



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: QINGDAO HAINERGY TECHNOLOGY CORP.,LIMITED

Address: Room 309 (A), Baotai Office Building, No. 45 Beijing Road, Bonded Port Area, Qingdao, SHANDONG, China

FCC ID: 2BDQO-HNBMD14H

Product Name: Personal Computer

Standard(s): 47 CFR Part 15, Subpart C(15.247)
ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

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

Report Number: 2403T78885E-RF-00B

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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.

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.

Declarations

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CONTENTS

DOCUMENT REVISION HISTORY	5
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2 DESCRIPTION OF TEST CONFIGURATION.....	7
1.2.1 EUT Operation Condition:.....	7
1.2.2 Support Equipment List and Details	7
1.2.3 Support Cable List and Details	7
1.2.4 Block Diagram of Test Setup.....	8
1.3 MEASUREMENT UNCERTAINTY	9
2. SUMMARY OF TEST RESULTS	10
3. REQUIREMENTS AND TEST PROCEDURES	11
3.1 AC LINE CONDUCTED EMISSIONS.....	11
3.1.1 Applicable Standard.....	11
3.1.2 EUT Setup.....	12
3.1.3 EMI Test Receiver Setup	12
3.1.4 Test Procedure	13
3.1.5 Corrected Amplitude & Margin Calculation.....	13
3.2 RADIATED SPURIOUS EMISSIONS.....	14
3.2.1 Applicable Standard.....	14
3.2.2 EUT Setup.....	14
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	15
3.2.4 Test Procedure	16
3.2.5 Corrected Amplitude & Margin Calculation.....	16
3.3 20 DB EMISSION BANDWIDTH	17
3.3.1 Applicable Standard.....	17
3.3.2 EUT Setup.....	17
3.3.3 Test Procedure	17
3.4 CHANNEL SEPARATION	19
3.4.1 Applicable Standard.....	19
3.4.2 EUT Setup.....	19
3.4.3 Test Procedure	19
3.5 NUMBER OF HOPPING FREQUENCY	20
3.5.1 Applicable Standard.....	20
3.5.2 EUT Setup.....	20
3.5.3 Test Procedure	20
3.6 TIME OF OCCUPANCY(DWELL TIME).....	21
3.6.1 Applicable Standard.....	21
3.6.2 EUT Setup.....	21
3.6.3 Test Procedure	21
3.7 MAXIMUM CONDUCTED OUTPUT POWER.....	22
3.7.1 Applicable Standard.....	22
3.7.2 EUT Setup.....	22
3.7.3 Test Procedure	22
3.8 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	23
3.8.1 Applicable Standard.....	23
3.8.2 EUT Setup.....	23
3.8.3 Test Procedure	23

3.9 ANTENNA REQUIREMENT.....	24
3.9.1 Applicable Standard.....	24
3.9.2 Judgment.....	24
4. TEST DATA AND RESULTS	25
4.1 AC LINE CONDUCTED EMISSIONS	25
4.2 RADIATED SPURIOUS EMISSIONS.....	28
4.2.1 9 kHz – 1 GHz:	28
4.2.2 1GHz – 25 GHz:	31
4.3 20 dB EMISSION BANDWIDTH	43
4.4 99% OCCUPIED BANDWIDTH.....	47
4.5 CHANNEL SEPARATION	51
4.6 NUMBER OF HOPPING FREQUENCY	55
4.7 TIME OF OCCUPANCY (DWEELL TIME).....	58
4.8 MAXIMUM CONDUCTED OUTPUT POWER.....	62
4.9 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....	66
5. EUT PHOTOGRAPHS	70
6. TEST SETUP PHOTOGRAPHS	71

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403T78885E-RF-00B	Original Report	2024/6/18

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Personal Computer
Trade Name:	
EUT Model:	HNBMD14HAWREG
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	9.72 dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	DC 19V from adapter or DC 11.4V from battery
Serial Number:	RF: 2MBO-2 CE&RE: 2MBO-1
EUT Received Date:	2024/5/30
EUT Received Status:	Good

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 performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2441
Highest	2480

Antenna Information Detail▲:

Antenna Type		input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
AUX ANT	FPC	50	2400-2500	3.23

The Method of §15.203 Compliance either:

☒ Antenna was permanently attached to the unit.

☐ Antenna use a unique type of connector to attach to the EUT.

☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

Accessory Description	Manufacturer	Model
Adapter	SHENZHEN BSY TECHNOLOGY CO.,LTD	BSY065T1903423 D

1.2 Description of Test Configuration

1.2.1 EUT 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:	DRTU.exe		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:			
Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
GFSK	Default	Default	Default
$\pi/4$ -DQPSK	Default	Default	Default
8DPSK	Default	Default	Default

1.2.2 Support Equipment List and Details

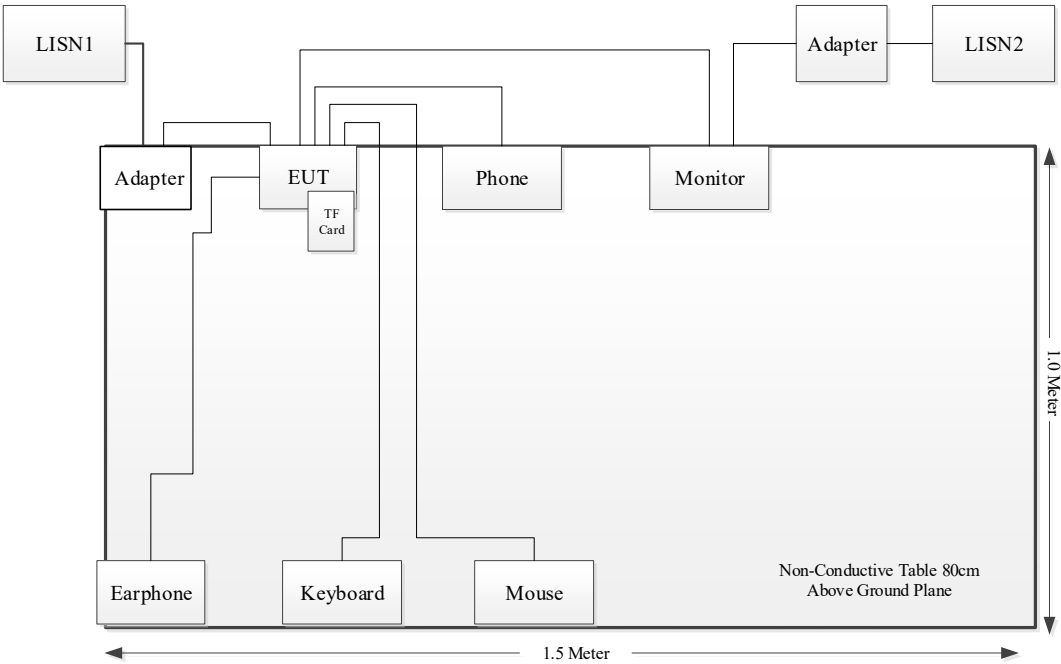
Manufacturer	Description	Model	Serial Number
PHILIPS	Keyboard	SPT6234	K234210510746
PHILIPS	Mouse	SPT6234	C234210506222
CLC	Earphone	Whiteview5.0	EP21106054
DongFeng	Phone	P3	UP3_BSGF187E000165
ViewSonic	Monitor	VX1630-4K-HD	W9F203900071
ViewSonic	Adapter	HKA01212010-XQ	H12G94218P010302
SanDisk	TF Card	16 GB	1183DRECV11N

1.2.3 Support Cable List and Details

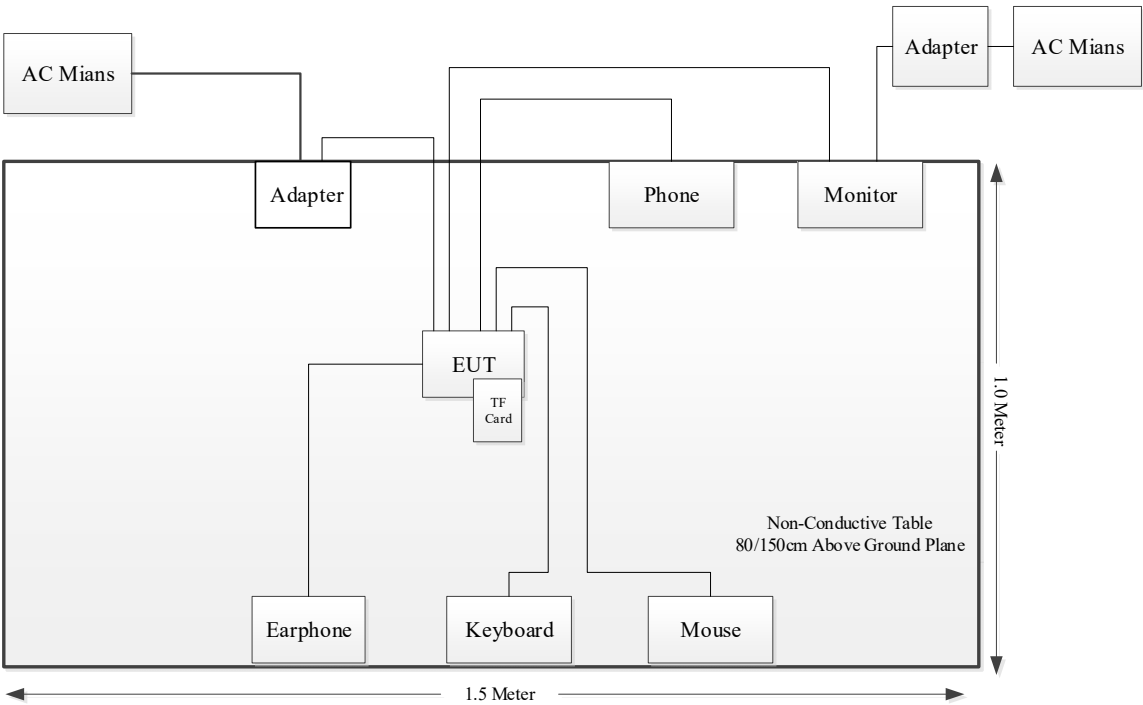
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	NO	NO	1.5	Adapter	EUT
Keyboard Cable	NO	NO	1.5	EUT	Keyboard
Mouse Cable	NO	NO	1.5	EUT	Mouse
HDMI Cable	NO	NO	1.2	EUT	Monitor
Earphone Cable	NO	NO	1.2	EUT	Earphone
Power Cable	NO	Yes	1.5	Monitor	Adapter
USB Cable	NO	NO	1	EUT	Phone

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Spurious Emissions:



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	$\pm 5\%$
RF output power, conducted	$\pm 0.61\text{dB}$
Power Spectral Density, conducted	$\pm 0.61\text{ dB}$
Unwanted Emissions, radiated	9k~30MHz: 4.12dB, 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	$\pm 1.26\text{ dB}$
Temperature	$\pm 1^{\circ}\text{C}$
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 §15.203	Antenna Requirement	PASS
FCC §15.207(a)	AC Line Conducted Emissions	PASS
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious Emission	PASS
FCC §15.247(a)(1)	20 dB Emission Bandwidth	PASS
FCC §15.247(a)(1)	Channel Separation	PASS
FCC §15.247(a)(1)(iii)	Number of Hopping Frequency	PASS
FCC §15.247(a)(1)(iii)	Time of Occupancy (dwell time)	PASS
FCC §15.247(b)(1)	Maximum Conducted Output Power	PASS
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	PASS

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 μ 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.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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:

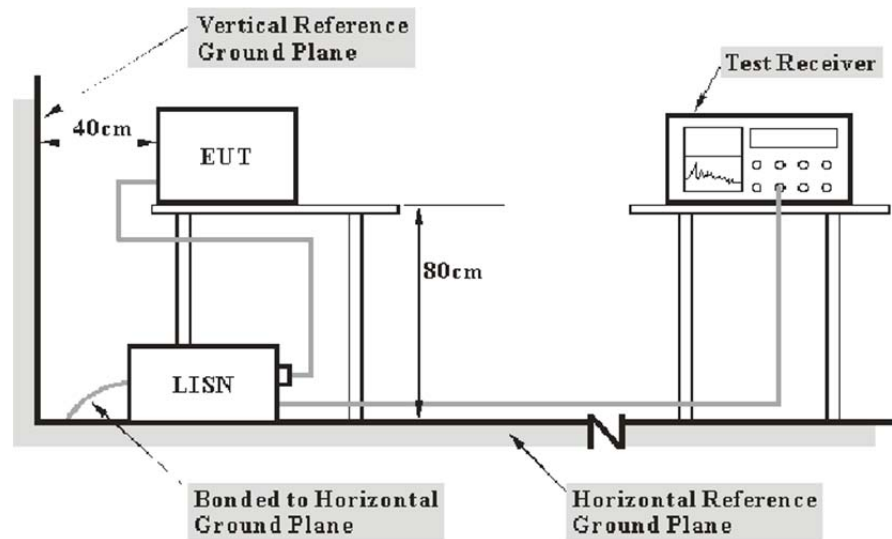
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ 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 10cm.

3.1.3 EMI Test Receiver Setup

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

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.

