

FCC PART 15.247 TEST REPORT

For

AgiBot Innovation(Shanghai) Technology Co.,Ltd.

8/F, Building 29, No.2555 Xiupu Road, Pudong New Area, Shanghai, China

FCC ID: 2BTPT-ZYCXD125M

Report Type: Original Report	Product Name: AGIBOT Quadruped Robot
Report Number: RBJ260304001-00E	
Report Date: 2026-07-04	
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TABLE OF CONTENTS

REPORT REVISION HISTORY.....	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
OBJECTIVE	5
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY	6
TEST FACILITY	6
SYSTEM TEST CONFIGURATION.....	7
DESCRIPTION OF TEST CONFIGURATION	7
EUT EXERCISE SOFTWARE	8
SPECIAL ACCESSORIES	8
EQUIPMENT MODIFICATIONS	8
SUPPORT EQUIPMENT LIST AND DETAILS	8
EXTERNAL I/O CABLE.....	8
BLOCK DIAGRAM OF TEST SETUP	9
SUMMARY OF TEST RESULTS	10
TEST EQUIPMENT LIST	11
FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE).....	13
APPLICABLE STANDARD	13
FCC §15.203 – ANTENNA REQUIREMENT	15
APPLICABLE STANDARD	15
ANTENNA CONNECTOR CONSTRUCTION	15
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS.....	16
APPLICABLE STANDARD	16
TEST SYSTEM SETUP.....	16
EMI TEST RECEIVER SETUP.....	17
TEST PROCEDURE	17
TEST RESULTS SUMMARY	18
TEST DATA: SEE APPENDIX	18
FCC §15.247(a) (1)-CHANNEL SEPARATION TEST	19
APPLICABLE STANDARD	19
TEST PROCEDURE	19
TEST DATD: SEE APPENDIX	19
FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH.....	20
APPLICABLE STANDARD	20
TEST PROCEDURE	20
TEST DATD: SEE APPENDIX	20
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST	21
APPLICABLE STANDARD	21
TEST PROCEDURE	21
TEST DATD: SEE APPENDIX	21
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....	22
APPLICABLE STANDARD	22
TEST PROCEDURE	22
TEST DATD: SEE APPENDIX	22

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	23
APPLICABLE STANDARD	23
TEST PROCEDURE	23
TEST DATD: SEE APPENDIX	23
FCC §15.247(d) - BAND EDGES & CONDUCTED SPURIOUS EMISSION	24
APPLICABLE STANDARD	24
TEST PROCEDURE	24
TEST DATD: SEE APPENDIX	25
APPENDIX - TEST DATA.....	26
RADIATED EMISSIONS & RESTRICTED BANDS EMISSIONS	26
CHANNEL SEPARATION TEST	46
20 dB BANDWIDTH TEST	48
QUANTITY OF HOPPING CHANNEL TEST	51
TIME OF OCCUPANCY (DWELL TIME).....	53
PEAK OUTPUT POWER MEASUREMENT	58
BAND EDGES.....	61
CONDUCTED SPURIOUS EMISSION	64
EUT PHOTOGRAPHS	67
TEST SETUP PHOTOGRAPHS	68

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RBJ260304001-00E	R1V1	2026-07-04	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	AgiBot Innovation(Shanghai) Technology Co.,Ltd.
Tested Model:	ZYCXD125M
Product Name:	AGIBOT Quadruped Robot
Power Supply:	DC 54V from battery
Maximum Output Power:	GFSK: 0.37 dBm $\pi/4$ -DQPSK: 0.83 dBm 8DPSK: 1.31 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
Antenna Type	FPC Antenna
★Maximum Antenna Gain:	4.7 dBi
Sample/EUT Status	Good condition

Battery Charging Stand Information:

Model: ZSM-1-C01

Input: AC 100 - 240V, 50/60Hz, 15A

Output: DC 63.0V 20A

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: RBJ260304001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2026-03-04.)

Objective

This test report is prepared for *AgiBot Innovation(Shanghai) Technology Co.,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, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024[▲], 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)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454	/	/
26	2428	53	2455	/	/

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

The system was configured for testing in an engineering mode, which was provided by manufacturer

RF Test Tool: adb

★Power level: Default

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

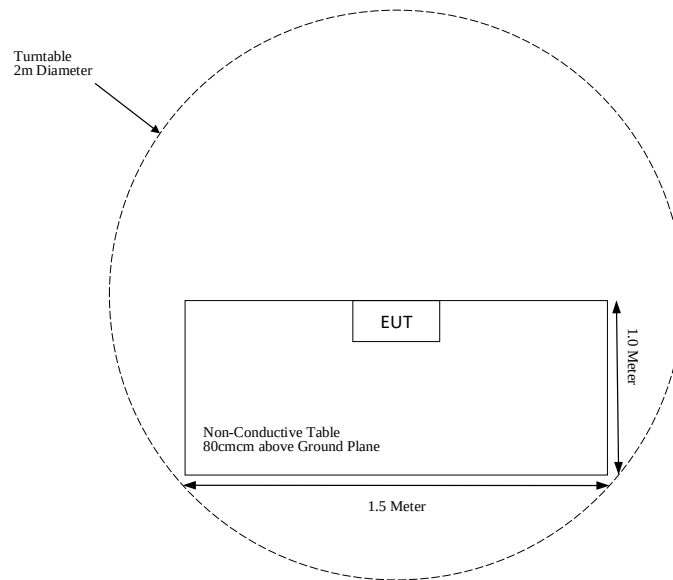
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

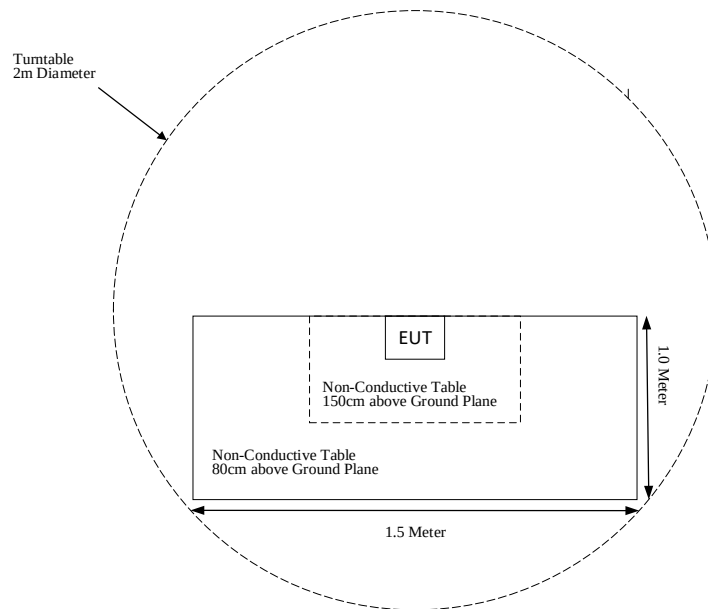
Cable Description	Length (m)	From Port	To Port
/	/	/	/

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)(1)& §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Not Applicable (See Note)
§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

Note: The EUT is powered by battery.

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
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2026-03-13	2027-03-12
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2024-10-29	2027-10-28
Narda	6dB Attenuator	771-6	10690812-2-1	2024-10-29	2027-10-28
BACL	Active Loop Antenna	1313-1A	4041511	2025-08-10	2028-08-09
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Sonoma Instrument	Pre-amplifier	310N	171205	2026-03-13	2027-03-12
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-8	008	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2026-03-13	2027-03-12
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2026-03-16	2027-03-15
EMCO	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2026-03-16	2027-03-15
SELECTOR	Amplifier	EM18G40G	060726	2026-03-16	2027-03-15
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2026-04-08	2027-04-07
Narda	Attenuator	10dB	010	2026-03-16	2027-03-15
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-25	025	2026-03-12	2027-03-11
MICRO-COAX	Coaxial Cable	Cable-11	011	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-12	012	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-13	013	2026-03-16	2027-03-15

RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSU26	200103	2026-03-16	2027-03-15
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2026-03-16	2027-03-15
Narda	Attenuator	10dB	010	2026-03-16	2027-03-15
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

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 §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G WiFi	2412-2462	4.4	2.75	24	251.19	20	0.1374	1.0
5G WiFi	5150-5250	3.8	2.40	18	63.10	20	0.0301	1.0
	5250-5350	4.0	2.51	18	63.10	20	0.0315	1.0
	5470-5725	5.0	3.16	15	31.62	20	0.0199	1.0
	5725-5850	5.5	3.55	20	100.00	20	0.0706	1.0
2.4G SRD	2411-2466	3.6	2.29	20	100.00	20	0.0456	1.0
5.8G SRD	5730-5840	5.2	3.31	9	7.94	20	0.0052	1.0
Classic BT	2402-2480	4.7	2.95	2	1.58	20	0.0009	1.0

Note:

1. For the above tune up power were declared by the manufacturer.
2. The WiFi, SRD and Classic BT can be transmitting simultaneously, So

$$\sum_i \frac{S_i}{S_{Limit,i}} = 0.1374 + 0.0456 + 0.0009 = 0.1839 < 1.0$$

Result: The device meet FCC MPE at 20 cm distance.

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.

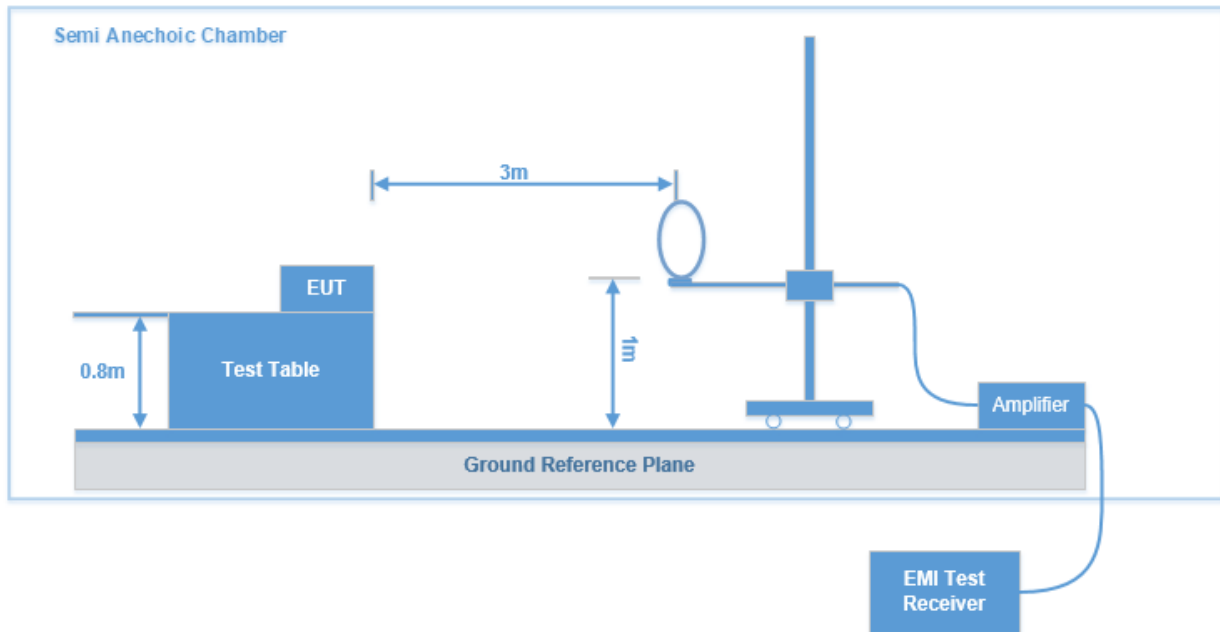
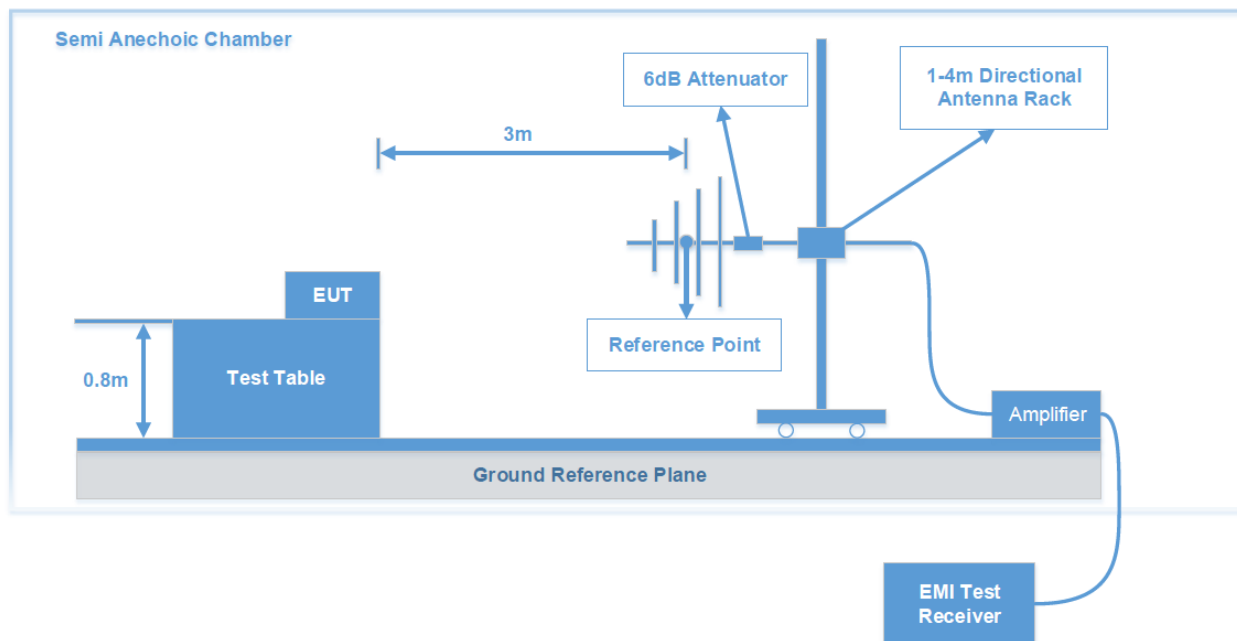
Antenna Connector Construction

