中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **VTech Telecommunications Ltd**

Address: 23/F Tai Ping Ind Center Block 1 57 Ting Kok Rd Tai Po NT, Hong Kong

FCC ID: **EW780-2503-00A**

Product Name: **DECT 6.0 cordless phone**

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: **CR231061541-00B**

Date Of Issue: **2023/12/15**

Reviewed By: **Calvin Chen**

Title: RF Engineer

Approved By: **Sun Zhong**

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.

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 "▲". 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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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231061541-00B	Original Report	2023/12/15

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	DECT 6.0 cordless phone
Trade Name:	VTech
EUT Model:	VG131-21
Multiple Model(s):	VG131, VG131-11, VG131-XY
Operation Frequency:	2402-2480MHz
Maximum Peak Output Power (Conducted):	10.74 dBm
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Rated Input Voltage:	DC 6 V from adapter
Serial Number:	RE&CE: 2CIZ-1 RF: 2CIZ-11
EUT Received Date:	2023/10/23
EUT Received Status:	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

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	Antenna Gain
PCB	50	2.4~2.5GHz	0 dBi

The Method of §15.203 Compliance:

☒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	Parameters
Adapter	GANGQI	GQ06-060040-ZU	Input: AC 100-120V, 50/60Hz, 0.15A Output: DC 6.0V, 0.4A
Adapter	VTPL	VT05UUS06040	Input: AC 100-120V, 60Hz, 150mA Output: DC 6V, 400mA
Adapter	AOHAI	A318-060040W-US1	Input: AC 100-120V, 50/60Hz, 0.15A Output: DC 6.0V, 0.4A
Adapter	MASS POWER	E004-1A060040VU	Input: AC 100-120V, 50/60Hz, 0.1A Output: DC 6.0V, 0.4A
Adapter	DEEVAN	DSA-3PFM-05 BUS 060040	Input: AC 100-120V, 50/60Hz, 0.15A Output: DC 6.0V, 0.4A, 2.4W

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:	Friendly serial assistant

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	Middle	Highest
GFSK	0F	0F	0F
π/4-DQPSK	0F	0F	0F
8DPSK	0F	0F	0F

1.2.2 Support Equipment List and Details

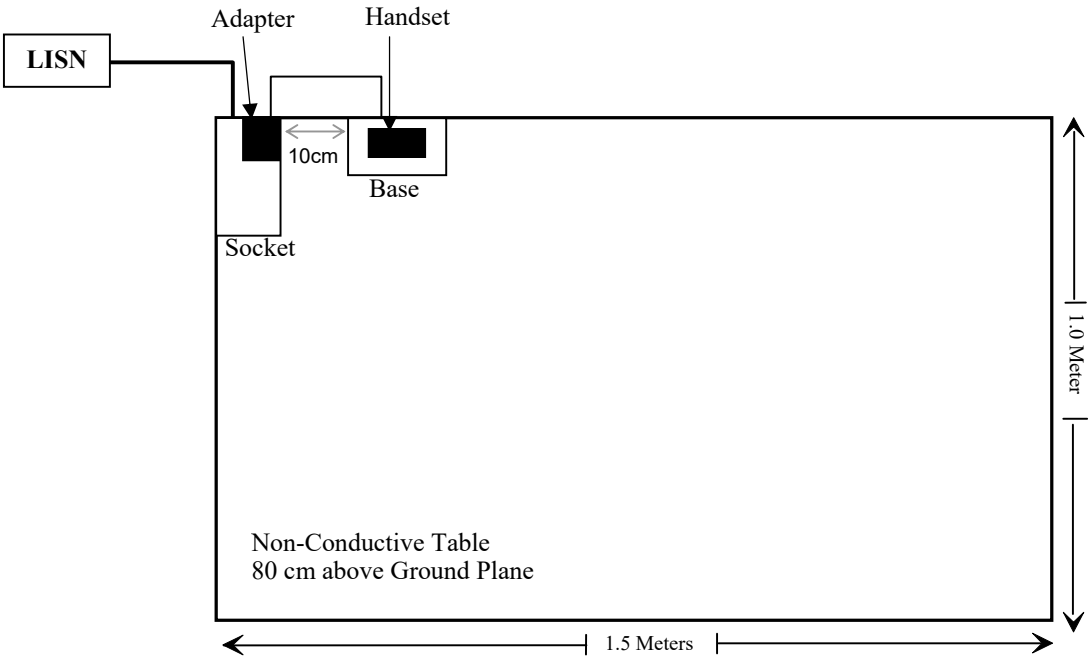
Manufacturer	Description	Model	Serial Number
VTech	Handset	VG131-21	N/A

1.2.3 Support Cable List and Details

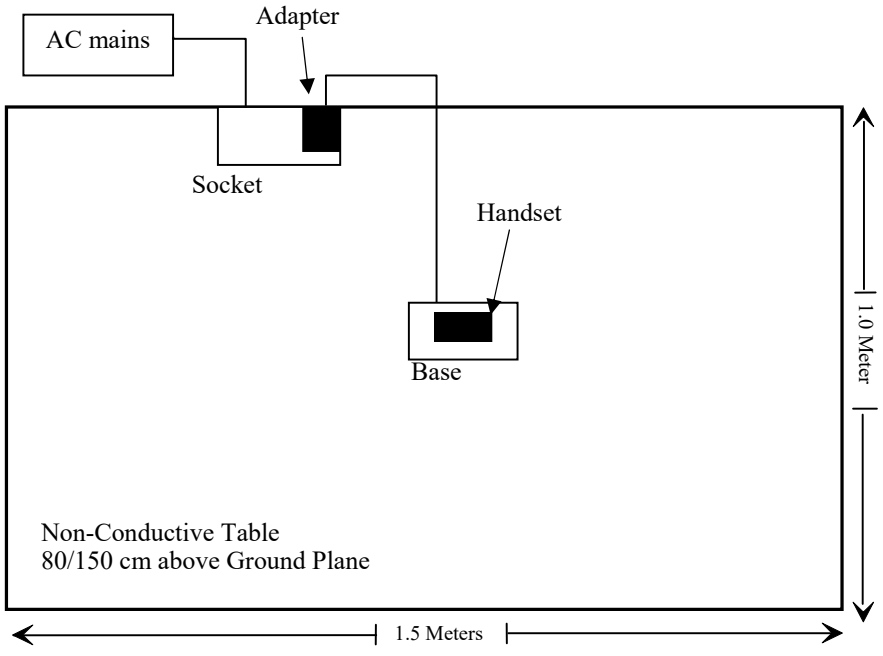
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
AC cable	No	No	1.2	LISN/ AC mains	Socket
DC cable	No	No	2.0	Adapter	EUT

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	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz-30 MHz: 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	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±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 Emission 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)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	100 kHz Bandwidth Of Frequency Band Edge	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 μH/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:

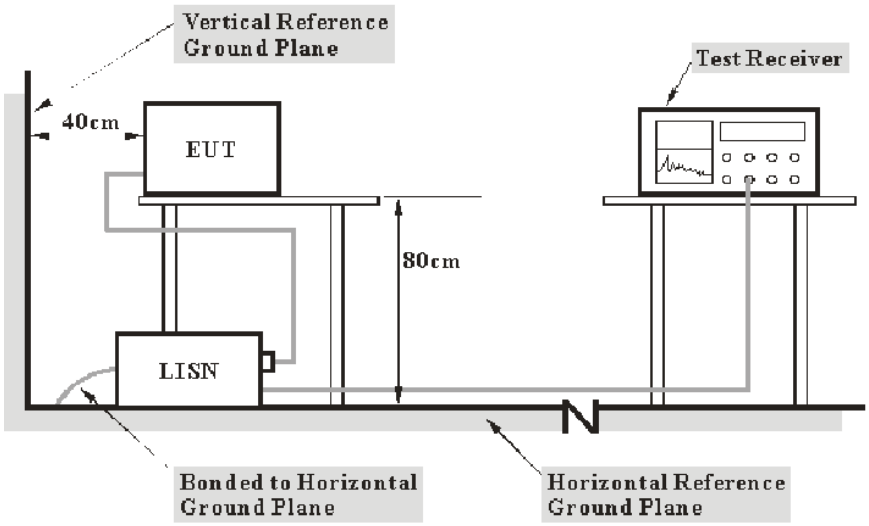
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 μH/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, obtainig 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.

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

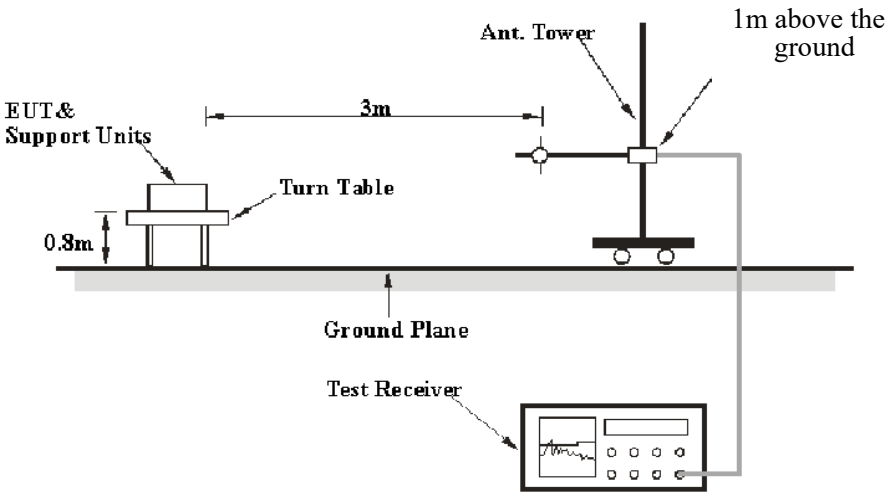
3.2.1 Applicable Standard

FCC §15.247 (d);

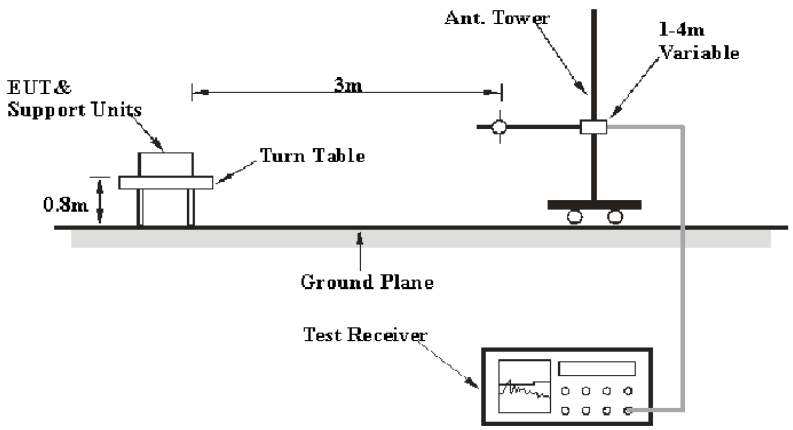
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

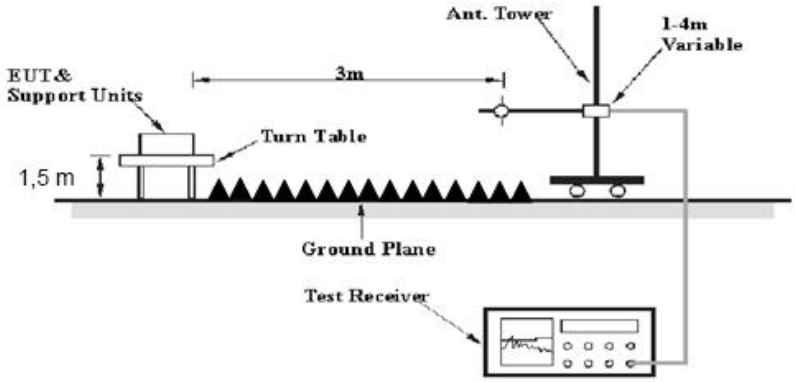
9 kHz-30MHz:



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 40 cm long in the middle.

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	Measurement
9 kHz – 150 kHz	300 Hz	1 kHz	200Hz	QP
150 kHz – 30 MHz	10 kHz	30 kHz	9 kHz	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	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 9 kHz -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

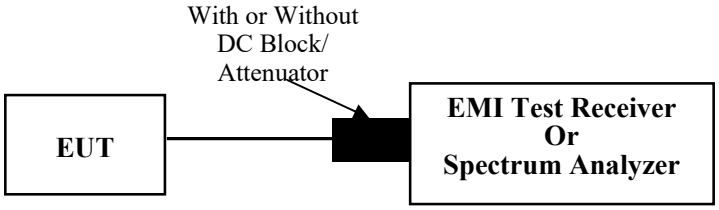
3.3 20 dB Emission Bandwidth

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 (OBW/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 [(reference value) − 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).

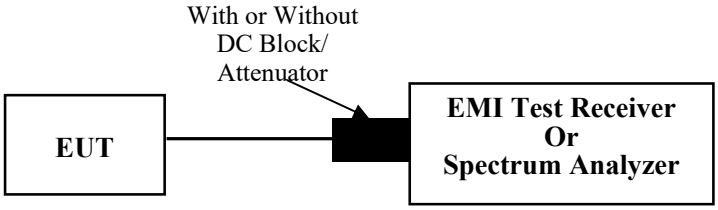
3.4 Channel Separation

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) ≥ 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.

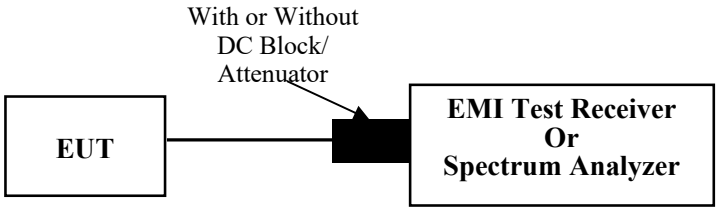
3.5 Number Of Hopping Frequency

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 ≥ RBW.
d) Sweep: Auto.
e) Detector function: Peak.
f) Trace: Max hold.
g) Allow the trace to stabilize

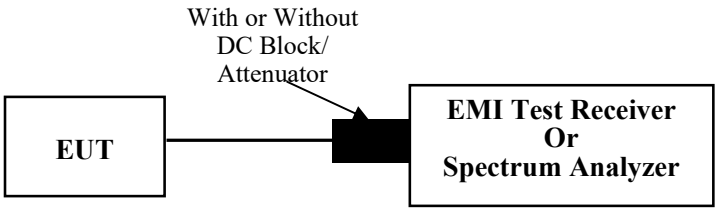
It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

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.

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 ≤ channel spacing and where possible RBW should be set >> 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:

(Number of hops in the period specified in the requirements) =
(number of hops on spectrum analyzer) × (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.

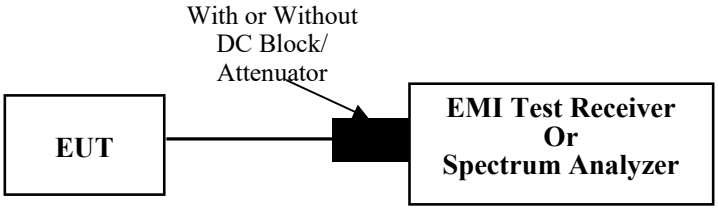
3.7 Maximum Conducted Output Power

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.

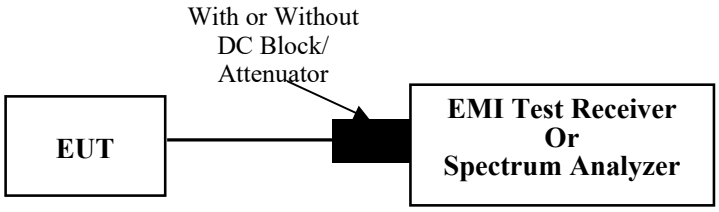
3.8 100 kHz Bandwidth Of Frequency Band Edge

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.

a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × 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. 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:	2CIZ-1	Test Date:	2023/11/23
Test Site:	CE	Test Mode:	Transmitting(maximum output power mode 8DPSK Middle Channel)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	26.2	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101.1

Test Equipment List and Details:

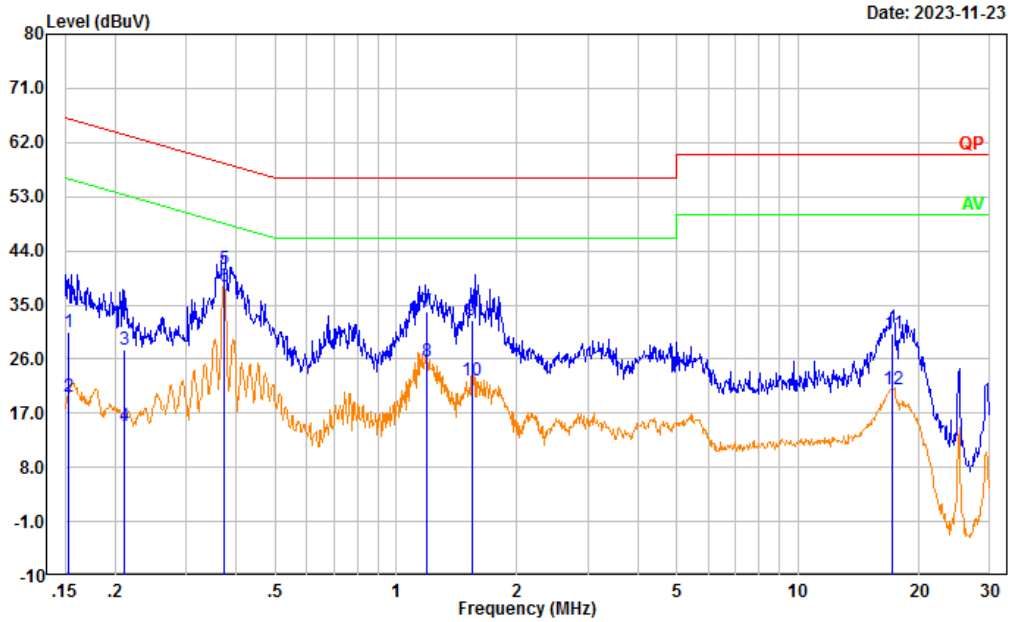
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	N/A

** 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).*

Test Data:

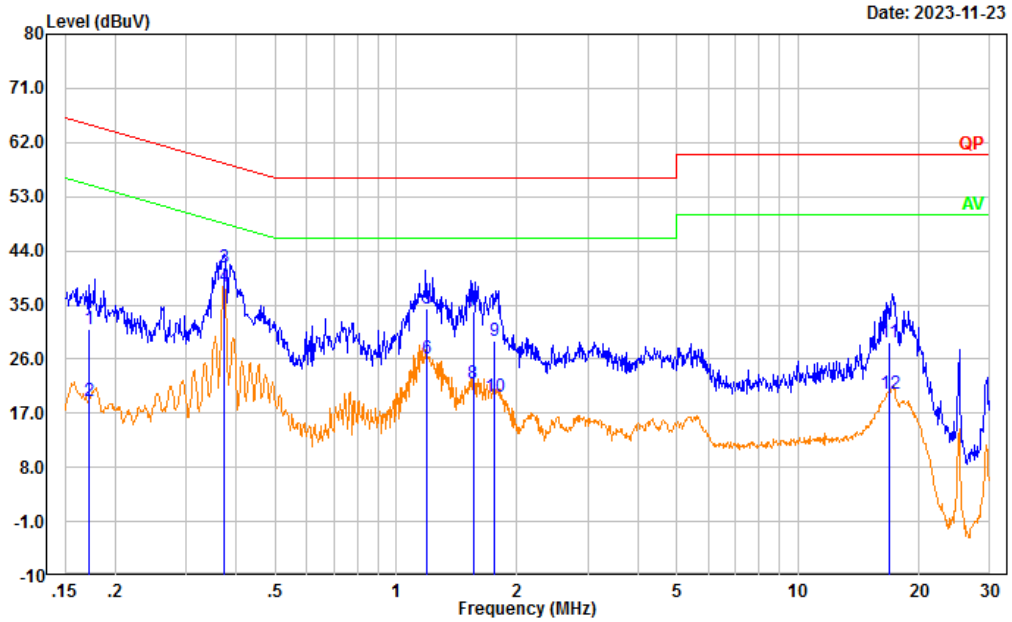
For Adapter GQ06-060040-ZU

Project No.: CR231061541-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT GQ06-060040-ZU)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.153	20.94	9.61	30.55	65.84	35.29	QP
2	0.153	10.06	9.61	19.67	55.84	36.17	Average
3	0.210	18.02	9.61	27.63	63.20	35.57	QP
4	0.210	5.25	9.61	14.86	53.20	38.34	Average
5	0.373	31.38	9.61	40.99	58.43	17.44	QP
6	0.373	28.51	9.61	38.12	48.43	10.31	Average
7	1.188	24.23	9.62	33.85	56.00	22.15	QP
8	1.188	15.94	9.62	25.56	46.00	20.44	Average
9	1.541	22.90	9.63	32.53	56.00	23.47	QP
10	1.541	12.85	9.63	22.48	46.00	23.52	Average
11	17.191	20.60	9.73	30.33	60.00	29.67	QP
12	17.191	11.34	9.73	21.07	50.00	28.93	Average

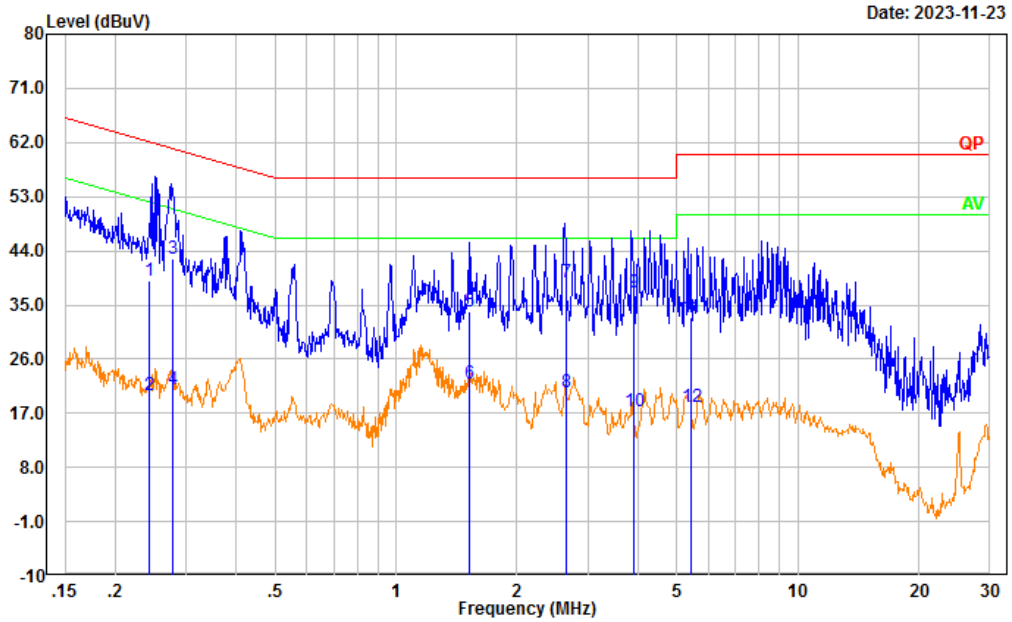
Project No.: CR231061541-RF
Tester: David Huang
Port: neutral
Note: Transmitting(BT GQ06-060040-ZU)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.173	21.26	9.61	30.87	64.84	33.97	QP
2	0.173	9.33	9.61	18.94	54.84	35.90	Average
3	0.374	31.53	9.61	41.14	58.41	17.27	QP
4	0.374	28.33	9.61	37.94	48.41	10.47	Average
5	1.189	24.69	9.62	34.31	56.00	21.69	QP
6	1.189	16.51	9.62	26.13	46.00	19.87	Average
7	1.554	24.21	9.63	33.84	56.00	22.16	QP
8	1.554	12.40	9.63	22.03	46.00	23.97	Average
9	1.761	19.31	9.63	28.94	56.00	27.06	QP
10	1.761	10.12	9.63	19.75	46.00	26.25	Average
11	16.880	19.06	9.69	28.75	60.00	31.25	QP
12	16.880	10.56	9.69	20.25	50.00	29.75	Average

