

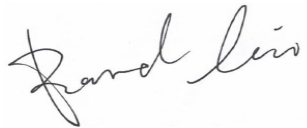
FCC PART 15.247 TEST REPORT

For

WISEASY TECHNOLOGY PTE. LTD.

70 Anson Road, #18-02, Hub Synergy Point, Singapore 079905

FCC ID: 2BFPO-R010

Report Type: Original Report	Product Name: Smart Reader
Report Number: <u>RKSA250928001-00C</u>	
Report Date: <u>2025-11-06</u>	
Reviewed By:	<u>Bard Liu</u> 
Approved By:	<u>Kyle Xu</u> 
Test Laboratory: Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn	

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA250928001-00C	R1V1	2025-11-06	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	WISEASY TECHNOLOGY PTE. LTD.
Tested Model:	R010
Product Name:	Smart Reader
Power Supply:	DC 5V from adapter or DC 3.85V from battery
Maximum Output Power:	GFSK: 10.0 dBm $\pi/4$ -DQPSK: 9.21 dBm 8DPSK: 9.8 dBm
RF Function:	Classic BT
Operating Band/Frequency:	2402-2480 MHz
Channel Number:	79
Channel Separation:	1 MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
★Maximum Antenna Gain:	0.92 dBi

Adapter-1 Information:

Model: TPA-418G050100UU01

Input: 100-240V, 50/60Hz, 0.3A

Output: 5.0V, 1.0A, 5.0W

Adapter-2 Information:

Model: TPA-418G050200UU01

Input: 100-240V, 50/60Hz, 0.3A

Output: 5.0V, 2.0A, 10.0W

Note: The maximum antenna gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RKSA250928001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-09-28.)

Objective

This test report is prepared for *WISEASY TECHNOLOGY PTE. LTD.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine Compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	...	...
...	...	...	...
...	...	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

RF Test Tool: engineering mode

★Power level: 9

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

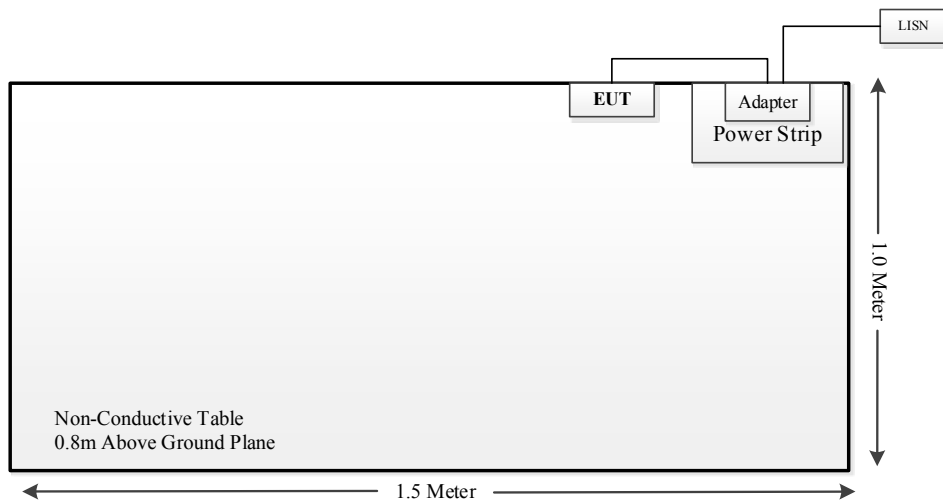
No modification was made to the EUT tested.

Support Equipment List and Details

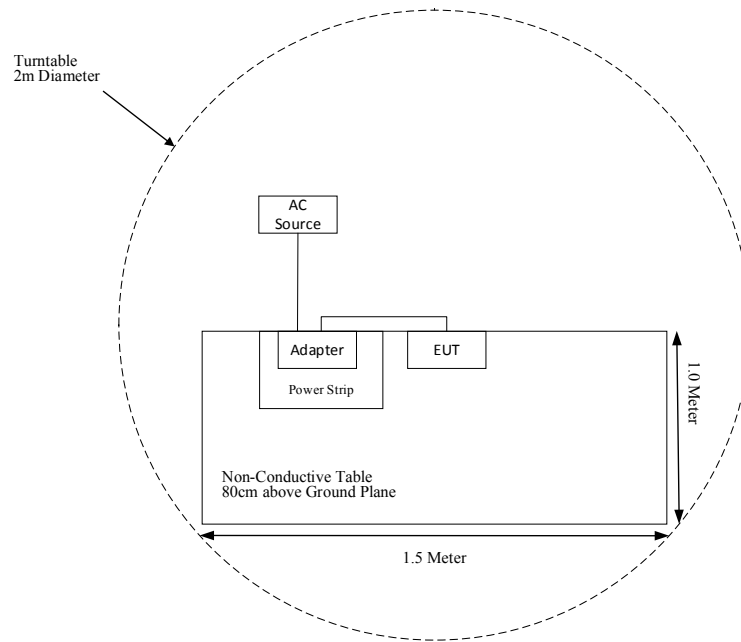
Manufacturer	Description	Model	Serial Number
/	Power Strip	/	/

External I/O Cable

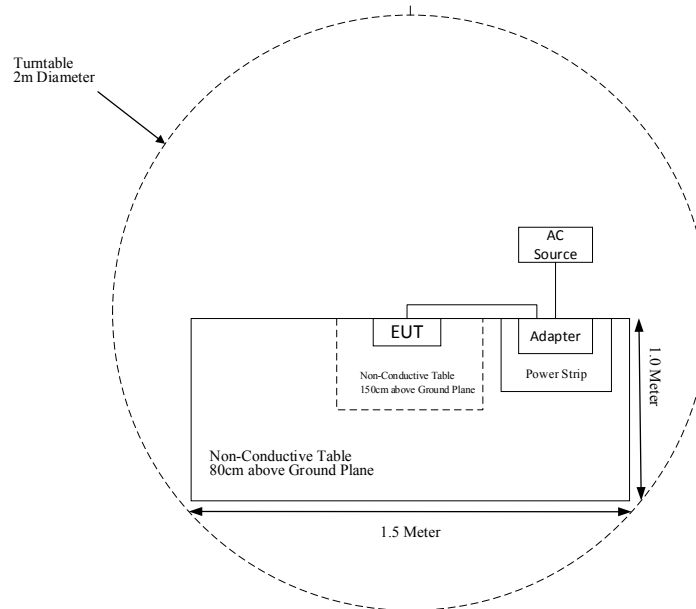
Cable Description	Length (m)	From Port	To Port
Power Cable	1.0	AC Source	Power Strip
USB Cable	1.5	Adapter	EUT

Block Diagram of Test Setup**For Conducted Emissions:**

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)(1)& §2.1093	RF EXPOSURE	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions & Restricted Bands Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges & Conducted Spurious Emission	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-12-02	2025-12-01
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
SELECTOR	Amplifier	EM18G40G	060726	2025-04-09	2026-04-08
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2025-04-08	2026-04-07
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Anritsu	Power Sensor	MA24418A	12621	2025-04-09	2026-04-08

Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2025-04-08	2026-04-07
Rohde & Schwarz	LISN	ENV216	101115	2025-04-08	2026-04-07
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2025-04-08	2026-04-07
MICRO-COAX	Coaxial Cable	Cable-15	015	2025-04-08	2026-04-07

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1307, §2.1093.

Measurement Result

Result: Please refer to the SAR report: RKSA250820001-20B.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to 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.

Antenna Connector Construction

The EUT have an FPC antenna which permanently attached to the unit. Fulfill the requirement of this section. Please refer to the EUT photos.

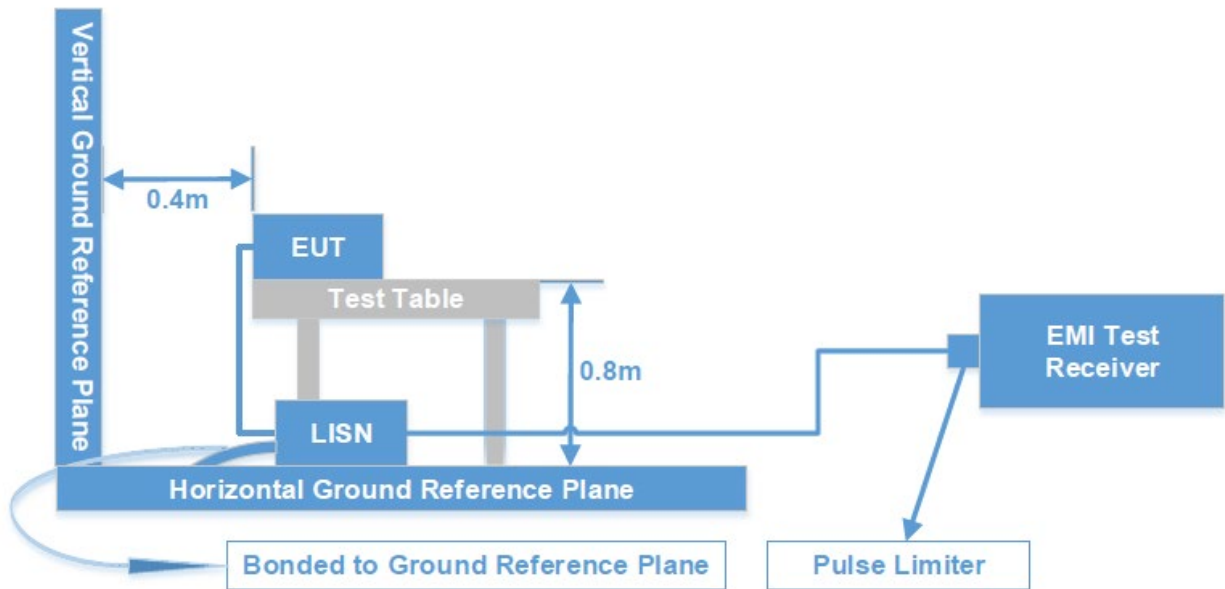
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2020. The related limit was specified in FCC Part 15.207.

EMI Test Receiver Setup

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

Frequency Range	RBW	VBW
150 kHz - 30 MHz	9 kHz	30 kHz

Test Procedure

ANSI C63.10-2020 clause 6.2

During the conducted emission test, the EUT or adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Level (dB}\mu\text{V)} &= \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Level (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)}$$

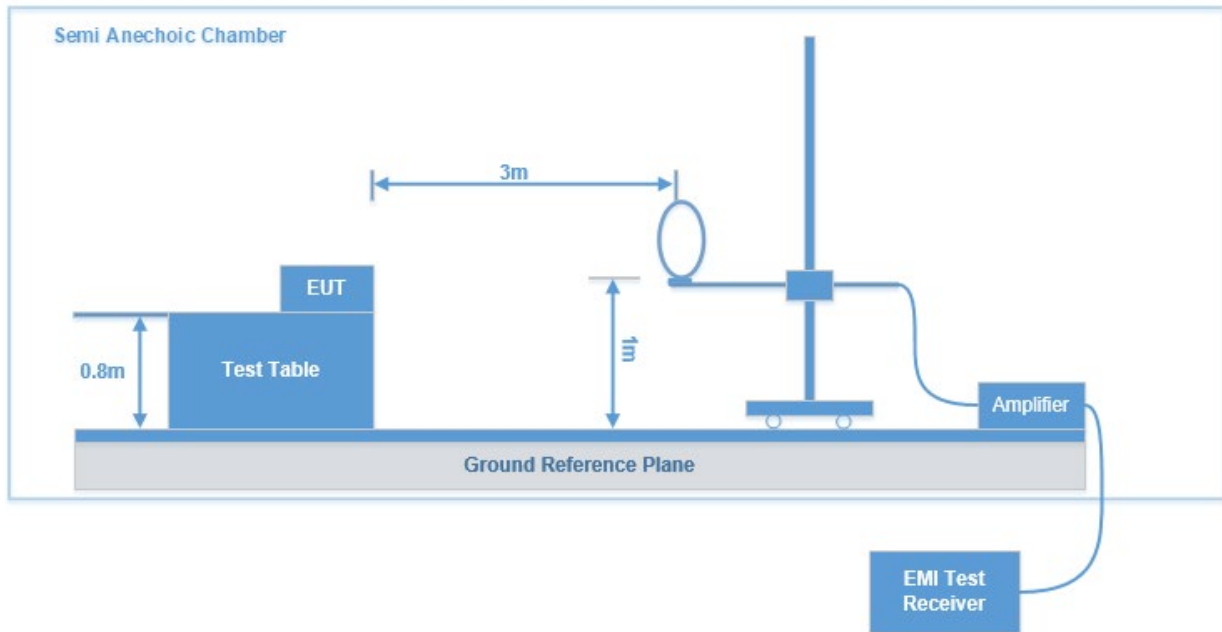
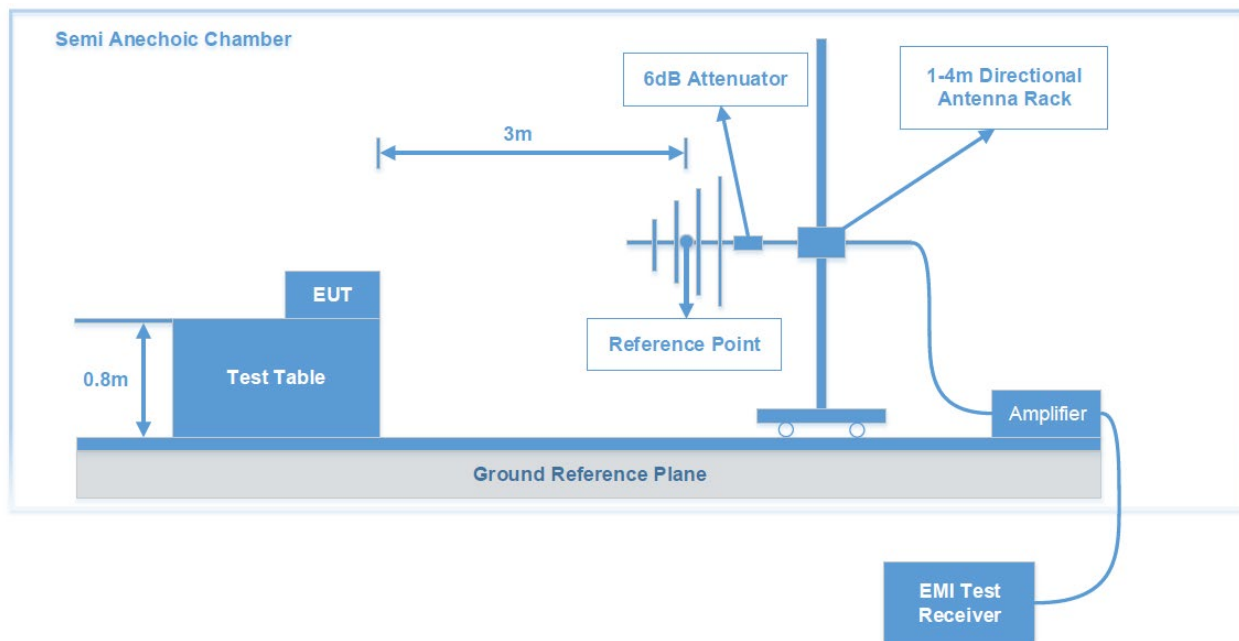
Test Results Summary