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 Radiated Spurious Emissions

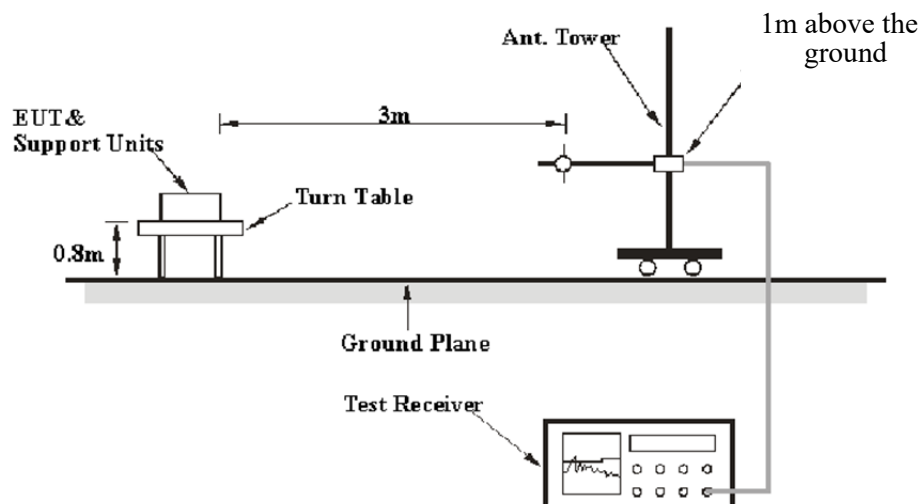
3.2.1 Applicable Standard

FCC §15.247 (d);

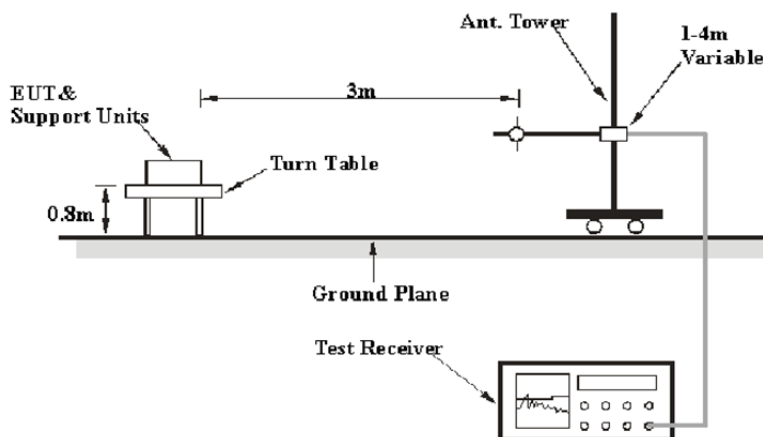
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

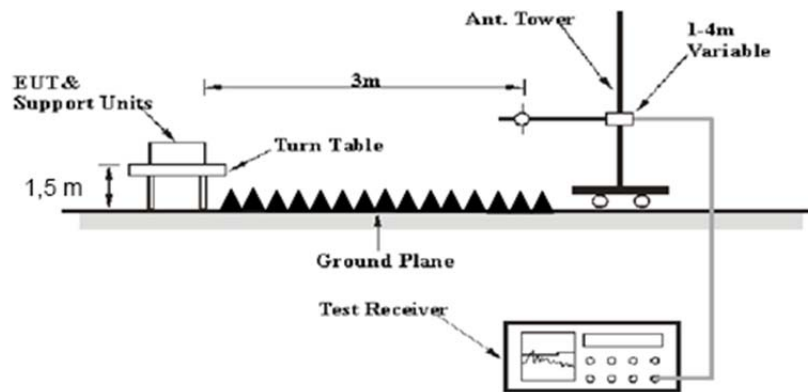
3.2.2 EUT Setup

9kHz - 30MHz:



30MHz - 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 40cm long in the middle.

The spacing between the peripherals was 10cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

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	Measurement
9 kHz – 150 kHz	300 Hz	1 kHz	/	PK
	/	/	200 Hz	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK
	/	/	9 kHz	QP/AV
30MHz – 1000 MHz	120 kHz	300 kHz	/	PK
	/	/	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	AV

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

The spurious emissions which below the limit more than 20dB was not be recorded.

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 9 kHz-1 GHz except 9–90 kHz, 110–490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

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

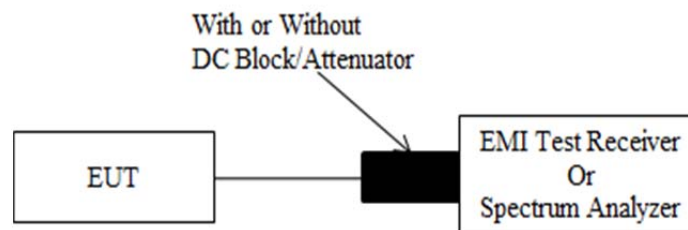
3.3 20 dB Emission Bandwidth

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.

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

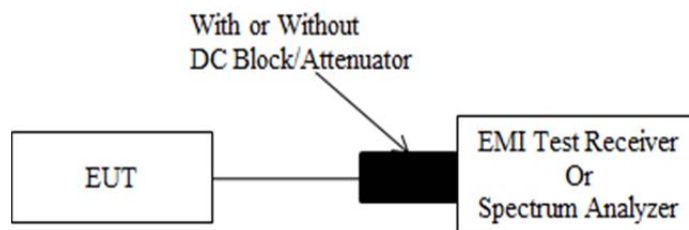
3.4 Channel Separation

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.

3.4.2 EUT Setup



3.4.3 Test 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) $\geq$ 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.

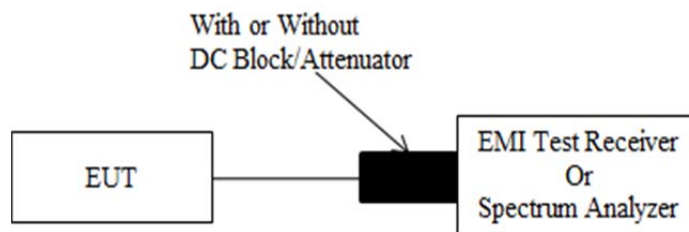
3.5 Number Of Hopping Frequency

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.

3.5.2 EUT Setup



3.5.3 Test 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 $\geq$ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize

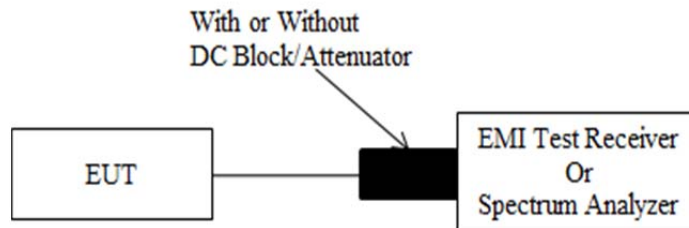
It might prove necessary to break the span up into sub ranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

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.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.4

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

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

$$\text{(Number of hops in the period specified in the requirements)} = \text{(number of hops on spectrum analyzer)} \times \text{(period specified in the requirements / analyzer sweep time)}$$

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

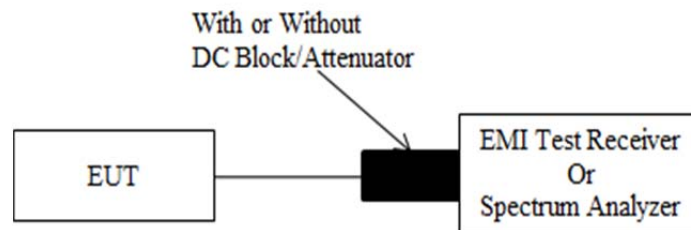
3.7 Maximum Conducted Output Power

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

3.7.2 EUT Setup



3.7.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation, Offset the Insertion loss of the RF cable, DC Block/ Attenuator into the spectrum analyzer. The hopping shall be disabled for this test:

- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW ≥ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

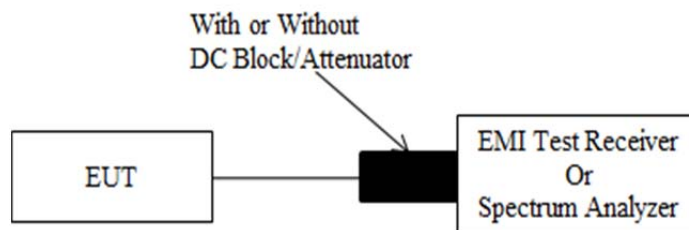
3.8 100 kHz Bandwidth Of Frequency Band Edge

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)).

3.8.2 EUT Setup



3.8.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.6

For band-edge measurements, use the band-edge procedure in 6.10. Band-edge measurements shall be tested both on single channels, and with the EUT hopping.

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements. 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.

3.9.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2MBO-1	Test Date:	2024/6/6
Test Site:	CE	Test Mode:	Transmitting(maximum output power mode, GFSK high channel)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

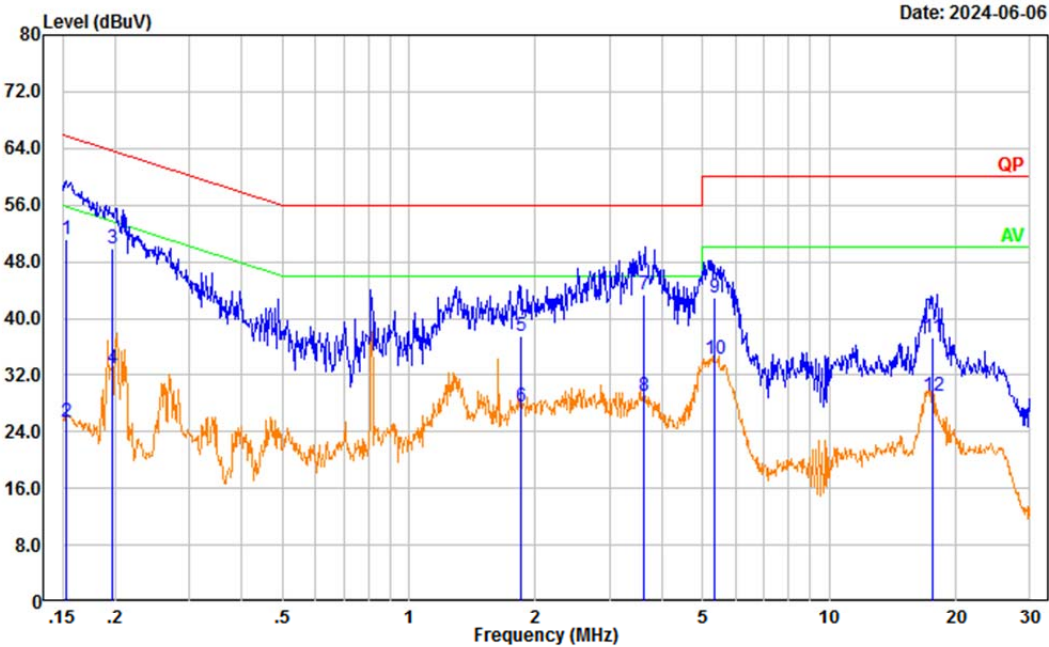
Temperature: (°C)	27.4	Relative Humidity: (%)	66	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2024/4/1	2025/3/31
R&S	EMI Test Receiver	ESR3	103104	2024/5/10	2025/5/9
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2024/1/15	2025/1/14
Audix	Test Software	E3	191218 (V9)	N/A	N/A

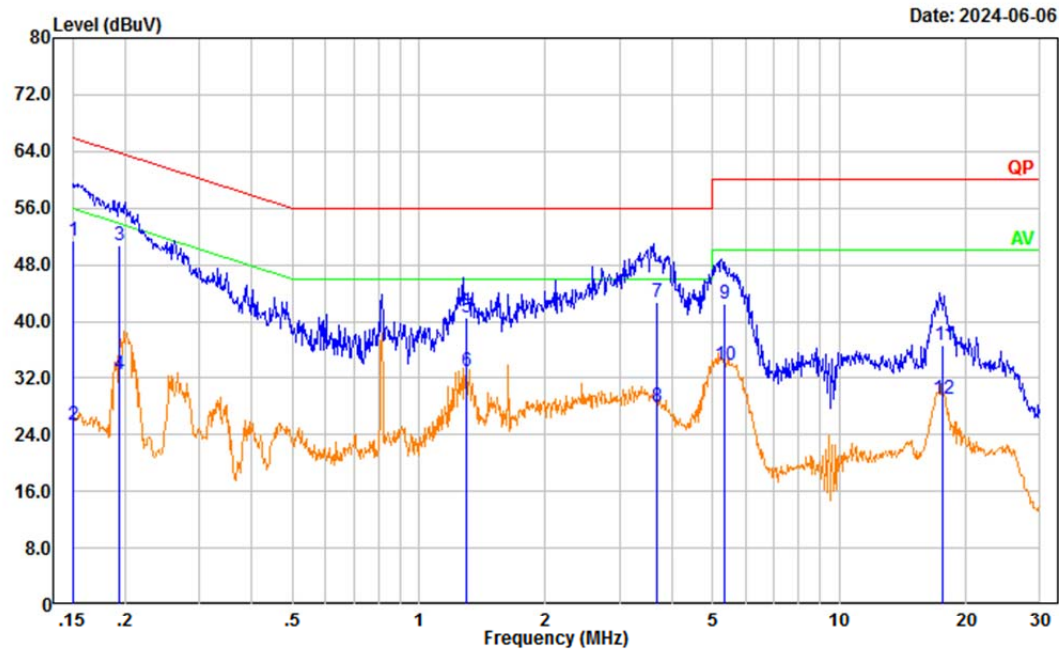
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Project No.: 2403T78885E-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.153	40.93	10.29	51.22	65.82	14.60	QP
2	0.153	15.10	10.29	25.39	55.82	30.43	Average
3	0.198	39.84	10.02	49.86	63.71	13.85	QP
4	0.198	22.86	10.02	32.88	53.71	20.83	Average
5	1.849	27.08	10.48	37.56	56.00	18.44	QP
6	1.849	17.06	10.48	27.54	46.00	18.46	Average
7	3.620	33.17	10.29	43.46	56.00	12.54	QP
8	3.620	18.80	10.29	29.09	46.00	16.91	Average
9	5.322	32.63	10.39	43.02	60.00	16.98	QP
10	5.322	23.84	10.39	34.23	50.00	15.77	Average
11	17.548	27.07	10.16	37.23	60.00	22.77	QP
12	17.548	18.97	10.16	29.13	50.00	20.87	Average