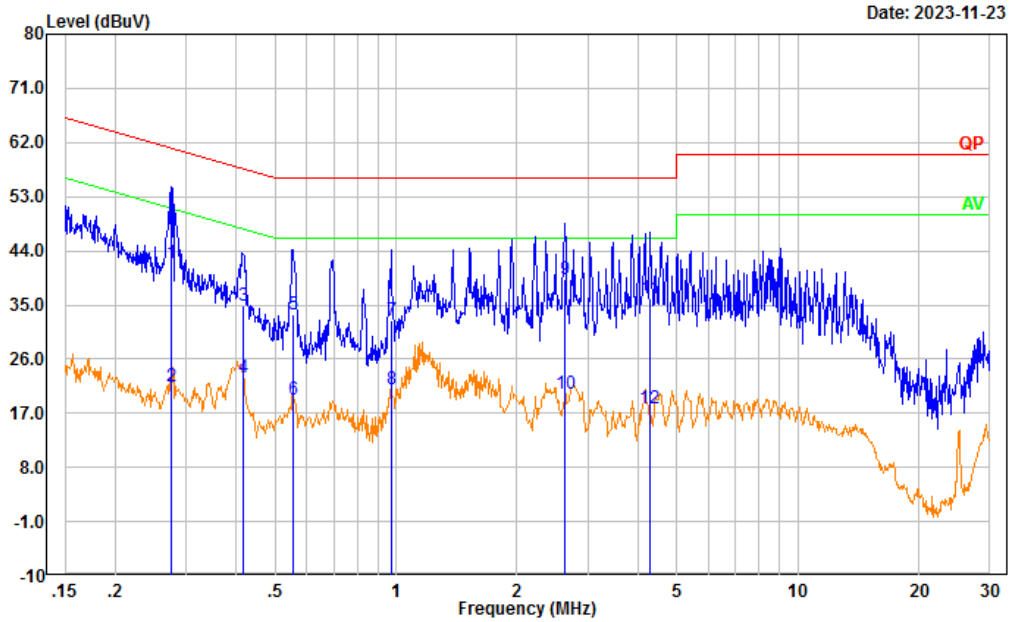
For Adapter VT05UUS06040

Project No.: CR231061541-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT VT05UUS06040)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.244	29.51	9.61	39.12	61.97	22.85	QP
2	0.244	10.51	9.61	20.12	51.97	31.85	Average
3	0.279	32.98	9.61	42.59	60.84	18.25	QP
4	0.279	11.40	9.61	21.01	50.84	29.83	Average
5	1.522	24.23	9.63	33.86	56.00	22.14	QP
6	1.522	12.28	9.63	21.91	46.00	24.09	Average
7	2.642	29.09	9.64	38.73	56.00	17.27	QP
8	2.642	10.88	9.64	20.52	46.00	25.48	Average
9	3.897	27.47	9.65	37.12	56.00	18.88	QP
10	3.897	7.76	9.65	17.41	46.00	28.59	Average
11	5.424	23.24	9.66	32.90	60.00	27.10	QP
12	5.424	8.47	9.66	18.13	50.00	31.87	Average

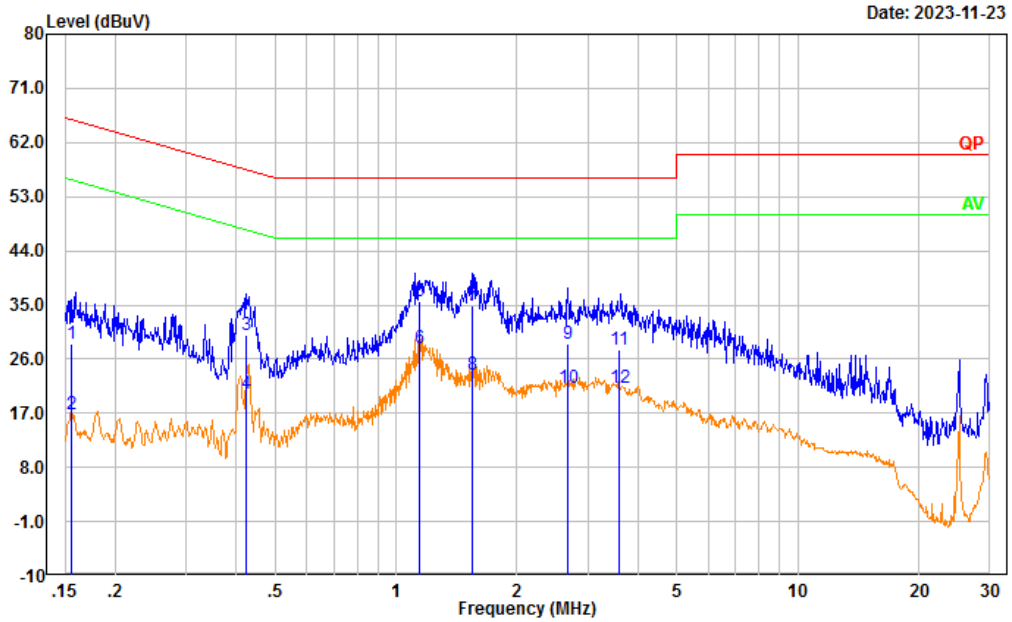
Project No.: CR231061541-RF
Tester: David Huang
Port: neutral
Note: Transmitting(BT VT05UUS06040)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.277	32.39	9.61	42.00	60.91	18.91	QP
2	0.277	11.76	9.61	21.37	50.91	29.54	Average
3	0.416	25.35	9.61	34.96	57.52	22.56	QP
4	0.416	13.29	9.61	22.90	47.52	24.62	Average
5	0.554	23.75	9.62	33.37	56.00	22.63	QP
6	0.554	9.60	9.62	19.22	46.00	26.78	Average
7	0.977	22.90	9.62	32.52	56.00	23.48	QP
8	0.977	11.29	9.62	20.91	46.00	25.09	Average
9	2.629	29.62	9.64	39.26	56.00	16.74	QP
10	2.629	10.61	9.64	20.25	46.00	25.75	Average
11	4.267	26.51	9.65	36.16	56.00	19.84	QP
12	4.267	8.12	9.65	17.77	46.00	28.23	Average

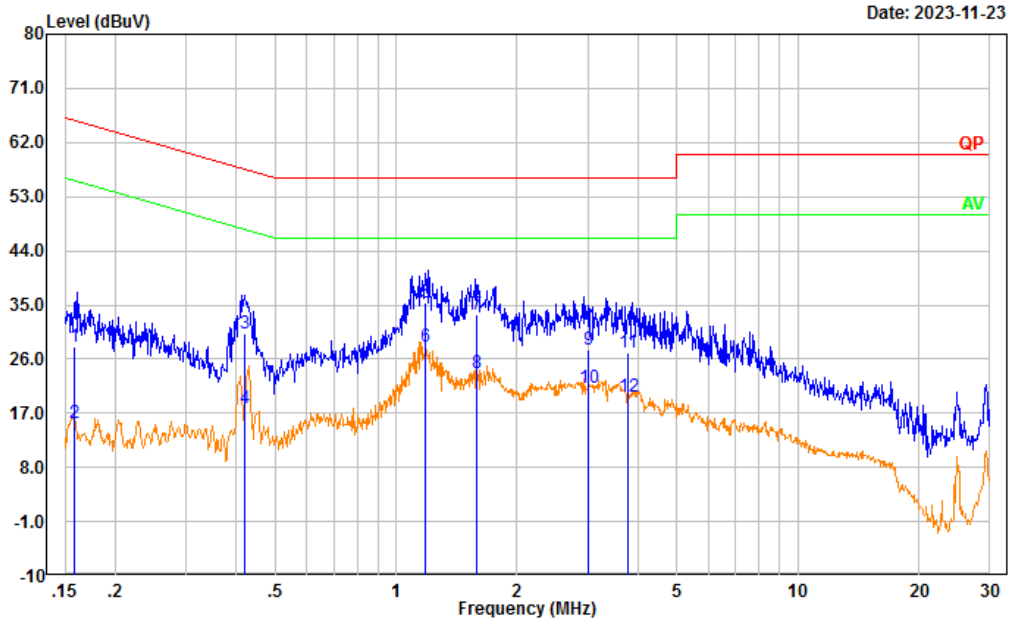
For Adapter A318-060040W-US1

Project No.: CR231061541-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT A318-060040W-US1)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.156	18.84	9.61	28.45	65.67	37.22	QP
2	0.156	7.26	9.61	16.87	55.67	38.80	Average
3	0.424	20.44	9.61	30.05	57.38	27.33	QP
4	0.424	10.64	9.61	20.25	47.38	27.13	Average
5	1.140	26.03	9.62	35.65	56.00	20.35	QP
6	1.140	18.24	9.62	27.86	46.00	18.14	Average
7	1.554	25.31	9.63	34.94	56.00	21.06	QP
8	1.554	13.80	9.63	23.43	46.00	22.57	Average
9	2.664	18.80	9.64	28.44	56.00	27.56	QP
10	2.664	11.50	9.64	21.14	46.00	24.86	Average
11	3.582	17.94	9.65	27.59	56.00	28.41	QP
12	3.582	11.53	9.65	21.18	46.00	24.82	Average

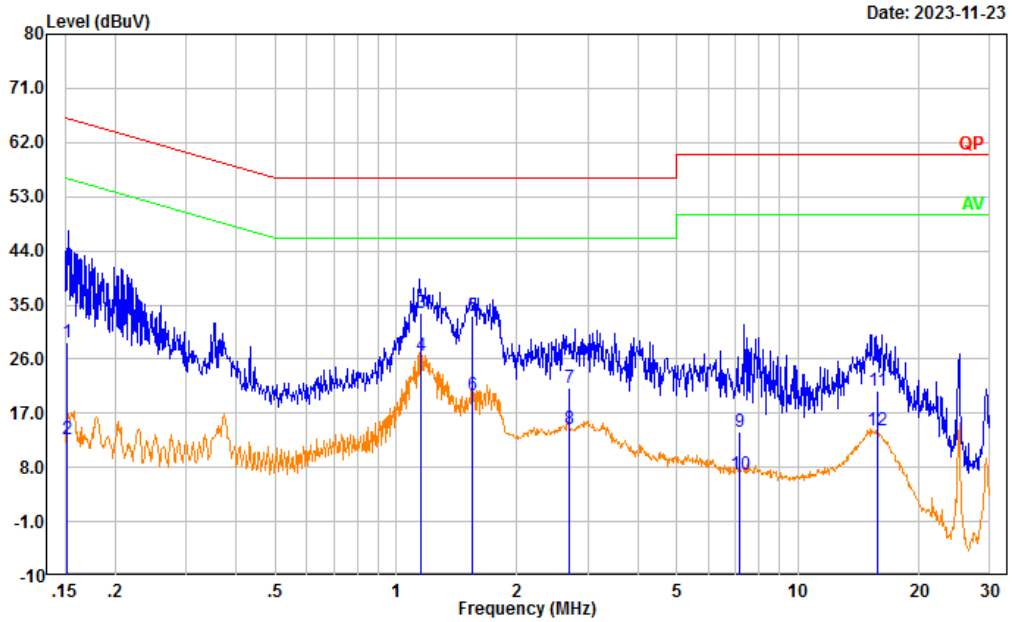
Project No.: CR231061541-RF
Tester: David Huang
Port: neutral
Note: Transmitting(BT A318-060040W-US1)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.158	18.51	9.61	28.12	65.55	37.43	QP
2	0.158	5.68	9.61	15.29	55.55	40.26	Average
3	0.421	20.69	9.61	30.30	57.42	27.12	QP
4	0.421	8.22	9.61	17.83	47.42	29.59	Average
5	1.181	25.81	9.62	35.43	56.00	20.57	QP
6	1.181	18.50	9.62	28.12	46.00	17.88	Average
7	1.586	23.70	9.63	33.33	56.00	22.67	QP
8	1.586	14.04	9.63	23.67	46.00	22.33	Average
9	3.012	18.00	9.65	27.65	56.00	28.35	QP
10	3.012	11.45	9.65	21.10	46.00	24.90	Average
11	3.767	17.45	9.65	27.10	56.00	28.90	QP
12	3.767	10.05	9.65	19.70	46.00	26.30	Average

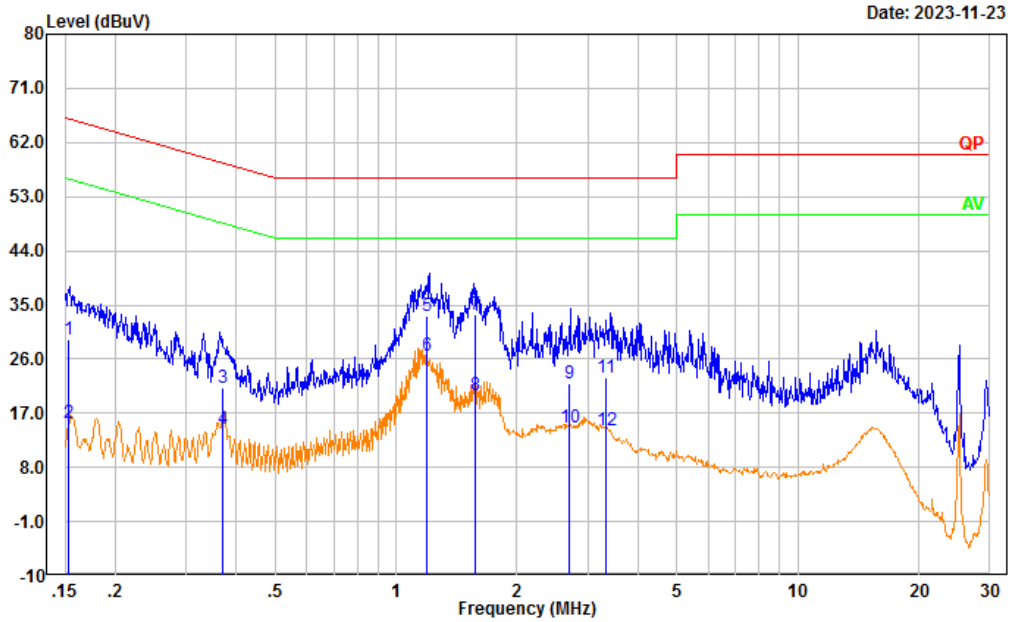
For Adapter E004-1A060040VU

Project No.: CR231061541-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT E004-1A060040VU)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.151	19.29	9.61	28.90	65.93	37.03	QP
2	0.151	3.16	9.61	12.77	55.93	43.16	Average
3	1.155	23.94	9.62	33.56	56.00	22.44	QP
4	1.155	16.98	9.62	26.60	46.00	19.40	Average
5	1.554	23.56	9.63	33.19	56.00	22.81	QP
6	1.554	10.38	9.63	20.01	46.00	25.99	Average
7	2.700	11.47	9.64	21.11	56.00	34.89	QP
8	2.700	4.79	9.64	14.43	46.00	31.57	Average
9	7.141	4.13	9.66	13.79	60.00	46.21	QP
10	7.141	-2.80	9.66	6.86	50.00	43.14	Average
11	15.715	10.92	9.70	20.62	60.00	39.38	QP
12	15.715	4.37	9.70	14.07	50.00	35.93	Average

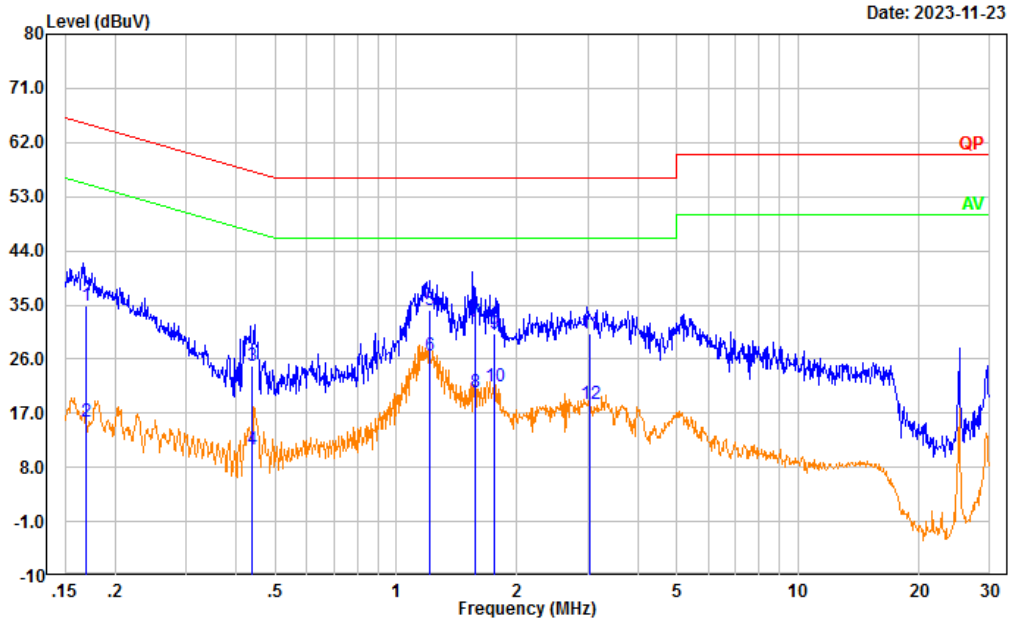
Project No.: CR231061541-RF
Tester: David Huang
Port: neutral
Note: Transmitting(BT E004-1A060040VU)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.153	19.76	9.61	29.37	65.82	36.45	QP
2	0.153	5.67	9.61	15.28	55.82	40.54	Average
3	0.369	11.57	9.61	21.18	58.52	37.34	QP
4	0.369	4.72	9.61	14.33	48.52	34.19	Average
5	1.189	23.65	9.62	33.27	56.00	22.73	QP
6	1.189	17.00	9.62	26.62	46.00	19.38	Average
7	1.577	23.74	9.63	33.37	56.00	22.63	QP
8	1.577	10.26	9.63	19.89	46.00	26.11	Average
9	2.705	12.24	9.64	21.88	56.00	34.12	QP
10	2.705	4.87	9.64	14.51	46.00	31.49	Average
11	3.320	13.36	9.65	23.01	56.00	32.99	QP
12	3.320	4.57	9.65	14.22	46.00	31.78	Average

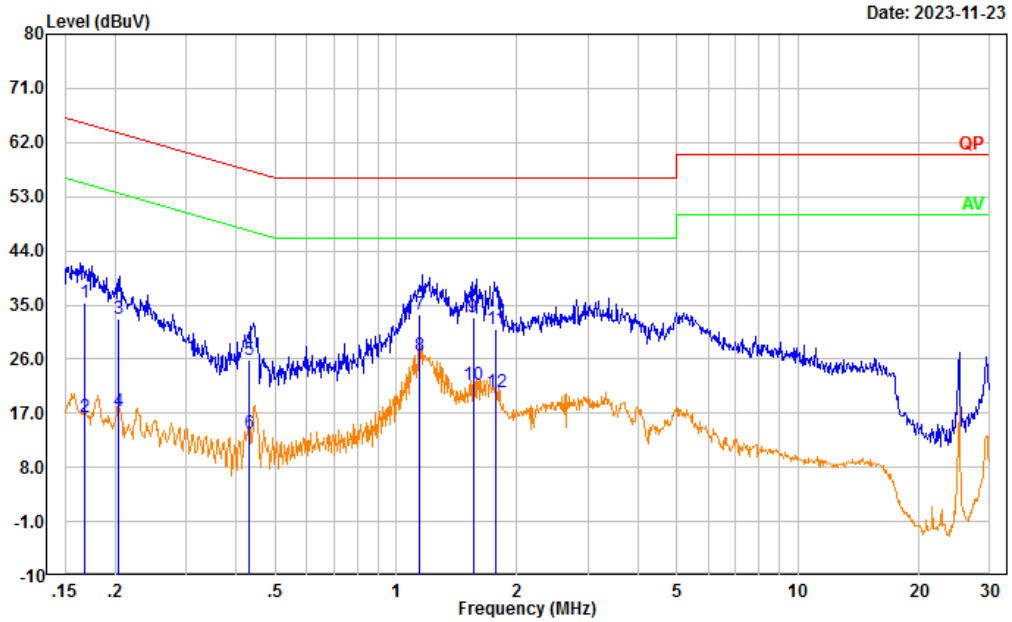
For Adapter DSA-3PFM-05 BUS 060040

Project No.: CR231061541-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT DSA-3PFM-05 BUS 060040)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.169	25.20	9.61	34.81	65.02	30.21	QP
2	0.169	5.91	9.61	15.52	55.02	39.50	Average
3	0.437	15.24	9.61	24.85	57.13	32.28	QP
4	0.437	1.36	9.61	10.97	47.13	36.16	Average
5	1.213	24.54	9.62	34.16	56.00	21.84	QP
6	1.213	17.03	9.62	26.65	46.00	19.35	Average
7	1.580	22.46	9.63	32.09	56.00	23.91	QP
8	1.580	10.80	9.63	20.43	46.00	25.57	Average
9	1.759	20.59	9.63	30.22	56.00	25.78	QP
10	1.759	11.86	9.63	21.49	46.00	24.51	Average
11	3.033	20.58	9.65	30.23	56.00	25.77	QP
12	3.033	9.00	9.65	18.65	46.00	27.35	Average

Project No.: CR231061541-RF
Tester: David Huang
Port: neutral
Note: Transmitting(BT DSA-3PFM-05 BUS 060040)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.168	25.69	9.61	35.30	65.05	29.75	QP
2	0.168	6.80	9.61	16.41	55.05	38.64	Average
3	0.204	23.00	9.61	32.61	63.43	30.82	QP
4	0.204	7.79	9.61	17.40	53.43	36.03	Average
5	0.431	16.18	9.61	25.79	57.24	31.45	QP
6	0.431	3.93	9.61	13.54	47.24	33.70	Average
7	1.142	23.84	9.62	33.46	56.00	22.54	QP
8	1.142	16.92	9.62	26.54	46.00	19.46	Average
9	1.554	23.36	9.63	32.99	56.00	23.01	QP
10	1.554	12.09	9.63	21.72	46.00	24.28	Average
11	1.769	21.42	9.63	31.05	56.00	24.95	QP
12	1.769	10.82	9.63	20.45	46.00	25.55	Average

4.2 Radiated Spurious Emissions

Serial Number:	2CIZ-1	Test Date:	Below 1GHz: 2023/11/24 Above 1GHz: 2023/11/22
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Vic Du, Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.7~25.7	Relative Humidity: (%)	47~ 63	ATM Pressure: (kPa)	101~101.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
Above 1GHz					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5

