65	N/A	N/A
2480.00	52.30	AV	Н	31.64	83.94	N/A	N/A
2480.00	74.15	PK	V	31.64	105.79	N/A	N/A
2480.00	57.42	AV	V	31.64	89.06	N/A	N/A
2483.50	27.43	PK	V	31.64	59.07	74.00	14.93
2483.50	14.28	AV	V	31.64	45.92	54.00	8.08
4960.00	37.61	PK	V	11.23	48.84	74.00	25.16
4960.00	23.13	AV	V	11.23	34.36	54.00	19.64
7440.00	33.08	PK	V	15.26	48.34	74.00	25.66
7440.00	20.87	AV	V	15.26	36.13	54.00	17.87

Worst Test plots(BDR high channel was the worst)



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4.3 20 dB Emission Bandwidth:

Serial Number:	CR22040067-RF-S1	Test Date:	2022/5/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Report No.: CR22040067-00A

Environmental Conditions:

Temperature: $(^{\circ}\mathbb{C})$	24.2	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.3
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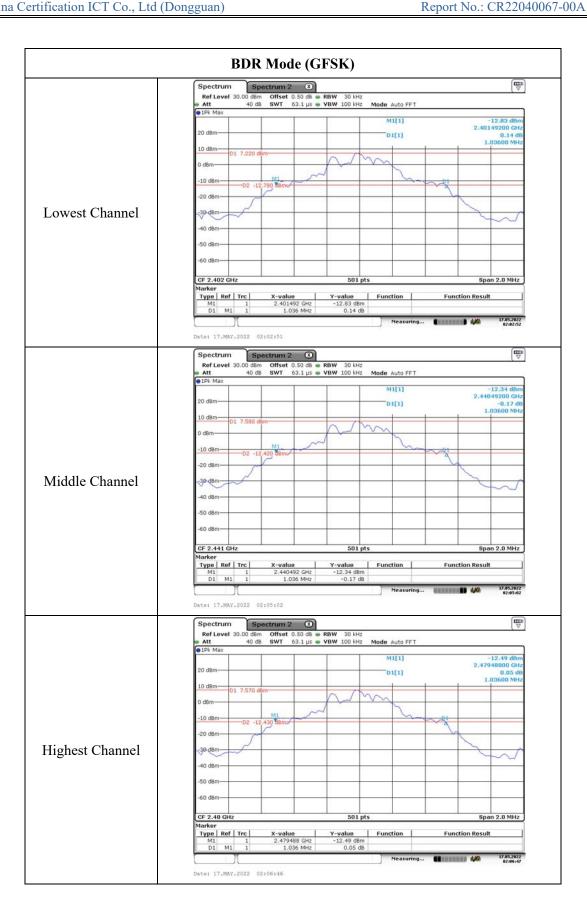
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2021-10-10	2022-10-09
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	2021-08-08	2022-08-07

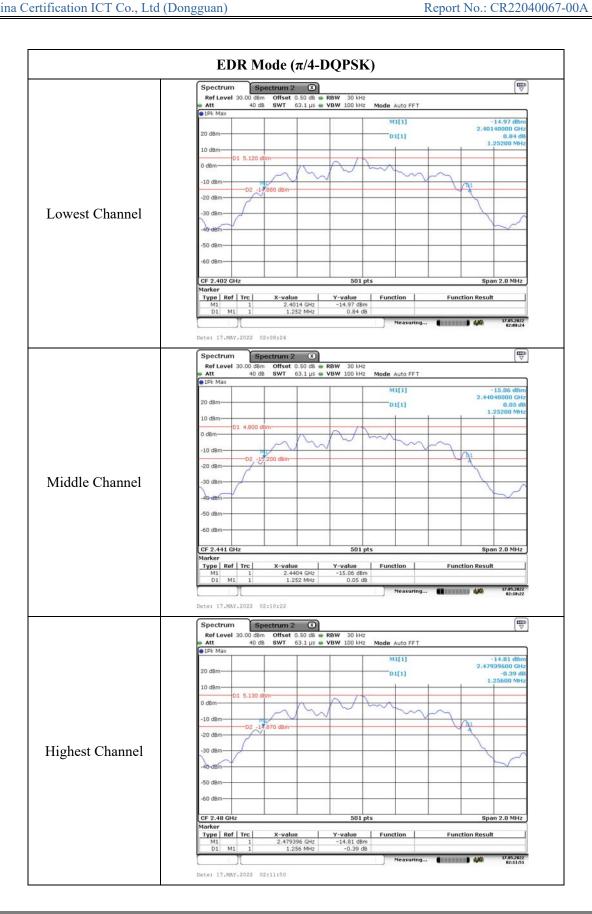
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

