



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

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FCC ID: 2AA7X-WH202B

IC: 30306-WH202B

HVIN: WH202B

Product Name: Wireless Headphones

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ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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: 2603U65565E-RF-00A

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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 Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, Guangdong, China.

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

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

Declarations

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

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

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2603U65565E-RF-00A	Original Report	2026/9/30

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Wireless Headphones
Trade Name:	BERIBES
EUT Model:	WH202A
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	3.42dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	DC 3.7V from battery or DC 5V from USB
Sample Number:	30L2-1(for Radiation Spurious Emissions Test) 30L2-2(for RF Conducted Test)
EUT Received Date:	2026/6/20
EUT Received Status:	Good

1.2 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

1.3 Antenna Information Detail[▲]

Antenna Type	Input Impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
PCB	50	2400-2480	-2.3

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.

1.4 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
USB Cable	/	/	Unshielded without ferrite core, 0.45m
AUX Cable	/	/	Unshielded without ferrite core, 1.2m

1.5 Description of Test Configuration

1.5.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	FCC Assist.exe

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:

Test Modes	Packet Type	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
BDR Mode (GFSK)	DH1	6	6	6
	DH3	6	6	6
	DH5	6	6	6
2EDR Mode ($\pi/4$ -DQPSK)	2DH1	6	6	6
	2DH3	6	6	6
	2DH5	6	6	6
3EDR Mode (8DPSK)	3DH1	6	6	6
	3DH3	6	6	6
	3DH5	6	6	6

1.5.2 Support Equipment List and Details

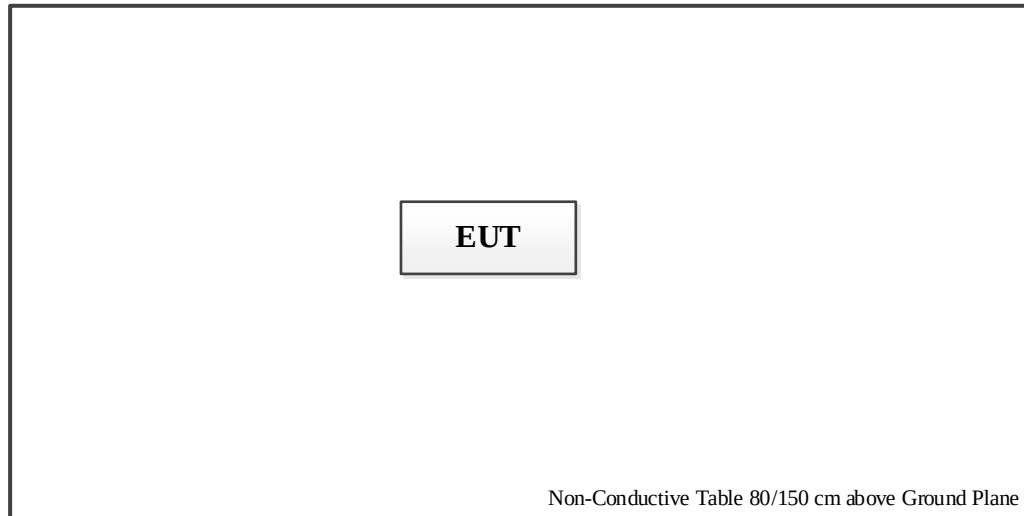
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.5.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

1.5.4 Block Diagram of Test Setup

Spurious Emissions:



1.6 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
RF Output Power, Conducted	± 0.61 dB
Power Spectral Density, Conducted	± 0.61 dB
Unwanted Emissions, Radiated	9k~30MHz: 4.12dB, 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Unwanted Emissions, Conducted	± 1.26 dB
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC And Low Frequency Voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
FCC §15.207(a) RSS-Gen Clause 8.8	AC Line Conducted Emissions	Not applicable
FCC §15.205, §15.209, §15.247(d) RSS-Gen Clause 8.10	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1) RSS-247 Clause 5.1 b)	20 dB Emission Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1) RSS-247 Clause 5.1 b)	Channel Separation	Compliant
FCC §15.247(a)(1)(iii) RSS-247 Clause 5.1 d)	Number Of Hopping Frequency	Compliant
FCC §15.247(a)(1)(iii) RSS-247 Clause 5.1 d)	Time Of Occupancy (Dwell Time)	Compliant
FCC §15.247(b)(1) RSS-247 Clause 5.4 b)	Maximum Conducted Output Power	Compliant
FCC §15.247(d) RSS-247 Clause 5.5	Conducted Spurious Emission	Compliant
FCC §15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
§15.247 (i) & §1.1310 & §2.1093	SAR Evaluation	Compliant
RSS-102 Clause 6.3	Exemption Limits for Routine Evaluation- SAR Evaluation	Compliant

Note:

Not applicable: The device is powered by battery during operation.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 Radiation Spurious Emissions

3.1.1 Applicable Standard

FCC §15.247 (d)

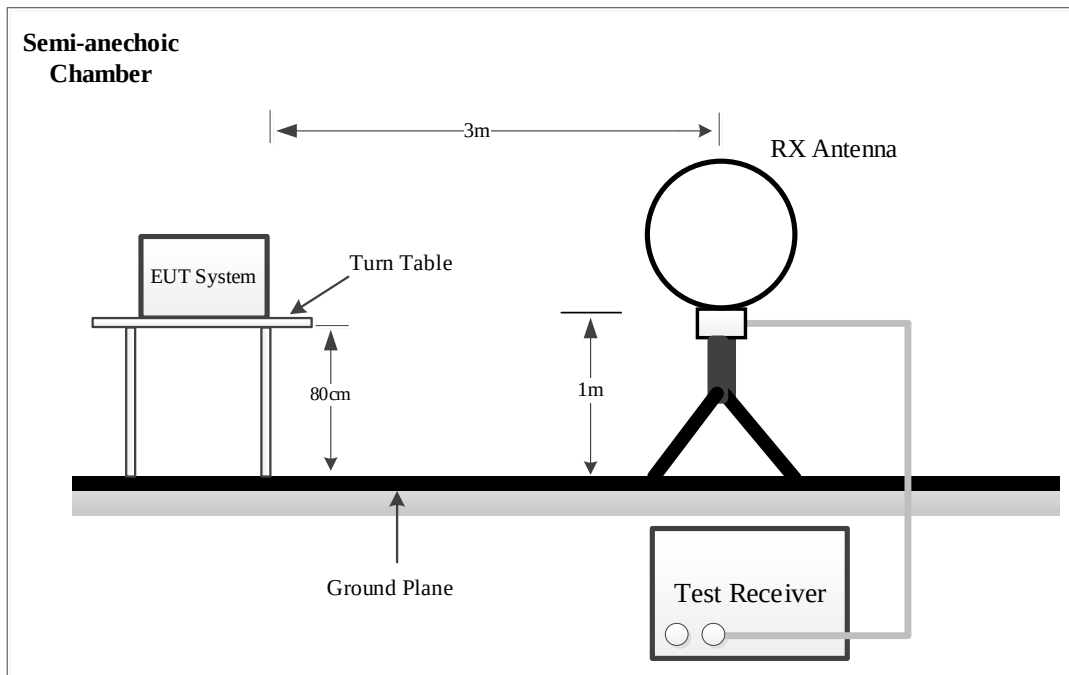
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

RSS-247 Clause 5.5

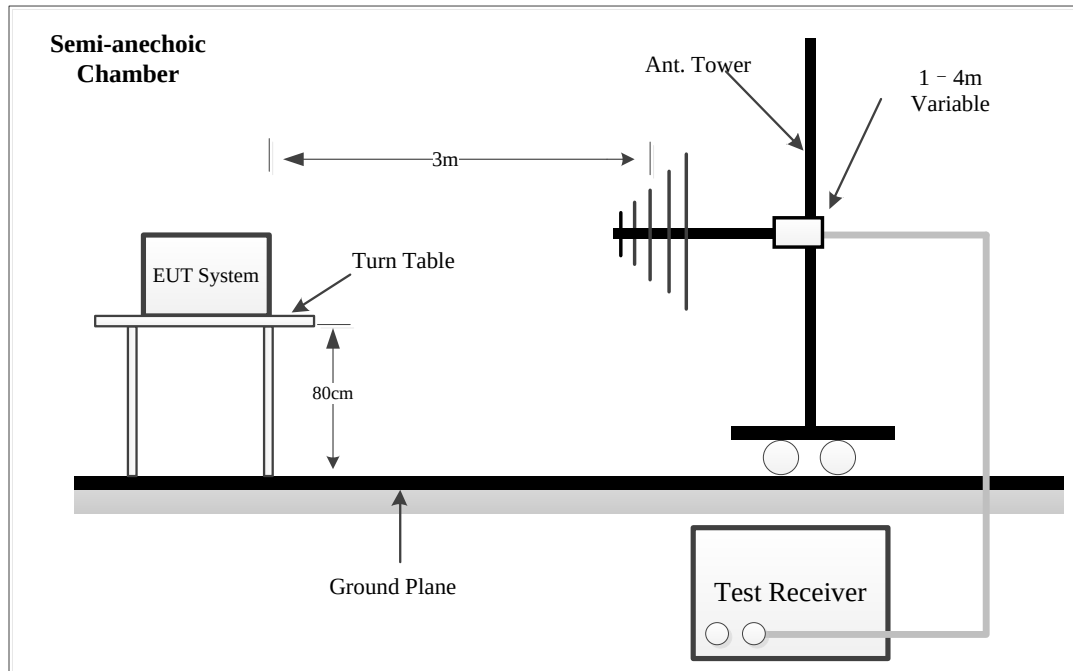
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

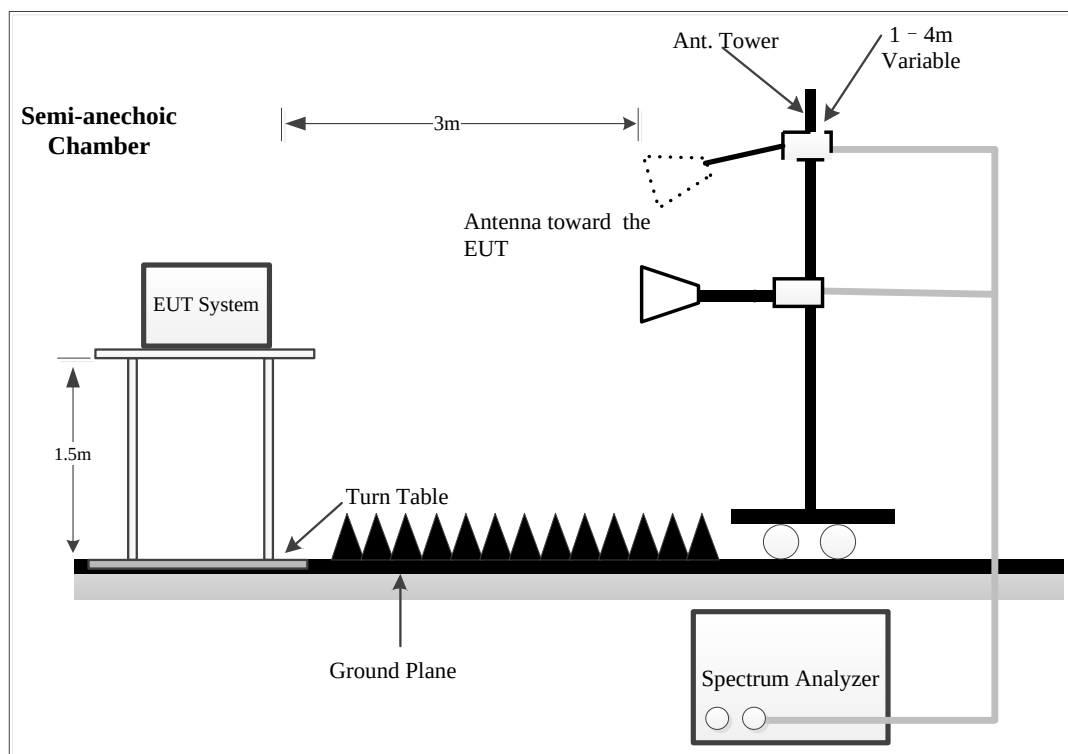
3.1.2 EUT Setup

9kHz-30MHz:



30MHz~1GHz:



1-25GHz:

The radiated emissions were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247, RSS-247, RSS-Gen limits.

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

3.1.3 EMI Test Receiver & Spectrum Analyzer Setup

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

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz-150 kHz	QP/AV	200 Hz	1 kHz	200 Hz	QP/AV
150 kHz-30 MHz	QP/AV	9 kHz	30 kHz	9 kHz	QP/AV
30 MHz-1000 MHz	Peak	120 kHz	500 kHz	/	PK
	QP	/	/	120 kHz	QP

Above 1GHz:**Pre-scan:**

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	10 Hz	PK

3.1.4 Test Procedure

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

Data was required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

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.

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

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

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

For 9kHz-26.5GHz:

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

For 26.5GHz-40GHz

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

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:

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

For the spurious emission below 30MHz, the limit was converted from dBμA/m to dBμV/m by adding 51.5 dB.

3.2 20 dB Emission Bandwidth

3.2.1 Applicable Standard

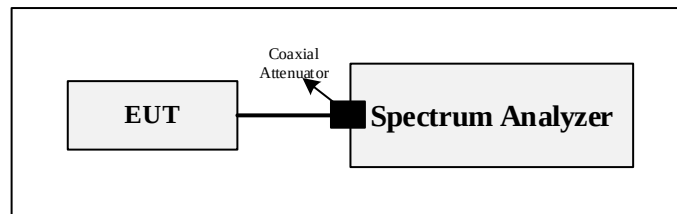
FCC §15.247 (a)(1)

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.

RSS-247 Clause 5.1 b)

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.

3.2.2 EUT Setup



3.2.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.

- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.3 99% Occupied Bandwidth

3.3.1 Applicable Standard

RSS-Gen Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g., on adjacent channels) within the span.

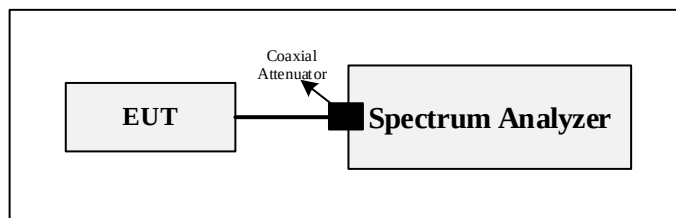
The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.