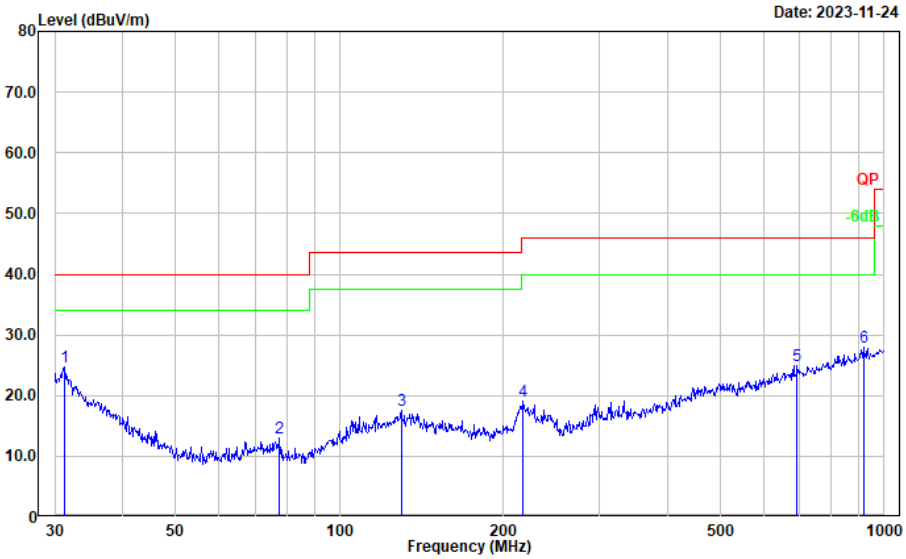
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

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

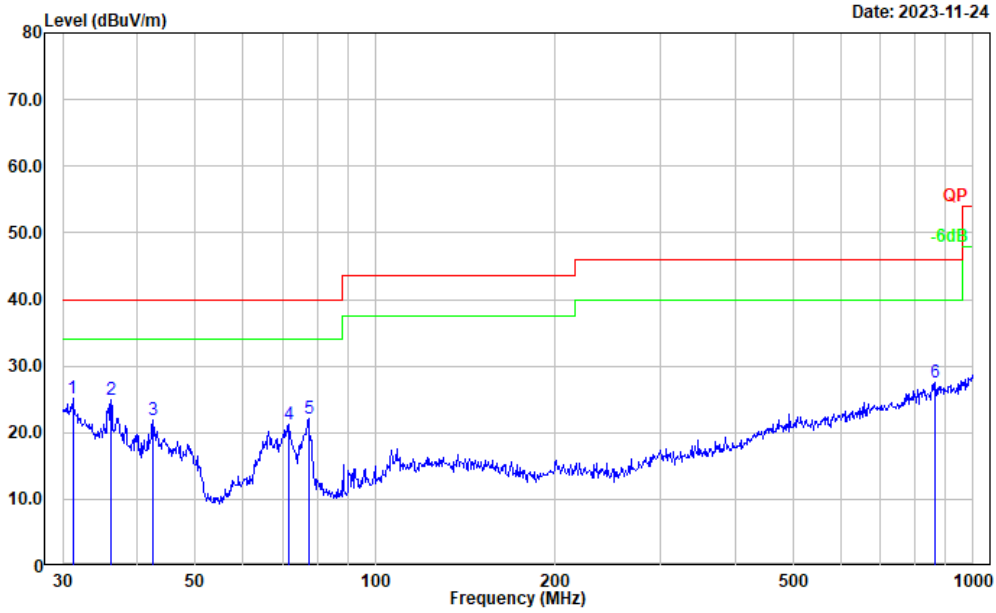
1) 30MHz-1GHz (Maximum output power mode 8DPSK)
For Adapter GQ06-060040-ZU, Low Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(GQ06-060040-ZU) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.289	29.41	-4.77	24.64	40.00	15.36	Peak
2	77.593	30.14	-17.23	12.91	40.00	27.09	Peak
3	129.923	28.82	-11.29	17.53	43.50	25.97	Peak
4	217.544	31.81	-12.76	19.05	46.00	26.95	Peak
5	691.987	28.56	-3.56	25.00	46.00	21.00	Peak
6	916.069	28.57	-0.64	27.93	46.00	18.07	Peak

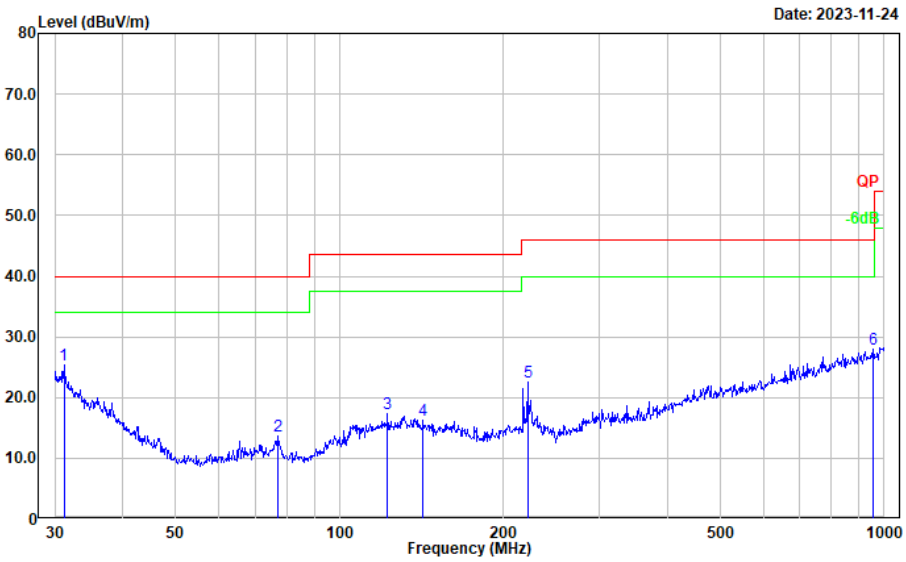
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.180	29.94	-4.69	25.25	40.00	14.75	Peak
2	36.127	33.32	-8.48	24.84	40.00	15.16	Peak
3	42.451	34.67	-12.78	21.89	40.00	18.11	Peak
4	71.832	38.02	-16.74	21.28	40.00	18.72	Peak
5	77.321	39.29	-17.21	22.08	40.00	17.92	Peak
6	863.056	28.73	-1.25	27.48	46.00	18.52	Peak

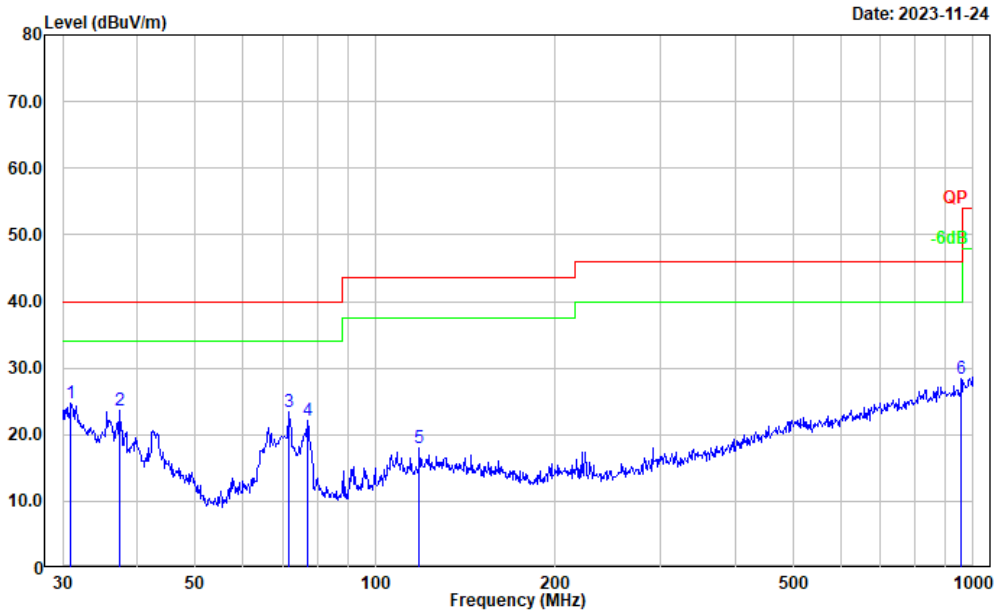
Middle Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: EDR Mode Transmitting BT (GQ06-060040-ZU) 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.180	30.07	-4.69	25.38	40.00	14.62	Peak
2	77.051	30.76	-17.17	13.59	40.00	26.41	Peak
3	122.404	28.82	-11.41	17.41	43.50	26.09	Peak
4	142.324	27.98	-11.82	16.16	43.50	27.34	Peak
5	221.392	35.45	-12.88	22.57	46.00	23.43	Peak
6	955.438	28.08	-0.15	27.93	46.00	18.07	Peak

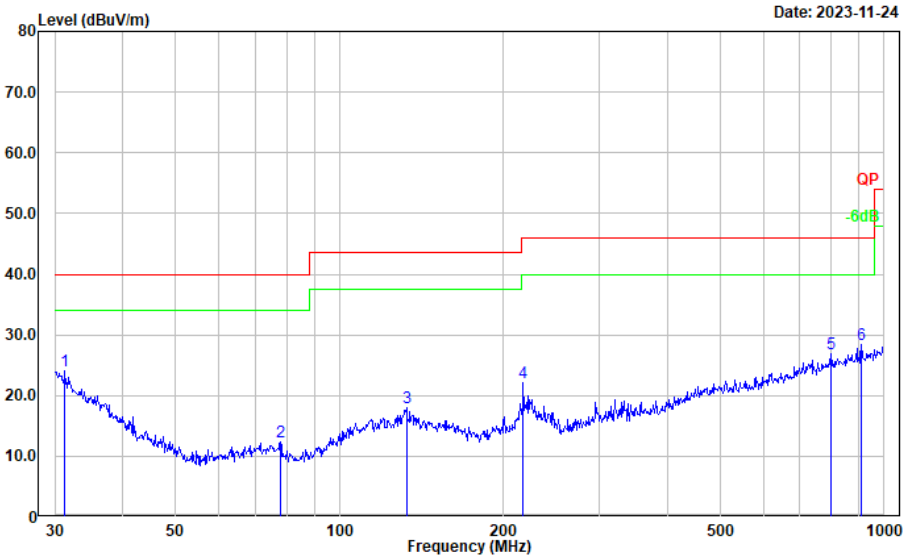
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(GQ06-060040-ZU) EDR Mode 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.962	29.33	-4.53	24.80	40.00	15.20	Peak
2	37.416	33.01	-9.44	23.57	40.00	16.43	Peak
3	71.832	40.10	-16.74	23.36	40.00	16.64	Peak
4	77.051	39.27	-17.17	22.10	40.00	17.90	Peak
5	118.601	29.66	-11.57	18.09	43.50	25.41	Peak
6	955.438	28.53	-0.15	28.38	46.00	17.62	Peak

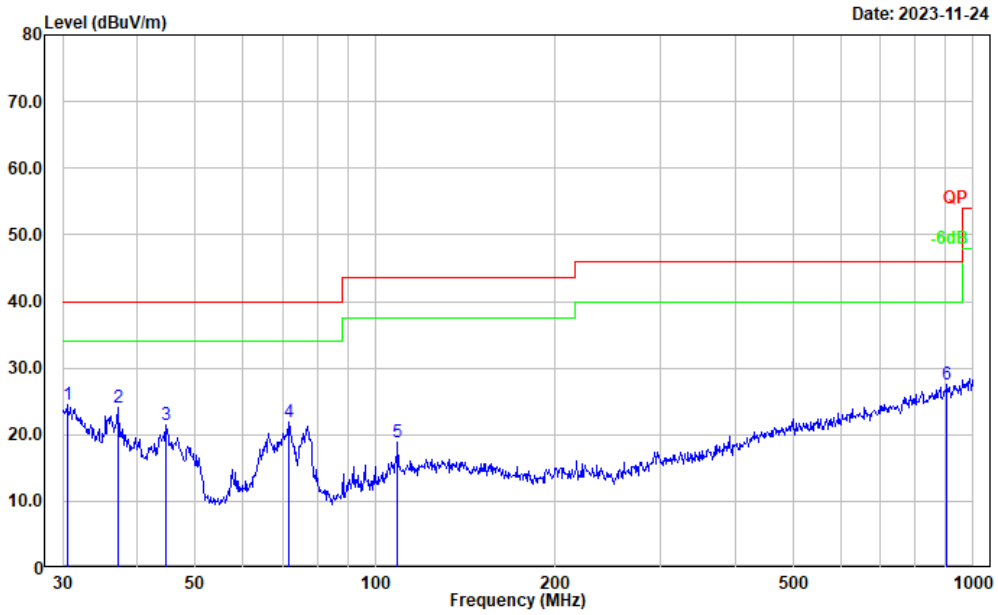
High Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(GQ06-060040-ZU) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.289	28.86	-4.77	24.09	40.00	15.91	Peak
2	77.865	29.62	-17.27	12.35	40.00	27.65	Peak
3	132.685	29.45	-11.45	18.00	43.50	25.50	Peak
4	217.544	34.80	-12.76	22.04	46.00	23.96	Peak
5	798.980	29.04	-2.16	26.88	46.00	19.12	Peak
6	909.667	29.07	-0.62	28.45	46.00	17.55	Peak

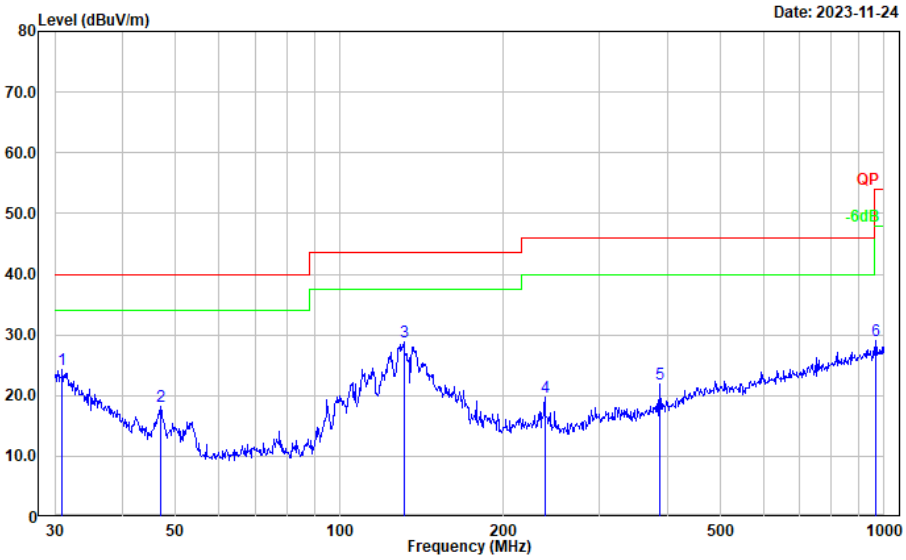
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(GQ06-060040-ZU) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.531	28.70	-4.20	24.50	40.00	15.50	Peak
2	37.155	33.33	-9.25	24.08	40.00	15.92	Peak
3	44.587	35.52	-14.00	21.52	40.00	18.48	Peak
4	71.832	38.60	-16.74	21.86	40.00	18.14	Peak
5	109.029	31.37	-12.45	18.92	43.50	24.58	Peak
6	903.309	28.37	-0.80	27.57	46.00	18.43	Peak

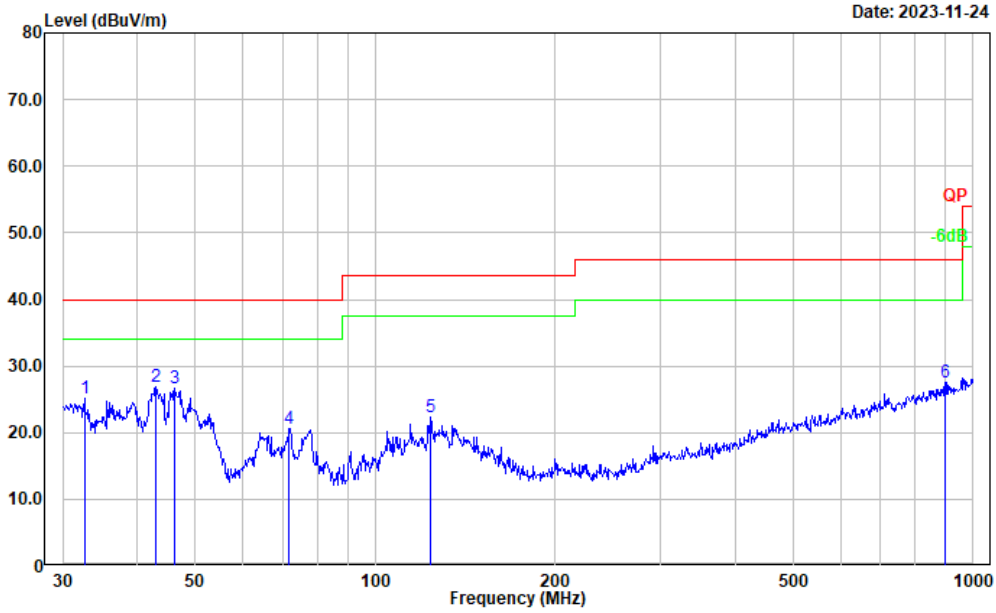
For Adapter VT05UUS06040, Low Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(VT05UUS06040) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.962	28.91	-4.53	24.38	40.00	15.62	Peak
2	46.830	33.53	-15.29	18.24	40.00	21.76	Peak
3	131.297	40.13	-11.34	28.79	43.50	14.71	Peak
4	238.310	32.90	-13.12	19.78	46.00	26.22	Peak
5	386.634	30.94	-8.97	21.97	46.00	24.03	Peak
6	965.542	28.89	0.12	29.01	54.00	24.99	Peak

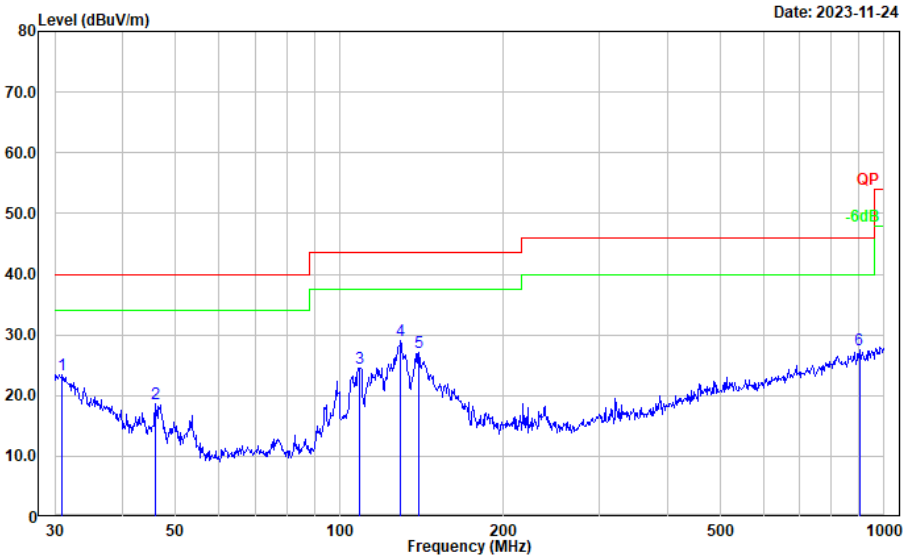
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(VT05UUS06040) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	32.634	31.05	-5.80	25.25	40.00	14.75	Peak
2	43.050	39.94	-13.14	26.80	40.00	13.20	Peak
3	46.178	41.64	-14.92	26.72	40.00	13.28	Peak
4	71.832	37.39	-16.74	20.65	40.00	19.35	Peak
5	123.699	33.67	-11.39	22.28	43.50	21.22	Peak
6	896.997	28.47	-0.95	27.52	46.00	18.48	Peak

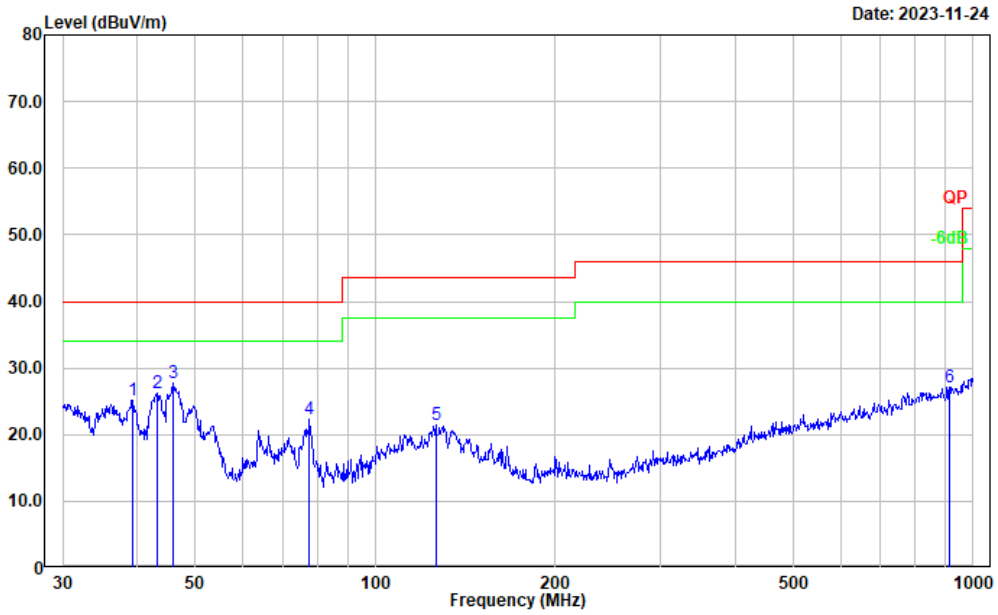
Middle Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(VT05UUS06040) EDR Mode 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.962	28.03	-4.53	23.50	40.00	16.50	Peak
2	46.016	33.50	-14.83	18.67	40.00	21.33	Peak
3	109.029	37.03	-12.45	24.58	43.50	18.92	Peak
4	129.468	40.35	-11.28	29.07	43.50	14.43	Peak
5	139.851	38.88	-11.76	27.12	43.50	16.38	Peak
6	900.147	28.48	-0.86	27.62	46.00	18.38	Peak

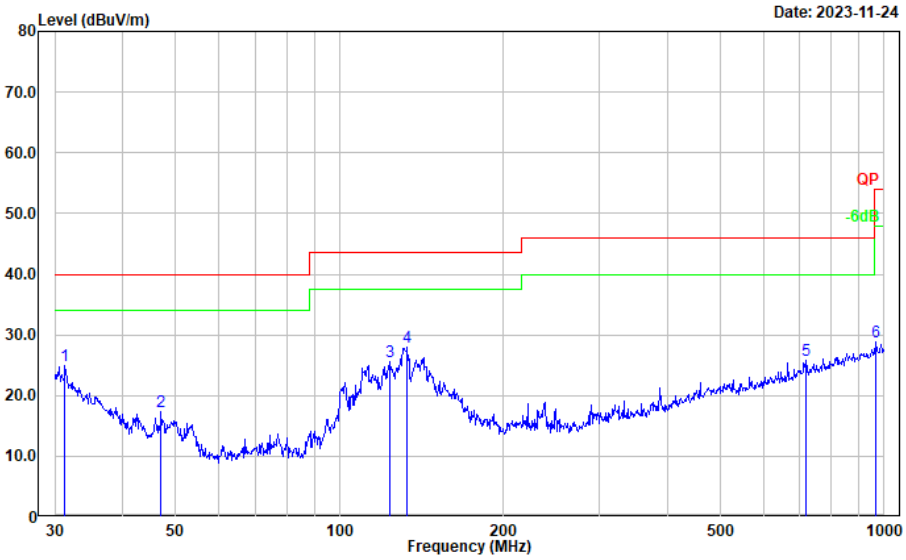
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(VT05UUS06040) EDR Mode 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	39.299	36.12	-10.87	25.25	40.00	14.75	Peak
2	43.202	39.49	-13.23	26.26	40.00	13.74	Peak
3	45.855	42.50	-14.73	27.77	40.00	12.23	Peak
4	77.593	39.53	-17.23	22.30	40.00	17.70	Peak
5	126.329	32.85	-11.32	21.53	43.50	21.97	Peak
6	912.862	27.81	-0.62	27.19	46.00	18.81	Peak