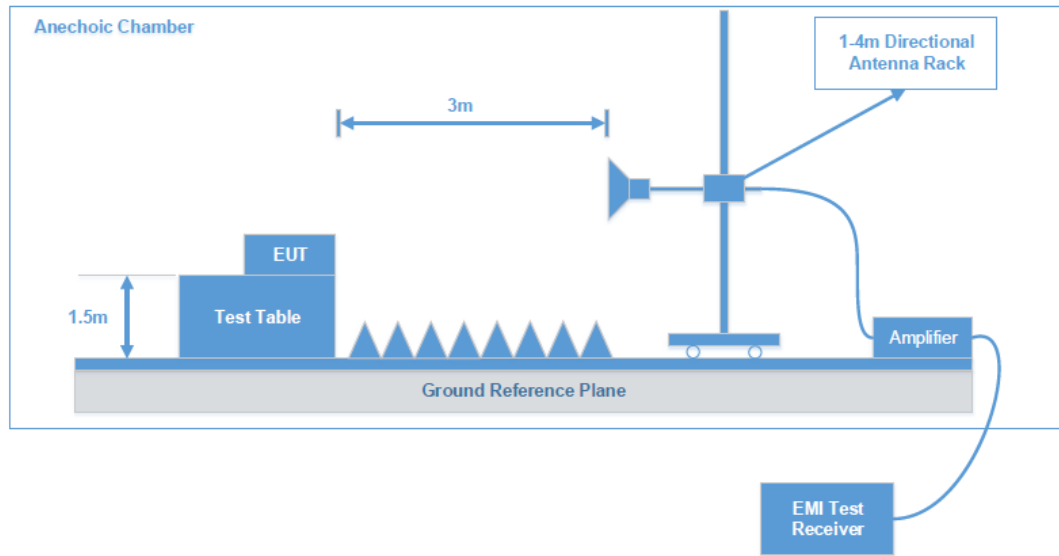
The EUT have an FPC antenna which permanently attached to the unit. Fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

FCC §15.205, §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:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - 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:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/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.

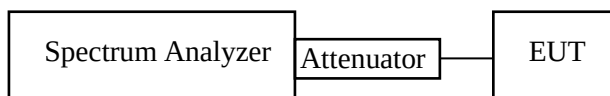
Test Procedure

According to ANSI C63.10a-2024 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) $\geq 1/10^{\text{th}}$ the RBW.
- Sweep: No faster than coupled (auto) time.
- 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

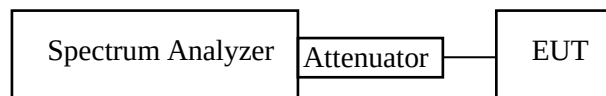
Applicable Standard

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.

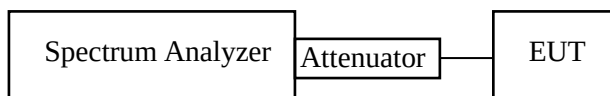
Test Procedure

According to ANSI C63.10a-2024 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 $\geq 1/10^{\text{th}}$ the 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

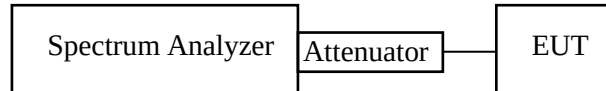
Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions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

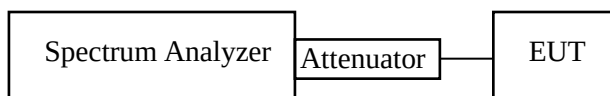
According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125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

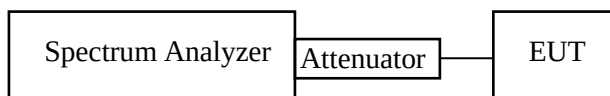
Applicable Standard

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)).

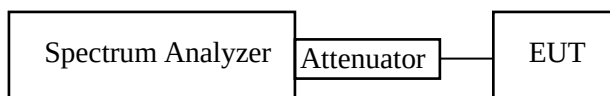
Test Procedure

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 (13dB) = Attenuator (10dB) + Cable Loss (3.0dB)

Test Datd: See Appendix

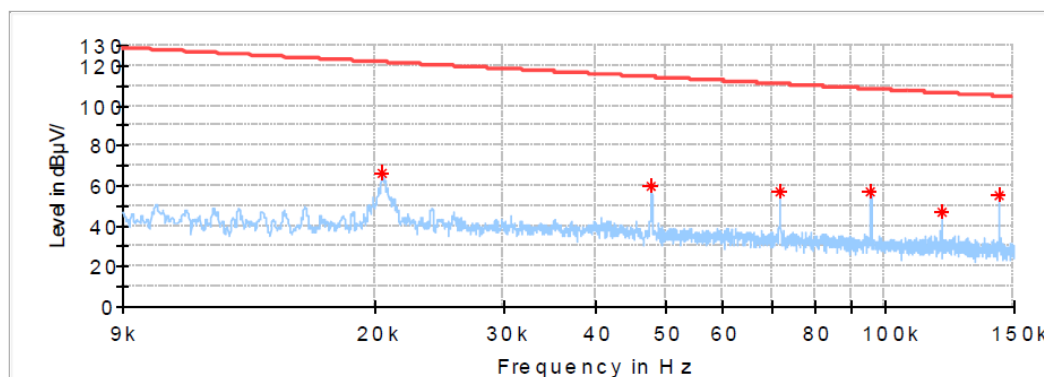
APPENDIX - TEST DATA**RADIATED EMISSIONS & RESTRICTED BANDS EMISSIONS****Environmental Conditions & Test Information**

Test Item:	SPURIOUS EMISSIONS			
	9kHz – 30MHz	30MHz - 1GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2026-04-14	2026-03-09	2026-03-20&2026-05-15	2026-04-03
Temperature:	19.4 °C	19.5 °C	17.3°C&24.5°C	21.6 °C
Relative Humidity:	62 %	54 %	48 %	53 %
ATM Pressure:	101.4 kPa	102.5 kPa	102.3kPa&101.9 kPa	102.5kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

EUT operation mode: Transmitting

9kHz-150kHz Transmitting in 8DPSK Mode high channel (maximum output power mode):**Parallel(worst case)****High Channel: 2480 MHz****Common Information**

Project No: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in 3DH5 mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW: 200 Hz, VBW: 1 kHz, Sweep Time: Auto
Temperature: 19.4°C
Humidity: 62%
Barometric Pressure: 101.4kPa
Test Engineer: Scarf Yang
Check by: Jenny Yang
Test Date: 2026/4/14

**Critical_Freqs**

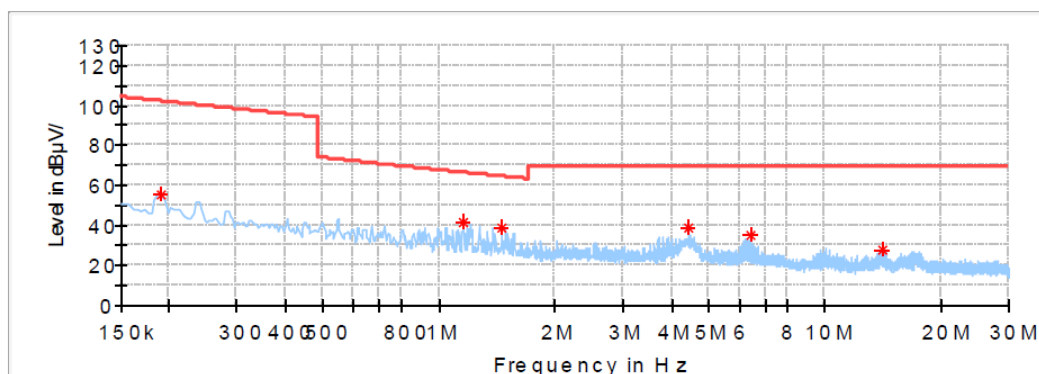
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.020421	66.11	121.40	55.29	Parallel	-0.1
0.047793	59.56	114.01	54.46	Parallel	-2.9
0.071692	57.36	110.50	53.14	Parallel	-5.8
0.095592	57.36	108.00	50.64	Parallel	-8.1
0.119491	46.99	106.05	59.07	Parallel	-9.3
0.143355	55.43	104.47	49.04	Parallel	-10.4

150kHz-30MHz Transmitting in 8DPSK Mode high channel (maximum output power mode):
Parallel(worst case)

High Channel: 2480 MHz

Common Information

Project No: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in 3DH5 mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature: 19.4°C
Humidity: 62%
Barometric Pressure: 101.4kPa
Test Engineer: Scarf Yang
Check by: Jenny Yang
Test Date: 2026/4/14

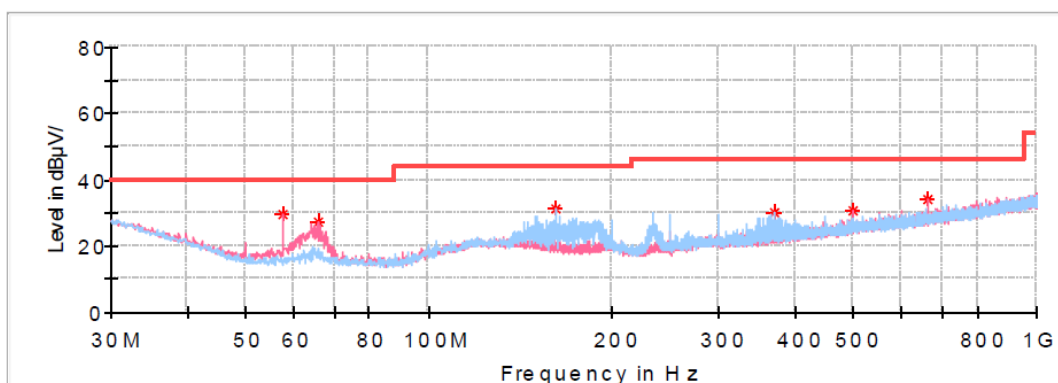


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.191044	55.02	101.89	46.88	Parallel	-12.4
1.157438	41.20	66.15	24.95	Parallel	-27.6
1.452206	38.88	64.27	25.39	Parallel	-28.6
4.433475	38.76	69.54	30.78	Parallel	-31.3
6.437156	34.65	69.54	34.89	Parallel	-31.6
14.082488	27.74	69.54	41.80	Parallel	-32.2

30 MHz - 1 GHz Transmitting in 8DPSK Mode high channel (maximum output power mode):**High Channel: 2480 MHz****Common Information**

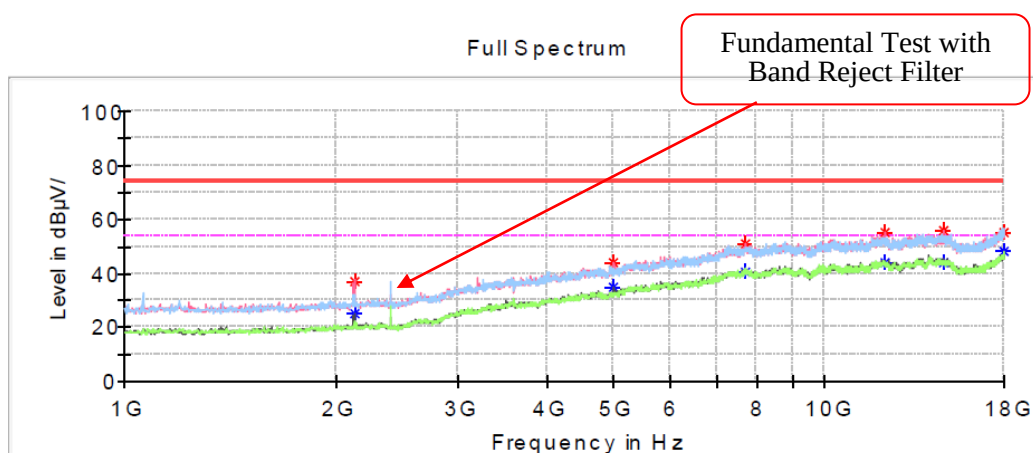
Project No: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in 3DH5 mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 19.5°C
Humidity: 54%
Barometric Pressure: 102.5kPa
Test Engineer: Scarf Yang
Check by: Jenny Yang
Test Date: 2026/3/9