Project No.: 2403T78885E-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	40.89	10.51	51.40	65.94	14.54	QP
2	0.151	14.80	10.51	25.31	55.94	30.63	Average
3	0.193	40.22	10.51	50.73	63.91	13.18	QP
4	0.193	22.02	10.51	32.53	53.91	21.38	Average
5	1.298	30.17	10.42	40.59	56.00	15.41	QP
6	1.298	22.55	10.42	32.97	46.00	13.03	Average
7	3.676	32.44	10.37	42.81	56.00	13.19	QP
8	3.676	17.62	10.37	27.99	46.00	18.01	Average
9	5.330	32.27	10.32	42.59	60.00	17.41	QP
10	5.330	23.60	10.32	33.92	50.00	16.08	Average
11	17.629	26.55	10.06	36.61	60.00	23.39	QP
12	17.629	18.90	10.06	28.96	50.00	21.04	Average

4.2 Radiated Spurious Emissions

4.2.1 9 kHz – 1 GHz:

Serial Number:	2MBO-1	Test Date:	2024/6/7
Test Site:	966-2	Test Mode:	Transmitting(maximum output power mode, GFSK high channel)
Tester:	Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	59	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
BACL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2024/1/11	2025/1/10
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2024/1/11	2025/1/10
R&S	EMI Test Receiver	ESR3	102724	2024/2/29	2025/2/28
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2023/12/4	2024/12/3
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2023/12/4	2024/12/3
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/12/4	2024/12/3
Sonoma	Amplifier	310N	186165	2023/12/4	2024/12/3
Audix	Test Software	E3	191218 (V9)	N/A	N/A

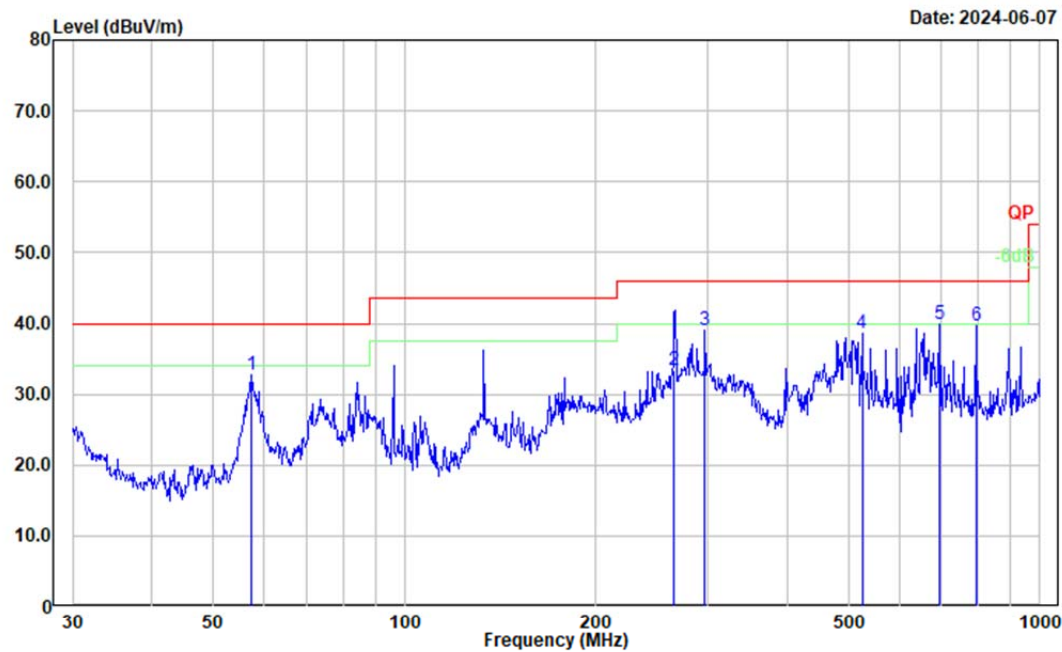
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

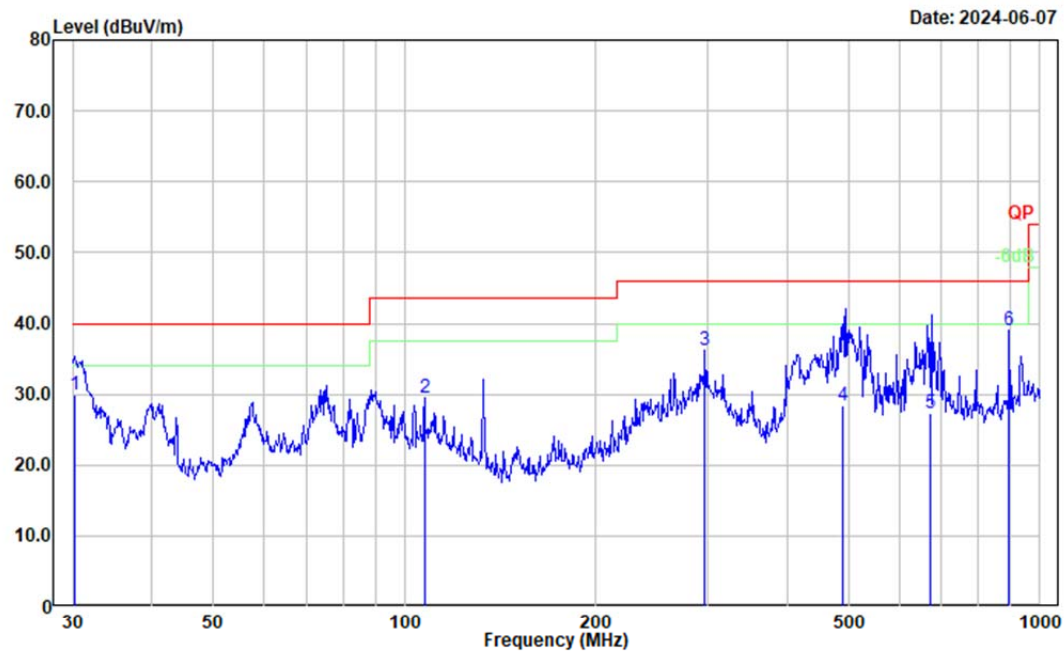
For 9kHz-30MHz, The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be reported.

Project No.: 2403T78885E-RF
Tester: Carl Xue
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	57.392	50.47	-17.81	32.66	40.00	7.34	Peak
2	265.586	44.58	-11.10	33.48	46.00	12.52	QP
3	297.224	49.58	-10.50	39.08	46.00	6.92	Peak
4	524.554	44.08	-5.46	38.62	46.00	7.38	Peak
5	694.417	43.08	-3.18	39.90	46.00	6.10	Peak
6	793.396	41.24	-1.46	39.78	46.00	6.22	Peak

Project No.: 2403T78885E-RF
Tester: Carl Xue
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.289	33.96	-4.04	29.92	40.00	10.08	QP
2	107.510	42.20	-12.70	29.50	43.50	14.00	Peak
3	297.224	46.60	-10.50	36.10	46.00	9.90	Peak
4	488.503	34.47	-5.98	28.49	46.00	17.51	QP
5	671.404	30.72	-3.48	27.24	46.00	18.76	QP
6	893.857	39.11	-0.13	38.98	46.00	7.02	Peak

4.2.2 1GHz – 25 GHz:

Serial Number:	2MBO-1	Test Date:	2024/6/11
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Tao Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.3	Relative Humidity: (%)	69	ATM Pressure: (kPa)	100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2024/4/1	2025/3/31
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2024/1/15	2025/1/14
BACL	Preamplifier	1313-A20M18G	4032311	2024/4/1	2025/3/31
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2024/1/15	2025/1/14
JD	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2023/8/6	2024/8/5
JD	Filter Switch Unit	DT7220FSU	DQ77928	2023/8/6	2024/8/5

* 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:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

BDR Mode(GFSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	25.77	PK	H	31.46	57.23	74.00	16.77
2390.000	12.98	AV	H	31.46	44.44	54.00	9.56
2390.000	25.87	PK	V	31.46	57.33	74.00	16.67
2390.000	13.22	AV	V	31.46	44.68	54.00	9.32
4804.000	35.25	PK	H	8.50	43.75	74.00	30.25
4804.000	22.69	AV	H	8.50	31.19	54.00	22.81
4804.000	35.26	PK	V	8.50	43.76	74.00	30.24
4804.000	22.39	AV	V	8.50	30.89	54.00	23.11
7206.000	35.17	PK	H	11.39	46.56	74.00	27.44
7206.000	22.14	AV	H	11.39	33.53	54.00	20.47
7206.000	36.10	PK	V	11.39	47.49	74.00	26.51
7206.000	23.25	AV	V	11.39	34.64	54.00	19.36
Middle Channel: 2441 MHz							
4882.000	35.20	PK	H	8.96	44.16	74.00	29.84
4882.000	22.18	AV	H	8.96	31.14	54.00	22.86
4882.000	35.18	PK	V	8.96	44.14	74.00	29.86
4882.000	22.30	AV	V	8.96	31.26	54.00	22.74
7323.000	35.63	PK	H	11.58	47.21	74.00	26.79
7323.000	22.24	AV	H	11.58	33.82	54.00	20.18
7323.000	34.89	PK	V	11.58	46.47	74.00	27.53
7323.000	21.66	AV	V	11.58	33.24	54.00	20.76
High Channel: 2480 MHz							
2483.500	26.03	PK	H	31.50	57.53	74.00	16.47
2483.500	13.47	AV	H	31.50	44.97	54.00	9.03
2483.500	25.82	PK	V	31.50	57.32	74.00	16.68
2483.500	12.66	AV	V	31.50	44.16	54.00	9.84
4960.000	35.47	PK	H	8.80	44.27	74.00	29.73
4960.000	22.50	AV	H	8.80	31.30	54.00	22.70
4960.000	35.09	PK	V	8.80	43.89	74.00	30.11
4960.000	22.41	AV	V	8.80	31.21	54.00	22.79
7440.000	34.98	PK	H	11.47	46.45	74.00	27.55
7440.000	21.84	AV	H	11.47	33.31	54.00	20.69
7440.000	35.66	PK	V	11.47	47.13	74.00	26.87
7440.000	22.46	AV	V	11.47	33.93	54.00	20.07

2EDR Mode ($\pi/4$ -DQPSK):

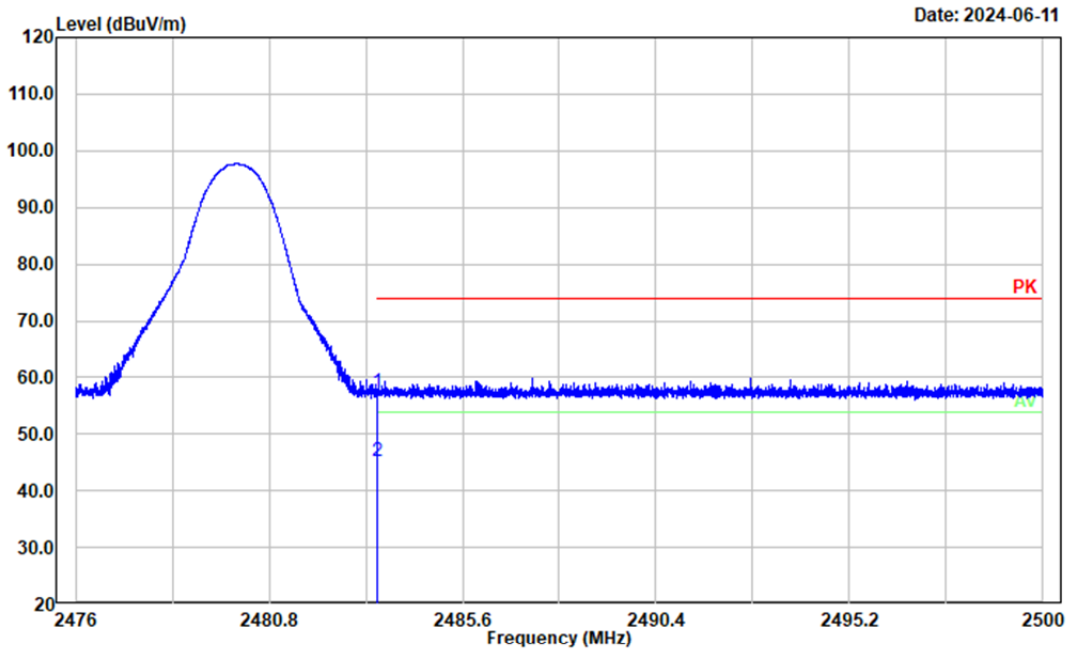
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2402	MHz		
2390.000	25.63	PK	H	31.46	57.09	74.00	16.91
2390.000	12.88	AV	H	31.46	44.34	54.00	9.66
2390.000	25.74	PK	V	31.46	57.20	74.00	16.80
2390.000	13.11	AV	V	31.46	44.57	54.00	9.43
4804.000	36.63	PK	H	8.50	45.13	74.00	28.87
4804.000	23.66	AV	H	8.50	32.16	54.00	21.84
4804.000	36.52	PK	V	8.50	45.02	74.00	28.98
4804.000	23.14	AV	V	8.50	31.64	54.00	22.36
7206.000	35.69	PK	H	11.39	47.08	74.00	26.92
7206.000	22.57	AV	H	11.39	33.96	54.00	20.04
7206.000	35.78	PK	V	11.39	47.17	74.00	26.83
7206.000	22.64	AV	V	11.39	34.03	54.00	19.97
Middle Channel:				2441	MHz		
4882.000	36.41	PK	H	8.96	45.37	74.00	28.63
4882.000	23.39	AV	H	8.96	32.35	54.00	21.65
4882.000	36.36	PK	V	8.96	45.32	74.00	28.68
4882.000	23.55	AV	V	8.96	32.51	54.00	21.49
7323.000	35.41	PK	H	11.58	46.99	74.00	27.01
7323.000	22.63	AV	H	11.58	34.21	54.00	19.79
7323.000	35.29	PK	V	11.58	46.87	74.00	27.13
7323.000	22.47	AV	V	11.58	34.05	54.00	19.95
High Channel:				2480	MHz		
2483.500	25.82	PK	H	31.50	57.32	74.00	16.68
2483.500	13.33	AV	H	31.50	44.83	54.00	9.17
2483.500	25.91	PK	V	31.50	57.41	74.00	16.59
2483.500	13.54	AV	V	31.50	45.04	54.00	8.96
4960.000	38.66	PK	H	8.80	47.46	74.00	26.54
4960.000	25.74	AV	H	8.80	34.54	54.00	19.46
4960.000	39.10	PK	V	8.80	47.90	74.00	26.10
4960.000	26.30	AV	V	8.80	35.10	54.00	18.90
7440.000	35.44	PK	H	11.47	46.91	74.00	27.09
7440.000	22.46	AV	H	11.47	33.93	54.00	20.07
7440.000	35.23	PK	V	11.47	46.70	74.00	27.30
7440.000	22.66	AV	V	11.47	34.13	54.00	19.87

3EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2402	MHz		
2390.000	25.69	PK	H	31.46	57.15	74.00	16.85
2390.000	13.36	AV	H	31.46	44.82	54.00	9.18
2390.000	25.47	PK	V	31.46	56.93	74.00	17.07
2390.000	13.66	AV	V	31.46	45.12	54.00	8.88
4804.000	34.79	PK	H	8.50	43.29	74.00	30.71
4804.000	21.52	AV	H	8.50	30.02	54.00	23.98
4804.000	35.23	PK	V	8.50	43.73	74.00	30.27
4804.000	22.63	AV	V	8.50	31.13	54.00	22.87
7206.000	35.69	PK	H	11.39	47.08	74.00	26.92
7206.000	22.59	AV	H	11.39	33.98	54.00	20.02
7206.000	35.55	PK	V	11.39	46.94	74.00	27.06
7206.000	22.28	AV	V	11.39	33.67	54.00	20.33
Middle Channel:				2441	MHz		
4882.000	34.88	PK	H	8.96	43.84	74.00	30.16
4882.000	21.32	AV	H	8.96	30.28	54.00	23.72
4882.000	35.67	PK	V	8.96	44.63	74.00	29.37
4882.000	22.10	AV	V	8.96	31.06	54.00	22.94
7323.000	34.66	PK	H	11.58	46.24	74.00	27.76
7323.000	21.09	AV	H	11.58	32.67	54.00	21.33
7323.000	35.78	PK	V	11.58	47.36	74.00	26.64
7323.000	22.36	AV	V	11.58	33.94	54.00	20.06
High Channel:				2480	MHz		
2483.500	25.98	PK	H	31.50	57.48	74.00	16.52
2483.500	13.78	AV	H	31.50	45.28	54.00	8.72
2483.500	25.86	PK	V	31.50	57.36	74.00	16.64
2483.500	13.68	AV	V	31.50	45.18	54.00	8.82
4960.000	34.85	PK	H	8.80	43.65	74.00	30.35
4960.000	21.56	AV	H	8.80	30.36	54.00	23.64
4960.000	34.94	PK	V	8.80	43.74	74.00	30.26
4960.000	22.02	AV	V	8.80	30.82	54.00	23.18
7440.000	36.63	PK	H	11.47	48.10	74.00	25.90
7440.000	23.87	AV	H	11.47	35.34	54.00	18.66
7440.000	36.66	PK	V	11.47	48.13	74.00	25.87
7440.000	23.25	AV	V	11.47	34.72	54.00	19.28

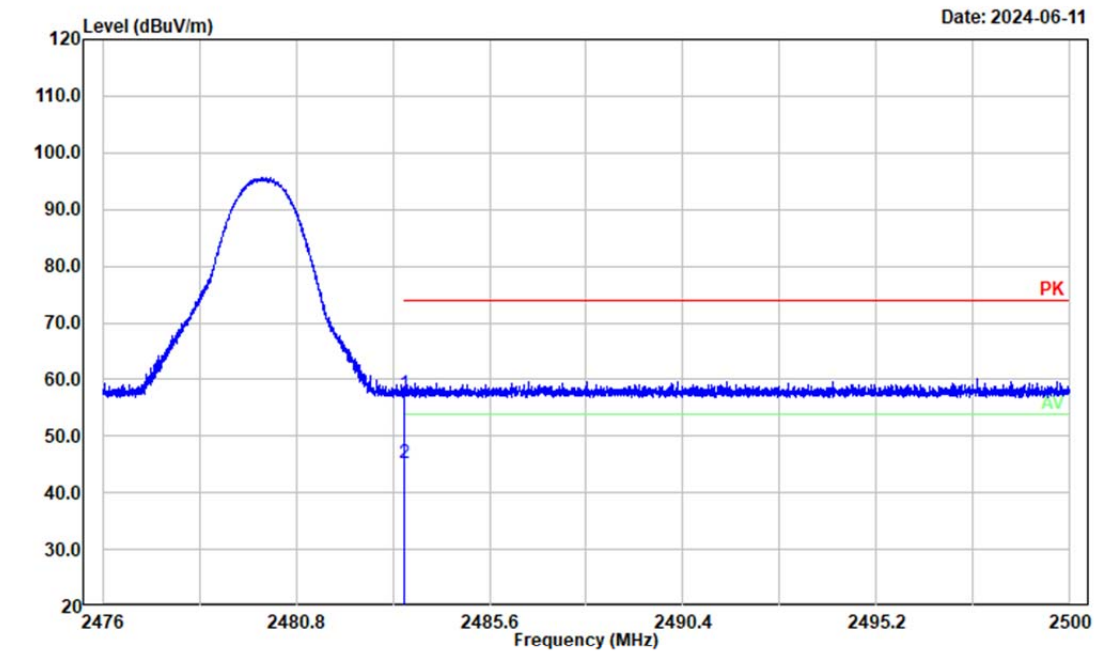
Worst band edge test plots

Project No.: 2403T78885E-RF
Tester: Tao Zhu
Polarization: Horizontal
Note: 3EDR High 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.500	25.98	31.50	57.48	74.00	16.52	Peak
2	2483.500	13.78	31.50	45.28	54.00	8.72	Average

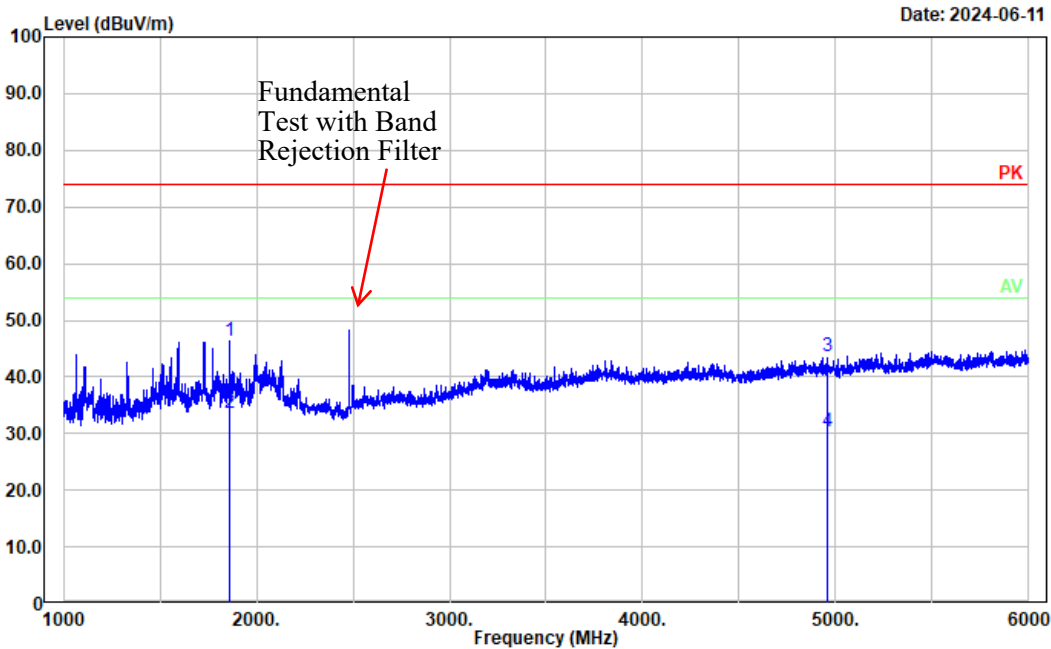
Project No.: 2403T78885E-RF
Tester: Tao Zhu
Polarization: Vertical
Note: 3EDR High 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.500	25.86	31.50	57.36	74.00	16.64	Peak
2	2483.500	13.68	31.50	45.18	54.00	8.82	Average

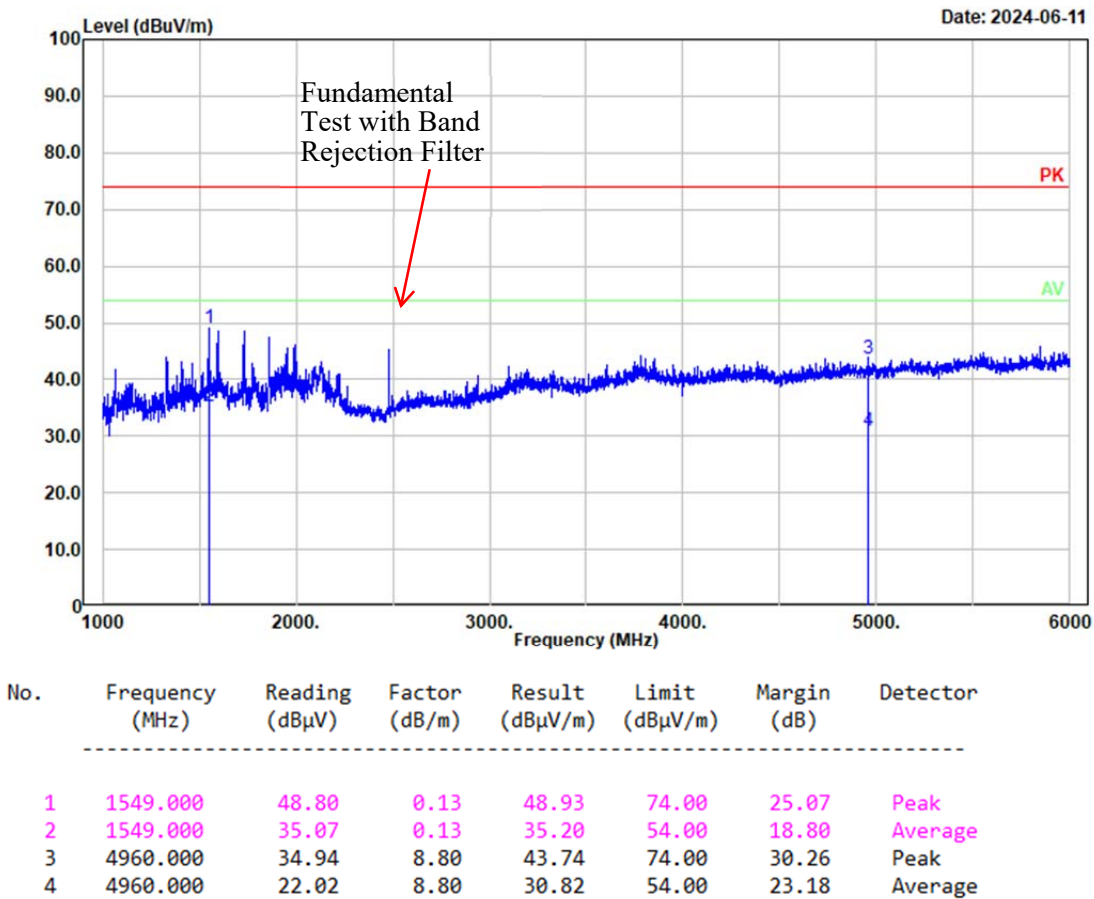
Worst radiation spurious emissions margin test plots

Project No.: 2403T78885E-RF
Tester: Tao Zhu
Polarization: horizontal
Note: 3EDR High 2480MHz