The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) 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

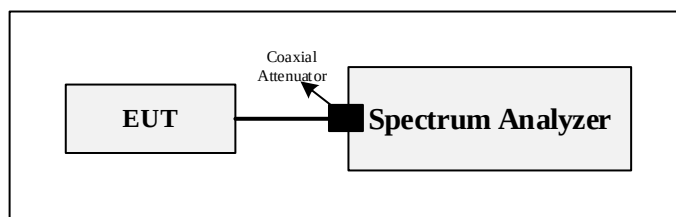
FCC §15.247 (a)(1)

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.

RSS-247 Clause 5.1 b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.50 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2020 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) $\geq 1/10^{\text{th}}$ the RBW.
- d) Sweep: No faster than coupled (auto) time.
- 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.

Where the device shares the same channel plan (carrier frequencies and number of channels) across multiple data rates or modulation schemes then the carrier separation need only be measured for one of those modulation schemes or data rates.

3.5 Number Of Hopping Frequency

3.5.1 Applicable Standard

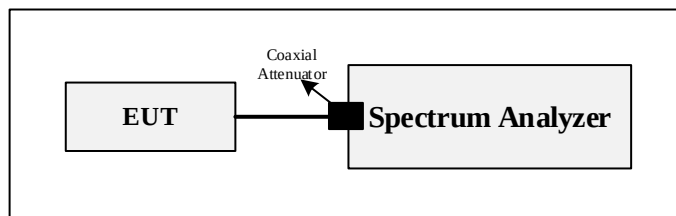
FCC §15.247 (a)(1)(iii)

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.

RSS-247 Clause 5.1 d)

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 C63.10-2020 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 $\geq 1/10^{\text{th}}$ the RBW.
- d) Sweep: No faster than coupled (auto) time.
- 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 spectral plot of the data shall be included in the test report.

Where the device shares the same channel plan (carrier frequencies and number of channels) across multiple data rates or modulation schemes then the number of channels need only be measured for one of those modulation schemes or data rates.

3.6 Time Of Occupancy (Dwell Time)

3.6.1 Applicable Standard

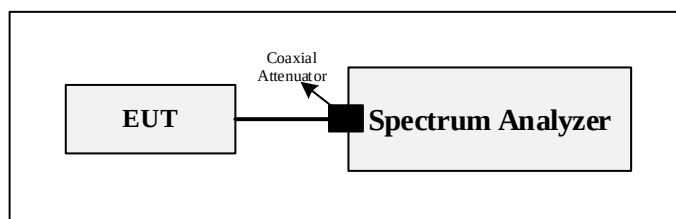
FCC §15.247 (a)(1)(iii)

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.

RSS-247 Clause 5.1 d)

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.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2020 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 transmission time per hop.
- c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- e) Detector function: Peak.
- f) Trace: Clear-write, single sweep.
- g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

Where the device shares the same hopping algorithms (dwell time, channel selection) across multiple data rates or modulation schemes then the time of occupancy need only be measured for one of those modulation schemes or data rates. If the dwell time value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in dwell time.

Spectral plots of the channel occupancy shall be included in the report.

3.7 Maximum Conducted Output Power

3.7.1 Applicable Standard

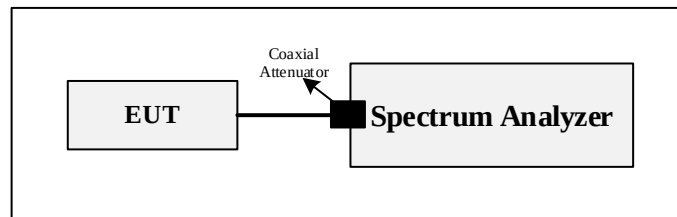
FCC §15.247 (b)(1)

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

According to RSS-247 Clause 5.4 b)

For FHSs operating in the band 2400–2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

3.7.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

3.7.3 Test Procedure

According to ANSI C63.10-2020 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. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:

- a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- b) RBW > 20 dB bandwidth of the emission being measured.
- c) VBW $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow trace to stabilize.
- h) Use the marker-to-peak function to set the marker to the peak of the emission.
- i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- j) A spectral 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 Conducted Spurious Emission

3.8.1 Applicable Standard

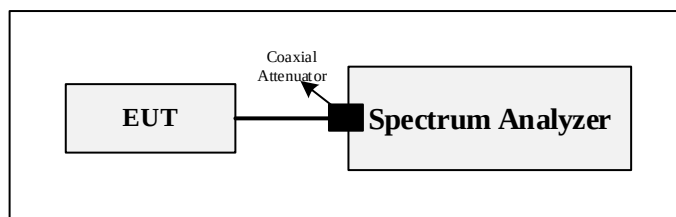
FCC §15.247 (d);

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)).

According to RSS-247 Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

3.8.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

3.8.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.7.2

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

- a) Set the center frequency and span to encompass frequency range to be measured.
 - b) Set the RBW = 100 kHz.
 - c) Set the VBW $\geq [3 \times \text{RBW}]$.
 - d) Detector = peak.
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use the peak marker function to determine the maximum amplitude level.
- Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

3.9 Antenna Requirement

3.9.1 Applicable Standard

FCC §15.203

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

RSS-Gen §6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

3.9.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

4. Test DATA AND RESULTS

4.1 Radiation Spurious Emissions

1) 9kHz - 1GHz

Sample Number:	3OL2-1	Test Date:	2026/8/19
Test Site:	966-1	Test Mode:	Transmitting (maximum conducted output power mode, 3DH1 middle channel)
Tester:	Jin He	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.7	Relative Humidity: (%)	59	ATM Pressure: (kPa)	99.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RE Below 1G					
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
GLOBAL	Loop Antenna	1313-1A	3110611	2026/1/29	2029/1/28
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/11/10	2026/11/9
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/11/10	2026/11/9
R&S	EMI Test Receiver	ESR3	102724	2026/2/27	2027/2/26
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2025/11/10	2026/11/9
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2025/11/10	2026/11/9
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2026/5/21	2027/5/20
Sonoma	Amplifier	310N	186165	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A

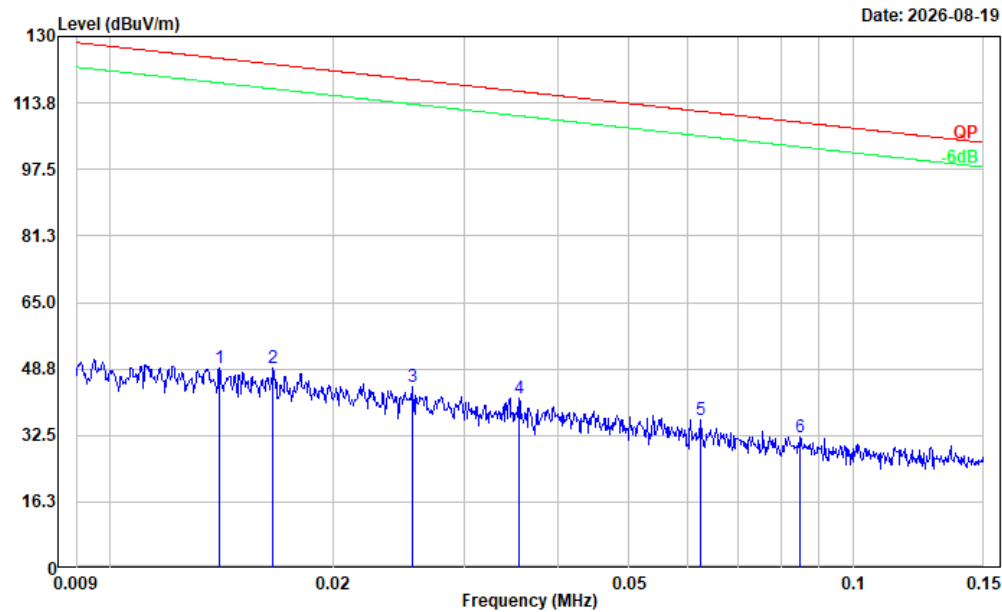
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

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

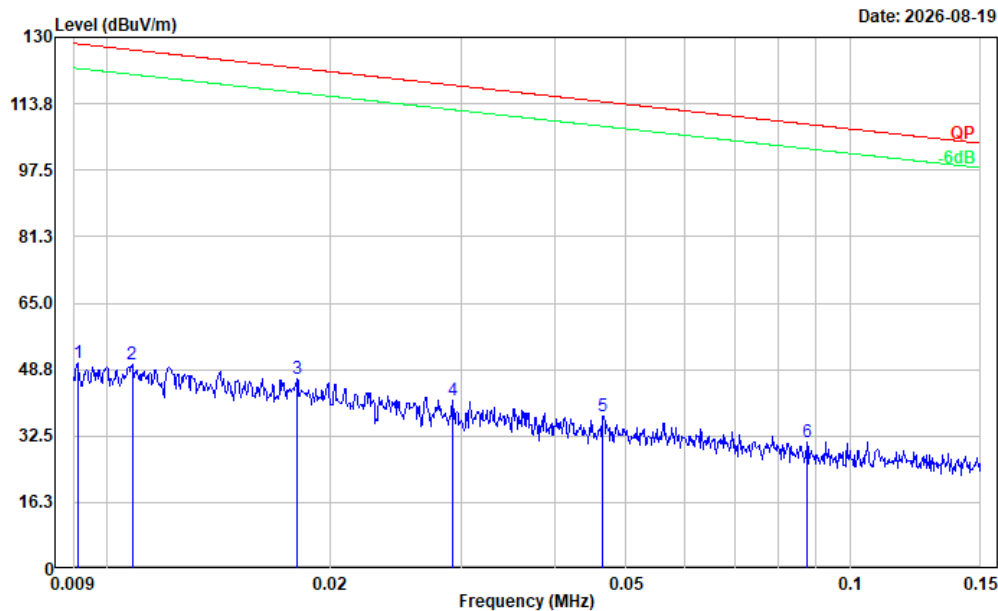
9kHz~30MHz:

Project No.: 2603U65565E-RF
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Parallel
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.014	16.44	32.42	48.86	124.66	75.80	Peak
2	0.017	17.69	31.23	48.92	123.22	74.30	Peak
3	0.025	17.31	27.05	44.36	119.48	75.12	Peak
4	0.036	17.84	23.74	41.58	116.59	75.01	Peak
5	0.062	17.53	18.83	36.36	111.71	75.35	Peak
6	0.085	16.34	15.77	32.11	109.02	76.91	Peak

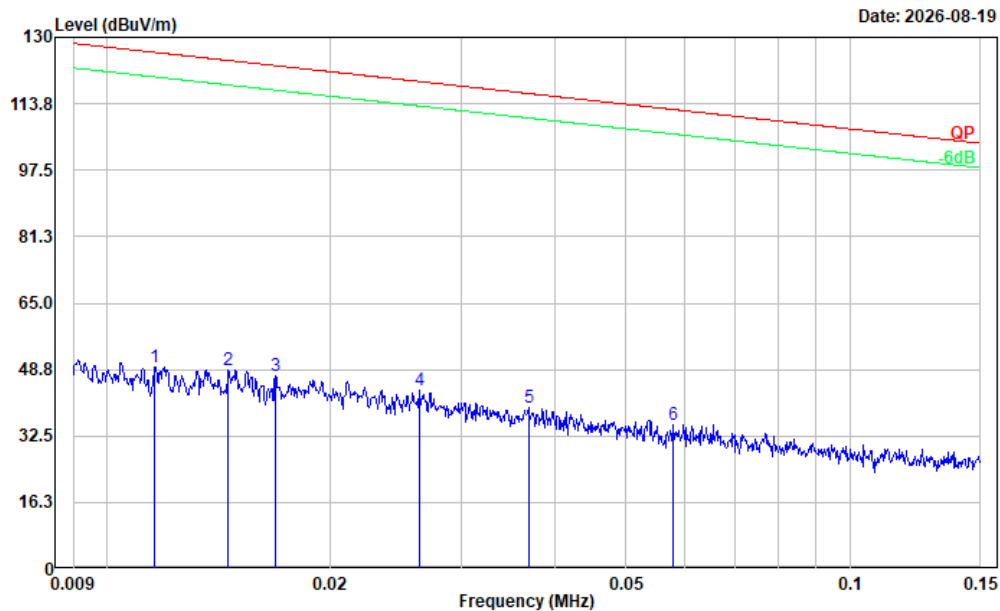
Project No.: 2603U65565E-RF
 Tester: Jin He
 Condition: RBW:0.2 kHz VBW:1 kHz
 Polarization: Perpendicular
 Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark

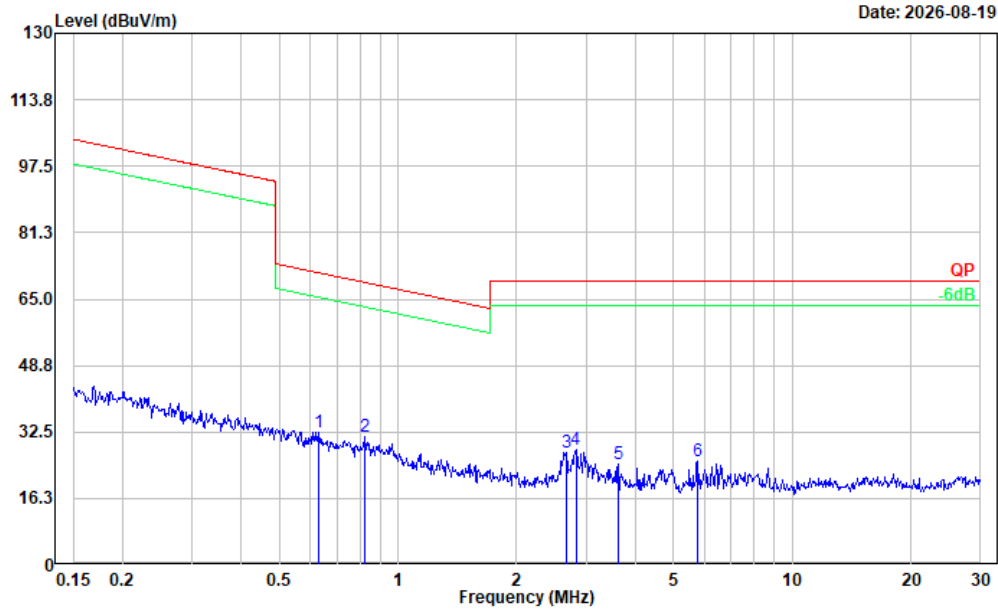
1	0.009	15.63	34.68	50.31	128.40	78.09	Peak
2	0.011	16.80	33.30	50.10	126.93	76.83	Peak
3	0.018	17.09	29.59	46.68	122.48	75.80	Peak
4	0.029	17.47	23.86	41.33	118.31	76.98	Peak
5	0.046	17.12	20.16	37.28	114.27	76.99	Peak
6	0.088	16.42	14.59	31.01	108.75	77.74	Peak