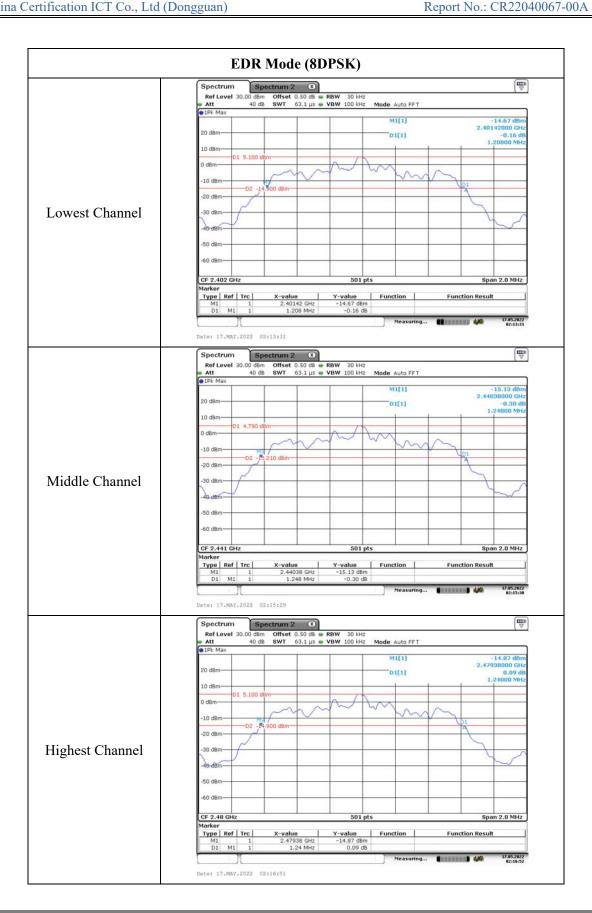
Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
DDD M. 1.	Lowest	2402	1.036
BDR Mode (GFSK)	Middle	2441	1.036
(Of Sit)	Highest	2480	1.036
EDD M. 1.	Lowest	2402	1.252
EDR Mode (π/4-DQPSK)	Middle	2441	1.252
(M4-DQI SIC)	Highest	2480	1.256
EDD M 1	Lowest	2402	1.208
EDR Mode (8DPSK)	Middle	2441	1.248
(obi bk)	Highest	2480	1.240



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4.4 Channel Separation:

Serial Number:	CR22040067-RF-S1	Test Date:	2022/5/17	
Test Site:	RF	Test Mode:	Transmitting	
Tester:	Great Qiao	Test Result:	Pass	

Report No.: CR22040067-00A

Environmental Conditions:

Temperature: (°C) 24.2	Relative Humidity: 60	ATM Pressure: (kPa) 100.3	
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2021/10/10	2022/10/9
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	2021/8/8	2022/8/7