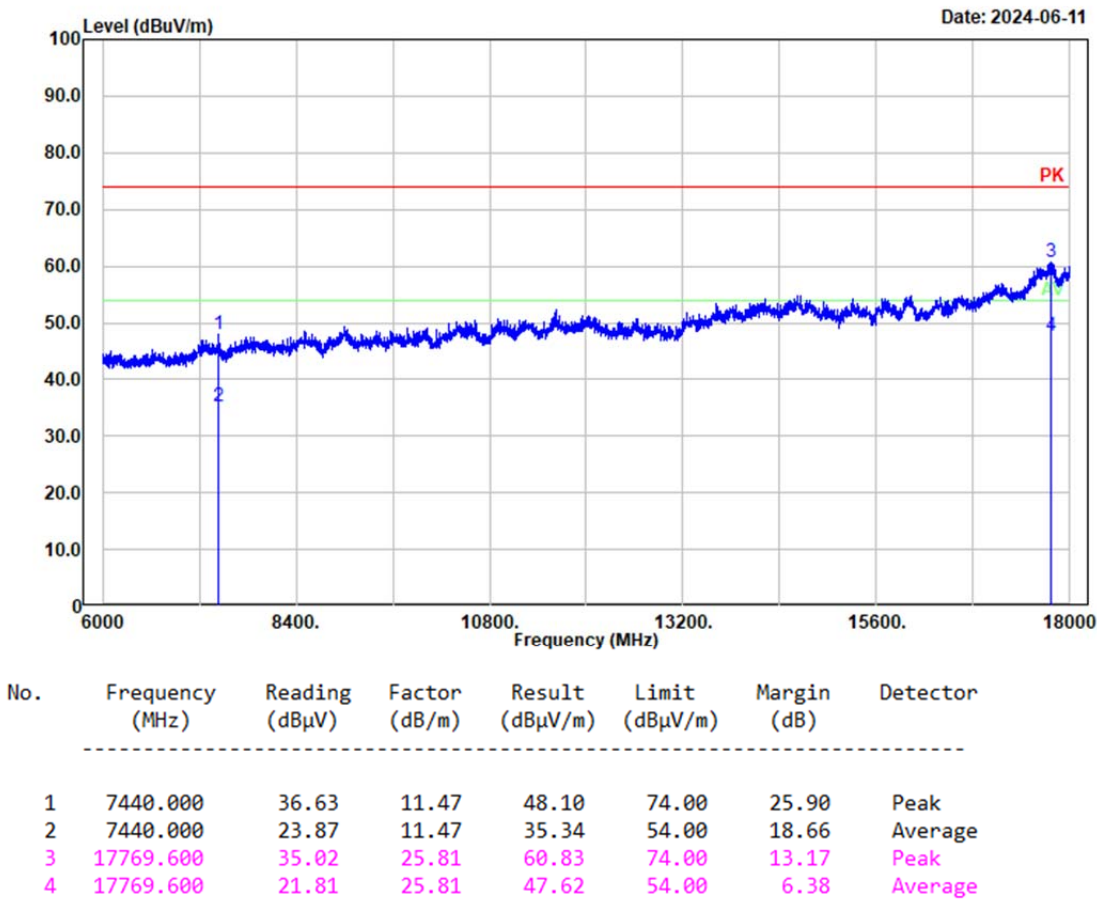


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1860.000	44.17	2.07	46.24	74.00	27.76	Peak
2	1860.000	31.62	2.07	33.69	54.00	20.31	Average
3	4960.000	34.85	8.80	43.65	74.00	30.35	Peak
4	4960.000	21.56	8.80	30.36	54.00	23.64	Average

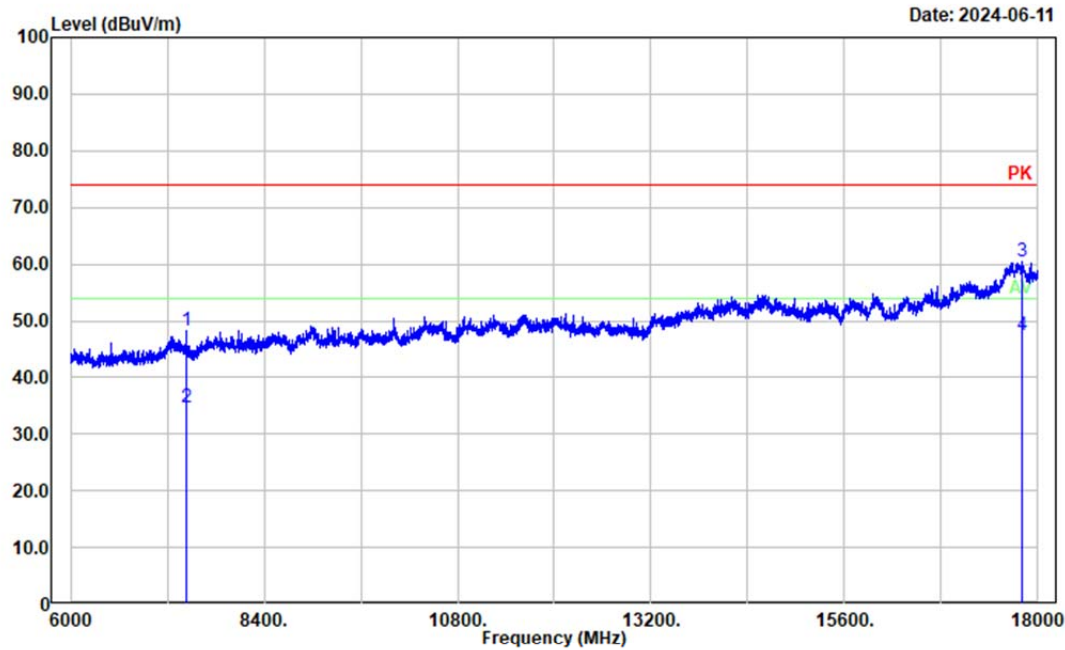
Project No.: 2403T78885E-RF
Tester: Tao Zhu
Polarization: vertical
Note: 3EDR High 2480MHz



Project No.: 2403T78885E-RF
Tester: Tao Zhu
Polarization: horizontal
Note: 3EDR High 2480MHz

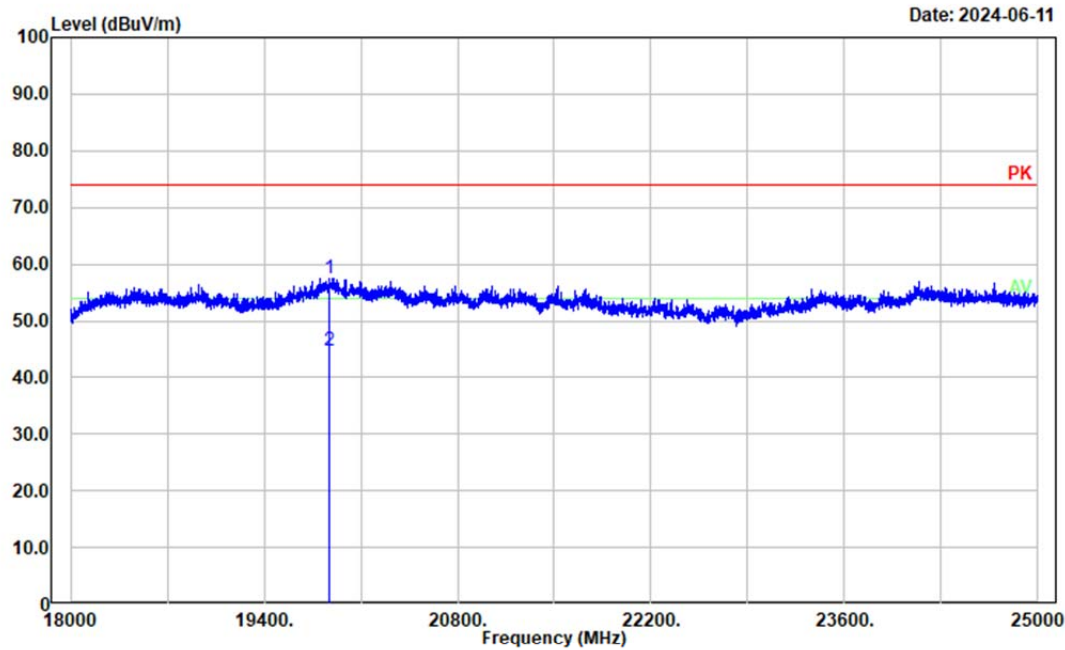


Project No.: 2403T78885E-RF
Tester: Tao Zhu
Polarization: vertical
Note: 3EDR High 2480MHz



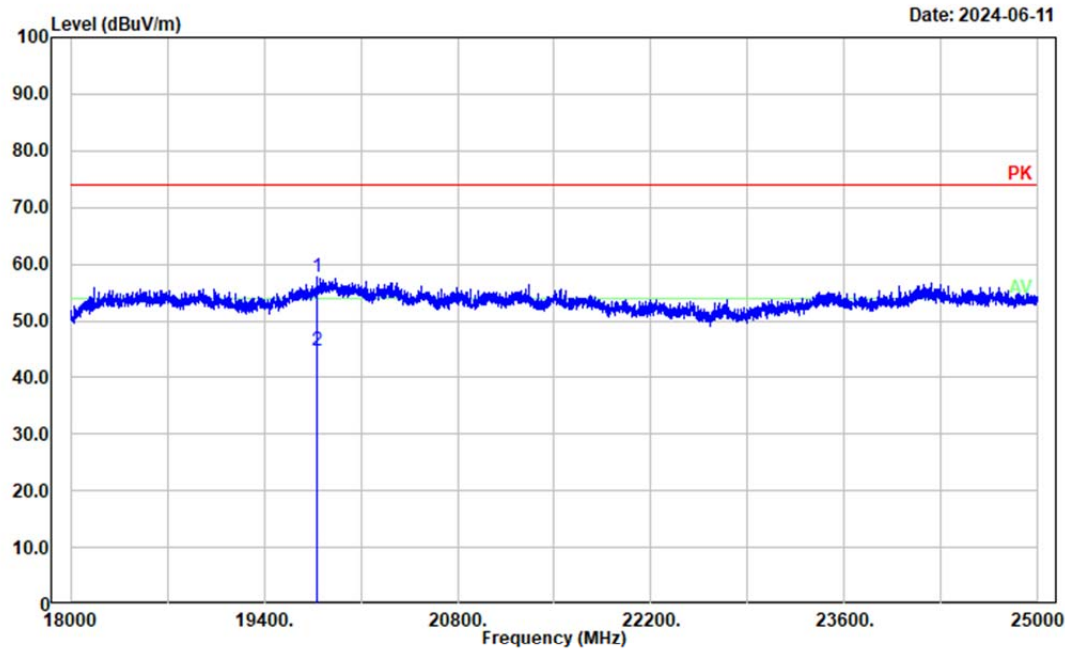
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7440.000	36.66	11.47	48.13	74.00	25.87	Peak
2	7440.000	23.25	11.47	34.72	54.00	19.28	Average
3	17800.800	34.69	25.77	60.46	74.00	13.54	Peak
4	17800.800	21.77	25.77	47.54	54.00	6.46	Average

Project No.: 2403T78885E-RF
Tester: Tao Zhu
Polarization: Horizontal
Note: 3EDR High 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	19874.600	49.49	7.97	57.46	74.00	16.54	Peak
2	19874.600	36.72	7.97	44.69	74.00	29.31	Peak

Project No.: 2403T78885E-RF
Tester: Tao Zhu
Polarization: vertical
Note: 3EDR High 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	19786.400	49.96	7.82	57.78	74.00	16.22	Peak
2	19786.400	36.76	7.82	44.58	54.00	9.42	Average

4.3 20 dB Emission Bandwidth

Test Information:

Serial No.:	2MBO-2	Test Date:	2024/6/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	26.4	Relative Humidity: (%)	55	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

BDR

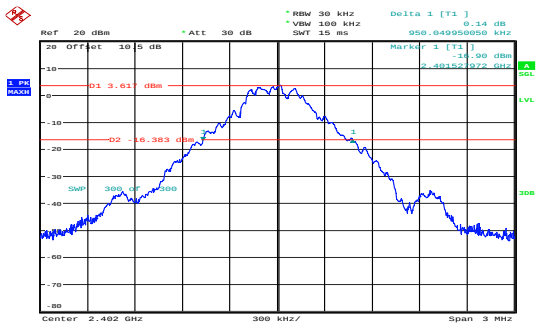
Mode	Value (MHz)
GFSK_Low	0.950
GFSK_Middle	0.947
GFSK_High	0.950

EDR

Mode	Value (MHz)
$\pi/4$ -DQPSK_Low	1.451
$\pi/4$ -DQPSK_Middle	1.451
$\pi/4$ -DQPSK_High	1.454
8DPSK_Low	1.454
8DPSK_Middle	1.457
8DPSK_High	1.460

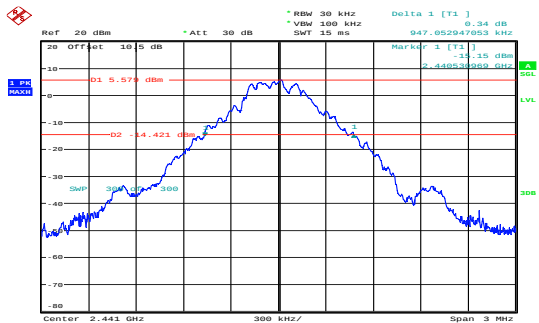
BDR

GFSK_Low 0.950MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 09:19:17

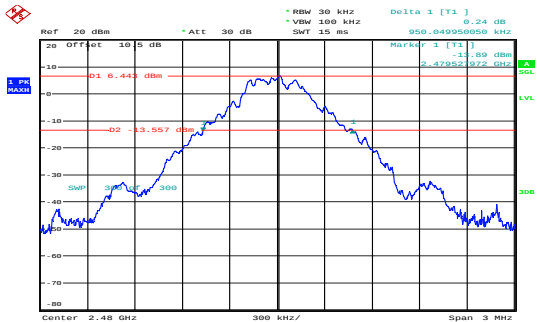
GFSK_Middle 0.947MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 09:24:08