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
57.523750	29.64	40.00	10.36	V	-17.1
65.647500	27.28	40.00	12.72	V	-16.8
162.041250	30.93	43.50	12.57	H	-12.2
371.682500	30.03	46.00	15.97	H	-8.7
499.965000	30.41	46.00	15.59	V	-5.4
665.228750	33.95	46.00	12.05	V	-2.8

1 GHz - 18 GHz:**GFSK:****Low Channel: 2402 MHz****Common Information**

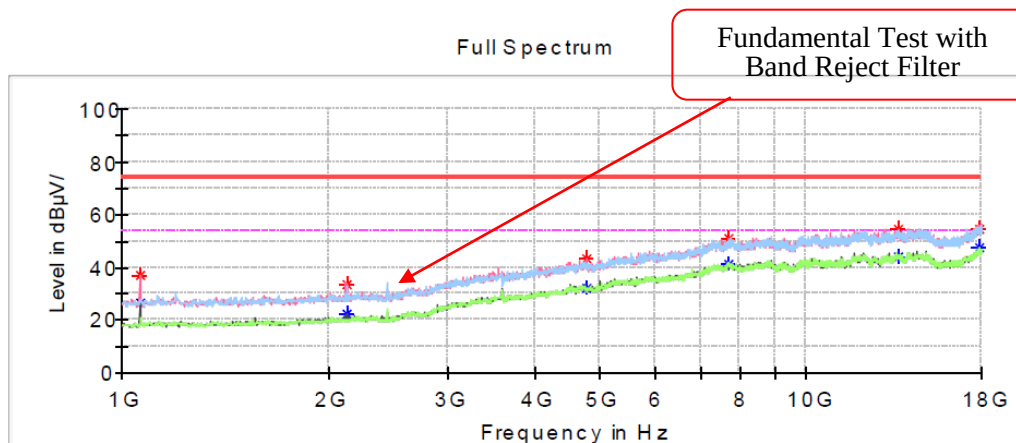
Project No.:	RBJ260304001
EUT Model:	ZYCXD125M
Test Mode:	Transmitting in BT_1DH5 mode Low channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	24.5°C
Humidity:	48%
Atmospheric Pressure:	101.9 kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/5/15

**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)
2128.800000	37.00	---	74.00	37.00	V	-11.3
2128.800000	---	24.94	54.00	29.06	V	-11.3
4998.400000	---	35.03	54.00	18.97	V	-2.8
4998.400000	43.80	---	74.00	30.20	V	-2.8
7704.800000	---	40.84	54.00	13.16	V	3.4
7704.800000	51.04	---	74.00	22.96	V	3.4
12162.200000	---	44.22	54.00	9.78	V	8.9
12162.200000	55.13	---	74.00	18.87	V	8.9
14742.800000	---	44.04	54.00	9.96	V	10.3
14742.800000	56.01	---	74.00	17.99	V	10.3
17962.600000	55.59	---	74.00	18.41	H	13.6
17962.600000	---	47.97	54.00	6.03	H	13.6

Middle Channel: 2441 MHz**Common Information**

Project No.: RBJ260304001
 EUT Model: ZYCXD125M
 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: 24.5°C
 Humidity: 48%
 Atmospheric Pressure: 101.9 kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/15

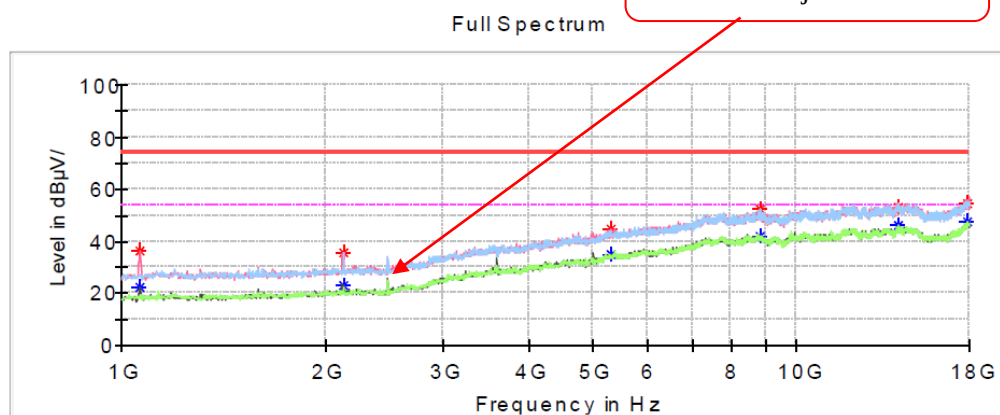
**Critical_Freqs**

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	36.77	---	74.00	37.23	V	-15.9
1061.200000	---	26.62	54.00	27.38	V	-15.9
2125.400000	33.25	---	74.00	40.75	V	-11.3
2125.400000	---	22.44	54.00	31.56	V	-11.3
4760.400000	43.68	---	74.00	30.32	V	-3.6
4760.400000	---	32.35	54.00	21.65	V	-3.6
7698.000000	51.24	---	74.00	22.76	V	3.4
7698.000000	---	41.49	54.00	12.51	V	3.4
13627.600000	54.87	---	74.00	19.13	H	9.9
13627.600000	---	43.98	54.00	10.02	H	9.9
17901.400000	54.53	---	74.00	19.47	H	13.2
17901.400000	---	47.62	54.00	6.38	H	13.2

High Channel: 2480 MHz**Common Information**

Project No.: RBJ260304001
 EUT Model: ZYCXD125M
 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: 24.5°C
 Humidity: 48%
 Atmospheric Pressure: 101.9 kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/15

Fundamental Test with
Band Reject Filter

**Critical_Freqs**

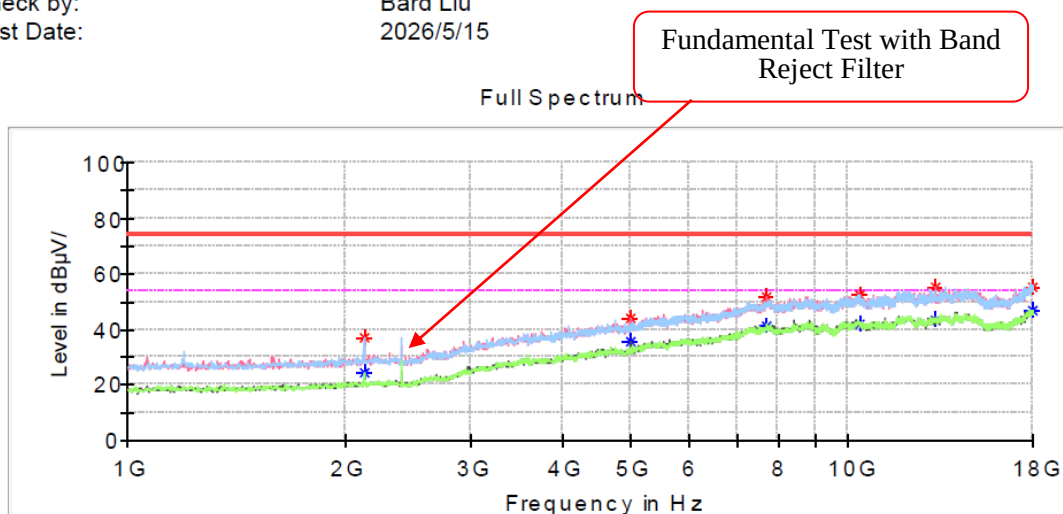
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	22.03	54.00	31.97	V	-15.9
1064.600000	36.36	---	74.00	37.64	V	-15.9
2128.800000	---	23.18	54.00	30.82	H	-11.3
2128.800000	35.87	---	74.00	38.13	H	-11.3
5301.000000	---	34.92	54.00	19.08	V	-2.1
5301.000000	45.09	---	74.00	28.91	V	-2.1
8840.400000	---	42.30	54.00	11.70	V	4.8
8840.400000	52.17	---	74.00	21.83	V	4.8
14137.600000	52.84	---	74.00	21.16	V	10.8
14137.600000	---	46.09	54.00	7.91	V	10.8
17843.600000	---	47.29	54.00	6.71	H	12.9
17843.600000	54.30	---	74.00	19.70	H	12.9

$\pi/4$ -DQPSK:

Low Channel: 2402 MHz

Common Information

Project No.: RBJ260304001
EUT Model: ZYCXD125M
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: 24.5°C
Humidity: 48%
Atmospheric Pressure: 101.9 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/5/15

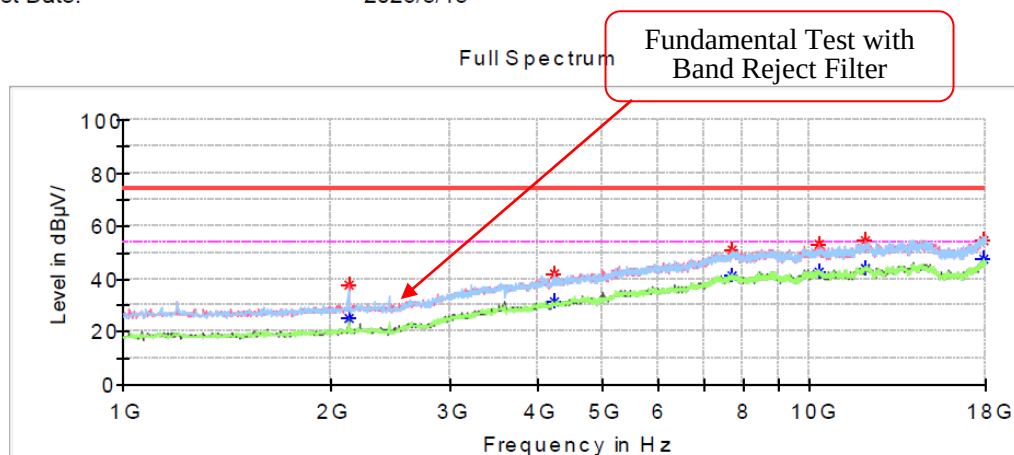


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2125.400000	37.26	---	74.00	36.74	H	-11.3
2125.400000	---	24.78	54.00	29.22	H	-11.3
4998.400000	44.21	---	74.00	29.79	V	-2.8
4998.400000	---	35.47	54.00	18.53	V	-2.8
7715.000000	51.50	---	74.00	22.50	V	3.4
7715.000000	---	41.28	54.00	12.72	V	3.4
10336.400000	52.43	---	74.00	21.57	V	6.6
10336.400000	---	41.91	54.00	12.09	V	6.6
13178.800000	55.40	---	74.00	18.60	V	9.1
13178.800000	---	43.32	54.00	10.68	V	9.1
17969.400000	55.09	---	74.00	18.91	H	13.6
17969.400000	---	47.13	54.00	6.87	H	13.6

Middle Channel: 2441 MHz**Common Information**

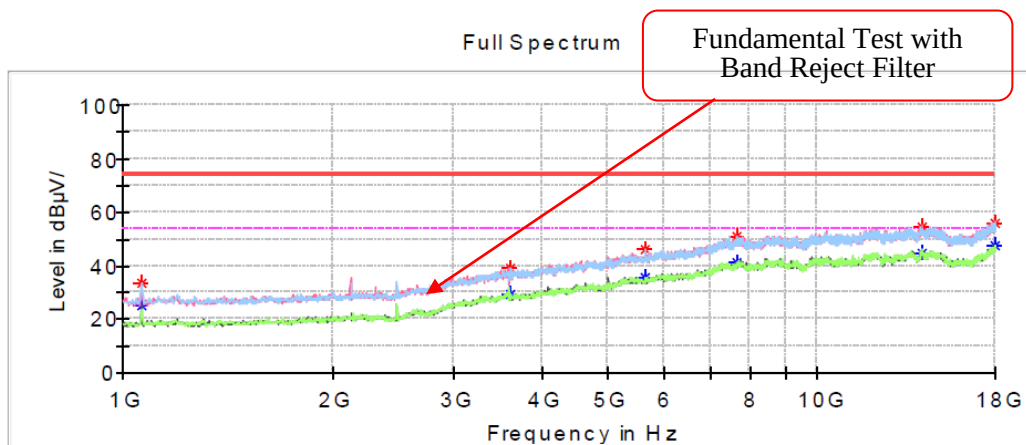
Project No.: RBJ260304001
 EUT Model: ZYCXD125M
 Test Mode: Transmitting in BT_2DH5 mode Middle channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 24.5°C
 Humidity: 48%
 Atmospheric Pressure: 101.9 kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/15

**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)
2132.200000	37.83	---	74.00	36.17	V	-11.3
2132.200000	---	25.34	54.00	28.66	V	-11.3
4243.600000	41.76	---	74.00	32.24	V	-4.7
4243.600000	---	31.28	54.00	22.72	V	-4.7
7698.000000	---	41.56	54.00	12.44	H	3.4
7698.000000	50.97	---	74.00	23.03	H	3.4
10319.400000	---	42.72	54.00	11.28	H	6.6
10319.400000	53.20	---	74.00	20.80	H	6.6
12002.400000	---	43.80	54.00	10.20	V	9.0
12002.400000	54.86	---	74.00	19.14	V	9.0
17918.400000	54.62	---	74.00	19.38	H	13.3
17918.400000	---	47.33	54.00	6.67	H	13.3