Project No.: 2603U65565E-RF
 Tester: Jin He
 Condition: RBW:0.2 kHz VBW:1 kHz
 Polarization: Ground-Parallel
 Note: Transmitting



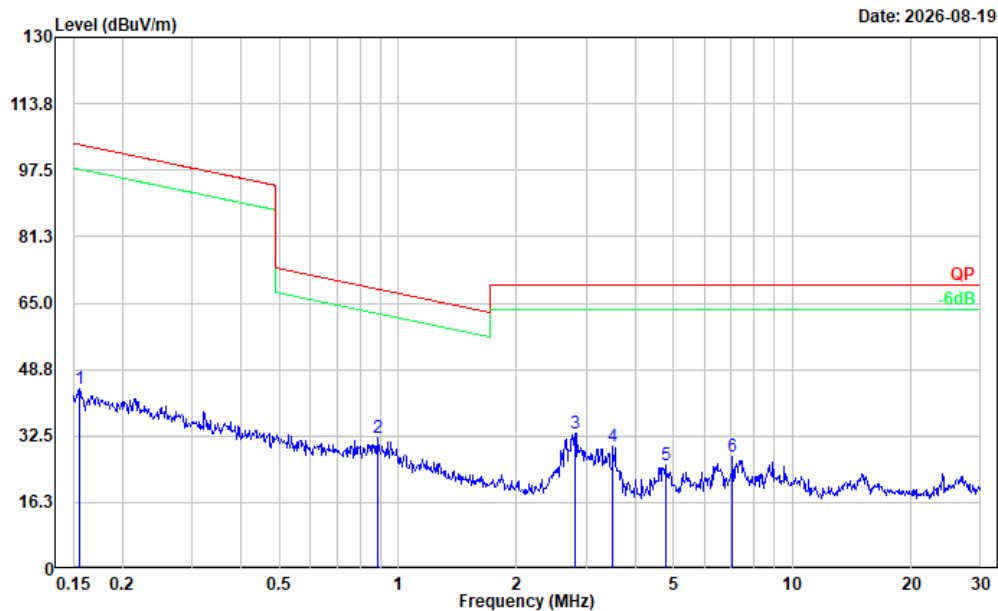
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.012	15.85	33.57	49.42	126.32	76.90	Peak
2	0.015	16.61	32.18	48.79	124.34	75.55	Peak
3	0.017	15.95	31.10	47.05	123.07	76.02	Peak
4	0.026	17.05	26.64	43.69	119.18	75.49	Peak
5	0.037	15.98	23.44	39.42	116.25	76.83	Peak
6	0.058	15.90	19.50	35.40	112.37	76.97	Peak

Project No.: 2603U65565E-RF
 Tester: Jin He
 Condition: RBW:9 kHz VBW:30 kHz
 Polarization: Parallel
 Note: Transmitting



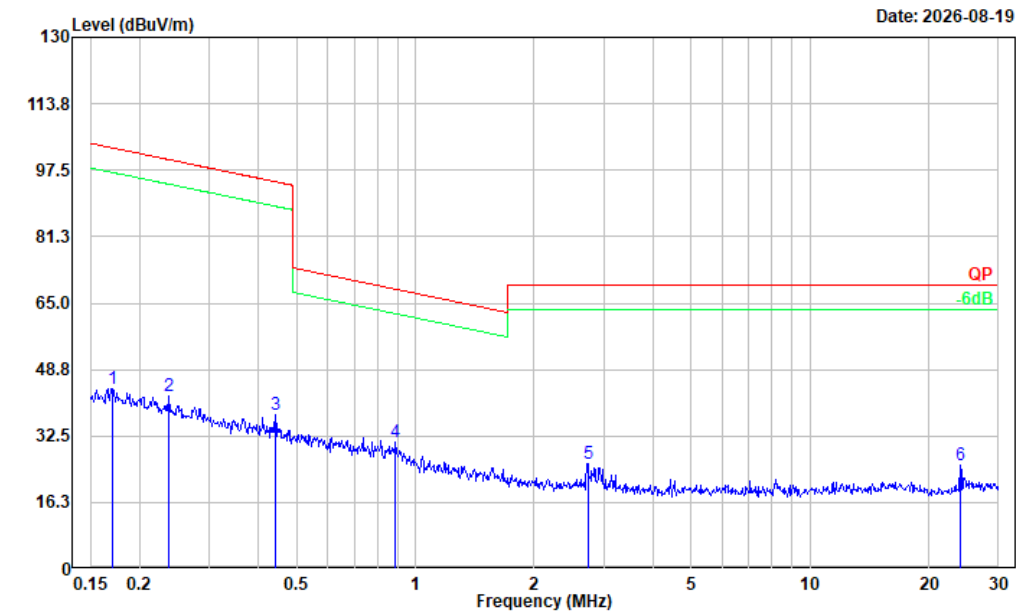
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.627	33.05	-0.53	32.52	71.61	39.09	Peak
2	0.826	34.11	-2.68	31.43	69.17	37.74	Peak
3	2.664	35.41	-7.99	27.42	69.54	42.12	Peak
4	2.824	36.16	-8.10	28.06	69.54	41.48	Peak
5	3.623	33.22	-8.64	24.58	69.54	44.96	Peak
6	5.744	34.23	-8.96	25.27	69.54	44.27	Peak

Project No.: 2603U65565E-RF
 Tester: Jin He
 Condition: RBW:9 kHz VBW:30 kHz
 Polarization: Perpendicular
 Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.156	32.97	11.01	43.98	103.76	59.78	Peak
2	0.885	36.44	-4.34	32.10	68.56	36.46	Peak
3	2.809	42.29	-9.21	33.08	69.54	36.46	Peak
4	3.509	39.86	-9.78	30.08	69.54	39.46	Peak
5	4.772	35.30	-9.99	25.31	69.54	44.23	Peak
6	7.062	37.18	-9.59	27.59	69.54	41.95	Peak

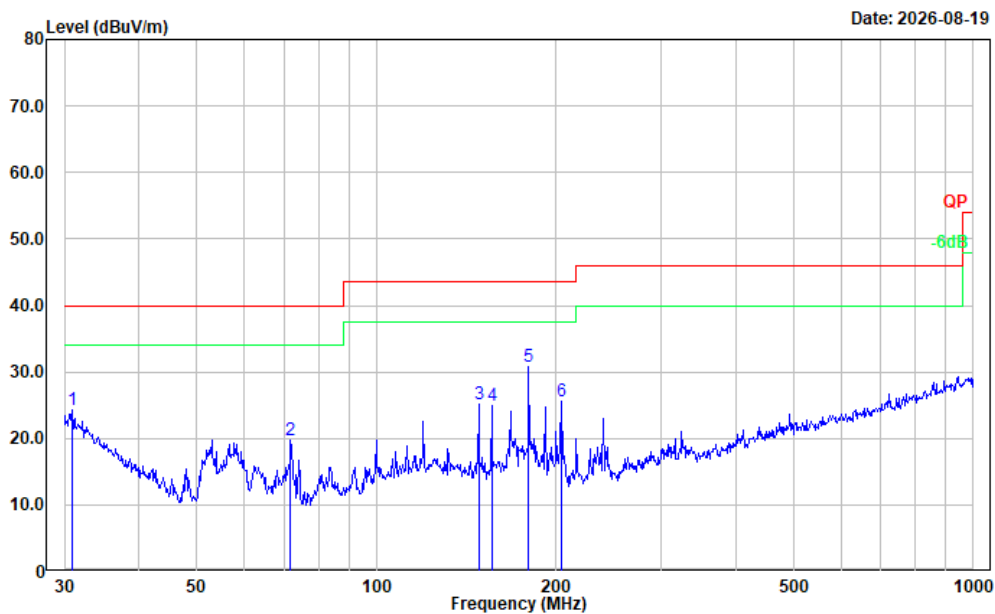
Project No.: 2603U65565E-RF
 Tester: Jin He
 Condition: RBW:9 kHz VBW:30 kHz
 Polarization: Ground-Parallel
 Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.170	33.11	11.07	44.18	102.98	58.80	Peak
2	0.238	34.20	7.93	42.13	100.08	57.95	Peak
3	0.442	35.50	2.08	37.58	94.69	57.11	Peak
4	0.890	34.39	-3.33	31.06	68.51	37.45	Peak
5	2.736	33.69	-8.04	25.65	69.54	43.89	Peak
6	24.015	33.75	-8.30	25.45	69.54	44.09	Peak

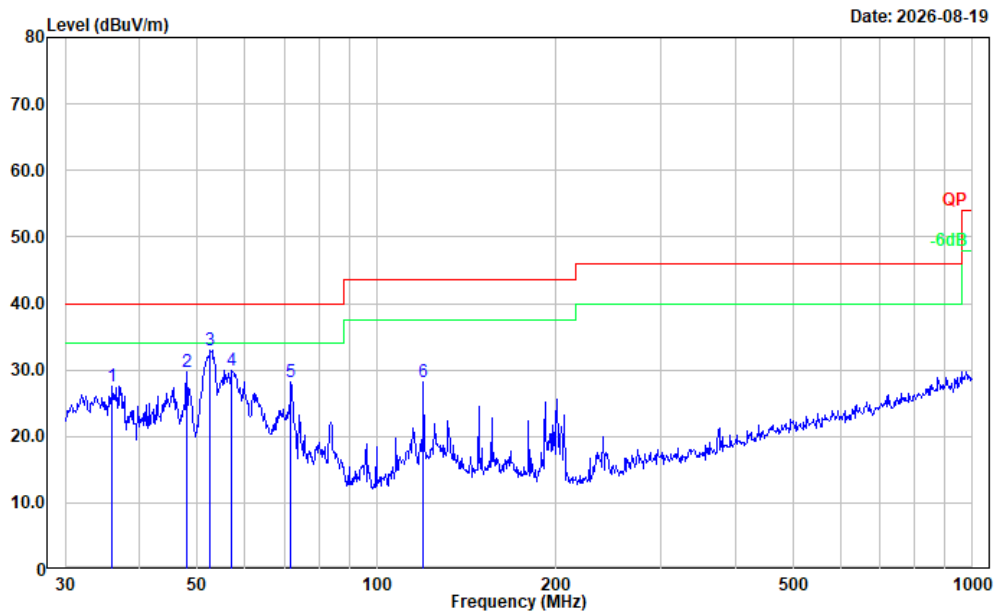
30MHz~1GHz:

Project No.: 2603U65565E-RF
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: horizontal
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	30.962	28.67	-4.40	24.27	40.00	15.73	Peak
2	71.832	36.91	-17.11	19.80	40.00	20.20	Peak
3	148.441	37.09	-11.98	25.11	43.50	18.39	Peak
4	155.910	36.56	-11.71	24.85	43.50	18.65	Peak
5	180.017	44.01	-13.32	30.69	43.50	12.81	Peak
6	204.238	38.57	-13.00	25.57	43.50	17.93	Peak

Project No.: 2603U65565E-RF
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: vertical
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	36.001	35.73	-8.10	27.63	40.00	12.37	Peak
2	47.994	45.93	-16.30	29.63	40.00	10.37	Peak
3	52.575	50.50	-17.50	33.00	40.00	7.00	Peak
4	57.191	47.62	-17.75	29.87	40.00	10.13	Peak
5	71.832	45.20	-17.11	28.09	40.00	11.91	Peak
6	119.856	39.38	-11.12	28.26	43.50	15.24	Peak

2) 1-25GHz

Serial Number:	3OL2-1	Test Date:	2026/8/12-2026/9/30
Test Site:	966-2	Test Mode:	Transmitting
Tester:	HuaYuan Miao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.2-22.9	Relative Humidity: (%)	54-62	ATM Pressure: (kPa)	99.4-100.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2026/2/27	2027/2/26
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/11/10	2026/11/9
A.H	Pre-amplifier	PAM-0118P	628	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/5/24	2027/5/23
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/11/10	2026/11/9
Decentest	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2026/8/3	2027/8/2
Decentest	Filter Switch Unit	DT7220FSU	DQ77928	2026/8/3	2027/8/2

** 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(Z) is below:

BDR Mode (GFSK DH5):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel: 2402 MHz							
4804.000	39.17	PK	H	4.64	43.81	74.00	30.19
4804.000	39.52	PK	V	4.64	44.16	74.00	29.84
7206.000	41.72	PK	H	9.84	51.56	74.00	22.44
7206.000	30.42	AV	H	9.84	40.26	54.00	13.74
7206.000	39.79	PK	V	9.84	49.63	74.00	24.37
7206.000	27.22	AV	V	9.84	37.06	54.00	16.94
Middle Channel: 2441 MHz							
4882.000	38.84	PK	H	4.88	43.72	74.00	30.28
4882.000	39.78	PK	V	4.88	44.66	74.00	29.34
7323.000	40.45	PK	H	10.58	51.03	74.00	22.97
7323.000	28.50	AV	H	10.58	39.08	54.00	14.92
7323.000	38.24	PK	V	10.58	48.82	74.00	25.18
7323.000	25.47	AV	V	10.58	36.05	54.00	17.95
High Channel: 2480 MHz							
4960.000	38.51	PK	H	4.87	43.38	74.00	30.62
4960.000	39.80	PK	V	4.87	44.67	74.00	29.33
7440.000	40.16	PK	H	10.60	50.76	74.00	23.24
7440.000	27.21	AV	H	10.60	37.81	54.00	16.19
7440.000	38.72	PK	V	10.60	49.32	74.00	24.68
7440.000	26.23	AV	V	10.60	36.83	54.00	17.17

EDR Mode ($\pi/4$ -DQPSK 2DH5):

