



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: INFINIX MOBILITY LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
SHAN MEI STREET FOTAN NT, Hong Kong

FCC ID: 2AIZN-YY5-X6850

Product Name: Mobile 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: CR231061288-00B

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Test Facility

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

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

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.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231061288-00B	Original Report	2023/12/8

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Mobile Phone
Trade Name:	Infinix
EUT Model:	X6850
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	Ant0: 2.1 dBm Ant1: 0.53 dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	DC 3.91V from battery or DC 5V/5-10V/11V/4-20V from adapter
Serial Number:	CE&RE: 2CGM-2(Normal), 2CGM-6(Lighting) RF: 2CGM-1
EUT Received Date:	2023/10/24
EUT Received Status:	Good

Note: the EUT has two version, a normal version and a lighting version, the two version was electrical identical.

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	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)
ANT 0	Integral	50	2.4~2.5GHz	-4.12
ANT 1	Integral	50	2.4~2.5GHz	-3.37

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	S/N	Model	Parameters
Adapter 1	KX070129253A13	U700XSA	Input: AC 100-240V~50/60Hz, 2.0A Output: DC 5.0V, 3.0A, 15.0W or 5.0-10.0V, 7.0A MAX or 11.0V, 6.4A Max or 4.0-20.0V, 3.5A, 70.0W MAX
Adapter 2	CY07019513916	U700XSA	Input: AC 100-240V~50/60Hz, 2.0A Output: DC 5.0V, 3.0A, 15.0W or 5.0-10.0V, 7.0A MAX or 11.0V, 6.4A Max or 4.0-20.0V, 3.5A, 70.0W MAX

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.		
	Note: The EUT has two versions, the two version was electrical identical, the normal version was selected to full test. The EUT supply with two adapters, the normal version was tested with both the two adapters for AC line conducted and radiated emission below 1GHz. For the lighting version was test with the worst case adapter according to the normal version test data for AC line conducted and two adapters for radiated emission below 1GHz. The two version test data not show significantly difference and both of them can compliance with the limit. For above 1GHz, the adapter 1 was used to test.		
Equipment Modifications:	No		
EUT Exercise Software:	Engineer Mode		
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	6	6	6
$\pi/4$ -DQPSK	6	6	6
8DPSK	6	6	6
Note: According to the manufacturer, for BDR/EDR, the EUT has two antennas, which will be switched through SW circuit according to environmental conditions during actual operation. Only one antenna is working at any moment in time.			

1.2.2 Support Equipment List and Details

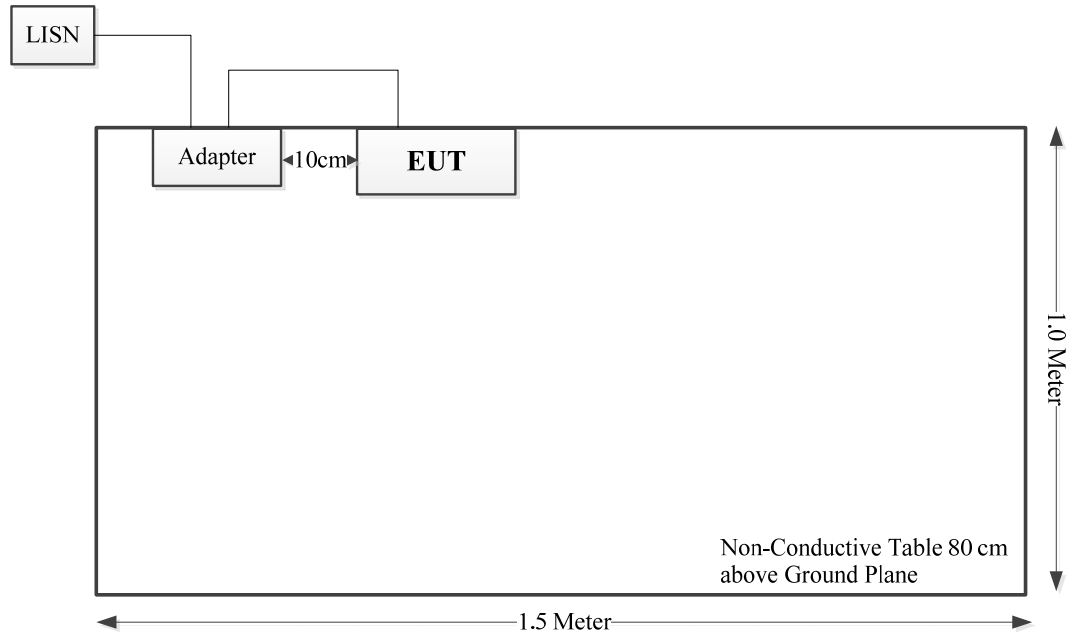
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

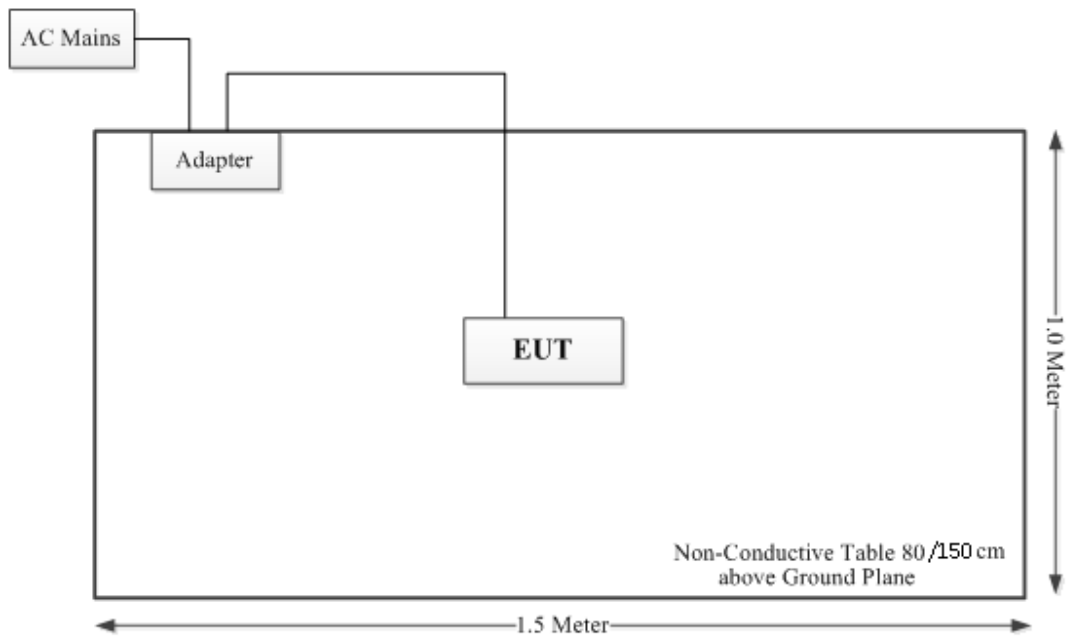
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.0	Adapter	EUT

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~30MHz: 4.12dB,30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±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) & §1.1310	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 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

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

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

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

The spacing between the peripherals was 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

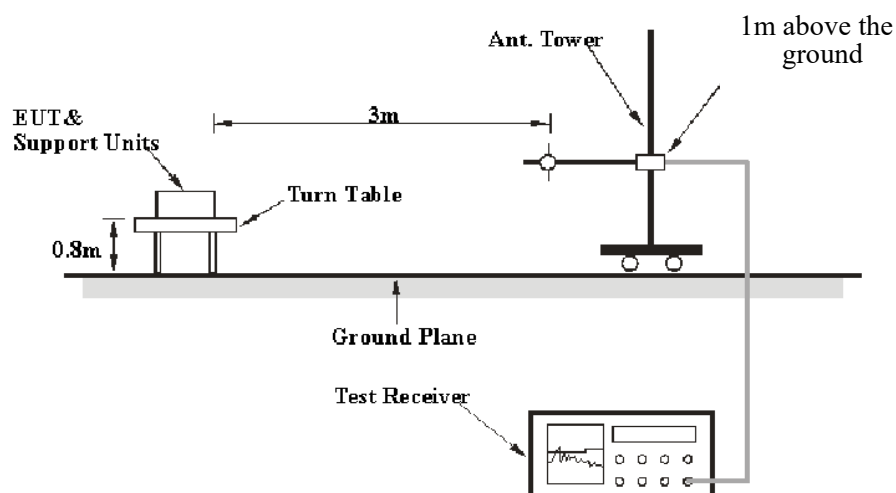
3.2.1 Applicable Standard

FCC §15.247 (d);

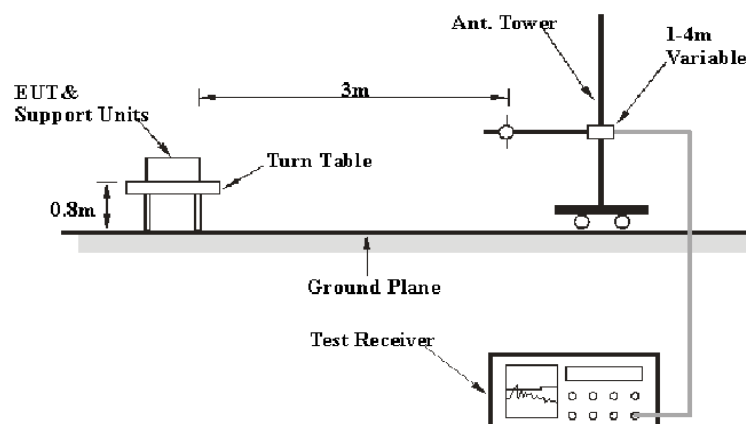
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

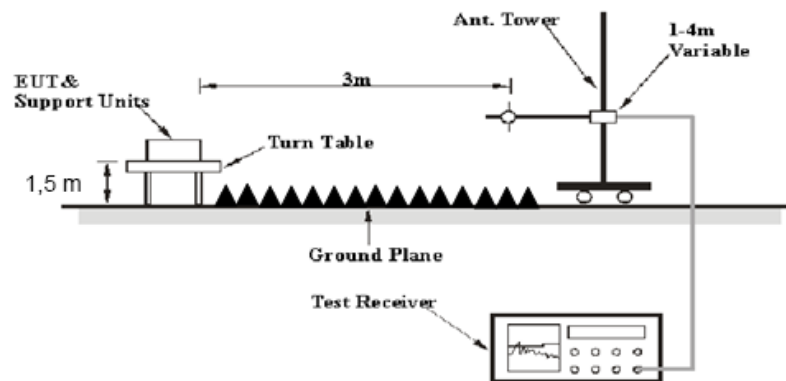
3.2.2 EUT Setup

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:

$$\text{Result} = \text{Reading} + \text{Factor}$$

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Result}$$

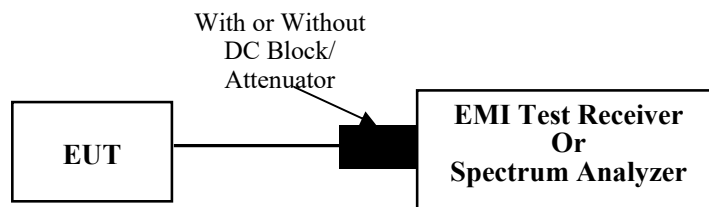
3.3 20 dB Emission Bandwidth

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

- 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.
- 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.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2
- Steps a) through c) might require iteration to adjust within the specified tolerances.
- 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.
- Set detection mode to peak and trace mode to max hold.
- 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).
- Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

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

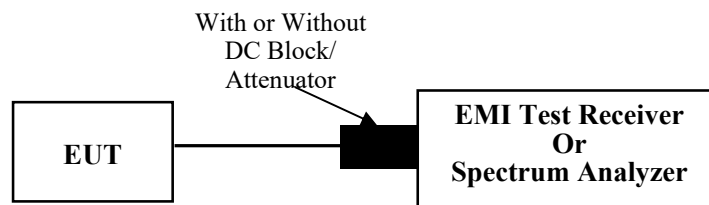
3.4 Channel Separation

3.4.1 Applicable Standard

FCC §15.247 (a)(1)

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

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.2

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

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

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

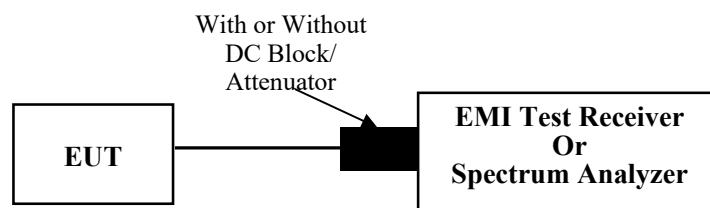
3.5 Number Of Hopping Frequency

3.5.1 Applicable Standard

FCC §15.247 (a)(1)(iii)

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

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.3

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

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

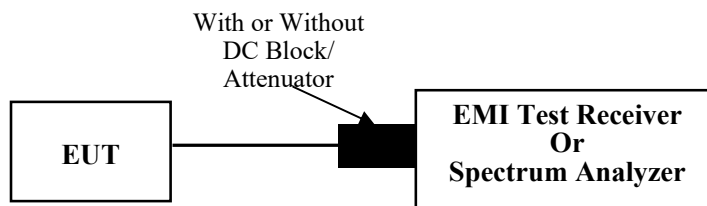
It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

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

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

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

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

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

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

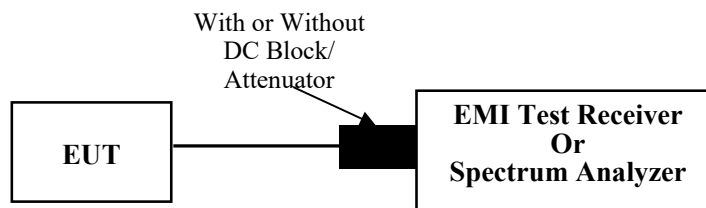
3.7 Maximum Conducted Output Power

3.7.1 Applicable Standard

FCC §15.247 (b)(1)

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

3.7.2 EUT Setup



3.7.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.5

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

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

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

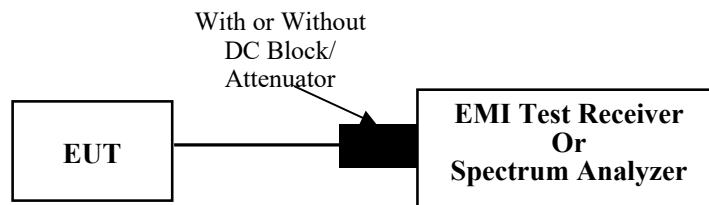
3.8 100 kHz Bandwidth Of Frequency Band Edge

3.8.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

3.8.2 EUT Setup



3.8.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.6

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

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

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

3.9 Antenna Requirement

3.9.1 Applicable Standard

FCC §15.203

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

3.9.2 Judgment

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

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2CGM-2,2CGM-6	Test Date:	2023/11/24
Test Site:	CE	Test Mode:	Transmitting(maximum output power mode GFSK middle channel ANT 0)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.2	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101.1
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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

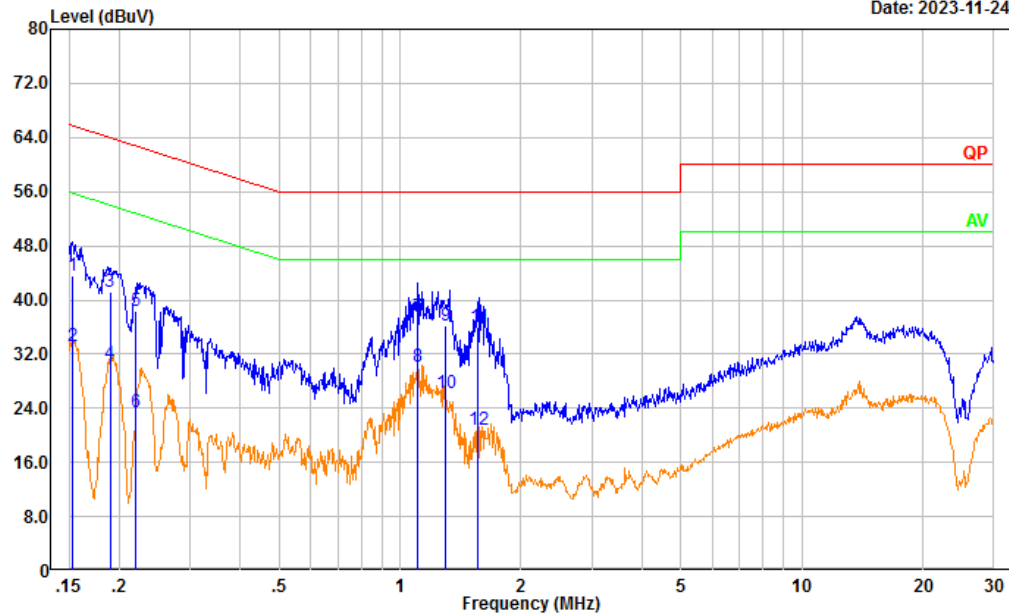
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

For Sample 2CGM-2 (Adapter 1)

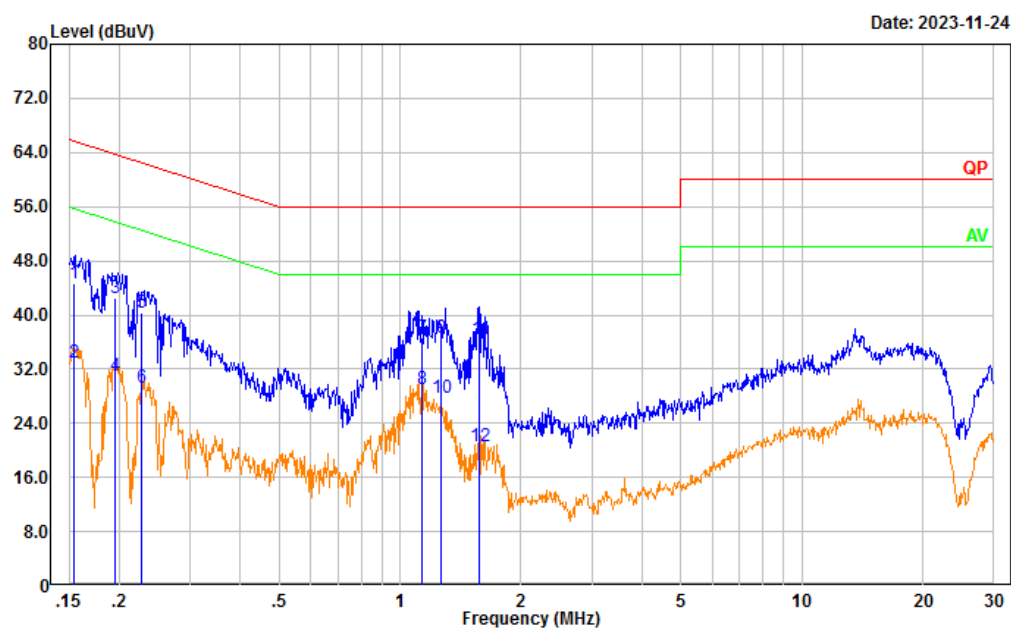
Project No.: CR231061288-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT)

Date: 2023-11-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.153	33.88	9.61	43.49	65.82	22.33	QP
2	0.153	23.57	9.61	33.18	55.82	22.64	Average
3	0.190	31.67	9.61	41.28	64.05	22.77	QP
4	0.190	20.89	9.61	30.50	54.05	23.55	Average
5	0.220	28.69	9.61	38.30	62.82	24.52	QP
6	0.220	13.84	9.61	23.45	52.82	29.37	Average
7	1.108	27.94	9.62	37.56	56.00	18.44	QP
8	1.108	20.43	9.62	30.05	46.00	15.95	Average
9	1.301	26.61	9.62	36.23	56.00	19.77	QP
10	1.301	16.66	9.62	26.28	46.00	19.72	Average
11	1.565	26.31	9.63	35.94	56.00	20.06	QP
12	1.565	11.19	9.63	20.82	46.00	25.18	Average

Project No.: CR231061288-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BT)

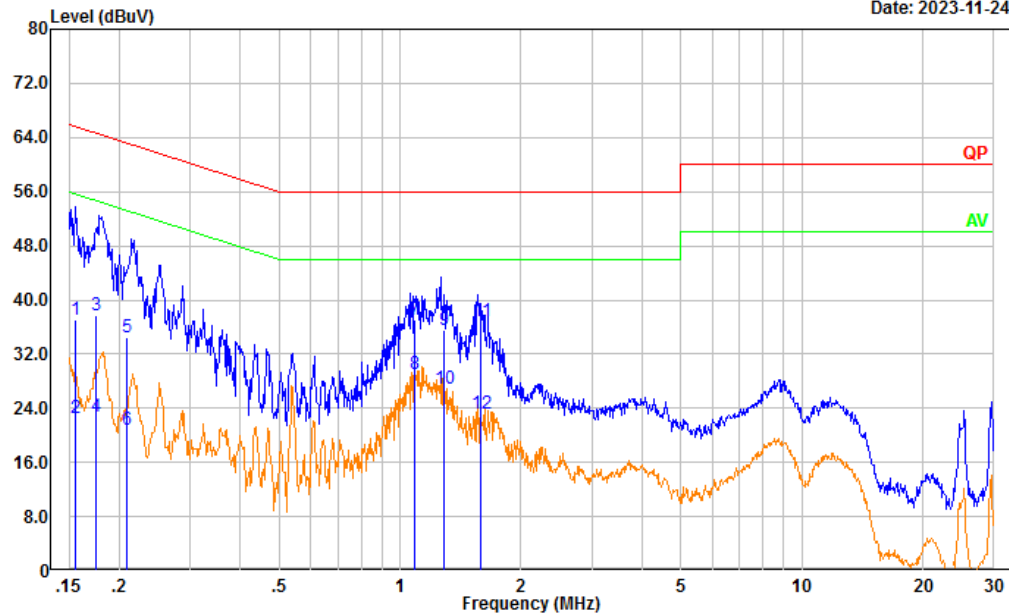


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.154	35.06	9.61	44.67	65.77	21.10	QP
2	0.154	23.33	9.61	32.94	55.77	22.83	Average
3	0.195	32.84	9.61	42.45	63.83	21.38	QP
4	0.195	21.29	9.61	30.90	53.83	22.93	Average
5	0.227	30.67	9.61	40.28	62.57	22.29	QP
6	0.227	19.68	9.61	29.29	52.57	23.28	Average
7	1.132	26.99	9.62	36.61	56.00	19.39	QP
8	1.132	19.45	9.62	29.07	46.00	16.93	Average
9	1.265	26.96	9.62	36.58	56.00	19.42	QP
10	1.265	18.10	9.62	27.72	46.00	18.28	Average
11	1.577	26.74	9.63	36.37	56.00	19.63	QP
12	1.577	10.91	9.63	20.54	46.00	25.46	Average

For Sample 2CGM-2 (Adapter 2)

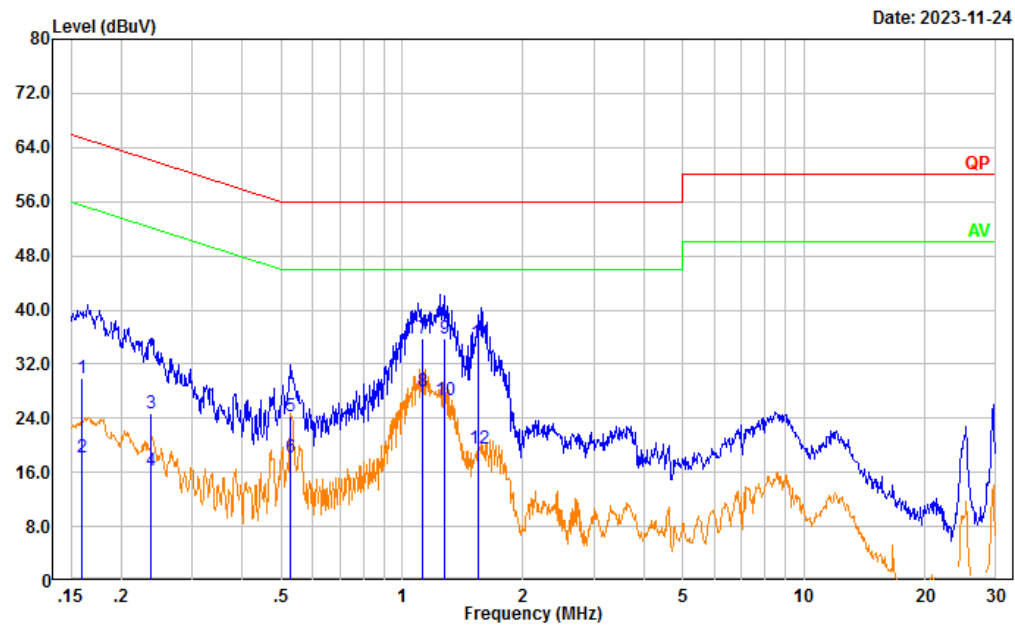
Project No.: CR231061288-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(BT)

Date: 2023-11-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.156	27.43	9.61	37.04	65.66	28.62	QP
2	0.156	13.02	9.61	22.63	55.66	33.03	Average
3	0.175	28.19	9.61	37.80	64.72	26.92	QP
4	0.175	13.16	9.61	22.77	54.72	31.95	Average
5	0.209	24.79	9.61	34.40	63.26	28.86	QP
6	0.209	11.27	9.61	20.88	53.26	32.38	Average
7	1.085	27.49	9.62	37.11	56.00	18.89	QP
8	1.085	19.35	9.62	28.97	46.00	17.03	Average
9	1.286	26.02	9.62	35.64	56.00	20.36	QP
10	1.286	17.30	9.62	26.92	46.00	19.08	Average
11	1.589	27.12	9.63	36.75	56.00	19.25	QP
12	1.589	13.60	9.63	23.23	46.00	22.77	Average