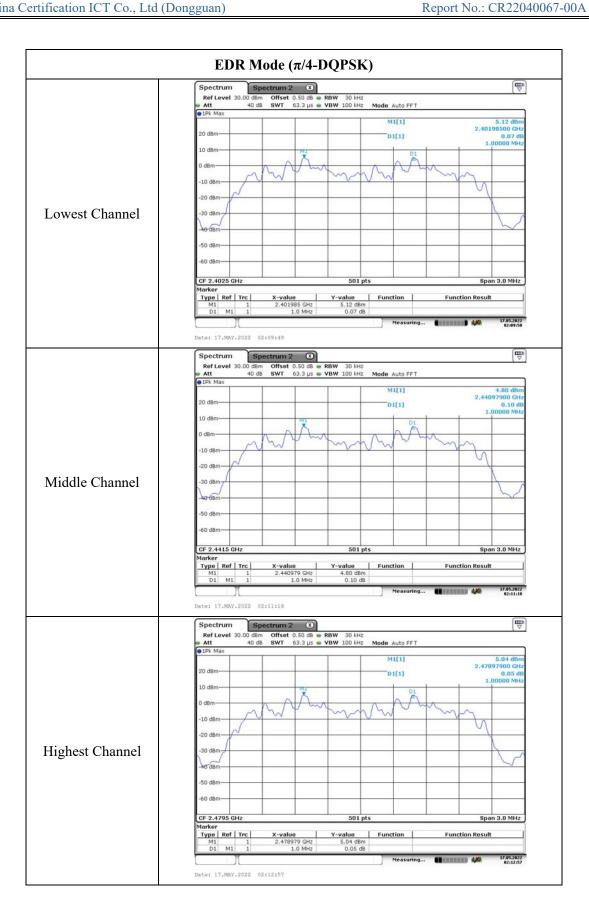
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

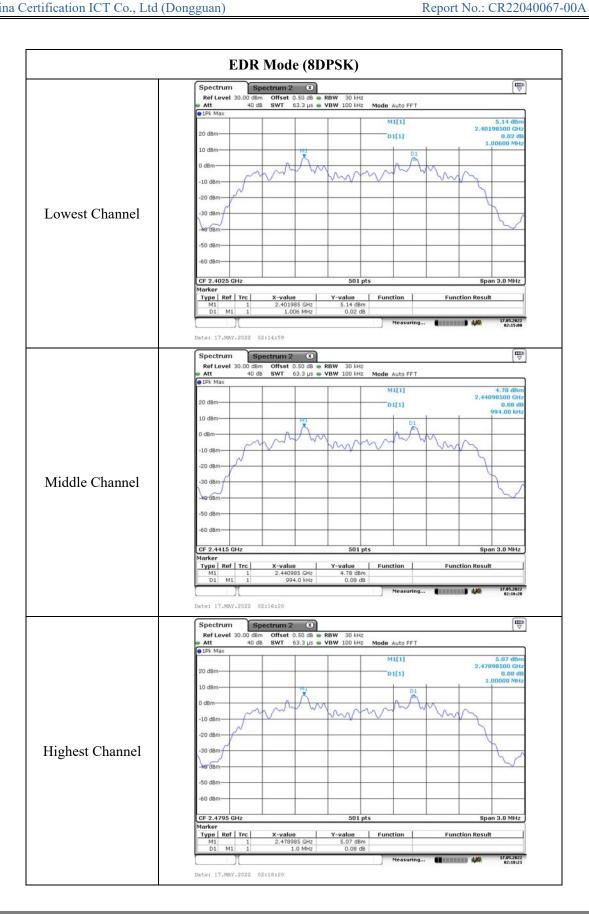
Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
DDD M 1	2402	1	0.691
BDR Mode (GFSK)	2441	1	0.691
(Of Sit)	2480	1	0.691
EDD M 1	2402	1	0.835
EDR Mode (π/4-DQPSK)	2441	1	0.835
(M4-DQI SIC)	2480	1	0.837
EDD M. 1.	2402	1.006	0.805
EDR Mode (8DPSK)	2441	0.994	0.832
(ODI DIC)	2480	1	0.827



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4.5 Number Of Hopping Frequency:

Serial Number:	CR22040067-RF-S1	Test Date:	2022/5/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Report No.: CR22040067-00A

Environmental Conditions:

Temperature: (°C) 24.4	Relative Humidity: 58 (%)	ATM Pressure: (kPa)	100.2
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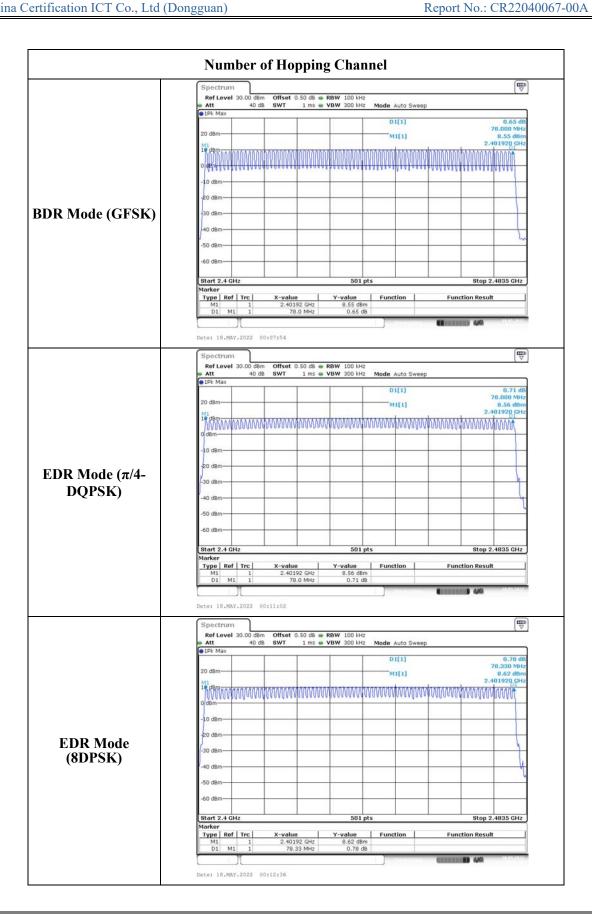
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2021/10/10	2022/10/9
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	2021/8/8	2022/8/7

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Frequency Range (MHz)	Number of Hopping Channel	Limits
GFSK	2400-2483.5	79	≥15
π/4-DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15



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4.6 Time Of Occupancy(Dwell Time):

Serial Number:	CR22040067-RF-S1	Test Date:	2022/5/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Report No.: CR22040067-00A

Environmental Conditions:

Temperature: (°C) 24.4	Relative Humidity: 58 (%)	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2021/10/10	2022/10/9
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	2021/8/8	2022/8/7

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

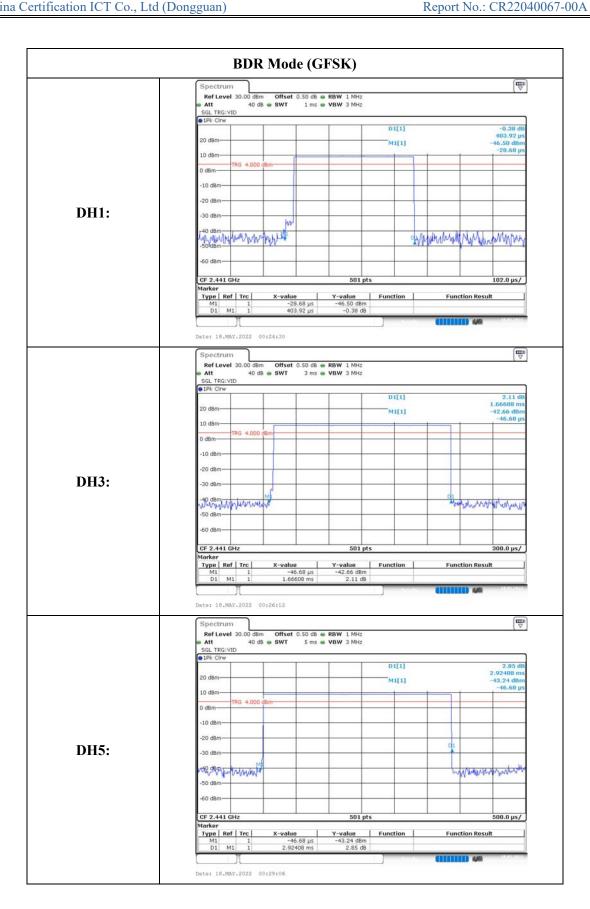
Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
DDD M 1	DH1	2441	0.404	0.129	0.400
BDR Mode (GFSK)	DH3	2441	1.666	0.267	0.400
(GI SIC)	DH5	2441	2.924	0.312	0.400
EDD M 1	2DH1	2441	0.413	0.132	0.400
EDR Mode (π/4-DQPSK)	2DH3	2441	1.672	0.268	0.400
(M4-DQI SIC)	2DH5	2441	2.944	0.314	0.400
EDD M 1	3DH1	2441	0.412	0.132	0.400
EDR Mode (8DPSK)	3DH3	2441	1.684	0.269	0.400
(obi sk)	3DH5	2441	2.954	0.315	0.400