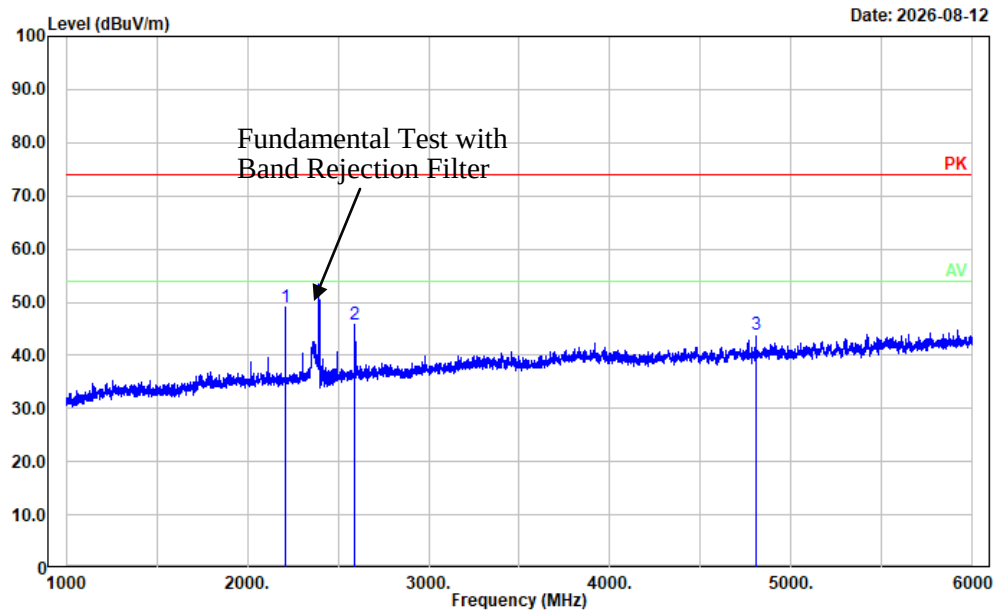
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel: 2402 MHz							
4804.000	38.50	PK	H	4.64	43.14	74.00	30.86
4804.000	38.86	PK	V	4.64	43.50	74.00	30.50
7206.000	41.25	PK	H	9.84	51.09	74.00	22.91
7206.000	27.10	AV	H	9.84	36.94	54.00	17.06
7206.000	38.98	PK	V	9.84	48.82	74.00	25.18
7206.000	25.96	AV	V	9.84	35.80	54.00	18.20
Middle Channel: 2441 MHz							
4882.000	38.28	PK	H	4.88	43.16	74.00	30.84
4882.000	38.78	PK	V	4.88	43.66	74.00	30.34
7323.000	37.92	PK	H	10.58	48.50	74.00	25.50
7323.000	25.20	AV	H	10.58	35.78	54.00	18.22
7323.000	37.98	PK	V	10.58	48.56	74.00	25.44
7323.000	25.21	AV	V	10.58	35.79	54.00	18.21
High Channel: 2480 MHz							
4960.000	38.41	PK	H	4.87	43.28	74.00	30.72
4960.000	38.90	PK	V	4.87	43.77	74.00	30.23
7440.000	39.28	PK	H	10.60	49.88	74.00	24.12
7440.000	25.89	AV	H	10.60	36.49	54.00	17.51
7440.000	38.35	PK	V	10.60	48.95	74.00	25.05
7440.000	25.50	AV	V	10.60	36.10	54.00	17.90

EDR Mode (8DPSK 3DH5):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel: 2402 MHz							
4804.000	38.80	PK	H	4.64	43.44	74.00	30.56
4804.000	38.61	PK	V	4.64	43.25	74.00	30.75
7206.000	41.03	PK	H	9.84	50.87	74.00	23.13
7206.000	26.64	AV	H	9.84	36.48	54.00	17.52
7206.000	39.27	PK	V	9.84	49.11	74.00	24.89
7206.000	25.95	AV	V	9.84	35.79	54.00	18.21
Middle Channel: 2441 MHz							
4882.000	38.79	PK	H	4.88	43.67	74.00	30.33
4882.000	39.00	PK	V	4.88	43.88	74.00	30.12
7323.000	40.68	PK	H	10.58	51.26	74.00	22.74
7323.000	26.28	AV	H	10.58	36.86	54.00	17.14
7323.000	38.63	PK	V	10.58	49.21	74.00	24.79
7323.000	25.29	AV	V	10.58	35.87	54.00	18.13
High Channel: 2480 MHz							
4960.000	39.04	PK	H	4.87	43.91	74.00	30.09
4960.000	40.13	PK	V	4.87	45.00	74.00	29.00
7440.000	39.60	PK	H	10.60	50.20	74.00	23.80
7440.000	26.05	AV	H	10.60	36.65	54.00	17.35
7440.000	38.72	PK	V	10.60	49.32	74.00	24.68
7440.000	25.41	AV	V	10.60	36.01	54.00	17.99

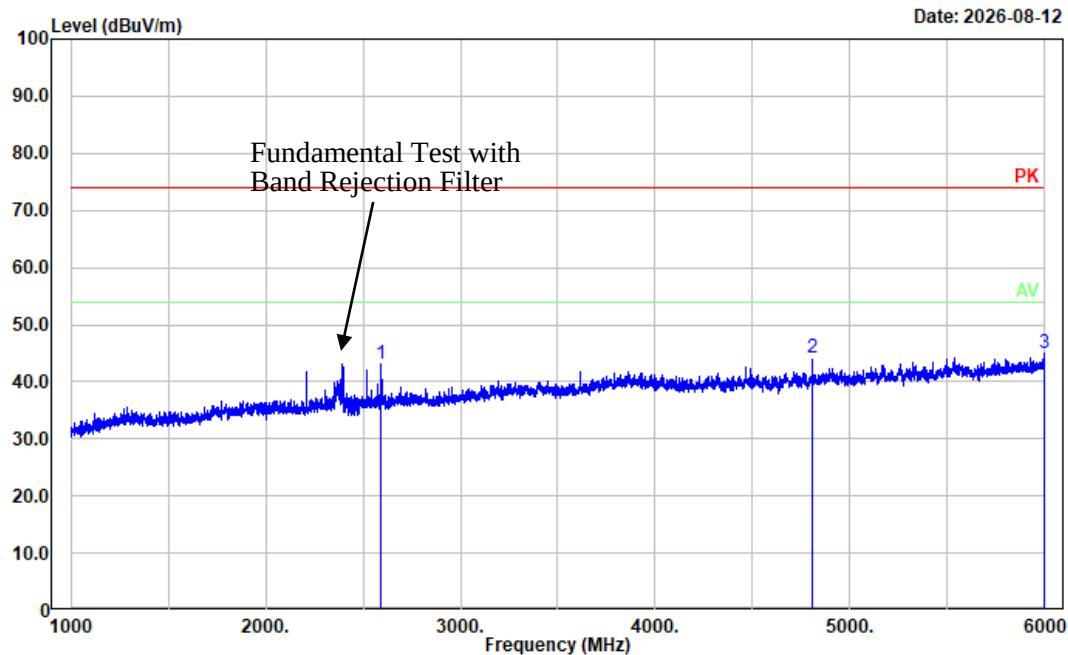
Worst radiation spurious emissions margin test plots for each mode for 1GHz ~18GHz:

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: BDR(DH5) Low Channel 2402 MHz



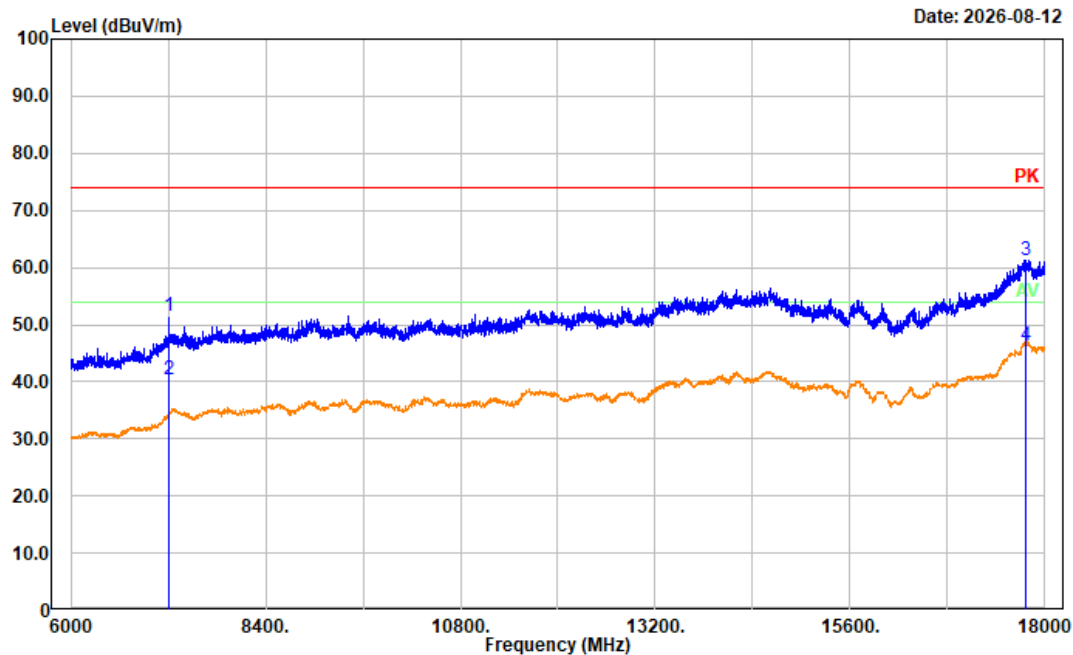
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2210.000	52.02	-3.03	48.99	74.00	25.01	Peak
2	2594.000	47.60	-1.69	45.91	74.00	28.09	Peak
3	4804.000	39.17	4.64	43.81	74.00	30.19	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: BDR(DH5) Low Channel 2402 MHz



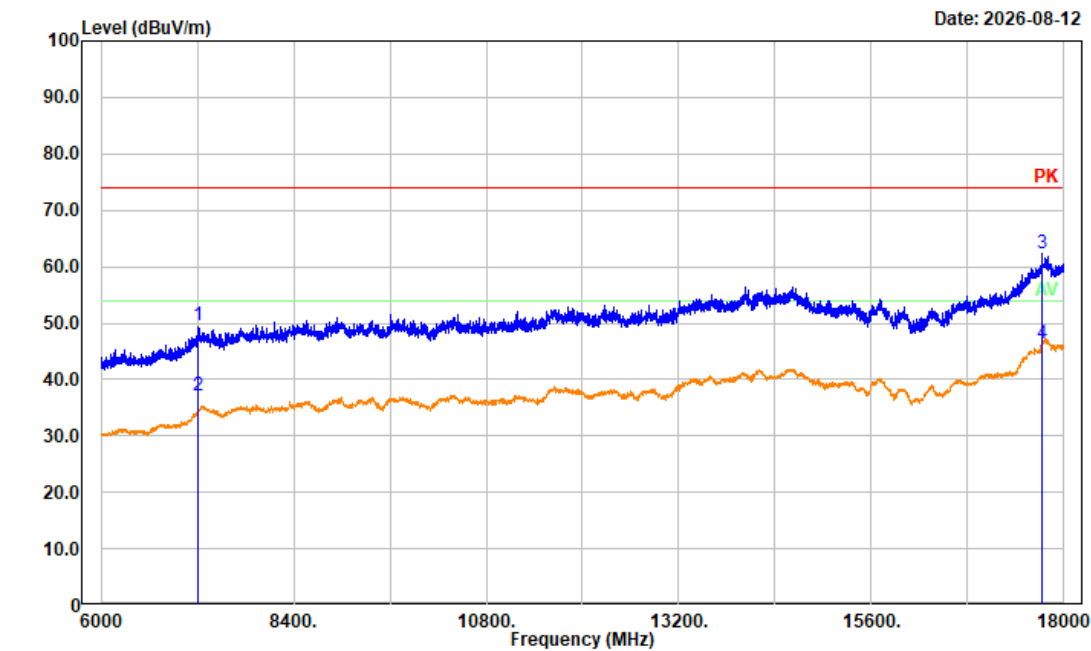
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2594.000	44.67	-1.69	42.98	74.00	31.02	Peak
2	4804.000	39.52	4.64	44.16	74.00	29.84	Peak
3	5998.000	37.29	7.71	45.00	74.00	29.00	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: BDR(DH5) Low Channel 2402 MHz



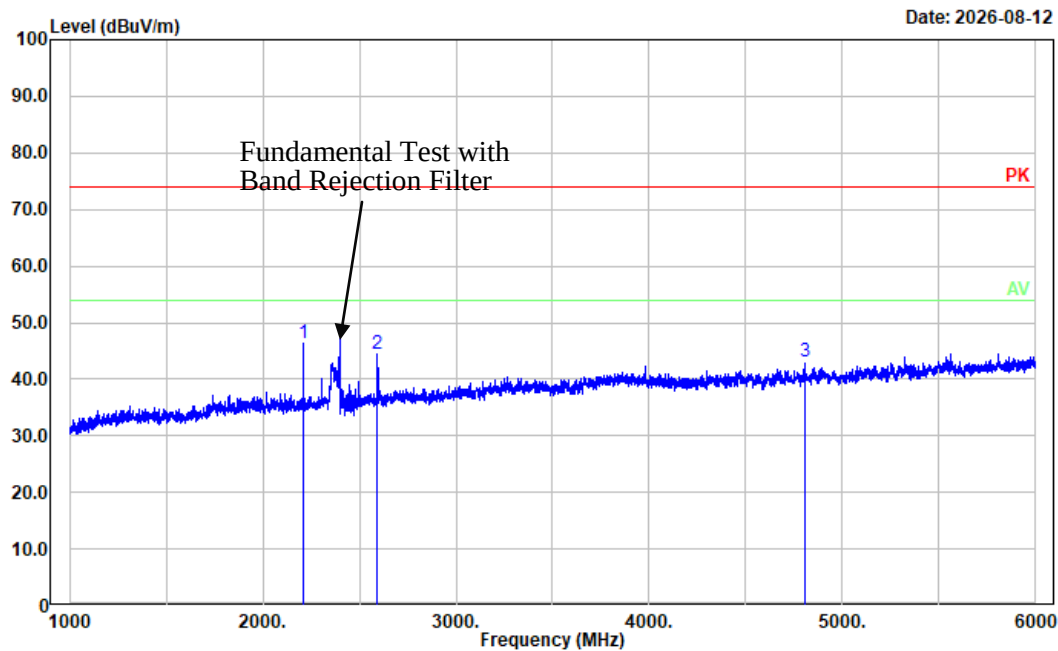
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	41.72	9.84	51.56	74.00	22.44	Peak
2	7206.000	30.42	9.84	40.26	54.00	13.74	Average
3	17764.800	40.06	21.23	61.29	74.00	12.71	Peak
4	17764.800	25.05	21.23	46.28	54.00	7.72	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: BDR(DH5) Low Channel 2402 MHz