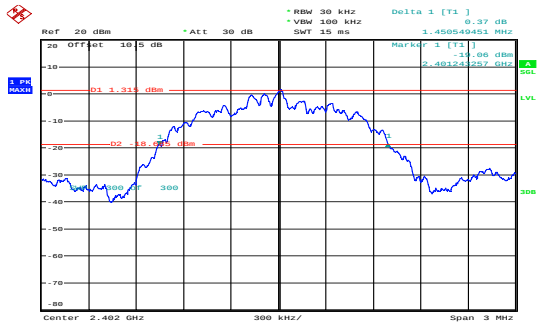
EDR

GFSK_High 0.950MHz



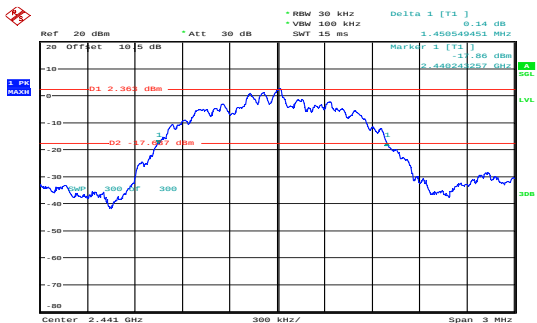
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 09:28:20

$\pi/4$ -DQPSK_Low 1.451MHz



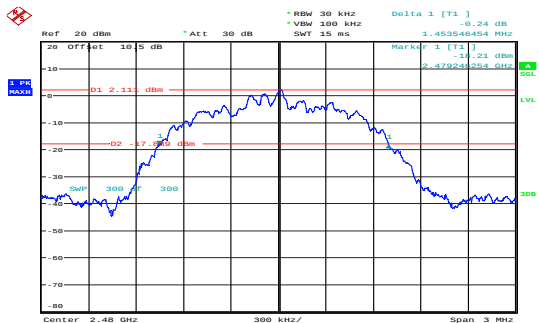
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 09:32:02

$\pi/4$ -DQPSK_Middle 1.451MHz



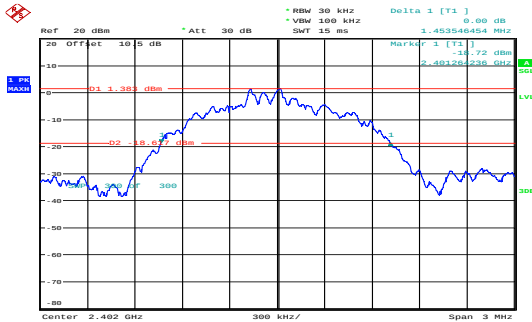
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 09:35:18

$\pi/4$ -DQPSK_High 1.454MHz



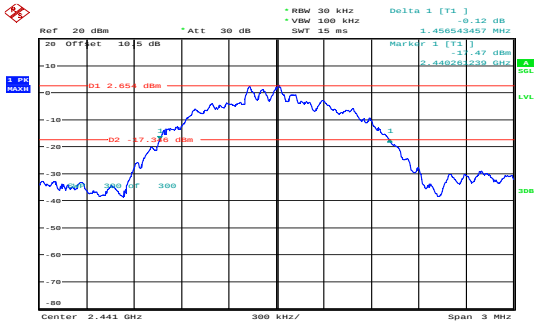
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 09:43:25

8DPSK_Low 1.454MHz



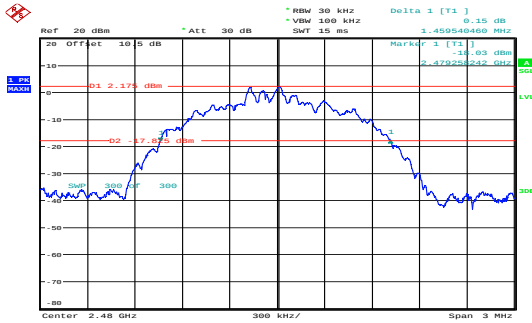
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:01:22

8DPSK_Middle 1.457MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:05:57

8DPSK_High 1.460MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:09:29

4.4 99% Occupied Bandwidth

Test Information:

Serial No.:	2MBO-2	Test Date:	2024/6/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	26.4	Relative Humidity: (%)	55	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

BDR

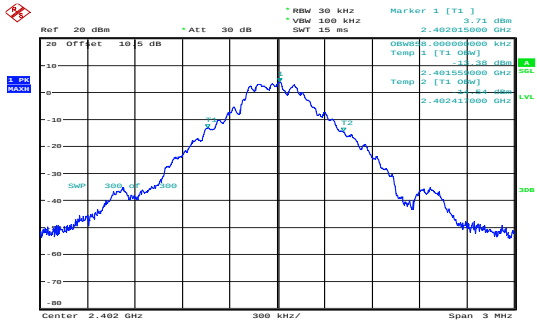
Mode	99% OBW (MHz)
GFSK_Low	0.858
GFSK_Middle	0.867
GFSK_High	0.861

EDR

Mode	99% OBW (MHz)
$\pi/4$ -DQPSK_Low	1.353
$\pi/4$ -DQPSK_Middle	1.347
$\pi/4$ -DQPSK_High	1.344
8DPSK_Low	1.362
8DPSK_Middle	1.350
8DPSK_High	1.350

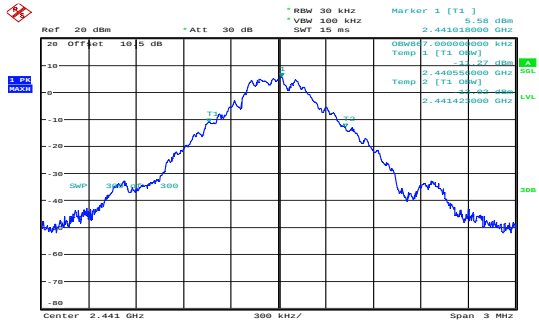
BDR

GFSK_Low 0.858MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 09:19:56

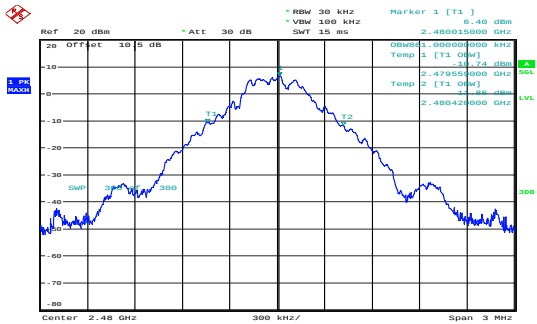
GFSK_Middle 0.867MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 09:24:45

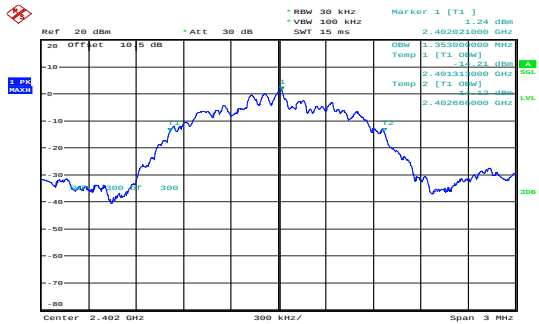
EDR

GFSK_High 0.861MHz



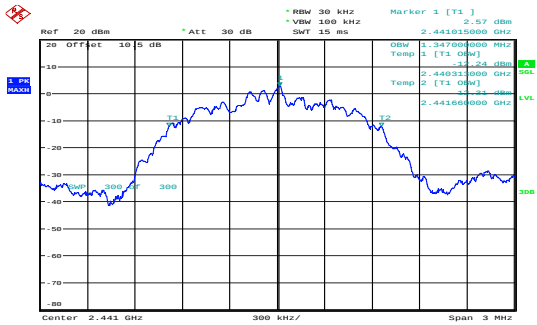
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 09:28:57

$\pi/4$ -DQPSK_Low 1.353MHz



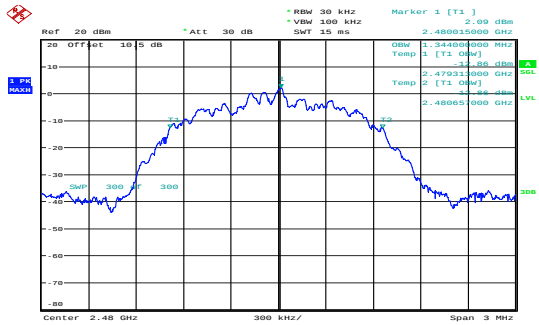
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 09:32:41

$\pi/4$ -DQPSK_Middle 1.347MHz



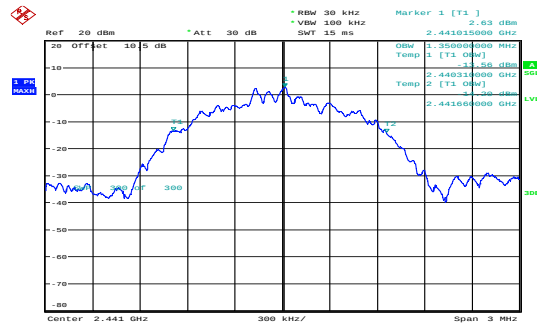
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 09:35:54

$\pi/4$ -DQPSK_High 1.344MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 09:44:02

8DPSK_Middle 1.350MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:06:34

4.5 Channel Separation

Test Information:

Serial No.:	2MBO-2	Test Date:	2024/6/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.4	Relative Humidity: (%)	55	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

BDR

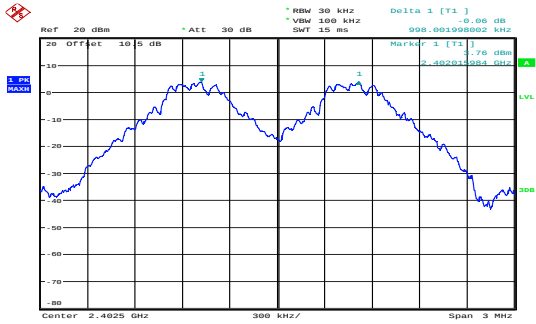
Mode	Value (MHz)	Limit (MHz)	Result
GFSK_Low	0.998	0.633	Pass
GFSK_Middle	1.001	0.631	Pass
GFSK_High	1.004	0.633	Pass

EDR

Mode	Value (MHz)	Limit (MHz)	Result
$\pi/4$ -DQPSK_Low	1.001	0.967	Pass
$\pi/4$ -DQPSK_Middle	1.001	0.967	Pass
$\pi/4$ -DQPSK_High	1.010	0.969	Pass
8DPSK_Low	1.004	0.969	Pass
8DPSK_Middle	1.001	0.971	Pass
8DPSK_High	1.007	0.973	Pass

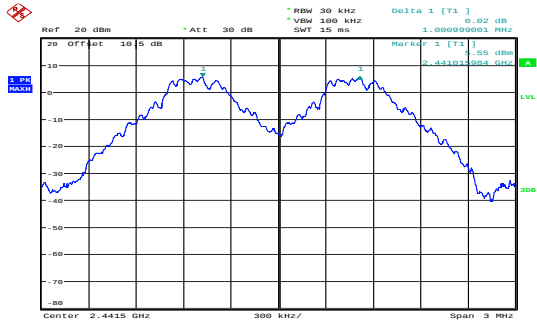
BDR

GFSK_Low 0.998MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 09:23:17

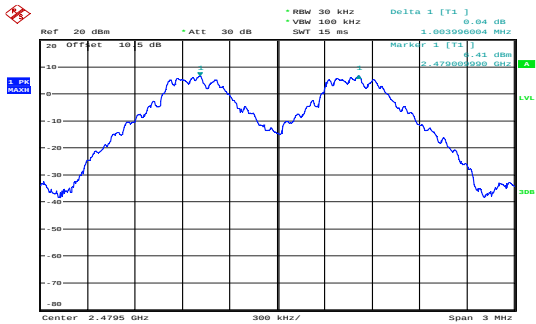
GFSK_Middle 1.001MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 09:27:05

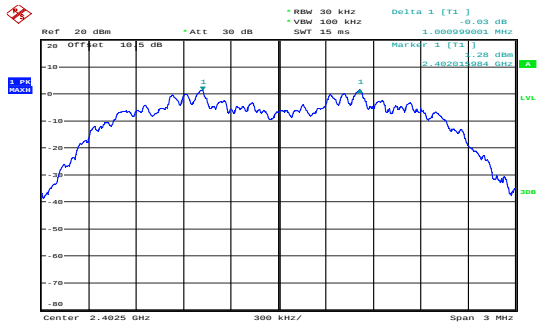
EDR

GFSK_High 1.004MHz



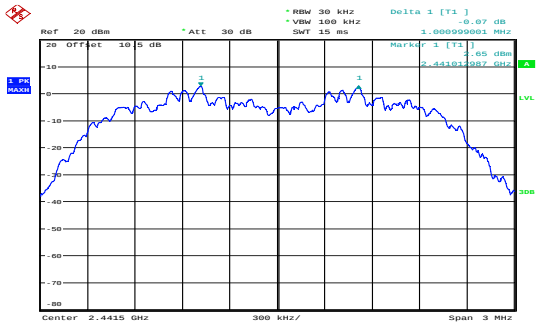
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 09:30:51