High Channel: 2480 MHz**Common Information**

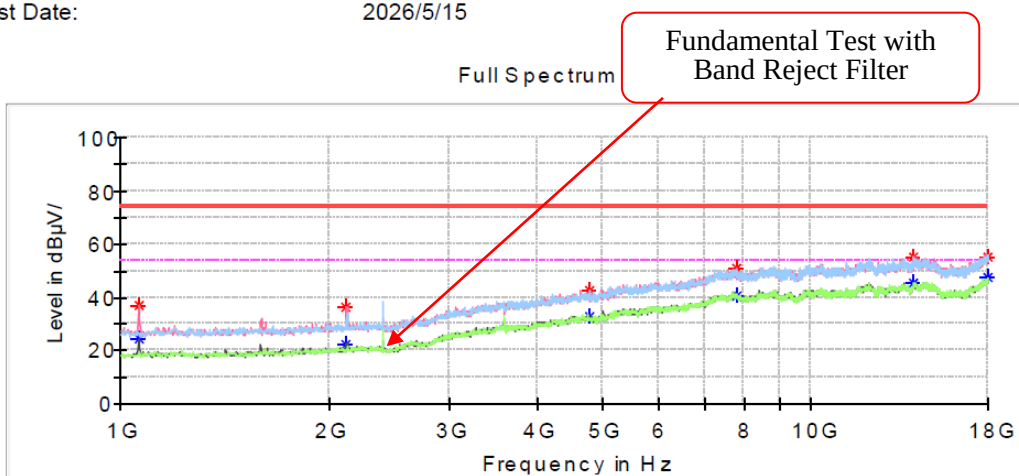
Project No.:	RBJ260304001
EUT Model:	ZYCXD125M
Test Mode:	Transmitting in BT_2DH5 mode High channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	24.5℃
Humidity:	48%
Atmospheric Pressure:	101.9 kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/5/15

**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	33.69	---	74.00	40.31	H	-15.9
1061.200000	---	24.89	54.00	29.11	H	-15.9
3621.400000	39.45	---	74.00	34.55	H	-5.9
3621.400000	---	29.17	54.00	24.83	H	-5.9
5654.600000	45.89	---	74.00	28.11	H	-1.3
5654.600000	---	35.48	54.00	18.52	H	-1.3
7653.800000	51.09	---	74.00	22.91	V	3.3
7653.800000	---	41.01	54.00	12.99	V	3.3
14093.400000	54.42	---	74.00	19.58	V	10.7
14093.400000	---	44.52	54.00	9.48	V	10.7
17976.200000	55.65	---	74.00	18.35	V	13.7
17976.200000	---	47.45	54.00	6.55	V	13.7

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

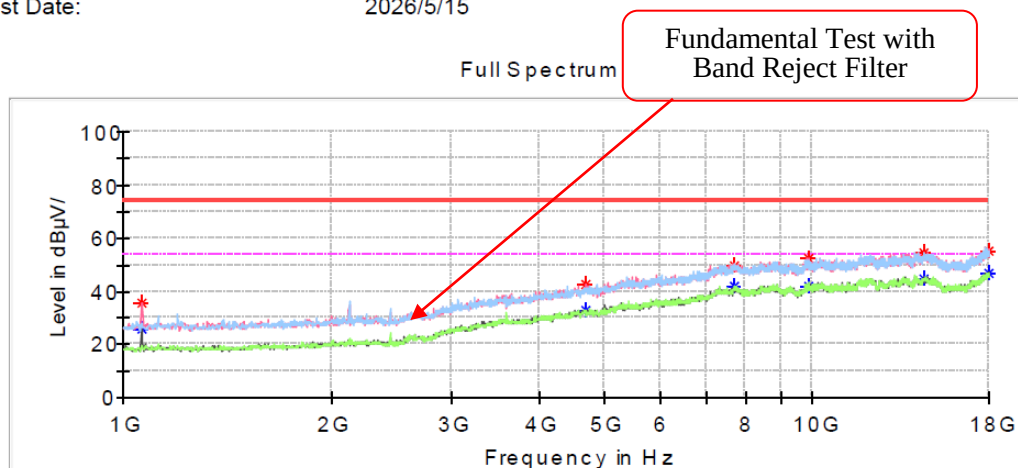
Project No.: RBJ260304001
 EUT Model: ZYCXD125M
 Test Mode: Transmitting in BT_3DH5 mode Low channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 24.5°C
 Humidity: 48%
 Atmospheric Pressure: 101.9 kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/15

**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	---	24.60	54.00	29.40	V	-15.9
1061.200000	37.35	---	74.00	36.65	V	-15.9
2122.000000	---	22.72	54.00	31.28	V	-11.3
2122.000000	36.04	---	74.00	37.96	V	-11.3
4763.800000	---	33.05	54.00	20.95	H	-3.6
4763.800000	42.81	---	74.00	31.19	H	-3.6
7806.800000	51.02	---	74.00	22.98	V	3.4
7806.800000	---	40.29	54.00	13.71	V	3.4
14062.800000	55.53	---	74.00	18.47	V	10.7
14062.800000	---	45.68	54.00	8.32	V	10.7
17996.600000	---	47.42	54.00	6.58	V	13.8
17996.600000	55.05	---	74.00	18.95	V	13.8

Middle Channel: 2441 MHz**Common Information**

Project No.: RBJ260304001
 EUT Model: ZYCXD125M
 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: 24.5℃
 Humidity: 48%
 Atmospheric Pressure: 101.9 kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/15

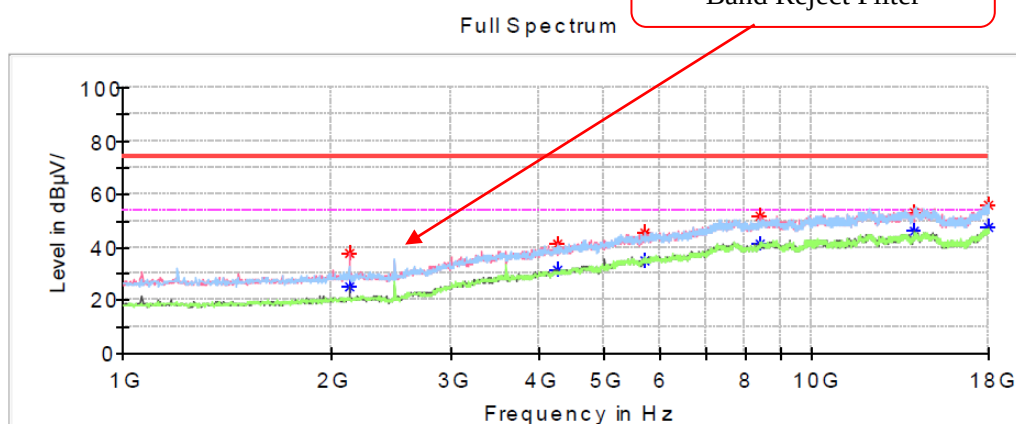
**Critical_Freqs**

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	---	25.59	54.00	28.41	V	-15.9
1061.200000	35.50	---	74.00	38.50	V	-15.9
4682.200000	---	32.96	54.00	21.04	V	-3.8
4682.200000	42.78	---	74.00	31.22	V	-3.8
7691.200000	49.51	---	74.00	24.49	H	3.4
7691.200000	---	41.98	54.00	12.02	H	3.4
9853.600000	---	41.84	54.00	12.16	H	5.9
9853.600000	52.69	---	74.00	21.31	H	5.9
14464.000000	---	44.41	54.00	9.59	H	11.1
14464.000000	54.47	---	74.00	19.53	H	11.1
17993.200000	55.03	---	74.00	18.97	H	13.8
17993.200000	---	47.20	54.00	6.80	H	13.8

High Channel: 2480 MHz**Common Information**

Project No.: RBJ260304001
EUT Model: ZYCXD125M
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: 24.5°C
Humidity: 48%
Atmospheric Pressure: 101.9 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/5/15

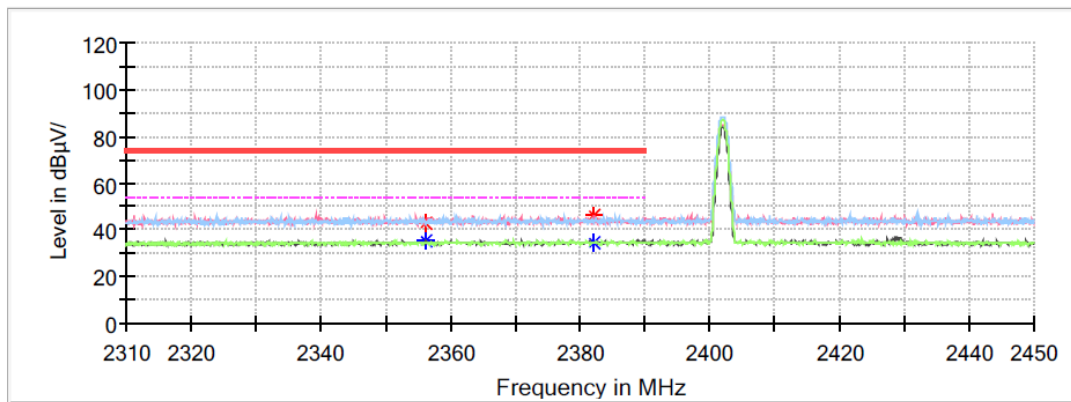
Fundamental Test with
Band Reject Filter

**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)
2132.200000	37.56	---	74.00	36.44	V	-11.3
2132.200000	---	25.06	54.00	28.94	V	-11.3
4264.000000	---	31.36	54.00	22.64	V	-4.7
4264.000000	41.32	---	74.00	32.68	V	-4.7
5719.200000	---	34.80	54.00	19.20	H	-1.2
5719.200000	45.42	---	74.00	28.58	H	-1.2
8418.800000	---	41.59	54.00	12.41	H	4.5
8418.800000	51.74	---	74.00	22.26	H	4.5
14066.200000	53.34	---	74.00	20.66	V	10.7
14066.200000	---	46.08	54.00	7.92	V	10.7
17996.600000	56.07	---	74.00	17.93	V	13.8
17996.600000	---	47.78	54.00	6.22	V	13.8

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

Project No.: RBJ260304001
EUT Model: ZYCXD125M
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: 17.3°C
Humidity: 48%
Atmospheric Pressure: 102.3 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/20

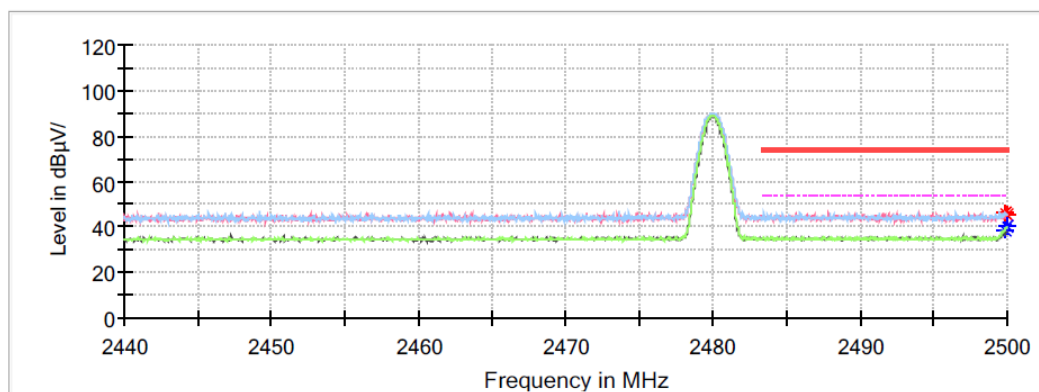
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2356.312000	---	35.43	54.00	18.57	H	0.3
2356.312000	42.88	---	74.00	31.12	H	0.3
2382.184000	---	34.39	54.00	19.61	H	0.4
2382.184000	46.02	---	74.00	27.98	H	0.4

Right Side**Common Information**

Project No.: RBJ260304001
EUT Model: ZYCXD125M
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: 17.3℃
Humidity: 48%
Atmospheric Pressure: 102.3 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/20

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)
2499.904000	---	38.68	54.00	15.32	H	0.5
2499.904000	46.51	---	74.00	27.49	H	0.5
2499.976000	---	40.13	54.00	13.87	H	0.5
2499.976000	45.64	---	74.00	28.36	H	0.5