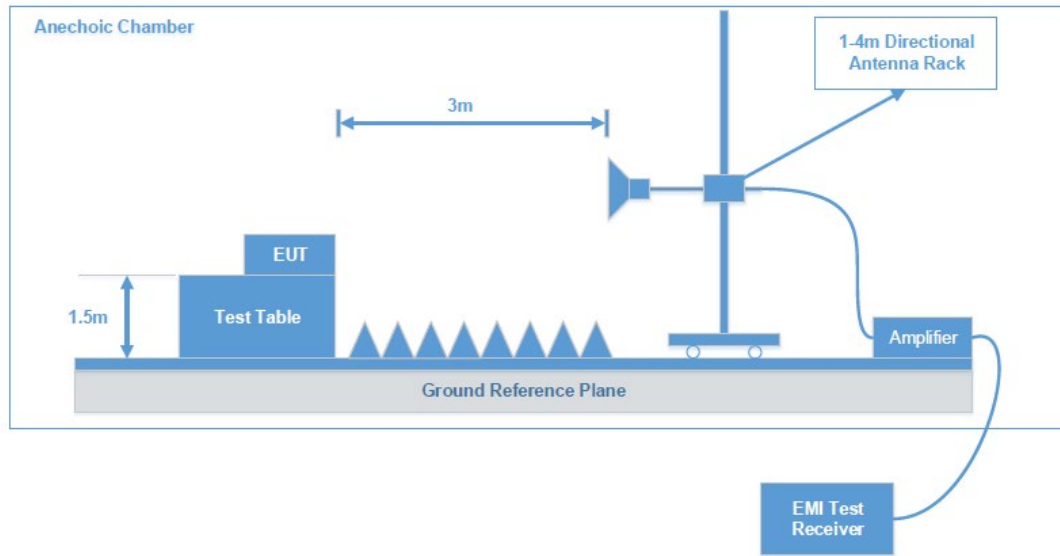
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS**Applicable Standard**

FCC §15.205; §15.209; §15.247(d)

Test System Setup**9 kHz - 30 MHz:****30 MHz - 1 GHz:**

Above 1 GHz:

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver Setup

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

Frequency Range	RBW	VBW	IF B/W	Measurement	Detector
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	Peak/QP/Average	Peak/QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	Peak/QP/Average	Peak/QP/Average
30 MHz - 1000 MHz	100 kHz	300 kHz	/	Peak	Peak
	/	/	120 kHz	QP	QP
Above 1GHz	1MHz	3 MHz	/	Peak	Peak
	1MHz	3 MHz	/	Average	Average

Test Procedure

According to ANSI C63.10-2020 clause 6.4, 6.5 and 6.6.

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

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

For 9 kHz-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.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude (dB}\mu\text{V/m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V/m)}$$

Note: The QuasiPeak (dB μ V/m), MaxPeak (dB μ V/m), Average (dB μ V/m) which shown in the data table are all Corrected Amplitude.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

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.

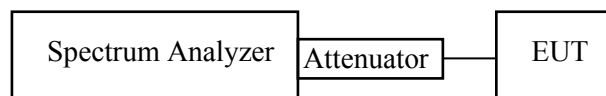
Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.2

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

- Span: Wide enough to capture the peaks of two adjacent channels.
- 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.
- Video (or average) bandwidth (VBW) $\geq$ RBW.
- Sweep: Auto.
- Detector function: Peak.
- Trace: Max hold.
- Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Datd: See Appendix

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

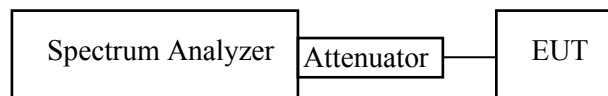
Applicable Standard

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.

Test Procedure

According to ANSI C63.10-2020 sub-clause 6.9.2

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



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Datd: See Appendix

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

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.

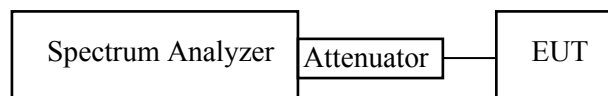
Test Procedure

According to ANSI C63.10-2020 sub-clause 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.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Datd: See Appendix

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

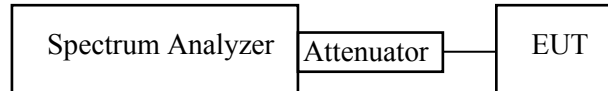
Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions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

Test Procedure

According to ANSI C63.10-2020 sub-clause 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 $\geq 1 / T$, 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.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Datd: See Appendix

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

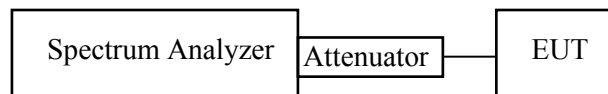
According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.5

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: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Datd: See Appendix

FCC §15.247(d) - BAND EDGES & CONDUCTED SPURIOUS EMISSION

Band Edges

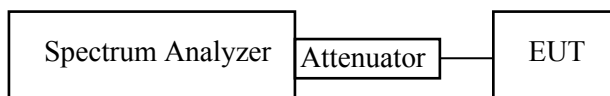
Applicable Standard

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)).

Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.7

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Conducted Spurious Emission

Applicable Standard

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)).

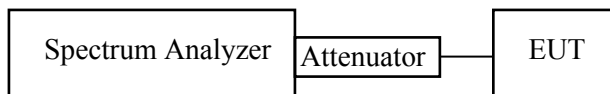
Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.7.1

To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.

The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.



Note: Offset (11dB) = Attenuator (10dB) + Cable Loss (1.0dB)

Test Datd: See Appendix

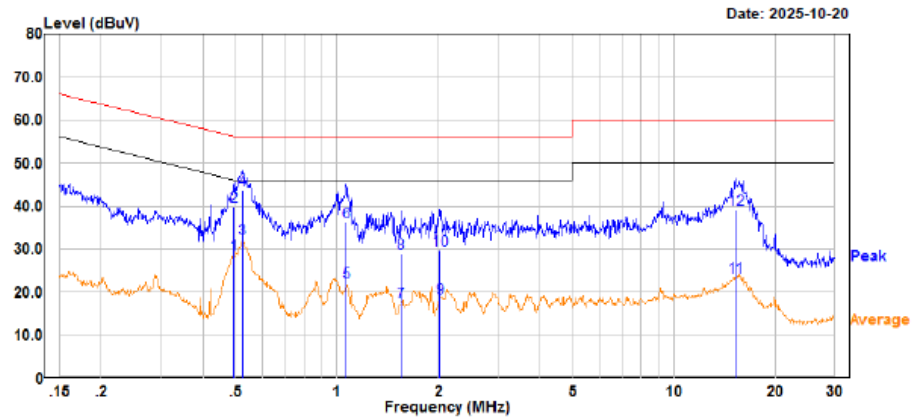
APPENDIX - TEST DATA

AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

Test Date:	2025-10-20 to 2025-10-21
Temperature:	24.9 °C
Relative Humidity:	60 %
ATM Pressure:	101.7 kPa
Test Result:	Pass
Test Engineer:	Jack He

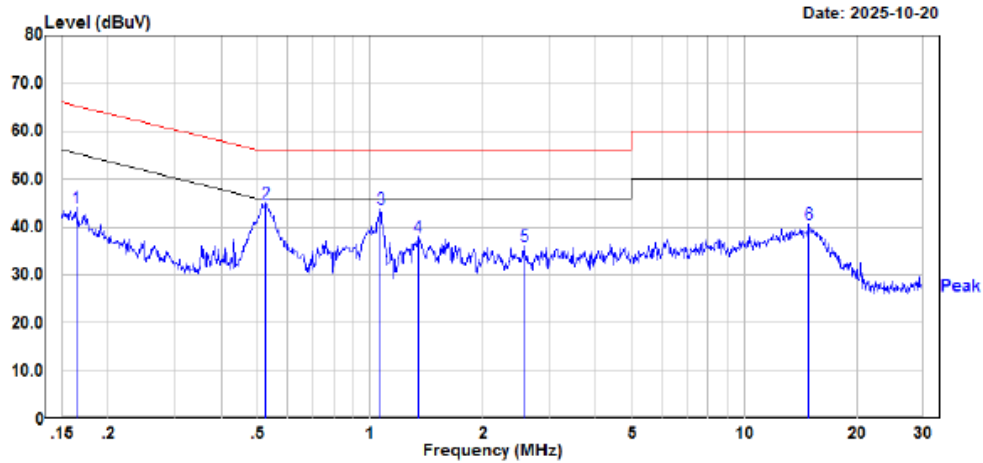
EUT operation mode: Transmitting in GFSK Mode middle channel (maximum output power mode)
Adapter-1



Trace: 1

Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Line
: DET:Peak
Project No. : RKSA250928001
Model : R010
Phase : L
Voltage : 120V/60Hz
Mode : BT
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 24.9℃
Humidity : 60%
Atmospheric pressure: 101.7kPa
Test Engineer : Jack He

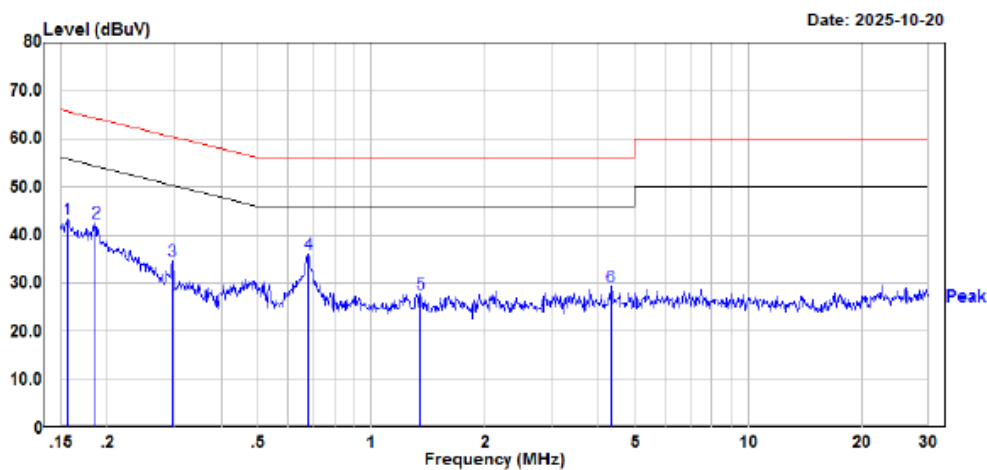
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB	dBuV	dB	
1	0.494	8.60	20.18	28.78	46.11	-17.33	Average
2	0.494	19.70	20.18	39.88	56.11	-16.23	QP
3	0.524	12.30	20.18	32.48	46.00	-13.52	Average
4	0.524	23.50	20.18	43.68	56.00	-12.32	QP
5	1.064	2.00	20.18	22.18	46.00	-23.82	Average
6	1.064	16.20	20.18	36.38	56.00	-19.62	QP
7	1.546	-2.69	20.24	17.55	46.00	-28.45	Average
8	1.546	8.71	20.24	28.95	56.00	-27.05	QP
9	2.023	-1.60	20.30	18.70	46.00	-27.30	Average
10	2.023	9.40	20.30	29.70	56.00	-26.30	QP
11	15.231	3.10	20.28	23.38	50.00	-26.62	Average
12	15.231	18.80	20.28	39.08	60.00	-20.92	QP



Site : CE
 Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Neutral
 : DET:Peak
 Project No. : RKSA250928001
 Model : R010
 Phase : N
 Voltage : 120V/60Hz
 Mode : BT
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
 Temperature : 24.9℃
 Humidity : 60%
 Atmospheric pressure: 101.7kPa
 Test Engineer : Jack He

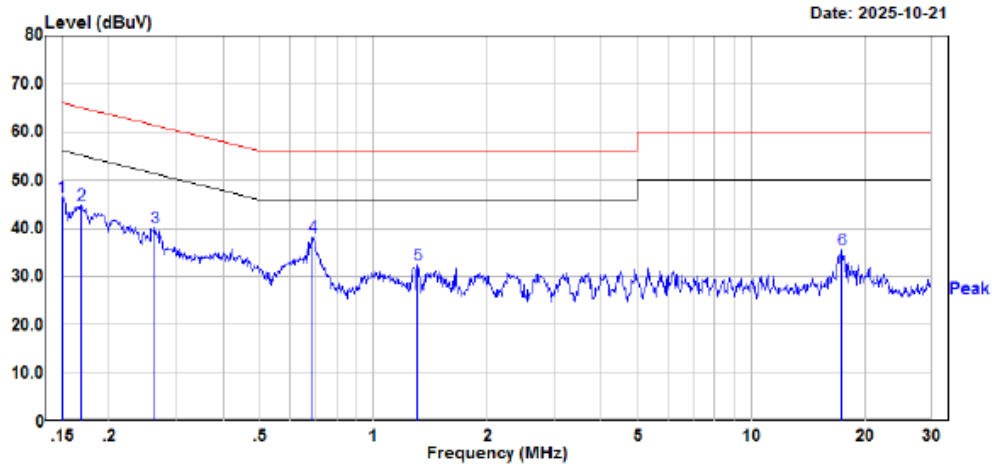
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB	dBuV	dB	
1	0.164	23.59	20.41	44.00	65.25	-21.25	Peak
2	0.527	24.72	20.21	44.93	56.00	-11.07	Peak
3	1.064	23.57	20.19	43.76	56.00	-12.24	Peak
4	1.344	17.63	20.22	37.85	56.00	-18.15	Peak
5	2.570	15.73	20.26	35.99	56.00	-20.01	Peak
6	14.856	20.24	20.27	40.51	60.00	-19.49	Peak

Adapter-2



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Line
: DET:Peak
Project No. : RKSA250928001
Model : R010
Phase : L
Voltage : 120V/60Hz
Mode : BT
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 24.9℃
Humidity : 60%
Atmospheric pressure: 101.7kPa
Test Engineer : Jack He

	Freq MHz	Read		Level dBuV	Limit Line	Over Limit	Remark
		Level dBuV	Factor dB				
1	0.156	22.90	20.42	43.32	65.67	-22.35	Peak
2	0.186	22.02	20.46	42.48	64.22	-21.74	Peak
3	0.297	14.21	20.38	34.59	60.33	-25.74	Peak
4	0.679	15.67	20.25	35.92	56.00	-20.08	Peak
5	1.344	7.55	20.22	27.77	56.00	-28.23	Peak
6	4.316	9.12	20.17	29.29	56.00	-26.71	Peak



Site : CE
 Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Neutral
 : DET:Peak
 Project No. : RKSA250928001
 Model : R010
 Phase : N
 Voltage : 120V/60Hz
 Mode : BT
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
 Temperature : 24.9℃
 Humidity : 60%
 Atmospheric pressure: 101.7kPa
 Test Engineer : Jack He