Project No.: CR231061288-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BT)

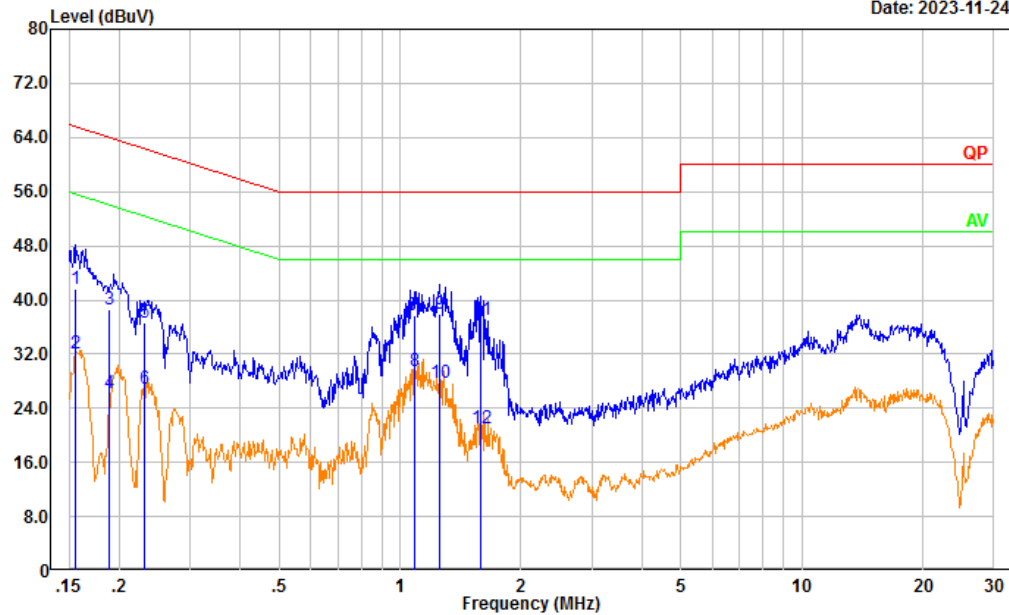


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.160	20.33	9.61	29.94	65.45	35.51	QP
2	0.160	8.51	9.61	18.12	55.45	37.33	Average
3	0.238	15.07	9.61	24.68	62.17	37.49	QP
4	0.238	6.58	9.61	16.19	52.17	35.98	Average
5	0.529	14.73	9.61	24.34	56.00	31.66	QP
6	0.529	8.59	9.61	18.20	46.00	27.80	Average
7	1.122	26.06	9.62	35.68	56.00	20.32	QP
8	1.122	18.27	9.62	27.89	46.00	18.11	Average
9	1.277	26.15	9.62	35.77	56.00	20.23	QP
10	1.277	16.95	9.62	26.57	46.00	19.43	Average
11	1.553	25.46	9.63	35.09	56.00	20.91	QP
12	1.553	9.84	9.63	19.47	46.00	26.53	Average

For Sample 2CGM-6(Adapter 1)

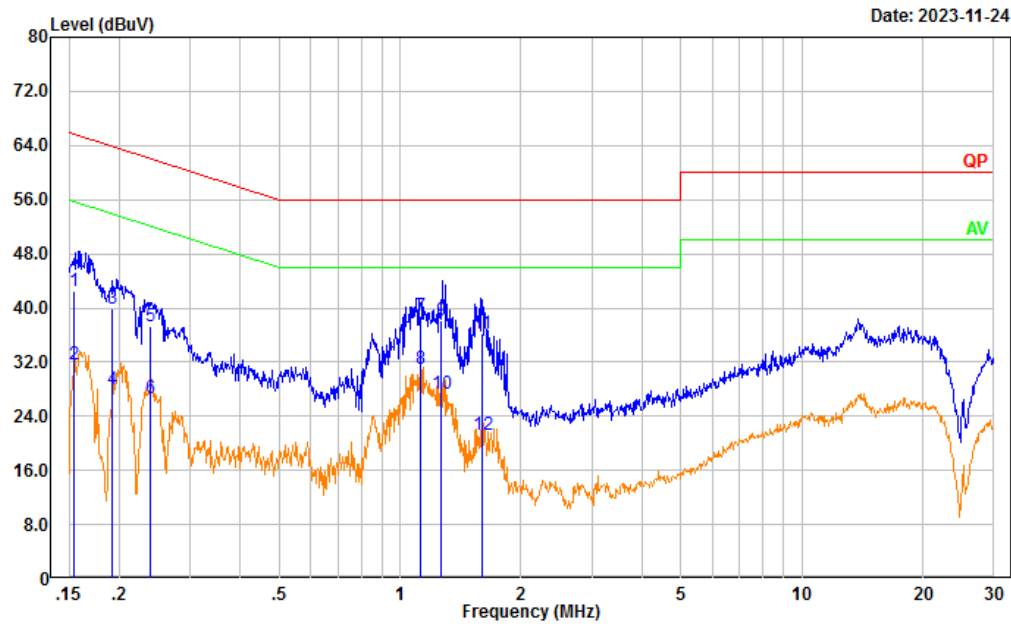
Project No.: CR231061288-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT)

Date: 2023-11-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.156	31.96	9.61	41.57	65.68	24.11	QP
2	0.156	22.46	9.61	32.07	55.68	23.61	Average
3	0.189	29.06	9.61	38.67	64.08	25.41	QP
4	0.189	16.60	9.61	26.21	54.08	27.87	Average
5	0.232	27.07	9.61	36.68	62.38	25.70	QP
6	0.232	17.34	9.61	26.95	52.38	25.43	Average
7	1.085	28.13	9.62	37.75	56.00	18.25	QP
8	1.085	19.81	9.62	29.43	46.00	16.57	Average
9	1.253	28.30	9.62	37.92	56.00	18.08	QP
10	1.253	18.09	9.62	27.71	46.00	18.29	Average
11	1.590	27.43	9.63	37.06	56.00	18.94	QP
12	1.590	11.37	9.63	21.00	46.00	25.00	Average

Project No.: CR231061288-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.154	32.93	9.61	42.54	65.76	23.22	QP
2	0.154	22.03	9.61	31.64	55.76	24.12	Average
3	0.192	30.27	9.61	39.88	63.97	24.09	QP
4	0.192	18.46	9.61	28.07	53.97	25.90	Average
5	0.238	27.61	9.61	37.22	62.16	24.94	QP
6	0.238	17.06	9.61	26.67	52.16	25.49	Average
7	1.120	29.10	9.62	38.72	56.00	17.28	QP
8	1.120	21.34	9.62	30.96	46.00	15.04	Average
9	1.265	28.62	9.62	38.24	56.00	17.76	QP
10	1.265	17.73	9.62	27.35	46.00	18.65	Average
11	1.602	26.52	9.63	36.15	56.00	19.85	QP
12	1.602	11.68	9.63	21.31	46.00	24.69	Average

4.2 Radiated Spurious Emissions

Serial Number:	2CGM-2、2CGM-6	Test Date:	2023/11/23~2023/11/30
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Jeff Luo, coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3~25.6	Relative Humidity: (%)	48~56	ATM Pressure: (kPa)	101.1~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/11/9	2026/11/8
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
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
PASTERNAK	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:

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

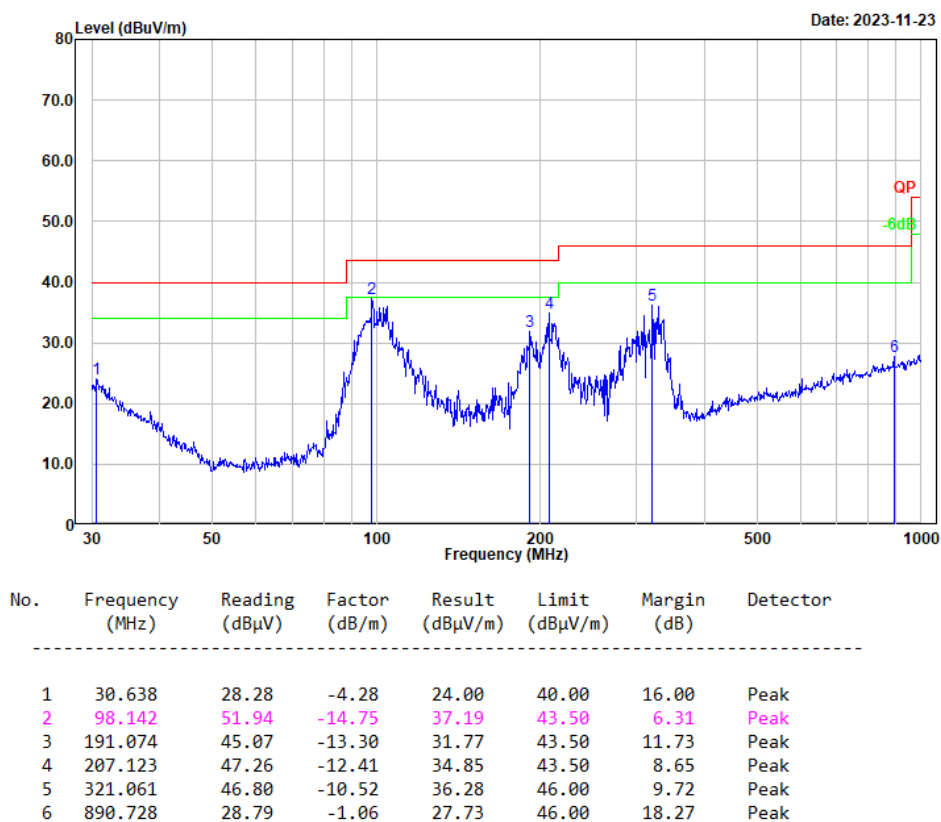
For 9kHz-30MHz, The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded

1) 30MHz-1GHz (Transmitting maximum output power mode BDR mode ANT 0)

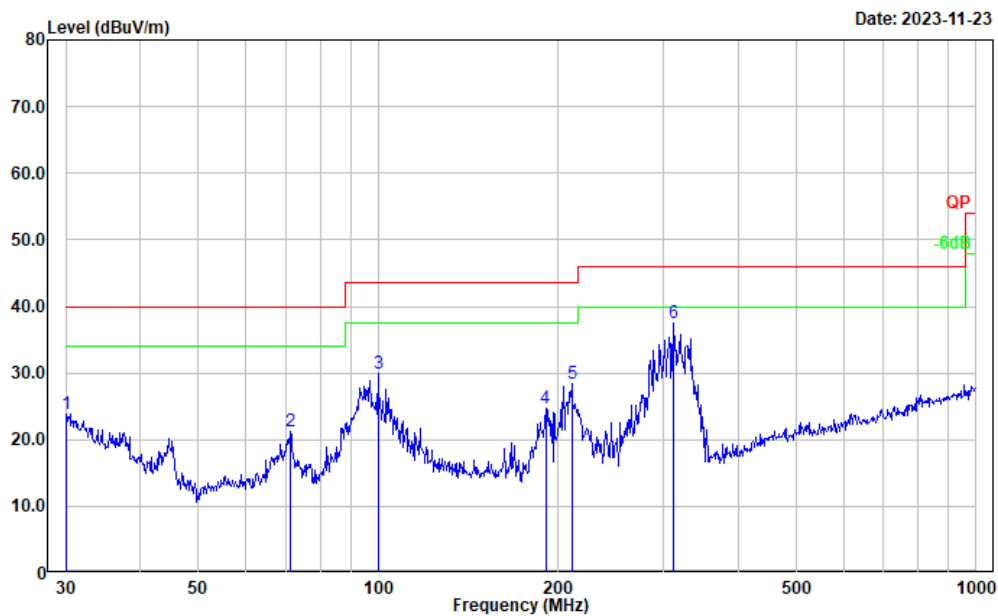
Low Channel

For Sample 2CGM-2 (Adapter 1)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-2 KX070129253A13)



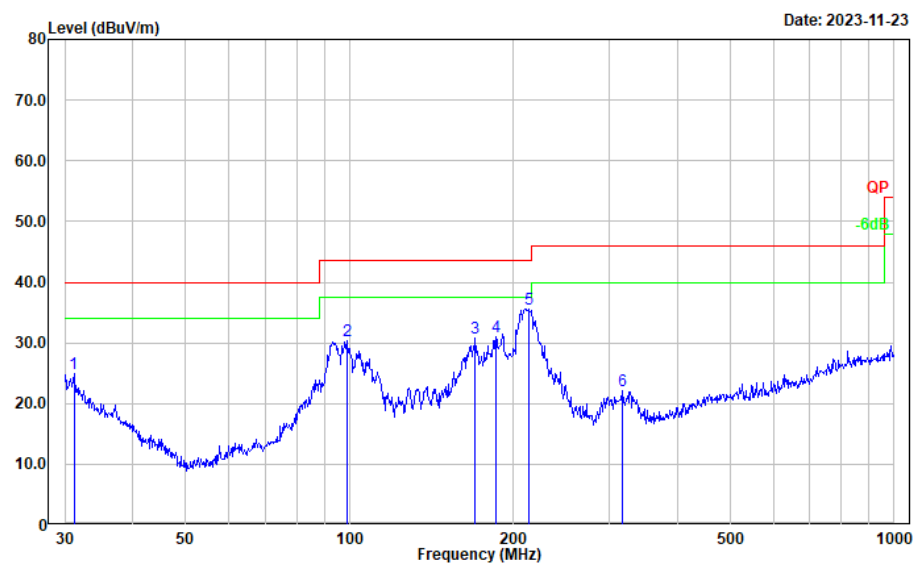
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-2 KX070129253A13)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	27.68	-3.80	23.88	40.00	16.12	Peak
2	71.330	37.93	-16.70	21.23	40.00	18.77	Peak
3	99.878	44.34	-14.35	29.99	43.50	13.51	Peak
4	190.405	38.02	-13.41	24.61	43.50	18.89	Peak
5	210.786	40.87	-12.52	28.35	43.50	15.15	Peak
6	311.087	48.03	-10.60	37.43	46.00	8.57	Peak

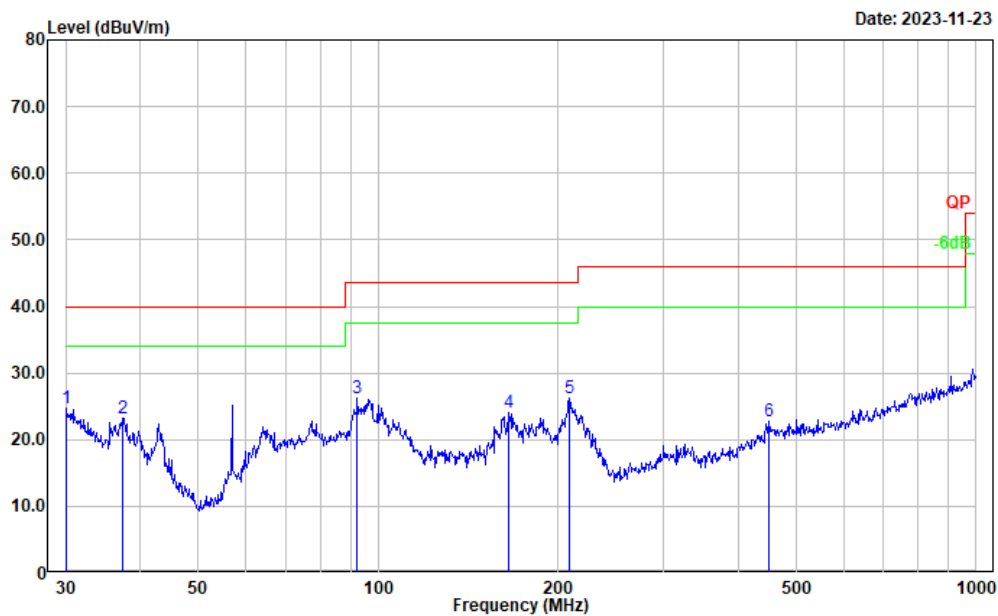
For Sample 2CGM-2 (Adapter 2)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-2 Y07019513916)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.180	29.57	-4.69	24.88	40.00	15.12	Peak
2	98.833	44.98	-14.59	30.39	43.50	13.11	Peak
3	170.195	43.68	-12.86	30.82	43.50	12.68	Peak
4	185.788	44.61	-13.52	31.09	43.50	12.41	Peak
5	213.763	48.18	-12.61	35.57	43.50	7.93	Peak
6	317.701	32.66	-10.58	22.08	46.00	23.92	Peak

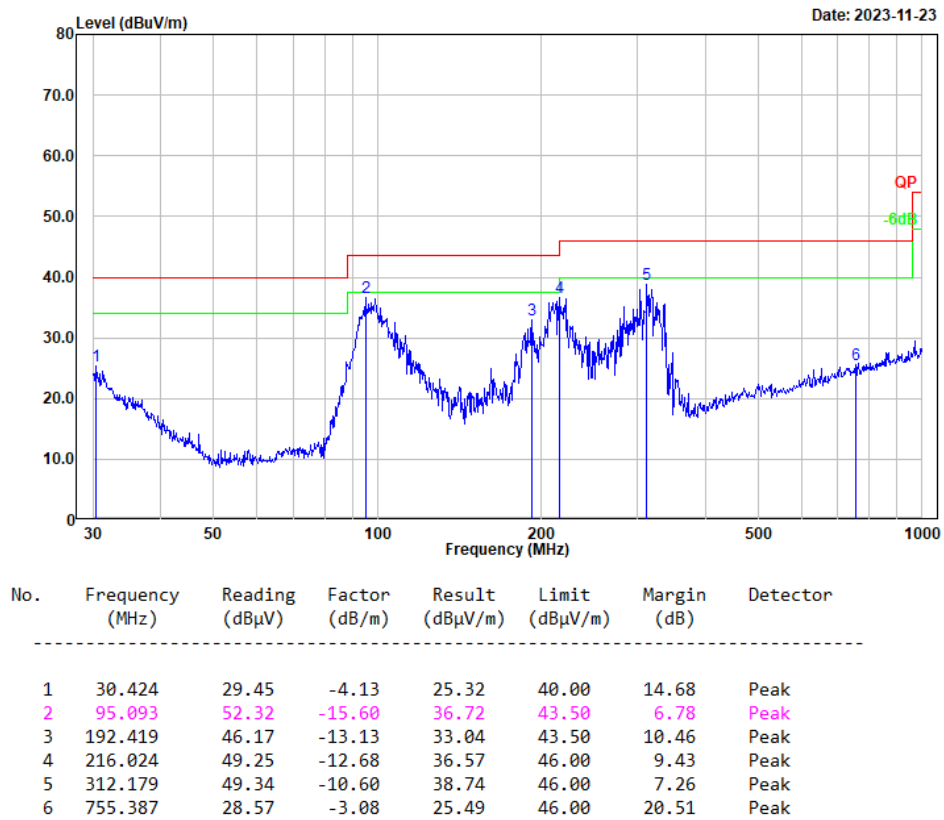
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-2 Y07019513916)



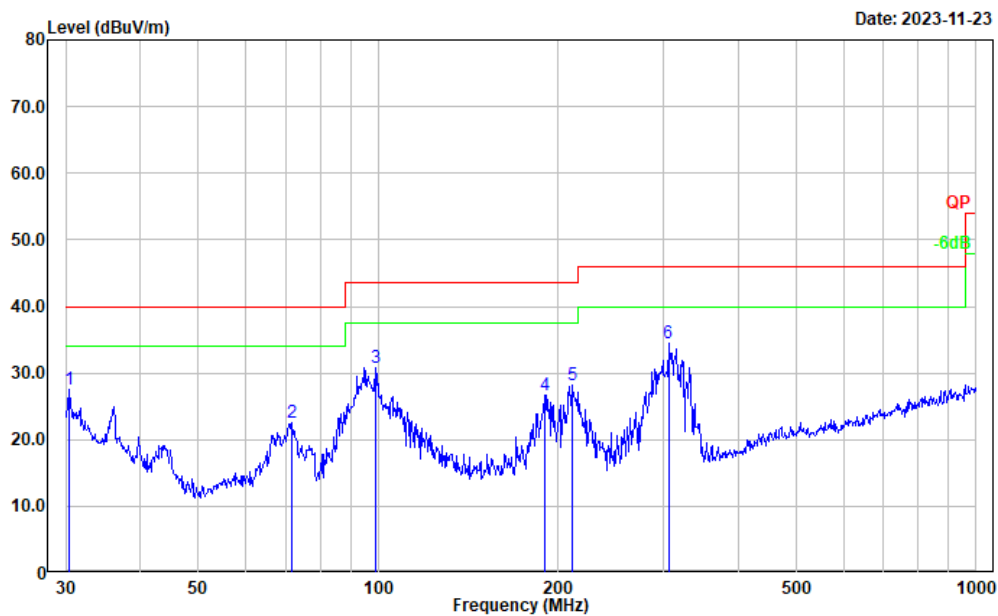
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	28.52	-3.80	24.72	40.00	15.28	Peak
2	37.285	32.65	-9.35	23.30	40.00	16.70	Peak
3	92.139	42.74	-16.41	26.33	43.50	17.17	Peak
4	164.908	36.40	-12.40	24.00	43.50	19.50	Peak
5	208.580	38.68	-12.46	26.22	43.50	17.28	Peak
6	451.135	29.63	-6.91	22.72	46.00	23.28	Peak

For Sample 2CGM-6 (Adapter 1)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-6 KX070129253A13)



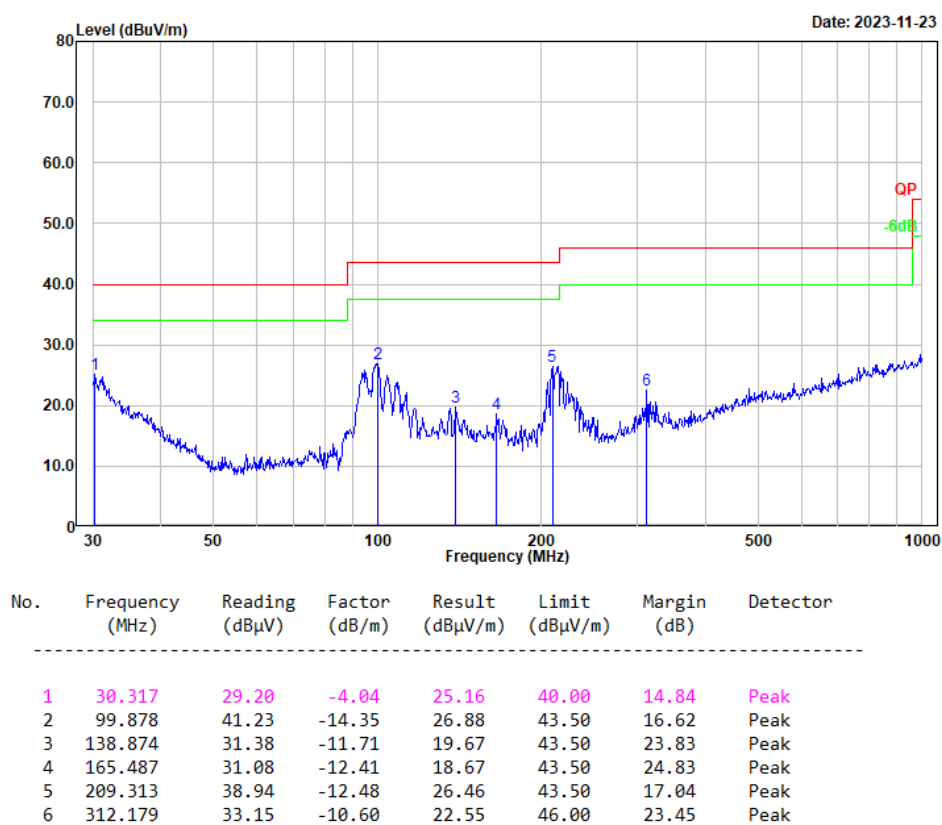
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-6 KX070129253A13)



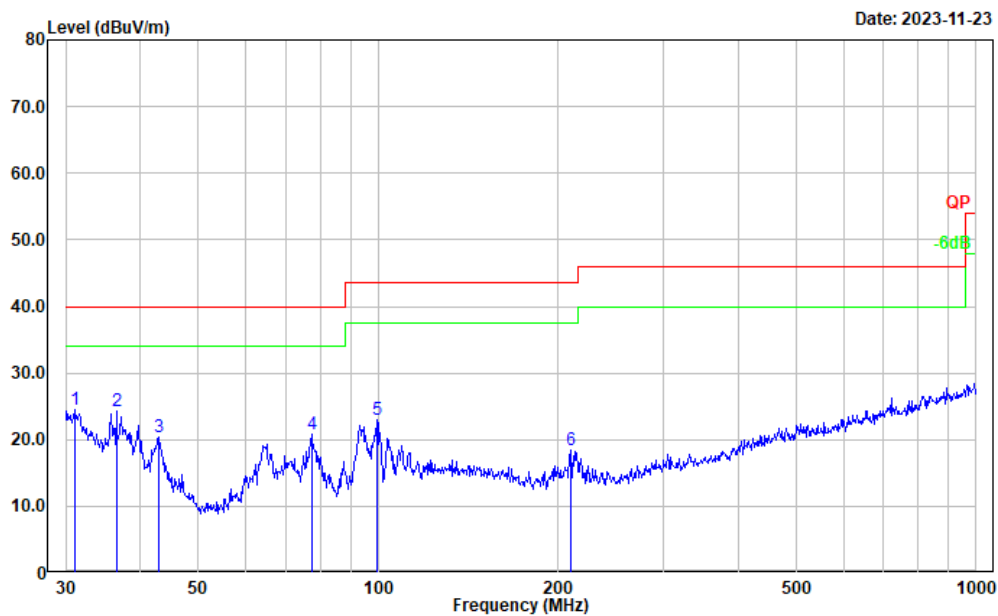
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	31.74	-4.13	27.61	40.00	12.39	Peak
2	71.832	39.38	-16.74	22.64	40.00	17.36	Peak
3	98.833	45.46	-14.59	30.87	43.50	12.63	Peak
4	189.739	40.11	-13.47	26.64	43.50	16.86	Peak
5	210.786	40.69	-12.52	28.17	43.50	15.33	Peak
6	305.680	45.12	-10.57	34.55	46.00	11.45	Peak