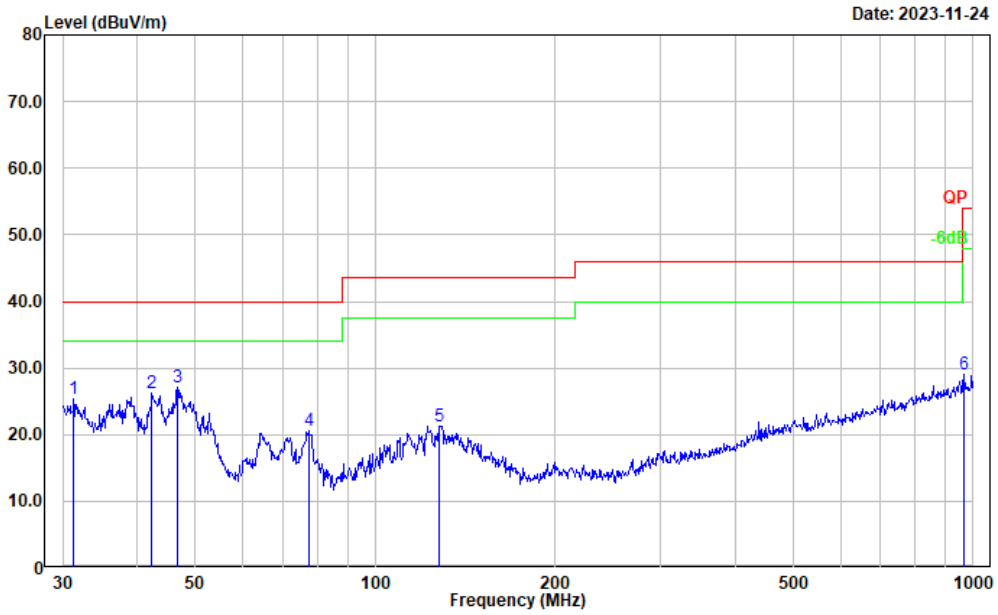
High Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(VT05UUS06040) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.289	29.70	-4.77	24.93	40.00	15.07	Peak
2	46.995	32.83	-15.39	17.44	40.00	22.56	Peak
3	123.699	36.99	-11.39	25.60	43.50	17.90	Peak
4	133.151	39.36	-11.49	27.87	43.50	15.63	Peak
5	716.682	29.17	-3.45	25.72	46.00	20.28	Peak
6	965.542	28.76	0.12	28.88	54.00	25.12	Peak

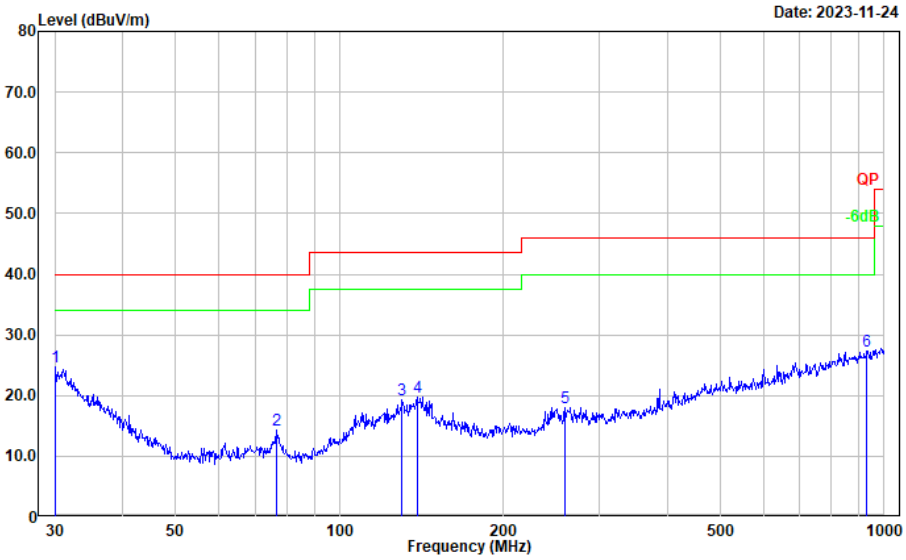
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(VT05UUS06040) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.289	30.23	-4.77	25.46	40.00	14.54	Peak
2	42.302	38.99	-12.69	26.30	40.00	13.70	Peak
3	46.666	42.37	-15.20	27.17	40.00	12.83	Peak
4	77.321	37.74	-17.21	20.53	40.00	19.47	Peak
5	127.665	32.63	-11.30	21.33	43.50	22.17	Peak
6	965.542	28.85	0.12	28.97	54.00	25.03	Peak

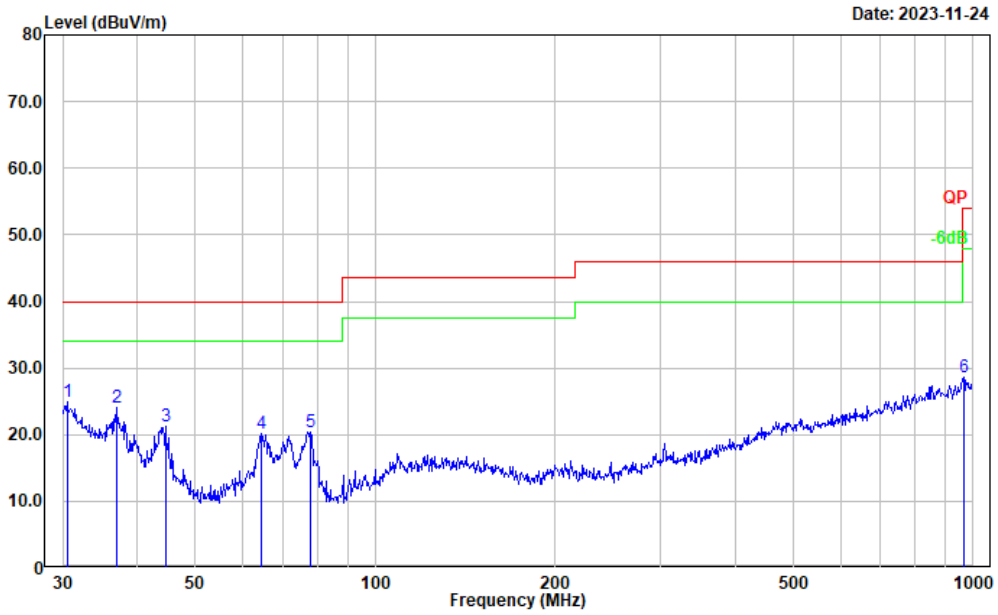
For Adapter A318-060040W-US1, Low Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(A318-060040W-US1) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.105	28.51	-3.88	24.63	40.00	15.37	Peak
2	76.512	31.54	-17.13	14.41	40.00	25.59	Peak
3	130.379	30.53	-11.31	19.22	43.50	24.28	Peak
4	138.874	31.41	-11.71	19.70	43.50	23.80	Peak
5	259.234	30.58	-12.56	18.02	46.00	27.98	Peak
6	929.008	27.94	-0.59	27.35	46.00	18.65	Peak

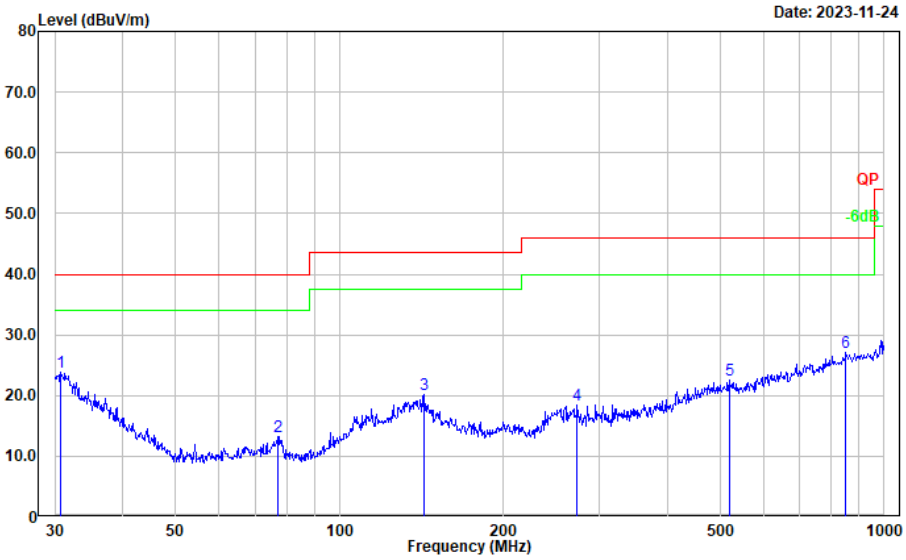
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(A318-060040W-US1) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.531	29.12	-4.20	24.92	40.00	15.08	Peak
2	36.895	33.08	-9.06	24.02	40.00	15.98	Peak
3	44.587	35.23	-14.00	21.23	40.00	18.77	Peak
4	64.433	37.15	-16.99	20.16	40.00	19.84	Peak
5	77.865	37.72	-17.27	20.45	40.00	19.55	Peak
6	965.542	28.41	0.12	28.53	54.00	25.47	Peak

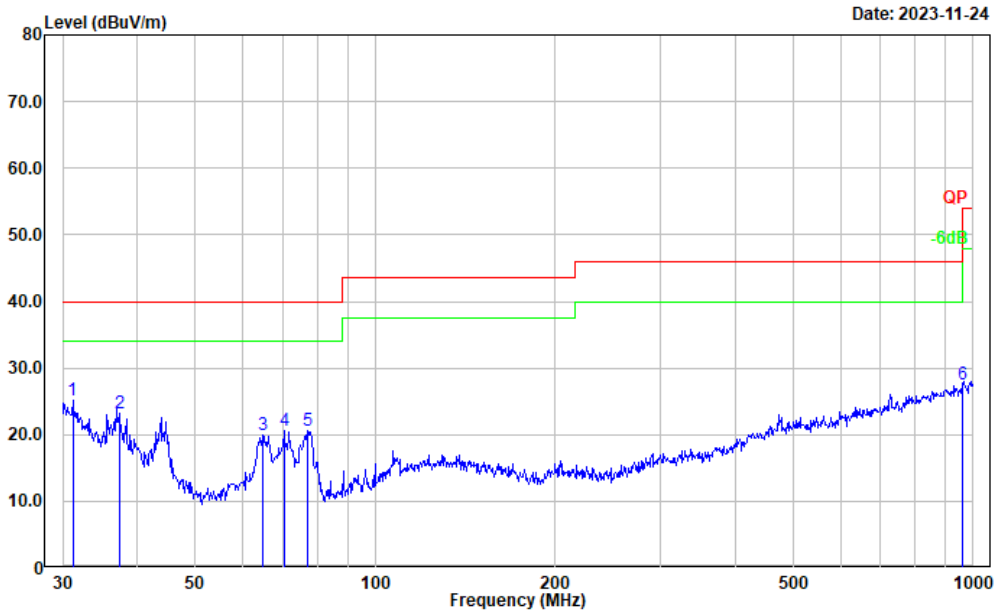
Middle Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(A318-060040W-US1) EDR Mode 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.745	28.15	-4.36	23.79	40.00	16.21	Peak
2	77.051	30.43	-17.17	13.26	40.00	26.74	Peak
3	143.326	31.97	-11.83	20.14	43.50	23.36	Peak
4	273.234	30.51	-12.02	18.49	46.00	27.51	Peak
5	519.065	28.34	-5.84	22.50	46.00	23.50	Peak
6	851.035	28.62	-1.56	27.06	46.00	18.94	Peak

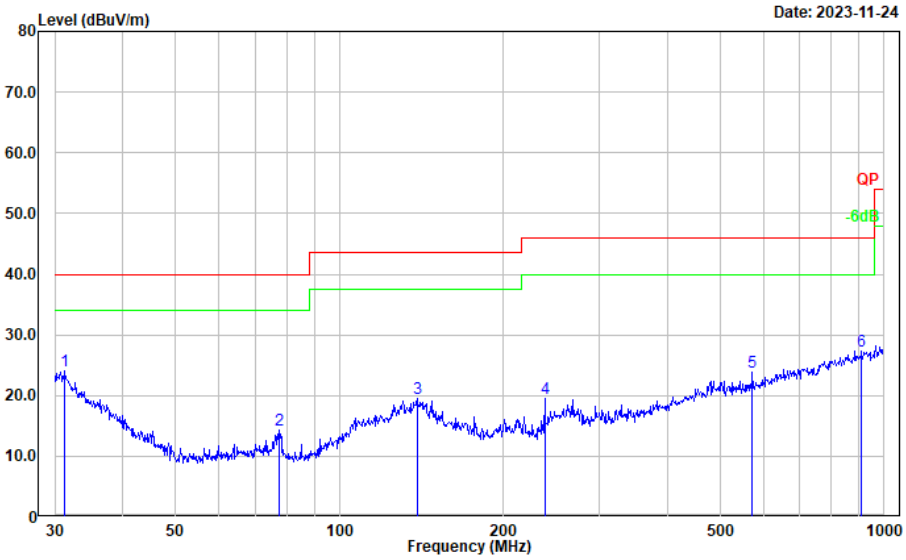
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(A318-060040W-US1) EDR Mode 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.180	29.84	-4.69	25.15	40.00	14.85	Peak
2	37.285	32.45	-9.35	23.10	40.00	16.90	Peak
3	64.887	36.80	-16.94	19.86	40.00	20.14	Peak
4	70.337	37.15	-16.60	20.55	40.00	19.45	Peak
5	77.051	37.81	-17.17	20.64	40.00	19.36	Peak
6	962.162	27.46	0.04	27.50	54.00	26.50	Peak

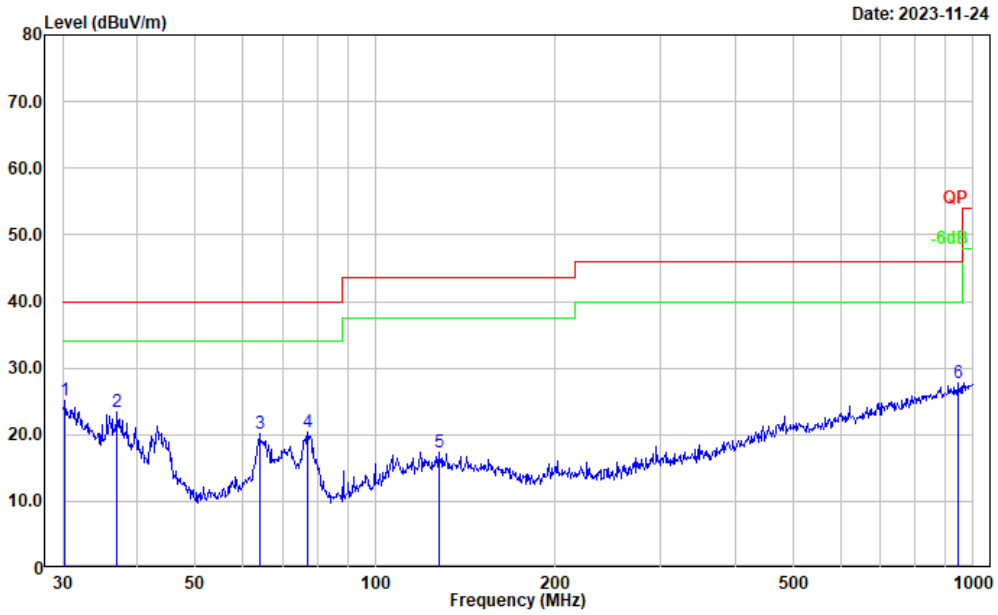
High Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(A318-060040W-US1) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.289	28.75	-4.77	23.98	40.00	16.02	Peak
2	77.321	31.45	-17.21	14.24	40.00	25.76	Peak
3	138.874	31.13	-11.71	19.42	43.50	24.08	Peak
4	238.310	32.62	-13.12	19.50	46.00	26.50	Peak
5	572.614	29.40	-5.60	23.80	46.00	22.20	Peak
6	909.667	27.97	-0.62	27.35	46.00	18.65	Peak

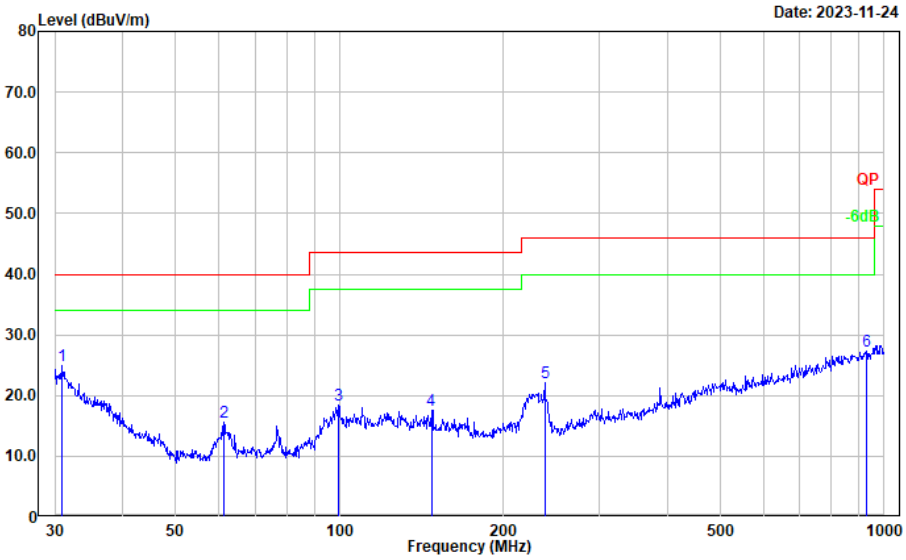
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(A318-060040W-US1) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.317	29.09	-4.04	25.05	40.00	14.95	Peak
2	37.025	32.54	-9.16	23.38	40.00	16.62	Peak
3	63.983	37.28	-17.02	20.26	40.00	19.74	Peak
4	77.051	37.51	-17.17	20.34	40.00	19.66	Peak
5	127.665	28.58	-11.30	17.28	43.50	26.22	Peak
6	945.440	28.11	-0.36	27.75	46.00	18.25	Peak

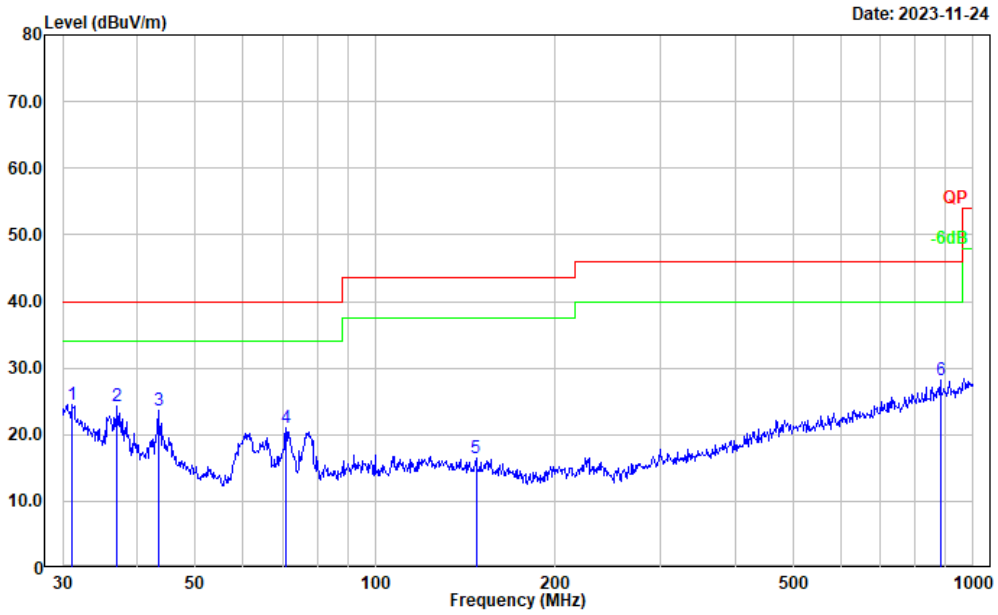
For Adapter E004-1A060040VU, Low Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(E004-1A060040VU) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.962	29.45	-4.53	24.92	40.00	15.08	Peak
2	61.346	32.80	-17.25	15.55	40.00	24.45	Peak
3	99.528	32.94	-14.43	18.51	43.50	24.99	Peak
4	147.404	29.45	-11.89	17.56	43.50	25.94	Peak
5	238.310	35.14	-13.12	22.02	46.00	23.98	Peak
6	925.756	27.98	-0.63	27.35	46.00	18.65	Peak

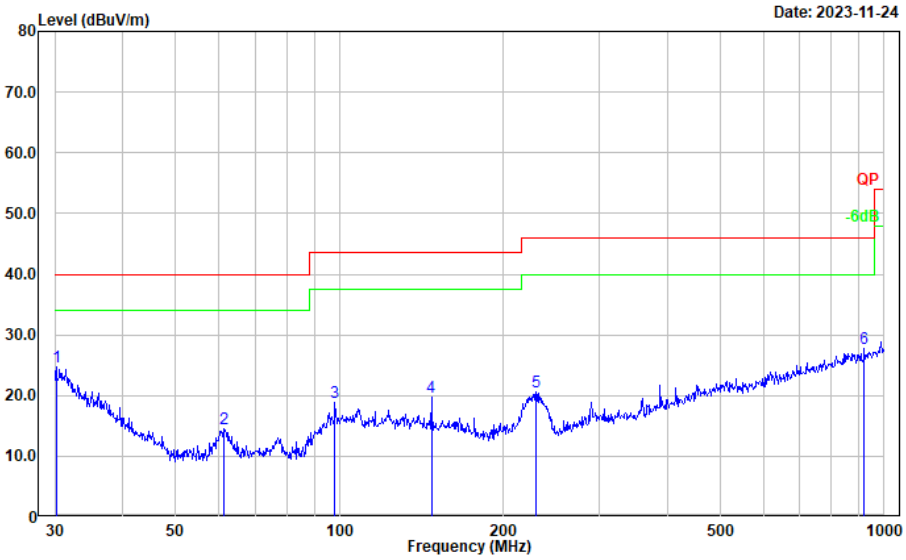
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(E004-1A060040VU) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.071	29.10	-4.61	24.49	40.00	15.51	Peak
2	37.025	33.46	-9.16	24.30	40.00	15.70	Peak
3	43.353	37.01	-13.32	23.69	40.00	16.31	Peak
4	70.832	37.60	-16.64	20.96	40.00	19.04	Peak
5	147.404	28.40	-11.89	16.51	43.50	26.99	Peak
6	881.407	29.25	-1.14	28.11	46.00	17.89	Peak