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	25.91	20.39	46.30	66.00	-19.70	Peak
2	0.168	24.33	20.41	44.74	65.05	-20.31	Peak
3	0.263	19.65	20.37	40.02	61.32	-21.30	Peak
4	0.689	17.99	20.24	38.23	56.00	-17.77	Peak
5	1.311	12.20	20.21	32.41	56.00	-23.59	Peak
6	17.338	15.06	20.39	35.45	60.00	-24.55	Peak

RADIATED EMISSIONS & RESTRICTED BANDS EMISSIONS**Environmental Conditions & Test Information**

Test Item:	SPURIOUS EMISSIONS			
	9 kHz-30MHz	30 MHz – 1 GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2025-10-23	2025-10-14 to 2025-10-21	2025-10-14	2025-10-18
Temperature:	25 °C	22.2-23.7 °C	26.3 °C	26.2 °C
Relative Humidity:	40 %	50-56 %	56 %	50 %
ATM Pressure:	101.5 kPa	101.6-103.1 kPa	102.0 kPa	101.7 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

EUT operation mode: Transmitting

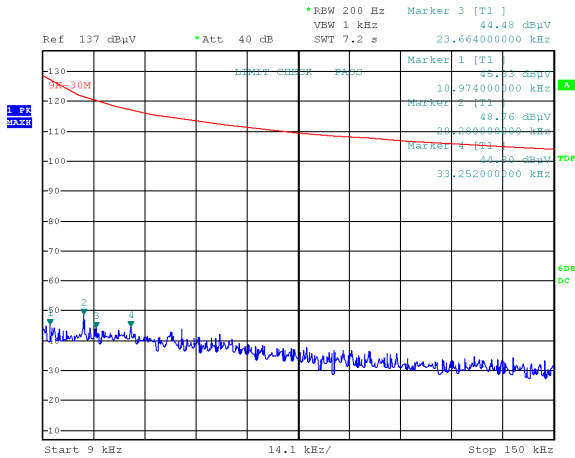
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

9 kHz-30 MHz: (Transmitting maximum output power GFSK Mode middle channel)

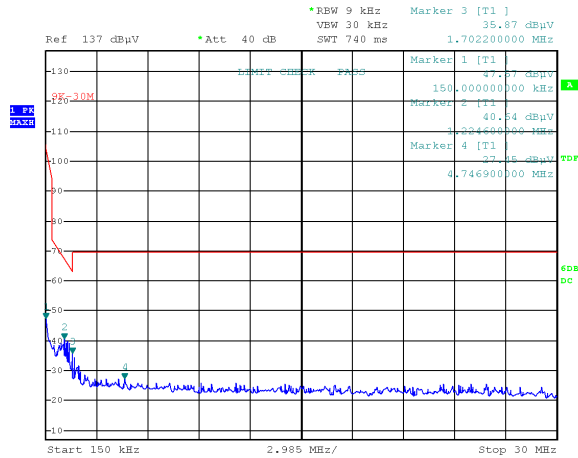
Adapter-1

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No. RKSA250928001
Date: 23.OCT.2025 18:49:25

Tester: Scarf Yang

Project No. RKSA250928001
Date: 23.OCT.2025 18:55:01

Tester: Scarf Yang

9kHz-150kHz

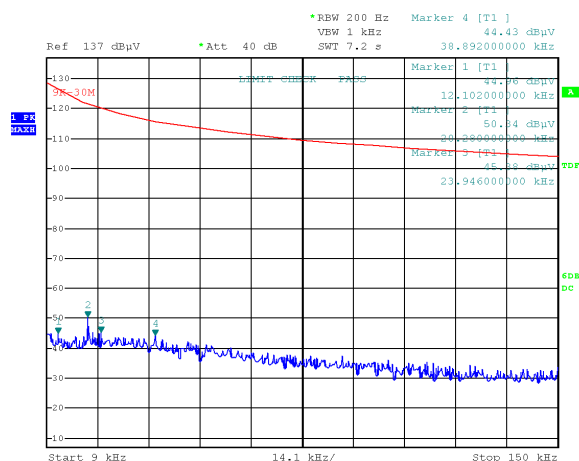
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.010974	45.33	PK	-0.52	126.8	81.47
0.020280	48.76	PK	-0.56	121.46	72.7
0.023664	44.48	PK	-0.58	120.12	75.64
0.033252	44.8	PK	-1.13	117.17	72.37

150kHz-30MHz

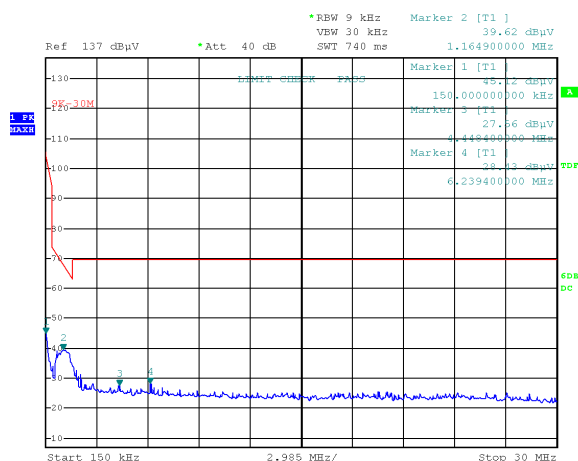
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	47.57	PK	-11.34	104.08	56.51
1.224600	40.64	PK	-28.35	65.84	25.20
1.702200	35.87	PK	-29.93	62.98	27.11
4.746900	27.45	PK	-32.03	69.54	42.09

Adapter-2
Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No. RKSA250928001
Date: 23.OCT.2025 18:09:36

Tester: Scarf Yang

Project No. RKSA250928001
Date: 23.OCT.2025 18:15:57

Tester: Scarf Yang

9kHz-150kHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.012102	44.96	PK	-0.52	125.95	80.99
0.020280	50.34	PK	-0.56	121.46	71.12
0.023946	45.38	PK	-0.58	120.02	74.64
0.038892	44.43	PK	-2.03	115.81	71.38

150kHz-30MHz

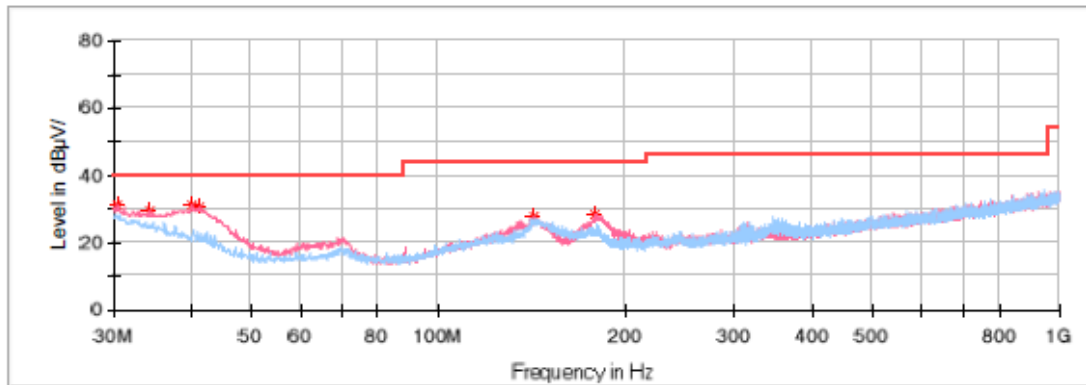
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	45.12	PK	-11.34	104.08	58.96
1.164900	39.62	PK	-28.15	66.28	26.66
4.448400	27.56	PK	-31.98	69.54	41.98
6.239400	28.43	PK	-32.25	69.54	41.11

30 MHz - 1 GHz (Transmitting in maximum output power GFSK mode and middle channel):
Adapter-1

Middle Channel: 2441 MHz

Common Information

Project No: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 22.2°C
Humidity: 50%
Barometric Pressure: 103.1Pa
Test Engineer: Scarf Yang
Test Date: 2025/10/21



Critical_Freqs

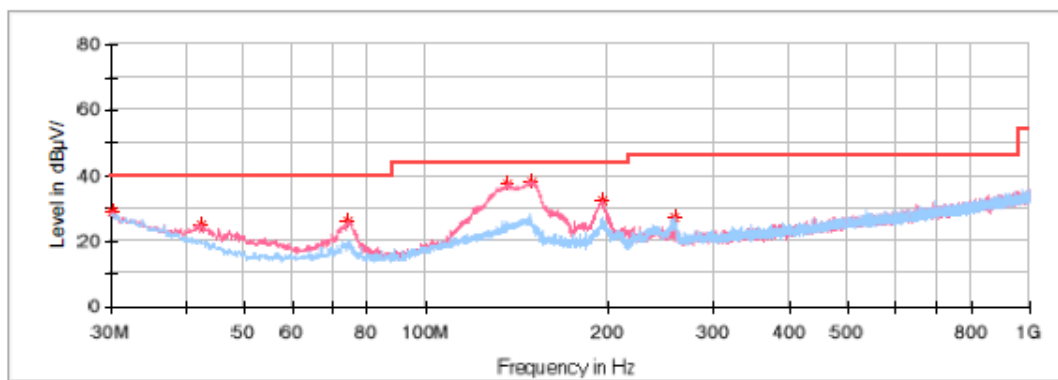
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.485000	30.95	40.00	9.05	V	-5.0
34.243750	29.66	40.00	10.34	V	-7.5
40.185000	31.16	40.00	8.84	V	-11.4
41.397500	30.82	40.00	9.18	V	-12.1
142.762500	27.55	43.50	15.95	V	-11.4
179.016250	28.33	43.50	15.17	V	-12.9

Adapter-2

Middle Channel: 2441 MHz

Common Information

Project No: RKSA250928001
 EUT Model: R010
 Test Mode: Transmitting in BT mode middle channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
 Test Equipment: ESCI, JB3, 310N
 Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
 Temperature: 23.7°C
 Humidity: 56%
 Barometric Pressure: 101.6Pa
 Test Engineer: Scarf Yang
 Test Date: 2025/10/14

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.242500	28.71	40.00	11.29	V	-4.9
42.367500	24.92	40.00	15.08	V	-12.7
74.498750	25.99	40.00	14.01	V	-16.8
136.821250	37.28	43.50	6.22	V	-11.2
149.552500	38.16	43.50	5.34	V	-11.7
195.870000	32.10	43.50	11.40	V	-12.3
258.192500	27.50	46.00	18.50	H	-12.0

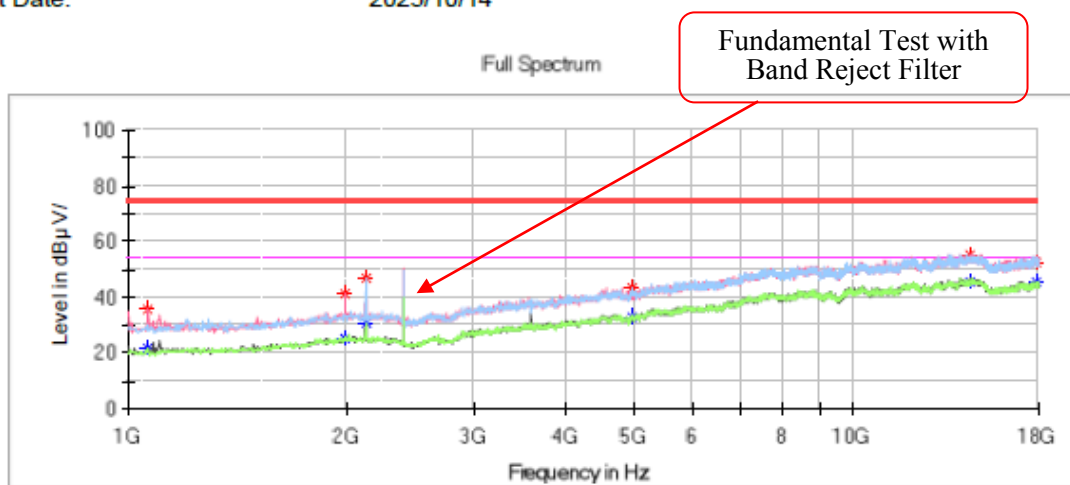
1 GHz - 18 GHz:

GFSK:

Low Channel: 2402 MHz

Common Information

Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: Transmitting in BT_1DH5 mode low channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.3℃
 Humidity: 56%
 Atmospheric Pressure: 102.0kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/14

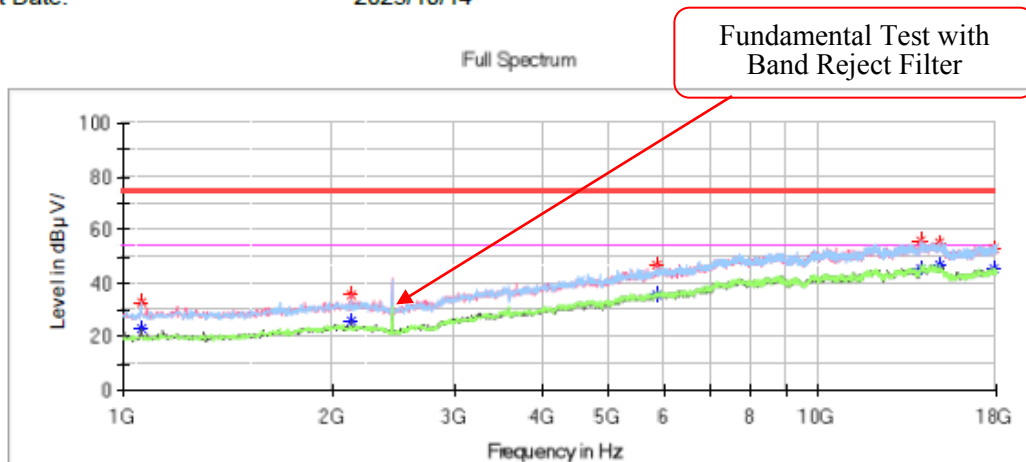


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	21.48	54.00	32.52	V	-15.0
1064.600000	35.73	---	74.00	38.27	V	-15.0
1989.400000	---	24.94	54.00	29.06	V	-10.1
1989.400000	41.04	---	74.00	32.96	V	-10.1
2125.400000	---	30.62	54.00	23.38	H	-9.9
2125.400000	46.68	---	74.00	27.32	H	-9.9
4961.000000	---	32.53	54.00	21.47	V	-3.0
4961.000000	43.55	---	74.00	30.45	V	-3.0
14515.000000	55.51	---	74.00	18.49	V	11.9
14515.000000	---	45.33	54.00	8.67	V	11.9
17857.200000	52.64	---	74.00	21.36	H	11.4
17857.200000	---	45.59	54.00	8.41	H	11.4