For Sample 2CGM-6 (Adapter 2)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-6 Y07019513916)



Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-6 Y07019513916)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.071	29.19	-4.61	24.58	40.00	15.42	Peak
2	36.509	33.04	-8.76	24.28	40.00	15.72	Peak
3	42.900	33.54	-13.05	20.49	40.00	19.51	Peak
4	77.321	38.03	-17.21	20.82	40.00	19.18	Peak
5	99.528	37.43	-14.43	23.00	43.50	20.50	Peak
6	210.048	30.91	-12.49	18.42	43.50	25.08	Peak

Middle Channel

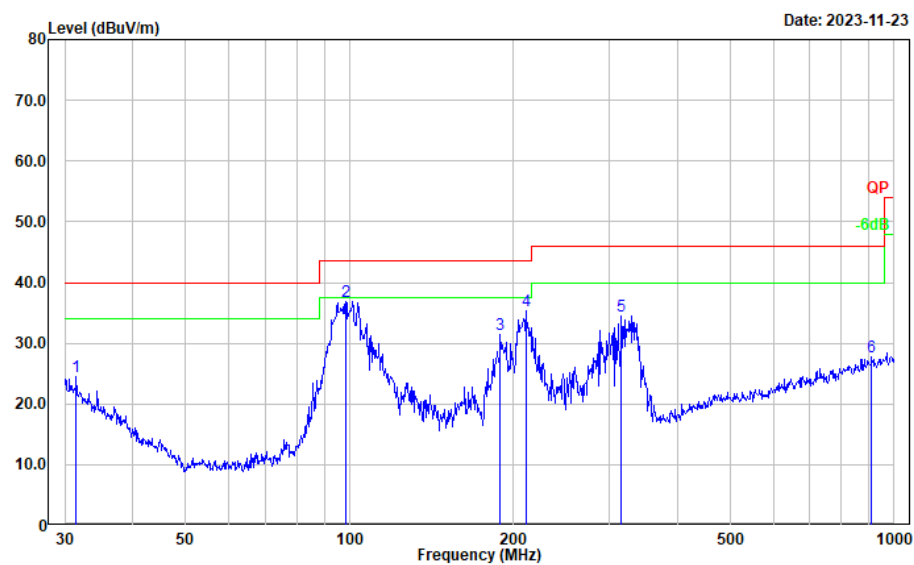
For Sample 2CGM-2 (Adapter 1)

Project No.: CR231061288-RF

Tester: Jeff Luo

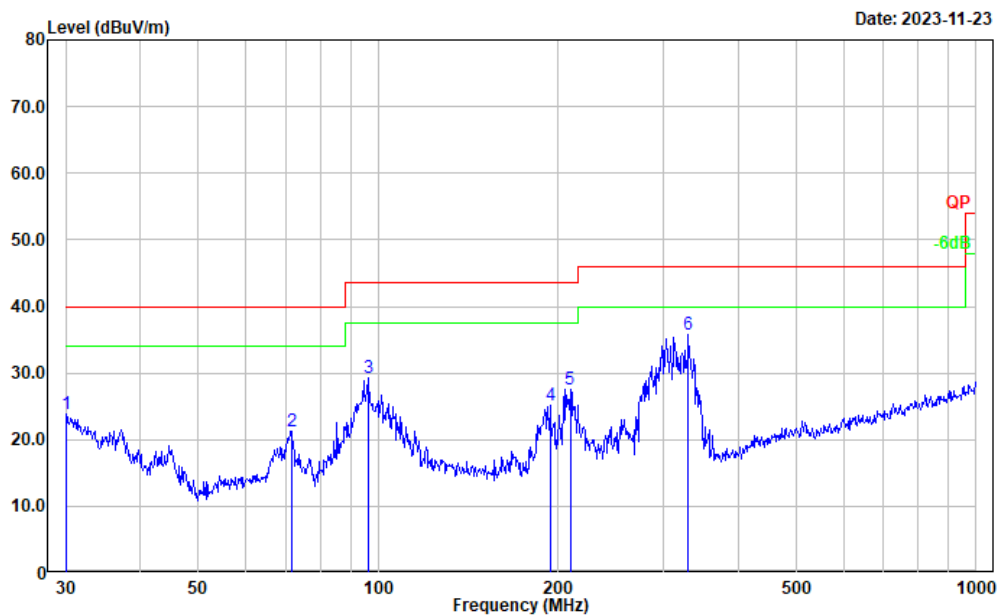
Polarization: horizontal

Note: Transmitting(BT 2CGM-2 KX070129253A13)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.510	29.36	-4.93	24.43	40.00	15.57	Peak
2	98.487	51.54	-14.66	36.88	43.50	6.62	Peak
3	189.074	44.85	-13.47	31.38	43.50	12.12	Peak
4	210.786	47.78	-12.52	35.26	43.50	8.24	Peak
5	315.481	45.10	-10.59	34.51	46.00	11.49	Peak
6	909.667	28.36	-0.62	27.74	46.00	18.26	Peak

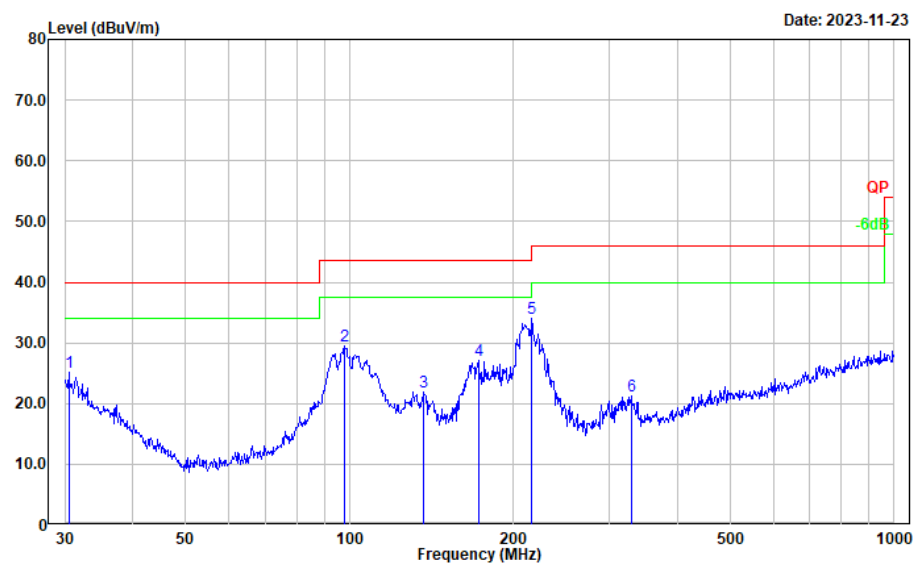
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-2 KX070129253A13)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	27.64	-3.88	23.76	40.00	16.24	Peak
2	71.581	37.94	-16.72	21.22	40.00	18.78	Peak
3	96.099	44.56	-15.31	29.25	43.50	14.25	Peak
4	193.773	38.21	-12.96	25.25	43.50	18.25	Peak
5	209.313	40.02	-12.48	27.54	43.50	15.96	Peak
6	330.195	45.97	-10.23	35.74	46.00	10.26	Peak

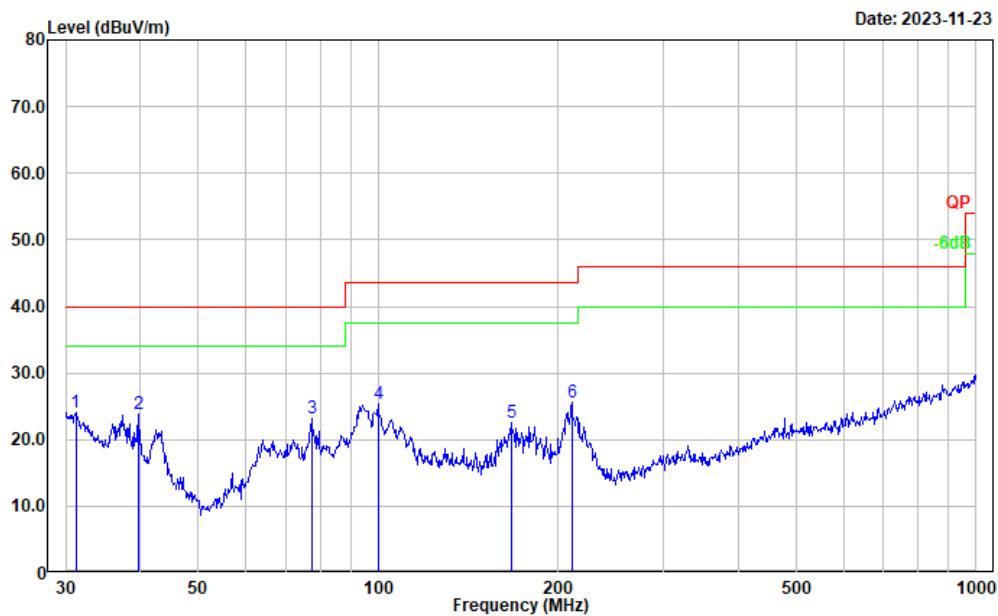
For Sample 2CGM-2 (Adapter 2)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-2 Y07019513916)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.531	29.42	-4.20	25.22	40.00	14.78	Peak
2	97.798	44.37	-14.85	29.52	43.50	13.98	Peak
3	136.939	33.62	-11.63	21.99	43.50	21.51	Peak
4	172.599	40.19	-12.98	27.21	43.50	16.29	Peak
5	216.024	46.70	-12.68	34.02	46.00	11.98	Peak
6	329.039	31.41	-10.26	21.15	46.00	24.85	Peak

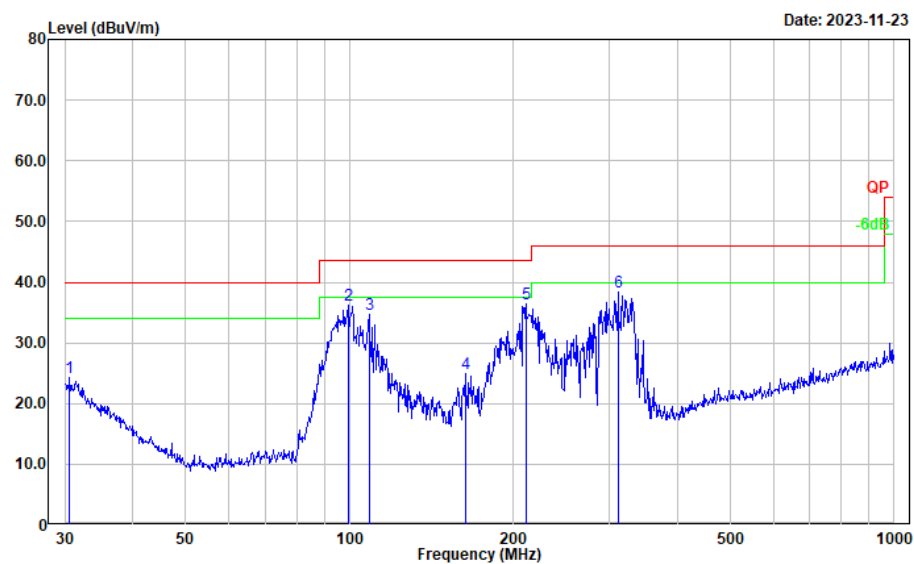
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-2 Y07019513916)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.180	28.73	-4.69	24.04	40.00	15.96	Peak
2	39.715	34.95	-11.19	23.76	40.00	16.24	Peak
3	77.321	40.44	-17.21	23.23	40.00	16.77	Peak
4	99.878	39.67	-14.35	25.32	43.50	18.18	Peak
5	166.651	35.00	-12.53	22.47	43.50	21.03	Peak
6	210.786	38.14	-12.52	25.62	43.50	17.88	Peak

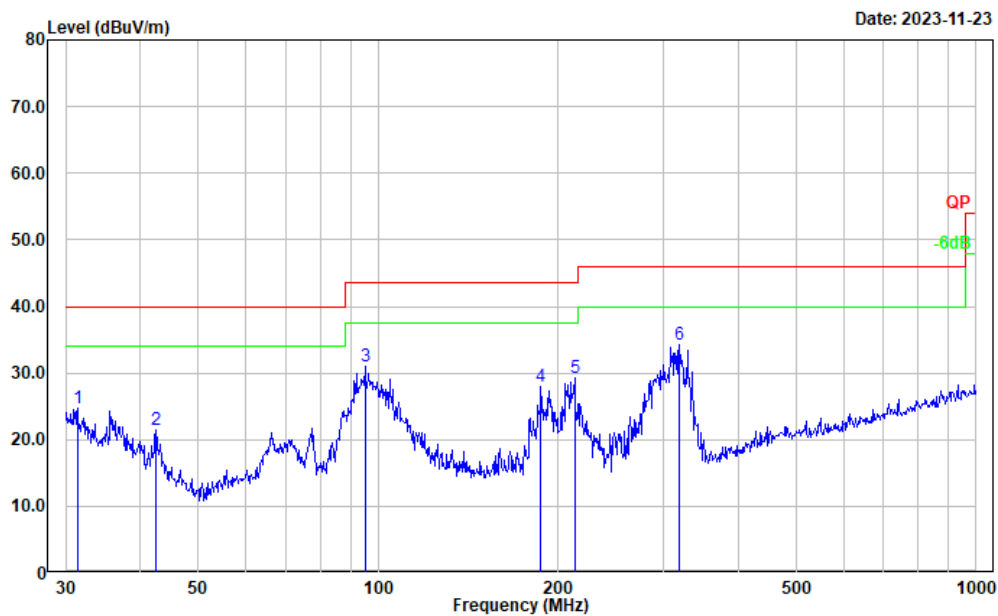
For Sample 2CGM-6 (Adapter 1)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-6 KX070129253A13)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	28.52	-4.28	24.24	40.00	15.76	Peak
2	99.528	50.61	-14.43	36.18	43.50	7.32	Peak
3	108.647	47.28	-12.54	34.74	43.50	8.76	Peak
4	163.182	37.12	-12.25	24.87	43.50	18.63	Peak
5	210.786	48.92	-12.52	36.40	43.50	7.10	Peak
6	311.087	48.95	-10.60	38.35	46.00	7.65	Peak

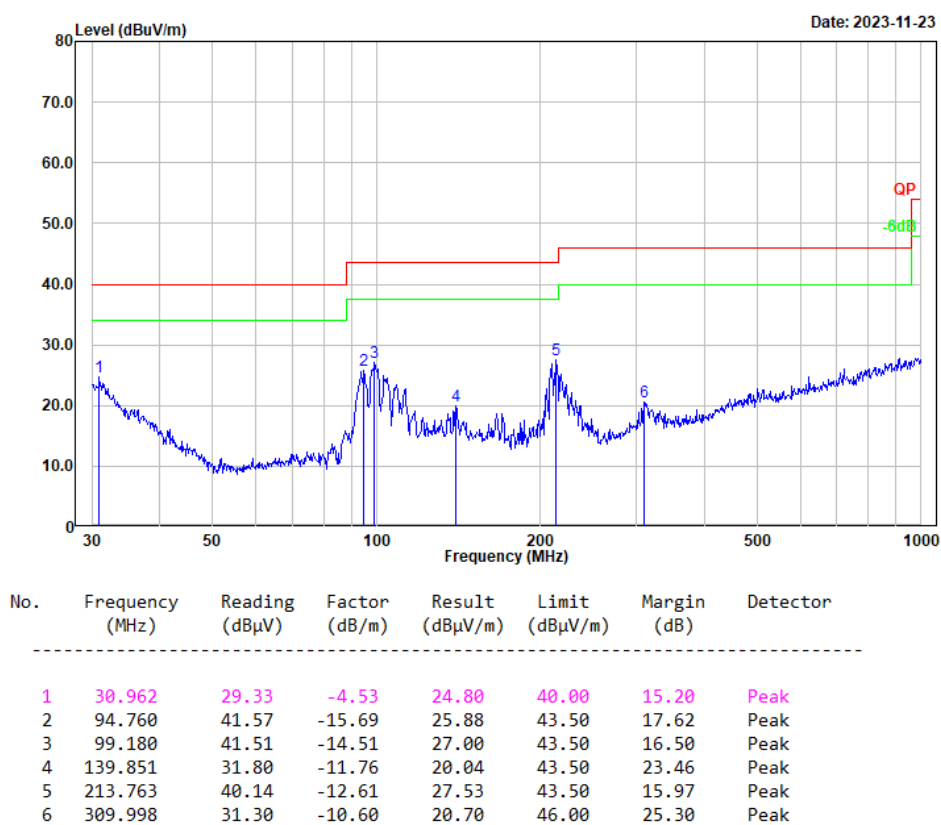
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-6 KX070129253A13)



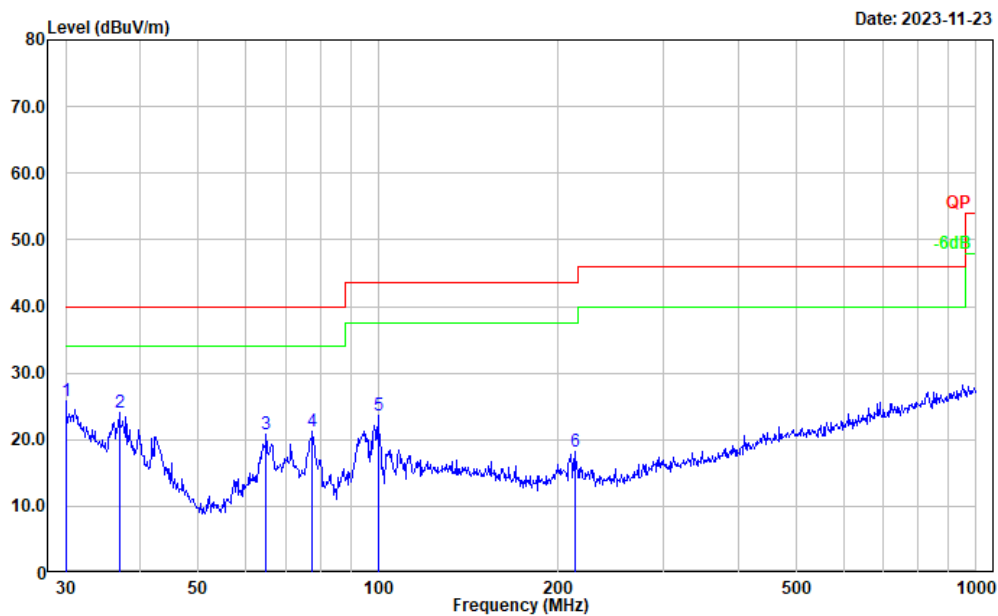
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.399	29.67	-4.86	24.81	40.00	15.19	Peak
2	42.451	34.20	-12.78	21.42	40.00	18.58	Peak
3	95.093	46.59	-15.60	30.99	43.50	12.51	Peak
4	187.096	41.59	-13.54	28.05	43.50	15.45	Peak
5	213.015	41.78	-12.57	29.21	43.50	14.29	Peak
6	318.817	44.76	-10.56	34.20	46.00	11.80	Peak

For Sample 2CGM-6 (Adapter 2)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-6 Y07019513916)



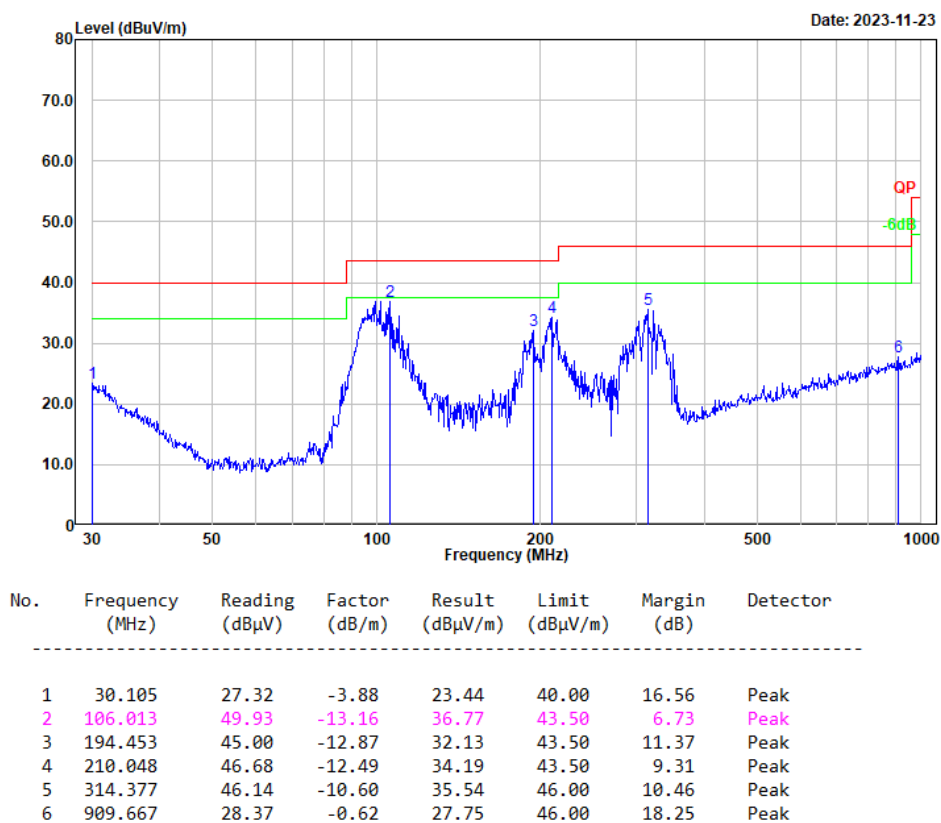
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-6 Y07019513916)



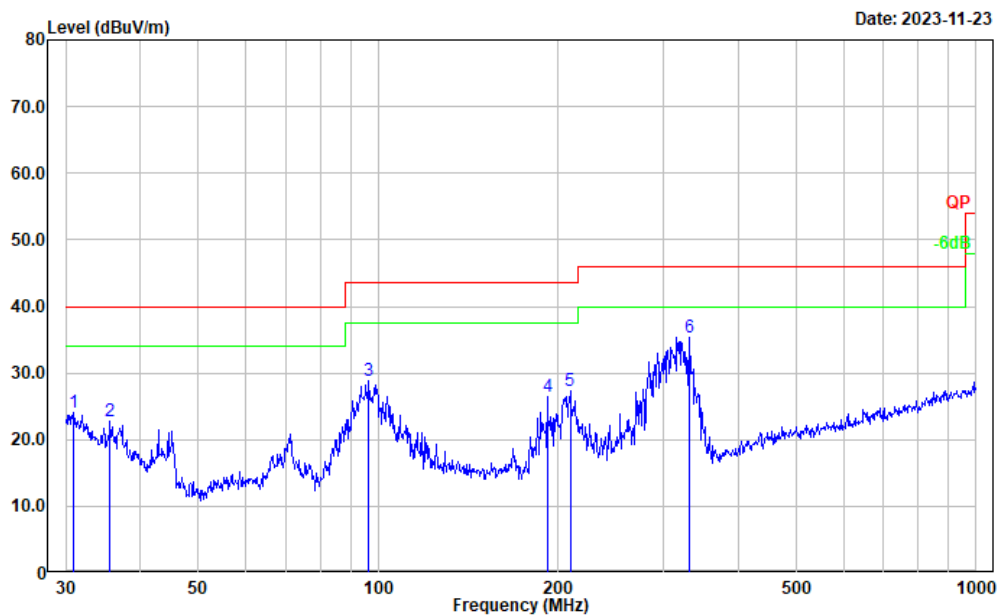
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	29.67	-3.80	25.87	40.00	14.13	Peak
2	36.895	33.16	-9.06	24.10	40.00	15.90	Peak
3	64.887	37.78	-16.94	20.84	40.00	19.16	Peak
4	77.593	38.44	-17.23	21.21	40.00	18.79	Peak
5	99.878	37.90	-14.35	23.55	43.50	19.95	Peak
6	213.015	30.69	-12.57	18.12	43.50	25.38	Peak

High Channel
For Sample 2CGM-2 (Adapter 1)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-2 KX070129253A13)