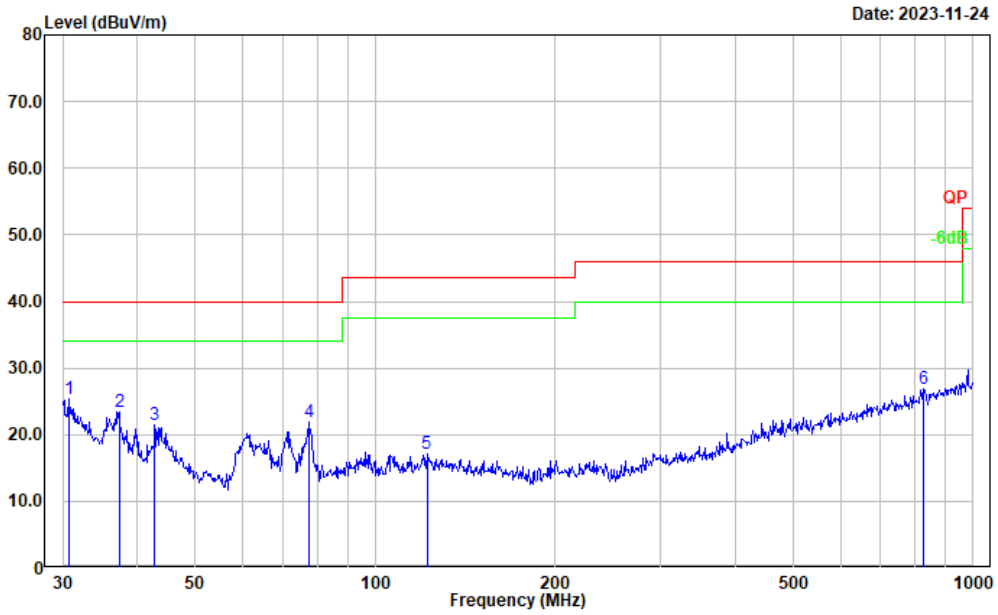
Middle Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(E004-1A060040VU) EDR Mode 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.211	28.72	-3.96	24.76	40.00	15.24	Peak
2	61.346	31.72	-17.25	14.47	40.00	25.53	Peak
3	98.142	33.57	-14.75	18.82	43.50	24.68	Peak
4	147.404	31.72	-11.89	19.83	43.50	23.67	Peak
5	229.293	33.54	-13.03	20.51	46.00	25.49	Peak
6	919.287	28.43	-0.66	27.77	46.00	18.23	Peak

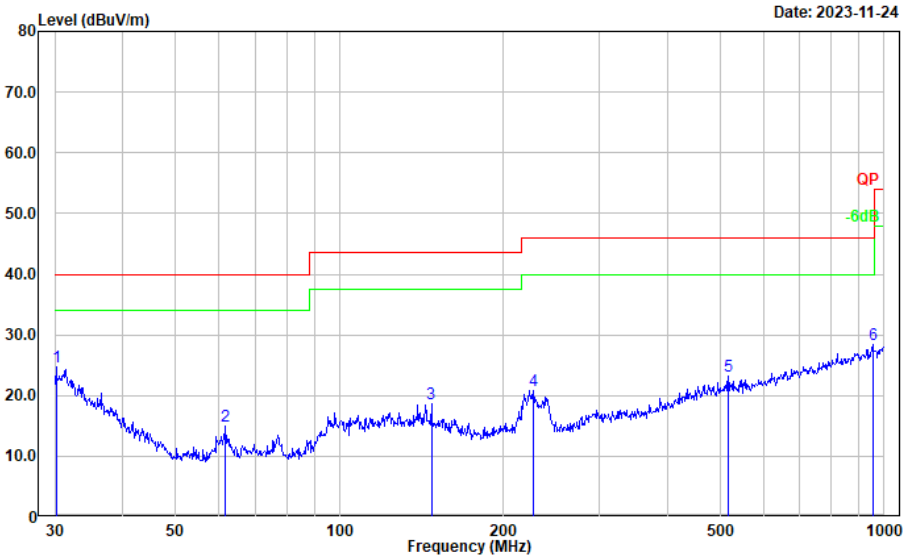
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(E004-1A060040VU) EDR Mode 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.745	29.71	-4.36	25.35	40.00	14.65	Peak
2	37.285	32.82	-9.35	23.47	40.00	16.53	Peak
3	42.750	34.46	-12.96	21.50	40.00	18.50	Peak
4	77.321	39.02	-17.21	21.81	40.00	18.19	Peak
5	121.976	28.56	-11.42	17.14	43.50	26.36	Peak
6	824.597	28.50	-1.65	26.85	46.00	19.15	Peak

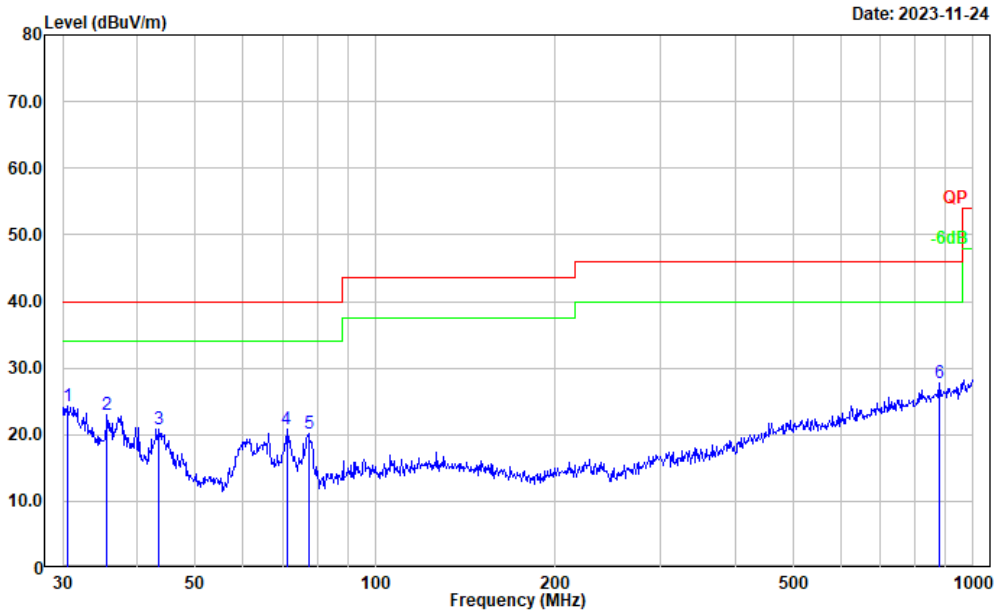
High Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(E004-1A060040VU) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.211	28.63	-3.96	24.67	40.00	15.33	Peak
2	61.778	32.09	-17.21	14.88	40.00	25.12	Peak
3	147.404	30.52	-11.89	18.63	43.50	24.87	Peak
4	226.894	33.88	-12.97	20.91	46.00	25.09	Peak
5	517.248	28.93	-5.83	23.10	46.00	22.90	Peak
6	952.094	28.53	-0.22	28.31	46.00	17.69	Peak

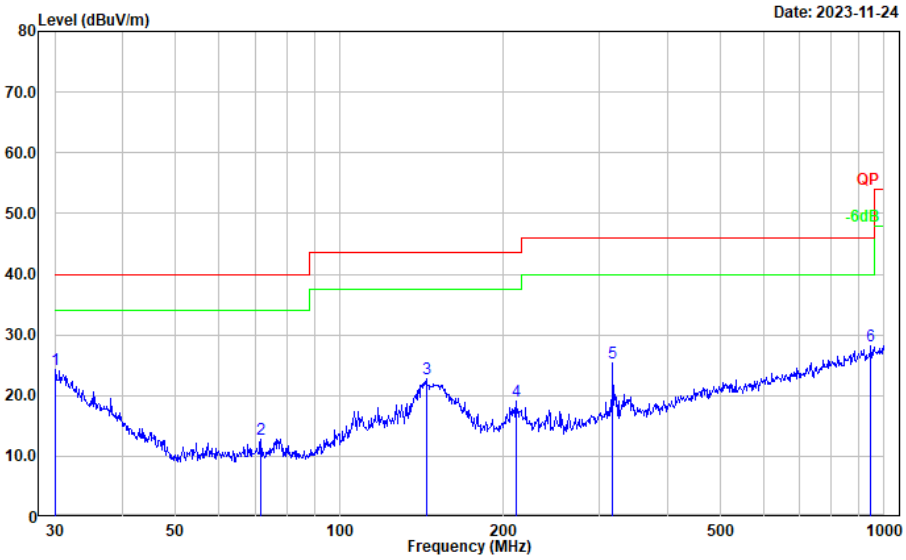
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(E004-1A060040VU) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.531	28.46	-4.20	24.26	40.00	15.74	Peak
2	35.624	30.99	-8.10	22.89	40.00	17.11	Peak
3	43.506	34.23	-13.40	20.83	40.00	19.17	Peak
4	71.080	37.50	-16.68	20.82	40.00	19.18	Peak
5	77.321	37.40	-17.21	20.19	40.00	19.81	Peak
6	878.322	28.90	-1.17	27.73	46.00	18.27	Peak

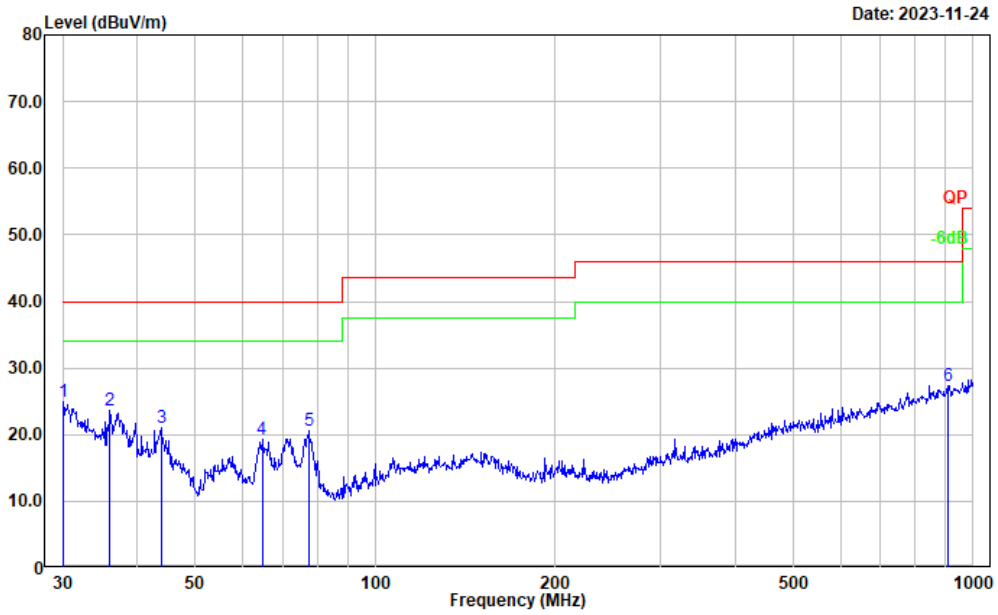
For Adapter DSA-3PFM-05 BUS 060040, Low Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(DSA-3PFM-05 BUS 060040) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.105	28.07	-3.88	24.19	40.00	15.81	Peak
2	71.832	29.49	-16.74	12.75	40.00	27.25	Peak
3	144.335	34.58	-11.86	22.72	43.50	20.78	Peak
4	210.786	31.62	-12.52	19.10	43.50	24.40	Peak
5	317.701	35.84	-10.58	25.26	46.00	20.74	Peak
6	945.440	28.49	-0.36	28.13	46.00	17.87	Peak

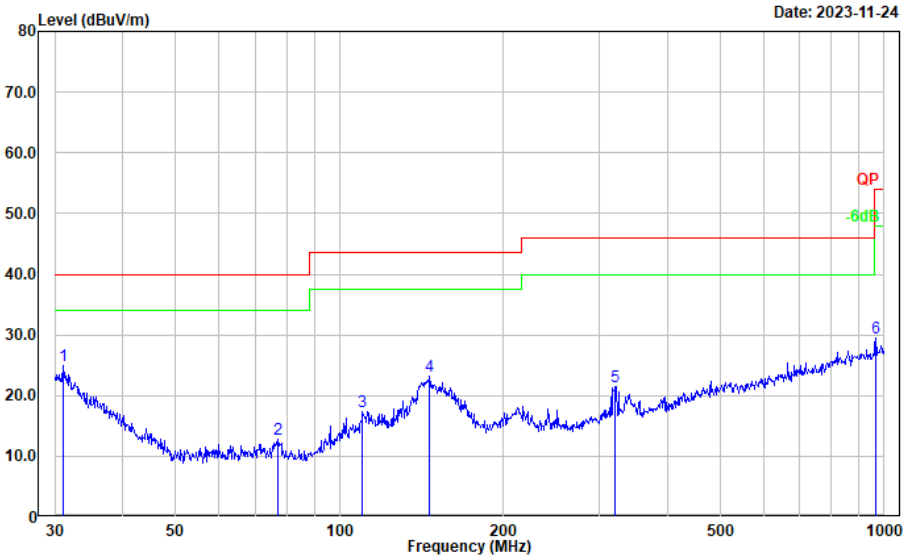
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(DSA-3PFM-05 BUS 060040) EDR Mode 8DPSK Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.105	28.76	-3.88	24.88	40.00	15.12	Peak
2	36.001	31.96	-8.38	23.58	40.00	16.42	Peak
3	43.812	34.57	-13.58	20.99	40.00	19.01	Peak
4	64.659	36.32	-16.95	19.37	40.00	20.63	Peak
5	77.321	37.87	-17.21	20.66	40.00	19.34	Peak
6	909.667	27.97	-0.62	27.35	46.00	18.65	Peak

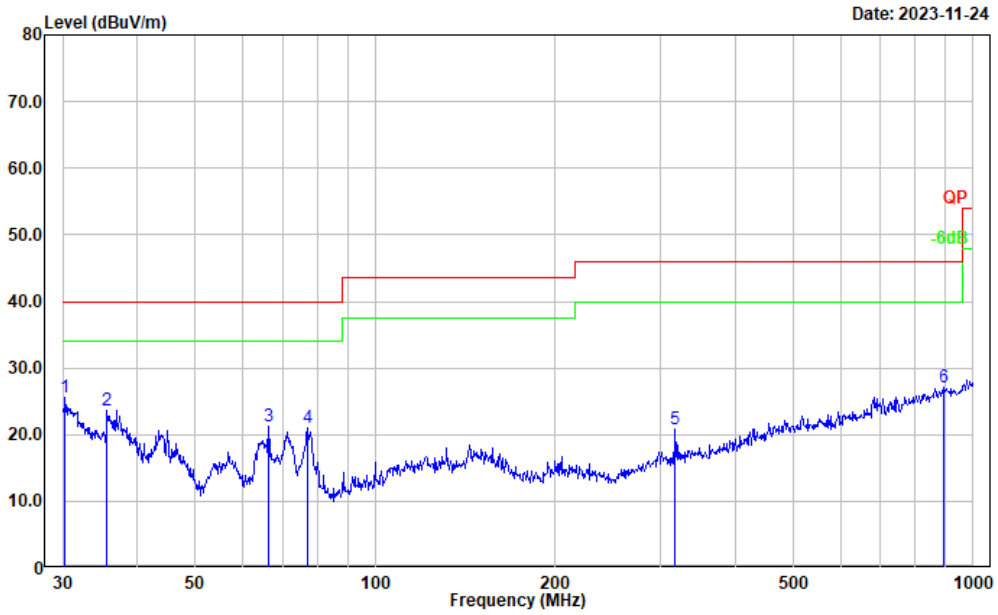
Middle Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(DSA-3PFM-05 BUS 060040) EDR Mode 8DPSK Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.071	29.64	-4.61	25.03	40.00	14.97	Peak
2	77.051	29.93	-17.17	12.76	40.00	27.24	Peak
3	110.182	29.71	-12.32	17.39	43.50	26.11	Peak
4	146.374	35.19	-11.88	23.31	43.50	20.19	Peak
5	321.061	32.05	-10.52	21.53	46.00	24.47	Peak
6	965.542	29.30	0.12	29.42	54.00	24.58	Peak

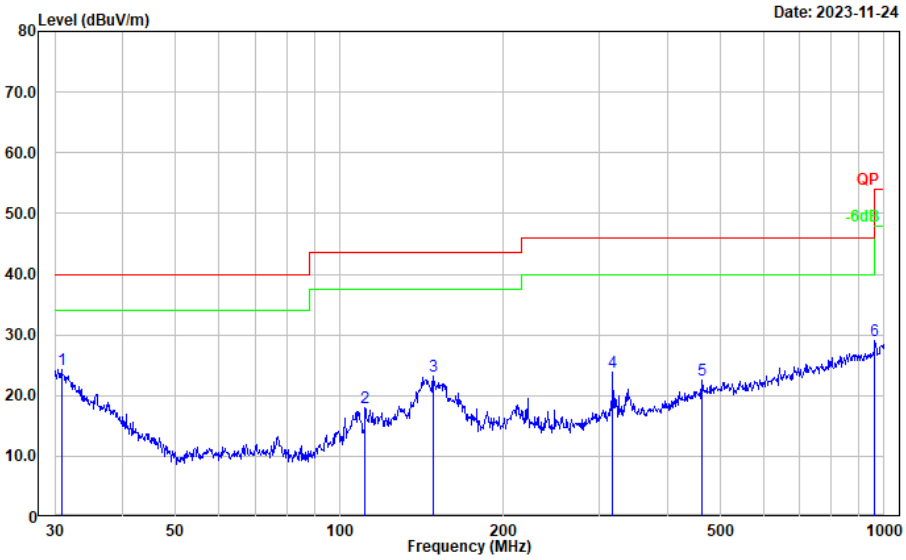
Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(DSA-3PFM-05 BUS 060040) EDR Mode 8DPSK Middel Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.317	29.55	-4.04	25.51	40.00	14.49	Peak
2	35.624	31.75	-8.10	23.65	40.00	16.35	Peak
3	66.266	38.15	-16.86	21.29	40.00	18.71	Peak
4	77.051	38.18	-17.17	21.01	40.00	18.99	Peak
5	317.701	31.46	-10.58	20.88	46.00	25.12	Peak
6	890.728	28.25	-1.06	27.19	46.00	18.81	Peak

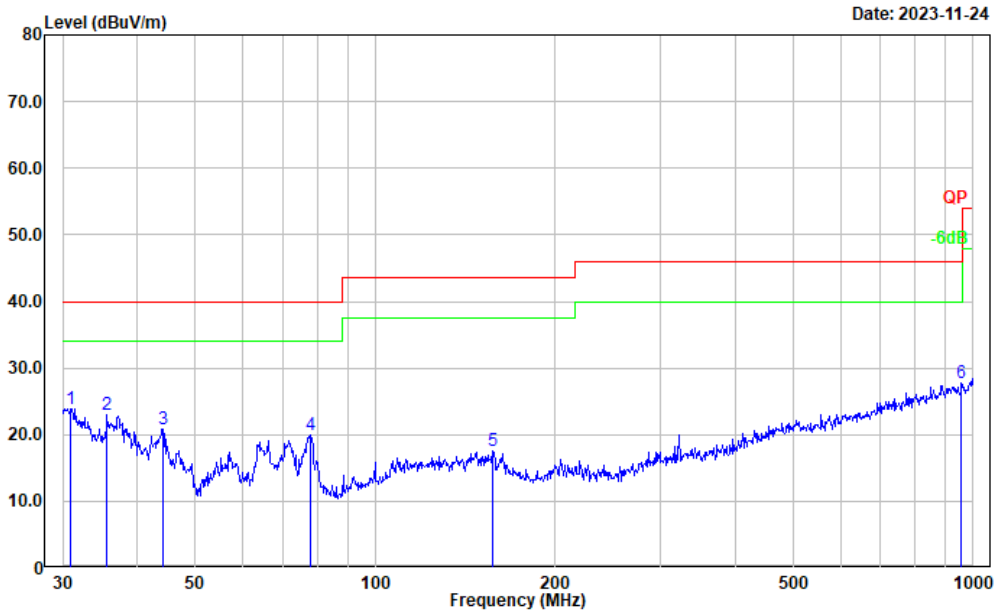
High Channel

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT(DSA-3PFM-05 BUS 060040) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.853	28.75	-4.45	24.30	40.00	15.70	Peak
2	111.347	30.19	-12.22	17.97	43.50	25.53	Peak
3	148.441	35.11	-11.90	23.21	43.50	20.29	Peak
4	317.701	34.38	-10.58	23.80	46.00	22.20	Peak
5	463.970	28.98	-6.51	22.47	46.00	23.53	Peak
6	962.162	29.03	0.04	29.07	54.00	24.93	Peak

Project No.: CR231061541-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT(DSA-3PFM-05 BUS 060040) EDR Mode 8DPSK High Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.853	28.28	-4.45	23.83	40.00	16.17	Peak
2	35.624	31.16	-8.10	23.06	40.00	16.94	Peak
3	44.120	34.49	-13.75	20.74	40.00	19.26	Peak
4	77.865	37.30	-17.27	20.03	40.00	19.97	Peak
5	157.007	29.44	-11.94	17.50	43.50	26.00	Peak
6	955.438	27.94	-0.15	27.79	46.00	18.21	Peak

2) 1-25GHz: (adapter VT05UUS06040**)**

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	30.26	PK	H	31.71	61.97	74.00	12.03
2390.000	17.25	AV	H	31.71	48.96	54.00	5.04
2390.000	30.38	PK	V	31.71	62.09	74.00	11.91
2390.000	16.37	AV	V	31.71	48.08	54.00	5.92
4804.000	45.68	PK	H	11.19	56.87	74.00	17.13
4804.000	32.04	AV	H	11.19	43.23	54.00	10.77
4804.000	44.80	PK	V	11.19	55.99	74.00	18.01
4804.000	31.16	AV	V	11.19	42.35	54.00	11.65
Middle Channel: 2441 MHz							
4882.000	45.86	PK	H	11.48	57.34	74.00	16.66
4882.000	32.34	AV	H	11.48	43.82	54.00	10.18
4882.000	44.98	PK	V	11.48	56.46	74.00	17.54
4882.000	31.46	AV	V	11.48	42.94	54.00	11.06
High Channel: 2480 MHz							
2483.500	36.02	PK	H	32.19	68.21	74.00	5.79
2483.500	18.44	AV	H	32.19	50.63	54.00	3.37
2483.500	35.14	PK	V	32.19	67.33	74.00	6.67
2483.500	17.56	AV	V	32.19	49.75	54.00	4.25
4960.000	46.91	PK	H	11.77	58.68	74.00	15.32
4960.000	33.39	AV	H	11.77	45.16	54.00	8.84
4960.000	46.03	PK	V	11.77	57.80	74.00	16.20
4960.000	32.51	AV	V	11.77	44.28	54.00	9.72

2EDR Mode (π/4-DQPSK):