Note:

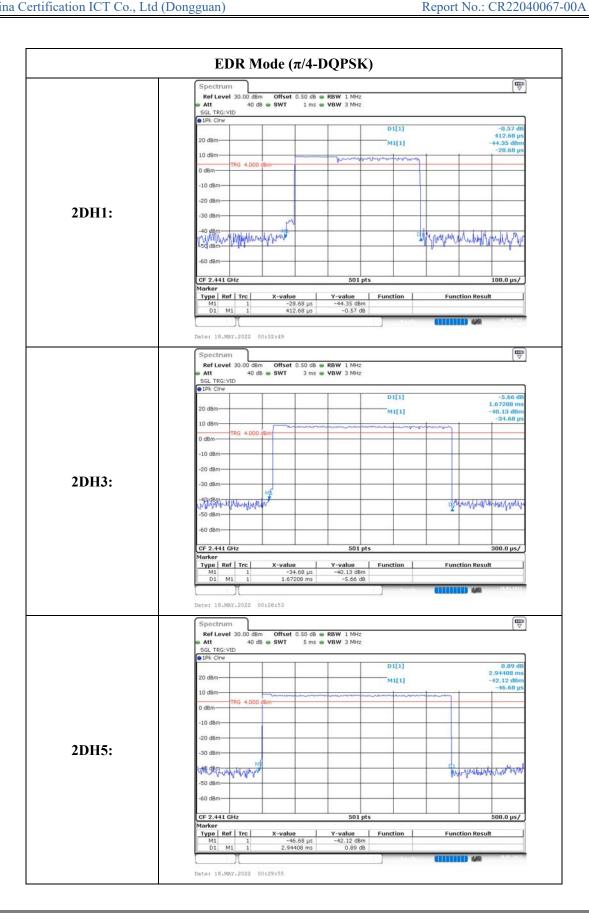
DH1:Dwell time=Pulse time (ms) \times (1600/2/79) \times 31.6 s

DH3:Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s

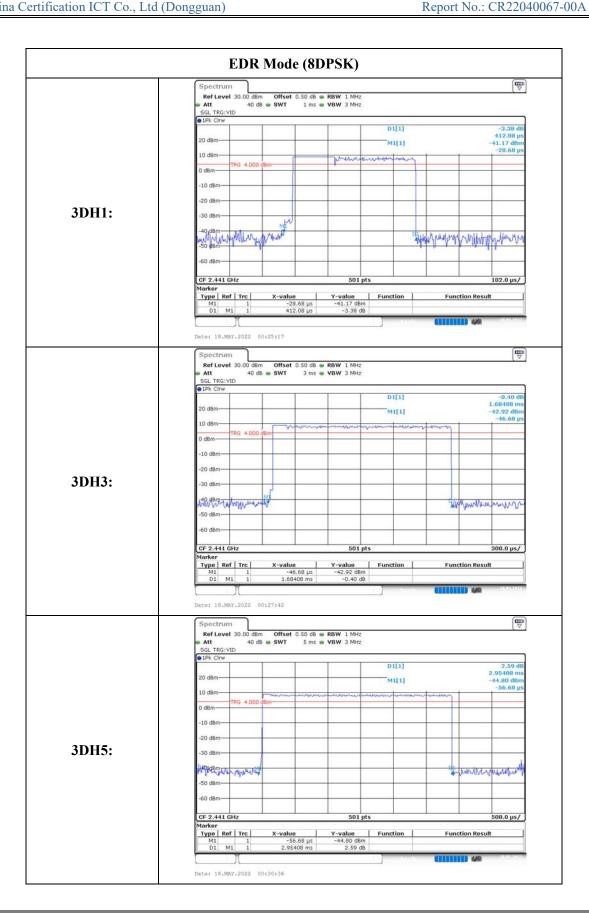
DH5:Dwell time=Pulse time (ms) \times (1600/6/79) \times 31.6 s