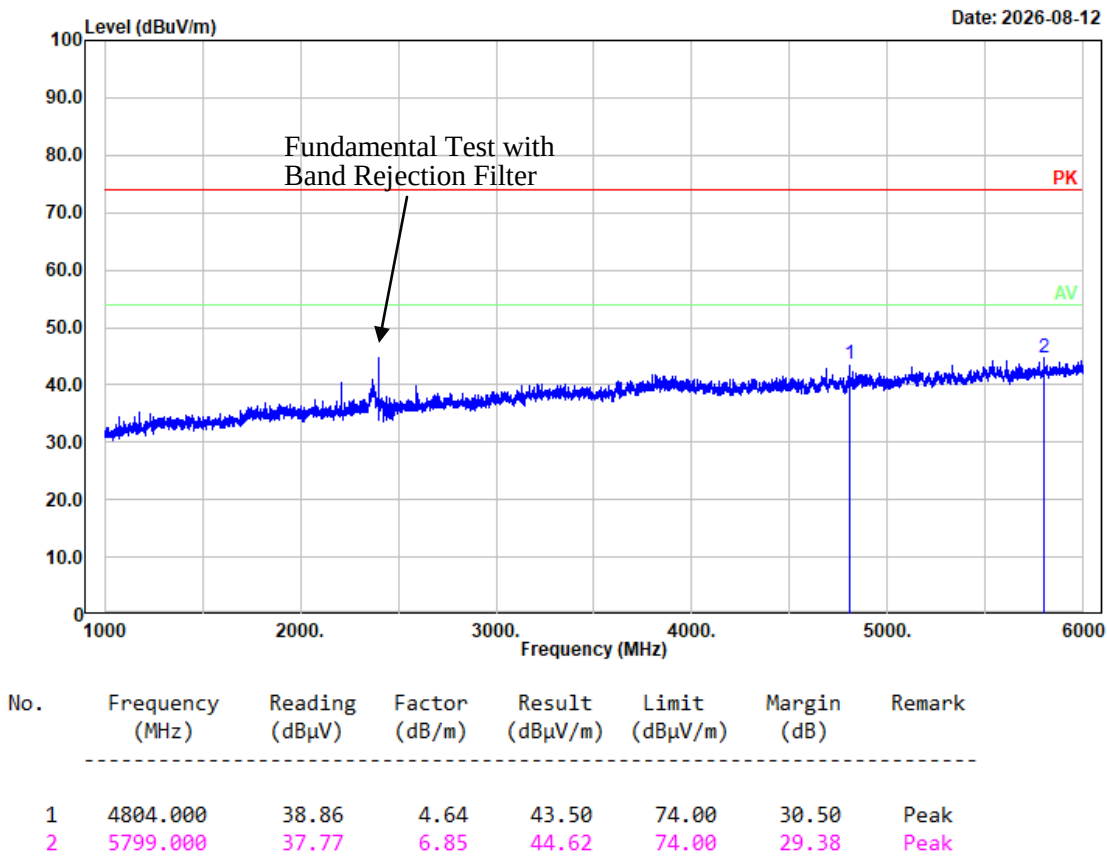
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	39.79	9.84	49.63	74.00	24.37	Peak
2	7206.000	27.22	9.84	37.06	54.00	16.94	Average
3	17728.800	41.11	21.11	62.22	74.00	11.78	Peak
4	17728.800	25.12	21.11	46.23	54.00	7.77	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: EDR(2DH5) Low Channel 2402 MHz

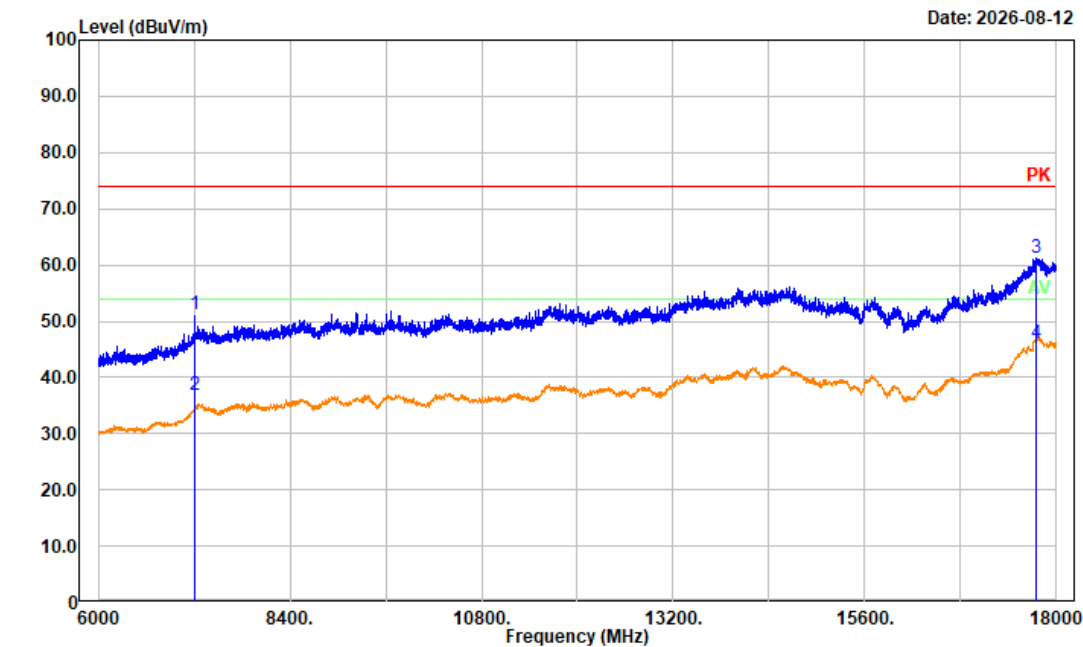


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2210.000	49.41	-3.03	46.38	74.00	27.62	Peak
2	2594.000	46.12	-1.69	44.43	74.00	29.57	Peak
3	4804.000	38.50	4.64	43.14	74.00	30.86	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: EDR(2DH5) Low Channel 2402 MHz

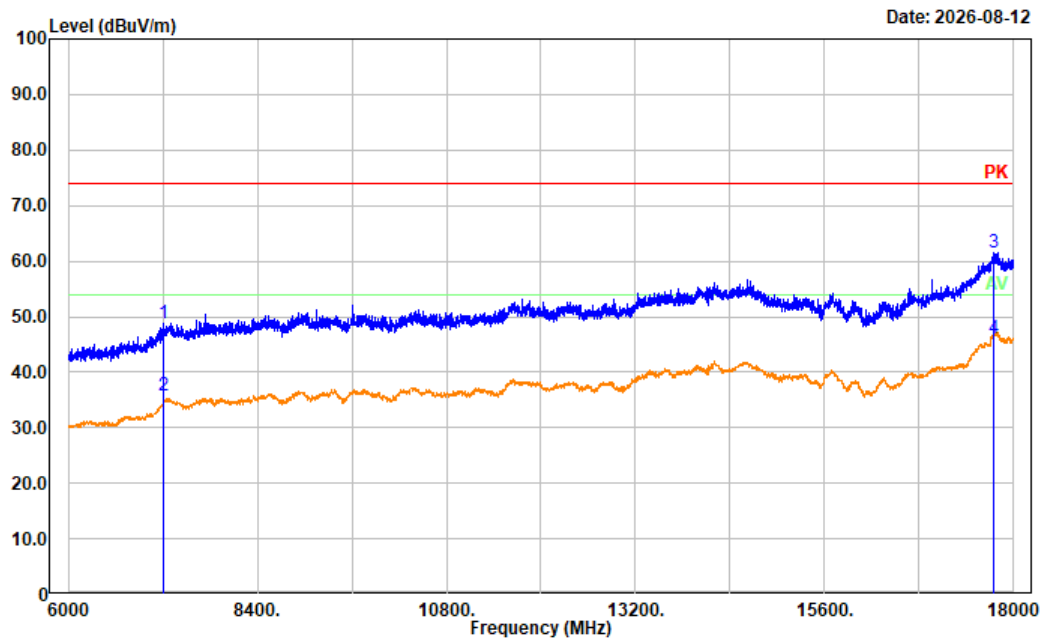


Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: EDR(2DH5) Low Channel 2402 MHz



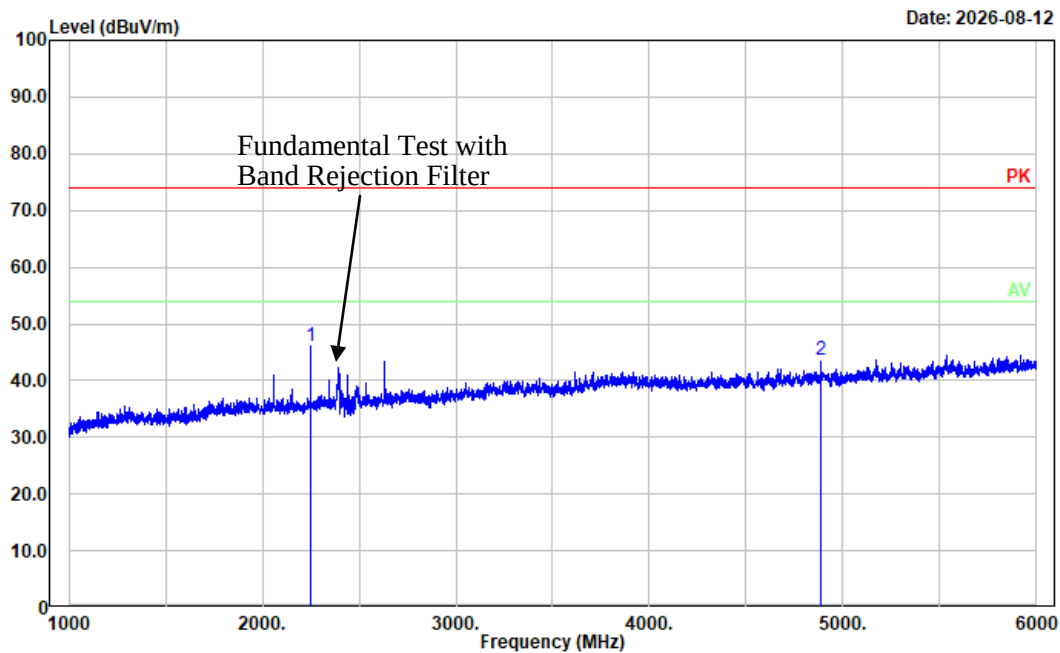
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	41.25	9.84	51.09	74.00	22.91	Peak
2	7206.000	27.10	9.84	36.94	54.00	17.06	Average
3	17748.000	39.96	21.17	61.13	74.00	12.87	Peak
4	17748.000	25.01	21.17	46.18	54.00	7.82	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: EDR(2DH5) Low Channel 2402 MHz



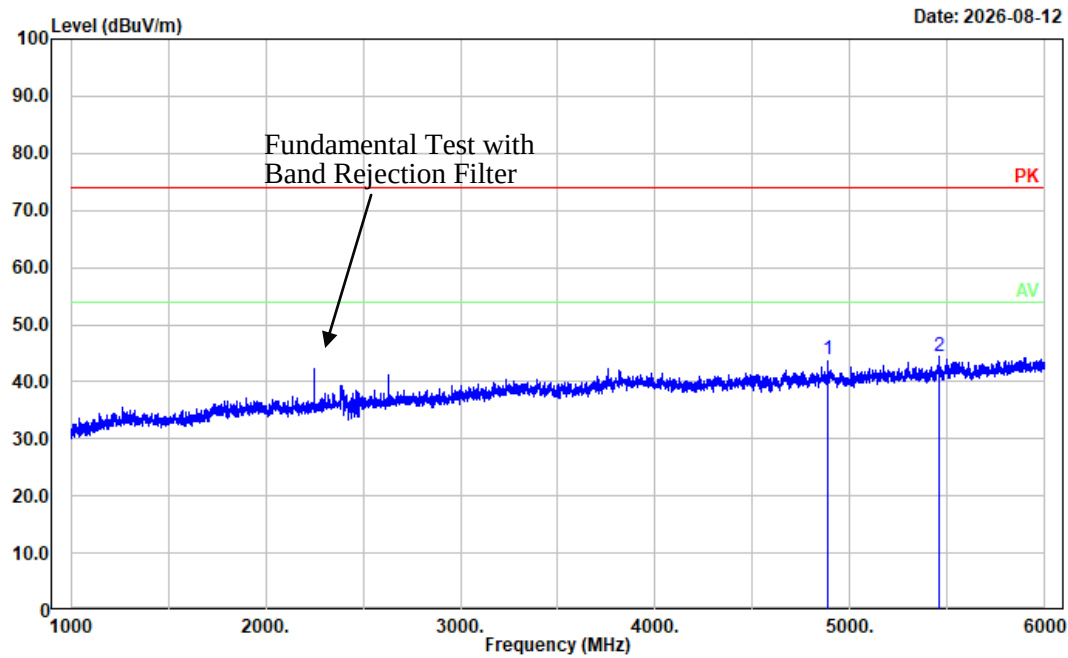
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	38.98	9.84	48.82	74.00	25.18	Peak
2	7206.000	25.96	9.84	35.80	54.00	18.20	Average
3	17743.200	40.44	21.16	61.60	74.00	12.40	Peak
4	17743.200	24.92	21.16	46.08	54.00	7.92	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: EDR(3DH5) Middle Channel 2441 MHz