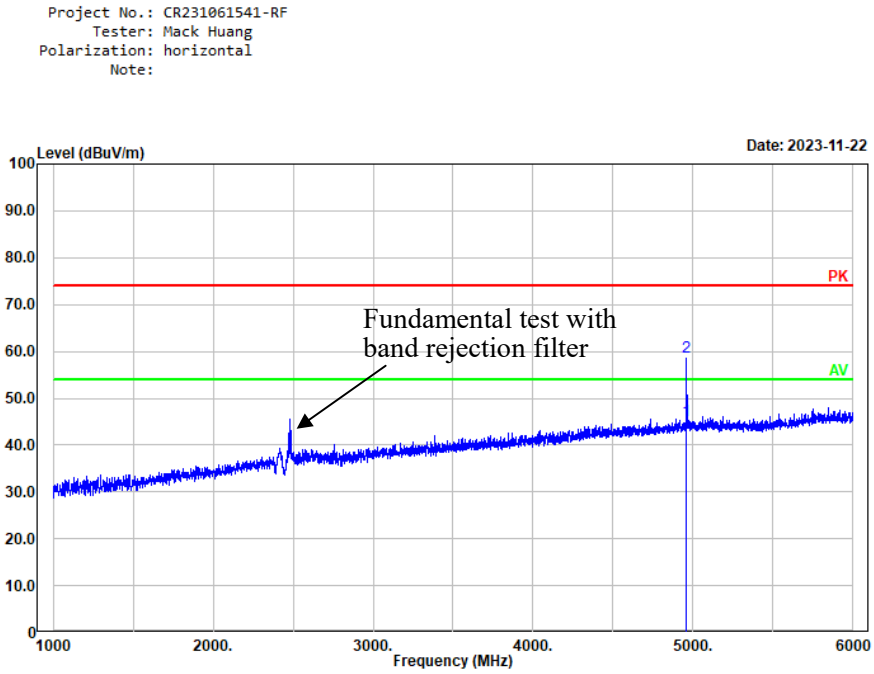
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	29.71	PK	H	31.71	61.42	74.00	12.58
2390.000	17.22	AV	H	31.71	48.93	54.00	5.07
2390.000	28.83	PK	V	31.71	60.54	74.00	13.46
2390.000	16.34	AV	V	31.71	48.05	54.00	5.95
4804.000	49.91	PK	H	11.19	61.10	74.00	12.90
4804.000	31.27	AV	H	11.19	42.46	54.00	11.54
4804.000	49.03	PK	V	11.19	60.22	74.00	13.78
4804.000	30.39	AV	V	11.19	41.58	54.00	12.42
Middle Channel: 2441 MHz							
4882.000	50.08	PK	H	11.48	61.56	74.00	12.44
4882.000	31.44	AV	H	11.48	42.92	54.00	11.08
4882.000	49.20	PK	V	11.48	60.68	74.00	13.32
4882.000	30.56	AV	V	11.48	42.04	54.00	11.96
High Channel: 2480 MHz							
2483.500	36.29	PK	H	32.19	68.48	74.00	5.52
2483.500	18.39	AV	H	32.19	50.58	54.00	3.42
2483.500	35.41	PK	V	32.19	67.60	74.00	6.40
2483.500	17.52	AV	V	32.19	49.71	54.00	4.29
4960.000	52.11	PK	H	11.77	63.88	74.00	10.12
4960.000	32.32	AV	H	11.77	44.09	54.00	9.91
4960.000	51.23	PK	V	11.77	63.00	74.00	11.00
4960.000	31.44	AV	V	11.77	43.21	54.00	10.79

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	29.79	PK	H	31.71	61.50	74.00	12.50
2390.000	17.19	AV	H	31.71	48.90	54.00	5.10
2390.000	28.91	PK	V	31.71	60.62	74.00	13.38
2390.000	16.31	AV	V	31.71	48.02	54.00	5.98
4804.000	48.97	PK	H	11.19	60.16	74.00	13.84
4804.000	32.22	AV	H	11.19	43.41	54.00	10.59
4804.000	48.09	PK	V	11.19	59.28	74.00	14.72
4804.000	31.34	AV	V	11.19	42.53	54.00	11.47
Middle Channel: 2441 MHz							
4882.000	44.91	PK	H	11.48	56.39	74.00	17.61
4882.000	31.12	AV	H	11.48	42.60	54.00	11.40
4882.000	44.03	PK	V	11.48	55.51	74.00	18.49
4882.000	30.24	AV	V	11.48	41.72	54.00	12.28
High Channel: 2480 MHz							
2483.500	31.86	PK	H	32.19	64.05	74.00	9.95
2483.500	16.93	AV	H	32.19	49.12	54.00	4.88
2483.500	30.98	PK	V	32.19	63.17	74.00	10.83
2483.500	16.05	AV	V	32.19	48.24	54.00	5.76
4960.000	44.91	PK	H	11.77	56.68	74.00	17.32
4960.000	31.12	AV	H	11.77	42.89	54.00	11.11
4960.000	44.03	PK	V	11.77	55.80	74.00	18.20
4960.000	30.24	AV	V	11.77	42.01	54.00	11.99

Listed with the worst harmonic margin test plot (BDR High channel)

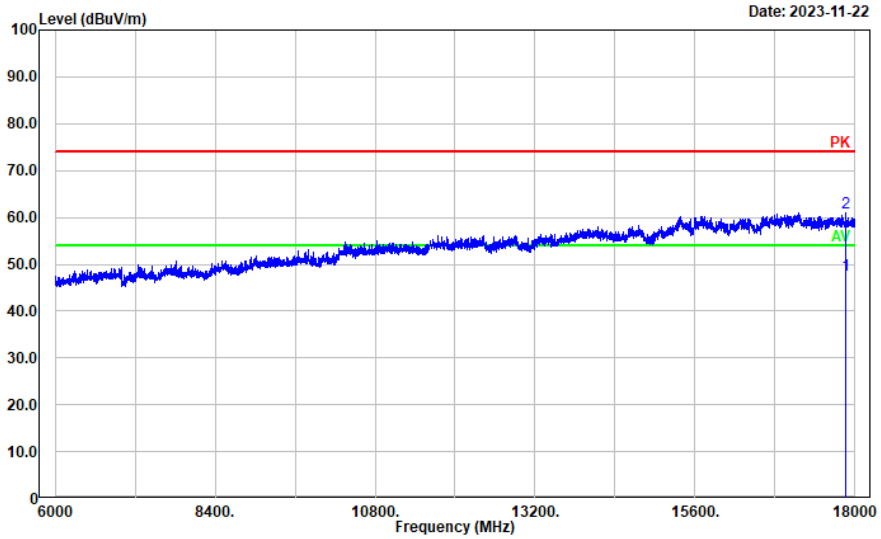
Horizontal	
1-6GHz	



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.000	33.39	11.77	45.16	54.00	8.84	Average
2	4960.000	46.91	11.77	58.68	74.00	15.32	Peak

Horizontal	
6-18GHz	

Project No.: CR231061541-RF
Tester: Mack Huang
Polarization: horizontal
Note:

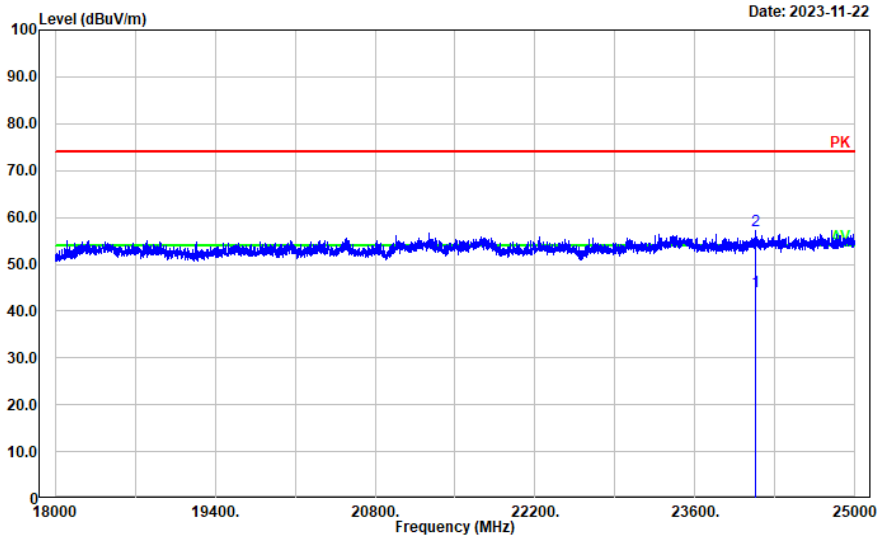


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	17858.370	15.88	31.95	47.83	54.00	6.17	Average
2	17858.370	29.09	31.95	61.04	74.00	12.96	Peak

Horizontal

18-25GHz

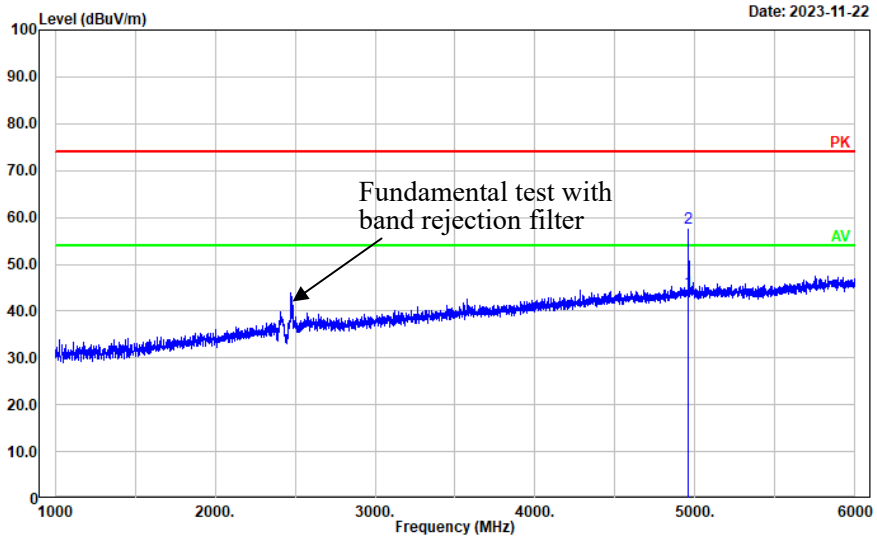
Project No.: CR231061541-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	24131.830	39.41	4.87	44.28	54.00	9.72	Average
2	24131.830	52.23	4.87	57.10	74.00	16.90	Peak

Vertical	
1-6GHz	

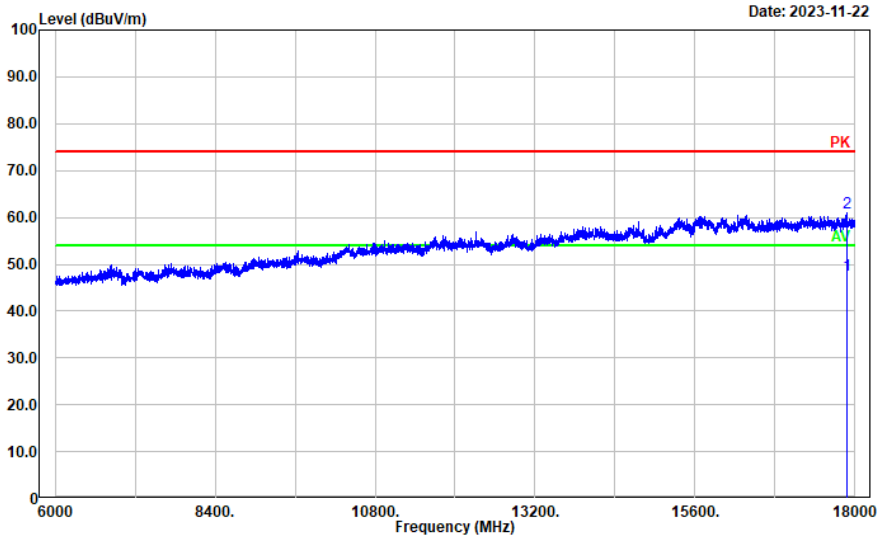
Project No.: CR231061541-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4960.000	32.51	11.77	44.28	54.00	9.72	Average
2	4960.000	46.03	11.77	57.80	74.00	16.20	Peak

Vertical	
6-18GHz	

Project No.: CR231061541-RF
Tester: Mack Huang
Polarization: vertical
Note:

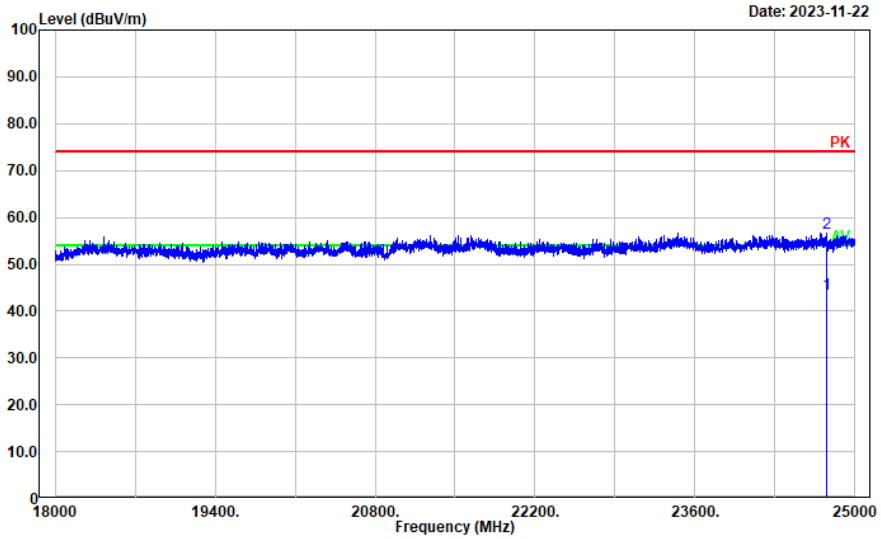


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	17877.580	15.63	32.06	47.69	54.00	6.31	Average
2	17877.580	28.89	32.06	60.95	74.00	13.05	Peak

Vertical

18-25GHz

Project No.: CR231061541-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	24746.550	38.16	5.41	43.57	54.00	10.43	Average
2	24746.550	51.15	5.41	56.56	74.00	17.44	Peak

4.3 20 dB Emission Bandwidth

Serial Number:	2CIZ-11	Test Date:	2023/11/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	N/A

Environmental Conditions:

Temperature: (℃)	25.5	Relative Humidity: (%)	42	ATM Pressure: (kPa)	101

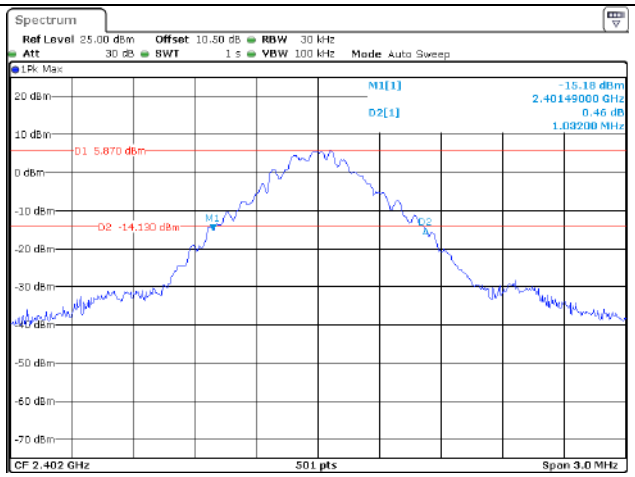
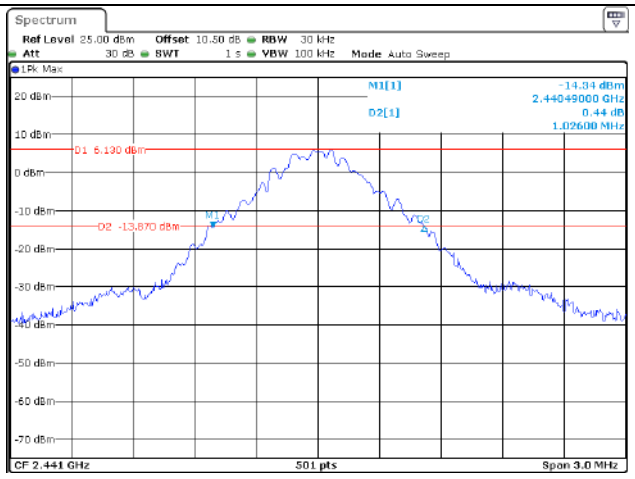
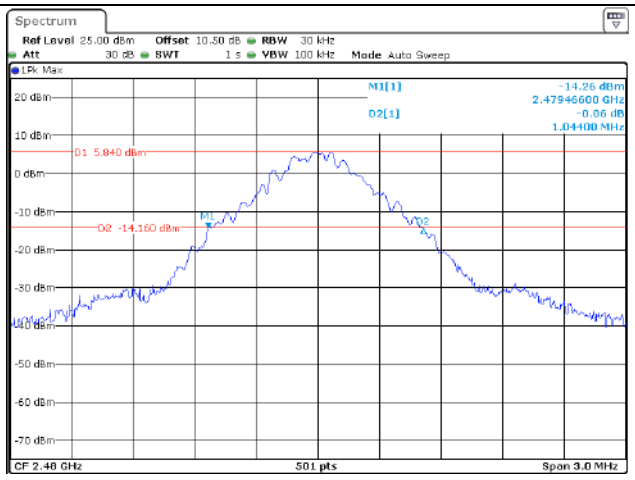
Test Equipment List and Details:

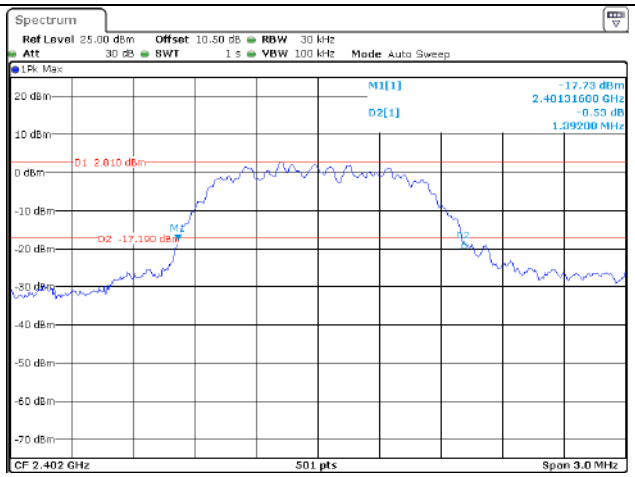
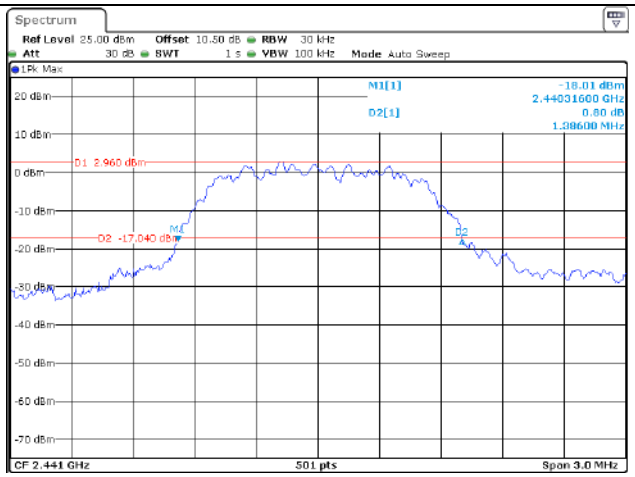
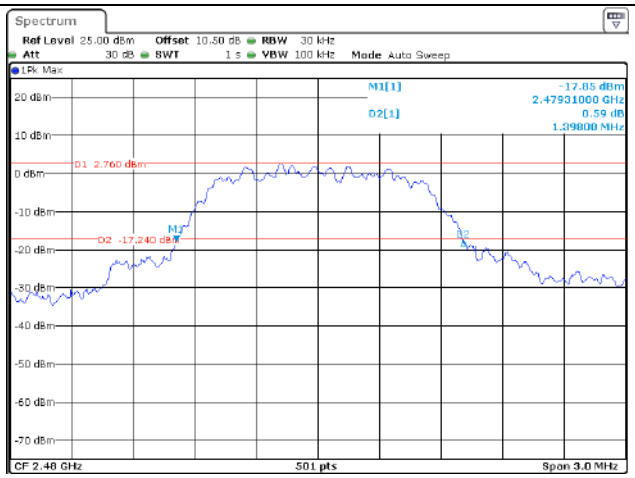
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

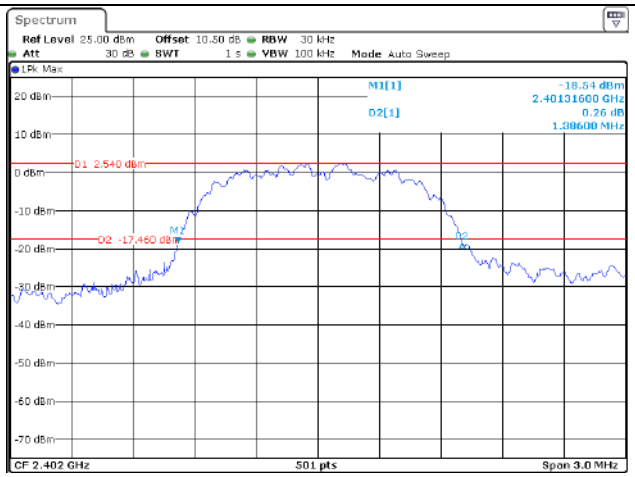
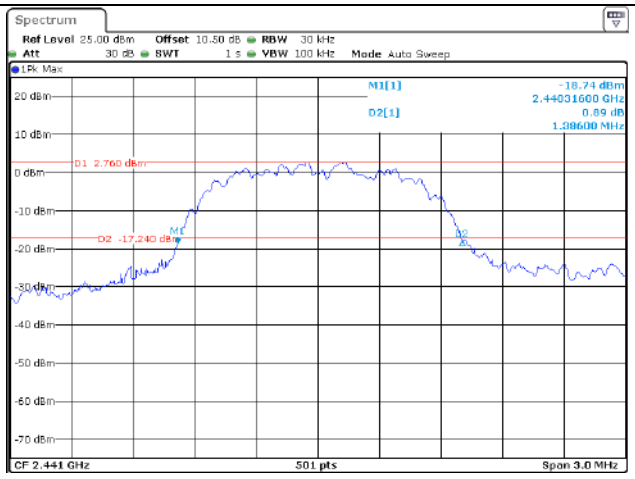
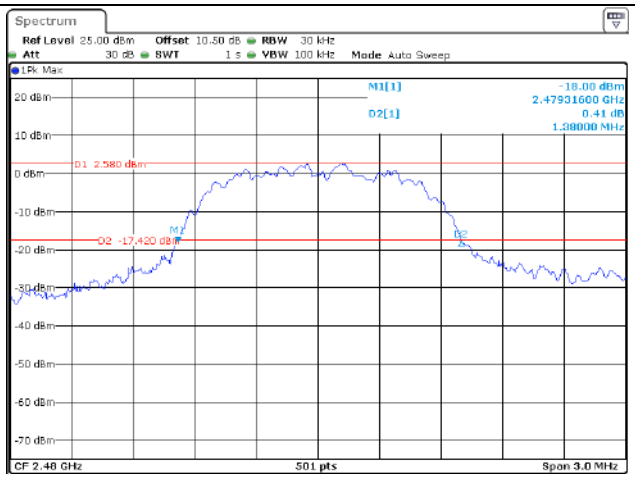
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Lowest	2402	1.032
	Middle	2441	1.026
	Highest	2480	1.044
EDR Mode (π/4-DQPSK)	Lowest	2402	1.392
	Middle	2441	1.386
	Highest	2480	1.398
EDR Mode (8DPSK)	Lowest	2402	1.386
	Middle	2441	1.386
	Highest	2480	1.380

BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (8DPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

4.4 Channel Separation

Serial Number:	2CIZ-11	Test Date:	2023/11/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	25	Relative Humidity: (%)	44	ATM Pressure: (kPa)	100.8