Middle Channel: 2441 MHz**Common Information**

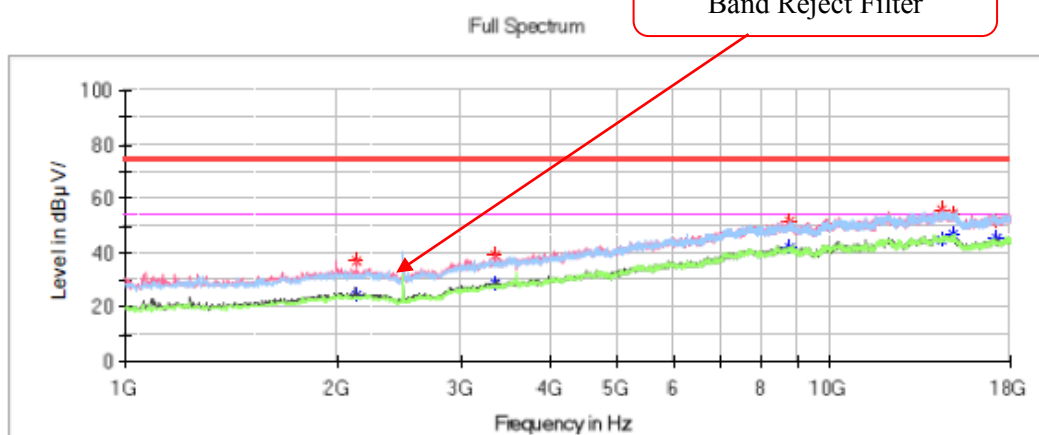
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: Transmitting in BT_1DH5 mode middle channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.3°C
 Humidity: 56%
 Atmospheric Pressure: 102.0kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/14

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	22.81	54.00	31.19	V	-15.0
1061.200000	32.76	---	74.00	41.24	V	-15.0
2128.800000	---	26.18	54.00	27.82	V	-9.9
2128.800000	35.83	---	74.00	38.17	V	-9.9
5855.200000	---	35.96	54.00	18.04	H	-0.9
5855.200000	46.78	---	74.00	27.22	H	-0.9
14076.400000	55.71	---	74.00	18.29	H	11.2
14076.400000	---	45.80	54.00	8.20	H	11.2
14940.000000	55.05	---	74.00	18.95	H	10.5
14940.000000	---	46.96	54.00	7.04	H	10.5
17836.800000	52.85	---	74.00	21.15	H	11.3
17836.800000	---	45.78	54.00	8.22	H	11.3

High Channel: 2480 MHz**Common Information**

Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: Transmitting in BT_1DH5 mode high channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.3°C
 Humidity: 56%
 Atmospheric Pressure: 102.0kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/14

**Critical Freqs**

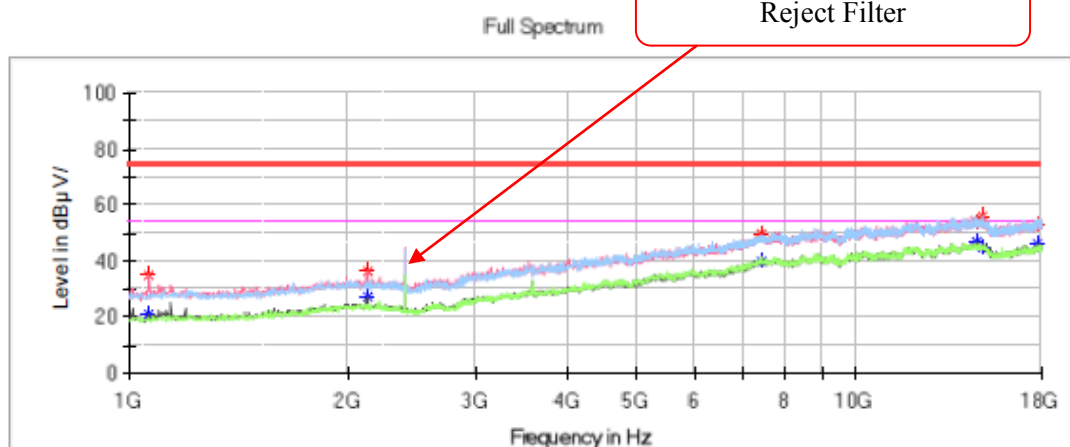
Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2132.200000	---	24.72	54.00	29.28	V	-9.9
2132.200000	36.84	---	74.00	37.16	V	-9.9
3359.600000	39.30	---	74.00	34.70	V	-6.8
3359.600000	---	28.71	54.00	25.29	V	-6.8
8748.600000	---	41.98	54.00	12.02	V	4.7
8748.600000	51.60	---	74.00	22.40	V	4.7
14416.400000	55.78	---	74.00	18.22	V	11.8
14416.400000	---	44.63	54.00	9.37	V	11.8
14923.000000	54.38	---	74.00	19.62	H	10.5
14923.000000	---	47.08	54.00	6.92	H	10.5
17275.800000	---	45.60	54.00	8.40	V	10.7
17275.800000	51.79	---	74.00	22.21	V	10.7

$\pi/4$ -DQPSK:

Low Channel: 2402 MHz

Common Information

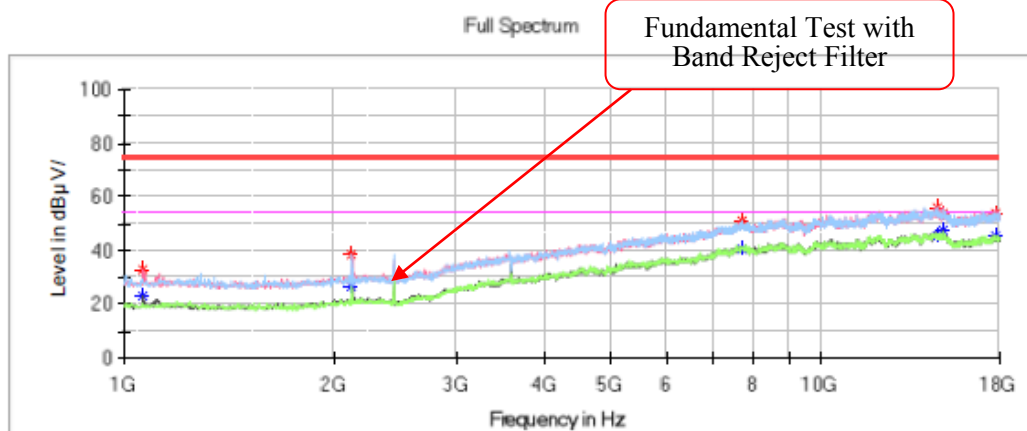
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: Transmitting in BT_2DH5 mode low channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.3℃
 Humidity: 56%
 Atmospheric Pressure: 102.0kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/14

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	20.97	54.00	33.03	V	-15.0
1064.600000	34.97	---	74.00	39.03	V	-15.0
2132.200000	---	27.19	54.00	26.81	V	-9.9
2132.200000	36.32	---	74.00	37.68	V	-9.9
7422.600000	---	39.69	54.00	14.31	V	2.7
7422.600000	49.86	---	74.00	24.14	V	2.7
14698.600000	53.75	---	74.00	20.25	H	11.3
14698.600000	---	46.97	54.00	7.03	H	11.3
14899.200000	55.96	---	74.00	18.04	H	10.6
14899.200000	---	44.51	54.00	9.49	H	10.6
17809.600000	52.95	---	74.00	21.05	V	11.3
17809.600000	---	45.94	54.00	8.06	V	11.3

Middle Channel: 2441 MHz**Common Information**

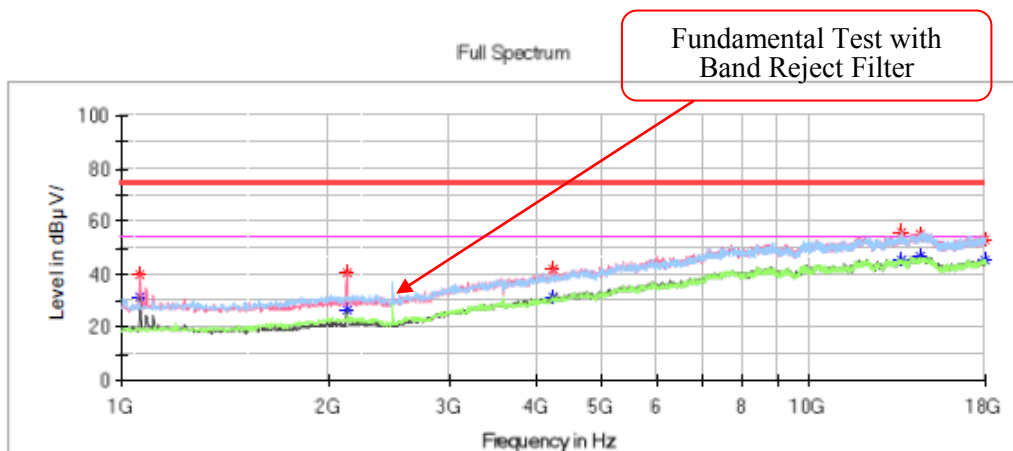
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: Transmitting in BT_2DH5 mode middle channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.3°C
 Humidity: 56%
 Atmospheric Pressure: 102.0kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/14

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	32.69	---	74.00	41.31	V	-15.0
1064.600000	---	23.36	54.00	30.64	V	-15.0
2122.000000	---	26.26	54.00	27.74	H	-9.9
2122.000000	38.17	---	74.00	35.83	H	-9.9
7691.200000	---	40.60	54.00	13.40	H	3.1
7691.200000	51.11	---	74.00	22.89	H	3.1
14708.800000	55.89	---	74.00	18.11	H	11.3
14708.800000	---	45.29	54.00	8.71	H	11.3
14933.200000	53.84	---	74.00	20.16	H	10.5
14933.200000	---	47.31	54.00	6.69	H	10.5
17813.000000	---	45.56	54.00	8.44	V	11.3
17813.000000	53.74	---	74.00	20.26	V	11.3

High Channel: 2480 MHz**Common Information**

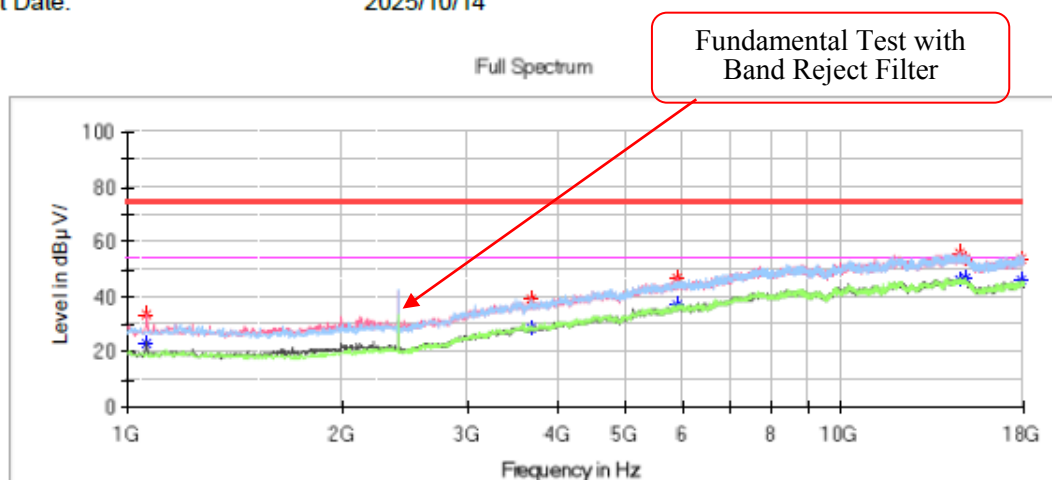
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: Transmitting in BT_2DH5 mode high channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.3°C
 Humidity: 56%
 Atmospheric Pressure: 102.0kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/14

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	31.40	54.00	22.60	V	-15.0
1064.600000	39.85	---	74.00	34.15	V	-15.0
2125.400000	---	26.87	54.00	27.13	V	-9.9
2125.400000	40.22	---	74.00	33.78	V	-9.9
4250.400000	---	31.32	54.00	22.68	H	-4.6
4250.400000	41.74	---	74.00	32.26	H	-4.6
13607.200000	---	45.55	54.00	8.45	H	10.2
13607.200000	55.90	---	74.00	18.10	H	10.2
14447.000000	---	47.05	54.00	6.95	V	11.9
14447.000000	55.25	---	74.00	18.75	V	11.9
17966.000000	53.24	---	74.00	20.76	H	11.7
17966.000000	---	45.78	54.00	8.22	H	11.7

8DPSK:**Low Channel: 2402 MHz****Common Information**

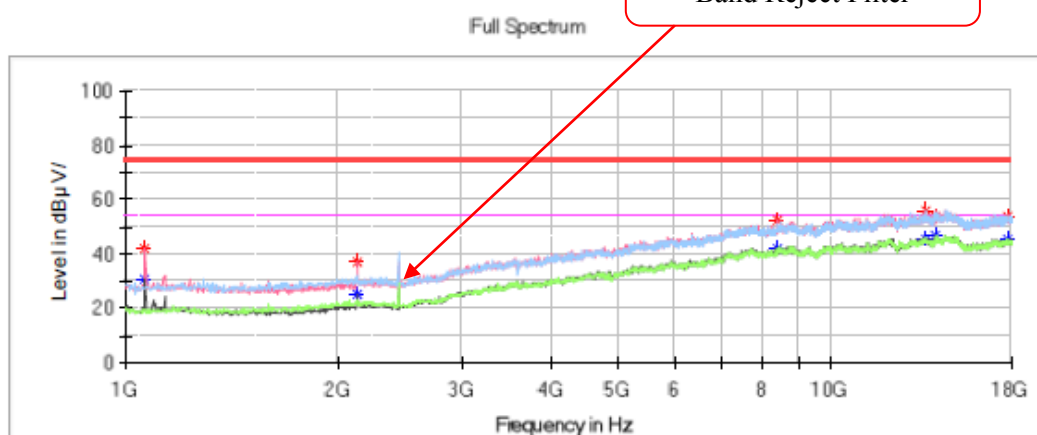
Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_3DH5 mode low channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	23.14	54.00	30.86	V	-15.0
1064.600000	33.58	---	74.00	40.42	V	-15.0
3669.000000	---	28.65	54.00	25.35	H	-5.8
3669.000000	39.51	---	74.00	34.49	H	-5.8
5889.200000	---	36.76	54.00	17.24	V	-0.9
5889.200000	46.85	---	74.00	27.15	V	-0.9
14674.800000	56.28	---	74.00	17.72	H	11.4
14674.800000	---	45.99	54.00	8.01	H	11.4
14953.600000	53.82	---	74.00	20.18	H	10.4
14953.600000	---	47.12	54.00	6.88	H	10.4
17884.400000	54.18	---	74.00	19.82	V	11.5
17884.400000	---	46.09	54.00	7.91	V	11.5