$\pi/4$ -DQPSK_Low 1.001MHz



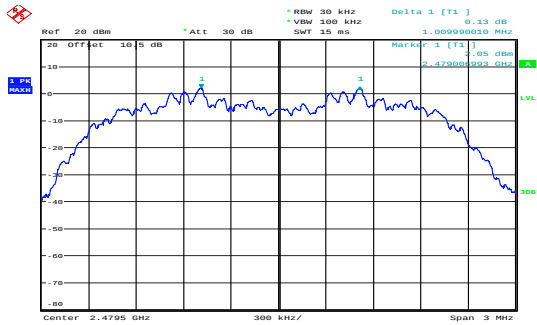
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 09:34:09

$\pi/4$ -DQPSK_Middle 1.001MHz



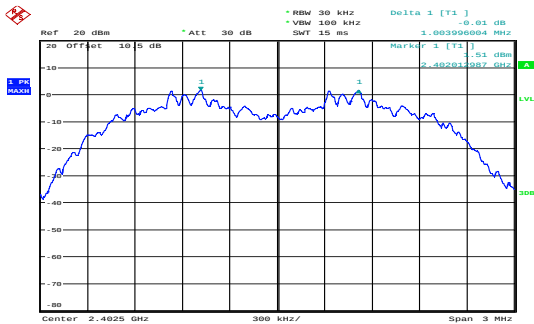
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 09:42:24

$\pi/4$ -DQPSK_High 1.010MHz



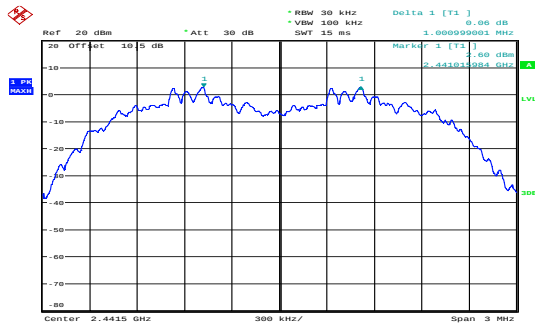
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 09:45:52

8DPSK_Low 1.004MHz



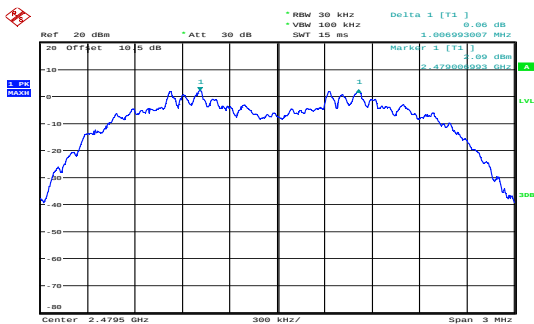
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:03:31

8DPSK_Middle 1.001MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:08:46

8DPSK_High 1.007MHz



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:12:00

4.6 Number of Hopping Frequency

Test Information:

Serial No.:	2MBO-2	Test Date:	2024/6/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25.8	Relative Humidity: (%)	43	ATM Pressure: (kPa)	99.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

BDR

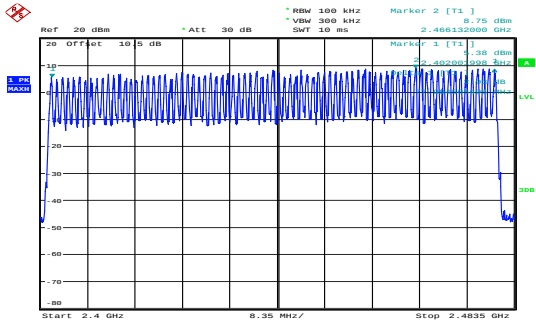
Mode	Value	Limit	Result
GFSK_Hopping	79	15	Pass

EDR

Mode	Value	Limit	Result
$\pi/4$ -DQPSK_Hopping	79	15	Pass
8DPSK_Hopping	79	15	Pass

BDR

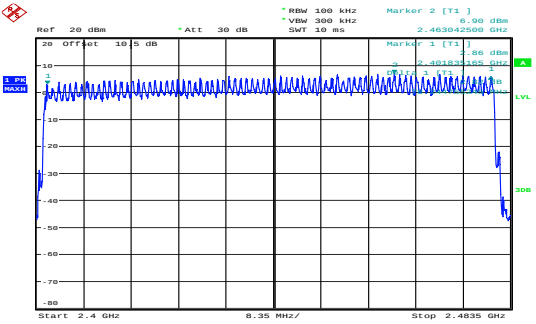
GFSK_Hopping 79



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14 JUN 2024 14:42:53

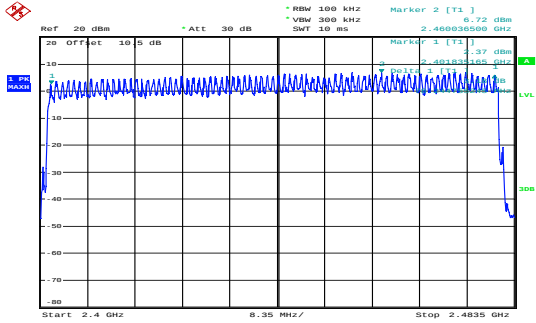
EDR

$\pi/4$ -DQPSK_Hopping 79



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14 JUN 2024 14:54:56

8DPSK_Hopping 79



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14 JUN 2024 15:14:07

4.7 Time of Occupancy (dwell time)

Test Information:

Serial No.:	2MBO-2	Test Date:	2024/6/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.4	Relative Humidity: (%)	55	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

BDR

Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
GFSK_Hopping_DH1	0.387	0.124	0.400	Pass
GFSK_Hopping_DH3	1.651	0.264	0.400	Pass
GFSK_Hopping_DH5	2.922	0.312	0.400	Pass

EDR

Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
$\pi/4$ -DQPSK_Hopping_2DH1	0.395	0.126	0.400	Pass
$\pi/4$ -DQPSK_Hopping_2DH3	1.657	0.265	0.400	Pass
$\pi/4$ -DQPSK_Hopping_2DH5	2.927	0.312	0.400	Pass
8DPSK_Hopping_3DH1	0.396	0.127	0.400	Pass
8DPSK_Hopping_3DH3	1.654	0.265	0.400	Pass
8DPSK_Hopping_3DH5	2.937	0.313	0.400	Pass

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

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

2DH3: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s

2DH5: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s

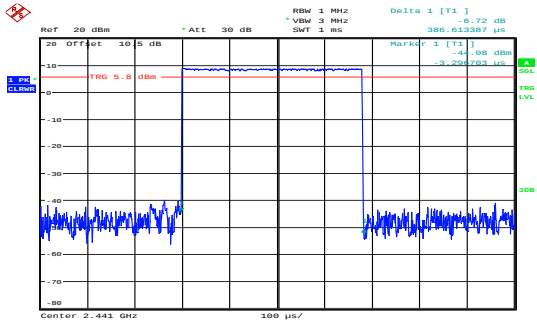
3DH1: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s

3DH3: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s

3DH5: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s

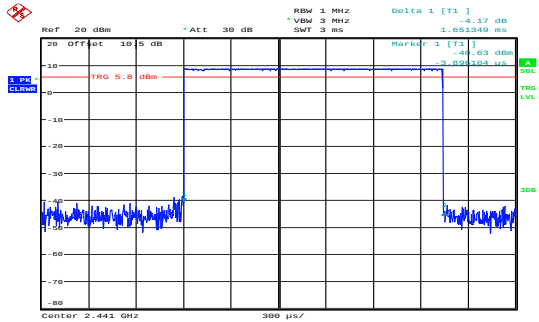
BDR

GFSK_Hopping_DH1 0.387ms



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 10:55:01

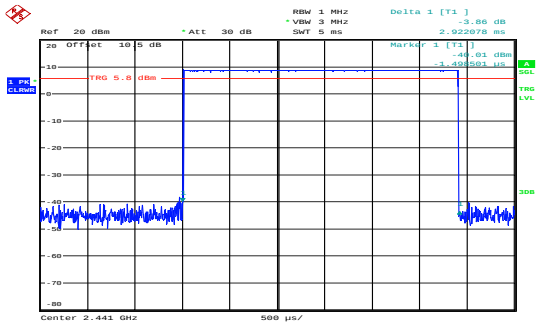
GFSK_Hopping_DH3 1.651ms



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 10:55:37

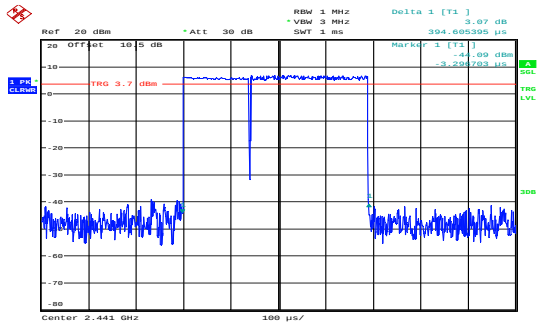
EDR

GFSK_Hopping_DH5 2.922ms



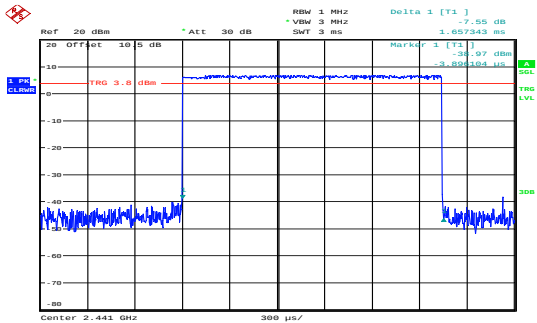
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 10:56:07

$\pi/4$ -DQPSK_Hopping_2DH1 0.395ms



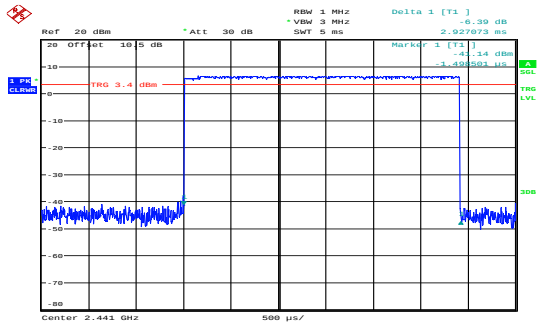
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 10:56:39

$\pi/4$ -DQPSK_Hopping_2DH3 1.657ms

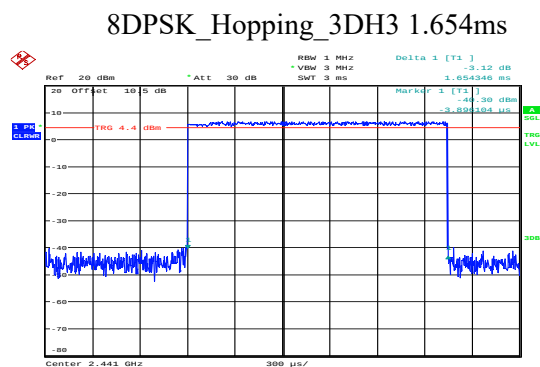


ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 10:57:10

$\pi/4$ -DQPSK_Hopping_2DH5 2.927ms



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN. 2024 10:57:49



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 10:58:53

4.8 Maximum Conducted Output Power

Test Information:

Serial No.:	2MBO-2	Test Date:	2024/6/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.4	Relative Humidity: (%)	55	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

BDR

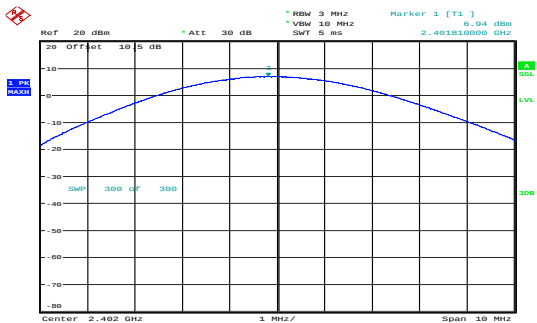
Mode	Value (dBm)	Limit (dBm)	Result
GFSK_Low	6.94	21.00	Pass
GFSK_Middle	8.86	21.00	Pass
GFSK_High	9.72	21.00	Pass

EDR

Mode	Value (dBm)	Limit (dBm)	Result
$\pi/4$ -DQPSK_Low	5.66	21.00	Pass
$\pi/4$ -DQPSK_Middle	6.95	21.00	Pass
$\pi/4$ -DQPSK_High	6.71	21.00	Pass
8DPSK_Low	5.66	21.00	Pass
8DPSK_Middle	6.99	21.00	Pass
8DPSK_High	6.85	21.00	Pass