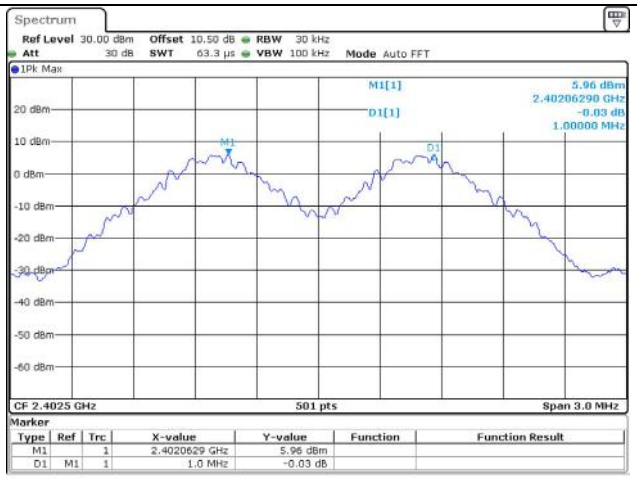
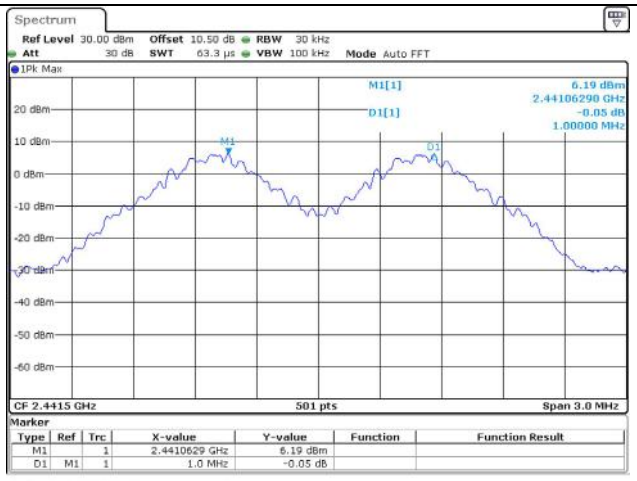
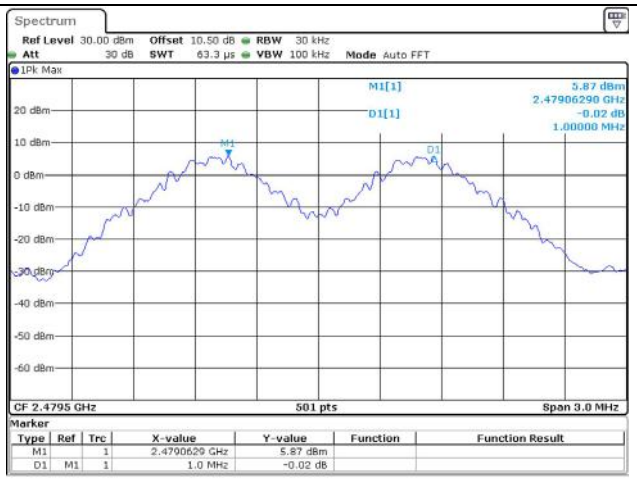
Test Equipment List and Details:

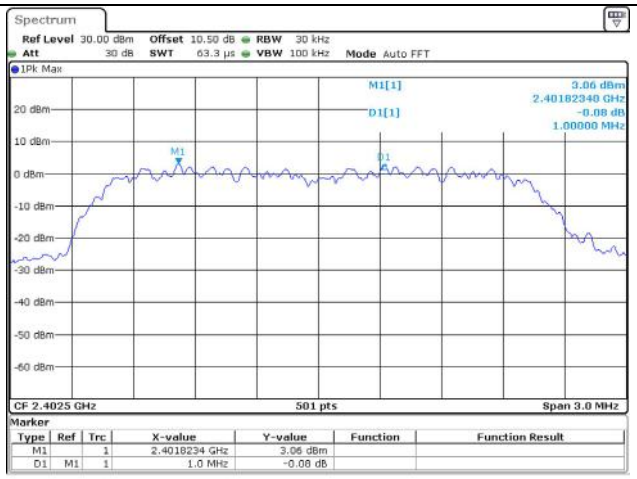
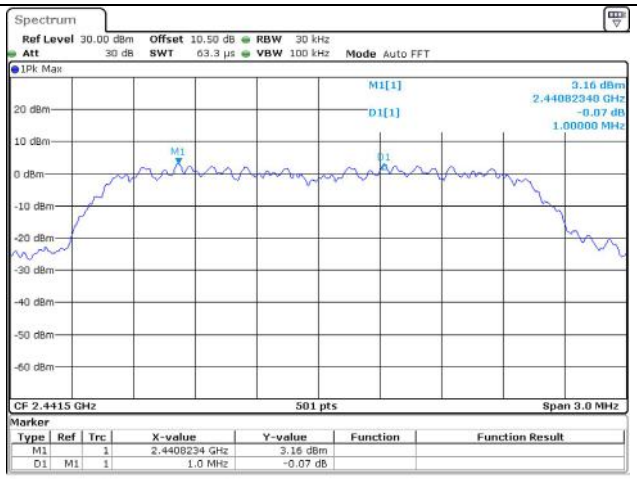
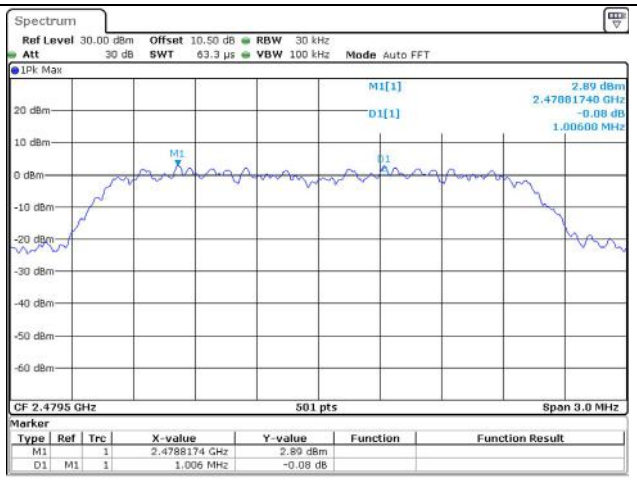
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

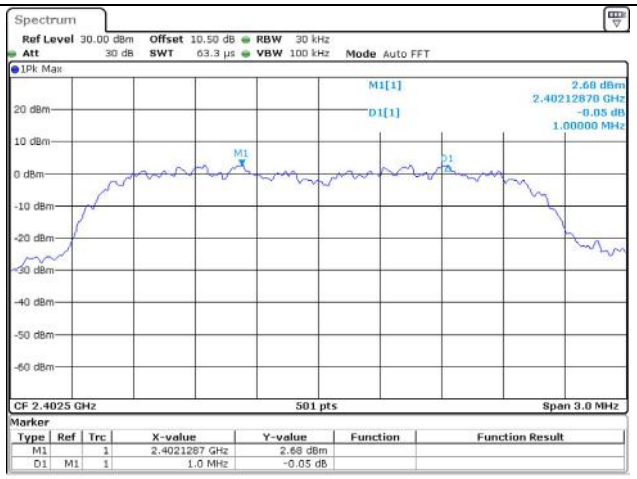
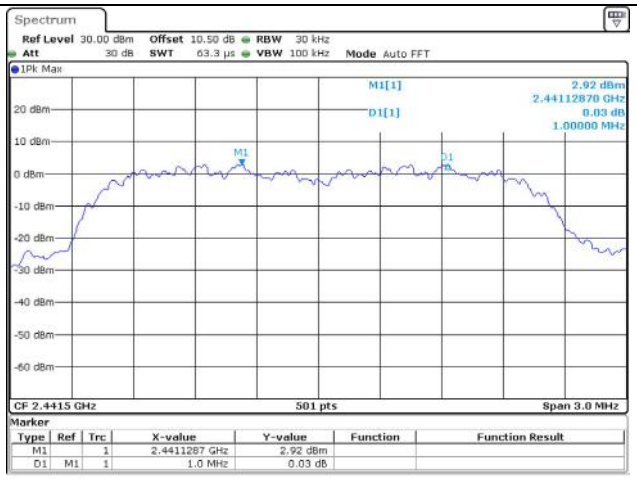
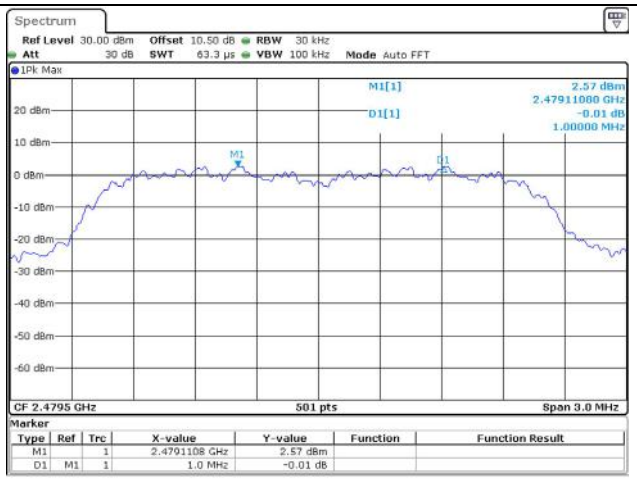
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
BDR Mode (GFSK)	2402	1.000	0.688
	2441	1.000	0.684
	2480	1.000	0.696
EDR Mode (π/4-DQPSK)	2402	1.000	0.928
	2441	1.000	0.924
	2480	1.006	0.932
EDR Mode (8DPSK)	2402	1.000	0.924
	2441	1.000	0.924
	2480	1.000	0.920

BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (8DPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

4.5 Number Of Hopping Frequency

Serial Number:	2CIZ-11	Test Date:	2023/11/17~2023/11/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	25~25.5	Relative Humidity: (%)	42~44	ATM Pressure: (kPa)	100.8~101

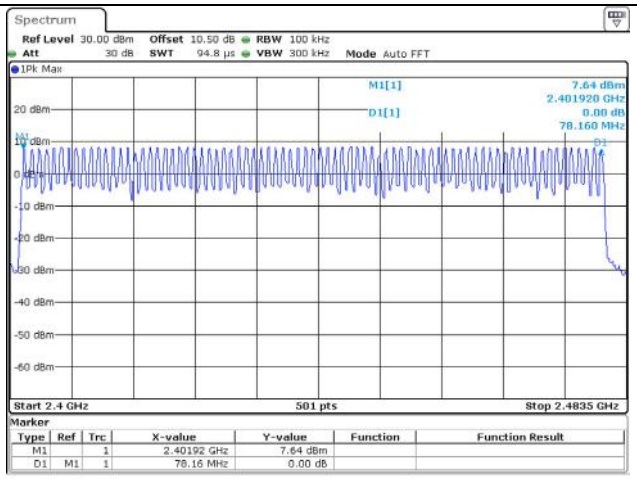
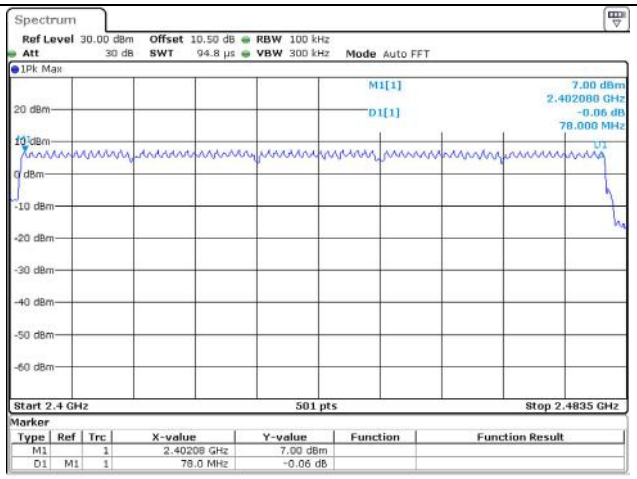
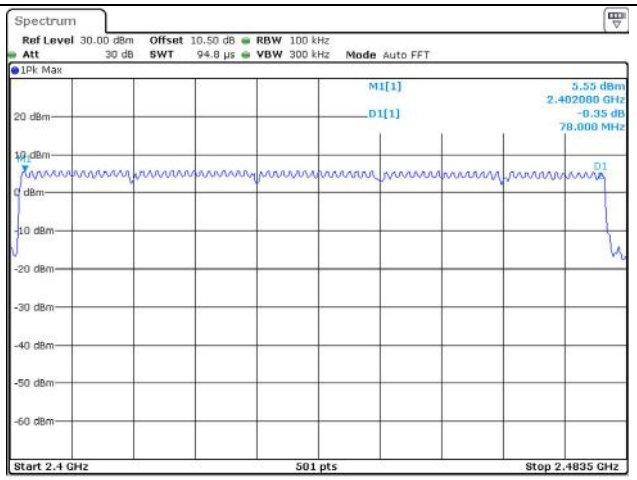
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
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).*

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

Number of Hopping Channel	
BDR Mode (GFSK)	
EDR Mode (π/4-DQPSK)	
EDR Mode (8DPSK)	

4.6 Time Of Occupancy(Dwell Time)

Serial Number:	2CIZ-11	Test Date:	2023/11/17~2023/11/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	25~25.5	Relative Humidity: (%)	42~44	ATM Pressure: (kPa)	100.8~101

Test Equipment List and Details:

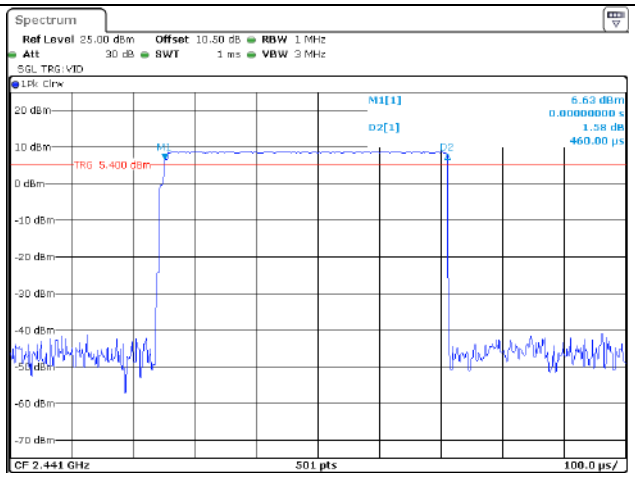
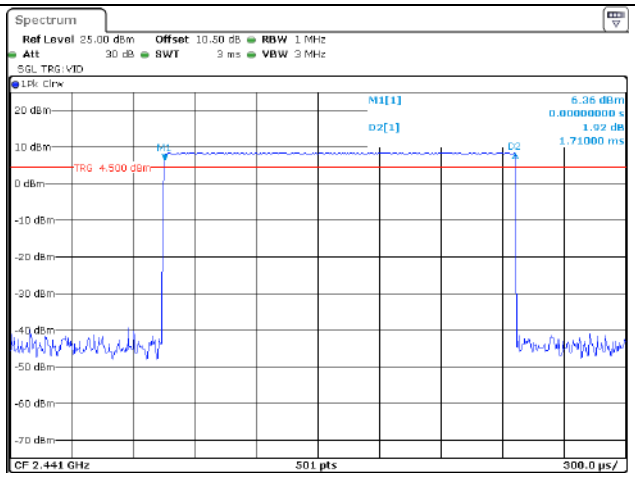
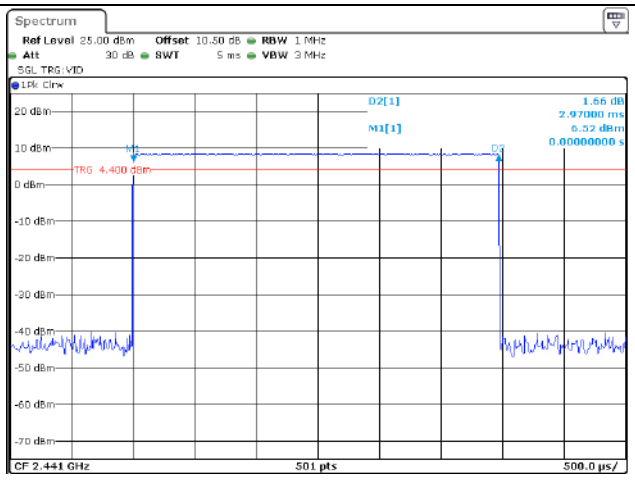
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

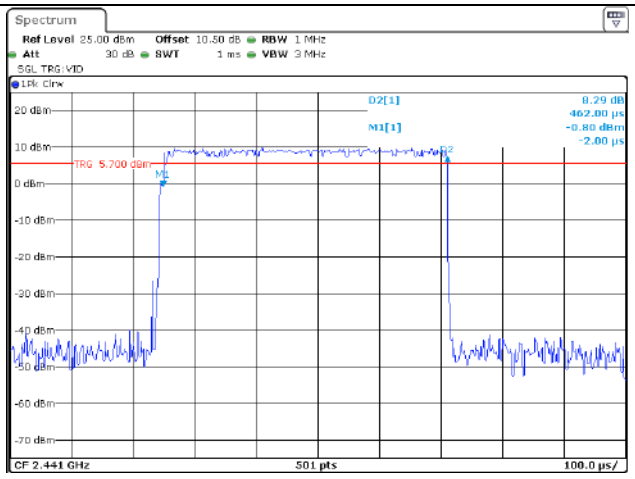
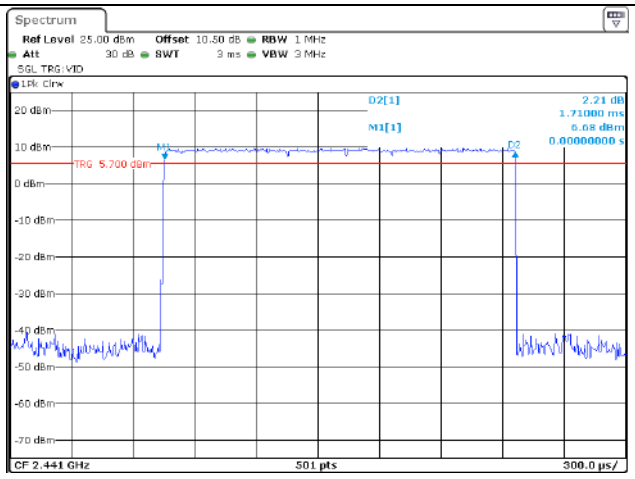
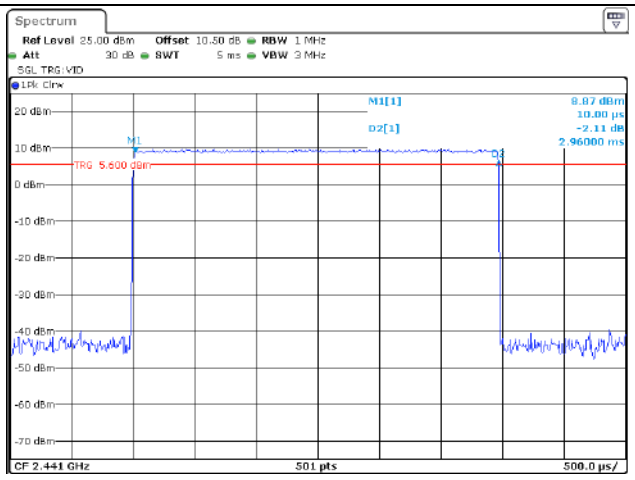
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

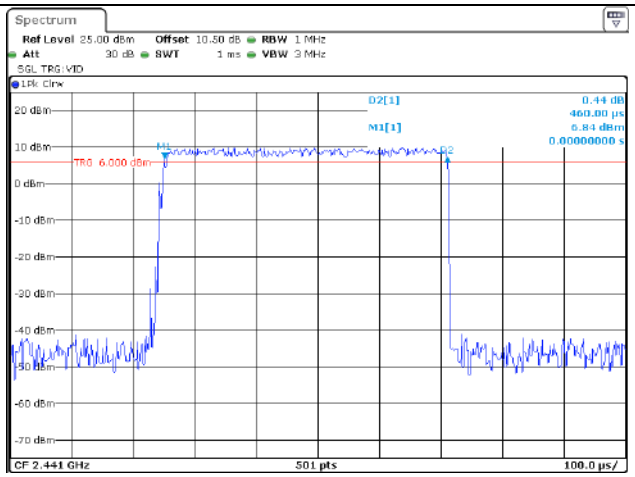
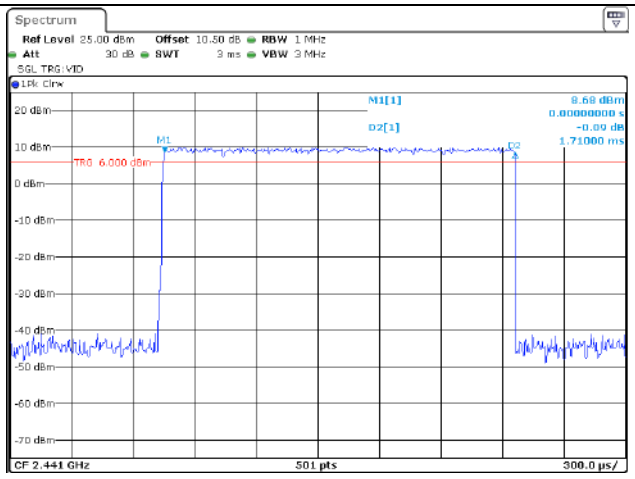
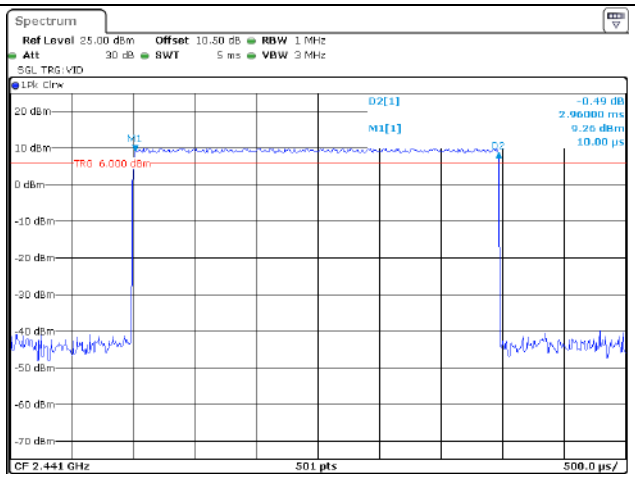
Test Data:

Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.460	0.147	0.400
	DH3	2441	1.710	0.274	0.400
	DH5	2441	2.970	0.317	0.400
EDR Mode (π/4-DQPSK)	2DH1	2441	0.462	0.148	0.400
	2DH3	2441	1.710	0.274	0.400
	2DH5	2441	2.960	0.316	0.400
EDR Mode (8DPSK)	3DH1	2441	0.460	0.147	0.400
	3DH3	2441	1.710	0.274	0.400
	3DH5	2441	2.960	0.316	0.400

Note:
DH1:Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s
DH3:Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s
DH5:Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s

BDR Mode (GFSK)	
DH1:	
DH3:	
DH5:	

EDR Mode (π/4-DQPSK)	
2DH1:	
2DH3:	
2DH5:	

EDR Mode (8DPSK)	
3DH1:	
3DH3:	
3DH5:	

4.7 Maximum Conducted Output Power

Serial Number:	2CIZ-11	Test Date:	2023/11/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.5	Relative Humidity: (%)	42	ATM Pressure: (kPa)	101