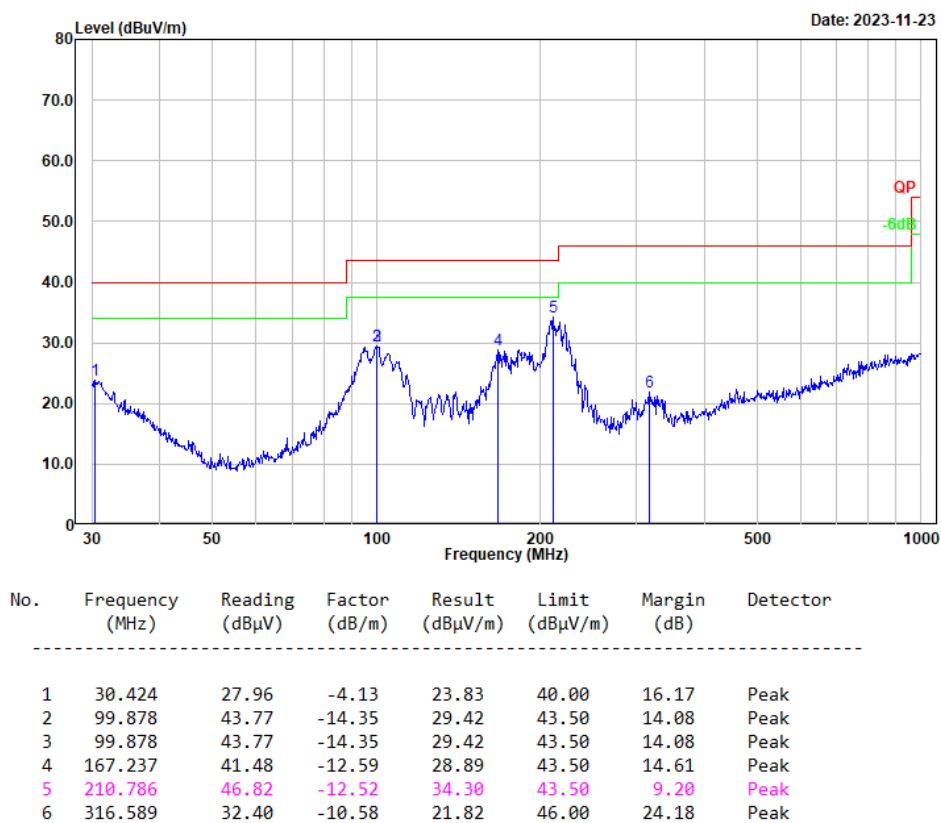
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-2 KX070129253A13)



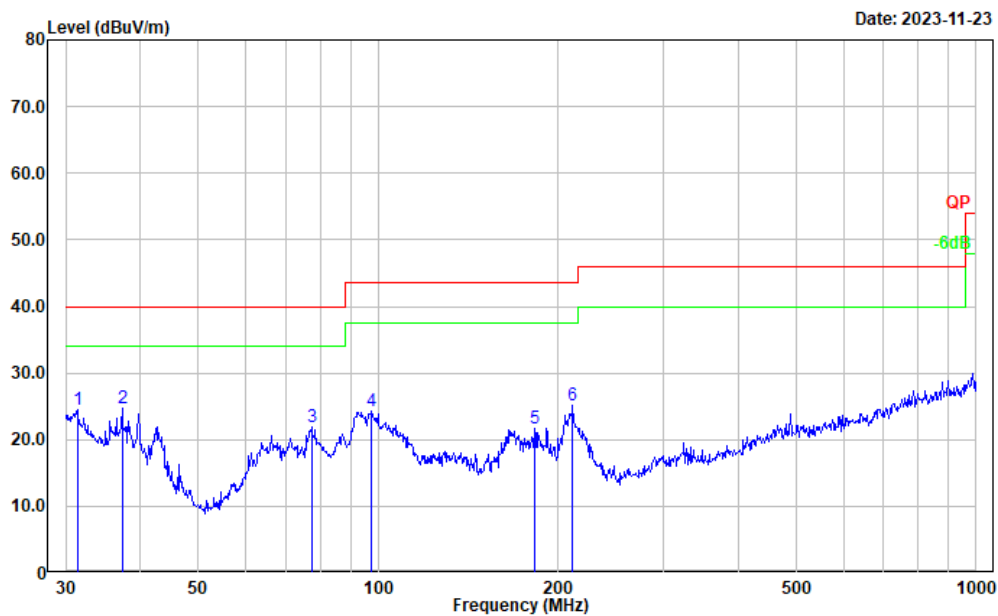
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.962	28.58	-4.53	24.05	40.00	15.95	Peak
2	35.624	30.76	-8.10	22.66	40.00	17.34	Peak
3	96.436	43.98	-15.23	28.75	43.50	14.75	Peak
4	191.745	39.61	-13.21	26.40	43.50	17.10	Peak
5	209.313	39.86	-12.48	27.38	43.50	16.12	Peak
6	331.355	45.64	-10.20	35.44	46.00	10.56	Peak

For Sample 2CGM-2 (Adapter 2)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-2 Y07019513916)



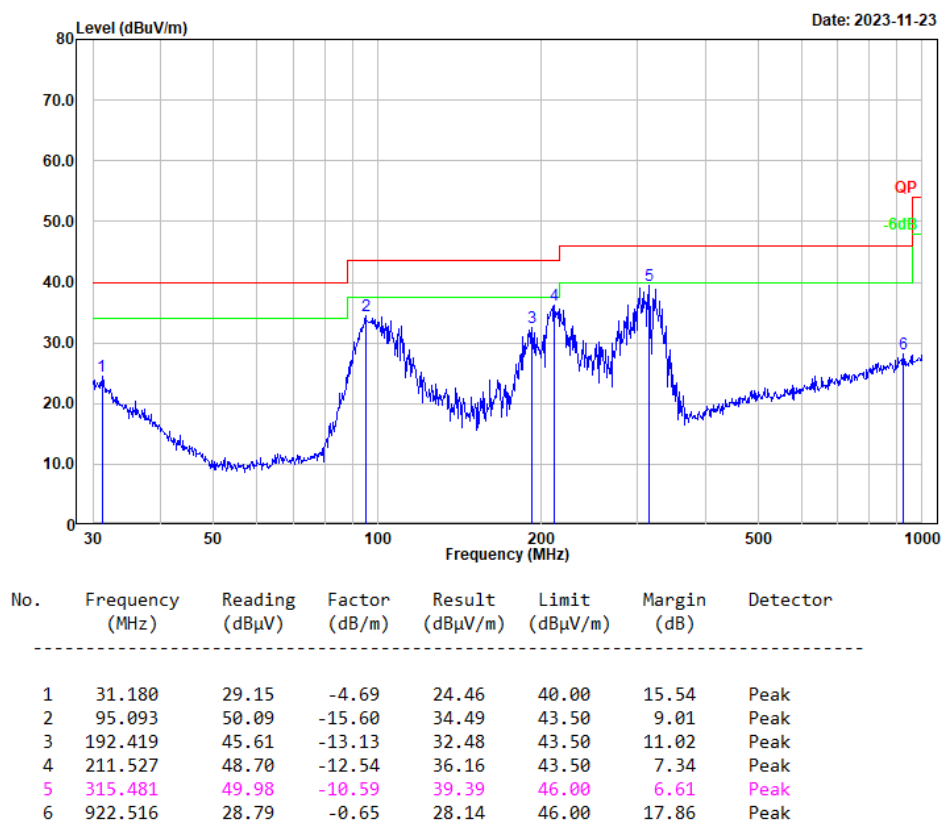
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-2 Y07019513916)



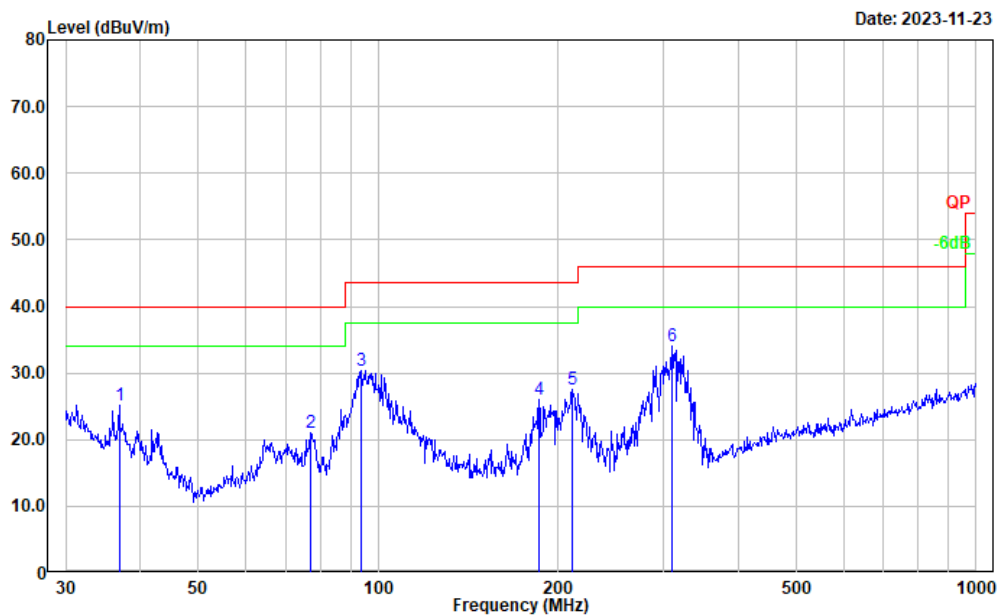
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.399	29.42	-4.86	24.56	40.00	15.44	Peak
2	37.285	33.96	-9.35	24.61	40.00	15.39	Peak
3	77.321	39.04	-17.21	21.83	40.00	18.17	Peak
4	97.456	39.28	-14.94	24.34	43.50	19.16	Peak
5	182.559	35.14	-13.53	21.61	43.50	21.89	Peak
6	211.527	37.75	-12.54	25.21	43.50	18.29	Peak

For Sample 2CGM-6 (Adapter 1)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-6 KX070129253A13)



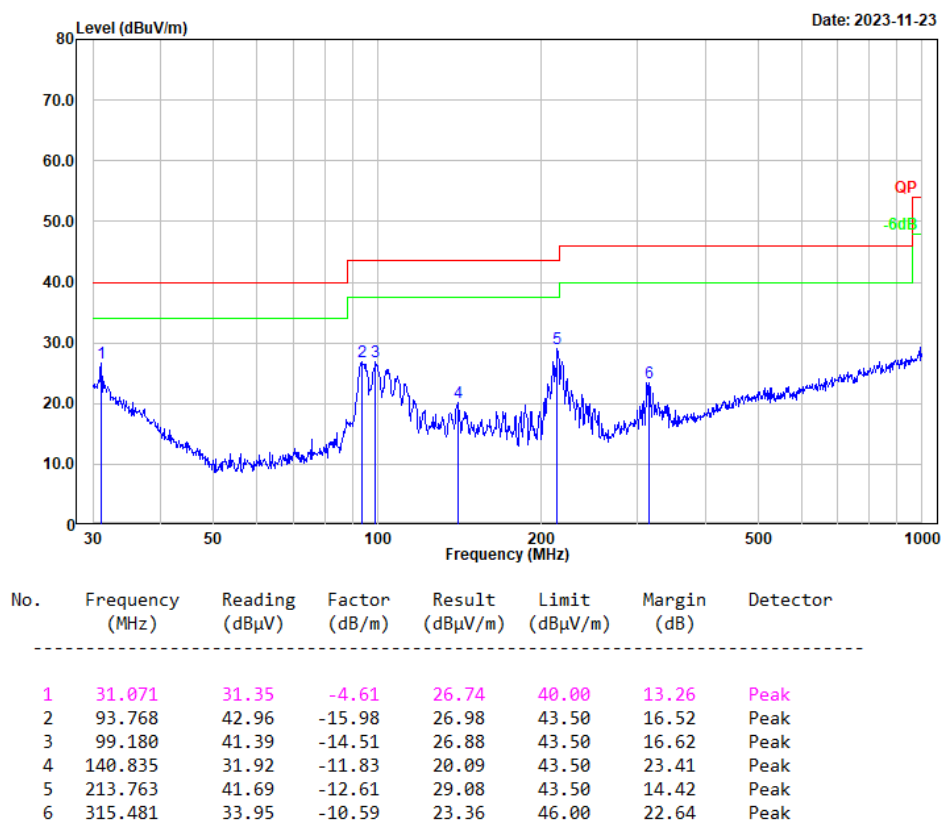
Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-6 KX070129253A13)



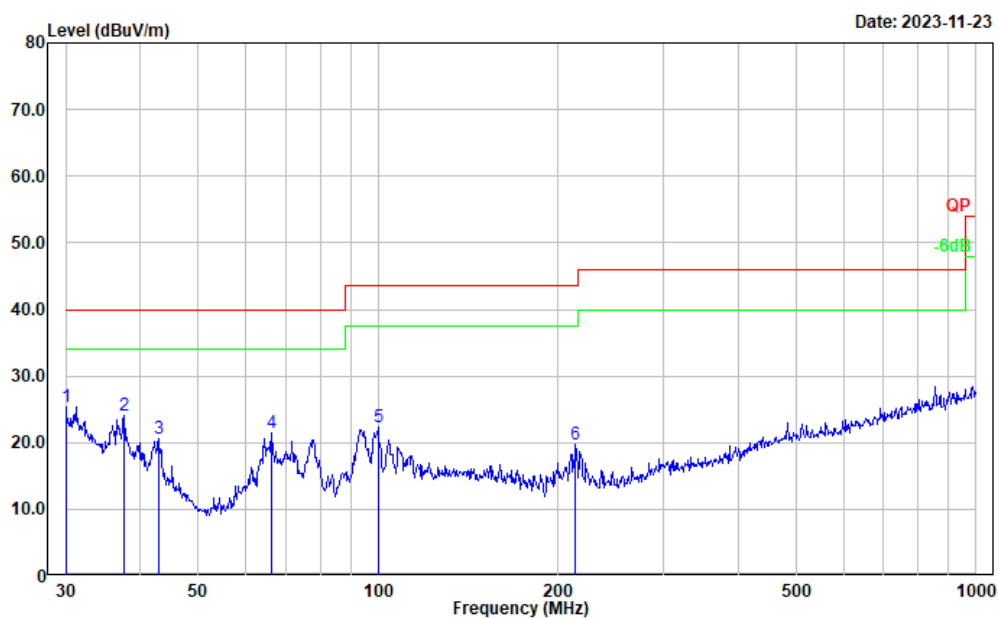
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	36.895	34.30	-9.06	25.24	40.00	14.76	Peak
2	77.051	38.17	-17.17	21.00	40.00	19.00	Peak
3	93.768	46.44	-15.98	30.46	43.50	13.04	Peak
4	185.788	39.43	-13.52	25.91	43.50	17.59	Peak
5	210.786	40.08	-12.52	27.56	43.50	15.94	Peak
6	309.998	44.68	-10.60	34.08	46.00	11.92	Peak

For Sample 2CGM-6 (Adapter 2)

Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT 2CGM-6 Y07019513916)



Project No.: CR231061288-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT 2CGM-6 Y07019513916)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	29.12	-3.80	25.32	40.00	14.68	Peak
2	37.548	33.62	-9.52	24.10	40.00	15.90	Peak
3	42.900	33.70	-13.05	20.65	40.00	19.35	Peak
4	66.266	38.23	-16.86	21.37	40.00	18.63	Peak
5	99.878	36.59	-14.35	22.24	43.50	21.26	Peak
6	213.763	32.32	-12.61	19.71	43.50	23.79	Peak

2) 1-25GHz:**Test Data(Ant0):****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	26.44	PK	H	31.71	58.15	74.00	15.85
2390.000	15.62	AV	H	31.71	47.33	54.00	6.67
2390.000	26.33	PK	V	31.71	58.04	74.00	15.96
2390.000	15.51	AV	V	31.71	47.22	54.00	6.78
4804.000	42.47	PK	H	11.19	53.66	74.00	20.34
4804.000	34.16	AV	H	11.19	45.35	54.00	8.65
4804.000	42.74	PK	V	11.19	53.93	74.00	20.07
4804.000	34.40	AV	V	11.19	45.59	54.00	8.41
Middle Channel: 2441 MHz							
4882.000	41.42	PK	H	11.48	52.90	74.00	21.10
4882.000	32.84	AV	H	11.48	44.32	54.00	9.68
4882.000	41.67	PK	V	11.48	53.15	74.00	20.85
4882.000	33.09	AV	V	11.48	44.57	54.00	9.43
High Channel: 2480 MHz							
2483.500	35.69	PK	H	32.19	67.88	74.00	6.12
2483.500	15.56	AV	H	32.19	47.75	54.00	6.25
2483.500	35.50	PK	V	32.19	67.69	74.00	6.31
2483.500	15.44	AV	V	32.19	47.63	54.00	6.37
4960.000	41.32	PK	H	11.77	53.09	74.00	20.91
4960.000	32.38	AV	H	11.77	44.15	54.00	9.85
4960.000	41.57	PK	V	11.77	53.34	74.00	20.66
4960.000	32.64	AV	V	11.77	44.41	54.00	9.59

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

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	26.55	PK	H	31.71	58.26	74.00	15.74
2390.000	15.57	AV	H	31.71	47.28	54.00	6.72
2390.000	26.92	PK	V	31.71	58.63	74.00	15.37
2390.000	15.44	AV	V	31.71	47.15	54.00	6.85
4804.000	41.99	PK	H	11.19	53.18	74.00	20.82
4804.000	32.30	AV	H	11.19	43.49	54.00	10.51
4804.000	42.21	PK	V	11.19	53.40	74.00	20.60
4804.000	32.54	AV	V	11.19	43.73	54.00	10.27
Middle Channel: 2441 MHz							
4882.000	41.02	PK	H	11.48	52.50	74.00	21.50
4882.000	31.23	AV	H	11.48	42.71	54.00	11.29
4882.000	41.26	PK	V	11.48	52.74	74.00	21.26
4882.000	31.45	AV	V	11.48	42.93	54.00	11.07
High Channel: 2480 MHz							
2483.500	34.28	PK	H	32.19	66.47	74.00	7.53
2483.500	15.67	AV	H	32.19	47.86	54.00	6.14
2483.500	34.10	PK	V	32.19	66.29	74.00	7.71
2483.500	15.49	AV	V	32.19	47.68	54.00	6.32
4960.000	40.87	PK	H	11.77	52.64	74.00	21.36
4960.000	30.68	AV	H	11.77	42.45	54.00	11.55
4960.000	41.12	PK	V	11.77	52.89	74.00	21.11
4960.000	30.93	AV	V	11.77	42.70	54.00	11.30

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	26.93	PK	H	31.71	58.64	74.00	15.36
2390.000	15.68	AV	H	31.71	47.39	54.00	6.61
2390.000	26.82	PK	V	31.71	58.53	74.00	15.47
2390.000	15.55	AV	V	31.71	47.26	54.00	6.74
4804.000	41.82	PK	H	11.19	53.01	74.00	20.99
4804.000	31.07	AV	H	11.19	42.26	54.00	11.74
4804.000	42.04	PK	V	11.19	53.23	74.00	20.77
4804.000	32.28	AV	V	11.19	43.47	54.00	10.53
Middle Channel: 2441				MHz			
4882.000	40.84	PK	H	11.48	52.32	74.00	21.68
4882.000	31.00	AV	H	11.48	42.48	54.00	11.52
4882.000	41.07	PK	V	11.48	52.55	74.00	21.45
4882.000	31.23	AV	V	11.48	42.71	54.00	11.29
High Channel: 2480				MHz			
2483.500	33.16	PK	H	32.19	65.35	74.00	8.65
2483.500	15.72	AV	H	32.19	47.91	54.00	6.09
2483.500	33.03	PK	V	32.19	65.22	74.00	8.78
2483.500	15.58	AV	V	32.19	47.77	54.00	6.23
4960.000	40.72	PK	H	11.77	52.49	74.00	21.51
4960.000	30.56	AV	H	11.77	42.33	54.00	11.67
4960.000	40.94	PK	V	11.77	52.71	74.00	21.29
4960.000	30.79	AV	V	11.77	42.56	54.00	11.44

Test Data(Ant1):**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	26.52	PK	H	31.71	58.23	74.00	15.77
2390.000	15.63	AV	H	31.71	47.34	54.00	6.66
2390.000	26.41	PK	V	31.71	58.12	74.00	15.88
2390.000	15.50	AV	V	31.71	47.21	54.00	6.79
4804.000	43.16	PK	H	11.19	54.35	74.00	19.65
4804.000	35.47	AV	H	11.19	46.66	54.00	7.34
4804.000	43.38	PK	V	11.19	54.57	74.00	19.43
4804.000	35.69	AV	V	11.19	46.88	54.00	7.12
Middle Channel: 2441 MHz							
4882.000	42.38	PK	H	11.48	53.86	74.00	20.14
4882.000	34.45	AV	H	11.48	45.93	54.00	8.07
4882.000	42.60	PK	V	11.48	54.08	74.00	19.92
4882.000	34.67	AV	V	11.48	46.15	54.00	7.85
High Channel: 2480 MHz							
2483.500	29.76	PK	H	32.19	61.95	74.00	12.05
2483.500	15.39	AV	H	32.19	47.58	54.00	6.42
2483.500	29.60	PK	V	32.19	61.79	74.00	12.21
2483.500	15.28	AV	V	32.19	47.47	54.00	6.53
4960.000	42.54	PK	H	11.77	54.31	74.00	19.69
4960.000	34.23	AV	H	11.77	46.00	54.00	8.00
4960.000	42.76	PK	V	11.77	54.53	74.00	19.47
4960.000	34.45	AV	V	11.77	46.22	54.00	7.78

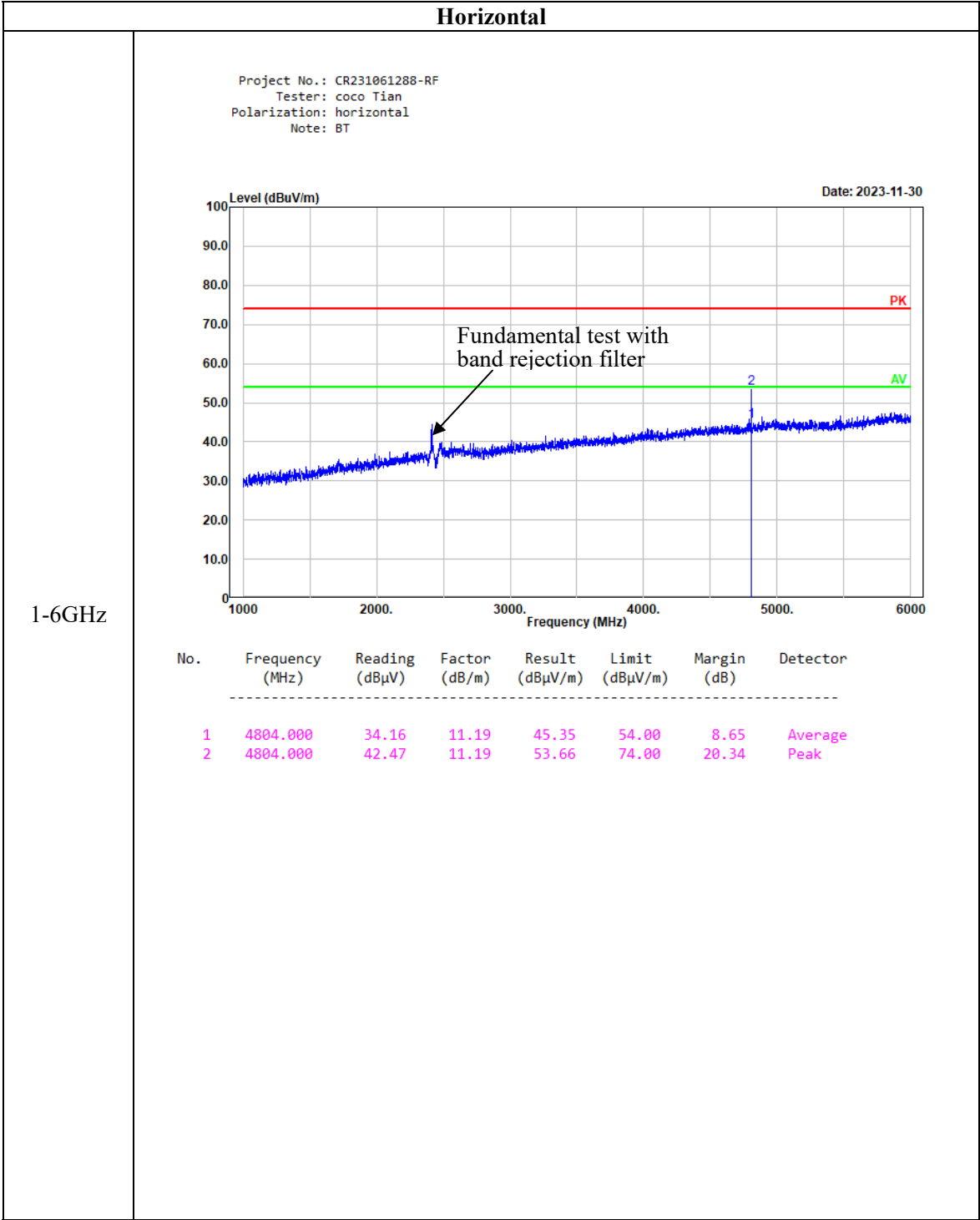
2EDR Mode ($\pi/4$ -DQPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	26.25	PK	H	31.71	57.96	74.00	16.04
2390.000	15.54	AV	H	31.71	47.25	54.00	6.75
2390.000	26.13	PK	V	31.71	57.84	74.00	16.16
2390.000	15.42	AV	V	31.71	47.13	54.00	6.87
4804.000	43.22	PK	H	11.19	54.41	74.00	19.59
4804.000	32.18	AV	H	11.19	43.37	54.00	10.63
4804.000	43.44	PK	V	11.19	54.63	74.00	19.37
4804.000	32.39	AV	V	11.19	43.58	54.00	10.42
Middle Channel: 2441 MHz							
4882.000	42.45	PK	H	11.48	53.93	74.00	20.07
4882.000	31.70	AV	H	11.48	43.18	54.00	10.82
4882.000	42.67	PK	V	11.48	54.15	74.00	19.85
4882.000	31.92	AV	V	11.48	43.40	54.00	10.60
High Channel: 2480 MHz							
2483.500	31.10	PK	H	32.19	63.29	74.00	10.71
2483.500	15.95	AV	H	32.19	48.14	54.00	5.86
2483.500	30.89	PK	V	32.19	63.08	74.00	10.92
2483.500	15.83	AV	V	32.19	48.02	54.00	5.98
4960.000	42.65	PK	H	11.77	54.42	74.00	19.58
4960.000	32.13	AV	H	11.77	43.90	54.00	10.10
4960.000	42.87	PK	V	11.77	54.64	74.00	19.36
4960.000	32.36	AV	V	11.77	44.13	54.00	9.87

3EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402				MHz			
2390.000	26.29	PK	H	31.71	58.00	74.00	16.00
2390.000	15.68	AV	H	31.71	47.39	54.00	6.61
2390.000	26.17	PK	V	31.71	57.88	74.00	16.12
2390.000	15.55	AV	V	31.71	47.26	54.00	6.74
4804.000	43.18	PK	H	11.19	54.37	74.00	19.63
4804.000	33.37	AV	H	11.19	44.56	54.00	9.44
4804.000	43.41	PK	V	11.19	54.60	74.00	19.40
4804.000	33.52	AV	V	11.19	44.71	54.00	9.29
Middle Channel: 2441				MHz			
4882.000	42.69	PK	H	11.48	54.17	74.00	19.83
4882.000	32.85	AV	H	11.48	44.33	54.00	9.67
4882.000	42.92	PK	V	11.48	54.40	74.00	19.60
4882.000	33.07	AV	V	11.48	44.55	54.00	9.45
High Channel: 2480				MHz			
2483.500	31.07	PK	H	32.19	63.26	74.00	10.74
2483.500	14.40	AV	H	32.19	46.59	54.00	7.41
2483.500	30.94	PK	V	32.19	63.13	74.00	10.87
2483.500	14.28	AV	V	32.19	46.47	54.00	7.53
4960.000	43.12	PK	H	11.77	54.89	74.00	19.11
4960.000	33.23	AV	H	11.77	45.00	54.00	9.00
4960.000	43.35	PK	V	11.77	55.12	74.00	18.88
4960.000	33.46	AV	V	11.77	45.23	54.00	8.77

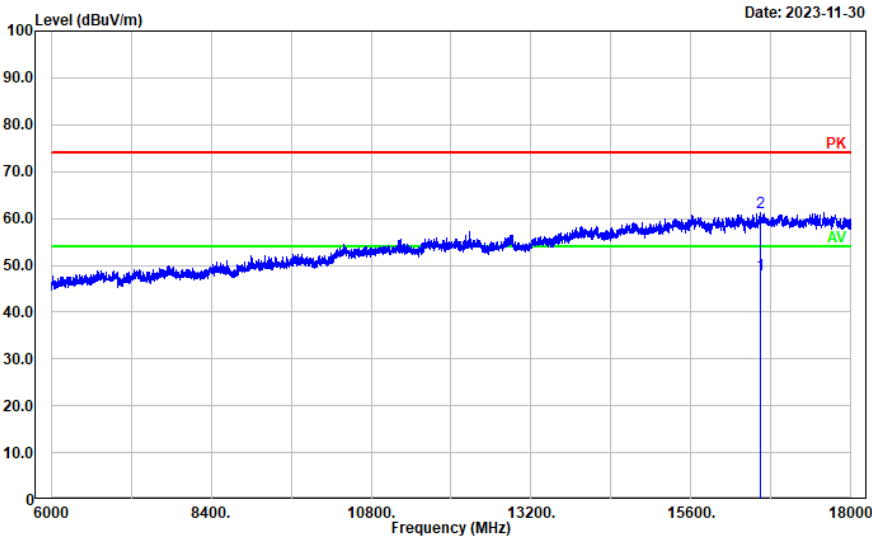
Listed with the worst harmonic margin test plot (BDR Low channel)
Ant0



Horizontal

6-18GHz

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: horizontal
Note: BT

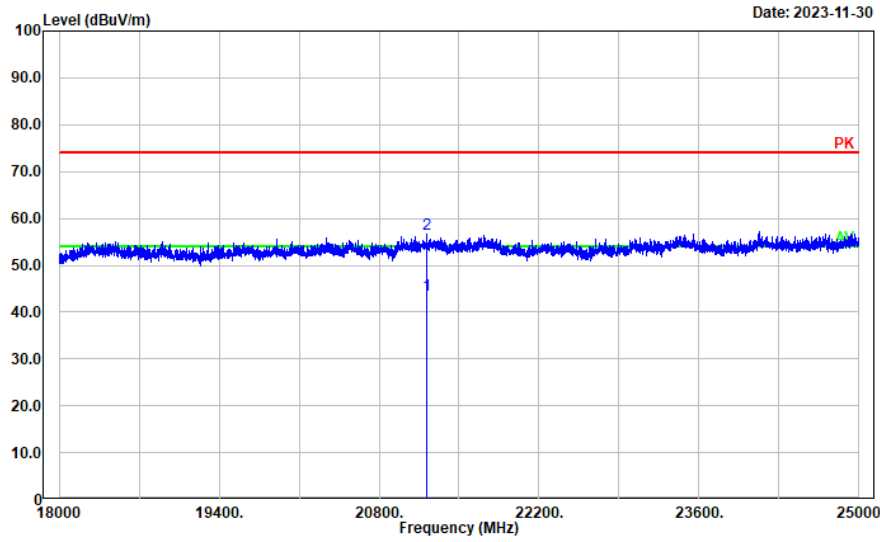


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	16638.930	21.17	26.69	47.86	54.00	6.14	Average
2	16638.930	34.65	26.69	61.34	74.00	12.66	Peak

Horizontal

18-25GHz

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: Horizontal
Note: BT

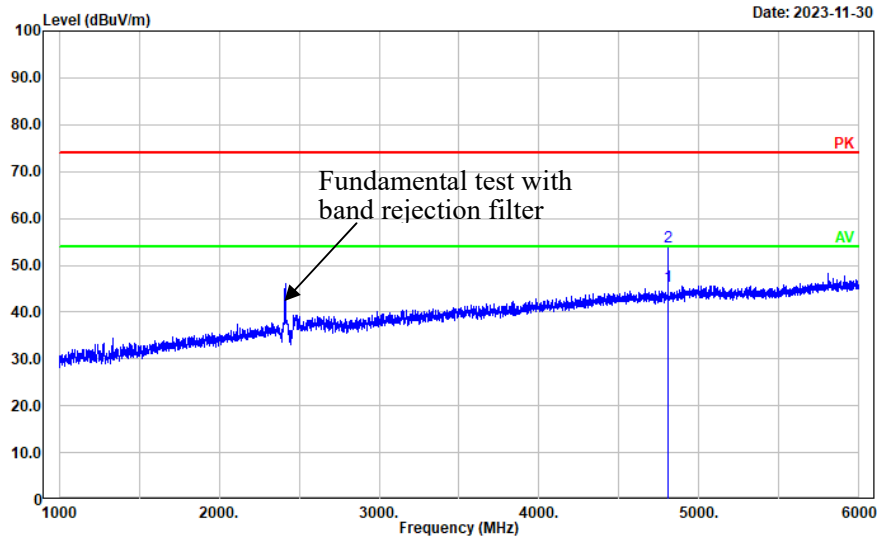


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21216.440	38.68	4.84	43.52	54.00	10.48	Average
2	21216.440	51.73	4.84	56.57	74.00	17.43	Peak

Vertical

1-6GHz

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: vertical
Note: BT

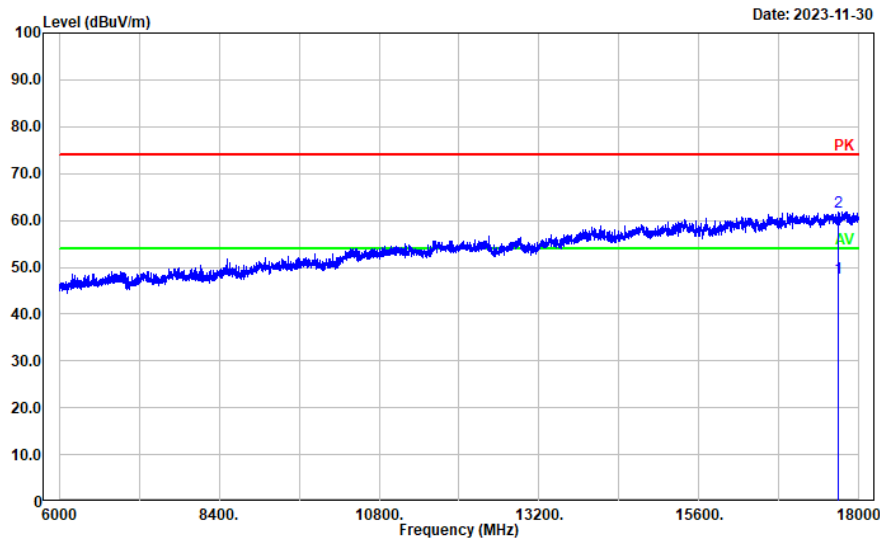


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4804.000	34.40	11.19	45.59	54.00	8.41	Average
2	4804.000	42.74	11.19	53.93	74.00	20.07	Peak

Vertical

6-18GHz

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: vertical
Note: BT

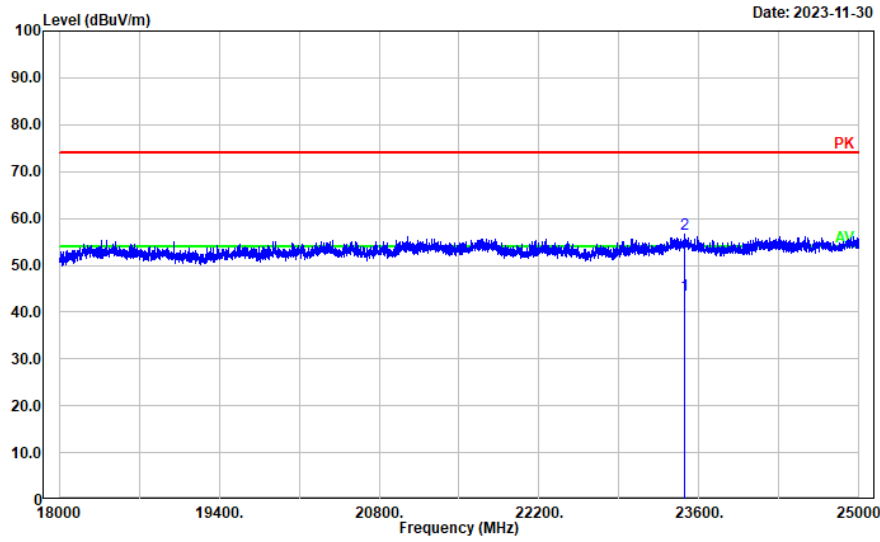


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	17683.140	16.58	31.15	47.73	54.00	6.27	Average
2	17683.140	30.64	31.15	61.79	74.00	12.21	Peak

Vertical

18-25GHz

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: vertical
Note: BT



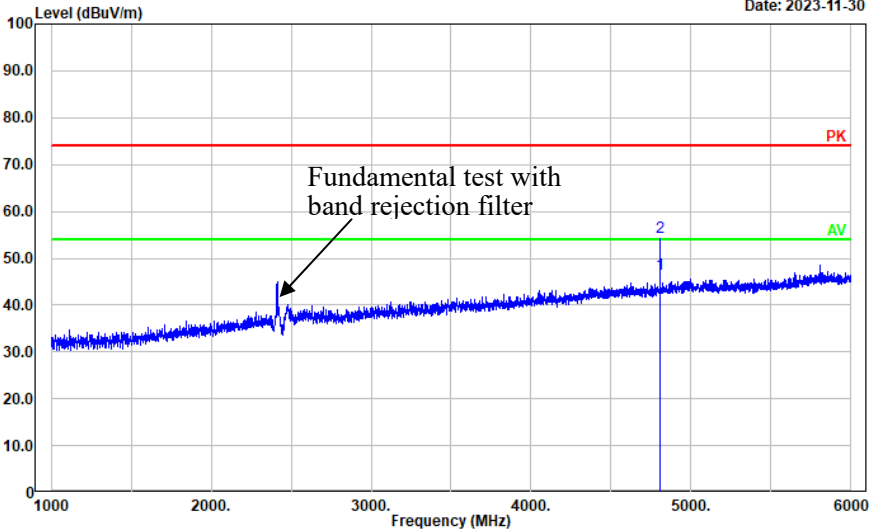
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	23470.890	38.23	5.39	43.62	54.00	10.38	Average
2	23470.890	51.12	5.39	56.51	74.00	17.49	Peak

Ant1

Horizontal

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: horizontal
Note: BT

Date: 2023-11-30



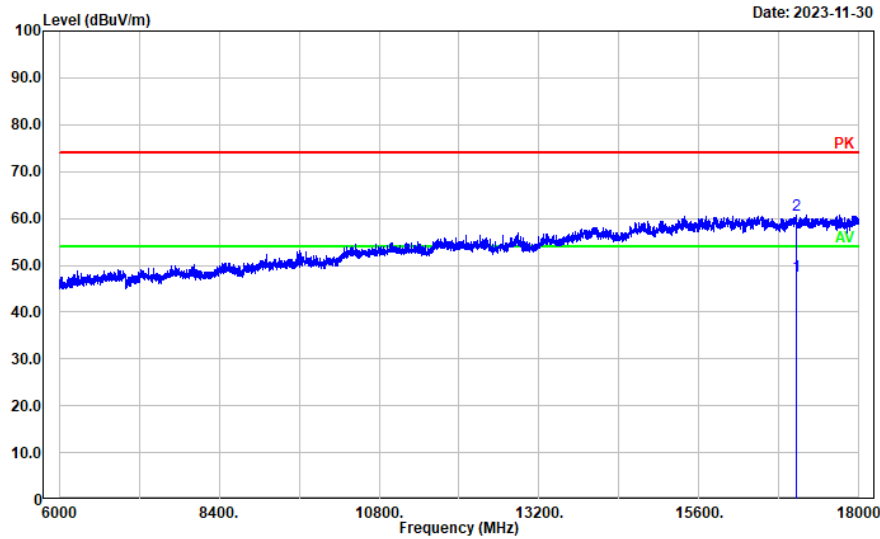
1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4804.000	35.47	11.19	46.66	54.00	7.34	Average
2	4804.000	43.16	11.19	54.35	74.00	19.65	Peak

Horizontal

6-18GHz

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: horizontal
Note: BT

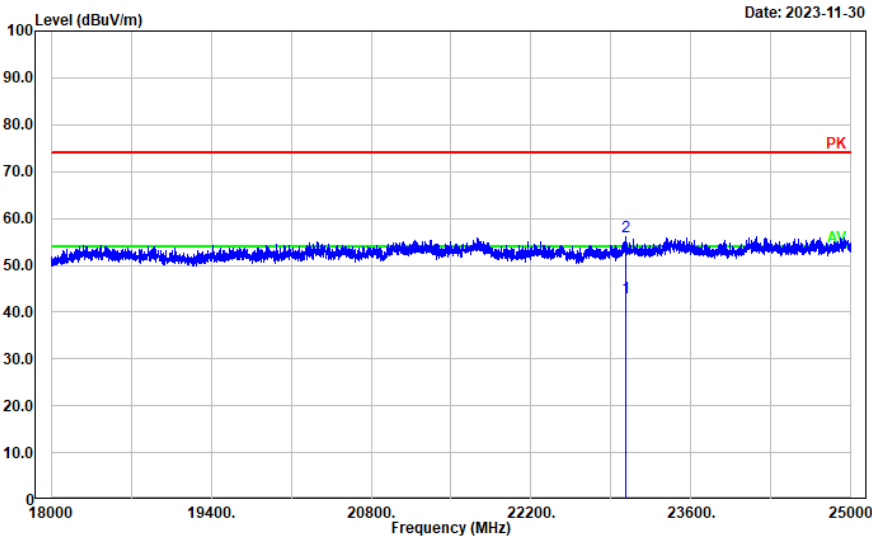


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	17063.810	19.31	28.36	47.67	54.00	6.33	Average
2	17063.810	32.38	28.36	60.74	74.00	13.26	Peak

Horizontal

18-25GHz

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: Horizontal
Note: BT

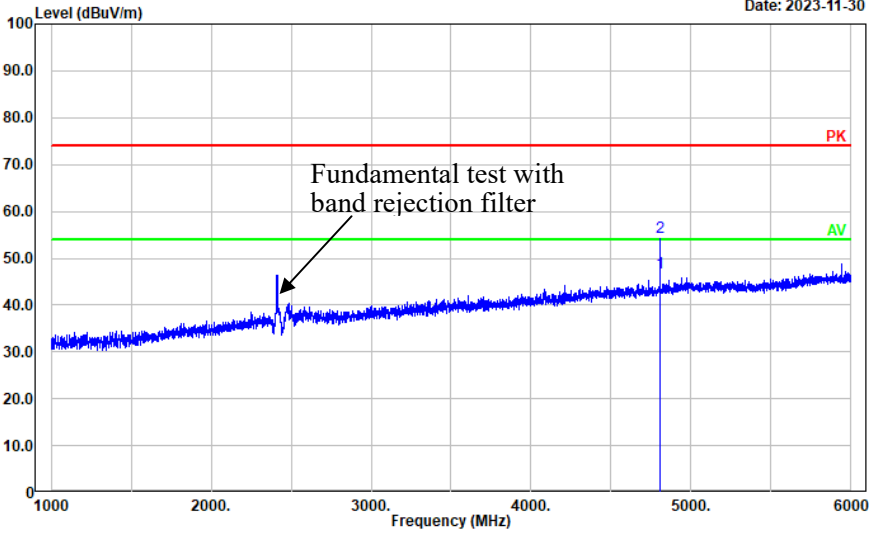


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	23032.610	37.40	5.62	43.02	54.00	10.98	Average
2	23032.610	50.37	5.62	55.99	74.00	18.01	Peak

Vertical

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: vertical
Note: BT

Date: 2023-11-30

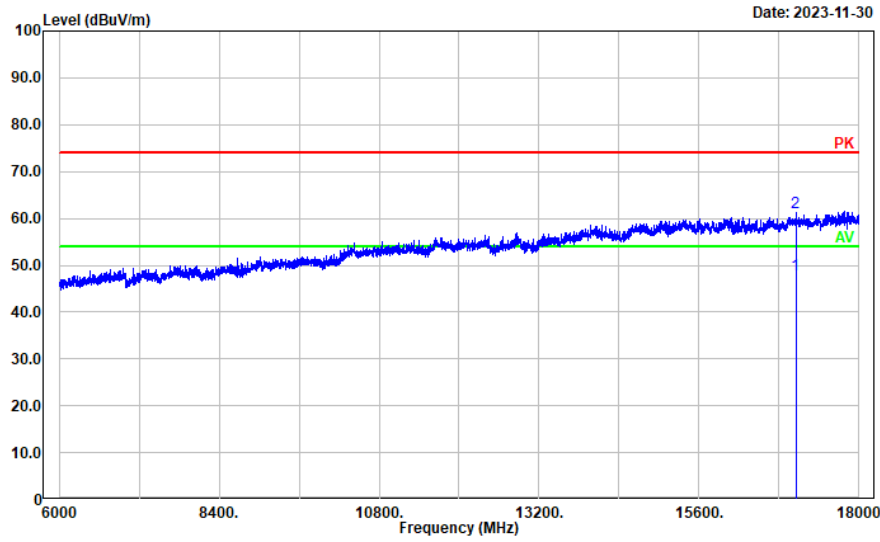


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4804.000	35.69	11.19	46.88	54.00	7.12	Average
2	4804.000	43.38	11.19	54.57	74.00	19.43	Peak

Vertical

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: vertical
Note: BT

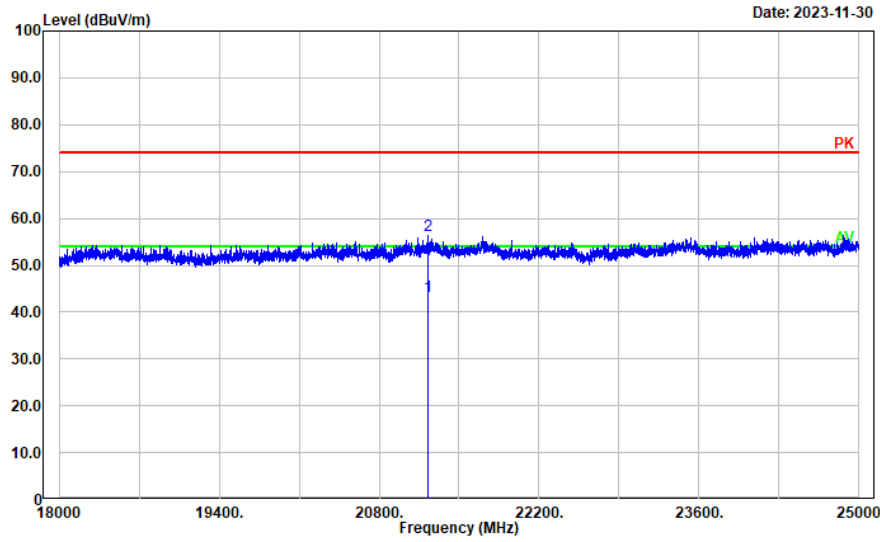


6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	17049.410	19.57	28.29	47.86	54.00	6.14	Average
2	17049.410	32.94	28.29	61.23	74.00	12.77	Peak

Vertical

Project No.: CR231061288-RF
Tester: coco Tian
Polarization: vertical
Note: BT



18-25GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	21224.850	38.44	4.84	43.28	54.00	10.72	Average
2	21224.850	51.44	4.84	56.28	74.00	17.72	Peak

4.3 20 dB Emission Bandwidth

Serial Number:	2CGM-1	Test Date:	2023/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	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:

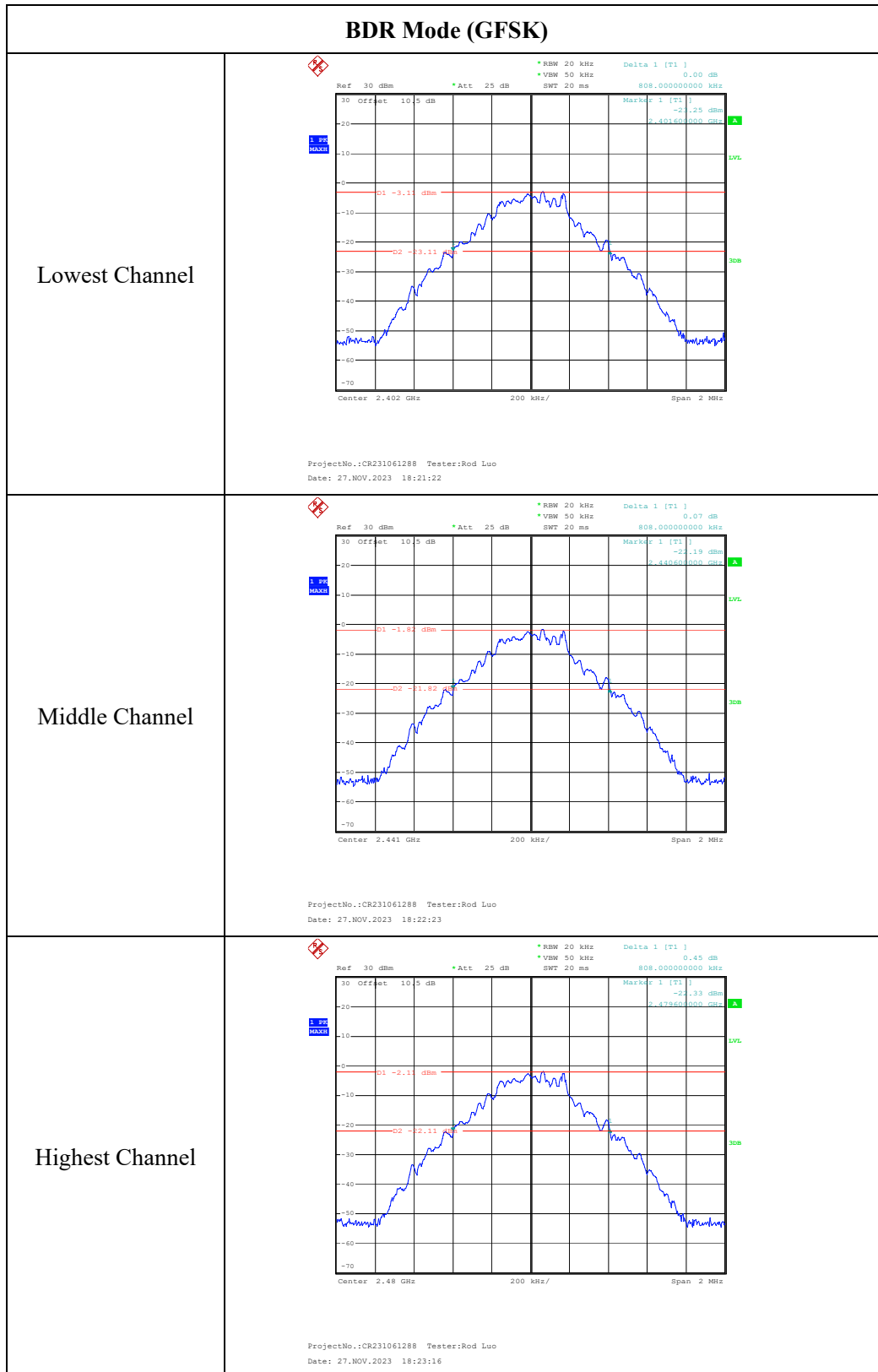
Ant0

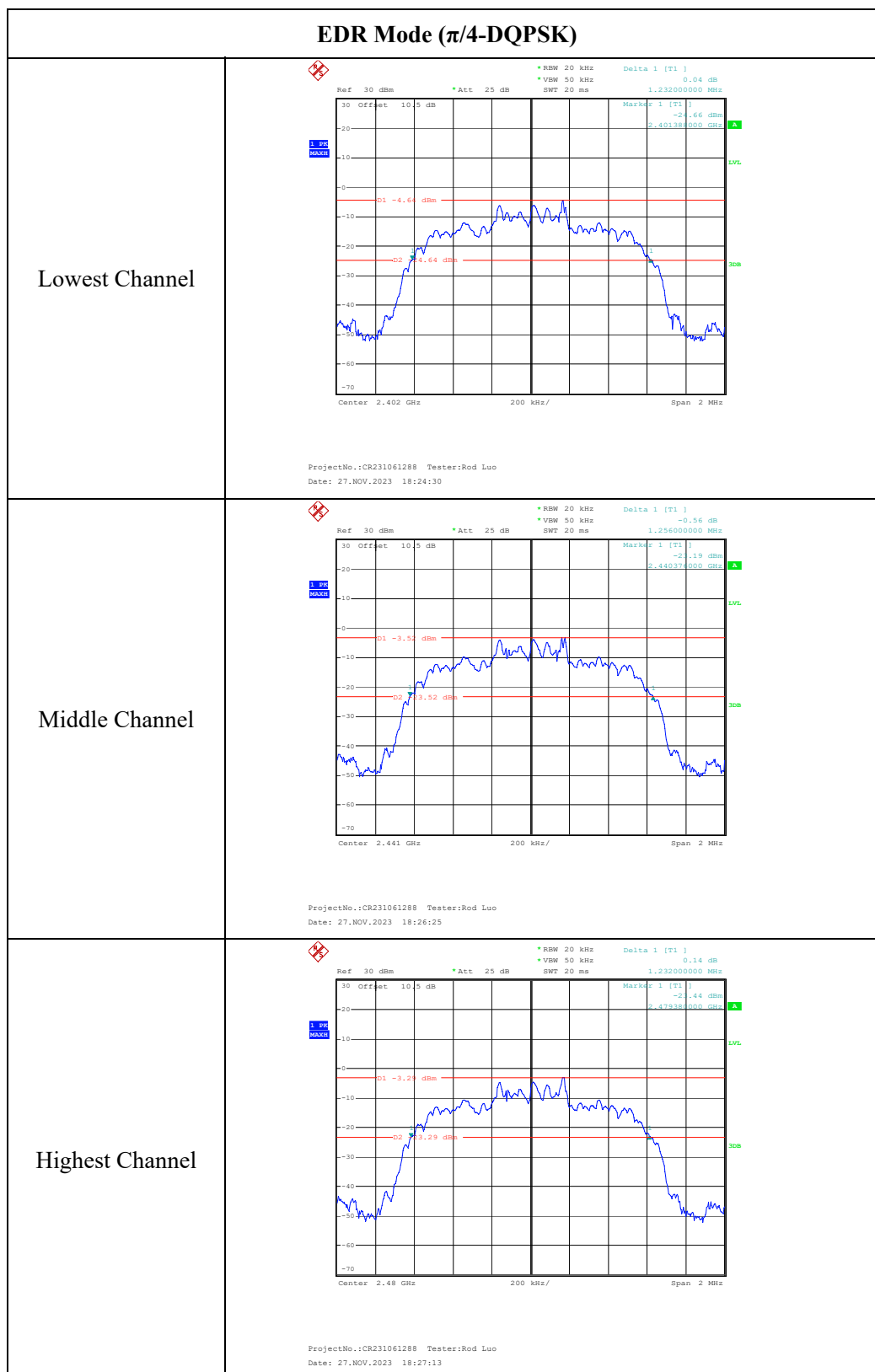
Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Lowest	2402	0.808
	Middle	2441	0.808
	Highest	2480	0.808
EDR Mode ($\pi/4$ -DQPSK)	Lowest	2402	1.232
	Middle	2441	1.256
	Highest	2480	1.232
EDR Mode (8DPSK)	Lowest	2402	1.252
	Middle	2441	1.252
	Highest	2480	1.252

Ant1

Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Lowest	2402	0.804
	Middle	2441	0.804
	Highest	2480	0.804
EDR Mode ($\pi/4$ -DQPSK)	Lowest	2402	1.236
	Middle	2441	1.228
	Highest	2480	1.228
EDR Mode (8DPSK)	Lowest	2402	1.248
	Middle	2441	1.252
	Highest	2480	1.252

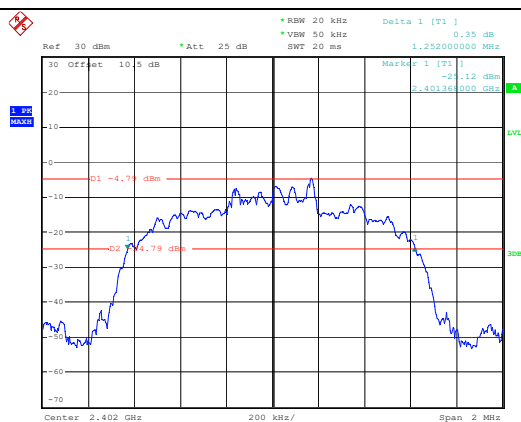
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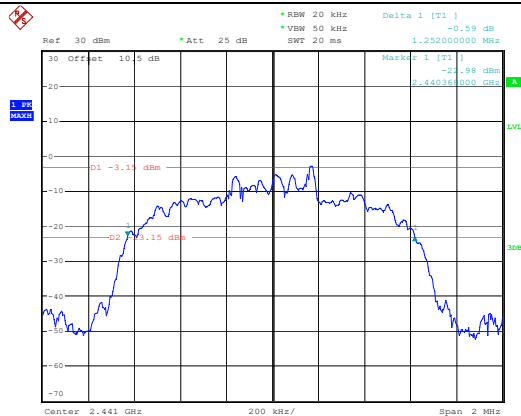
EDR Mode (8DPSK)

Lowest Channel



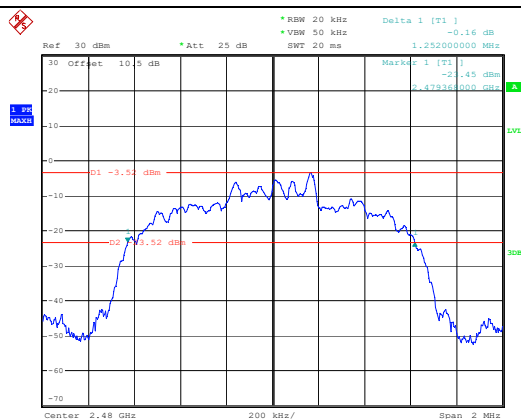
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:28:22

Middle Channel



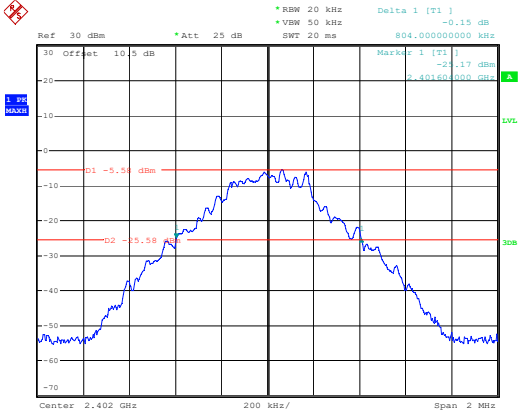
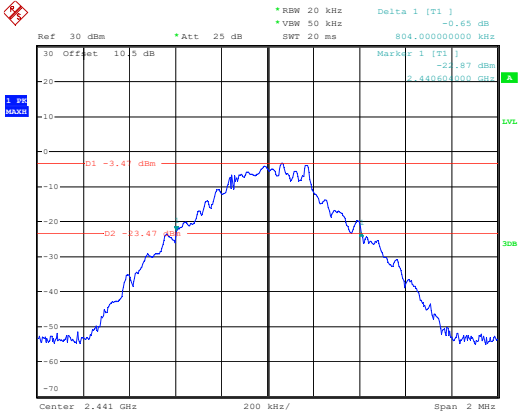
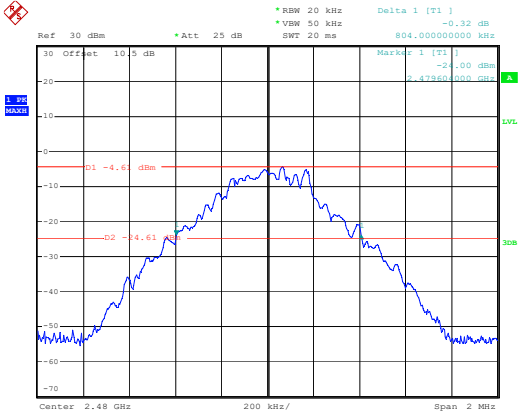
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:29:20

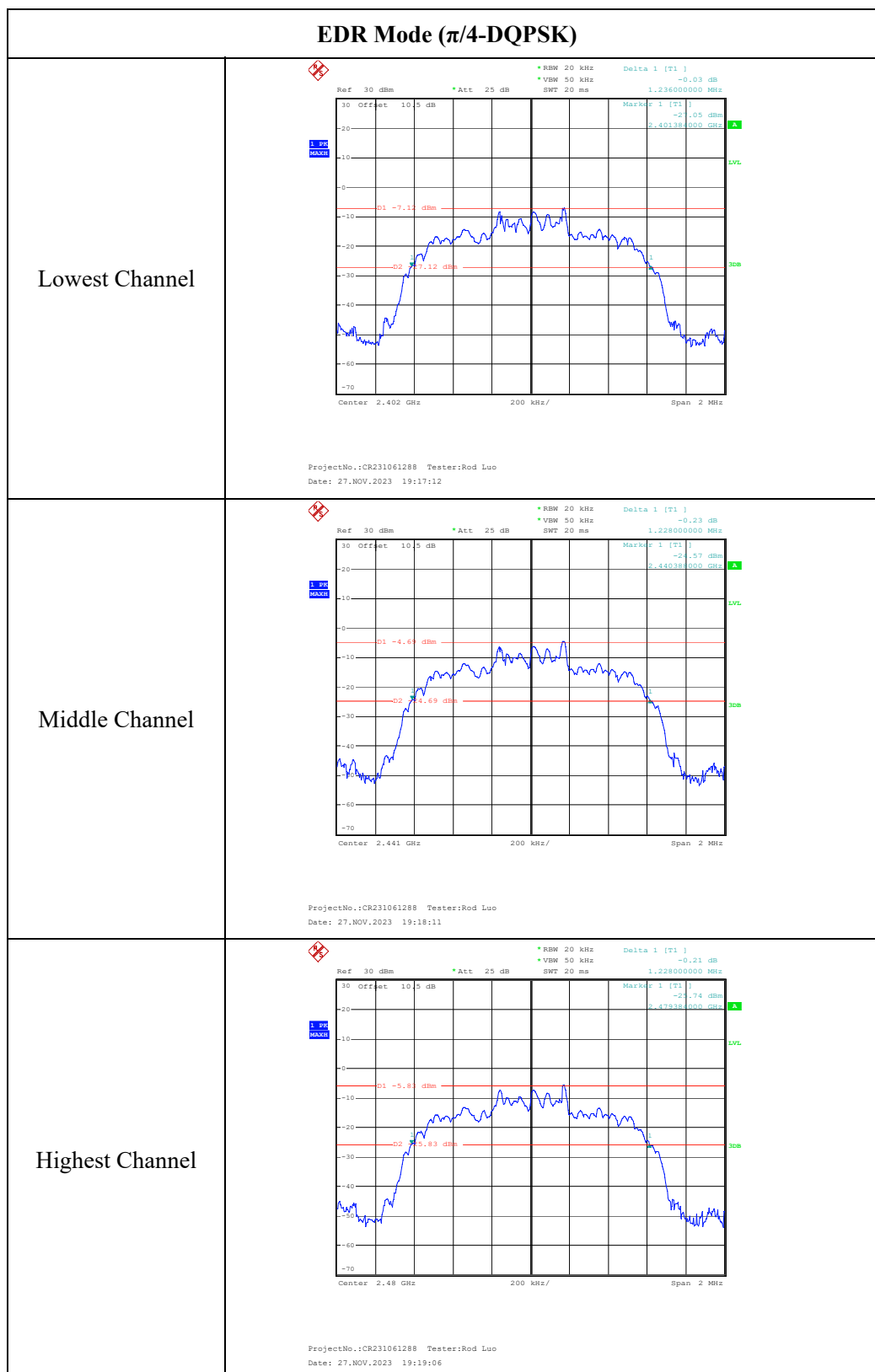
Highest Channel



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:30:10

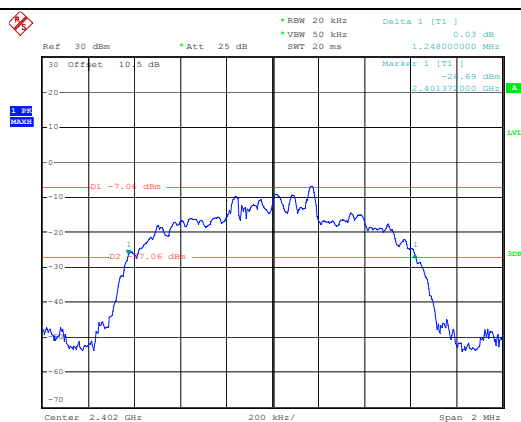
Ant1

BDR Mode (GFSK)	
Lowest Channel	 Ref: 30 dBm, Att: 25 dB, RBW: 20 kHz, VSW: 50 kHz, SWT: 20 ms, Delta 1 [T1]: -0.15 dB, 804.00000000 kHz Marker 1 [T1]: -21.17 dBm, 2.402600000 GHz D1: -5.58 dBm, D2: -25.58 dBm Center: 2.402 GHz, 200 kHz/ Span: 2 MHz ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:13:20
Middle Channel	 Ref: 30 dBm, Att: 25 dB, RBW: 20 kHz, VSW: 50 kHz, SWT: 20 ms, Delta 1 [T1]: -0.65 dB, 804.00000000 kHz Marker 1 [T1]: -21.87 dBm, 2.440600000 GHz D1: -3.47 dBm, D2: -23.47 dBm Center: 2.441 GHz, 200 kHz/ Span: 2 MHz ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:14:38
Highest Channel	 Ref: 30 dBm, Att: 25 dB, RBW: 20 kHz, VSW: 50 kHz, SWT: 20 ms, Delta 1 [T1]: -0.32 dB, 804.00000000 kHz Marker 1 [T1]: -24.00 dBm, 2.478600000 GHz D1: -4.61 dBm, D2: -24.61 dBm Center: 2.48 GHz, 200 kHz/ Span: 2 MHz ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:15:43



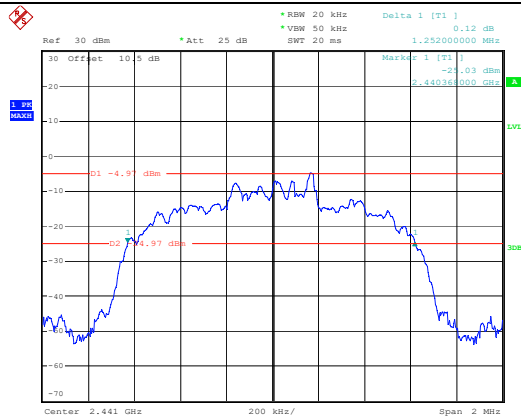
EDR Mode (8DPSK)

Lowest Channel



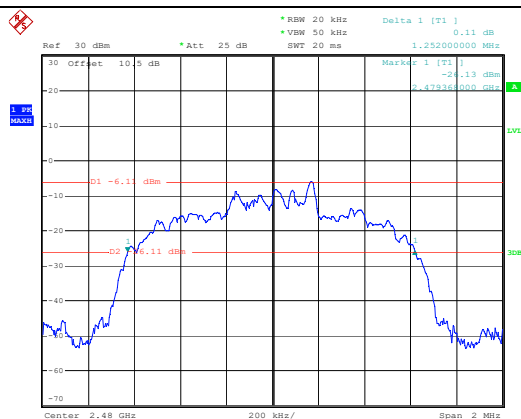
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:20:18

Middle Channel



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:21:33

Highest Channel



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:22:21

4.4 Channel Separation

Serial Number:	2CGM-1	Test Date:	2023/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	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:

Ant0

Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
BDR Mode (GFSK)	2402	1.002	0.539
	2441	1.002	0.539
	2480	1.002	0.539
EDR Mode ($\pi/4$ -DQPSK)	2402	0.996	0.821
	2441	0.996	0.837
	2480	0.996	0.821
EDR Mode (8DPSK)	2402	1.002	0.835
	2441	0.996	0.835
	2480	1.002	0.835

Ant1

Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
BDR Mode (GFSK)	2402	1.002	0.536
	2441	1.002	0.536
	2480	1.002	0.536
EDR Mode ($\pi/4$ -DQPSK)	2402	1.002	0.824
	2441	1.002	0.819
	2480	0.996	0.819
EDR Mode (8DPSK)	2402	1.002	0.832
	2441	1.002	0.835
	2480	1.002	0.835

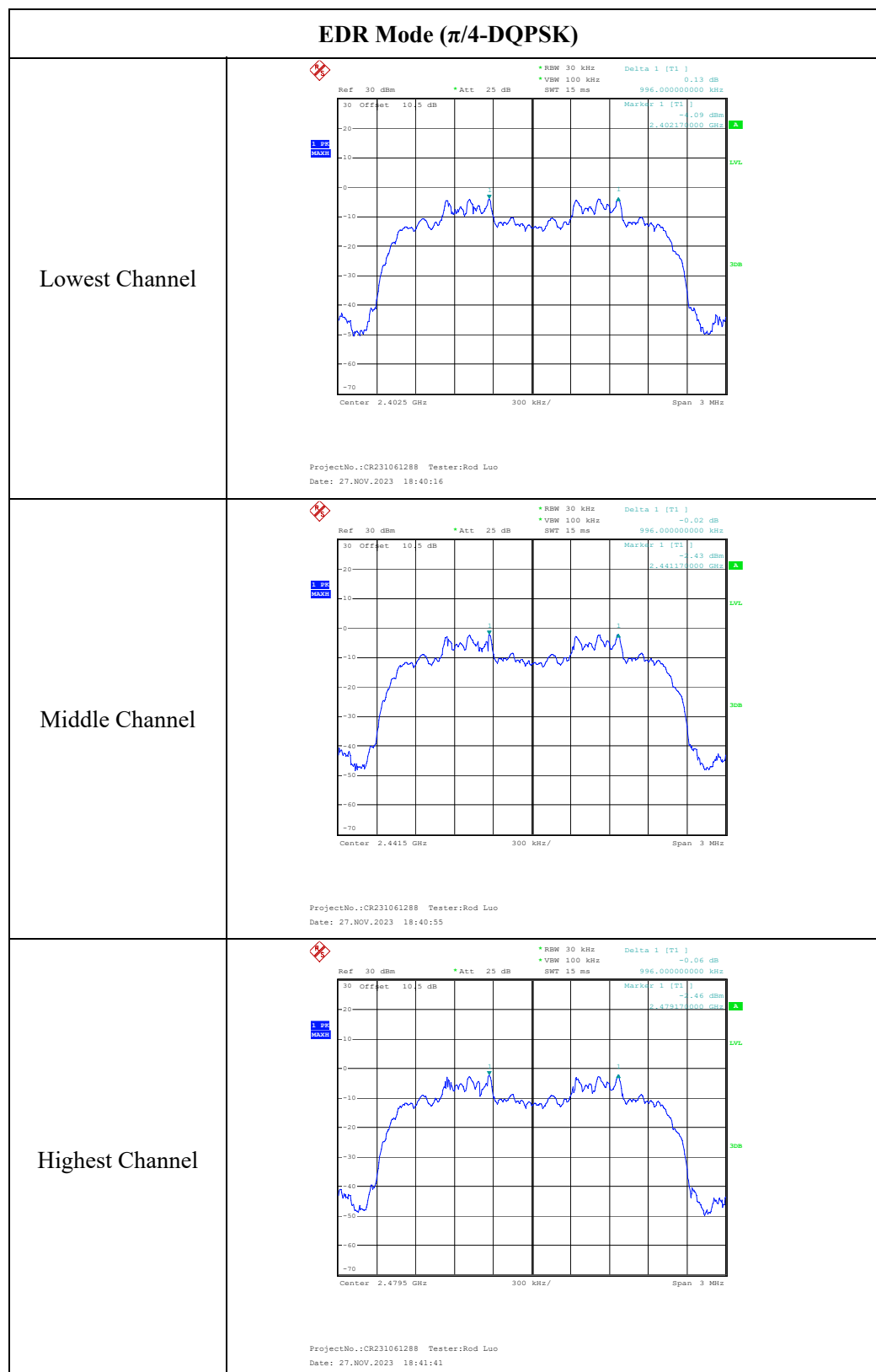
BDR Mode (GFSK)

Channel	Center Frequency (GHz)	Span (MHz)	Delta 1 (T1) (dB)	Delta 2 (T2) (dB)
Lowest Channel	2.4025	3	0.11	-0.72
Middle Channel	2.4415	3	0.08	-0.13
Highest Channel	2.4795	3	0.23	-0.18

ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:38:08

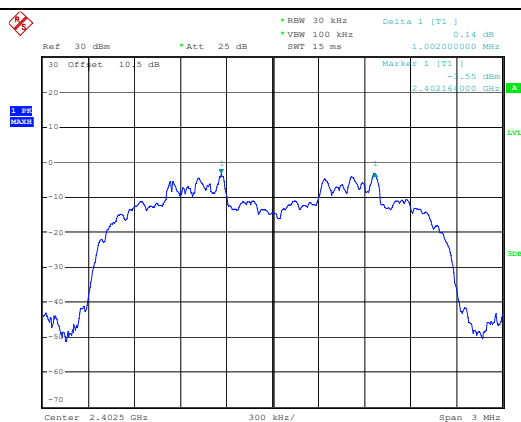
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:38:36

ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:39:13



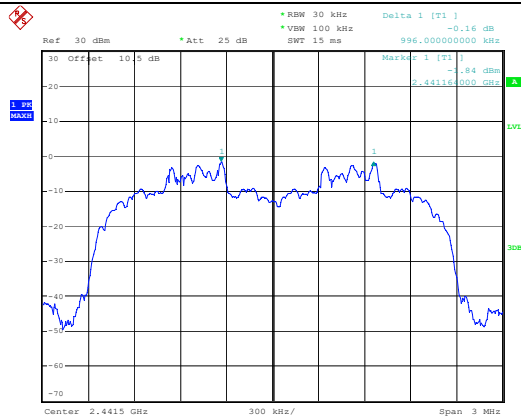
EDR Mode (8DPSK)

Lowest Channel



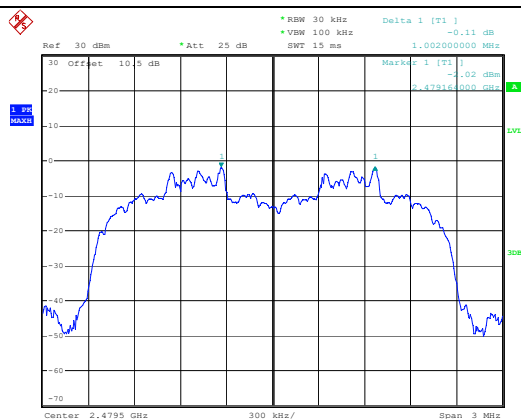
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:42:41

Middle Channel

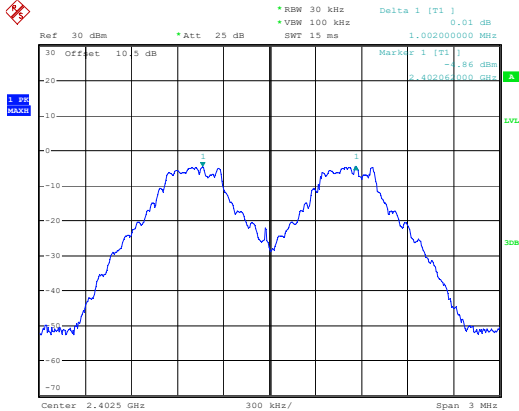
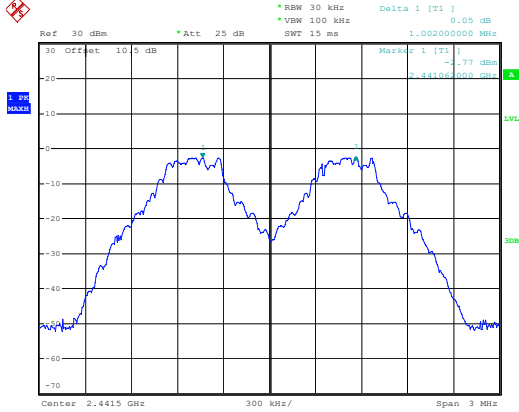
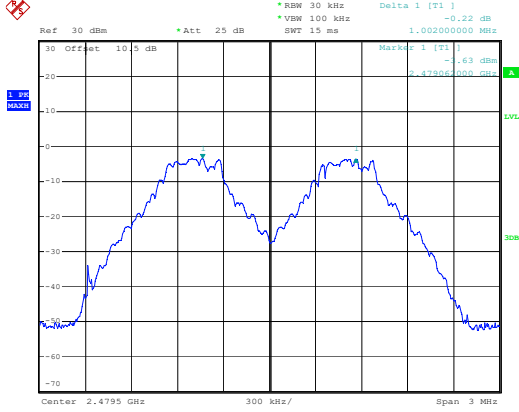