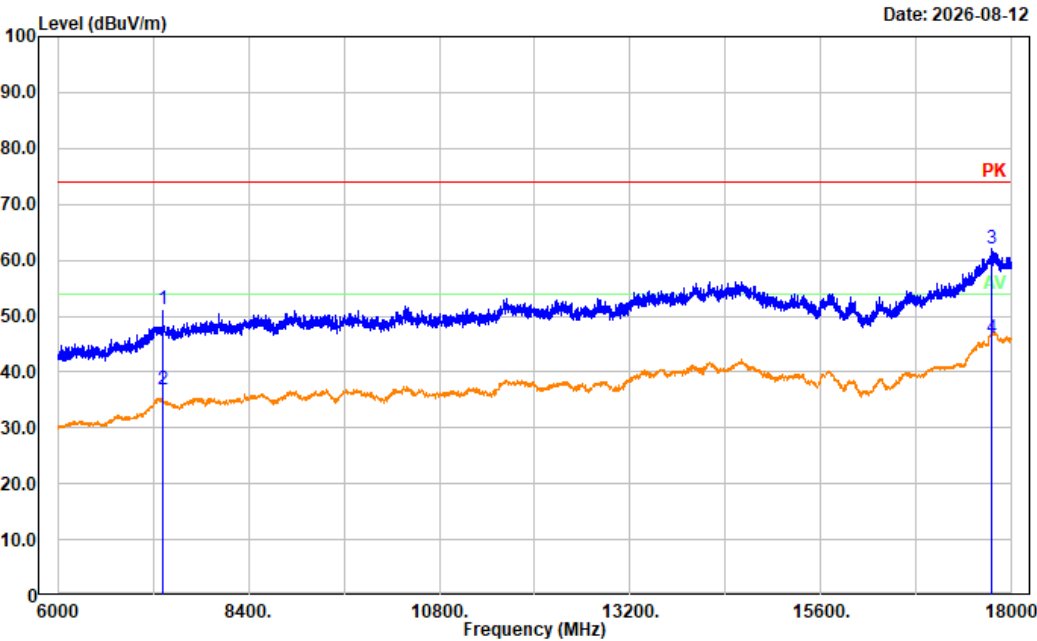
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2249.000	48.81	-2.75	46.06	74.00	27.94	Peak
2	4882.000	38.79	4.88	43.67	74.00	30.33	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: EDR(3DH5) Middle Channel 2441 MHz



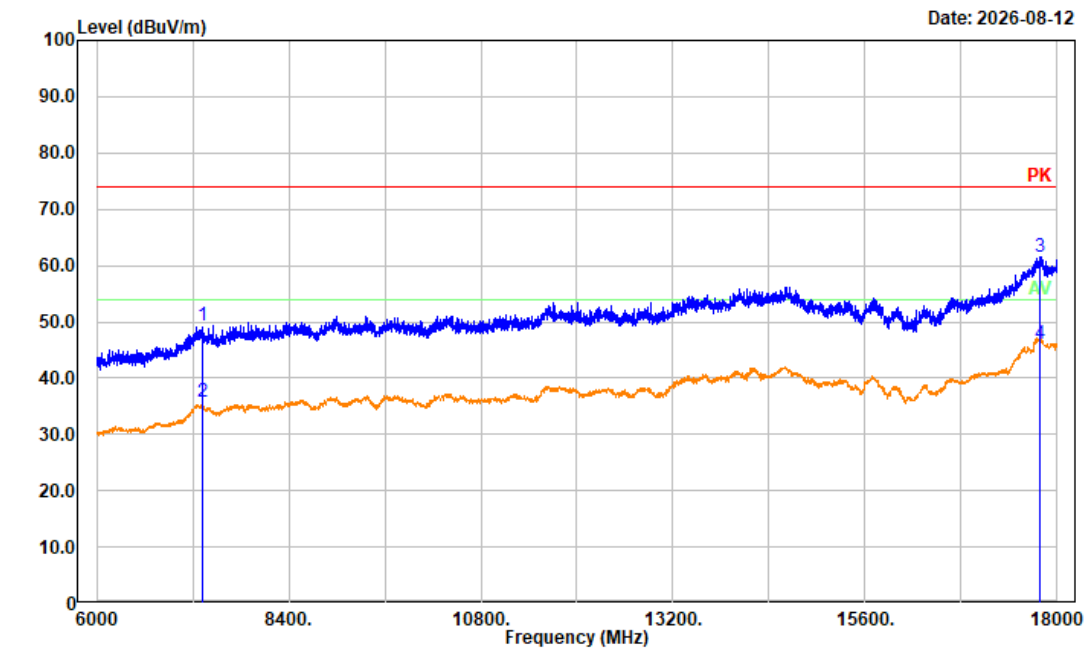
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4882.000	39.00	4.88	43.88	74.00	30.12	Peak
2	5460.000	37.83	6.69	44.52	74.00	29.48	Peak

Project No: 2603U65565E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
 Polarization: horizontal
 Note: EDR(3DH5) Middle Channel 2441 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7323.000	40.68	10.58	51.26	74.00	22.74	Peak
2	7323.000	26.28	10.58	36.86	54.00	17.14	Average
3	17750.400	40.80	21.18	61.98	74.00	12.02	Peak
4	17750.400	24.96	21.18	46.14	54.00	7.86	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: EDR(3DH5) Middle Channel 2441 MHz

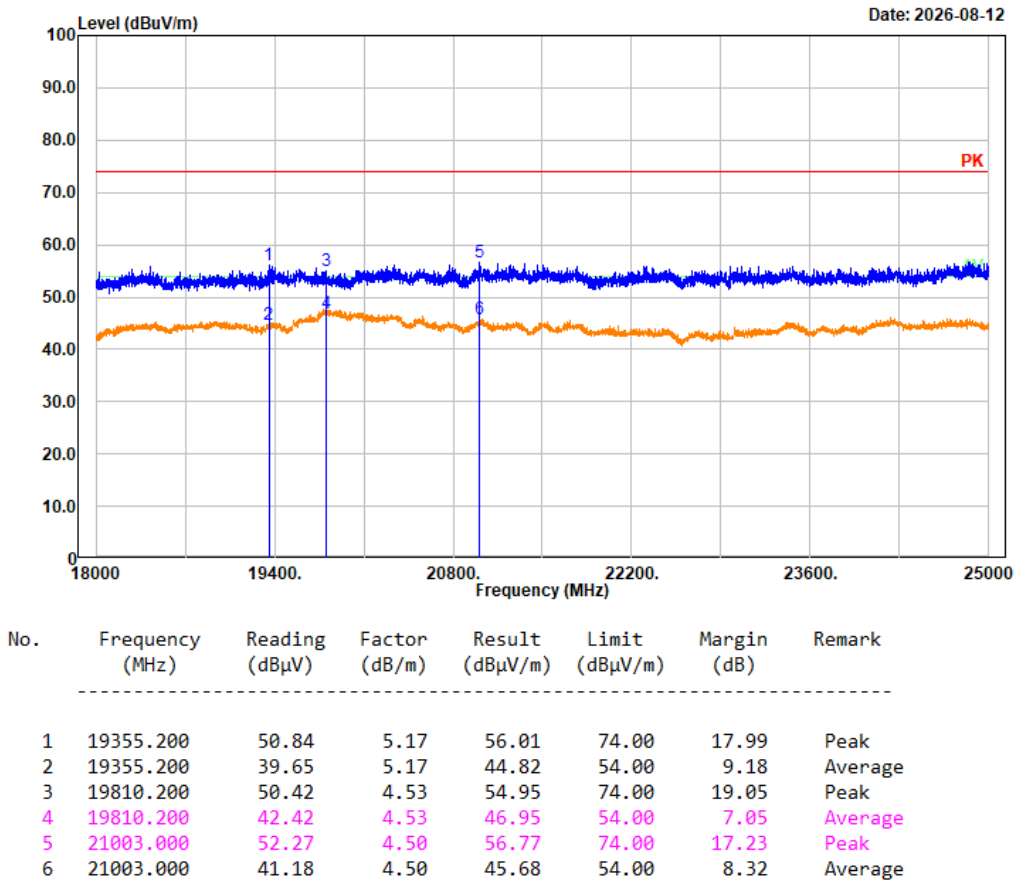


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7323.000	38.63	10.58	49.21	74.00	24.79	Peak
2	7323.000	25.29	10.58	35.87	54.00	18.13	Average
3	17791.200	40.11	21.32	61.43	74.00	12.57	Peak
4	17791.200	24.77	21.32	46.09	54.00	7.91	Average

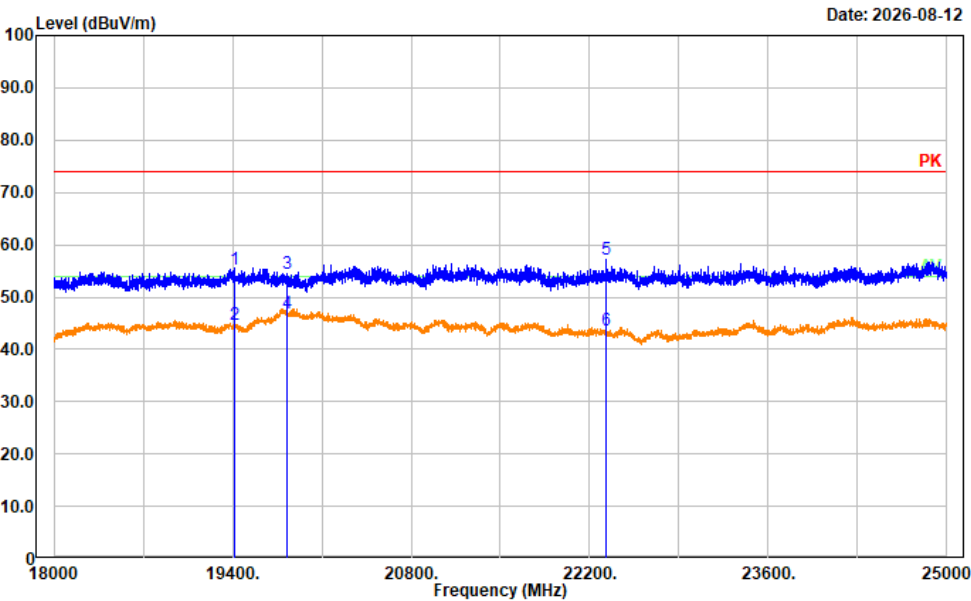
Test Plots for 18GHz ~ 25GHz:

Note: for 18 – 25 GHz range, test was performed on the maximum power mode and Channel.

Project No: 2603U65565E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
 Polarization: Horizontal
 Note: EDR(3DH5) Middle Channel 2441 MHz



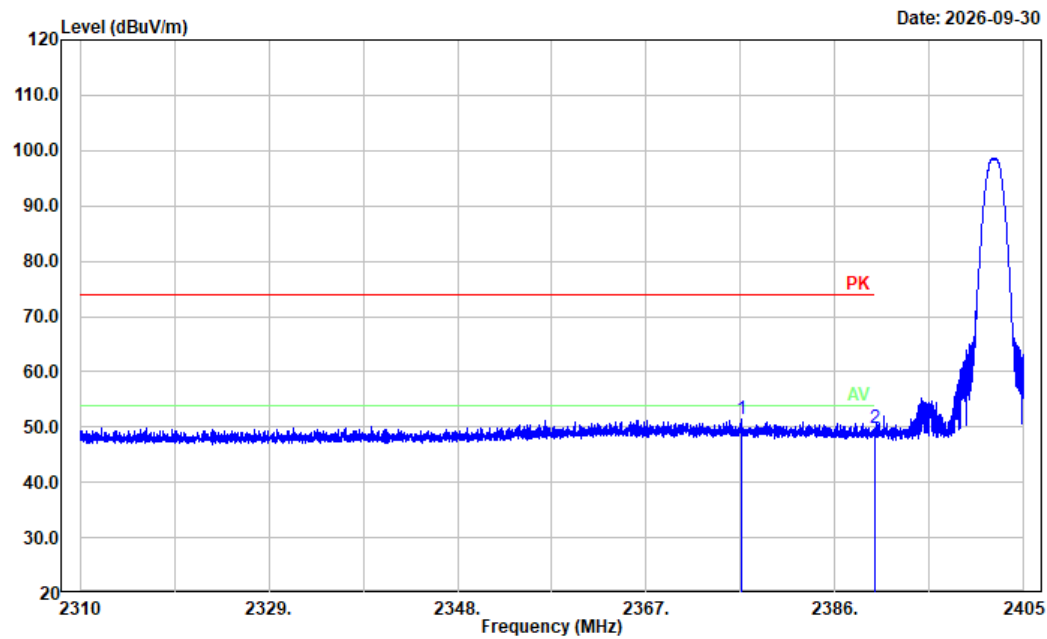
Project No: 2603U65565E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
 Polarization: Vertical
 Note: EDR(3DH5) Middle Channel 2441 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	19412.600	48.14	7.28	55.42	74.00	18.58	Peak
2	19412.600	37.43	7.28	44.71	74.00	29.29	Peak
3	19831.200	47.94	6.63	54.57	74.00	19.43	Peak
4	19831.200	40.25	6.63	46.88	74.00	27.12	Peak
5	22333.000	49.28	7.84	57.12	74.00	16.88	Peak
6	22333.000	35.73	7.84	43.57	74.00	30.43	Peak

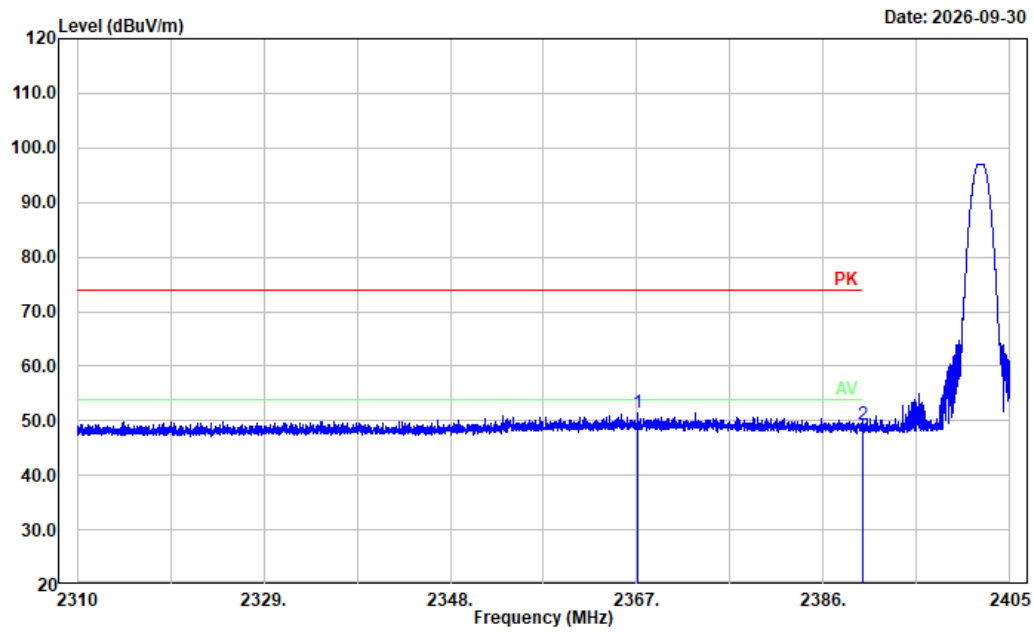
Band Edge Test Plots

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: BDR(DH5) Low Channel 2402 MHz