Middle Channel: 2441 MHz**Common Information**

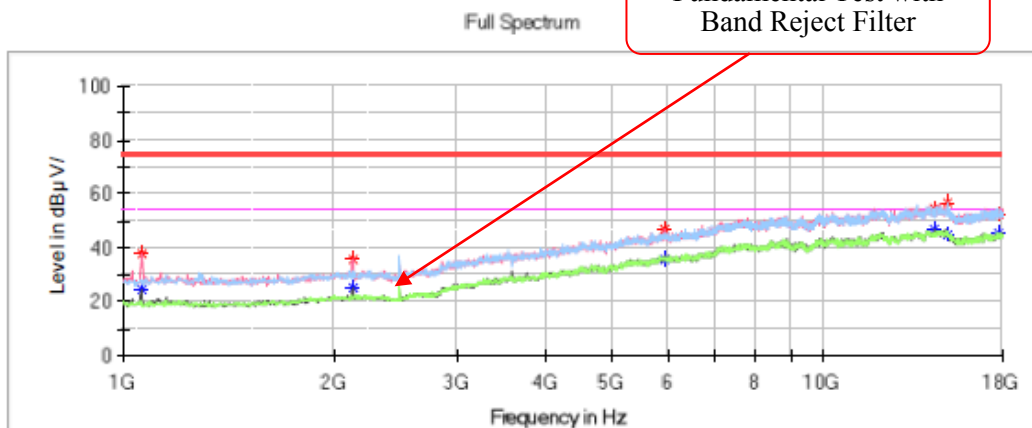
Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_3DH5 mode middle channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3°C
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	31.06	54.00	22.94	V	-15.0
1064.600000	42.02	---	74.00	31.98	V	-15.0
2128.800000	---	25.49	54.00	28.51	V	-9.9
2128.800000	37.14	---	74.00	36.86	V	-9.9
8378.000000	---	41.66	54.00	12.34	V	4.3
8378.000000	52.21	---	74.00	21.79	V	4.3
13617.400000	---	45.33	54.00	8.67	H	10.2
13617.400000	55.97	---	74.00	18.03	H	10.2
14062.800000	---	47.01	54.00	6.99	V	11.2
14062.800000	53.67	---	74.00	20.33	V	11.2
17806.200000	53.53	---	74.00	20.47	V	11.2
17806.200000	---	45.67	54.00	8.33	V	11.2

High Channel: 2480 MHz**Common Information**

Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_3DH5 mode high channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

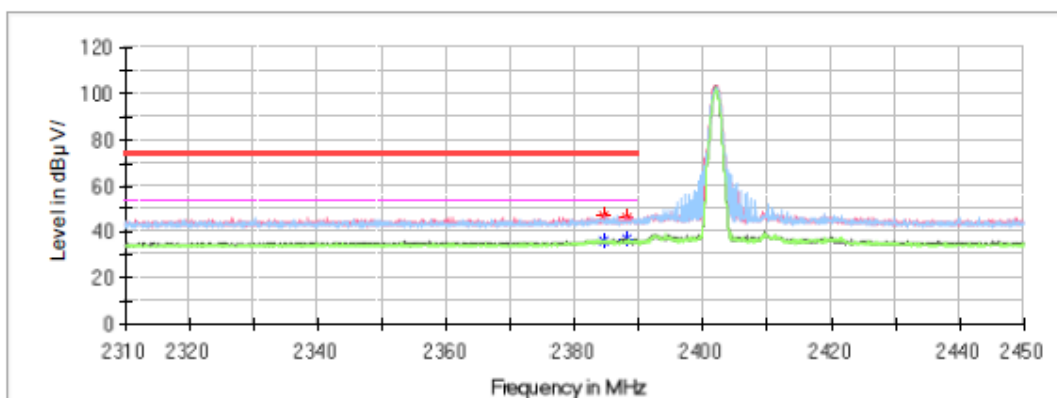
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	24.82	54.00	29.18	V	-15.0
1061.200000	37.48	---	74.00	36.52	V	-15.0
2125.400000	---	25.33	54.00	28.67	V	-9.9
2125.400000	35.80	---	74.00	38.20	V	-9.9
5916.400000	---	35.97	54.00	18.03	V	-0.8
5916.400000	46.75	---	74.00	27.25	V	-0.8
14433.400000	54.48	---	74.00	19.52	H	11.9
14433.400000	---	46.68	54.00	7.32	H	11.9
15014.800000	56.55	---	74.00	17.45	H	10.2
15014.800000	---	44.82	54.00	9.18	H	10.2
17809.600000	52.60	---	74.00	21.40	V	11.3
17809.600000	---	45.77	54.00	8.23	V	11.3

**Band Edge:
GFSK:****Left Side****Common Information**

Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_1DH5 mode low channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

Full Spectrum

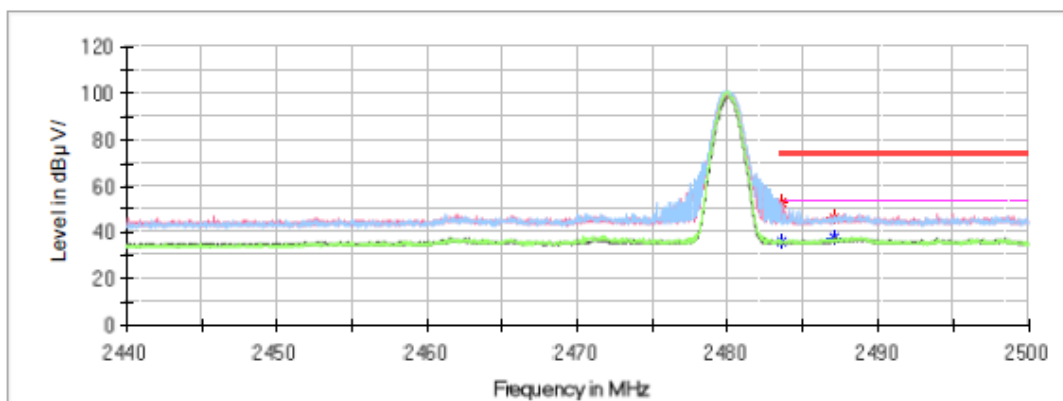
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2384.536000	46.91	---	74.00	27.09	V	0.2
2384.536000	---	35.86	54.00	18.14	V	0.2
2388.008000	45.91	---	74.00	28.09	V	0.2
2388.008000	---	37.16	54.00	16.84	V	0.2

Right Side**Common Information**

Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_1DH5 mode high channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.560000	52.87	---	74.00	21.13	H	0.4
2483.560000	---	35.96	54.00	18.04	H	0.4
2487.112000	46.32	---	74.00	27.68	V	0.4
2487.112000	---	38.12	54.00	15.88	V	0.4

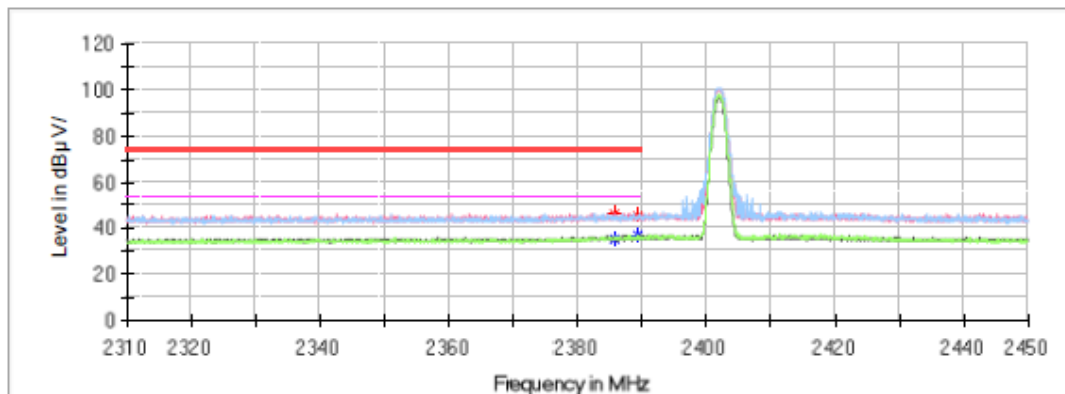
$\pi/4$ -DQPSK:

Left Side

Common Information

Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_2DH5 mode low channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

Full Spectrum

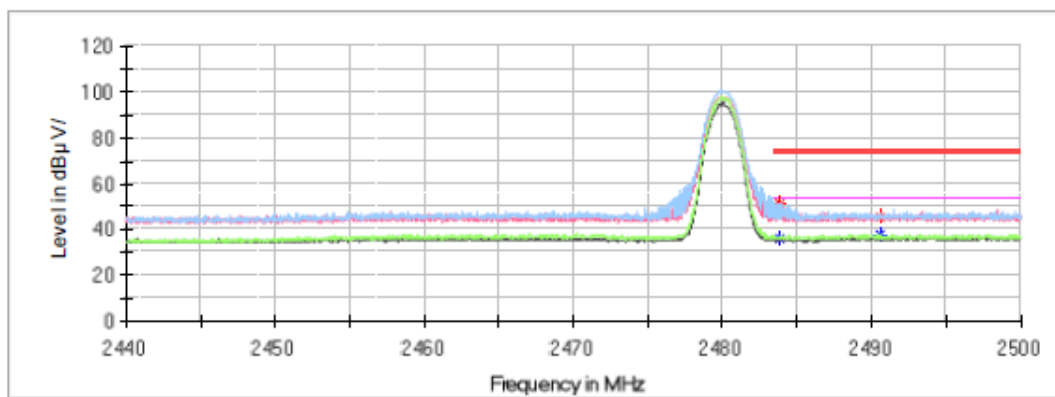
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2385.768000	46.49	---	74.00	27.51	V	0.2
2385.768000	---	35.61	54.00	18.39	V	0.2
2389.464000	45.02	---	74.00	28.98	H	0.2
2389.464000	---	37.08	54.00	16.92	H	0.2

Right Side**Common Information**

Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_2DH5 mode high channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3°C
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

Full Spectrum

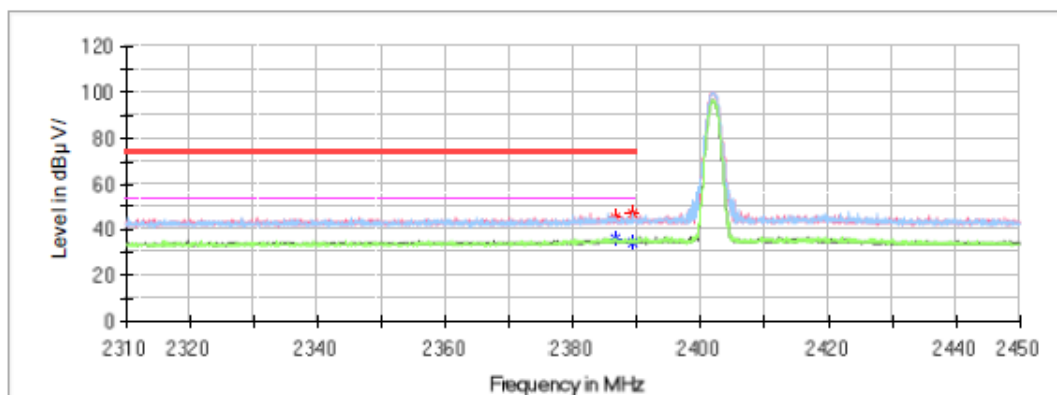
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.776000	51.61	---	74.00	22.39	H	0.4
2483.776000	---	36.47	54.00	17.53	H	0.4
2490.592000	45.49	---	74.00	28.51	H	0.4
2490.592000	---	38.00	54.00	16.00	H	0.4

8DPSK:**Left Side****Common Information**

Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_3DH5 mode low channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3℃
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

Full Spectrum

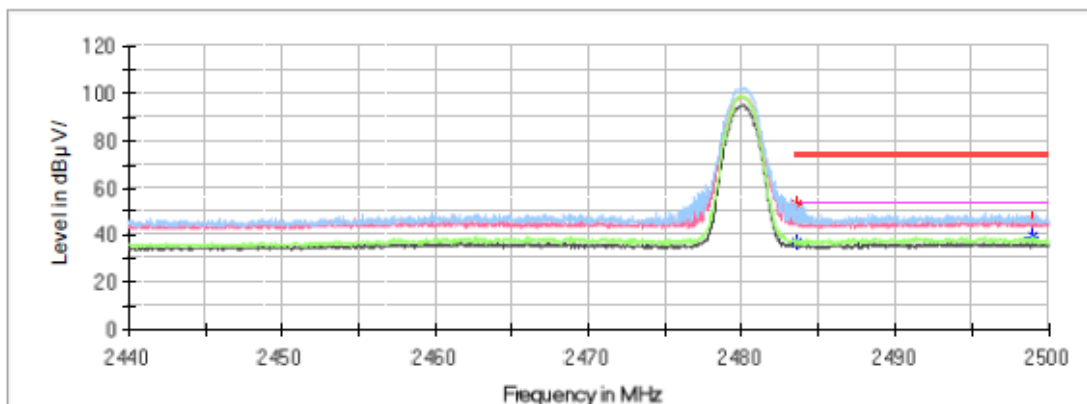
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.496000	44.94	---	74.00	29.06	H	0.2
2386.496000	---	36.30	54.00	17.70	H	0.2
2389.408000	47.01	---	74.00	26.99	V	0.2
2389.408000	---	34.68	54.00	19.32	V	0.2

Right Side**Common Information**

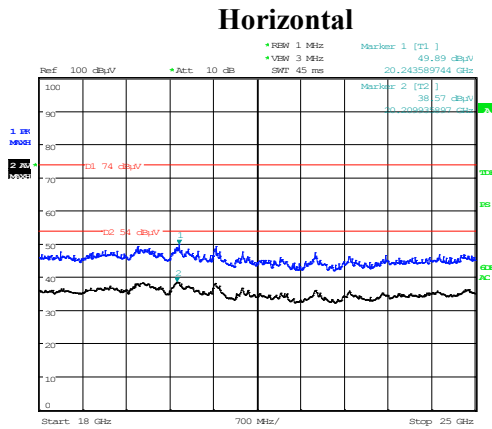
Project No.: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in BT_3DH5 mode high channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.3°C
Humidity: 56%
Atmospheric Pressure: 102.0kPa
Test Engineer: Destine Hu
Test Date: 2025/10/14

Full Spectrum

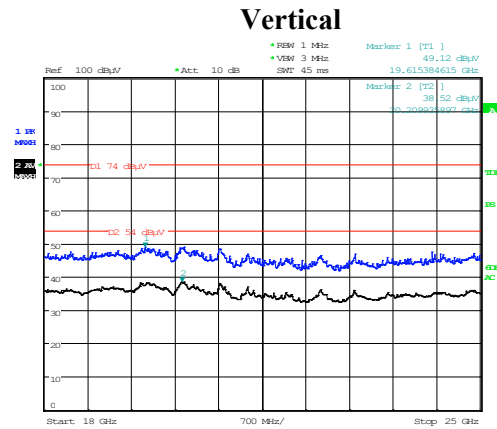
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.584000	52.79	---	74.00	21.21	H	0.4
2483.584000	---	36.91	54.00	17.09	H	0.4
2498.920000	46.54	---	74.00	27.46	H	0.4
2498.920000	---	39.33	54.00	14.67	H	0.4

18 GHz - 25 GHz (Transmitting maximum output power GFSK Mode middle channel):



Project No : RKSA250928001 Tester : Hugh Wu
Date: 18.OCT.2025 14:33:28



Project No : RKSA250928001 Tester : Hugh Wu
Date: 18.OCT.2025 15:06:21

Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.21	---	38.52	54	15.48	V	12.47
19.62	49.12	---	74	24.88	V	11.18
20.21	---	38.57	54	15.43	H	12.47
20.24	49.89	---	74	24.11	H	12.5

Note: The test distance is 3m. The limit is 74dB μ V/m(Peak) and 54dB μ V/m(Average).