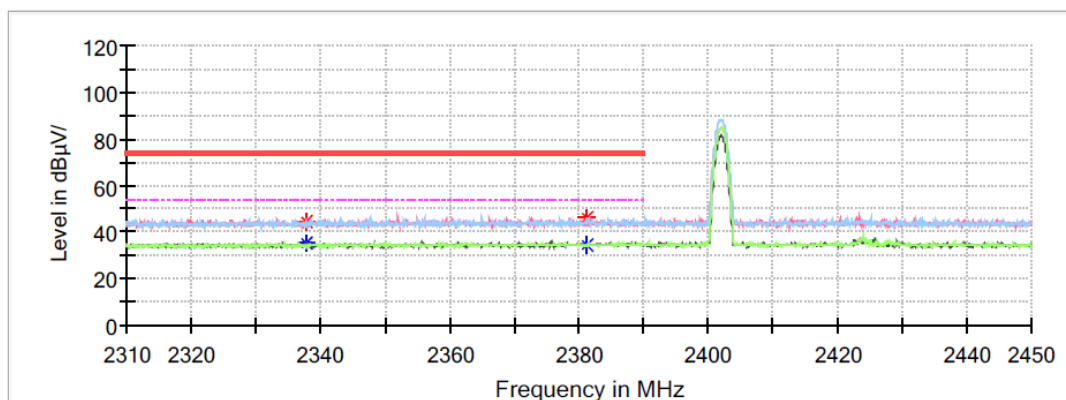
$\pi/4$ -DQPSK:

Left Side

Common Information

Project No.: RBJ260304001
EUT Model: ZYCXD125M
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: 17.3°C
Humidity: 48%
Atmospheric Pressure: 102.3 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/20

Full Spectrum



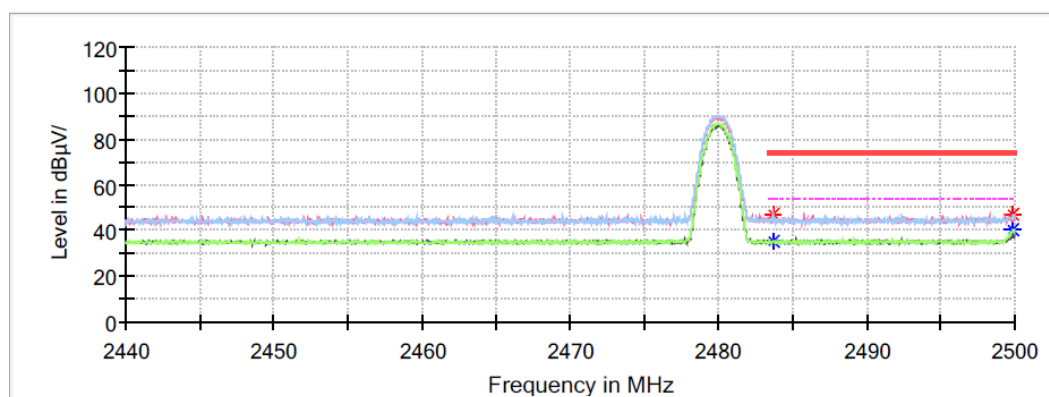
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2337.608000	44.42	---	74.00	29.58	H	0.3
2337.608000	---	35.55	54.00	18.45	H	0.3
2381.288000	46.56	---	74.00	27.44	H	0.4
2381.288000	---	34.60	54.00	19.40	H	0.4

Right Side**Common Information**

Project No.: RBJ260304001
EUT Model: ZYCXD125M
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: 17.3℃
Humidity: 48%
Atmospheric Pressure: 102.3 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/20

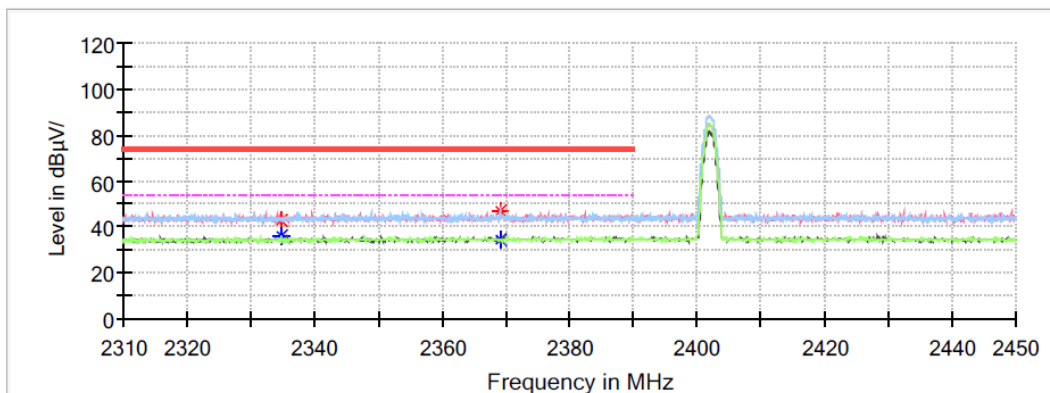
Full Spectrum

**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)
2483.752000	47.22	---	74.00	26.78	H	0.5
2483.752000	---	35.49	54.00	18.51	H	0.5
2499.880000	46.59	---	74.00	27.41	H	0.5
2499.880000	---	40.50	54.00	13.50	H	0.5

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

Project No.:	RBJ260304001
EUT Model:	ZYCXD125M
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:	17.3°C
Humidity:	48%
Atmospheric Pressure:	102.3 kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/3/20

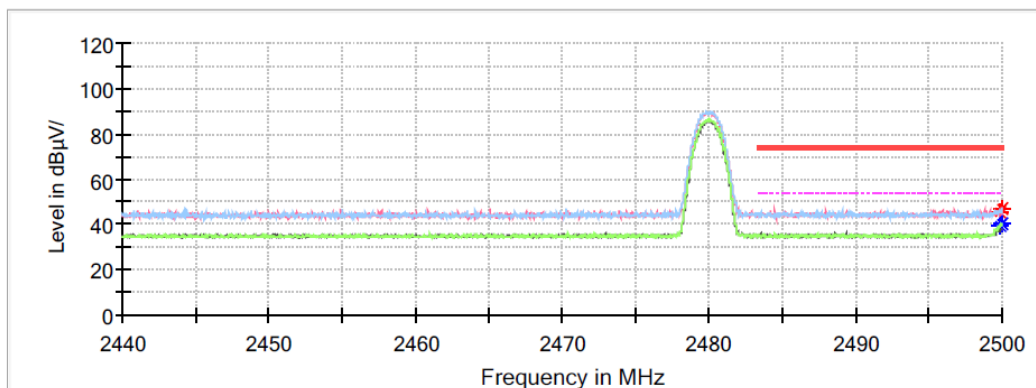
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2334.696000	---	35.79	54.00	18.21	H	0.3
2334.696000	43.17	---	74.00	30.83	H	0.3
2369.024000	---	34.27	54.00	19.73	H	0.4
2369.024000	46.90	---	74.00	27.10	H	0.4

Right Side**Common Information**

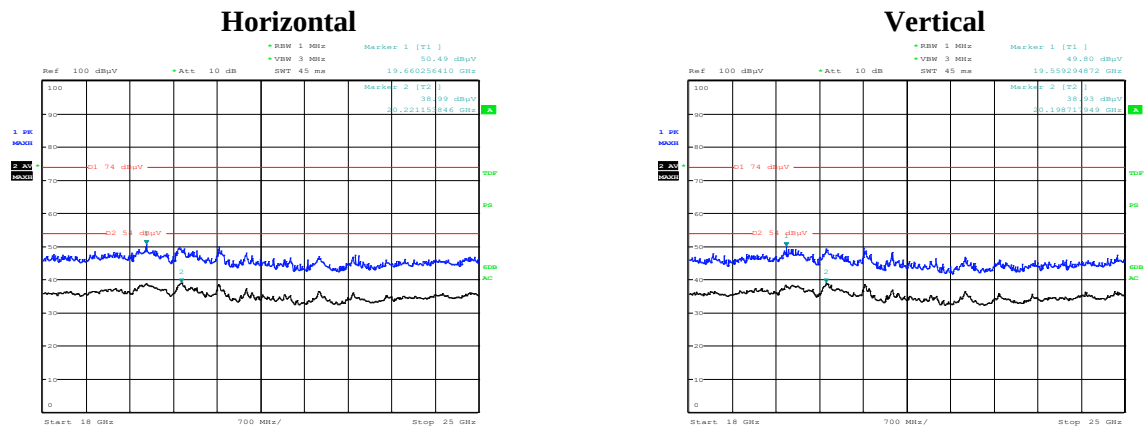
Project No.: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in BT_3DH5 mode High channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.3°C
Humidity: 48%
Atmospheric Pressure: 102.3 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/20

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)
2499.808000	45.68	---	74.00	28.32	H	0.5
2499.808000	---	39.61	54.00	14.39	H	0.5
2500.000000	---	40.01	54.00	13.99	H	0.5
2500.000000	46.59	---	74.00	27.41	H	0.5

18 GHz - 25 GHz (Transmitting in 8DPSK Mode high channel (maximum output power mode)):



Project No :RBJ260304001
Date: 3.APR.2026 14:47:46

Tester :Hugh Wu

Project No :RBJ260304001
Date: 3.APR.2026 15:20:29

Tester :Hugh Wu

Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.20	---	38.93	54	15.07	V	12.46
19.56	49.8	---	74	24.2	V	11.88
20.22	---	38.99	54	15.01	H	12.48
19.66	50.49	---	74	23.51	H	11.97

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

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

Test Date:	2026-03-28
Temperature:	21 °C
Relative Humidity:	52 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

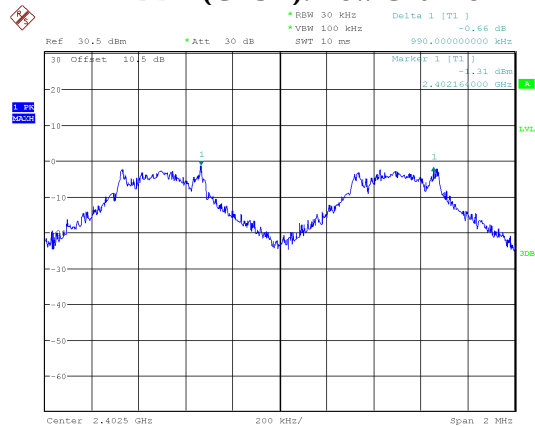
EUT operation mode: Transmitting

Mode	Channel	Result (MHz)	Limit (MHz)	Result
GFSK	Low	0.990	0.906	Pass
	Middle	1	0.906	Pass
	High	1.008	0.906	Pass

Note: Only GFSK mode result is reported since EDR($\pi/4$ -DQPSK, 8DPSK) has the exact same channel plan.

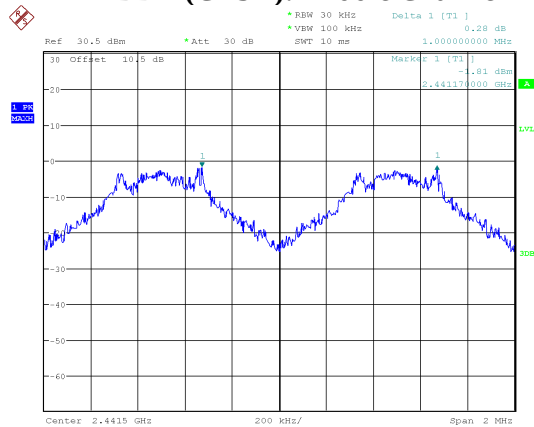
Limit = 20 dB bandwidth*2/3

BDR (GFSK): Low Channel



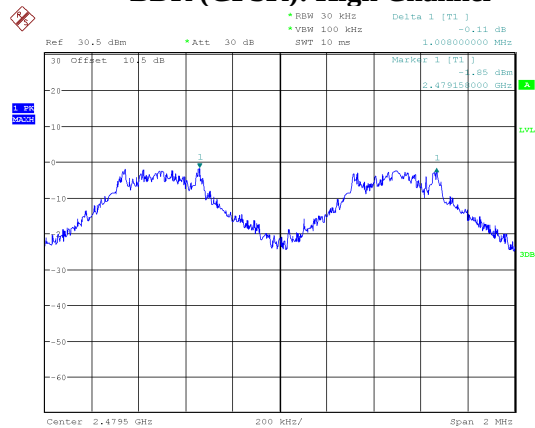
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:30:42

BDR (GFSK): Middle Channel



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:52:27

BDR (GFSK): High Channel



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:45:49

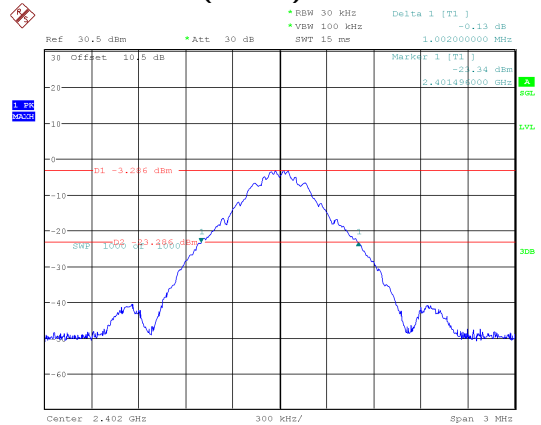
20 dB BANDWIDTH TEST**Environmental Conditions & Test Information**

Test Date:	2026-03-28
Temperature:	21 °C
Relative Humidity:	52 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