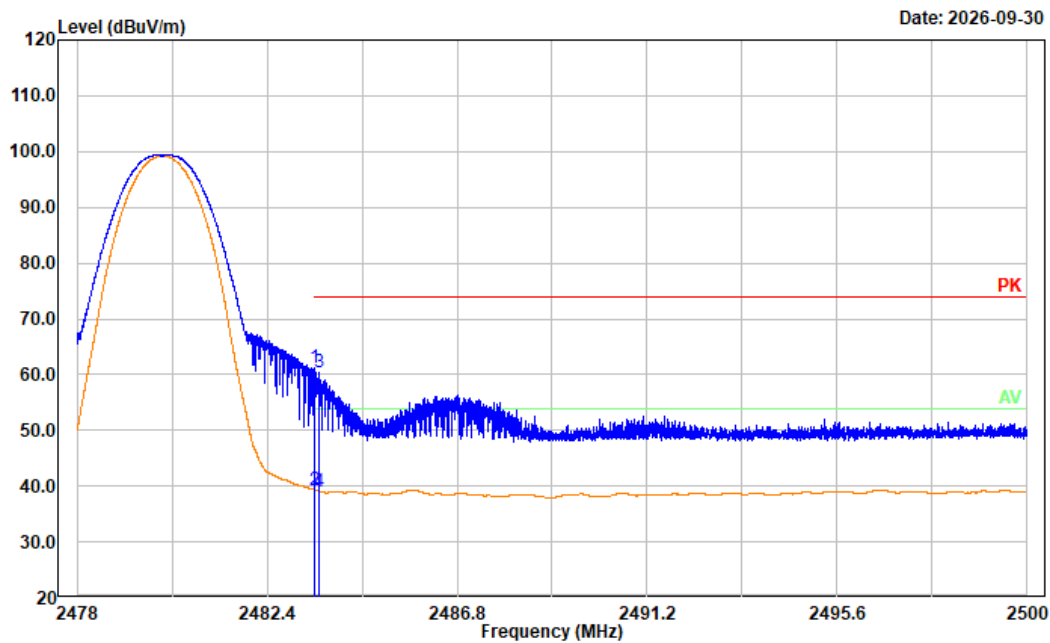
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2376.614	53.52	-2.21	51.31	74.00	22.69	Peak
2	2390.000	51.85	-2.14	49.71	74.00	24.29	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: BDR(DH5) Low Channel 2402 MHz



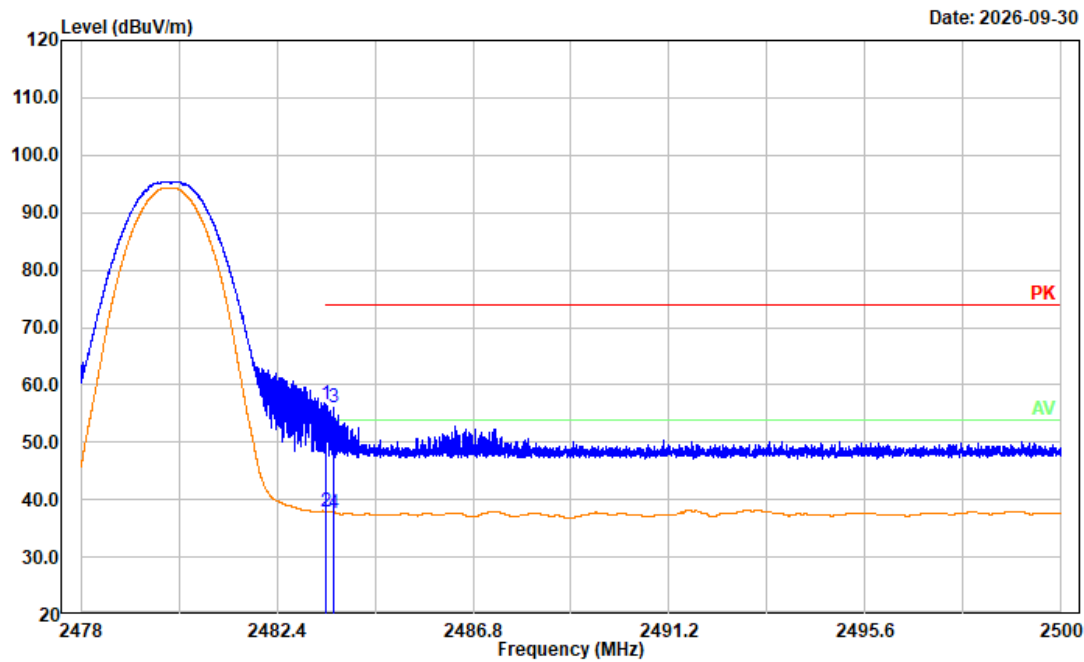
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2367.114	53.69	-2.26	51.43	74.00	22.57	Peak
2	2390.000	51.52	-2.14	49.38	74.00	24.62	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Horizontal
Note: BDR(DH5) High Channel 2480 MHz



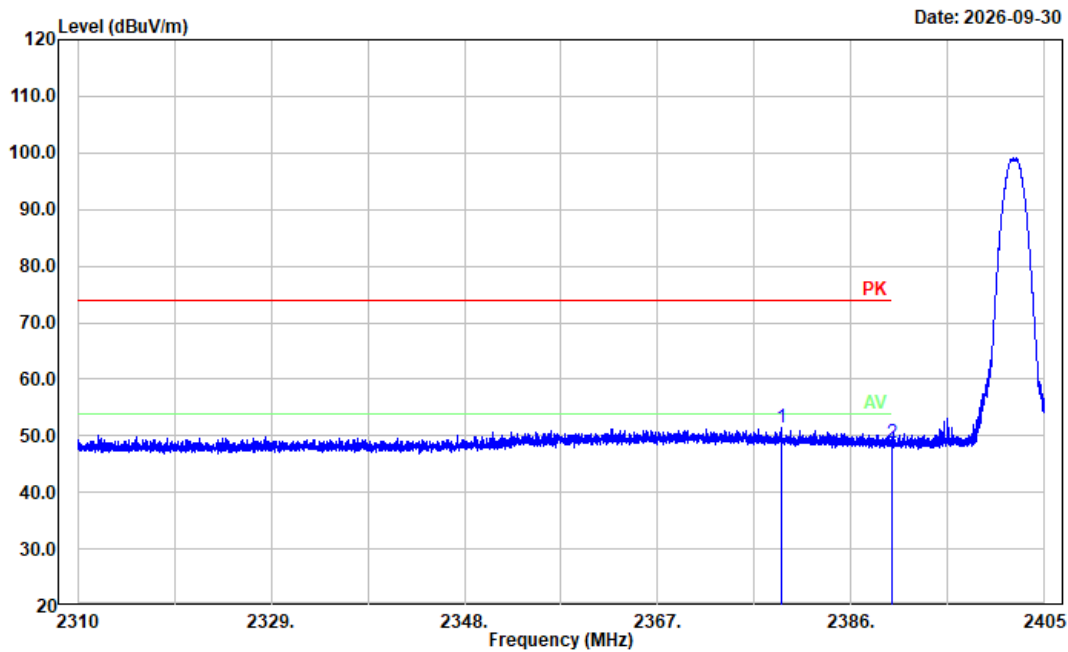
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	63.27	-2.17	61.10	74.00	12.90	Peak
2	2483.500	41.53	-2.17	39.36	54.00	14.64	Average
3	2483.619	62.50	-2.17	60.33	74.00	13.67	Peak
4	2483.619	41.18	-2.17	39.01	54.00	14.99	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Vertical
Note: BDR(DH5) High Channel 2480 MHz



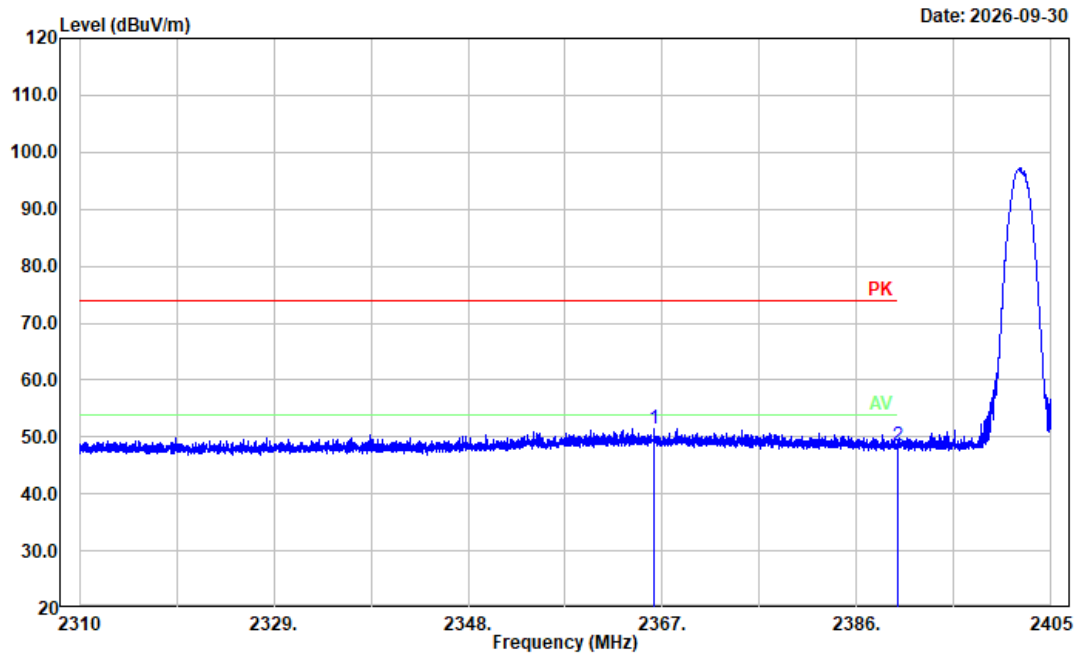
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	58.68	-2.17	56.51	74.00	17.49	Peak
2	2483.500	40.17	-2.17	38.00	54.00	16.00	Average
3	2483.667	58.24	-2.17	56.07	74.00	17.93	Peak
4	2483.667	39.68	-2.17	37.51	54.00	16.49	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: EDR(2DH5) Low Channel 2402 MHz



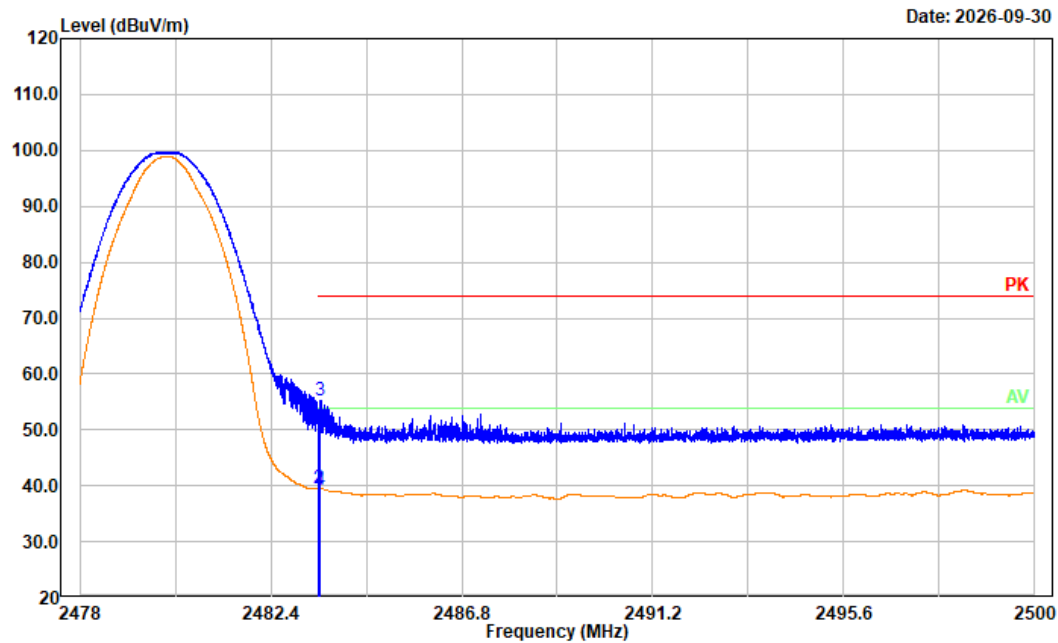
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2379.122	53.67	-2.20	51.47	74.00	22.53	Peak
2	2390.000	50.78	-2.14	48.64	74.00	25.36	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: EDR(2DH5) Low Channel 2402 MHz