CHANNEL SEPARATION TEST**Environmental Conditions & Test Information**

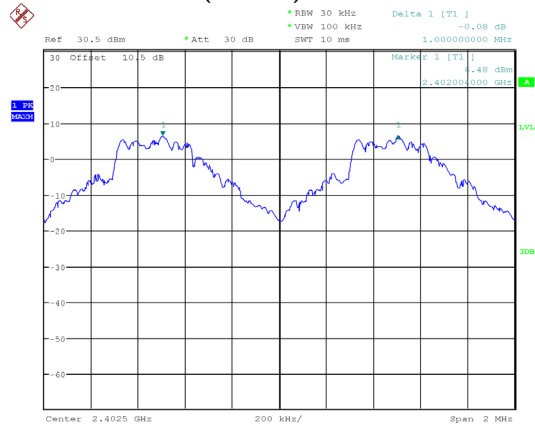
Test Date:	2025-10-15
Temperature:	24 °C
Relative Humidity:	51 %
ATM Pressure:	100.2 kPa
Test Result:	Pass
Test Engineer:	Hugh Wu

EUT operation mode: Transmitting

Mode	Channel	Result (MHz)	Limit (MHz)	Result
GFSK	Low	1.000	0.844	Pass
	Middle	1.004	0.844	Pass
	High	1.000	0.844	Pass

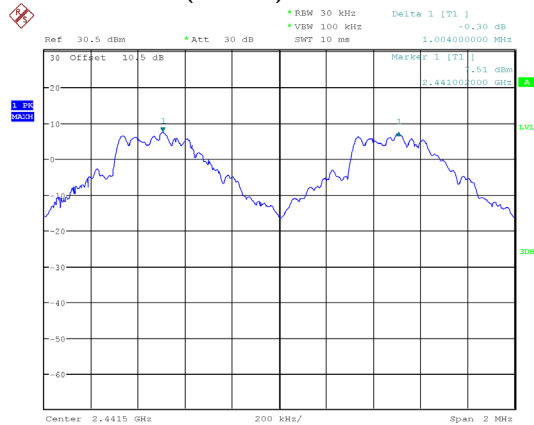
Note: Only GFSK mode result is reported since EDR($\pi/4$ -DQPSK, 8DPSK) has the exact same channel plan.
Limit = 20 dB bandwidth*2/3

BDR (GFSK): Low Channel



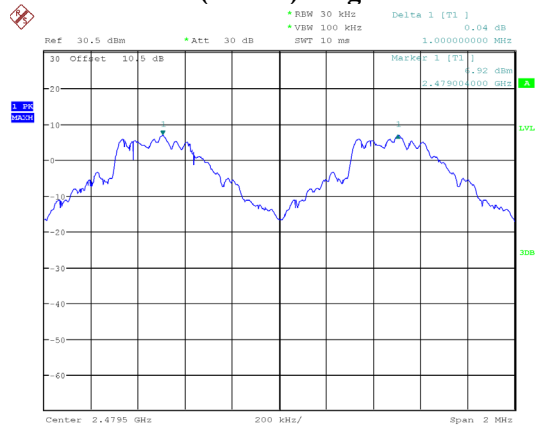
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 16:54:28

BDR (GFSK): Middle Channel



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:06:29

BDR (GFSK): High Channel



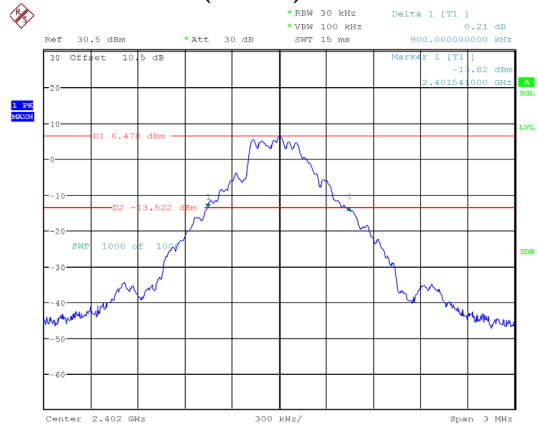
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:17:57

20 dB BANDWIDTH TEST**Environmental Conditions & Test Information**

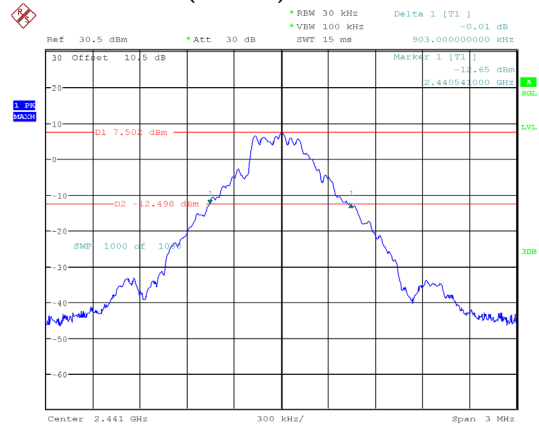
Test Date:	2025-10-15
Temperature:	24 °C
Relative Humidity:	51 %
ATM Pressure:	100.2 kPa
Test Result:	Pass
Test Engineer:	Hugh Wu

EUT operation mode: Transmitting

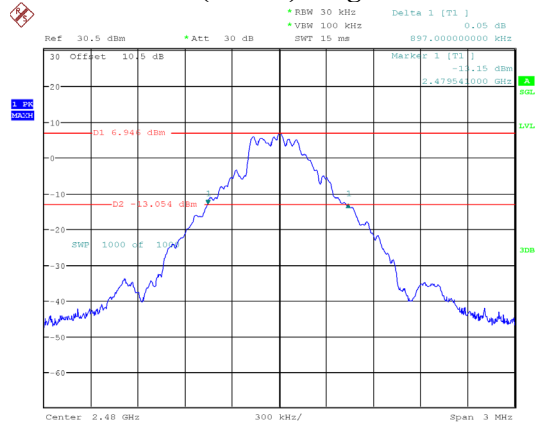
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.900
	Middle	2441	0.903
	High	2480	0.897
EDR ($\pi/4$-DQPSK)	Low	2402	1.266
	Middle	2441	1.263
	High	2480	1.266
EDR (8DPSK)	Low	2402	1.257
	Middle	2441	1.257
	High	2480	1.254

BDR (GFSK): Low Channel

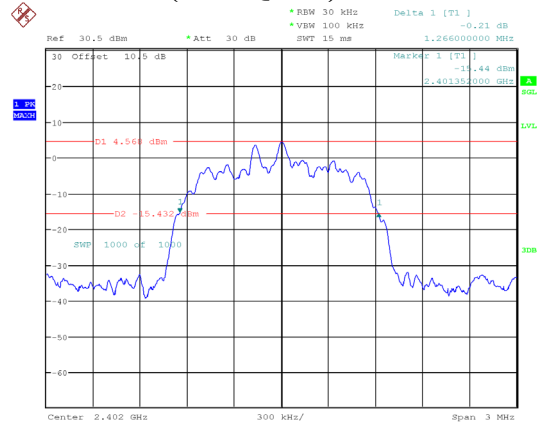
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:33:31

BDR (GFSK): Middle Channel

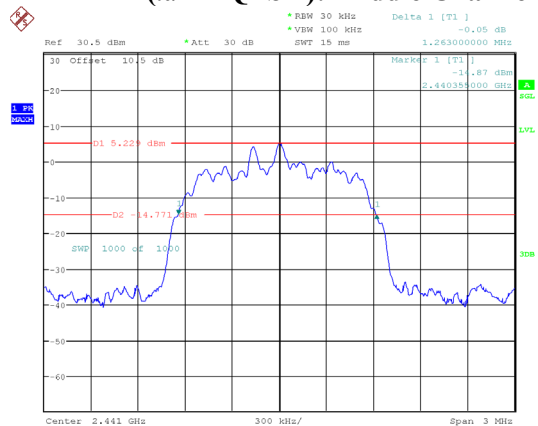
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:41:54

BDR (GFSK): High Channel

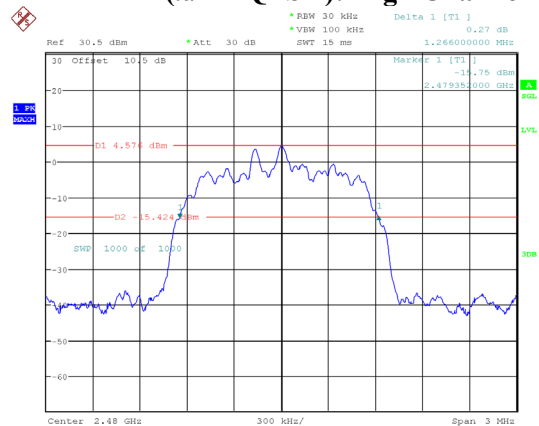
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:45:37

EDR ($\pi/4$ -DQPSK): Low Channel

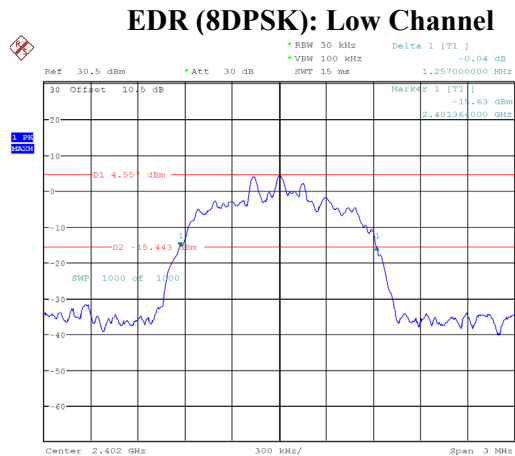
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:49:48

EDR($\pi/4$ -DQPSK): Middle Channel

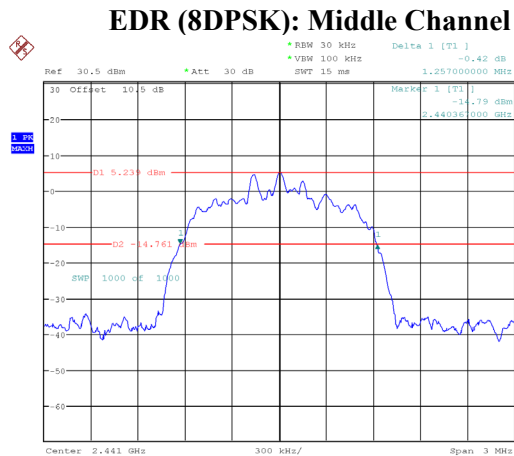
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:53:58

EDR ($\pi/4$ -DQPSK): High Channel

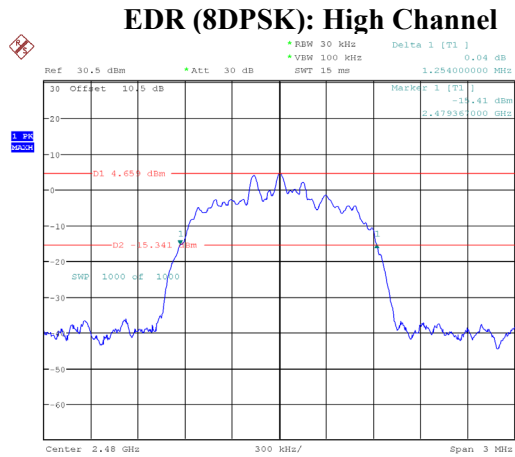
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:57:54



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:01:53



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:06:21



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:09:52

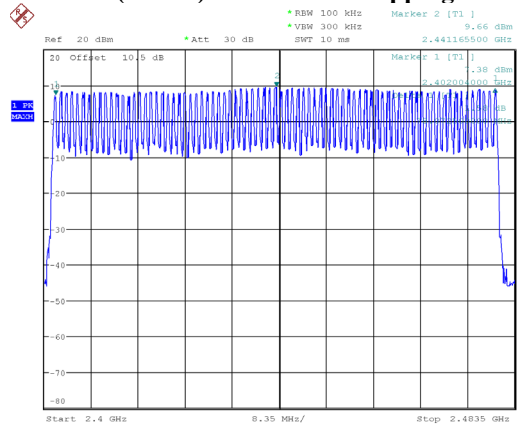
QUANTITY OF HOPPING CHANNEL TEST**Environmental Conditions & Test Information**

Test Date:	2025-10-15
Temperature:	24 °C
Relative Humidity:	51 %
ATM Pressure:	100.2 kPa
Test Result:	Pass
Test Engineer:	Hugh Wu

EUT operation mode: Hopping

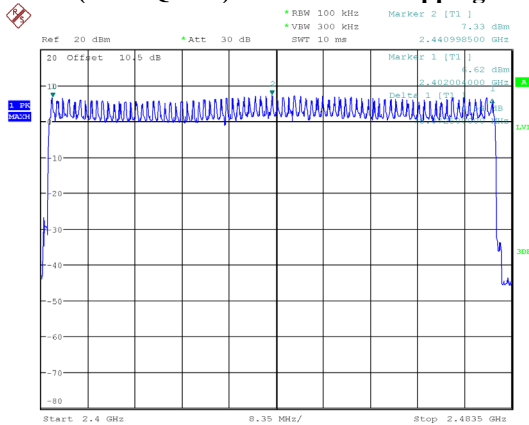
Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥15
EDR ($\pi/4$ -DQPSK)	2400-2483.5	79	≥15
EDR (8DPSK)	2400-2483.5	79	≥15

BDR (GFSK): Number of Hopping Channels



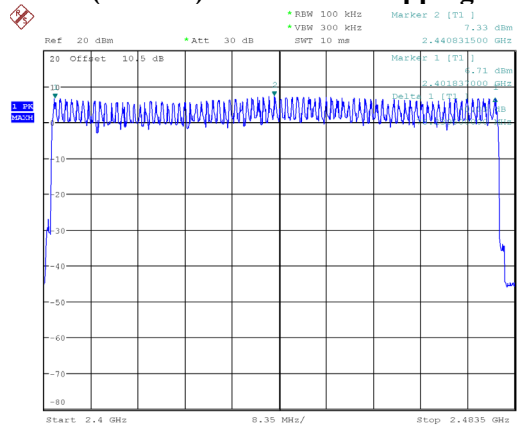
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:23:35