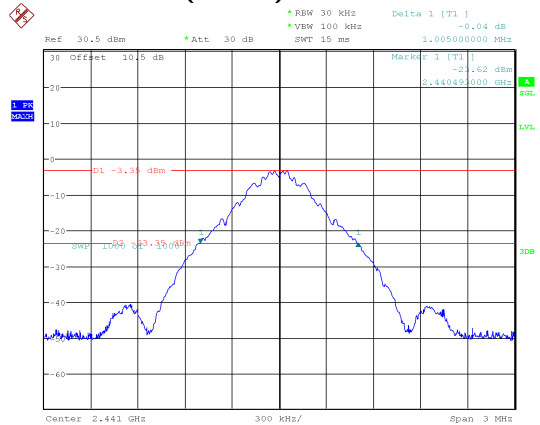
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	1.002
	Middle	2441	1.005
	High	2480	1.005
EDR ($\pi/4$-DQPSK)	Low	2402	1.359
	Middle	2441	1.356
	High	2480	1.356
EDR (8DPSK)	Low	2402	1.353
	Middle	2441	1.353
	High	2480	1.353

BDR (GFSK): Low Channel



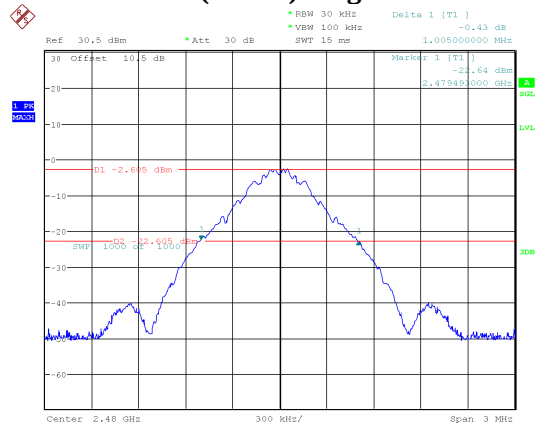
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 14:43:24

BDR (GFSK): Middle Channel



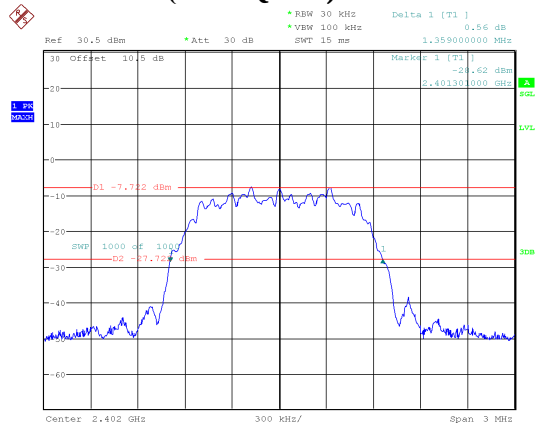
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:02:09

BDR (GFSK): High Channel



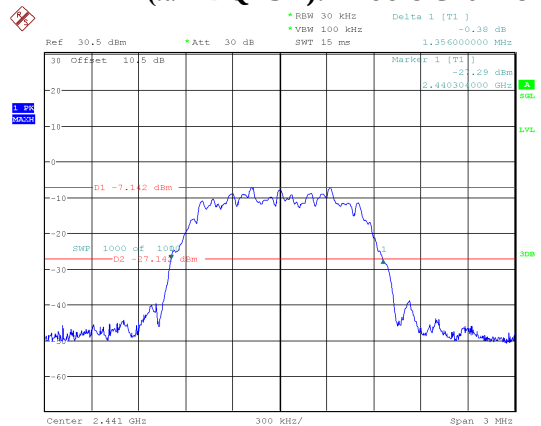
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:12:10

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



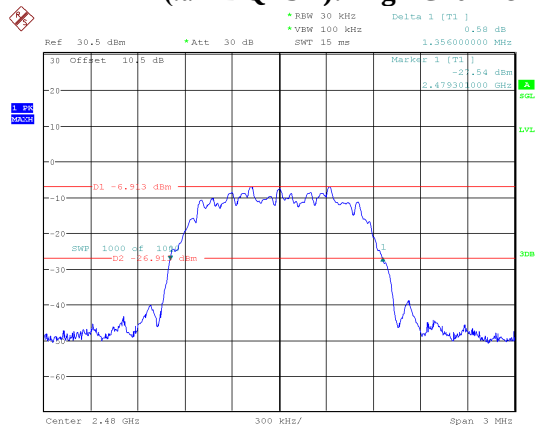
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:31:29

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

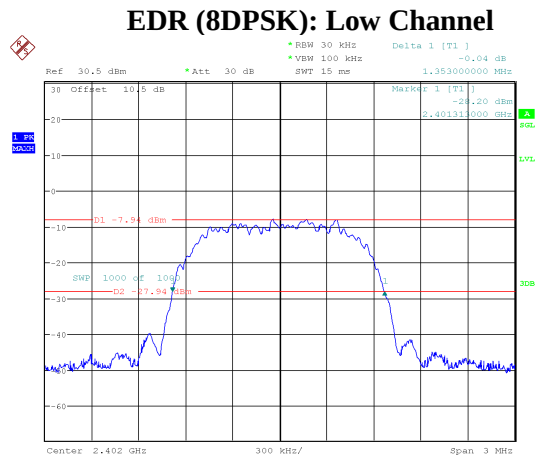


ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:44:12

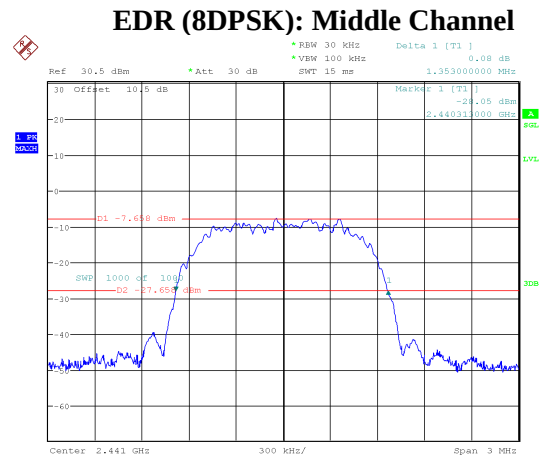
EDR ($\pi/4$ -DQPSK): High Channel



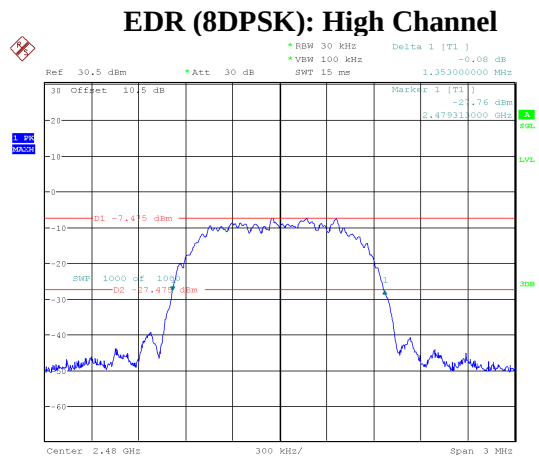
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:52:06



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:07:40



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:22:03



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:30:44

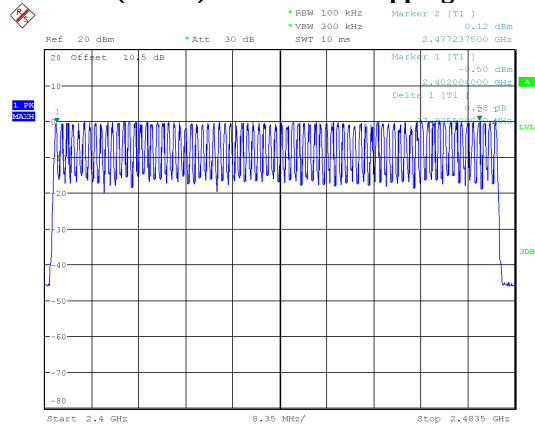
QUANTITY OF HOPPING CHANNEL TEST**Environmental Conditions & Test Information**

Test Date:	2026-03-28
Temperature:	21 °C
Relative Humidity:	52 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Hopping

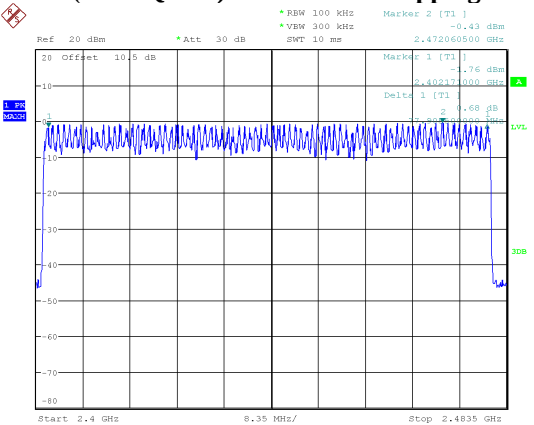
Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥15
EDR ($\pi/4$ -DQPSK)	2400-2483.5	79	≥15
EDR (8DPSK)	2400-2483.5	79	≥15

BDR (GFSK): Number of Hopping Channels



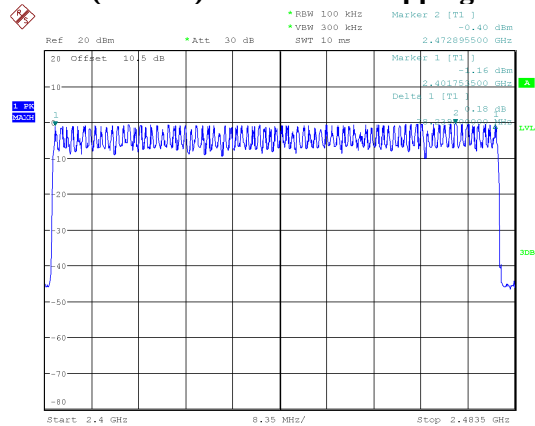
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:10:03

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



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:13:14

EDR (8DPSK): Number of Hopping Channels



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:18:06

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

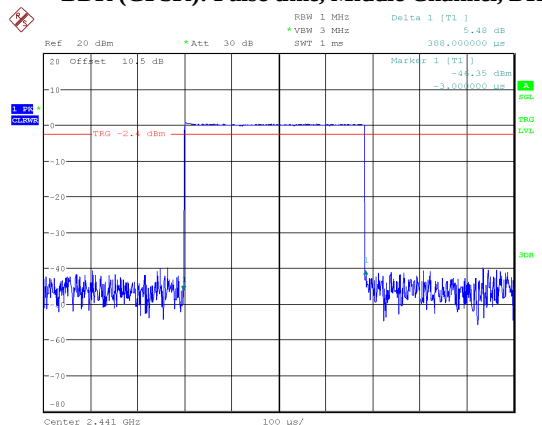
Test Date:	2026-03-30
Temperature:	22.3°C
Relative Humidity:	54 %
ATM Pressure:	101.6 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Hopping

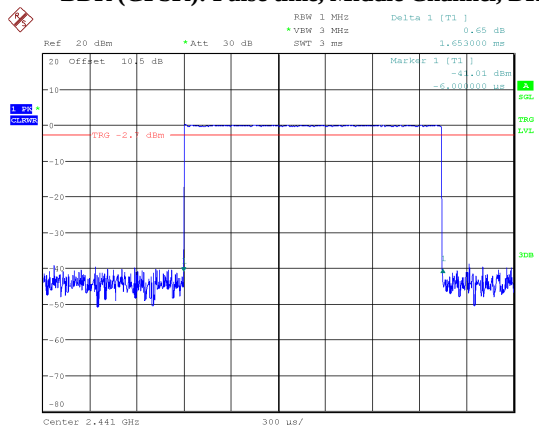
Mode		Channel	BurstWidth (ms)	TotalHops (Num)	Dwell time (s)	Limit (s)	Result
BDR (GFSK)	DH1	Middle	0.388	320	0.124	≤ 0.4	Pass
	DH3		1.653	160	0.264	≤ 0.4	Pass
	DH5		2.920	100	0.292	≤ 0.4	Pass
EDR ($\pi/4$ - DQPSK)	2DH1		0.398	320	0.127	≤ 0.4	Pass
	2DH3		1.659	170	0.282	≤ 0.4	Pass
	2DH5		2.925	120	0.351	≤ 0.4	Pass
EDR (8DPSK)	3DH1		0.397	320	0.127	≤ 0.4	Pass
	3DH3		1.656	190	0.315	≤ 0.4	Pass
	3DH5		2.930	110	0.322	≤ 0.4	Pass

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

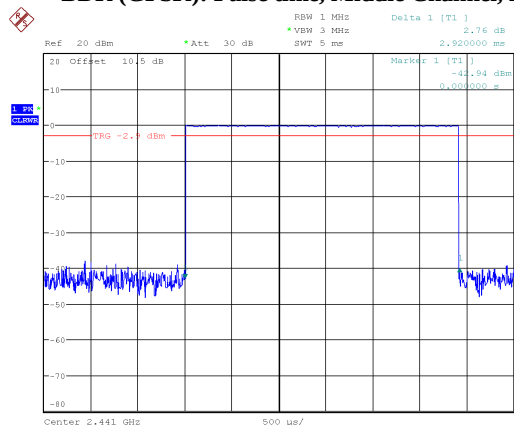
TotalHops (31.6s) = hopping numbers (3.16s)*10