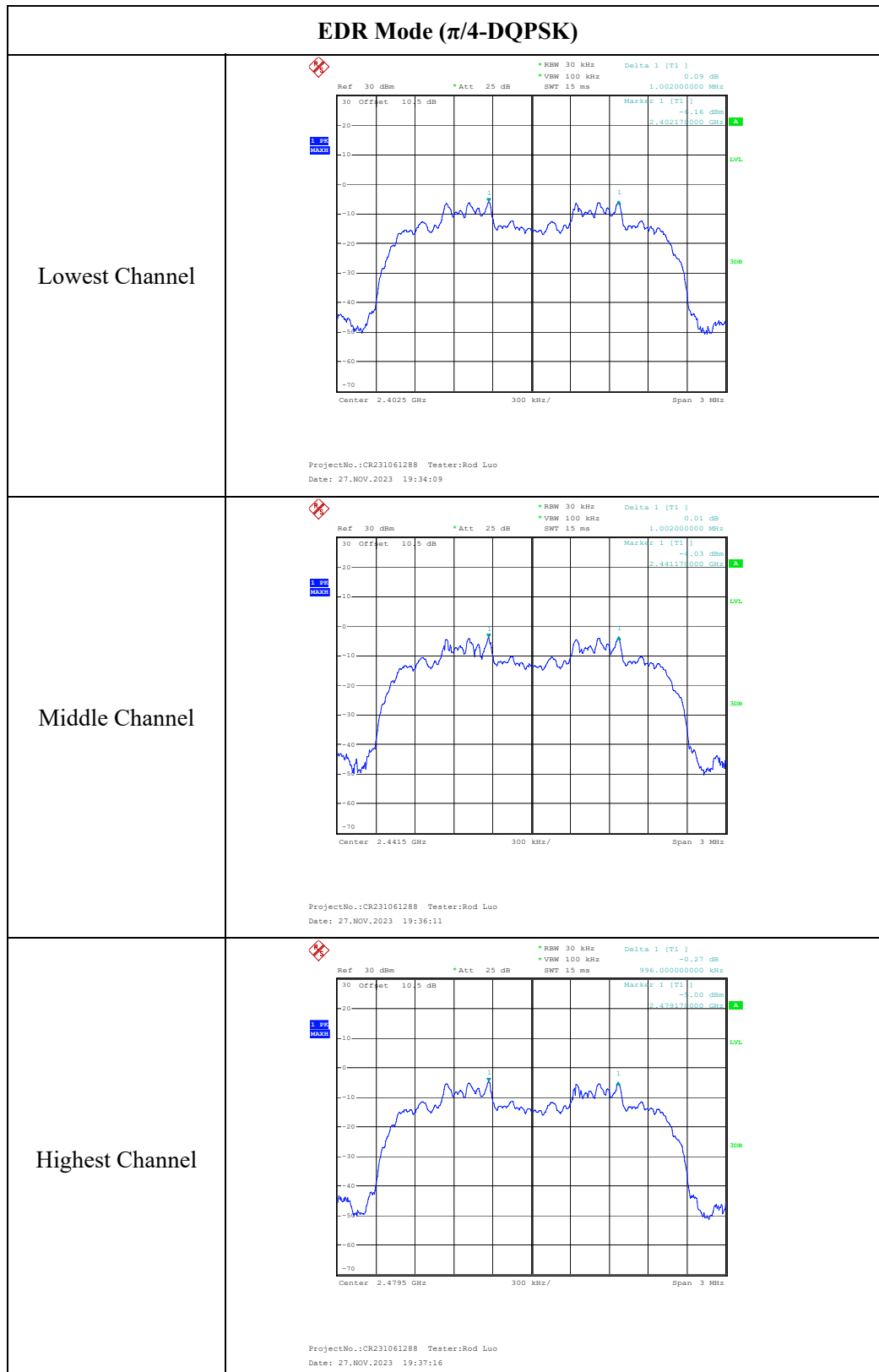
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:44:04

Highest Channel



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:44:54

BDR Mode (GFSK)	
Lowest Channel	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:30:24
Middle Channel	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:31:14
Highest Channel	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:32:16



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4.5 Number Of Hopping Frequency

Serial Number:	2CGM-1	Test Date:	2023/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	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

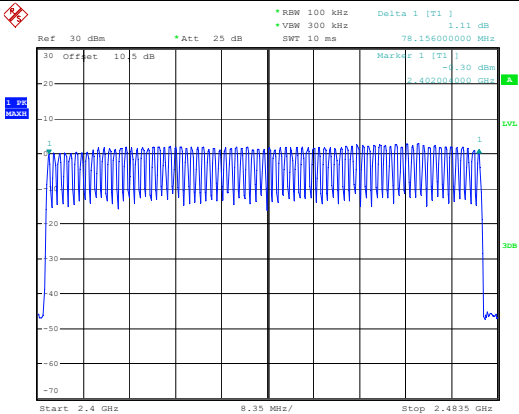
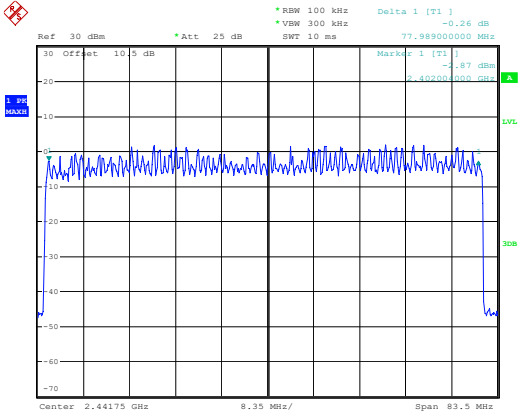
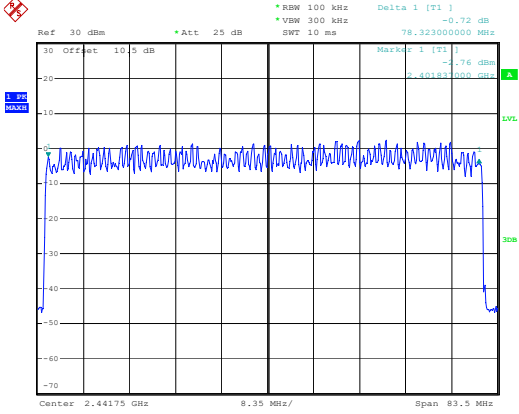
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Ant0&Ant1

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

Ant0

Number of Hopping Channel	
BDR Mode (GFSK)	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 18:46:34
EDR Mode ($\pi/4$ -DQPSK)	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 18:48:48
EDR Mode (8DPSK)	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 18:52:21

Number of Hopping Channel

*RBW 100 kHz Delta 1 [T1] 0.85 dB
 *VBW 300 kHz
 Ref 30 dBm Att 25 dB SWT 10 ms 76.15600000 MHz

Marker 1 [T1]
 -1.93 dBm
 2.4835 GHz

Start 2.4 GHz 8.35 MHz/ Stop 2.4835 GHz

[illegible]

*BSW 100 kHz Delta 1 (T2) 0.92 dB
 *VVM 300 kHz 77.989000000 MHz
 Ref 30 dBm Att 25 dB SWT 10 ms

30 Offset 10.5 dB
 Markers 1 (T1) -1.08 dBm 2.402173494 GHz

1 99 MAXH

Center 2.44175 GHz Span 83.5 MHz
 8.35 MHz/

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4.6 Time Of Occupancy (Dwell Time)

Serial Number:	2CGM-1	Test Date:	2023/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	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:

Ant0

Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.376	0.120	0.400
	DH3	2441	1.632	0.261	0.400
	DH5	2441	2.895	0.309	0.400
EDR Mode ($\pi/4$ -DQPSK)	2DH1	2441	0.384	0.123	0.400
	2DH3	2441	1.638	0.262	0.400
	2DH5	2441	2.900	0.309	0.400
EDR Mode (8DPSK)	3DH1	2441	0.384	0.123	0.400
	3DH3	2441	1.638	0.262	0.400
	3DH5	2441	2.905	0.310	0.400
Note: DH1:Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s DH3:Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s DH5:Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s					

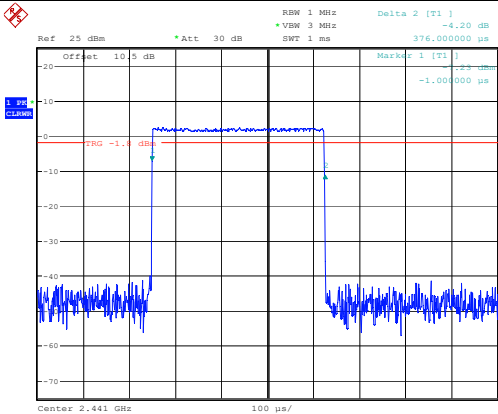
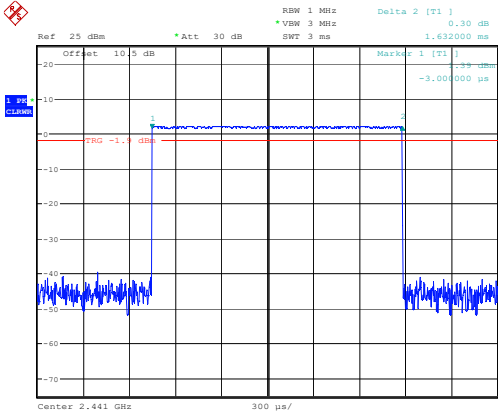
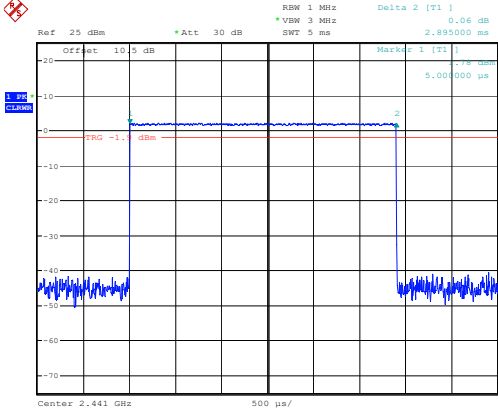
Ant1

Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.375	0.120	0.400
	DH3	2441	1.635	0.262	0.400
	DH5	2441	2.895	0.309	0.400
EDR Mode ($\pi/4$ -DQPSK)	2DH1	2441	0.384	0.123	0.400
	2DH3	2441	1.638	0.262	0.400
	2DH5	2441	2.900	0.309	0.400
EDR Mode (8DPSK)	3DH1	2441	0.384	0.123	0.400
	3DH3	2441	1.638	0.262	0.400
	3DH5	2441	2.905	0.310	0.400

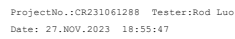
Note:

DH1:Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 sDH3:Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 sDH5:Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s

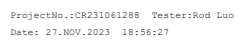
Ant0

BDR Mode (GFSK)	
DH1:	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 18:53:48
DH3:	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 18:54:24
DH5:	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 18:54:58

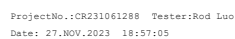
2DH1:



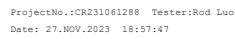
2DH3:



2DH5:



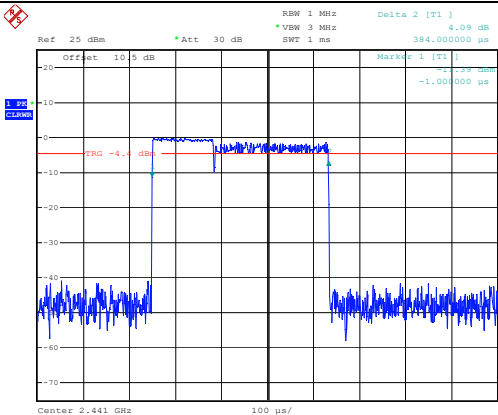
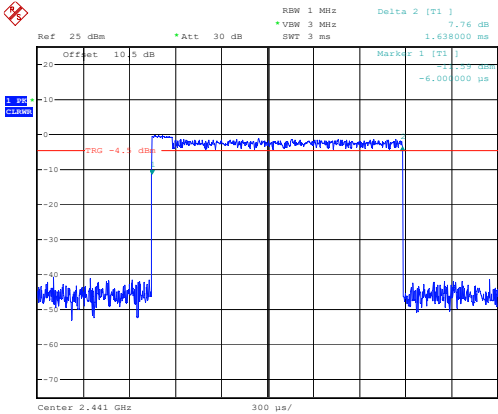
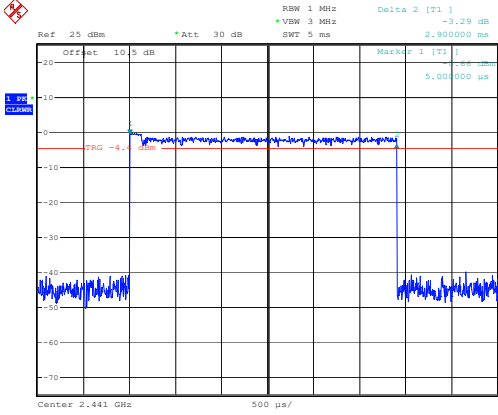
3DH1:



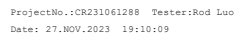
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:58:27

ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:59:10

DH1:	ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:01:25
DH3:	ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:02:02
DH5:	ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:02:41

EDR Mode ($\pi/4$ -DQPSK)	
2DH1:	 Ref: 25 dBm *Att: 30 dB *VSW: 3 MHz *SWT: 3 ms Delta 2 [T1] 4.09 dB 384.000000 us Offset: 10.5 dB Markers: 1 [T1] -1.000000 us TRG: -4.0 dBm Center: 2.441 GHz 100 ps/ ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:03:26
2DH3:	 Ref: 25 dBm *Att: 30 dB *VSW: 3 MHz *SWT: 3 ms Delta 2 [T1] 7.76 dB 1.638000 ms Offset: 10.5 dB Markers: 1 [T1] -6.000000 us TRG: -4.0 dBm Center: 2.441 GHz 300 ps/ ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:09:35
2DH5:	 Ref: 25 dBm *Att: 30 dB *VSW: 3 MHz *SWT: 5 ms Delta 2 [T1] -3.29 dB 2.900000 ms Offset: 10.5 dB Markers: 1 [T1] -3.29 dB TRG: -4.0 dBm Center: 2.441 GHz 500 ps/ ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:04:42

3DH1:



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:06:02

ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:06:36

4.7 Maximum Conducted Output Power

Serial Number:	2CGM-1	Test Date:	2023/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	26.1	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	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:

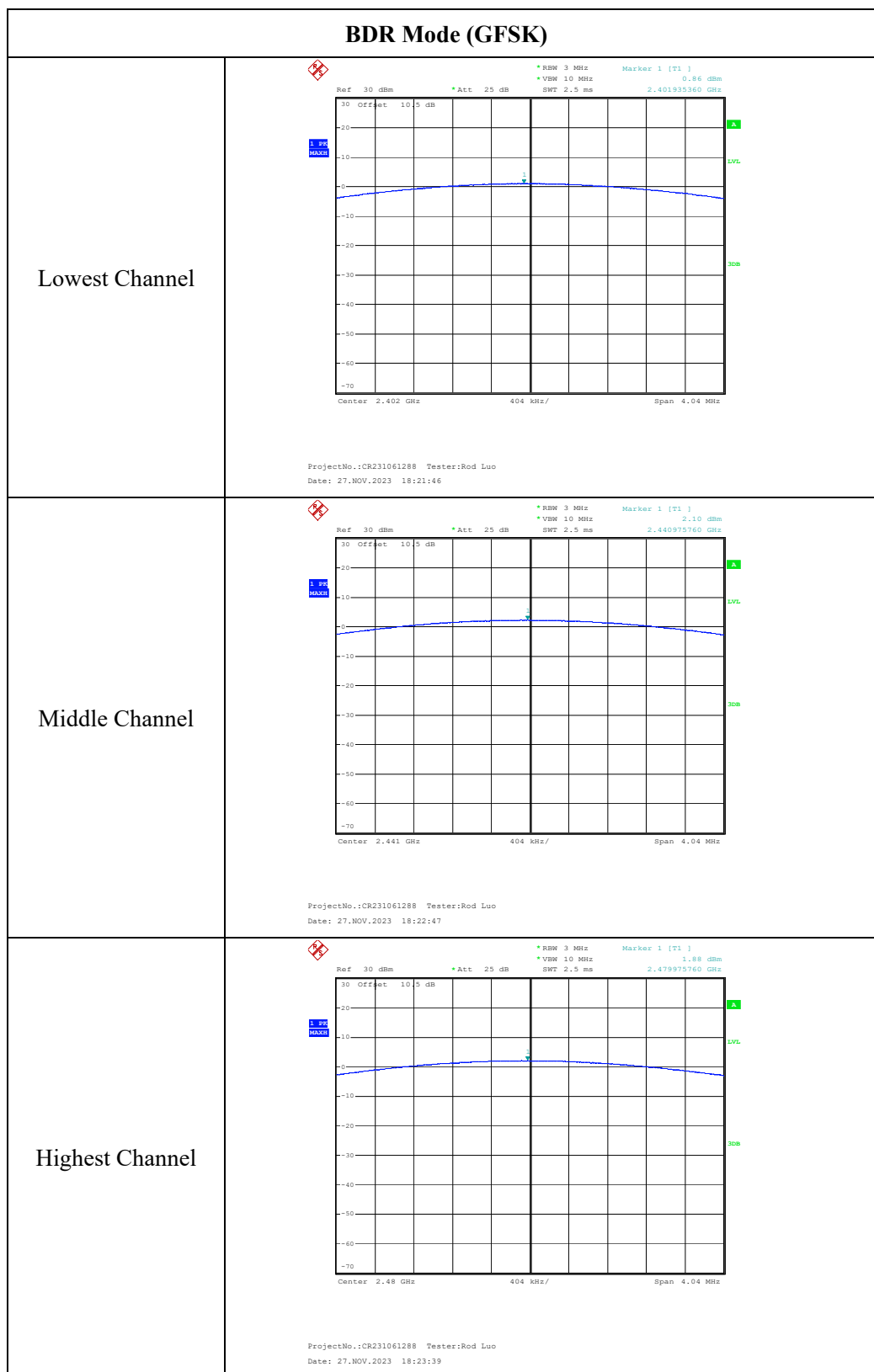
Ant0

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	0.86	21
	2441	2.1	21
	2480	1.88	21
EDR Mode ($\pi/4$ -DQPSK)	2402	-0.34	21
	2441	1.82	21
	2480	1.09	21
EDR Mode (8DPSK)	2402	-0.3	21
	2441	1.33	21
	2480	1.07	21

Ant1

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	-1.61	21
	2441	0.53	21
	2480	-0.66	21
EDR Mode ($\pi/4$ -DQPSK)	2402	-2.46	21
	2441	-0.37	21
	2480	-1.53	21
EDR Mode (8DPSK)	2402	-2.53	21
	2441	-0.4	21
	2480	-1.6	21

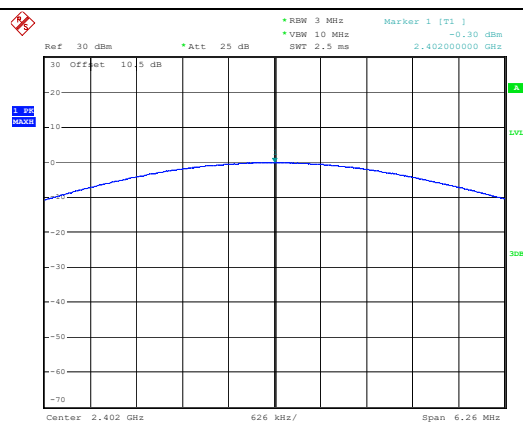
Ant0



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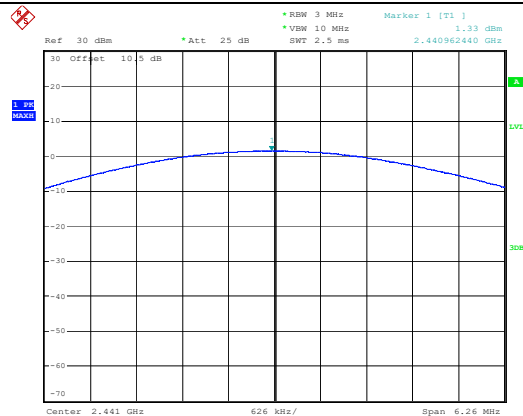
EDR Mode (8DPSK)

Lowest Channel



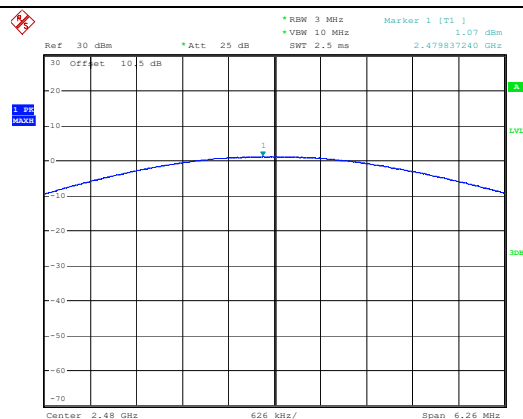
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:28:49

Middle Channel



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:29:44

Highest Channel



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:30:33

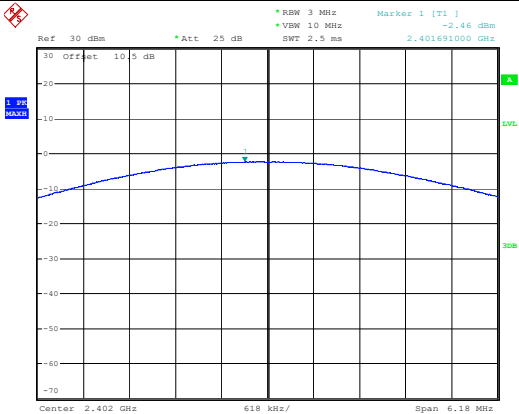
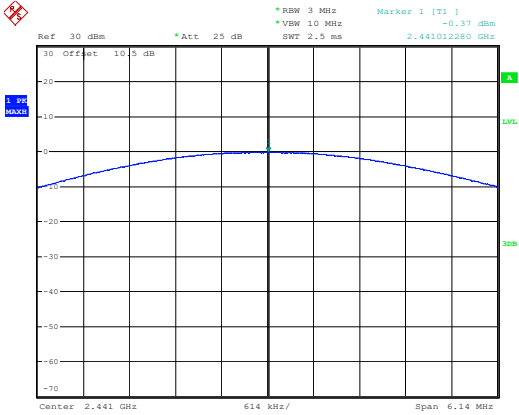
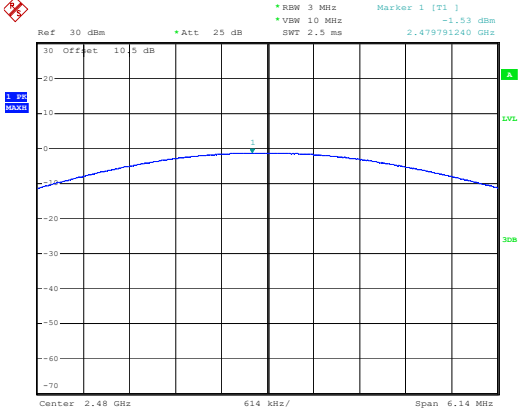
BDR Mode (GFSK)

Channel	Center Frequency (GHz)	Marker 1 [T1] (dBm)	Ref (dBm)	Att (dB)	RBW (MHz)	VBW (MHz)	SWT (ms)	Span (MHz)
Lowest Channel	2.402	-1.61	30	25	3	10	2.5	4.02
Middle Channel	2.441	0.53	30	25	3	10	2.5	4.02
Highest Channel	2.48	-0.66	30	25	3	10	2.5	4.02

ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:13:44

ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:15:02

ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:16:06

EDR Mode ($\pi/4$ -DQPSK)	
Lowest Channel	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:17:36
Middle Channel	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:18:35
Highest Channel	 ProjectNo.:CR231061288 Tester:Rod Luo Date: 27.NOV.2023 19:19:30