EDR ($\pi/4$ -DQPSK): Number of Hopping Channels



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:30:13

EDR (8DPSK): Number of Hopping Channels



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:36:06

TIME OF OCCUPANCY (DWELL TIME)**Environmental Conditions & Test Information**

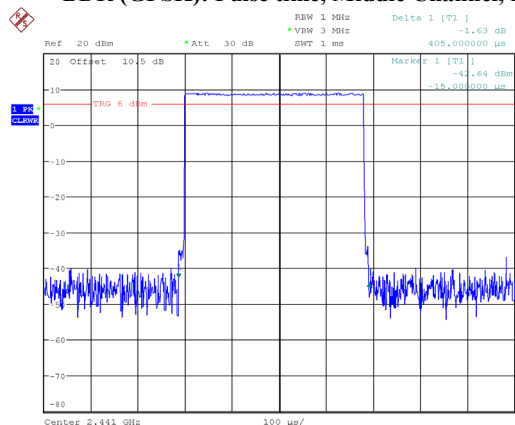
Test Date:	2025-10-15
Temperature:	24 °C
Relative Humidity:	51 %
ATM Pressure:	100.2 kPa
Test Result:	Pass
Test Engineer:	Hugh Wu

EUT operation mode: Hopping

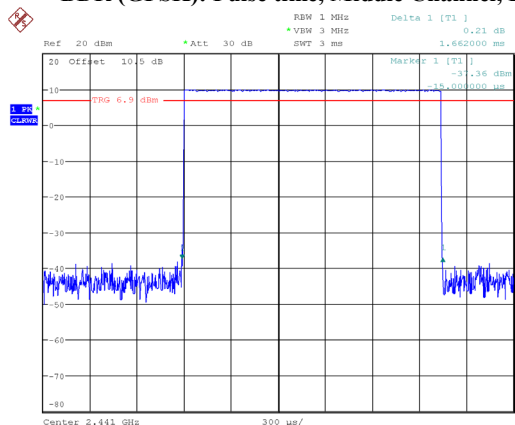
Mode		Channel	BurstWidth (ms)	TotalHops (Num)	Dwell time (s)	Limit (s)	Result
BDR (GFSK)	DH1	Middle	0.405	310	0.126	0.4	Pass
	DH3		1.662	160	0.266	0.4	Pass
	DH5		2.935	100	0.294	0.4	Pass
EDR ($\pi/4$ -DQPSK)	2DH1		0.405	320	0.130	0.4	Pass
	2DH3		1.674	170	0.285	0.4	Pass
	2DH5		2.935	90	0.264	0.4	Pass
EDR (8DPSK)	3DH1		0.412	320	0.132	0.4	Pass
	3DH3		1.671	110	0.184	0.4	Pass
	3DH5		2.945	90	0.265	0.4	Pass

Note: Dwell time = BurstWidth (Pulse time) * TotalHops

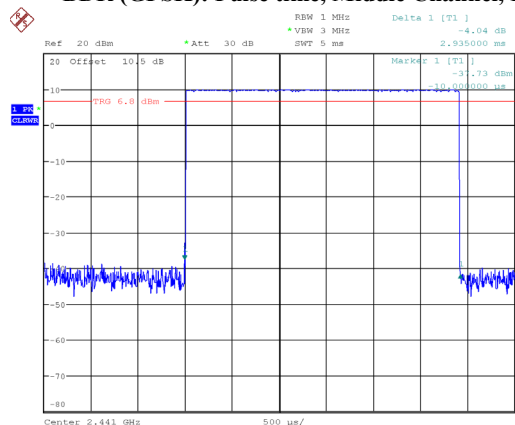
TotalHops (31.6s) = hopping numbers (3.16s)*10

BDR (GFSK): Pulse time, Middle Channel, DH1

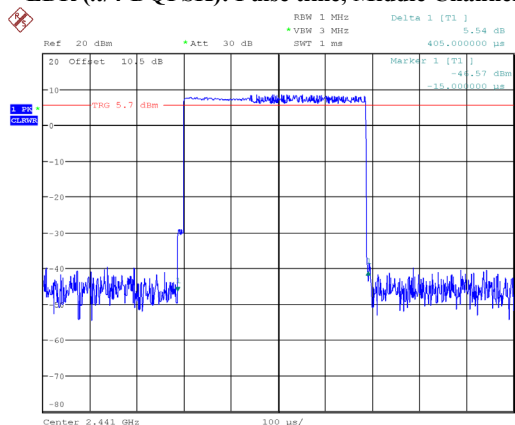
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:38:24

BDR (GFSK): Pulse time, Middle Channel, DH3

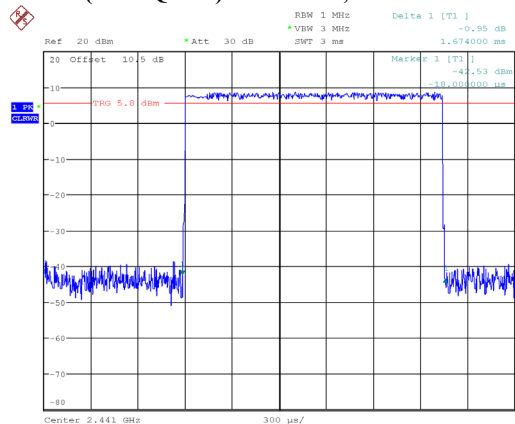
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:39:19

BDR (GFSK): Pulse time, Middle Channel, DH5

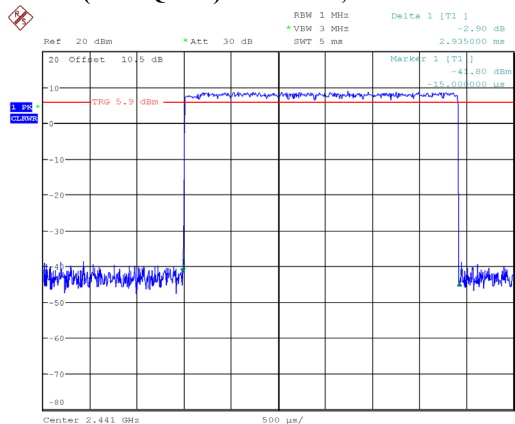
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:40:17

EDR ($\pi/4$ -DQPSK): Pulse time, Middle Channel, 2DH1

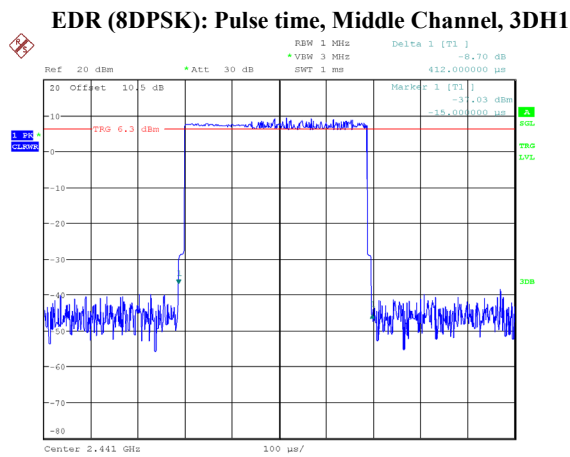
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:41:13

EDR ($\pi/4$ -DQPSK): Pulse time, Middle Channel, 2DH3

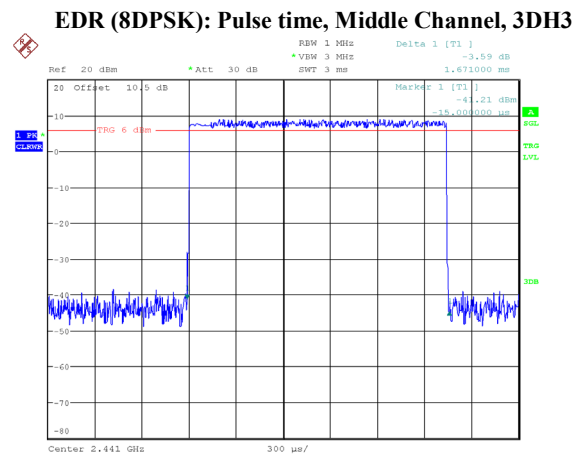
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:42:13

EDR ($\pi/4$ -DQPSK): Pulse time, Middle Channel, 2DH5

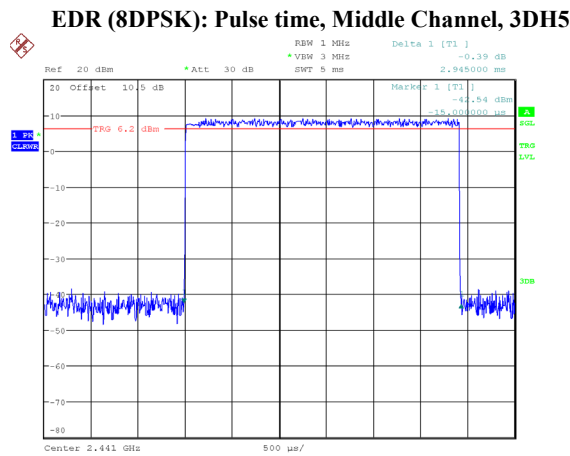
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:43:08



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:44:05



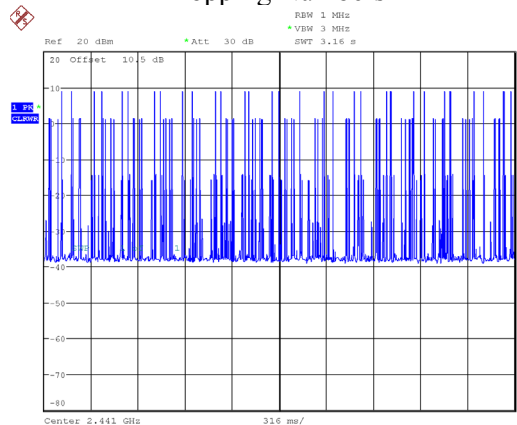
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:45:02



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:46:05

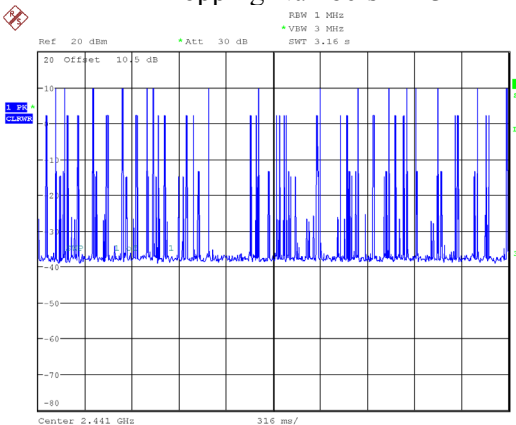
BDR Mode (GFSK):

Hopping Numbers-DH1



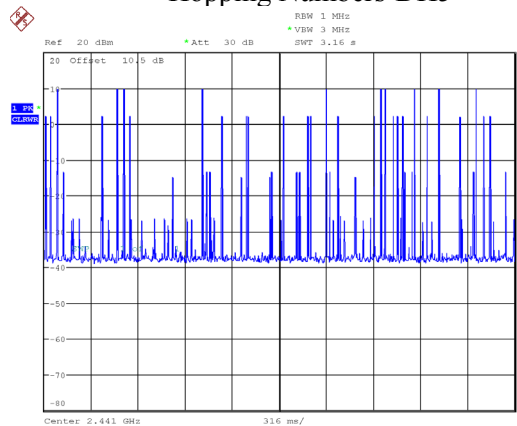
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:37:50

Hopping Numbers-DH3



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:38:48

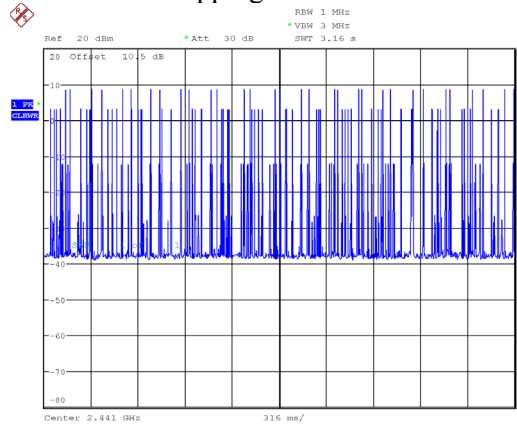
Hopping Numbers-DH5



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:39:43

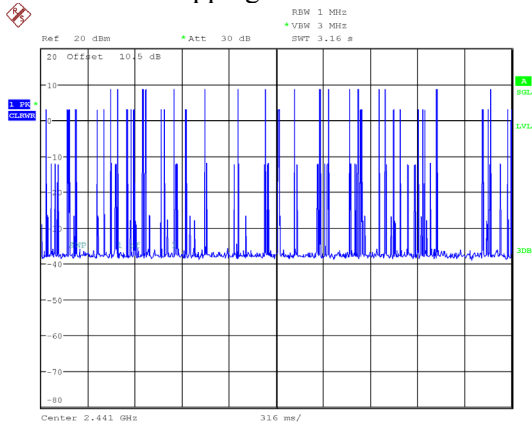
EDR Mode ($\pi/4$ -DQPSK):

Hopping Numbers-2DH1



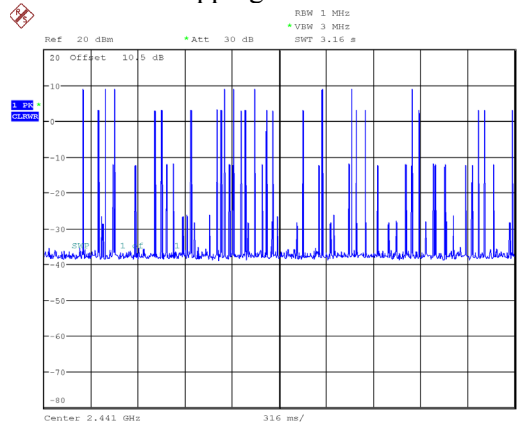
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:40:40

Hopping Numbers-2DH3



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:41:43

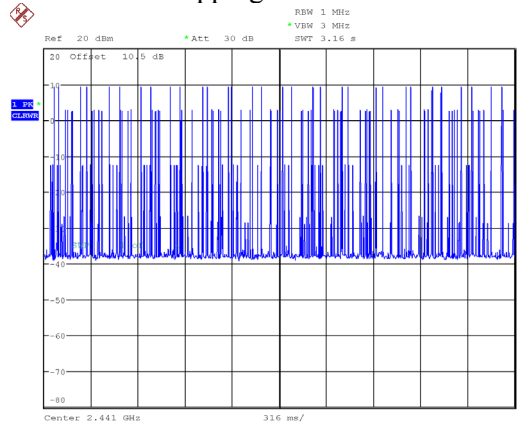
Hopping Numbers-2DH5



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:42:37

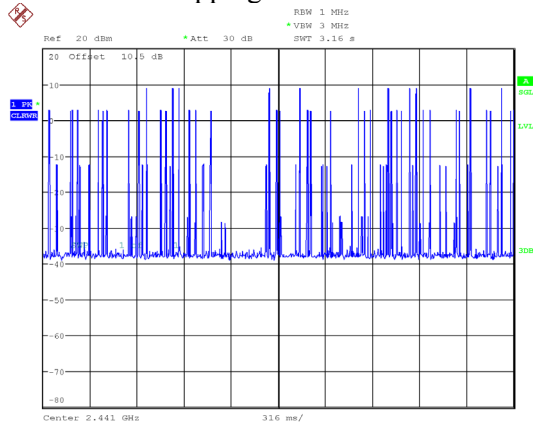
EDR Mode (8DPSK):