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

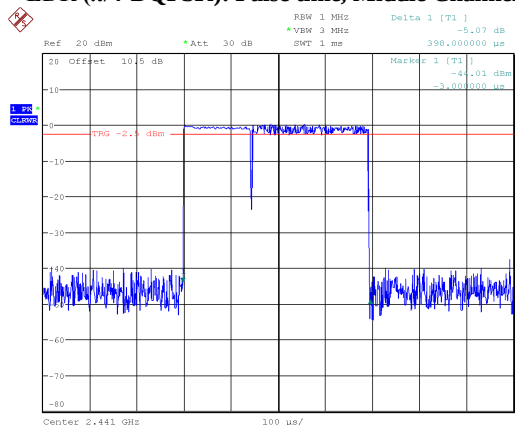
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:40:49

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

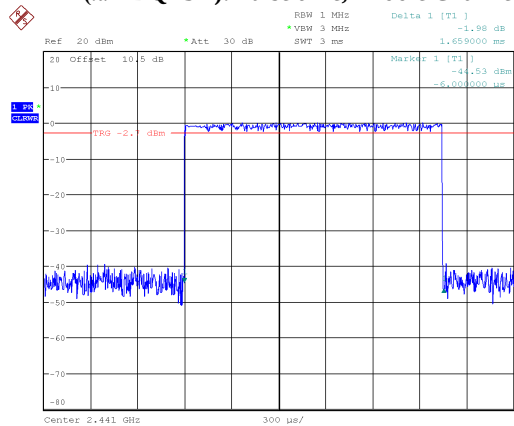
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:44:22

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

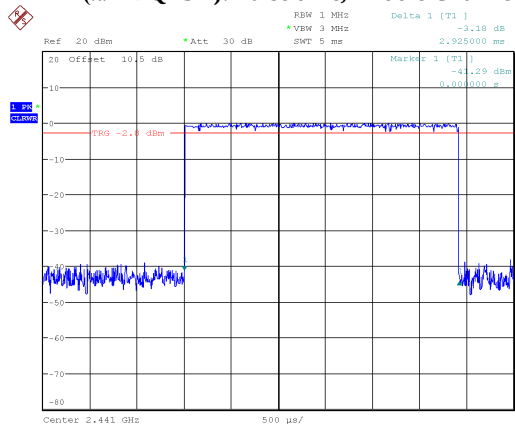
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:46:01

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

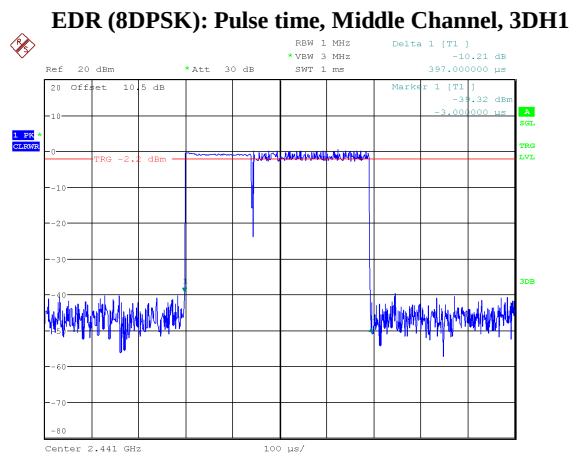
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:47:46

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

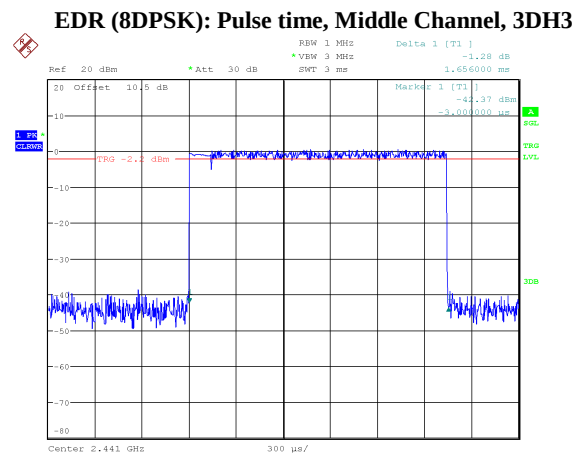
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:51:20

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

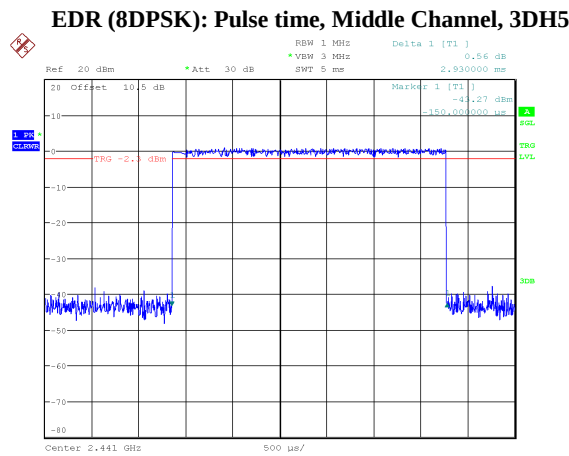
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:53:01



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:55:13

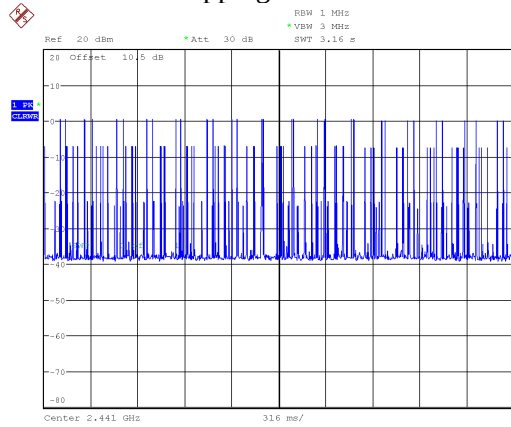


ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:57:39



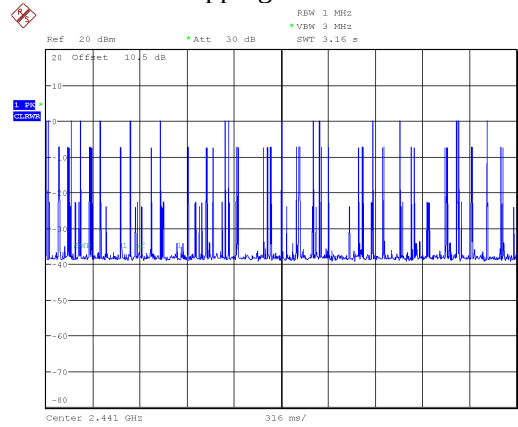
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:59:44

Hopping Numbers-DH1



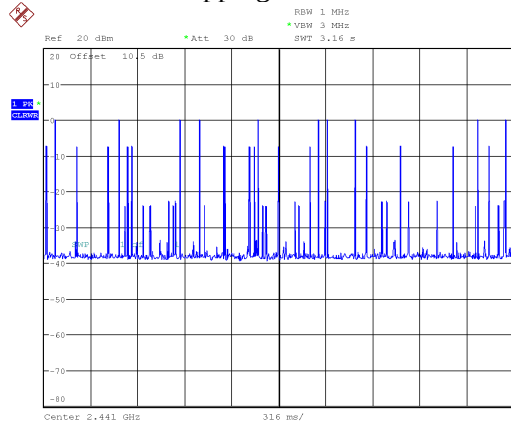
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:39:50

Hopping Numbers-DH3



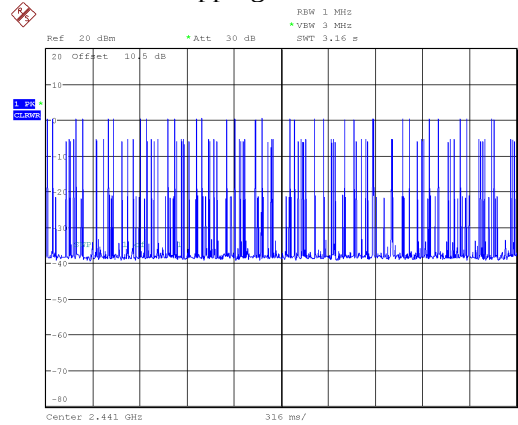
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:43:19

Hopping Numbers-DH5



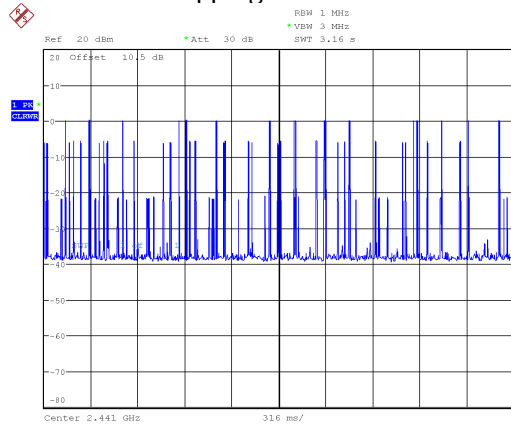
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:45:01

Hopping Numbers-2DH1



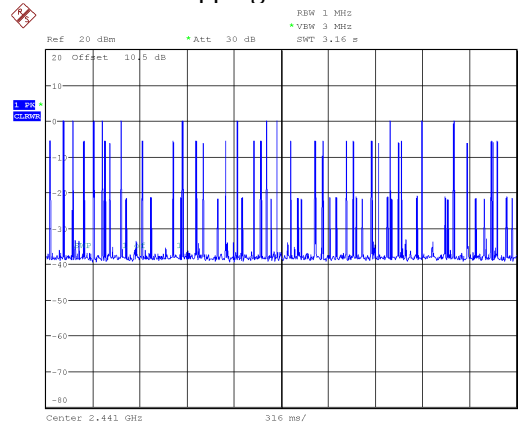
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:46:46

Hopping Numbers-2DH3



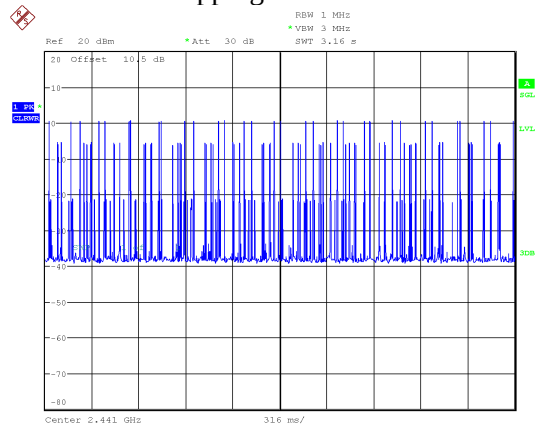
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:50:24

Hopping Numbers-2DH5



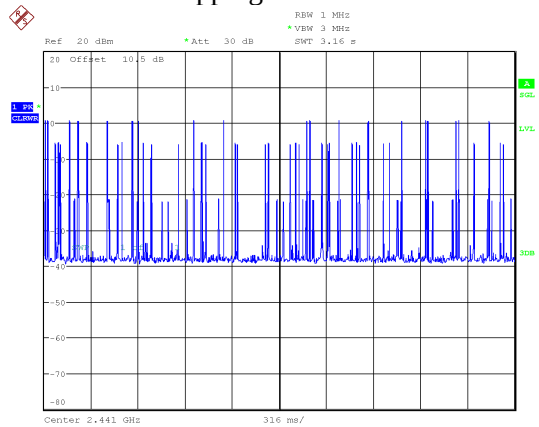
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:52:01

Hopping Numbers-3DH1



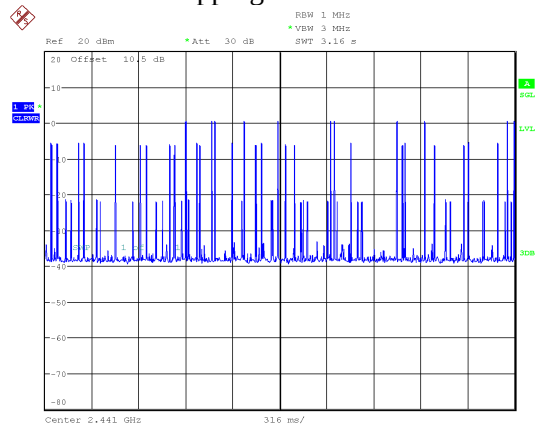
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:54:09

Hopping Numbers-3DH3



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:56:43

Hopping Numbers-3DH5



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 30.MAR.2026 09:58:13

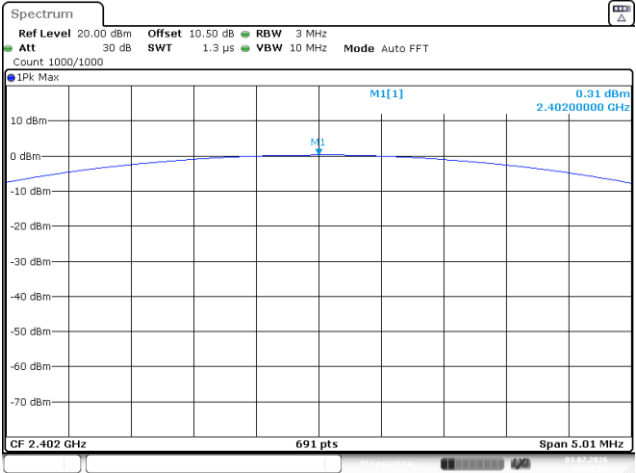
PEAK OUTPUT POWER MEASUREMENT**Environmental Conditions & Test Information**