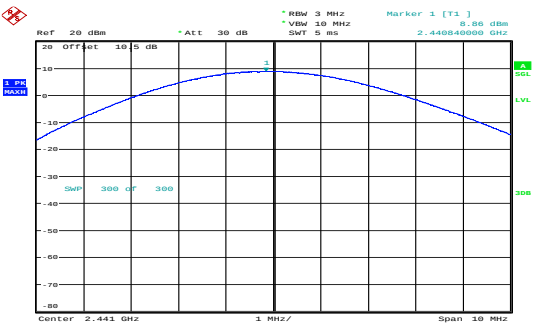
BDR

GFSK_Low 6.94dBm



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 10:13:31

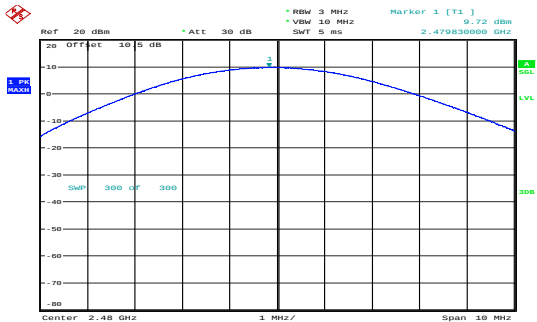
GFSK_Middle 8.86dBm



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 10:14:21

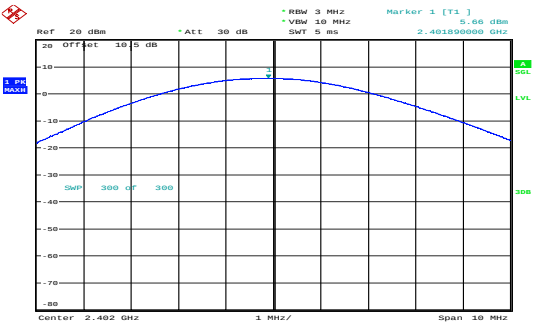
EDR

GFSK_High 9.72dBm



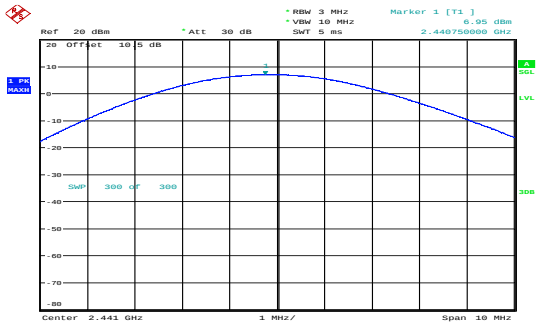
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 10:14:51

$\pi/4$ -DQPSK_Low 5.66dBm



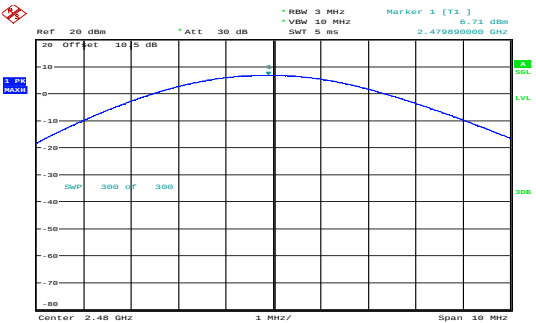
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 10:15:27

$\pi/4$ -DQPSK_Middle 6.95dBm



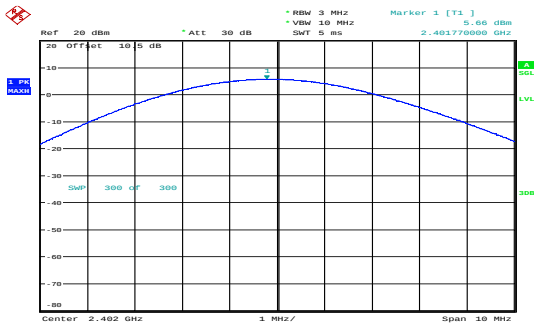
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 10:16:01

$\pi/4$ -DQPSK_High 6.71dBm



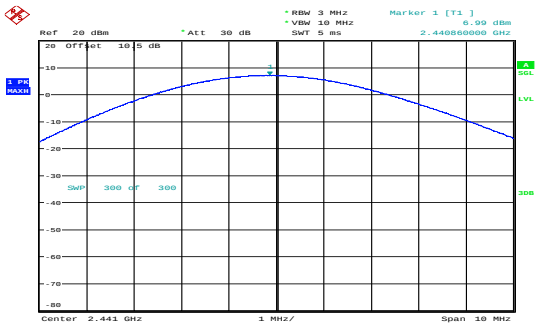
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN.2024 10:16:39

8DPSK_Low 5.66dBm



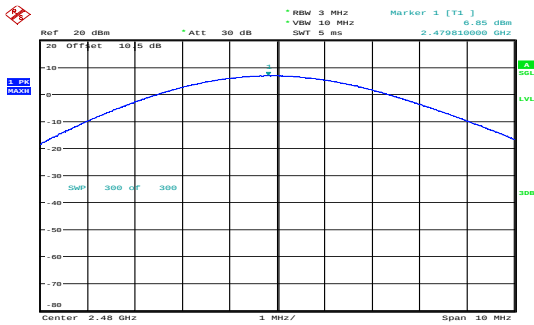
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:02:24

8DPSK_Middle 6.99dBm



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:07:03

8DPSK_High 6.85dBm



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:10:41

4.9 100 kHz Bandwidth of Frequency Band Edge

Test Information:

Serial No.:	2MBO-2	Test Date:	2024/6/14~2024/6/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25.8-26.4	Relative Humidity: (%)	43-55	ATM Pressure: (kPa)	99.7-100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK- 18G	21060301	Each time	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).*

BDR

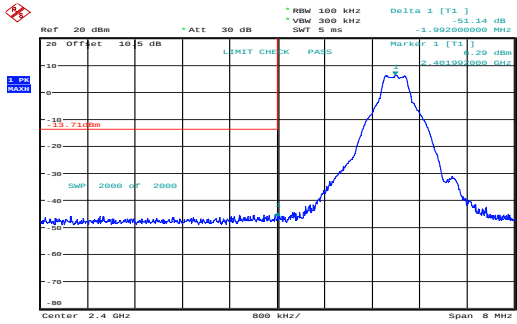
Mode	Value (dB)	Limit (dB)	Result
GFSK_Low	51.14	20.00	Pass
GFSK_High	49.95	20.00	Pass
GFSK_Hopping_Lower	48.98	20.00	Pass
GFSK_Hopping_Upper	49.43	20.00	Pass

EDR

Mode	Value (dB)	Limit (dB)	Result
$\pi/4$ -DQPSK_Low	43.19	20.00	Pass
$\pi/4$ -DQPSK_High	46.81	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Lower	47.14	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Upper	49.49	20.00	Pass
8DPSK_Low	43.61	20.00	Pass
8DPSK_High	46.29	20.00	Pass
8DPSK_Hopping_Lower	45.96	20.00	Pass
8DPSK_Hopping_Upper	49.75	20.00	Pass

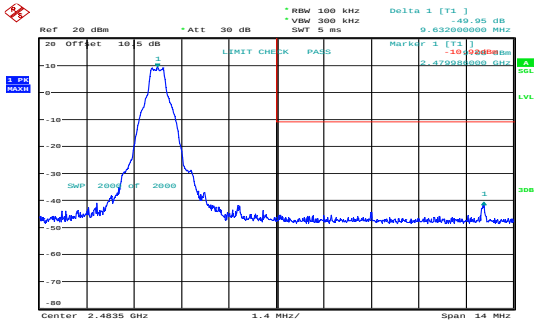
BDR

GFSK_Low 51.14dB



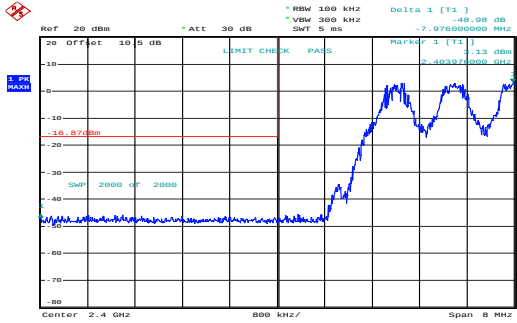
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 10:19:13

GFSK_High 49.95dB



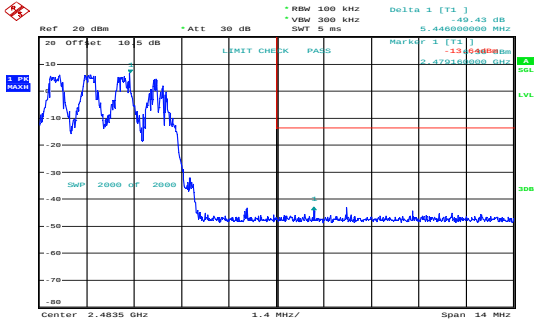
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 10:22:46

GFSK_Hopping_Lower 48.98dB



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14 JUN 2024 15:48:56

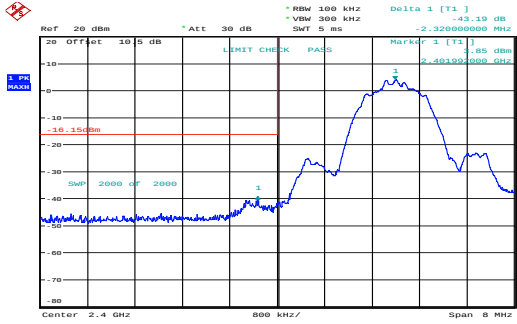
GFSK_Hopping_Upper 49.43dB



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14 JUN 2024 15:51:49

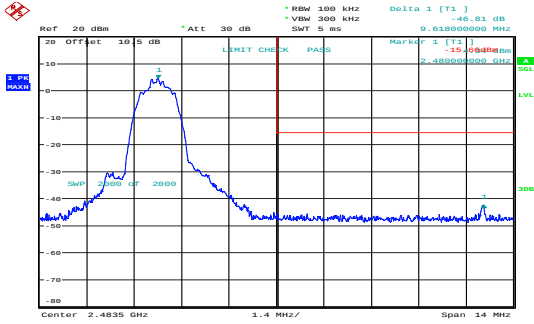
EDR

$\pi/4$ -DQPSK_Low 43.19dB



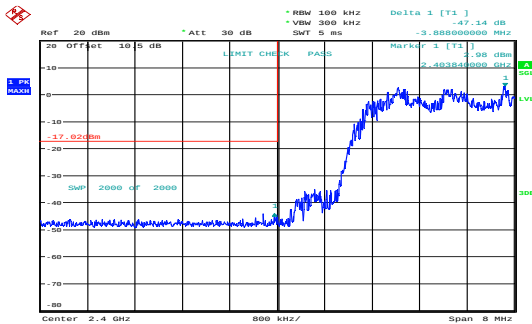
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 10:25:07

$\pi/4$ -DQPSK_High 46.81dB



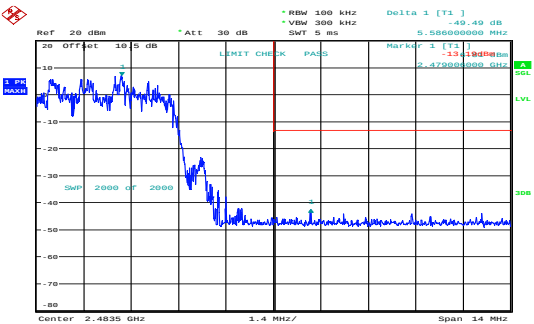
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17 JUN 2024 10:28:06

$\pi/4$ -DQPSK_Hopping_Lower 47.14dB



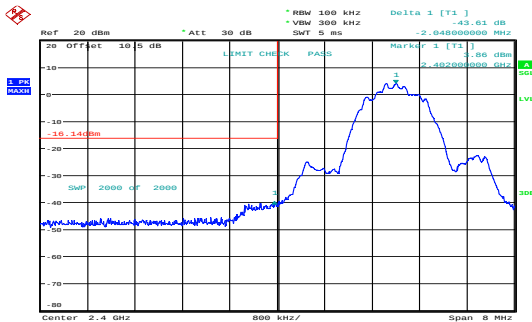
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14.JUN.2024 15:54:35

$\pi/4$ -DQPSK_Hopping_Upper 49.49dB



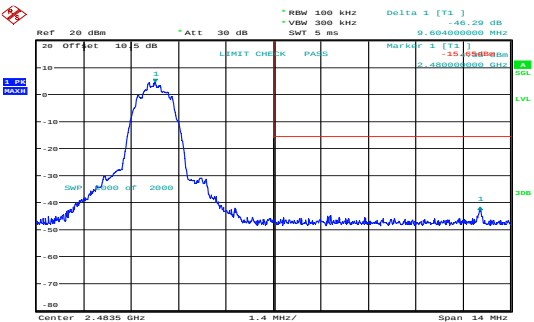
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14.JUN.2024 15:57:46

8DPSK_Low 43.61dB



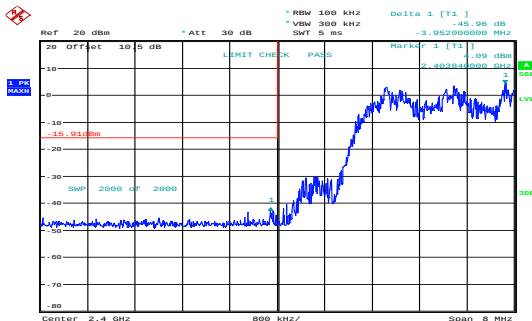
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:30:20

8DPSK_High 46.29dB



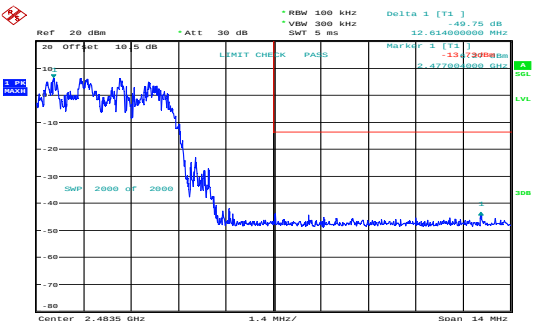
ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 17.JUN.2024 10:33:14

8DPSK_Hopping_Lower 45.96dB



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14.JUN.2024 15:59:58

8DPSK_Hopping_Upper 49.75dB



ProjectNo.:2403T78885E-RF Tester:Arthur Su
Date: 14.JUN.2024 16:02:45

5. EUT PHOTOGRAPHS

Please refer to the attachment 2403T78885E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2403T78885E-RF-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2403T78885E-RF-00B-TSPTEST SETUP PHOTOGRAPHS.

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