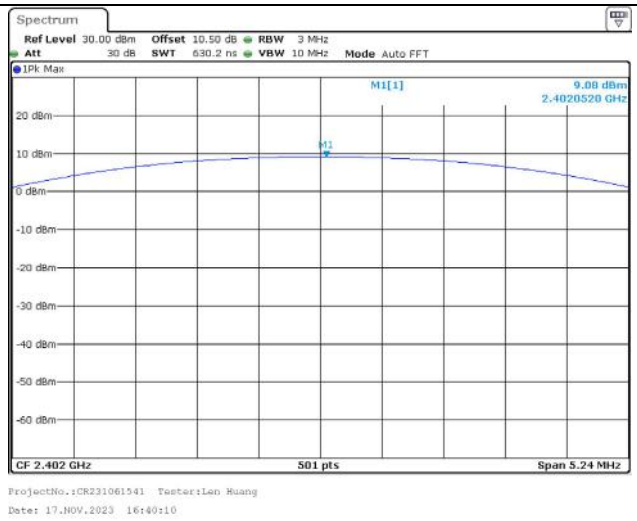
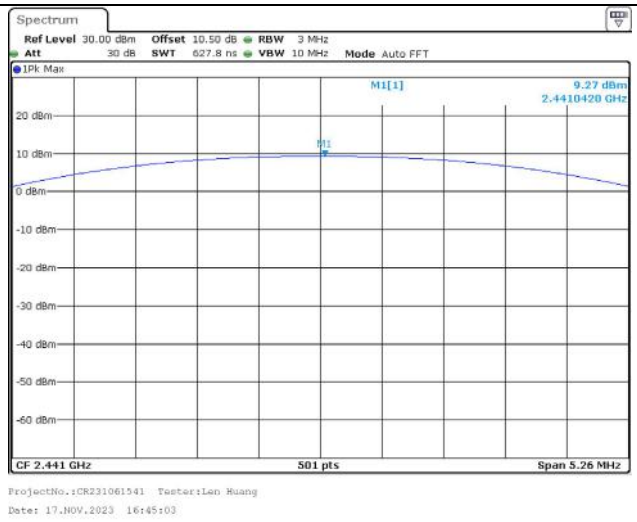
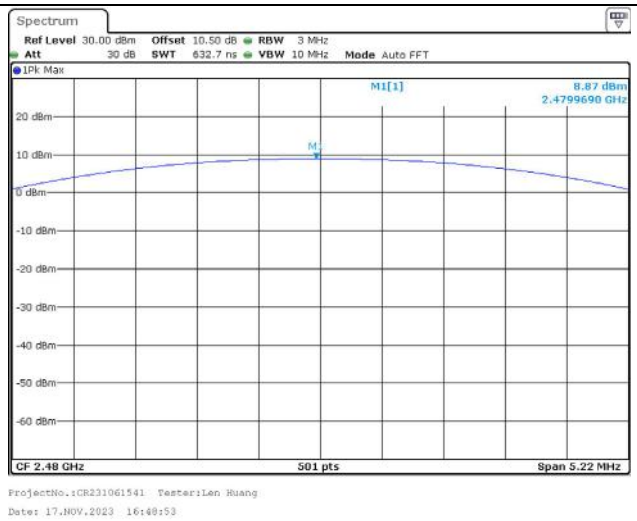
Test Equipment List and Details:

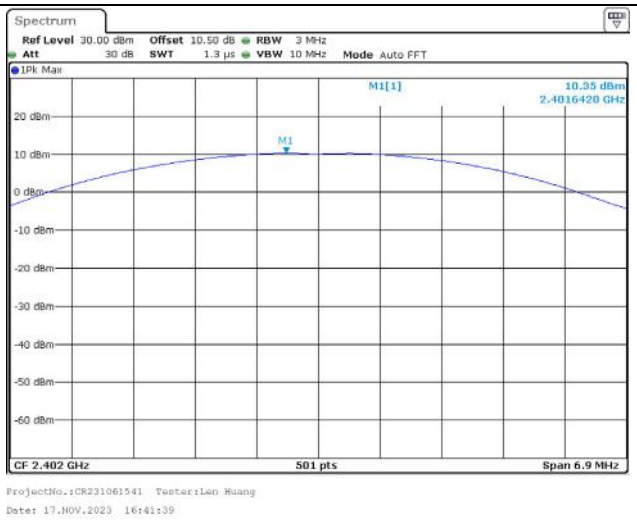
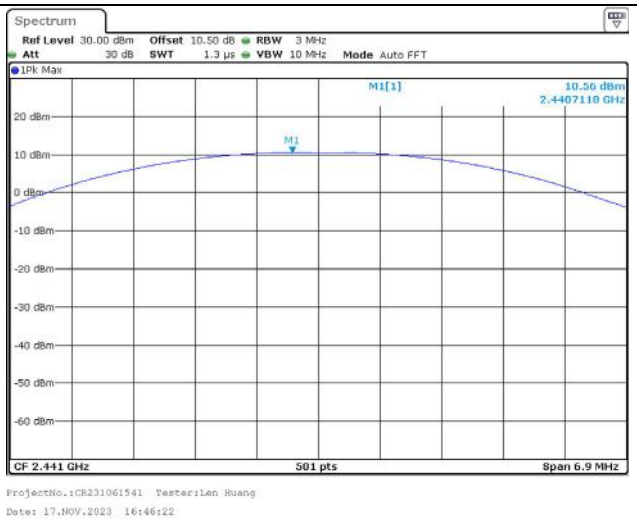
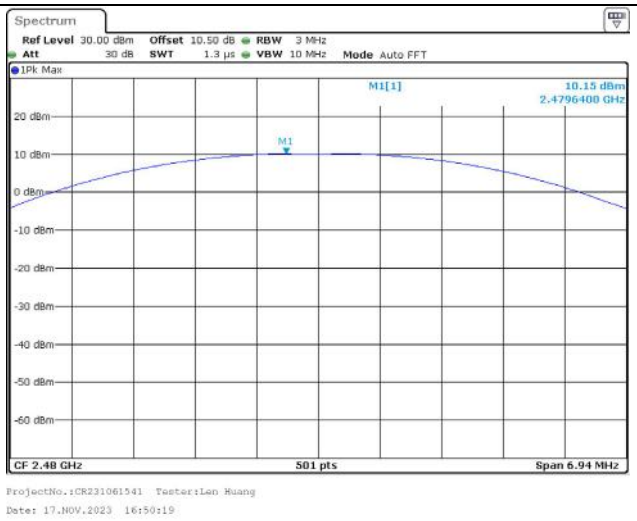
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

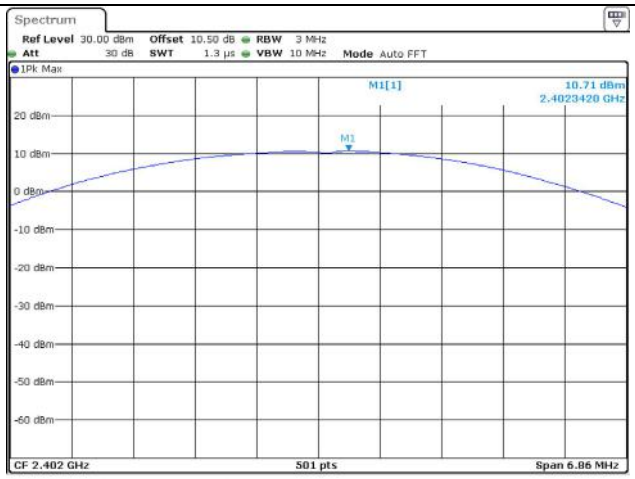
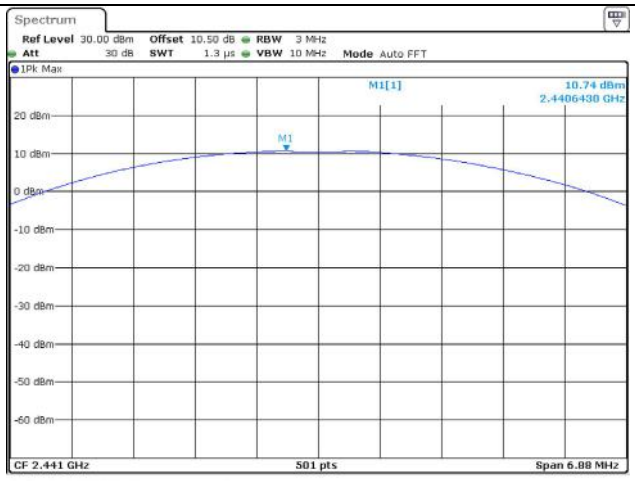
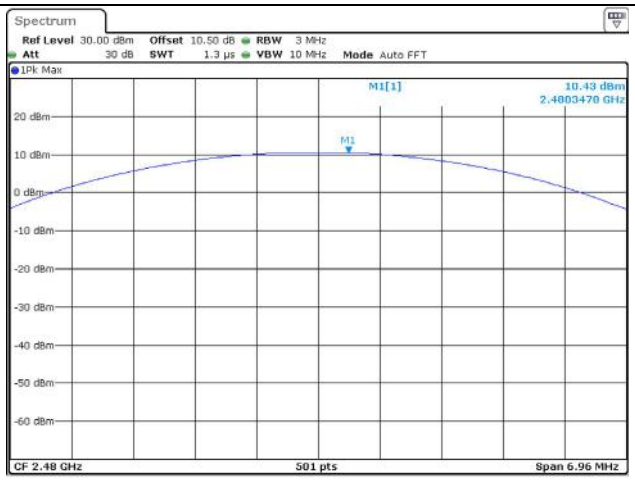
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	9.08	21
	2441	9.27	21
	2480	8.87	21
EDR Mode (π/4-DQPSK)	2402	10.35	21
	2441	10.56	21
	2480	10.15	21
EDR Mode (8DPSK)	2402	10.71	21
	2441	10.74	21
	2480	10.43	21

BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (8DPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

4.8 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2CIZ-11	Test Date:	2023/11/17~2023/12/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang, Ken Tang	Test Result:	PASS

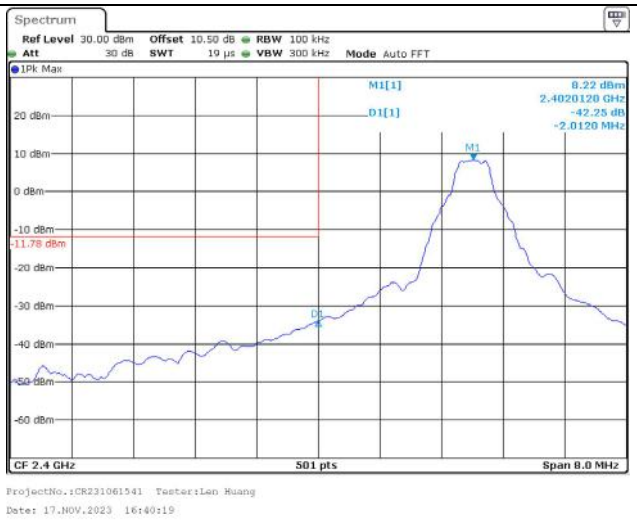
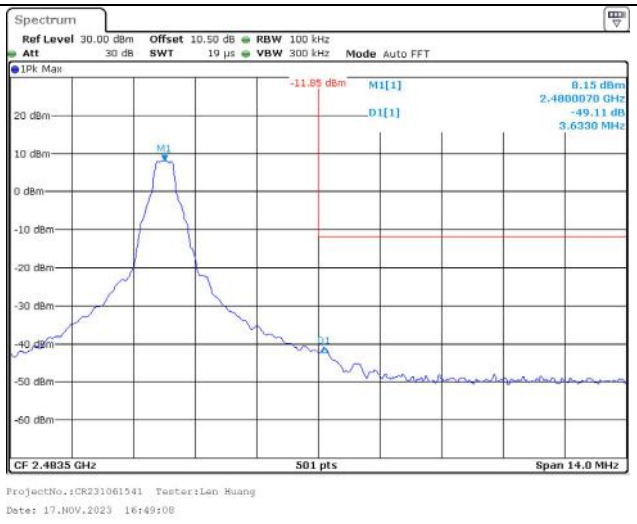
Environmental Conditions:					
Temperature: (℃)	25.5~26	Relative Humidity: (%)	42~56	ATM Pressure: (kPa)	101

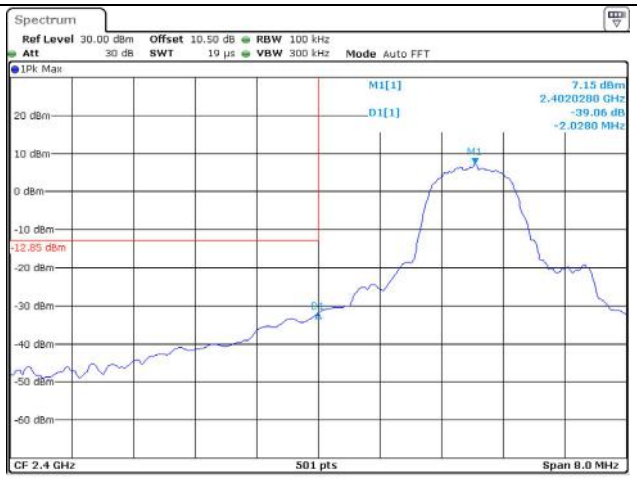
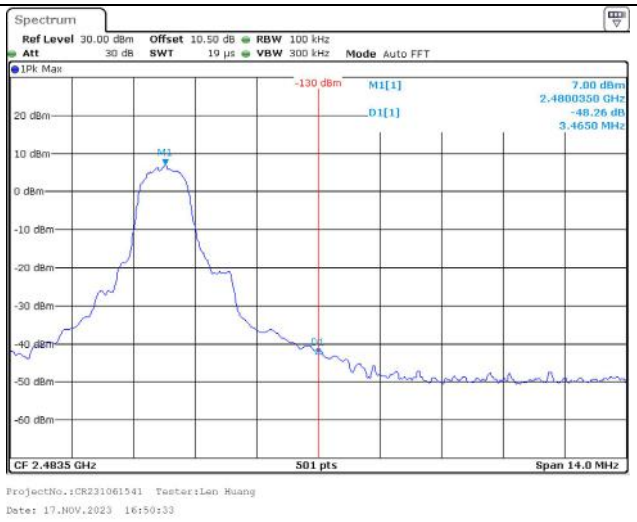
Test Equipment List and Details:

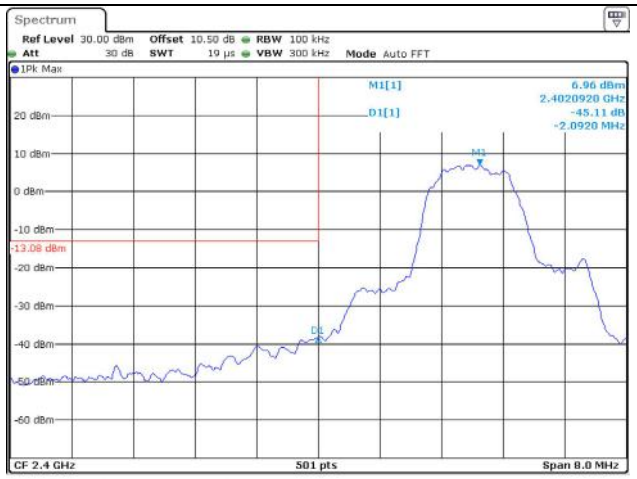
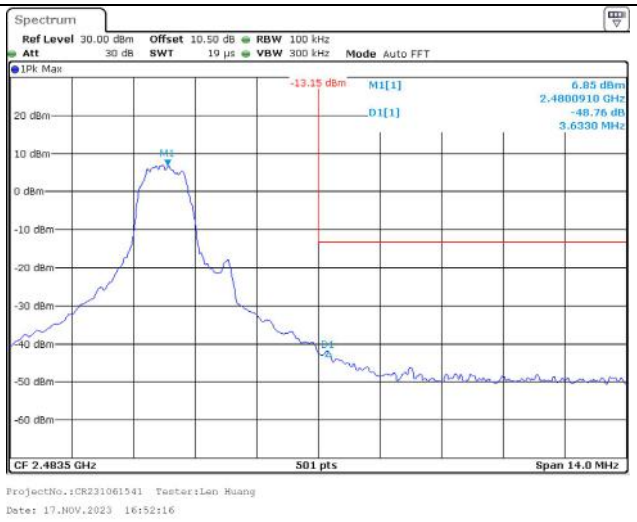
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

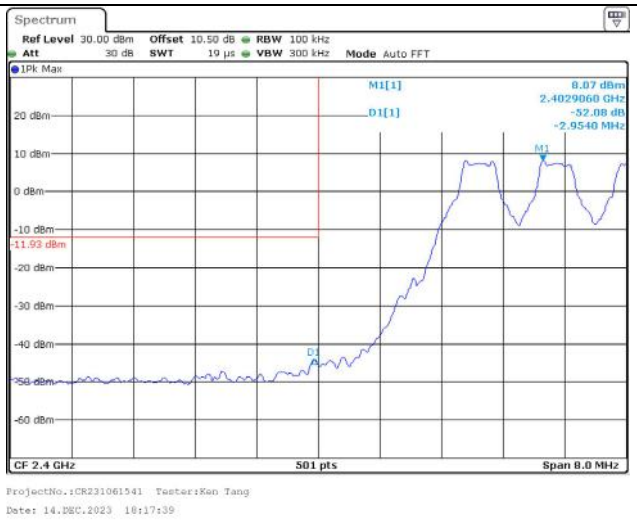
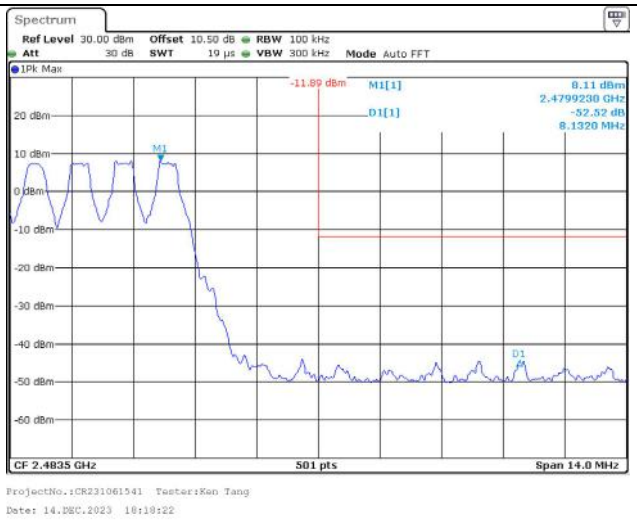
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

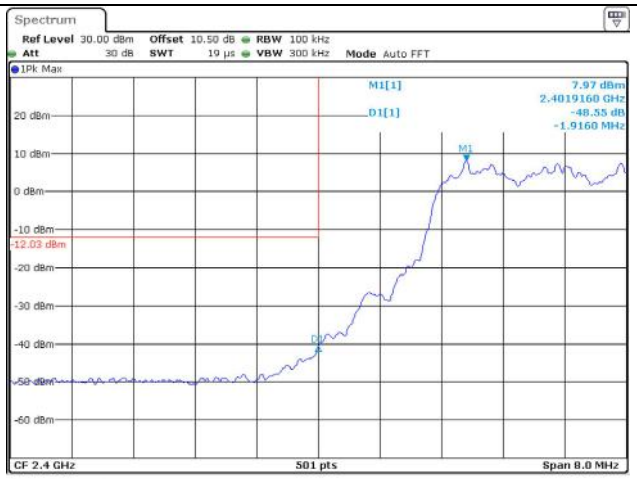
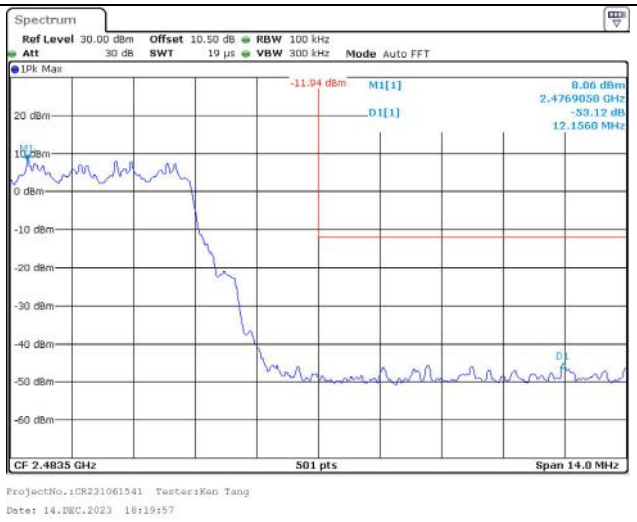
Test Data:

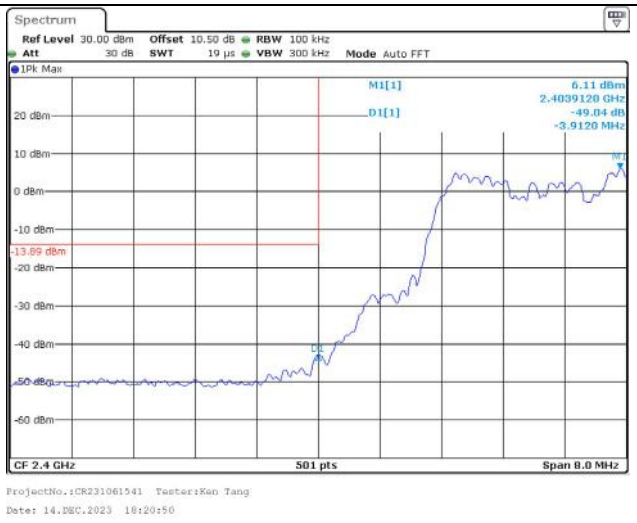
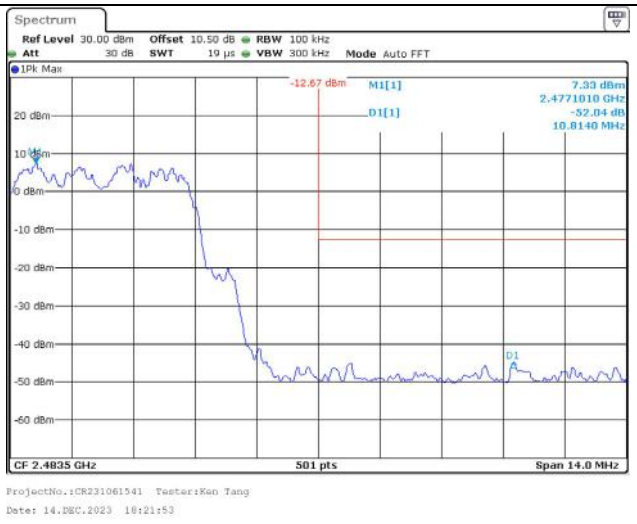
Band Edge, Single Channel	
BDR Mode (GFSK), Left Side	
BDR Mode (GFSK), Right Side	

Band Edge, Single Channel	
EDR Mode (π/4-DQPSK), Left Side	
EDR Mode (π/4-DQPSK), Right Side	

Band Edge, Single Channel	
EDR Mode (8DPSK), Left Side	
EDR Mode (8DPSK), Right Side	

Band Edge, Hopping Channel	
BDR Mode (GFSK), Left Side	
BDR Mode (GFSK), Right Side	

Band Edge, Hopping Channel	
EDR Mode (π/4-DQPSK), Left Side	
EDR Mode (π/4-DQPSK), Right Side	

Band Edge, Hopping Channel	
EDR Mode (8DPSK), Left Side	
EDR Mode (8DPSK), Right Side	

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

5.2 Measurement Result

Mode	Frequency (MHz)	λ/2π (mm)	Distance (mm)	Exemption ERP		Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP		MPE-Based Exemption
				(mW)	(dBm)			(dBm)	(mW)	
DECT	1920-1930	24.87	200	768	28.85	20.7	0	18.55	71.61	Compliant
BT	2402-2480	19.89	200	768	28.85	11.0	0	8.85	7.67	Compliant

Note:
The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.
The DECT and BT cannot transmitting at same time

Result: The device compliant the MPE-Based Exemption at 20cm distances.

6. EUT PHOTOGRAPHS

Please refer to the attachment CR231061541-EXP EUT EXTERNAL PHOTOGRAPHS and CR231061541-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061541-00B-TSP TEST SETUP PHOTOGRAPHS.

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