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4.8 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2CGM-1	Test Date:	2023/11/27~2023/12/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1~27.4	Relative Humidity: (%)	51~54	ATM Pressure: (kPa)	101
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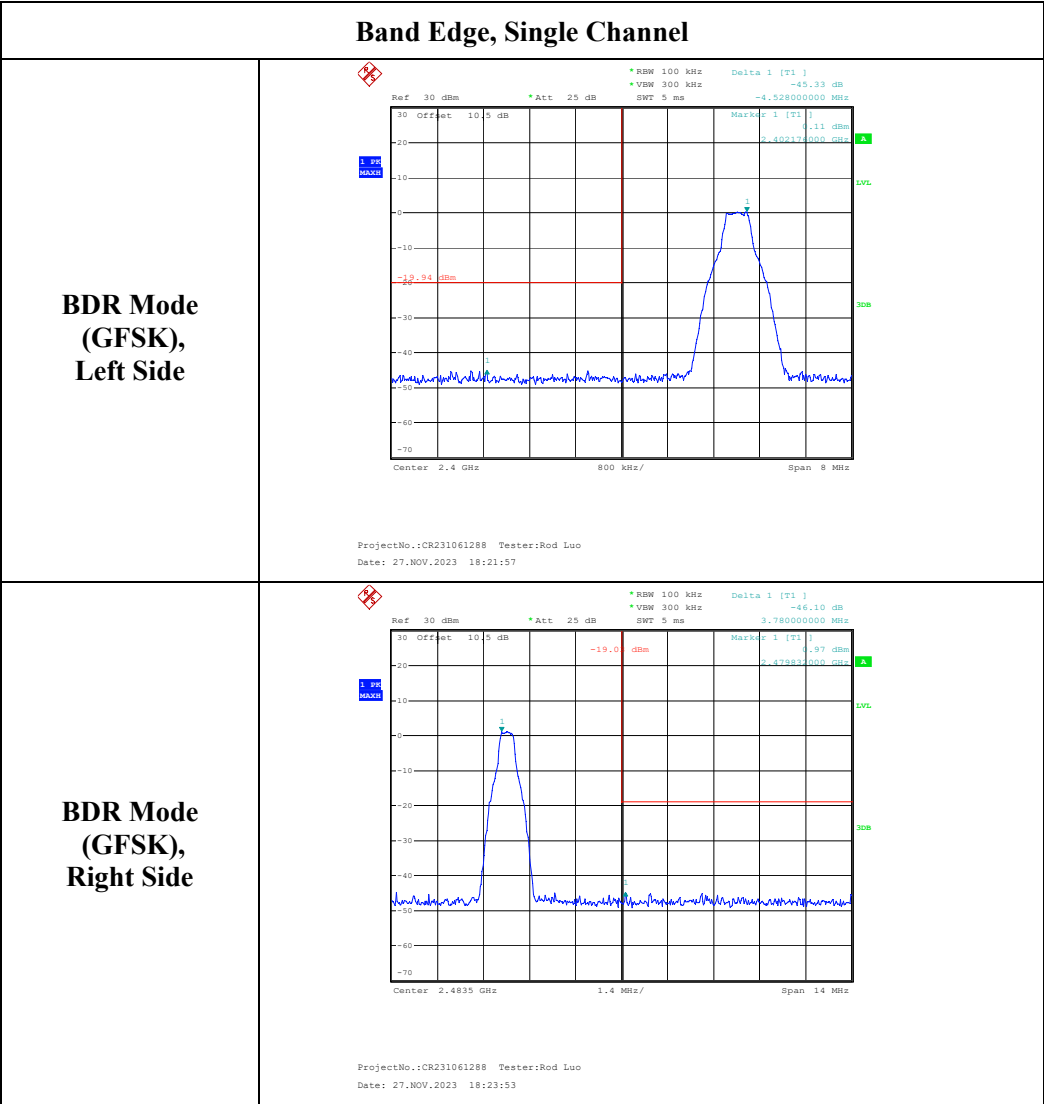
Test Equipment List and Details:

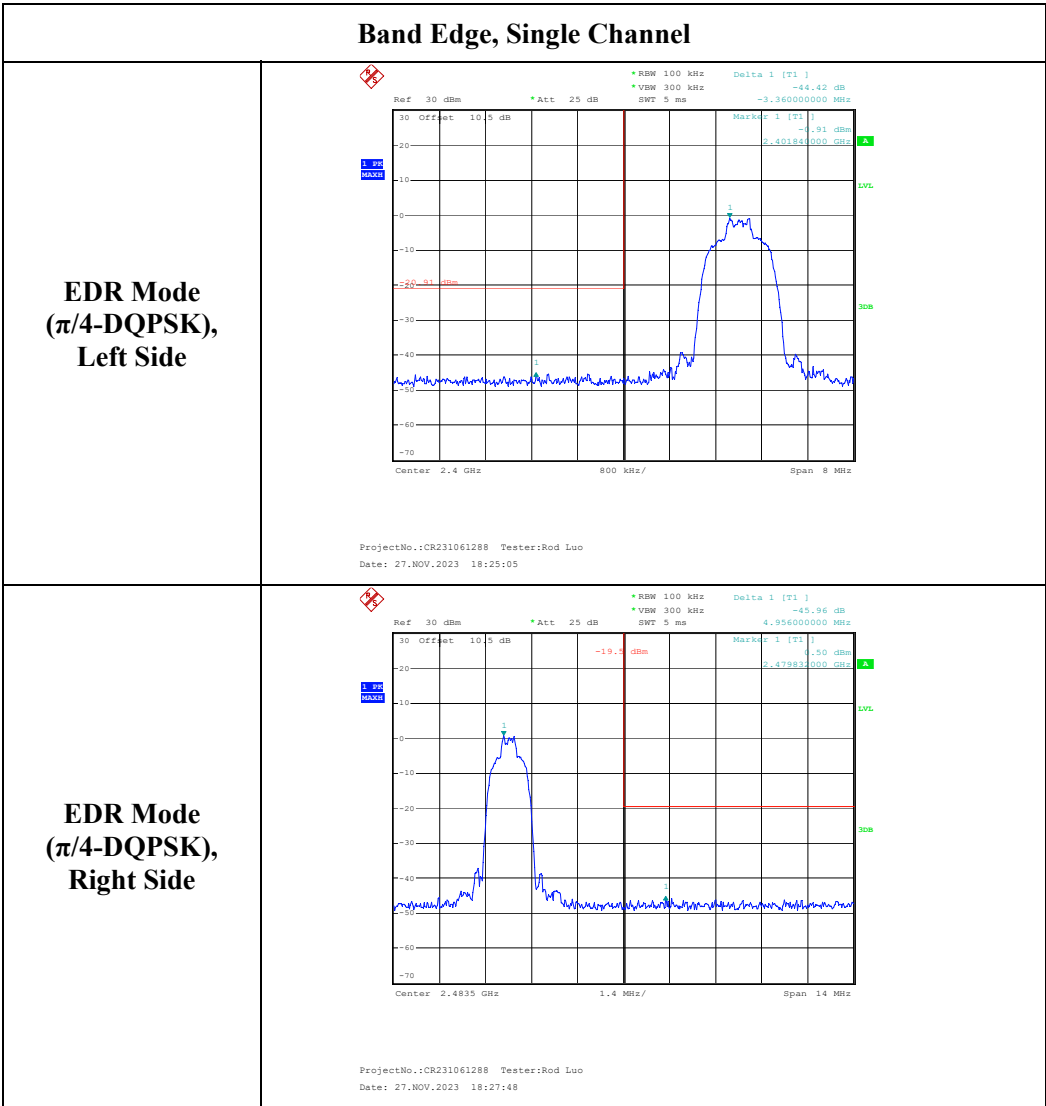
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

** 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:

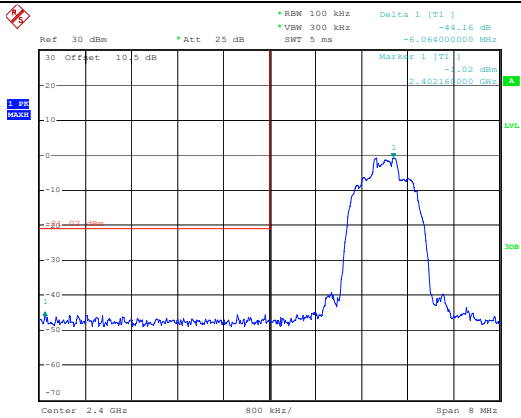
Ant0





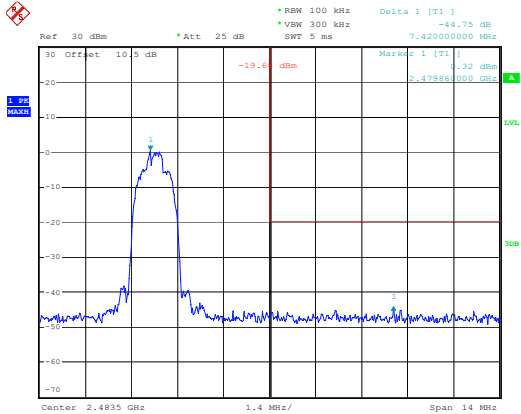
Band Edge, Single Channel

EDR Mode
(8DPSK),
Left Side



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:29:00

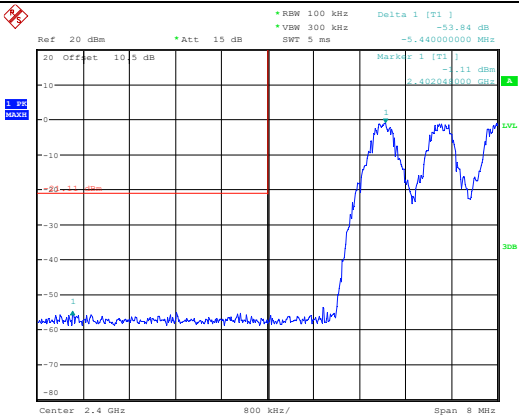
EDR Mode
(8DPSK),
Right Side



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:30:48

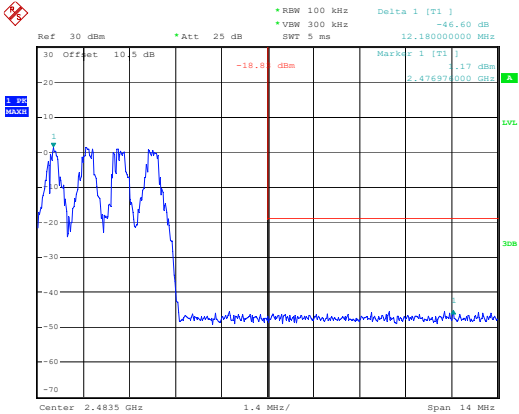
Band Edge, Hopping Channel

BDR Mode
(GFSK),
Left Side



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 8.DEC.2023 10:17:30

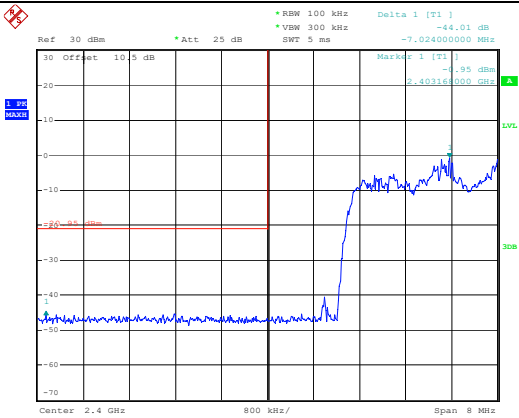
BDR Mode
(GFSK),
Right Side



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:33:08

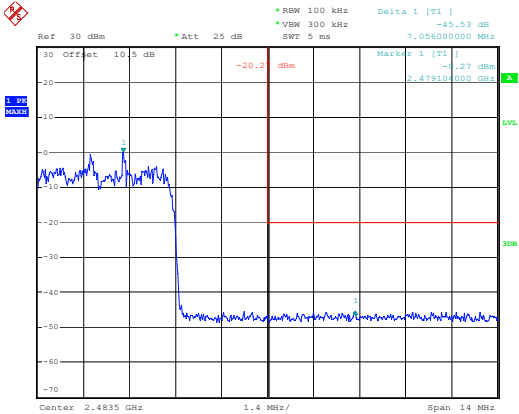
Band Edge, Hopping Channel

EDR Mode
($\pi/4$ -DQPSK),
Left Side



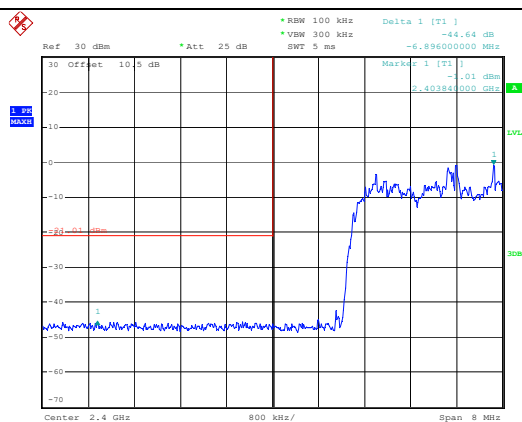
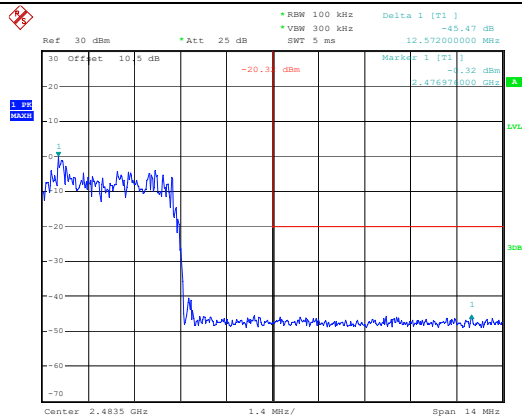
ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:33:51

EDR Mode
($\pi/4$ -DQPSK),
Right Side

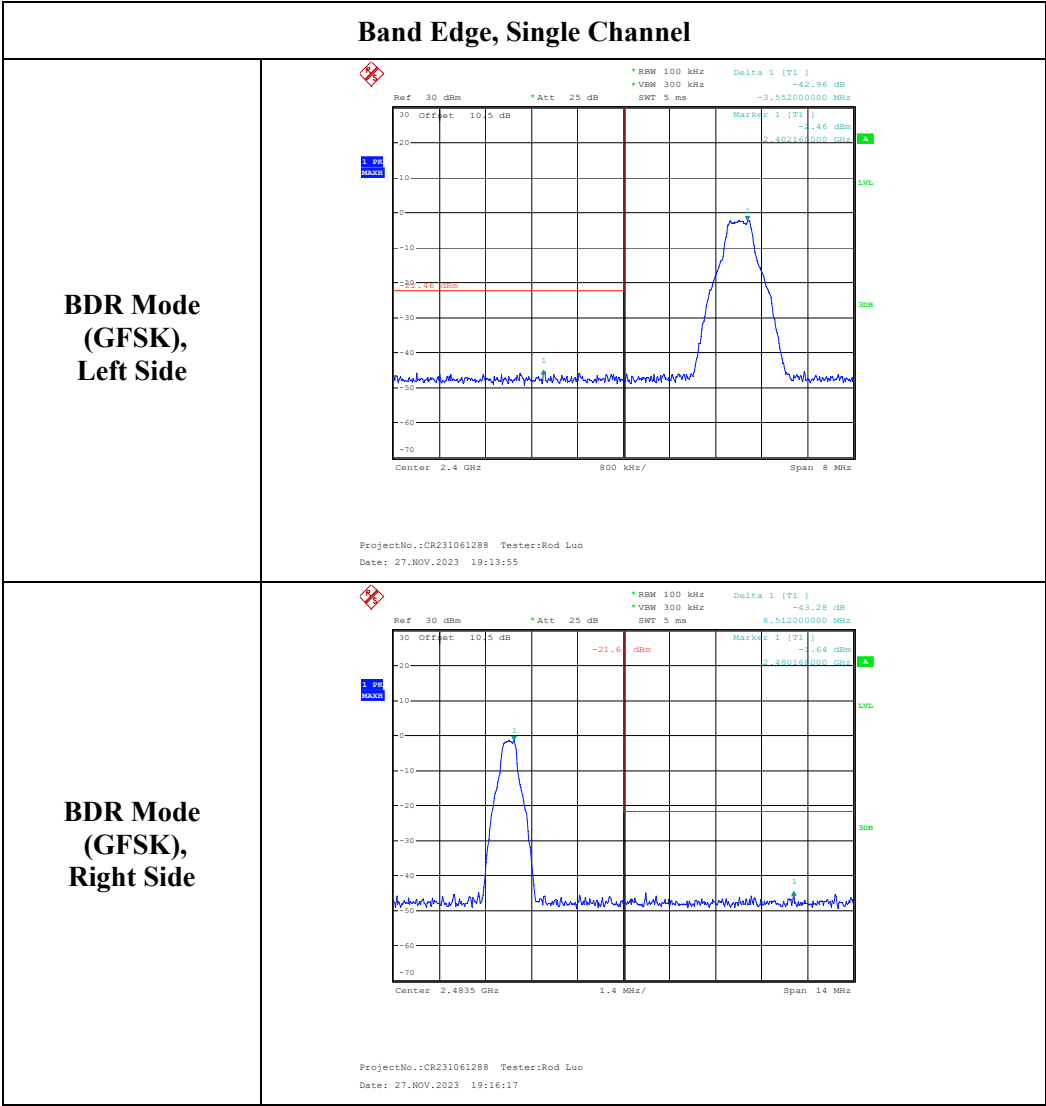


ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:34:19

Band Edge, Hopping Channel

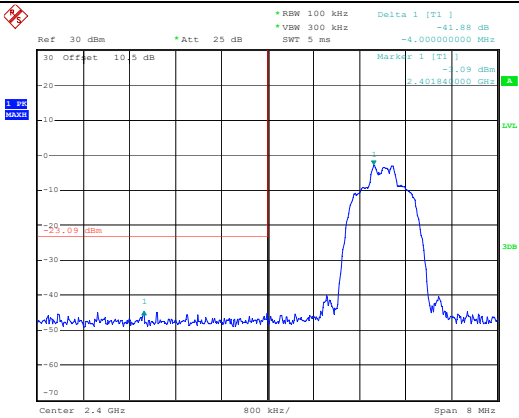
EDR Mode
(8DPSK),
Left SideProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:35:02EDR Mode
(8DPSK),
Right SideProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 18:35:24

Ant1



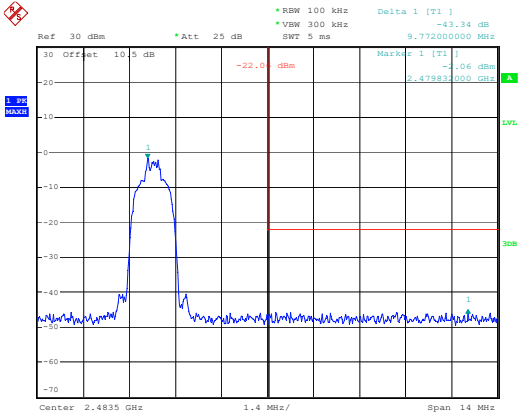
Band Edge, Single Channel

EDR Mode
($\pi/4$ -DQPSK),
Left Side

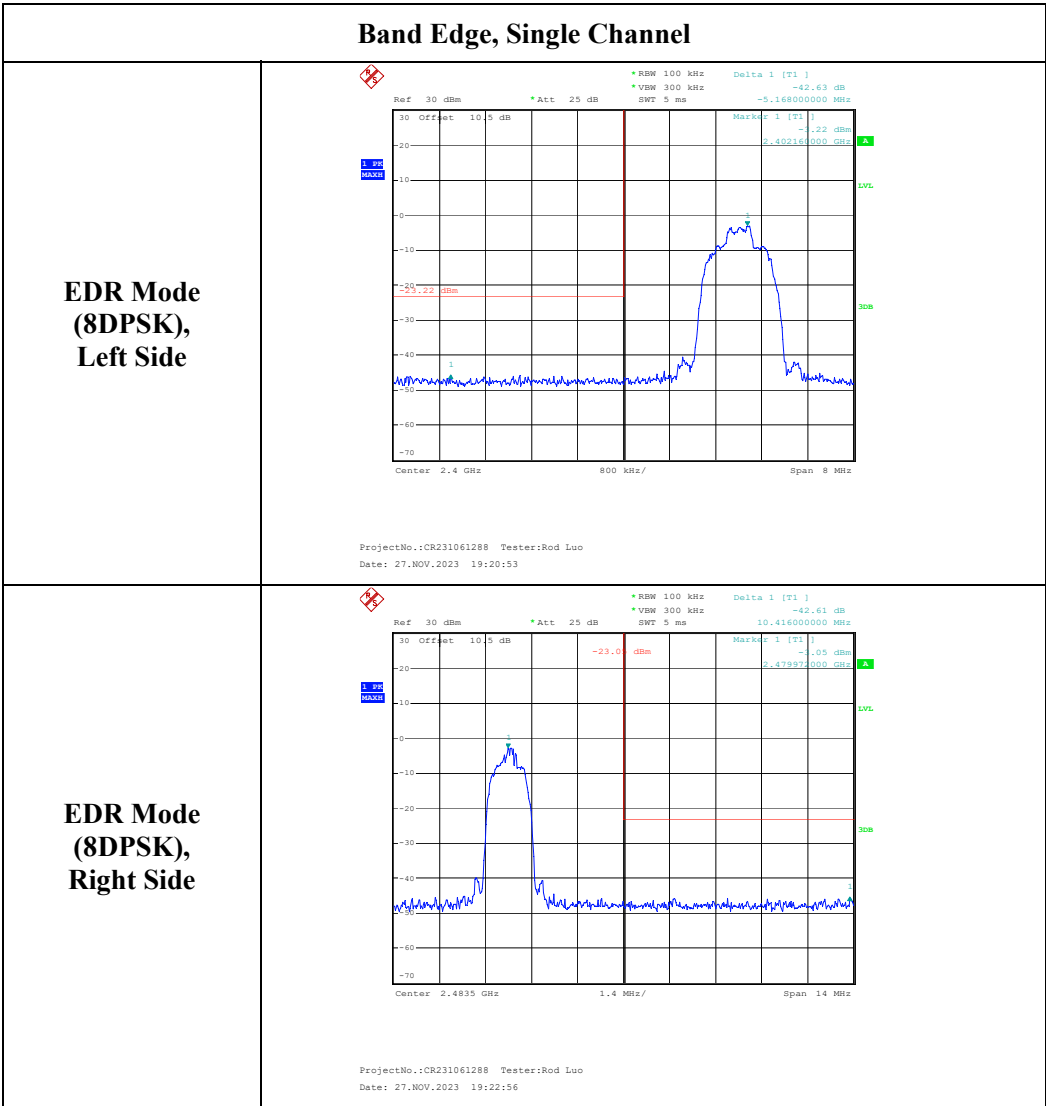


ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:17:47

EDR Mode
($\pi/4$ -DQPSK),
Right Side

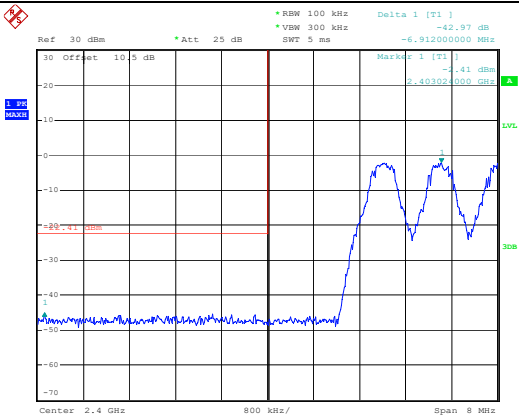


ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:19:41



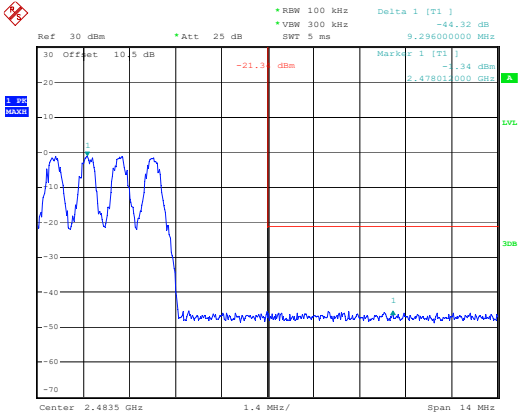
Band Edge, Hopping Channel

BDR Mode
(GFSK),
Left Side



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:25:30

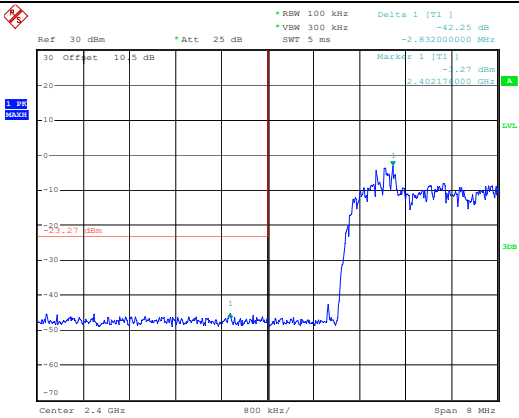
BDR Mode
(GFSK),
Right Side



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:26:05

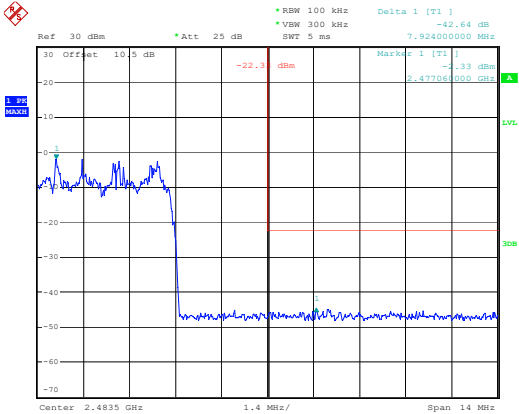
Band Edge, Hopping Channel

EDR Mode
($\pi/4$ -DQPSK),
Left Side



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:26:42

EDR Mode
($\pi/4$ -DQPSK),
Right Side



ProjectNo.:CR231061288 Tester:Rod Luo
Date: 27.NOV.2023 19:27:31

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.2 Measurement Result

The max conducted power including tune-up tolerance is 2.5dBm (1.78mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 1.78/5 \cdot (\sqrt{2.480}) = 0.6 < 3.0$

Result: Compliant. The stand-alone SAR evaluation is not necessary.

6. EUT PHOTOGRAPHS

Please refer to the attachment CR231061288-EXP EUT EXTERNAL PHOTOGRAPHS and
CR231061288-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061288-00B-TSP TEST SETUP PHOTOGRAPHS.

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