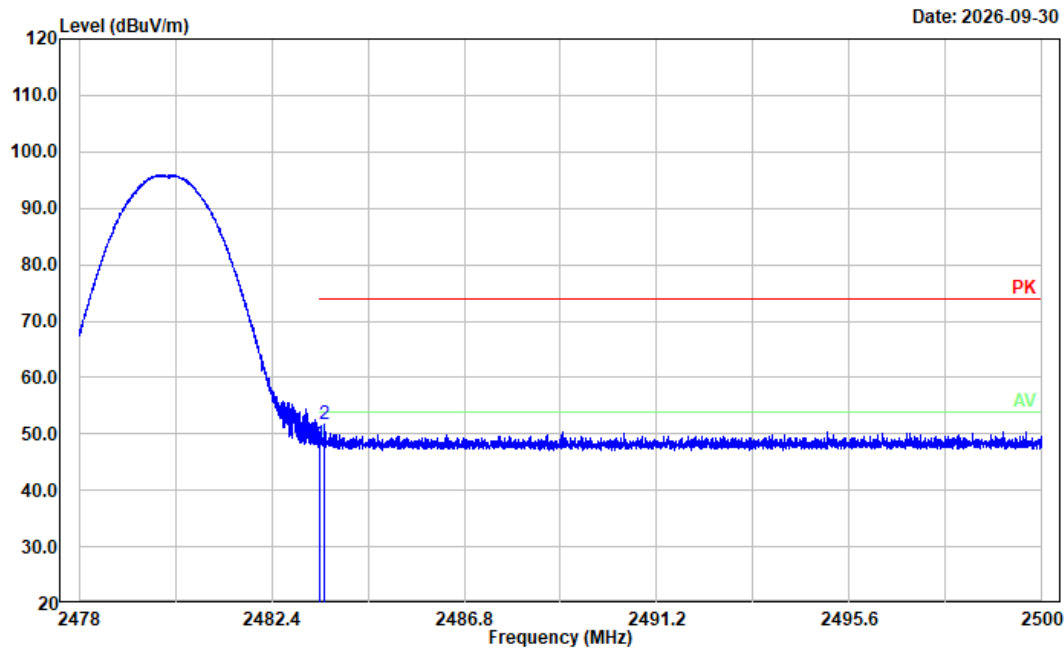
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2366.221	53.69	-2.27	51.42	74.00	22.58	Peak
2	2390.000	50.60	-2.14	48.46	74.00	25.54	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Horizontal
Note: EDR(2DH5) High Channel 2480 MHz



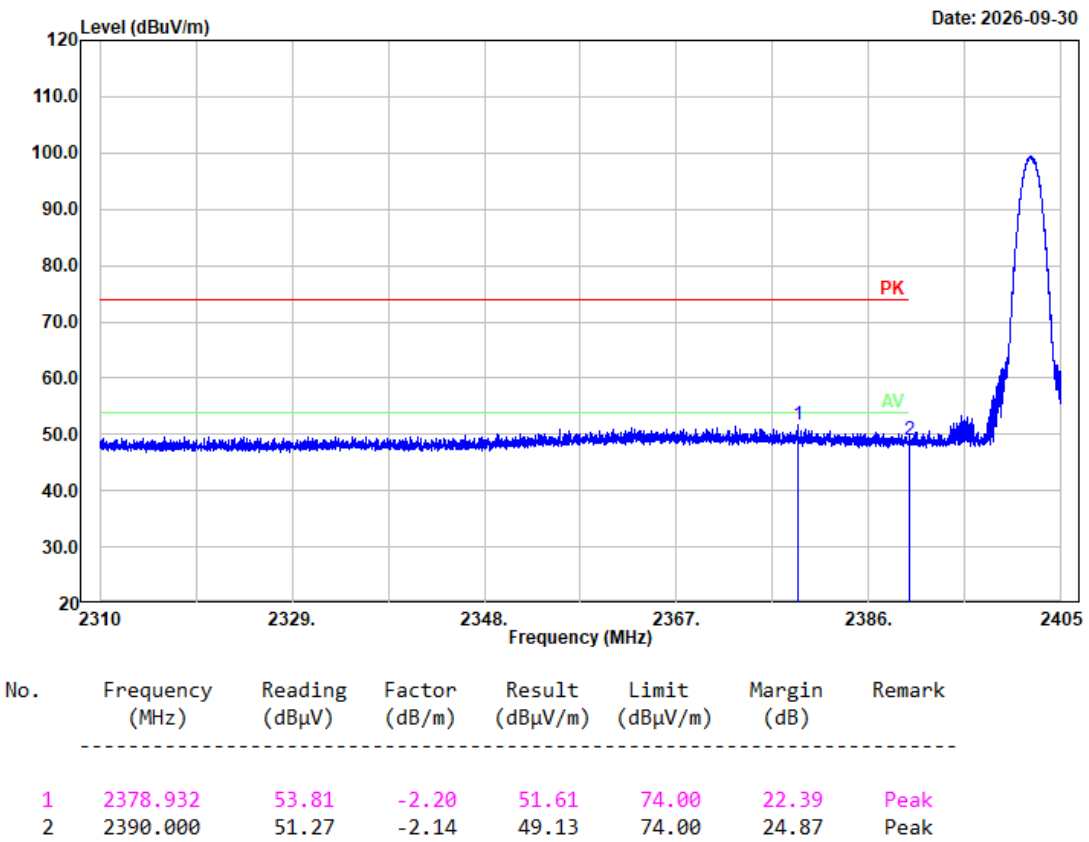
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	52.41	-2.17	50.24	74.00	23.76	Peak
2	2483.500	41.69	-2.17	39.52	54.00	14.48	Average
3	2483.548	57.46	-2.17	55.29	74.00	18.71	Peak
4	2483.548	41.38	-2.17	39.21	54.00	14.79	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: EDR(2DH5) High Channel 2480 MHz

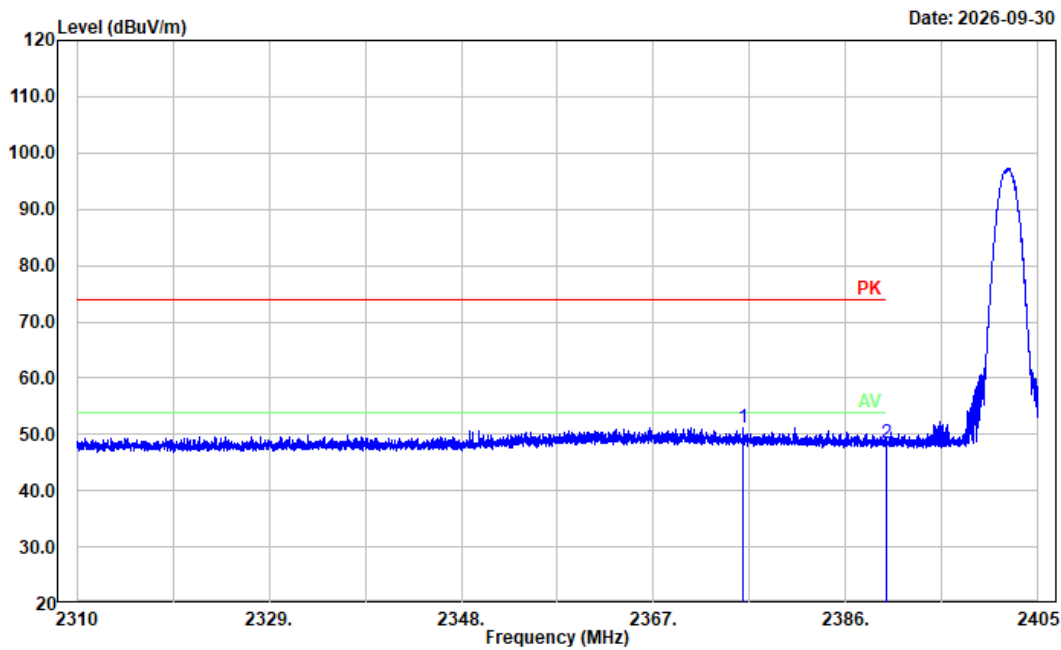


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	50.38	-2.17	48.21	74.00	25.79	Peak
2	2483.601	53.96	-2.17	51.79	74.00	22.21	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: EDR(3DH5) Low Channel 2402 MHz

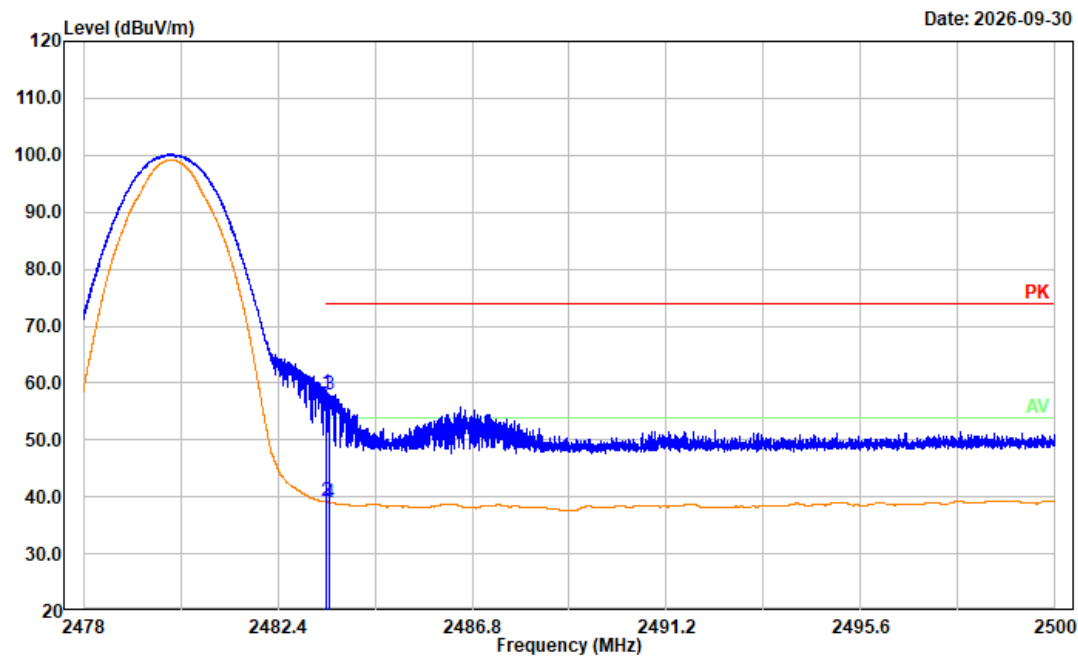


Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: EDR(3DH5) Low Channel 2402 MHz



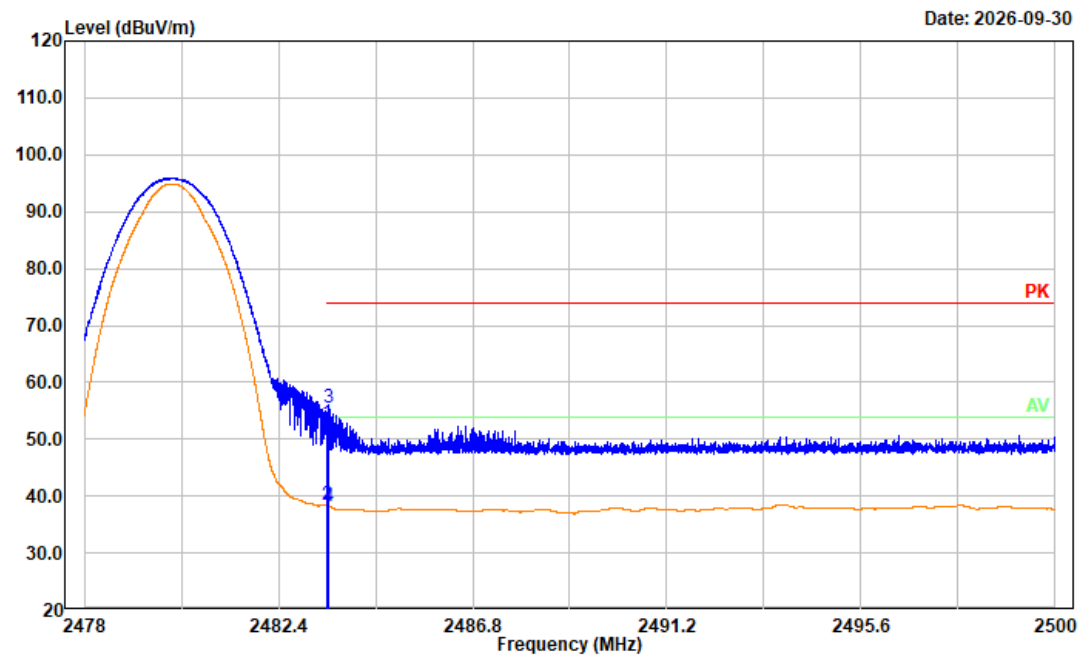
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2375.835	53.36	-2.22	51.14	74.00	22.86	Peak
2	2390.000	50.53	-2.14	48.39	74.00	25.61	Peak

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Horizontal
Note: EDR(3DH5) High Channel 2480 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	60.38	-2.17	58.21	74.00	15.79	Peak
2	2483.500	41.36	-2.17	39.19	54.00	14.81	Average
3	2483.579	60.14	-2.17	57.97	74.00	16.03	Peak
4	2483.579	41.14	-2.17	38.97	54.00	15.03	Average

Project No: 2603U65565E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Vertical
Note: EDR(3DH5) High Channel 2480 MHz



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	2483.500	55.05	-2.17	52.88	74.00	21.12	Peak
2	2483.500	40.48	-2.17	38.31	54.00	15.69	Average
3	2483.544	57.55	-2.17	55.38	74.00	18.62	Peak
4	2483.544	40.33	-2.17	38.16	54.00	15.84	Average

4.2 RF Conducted Data

Please refer to Annex "2603U65565E-RF-00A_Appendix A" for detail test data.

5. RF EXPOSURE EVALUATION

5.1 SAR EVALUATION

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.

Measurement Result

Frequency (MHz)	Conducted Output Power Including Tolerance		Distance (mm)	Calculated Value	Threshold (1-g)	SAR Test Exclusion
	(dBm)	(mW)				
2402-2480	4	2.51	5	0.8	3	Yes

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

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

5.2 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION

Applicable Standard

RSS-102, Issue 6, Clause 6.3:

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

Measurement Result:

The max tune-up conducted power is 4.0dBm(2.51mW), Antenna Gain: -2.3dBi, EIRP is 1.7dBm(1.48mW)

Note: the max conducted power including tune-up tolerance was declared by manufacturer.

The exemption power(P) limits for routine evaluation in 2402-2480MHz is:

$$(2480-2450)/(3500-2450) = (P - 3)/(2 - 3)$$

$$\Rightarrow P = 2.97 \text{ mW@2480 MHz}$$

$$> 2.51 \text{ mW}$$

So, the stand-alone SAR test can be exempted.

6. EUT PHOTOGRAPHS

Please refer to the attachment 2603U65565E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2603U65565E-RF-INP EUT INTERNAL PHOTOGRAPHS.

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2603U65565E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

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