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4.7 Peak Conducted Output Power:

Serial Number:	CR22040067-RF-S1	Test Date:	2022/5/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Report No.: CR22040067-00A

Environmental Conditions:					
Temperature: (°C)	24.2	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.3

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	2021-08-08	2022-08-07

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
DDD M. 1.	2402	9.08	21
BDR Mode (GFSK)	2441	9.50	21
(GI SIC)	2480	9.53	21
EDD M. 1.	2402	9.00	21
EDR Mode (π/4-DQPSK)	2441	8.88	21
(M4-DQ15K)	2480	8.89	21
EDD M. 1.	2402	9.00	21
EDR Mode (8DPSK)	2441	8.84	21
(obl SK)	2480	9.08	21

4.8 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	CR22040067-RF-S1	Test Date:	2022-05-17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Report No.: CR22040067-00A

Environmental Conditions:						
Temperature: $(^{\circ}\mathbb{C})$	24.2	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.3	

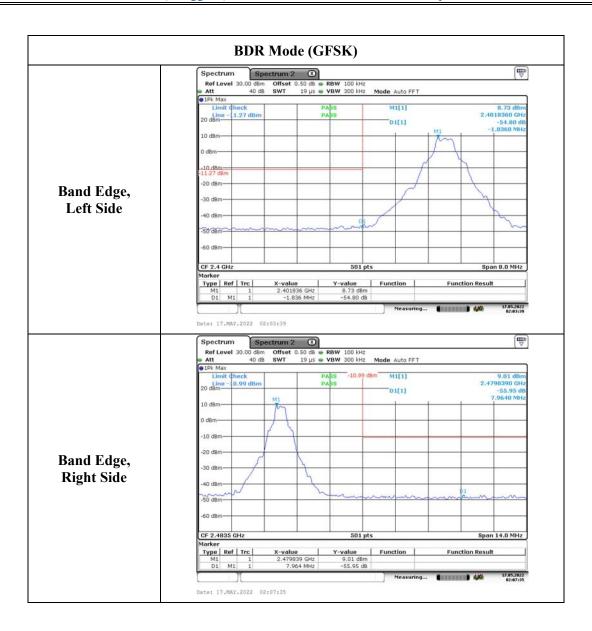
Test Equipment List and Details:

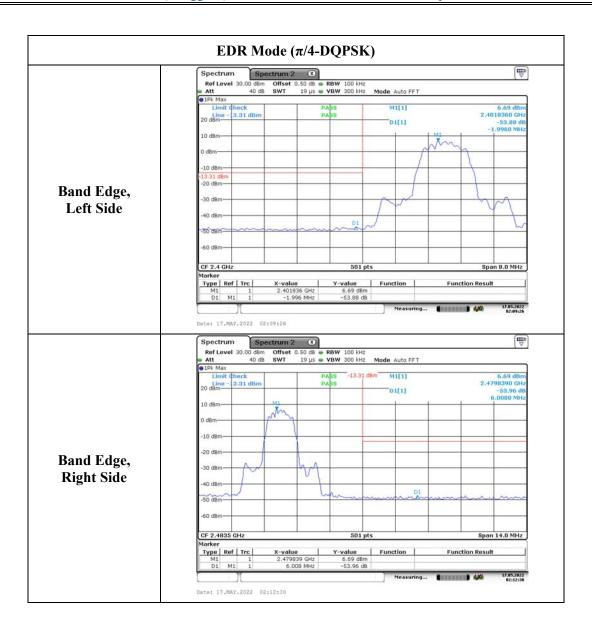
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
R&S	Spectrum Analyzer	FSV40	101943	2021-10-10	2022-10-09	
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A	
Mini-Circuits	DC Block	BLK-18-S+	1554403	2021-08-08	2022-08-07	