Hopping Numbers-3DH1



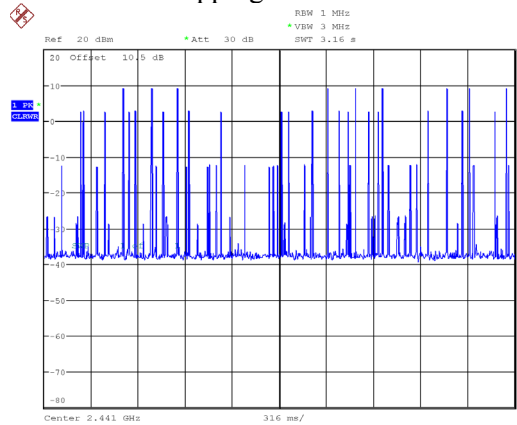
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:43:29

Hopping Numbers-3DH3



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:44:27

Hopping Numbers-3DH5



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 17:45:28

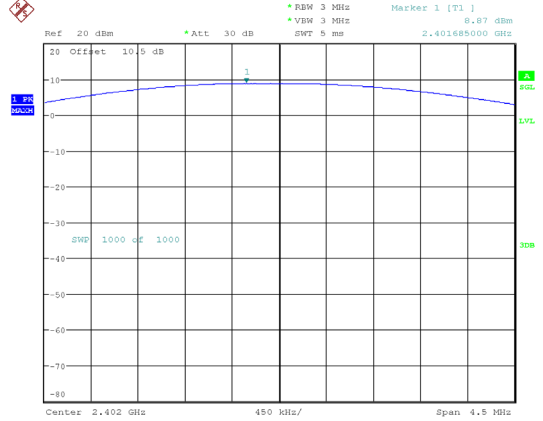
PEAK OUTPUT POWER MEASUREMENT**Environmental Conditions & Test Information**

Test Date:	2025-10-15
Temperature:	24 °C
Relative Humidity:	51 %
ATM Pressure:	100.2 kPa
Test Result:	Pass
Test Engineer:	Hugh Wu

EUT operation mode: Transmitting

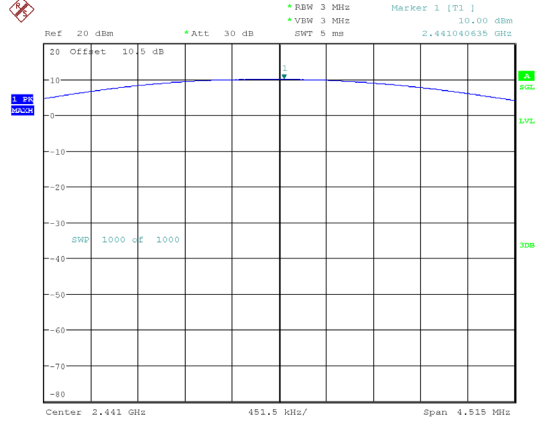
Mode	Channel	Frequency (MHz)	Result (dBm)	Limit (dBm)
GFSK	Low	2402	8.87	21
	Middle	2441	10.00	
	High	2480	9.40	
$\pi/4$ DQPSK	Low	2402	8.22	
	Middle	2441	9.21	
	High	2480	8.61	
8DPSK	Low	2402	8.63	
	Middle	2441	9.80	
	High	2480	9.28	

BDR (GFSK): 2402MHz



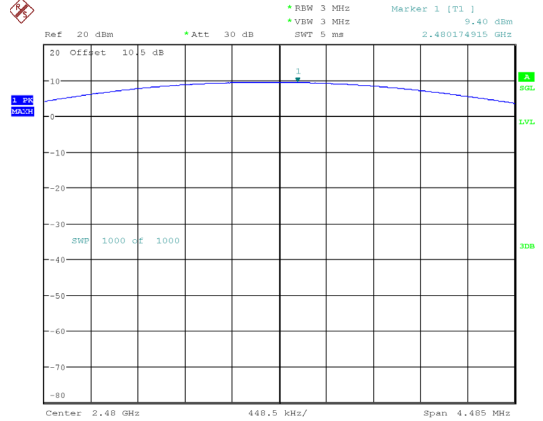
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:35:41

BDR (GFSK): 2441MHz



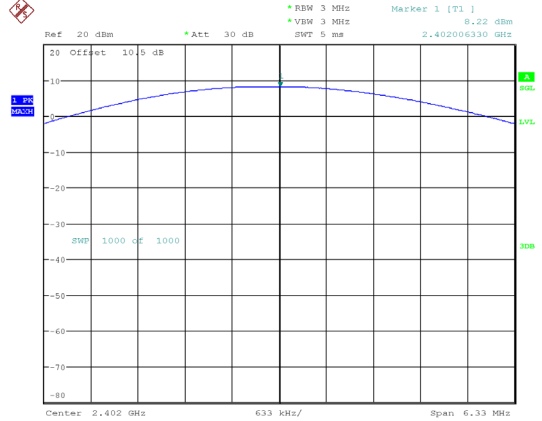
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:44:25

BDR (GFSK): 2480MHz



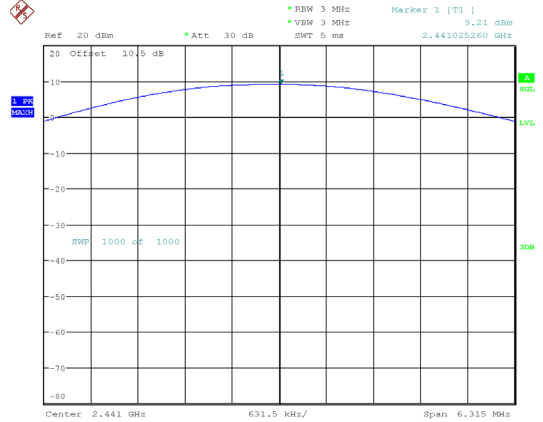
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:47:51

EDR($\pi/4$ -DQPSK): 2402MHz



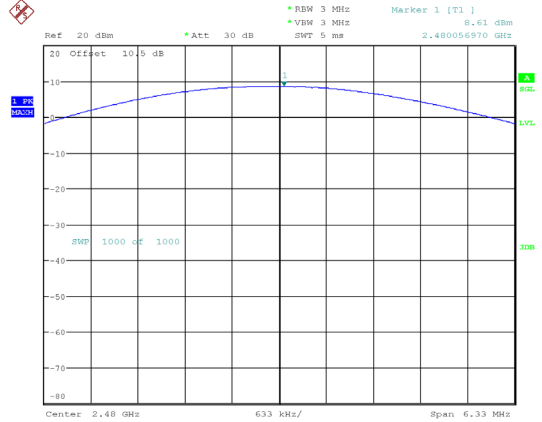
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:52:29

EDR($\pi/4$ -DQPSK): 2441MHz



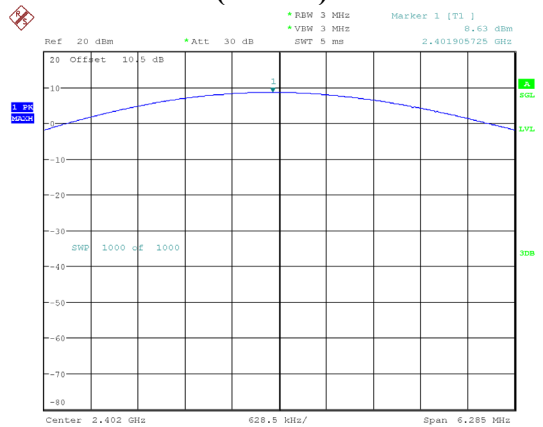
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 10:56:44

EDR($\pi/4$ -DQPSK): 2480MHz



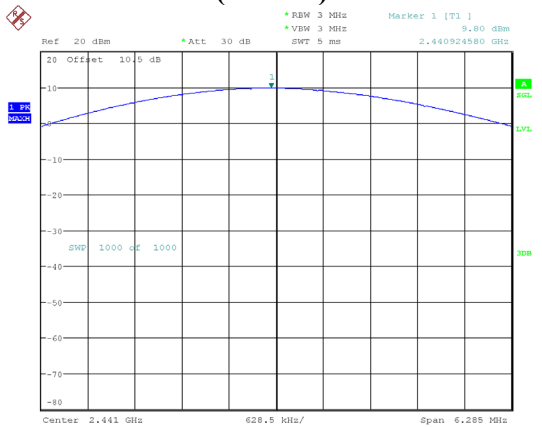
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:00:23

EDR(8DPSK): 2402MHz



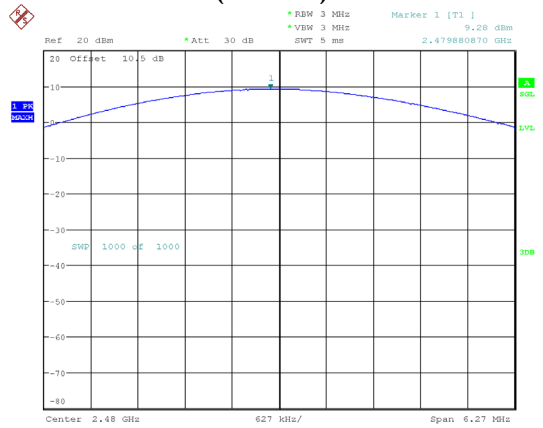
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:03:55

EDR(8DPSK):2441MHz



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:08:44

EDR(8DPSK): 2480MHz



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:13:37

BAND EDGES**Environmental Conditions & Test Information**

Test Date:	2025-10-15
Temperature:	24 °C
Relative Humidity:	51 %
ATM Pressure:	100.2 kPa
Test Result:	Pass
Test Engineer:	Hugh Wu

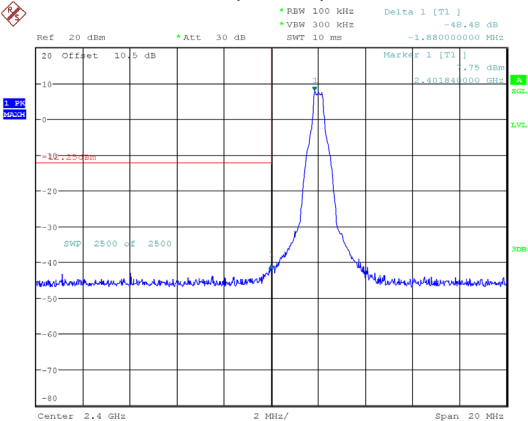
EUT operation mode: Transmitting & Hopping

Test Result: Compliant.

Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
GFSK	Low	2402	48.48	20
	High	2480	51.69	
$\pi/4$ DQPSK	Low	2402	48.86	
	High	2480	48.77	
8DPSK	Low	2402	48.74	
	High	2480	49.33	
GFSK (Hopping)	Low	2402	50.78	
	High	2480	51.00	
$\pi/4$ DQPSK (Hopping)	Low	2402	48.10	
	High	2480	48.68	
8DPSK (Hopping)	Low	2402	49.10	
	High	2480	48.62	

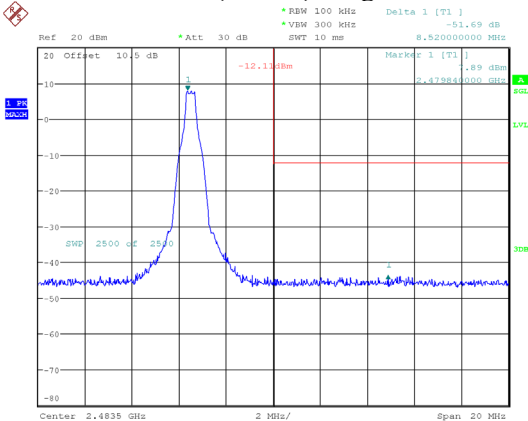
Band Edge

BDR (GFSK): Left Side



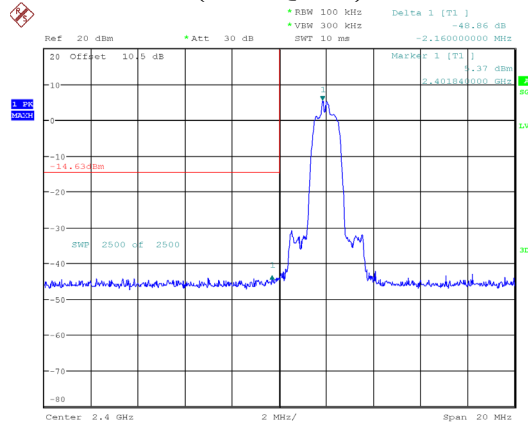
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:23:33

BDR (GFSK): Right Side



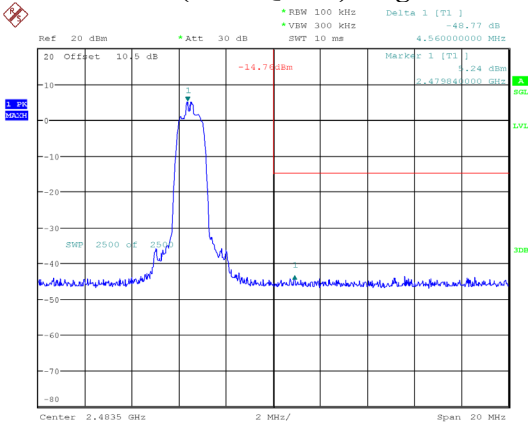
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:26:13

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



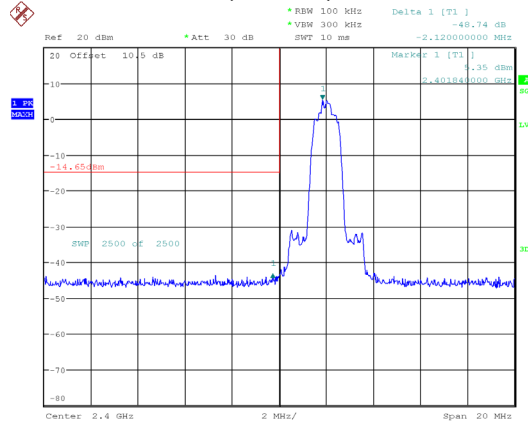
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:38:12

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



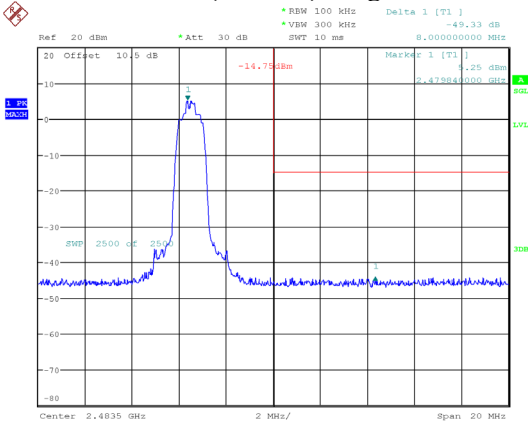
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:40:47

EDR (8DPSK): Left Side



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:49:04

EDR (8DPSK): Right Side



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 15.OCT.2025 11:52:00