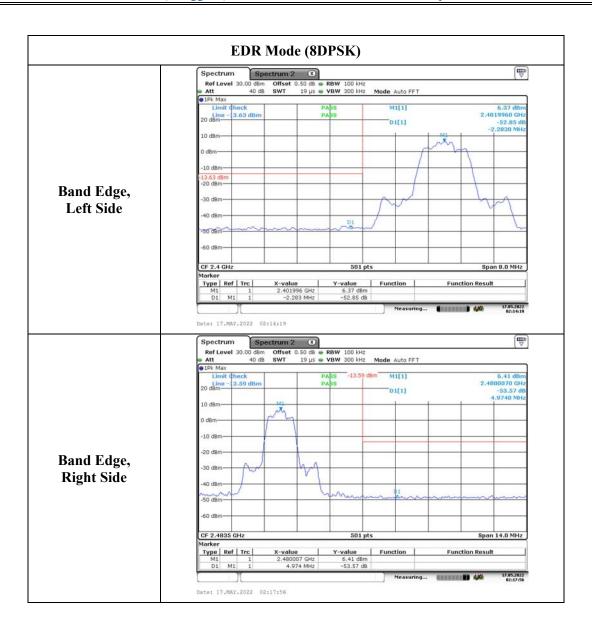
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

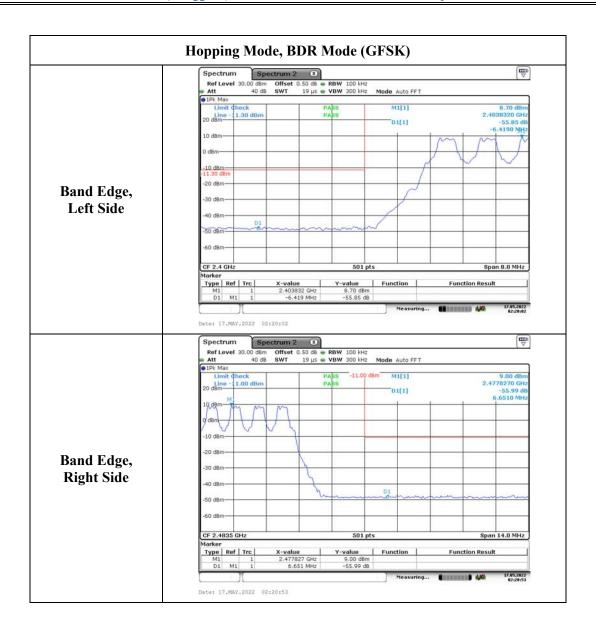
Test Data:

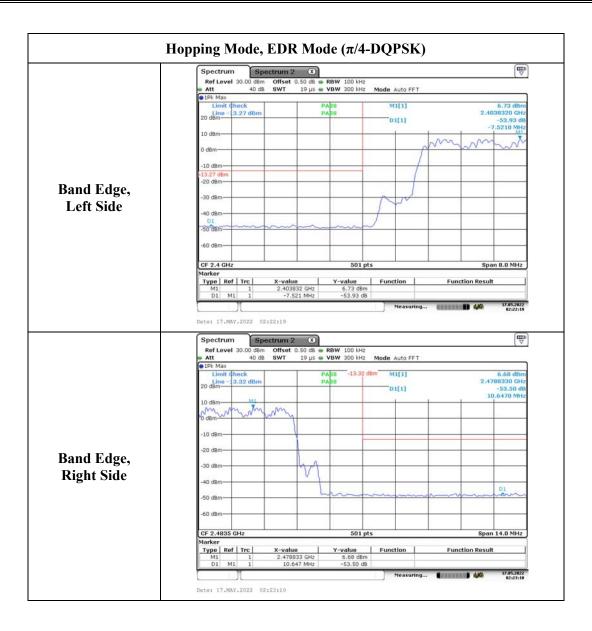
Please refer to the following Plots.













5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

FCC §15.247 (i)

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §1.1307(b)(1) of this chapter.

Report No.: CR22040067-00A

5.2 Procedure

According to §1.1307(b)(3)(ii)(B)

Simultaneous Transmission with both SAR-based and MPE-Based Test Exemptions

This case is described in detail in § 1.1307(b)(3)(ii)(B) and covers the situations where both SAR-based and MPE-based exemption may be considered for test exemption in fixed, mobile, or portable device exposure conditions. For these cases, a device with multiple RF sources transmitting simultaneously will be considered an RF exempt device if the condition of Formula (1) is satisfied.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$
 (1)

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for P_{th} , including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

 P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

 $P_{th,i}$ = the exemption threshold power (P_{th}) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

 ERP_i = the ERP of fixed, mobile, or portable RF source j.

 $ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

 $Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure $Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

5.3 EUT Information ▲:

Operation Modes	Operation Frequency	Conducted output power including	Maximum Antenna Gain (dBi)		
Operation Wodes	(MHz)	Tune-up Tolerance (dBm)	Antenna 0	Antenna 1	
WLAN	2412-2462	26	2.50	/	
BLE	2402-2480	7	2.50	/	
BDR/EDR	2402-2480	10	2.50	/	
WCDMA B2	1850-1910	25	2.15	3.36	
WCDMA B4	1710-1755	25	2.63	2.46	
WCDMA B5	824-849	25	2.08	-1.19	
LTE B2	1850-1910	25	2.15	3.36	
LTE B4	1710-1755	25	2.63	2.46	
LTE B5	824-849	25	2.08	-1.19	
LTE B12	699-716	25	1.70	-2.17	
LTE B13	777-787	25	1.92	-2.41	
LTE B14	788-798	25	1.89	-2.41	
LTE B66	1710-1780	25	2.65	2.82	
LTE B71	663-698	25	1.91	-1.65	

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Note:

The devices may contain certified WWAN Module, FCC ID: XMR202008EC25AFXD The WWAN and Bluetooth or WLAN can transmit simultaneously.

5.4 Measurement Result

Radio	Frequency (MHz)	Distance (mm)	P _{th} (mW)	Maximum Conducted Power including Tune-up	Antenna Gain (dBi)	Conducted Power or ERP	
				Tolerance (dBm)		dBm	mW
WLAN	2412-2462	200	3060	26	2.50	26.35	431.52
BLE	2402-2480	200	3060	7	2.50	7.35	5.43
BDR/EDR	2402-2480	200	3060	10	2.50	10.35	10.84
WCDMA B2	1850-1910	200	3060	25	3.36	26.21	417.83
WCDMA B4	1710-1755	200	3060	25	2.63	25.48	353.18
WCDMA B5	824-849	200	1681	25	2.08	25	316.23
LTE B2	1850-1910	200	3060	25	3.36	26.21	417.83
LTE B4	1710-1755	200	3060	25	2.63	25.48	353.18
LTE B5	824-849	200	1681	25	2.08	25	316.23
LTE B12	699-716	200	1426	25	1.70	25	316.23
LTE B13	777-787	200	1585	25	1.92	25	316.23
LTE B14	788-798	200	1608	25	1.89	25	316.23
LTE B66	1710-1780	200	3060	25	2.82	25.67	368.98
LTE B71	663-698	200	1353	25	1.91	25	316.23

$$\sum_{i=1}^{a} \frac{P_i}{P_{\text{th},i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\; Limit_k}$$

$$=\!\!P_{WLAN}\,/\,P_{th}+P_{WAAN}\,/\,P_{th}$$

$$=431.52/3060 + 316.23/1353$$

$$=0.375$$

Result: The device meet FCC MPE at 20 cm distance.

===== END OF REPORT =====