Test Date:	2026-03-28 & 2026-07-03
Temperature:	21℃ & 22.3℃
Relative Humidity:	52 % & 47%
ATM Pressure:	102.8 kPa & 101.0kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

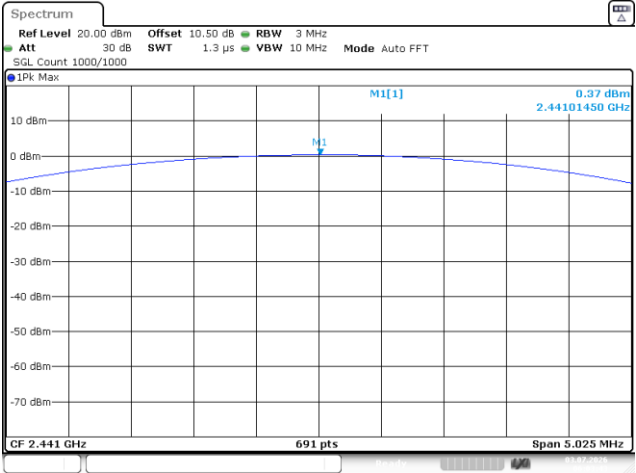
EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	Result (dBm)	Limit (dBm)
GFSK	Low	2402	0.31	21
	Middle	2441	0.37	
	High	2480	0.35	
$\pi/4$ DQPSK	Low	2402	0.79	
	Middle	2441	0.51	
	High	2480	0.83	
8DPSK	Low	2402	0.80	
	Middle	2441	1.00	
	High	2480	1.31	

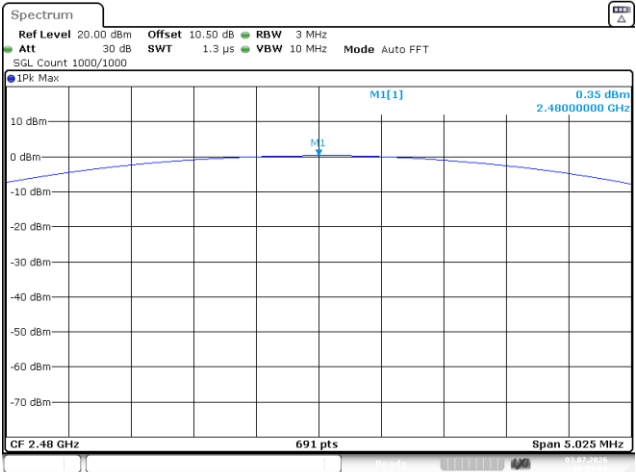
BDR (GFSK): 2402MHz



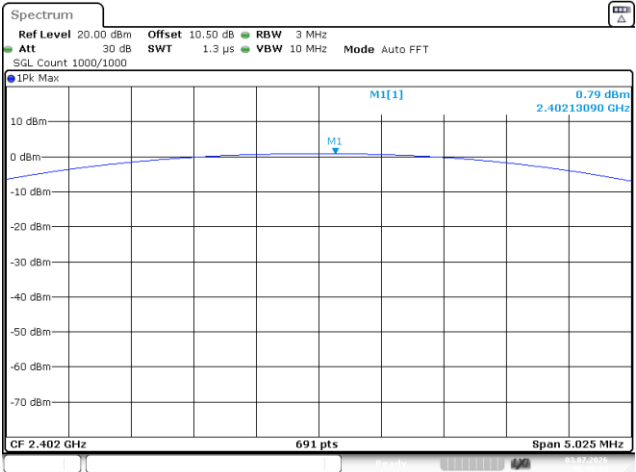
BDR (GFSK): 2441MHz



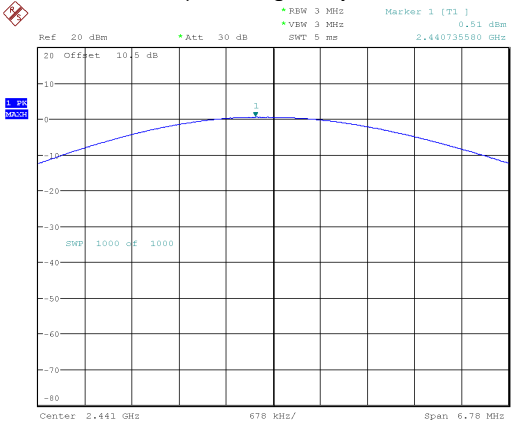
BDR (GFSK): 2480MHz



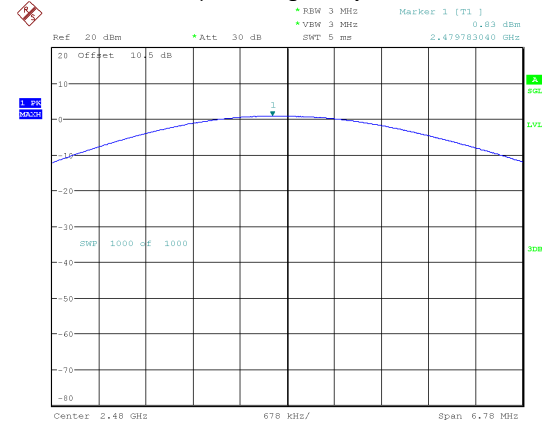
EDR($\pi/4$ -DQPSK): 2402MHz



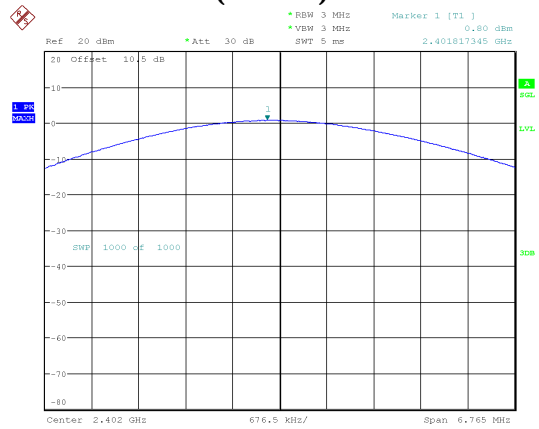
EDR($\pi/4$ -DQPSK): 2441MHz



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

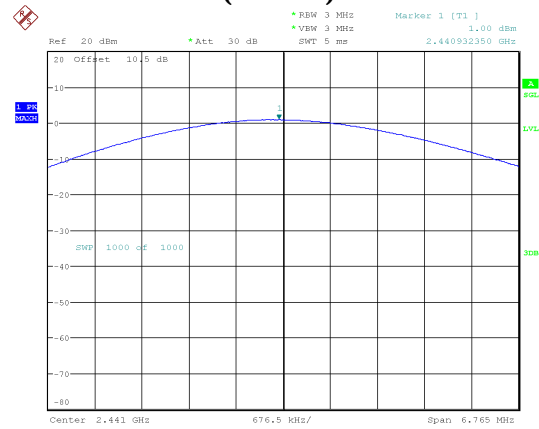


EDR(8DPSK): 2402MHz



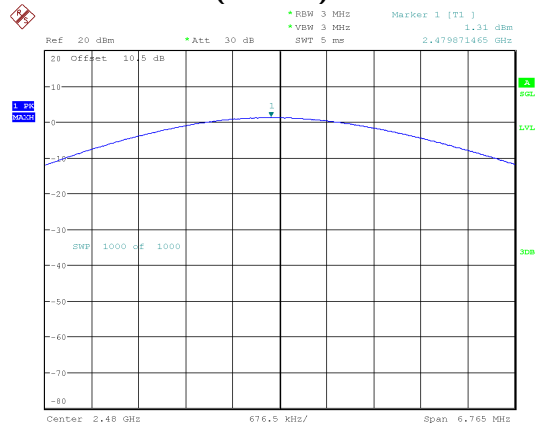
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:09:42

EDR(8DPSK):2441MHz



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:23:38

EDR(8DPSK): 2480MHz



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:32:27

BAND EDGES**Environmental Conditions & Test Information**

Test Date:	2026-03-28
Temperature:	21 °C
Relative Humidity:	52 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

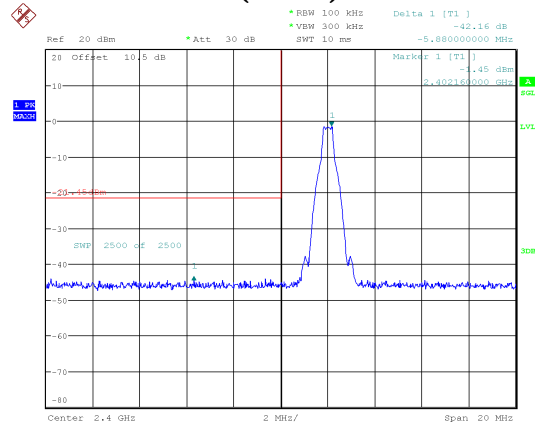
EUT operation mode: Transmitting & Hopping

Test Result: Compliant.

Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
GFSK	Low	2402	42.16	20
	High	2480	43.02	
$\pi/4$ DQPSK	Low	2402	39.59	
	High	2480	40.22	
8DPSK	Low	2402	39.56	
	High	2480	40.64	
GFSK (Hopping)	Low	2402	44.19	
	High	2480	43.60	
$\pi/4$ DQPSK (Hopping)	Low	2402	43.25	
	High	2480	42.76	
8DPSK (Hopping)	Low	2402	42.79	
	High	2480	36.68	

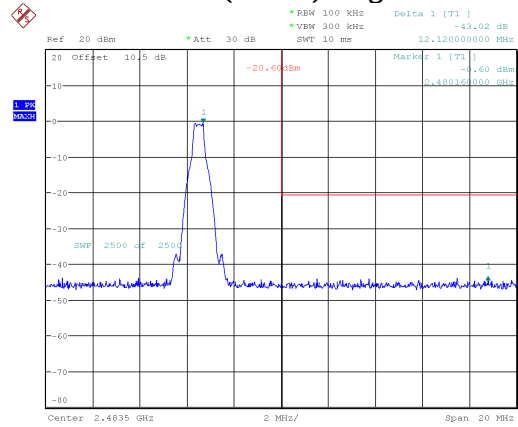
Band Edge

BDR (GFSK): Left Side

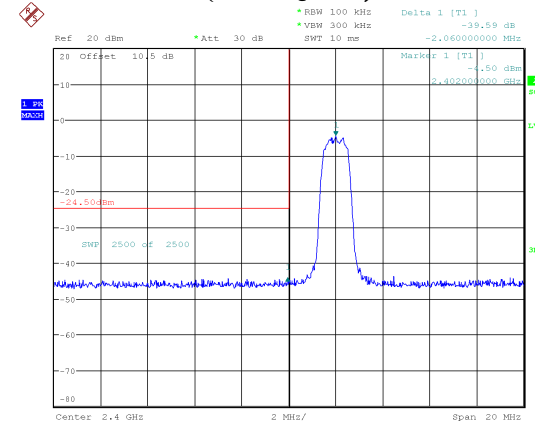


ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 14:52:50

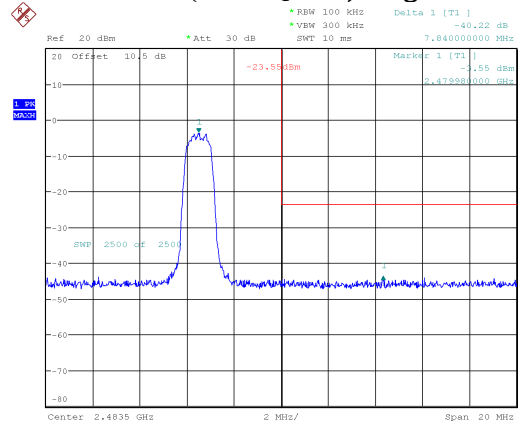
BDR (GFSK): Right Side



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:16:35

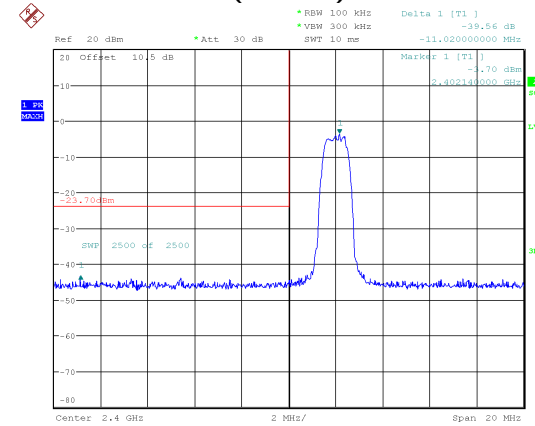
EDR ($\pi/4$ -DQPSK): Left Side

ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:35:26

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

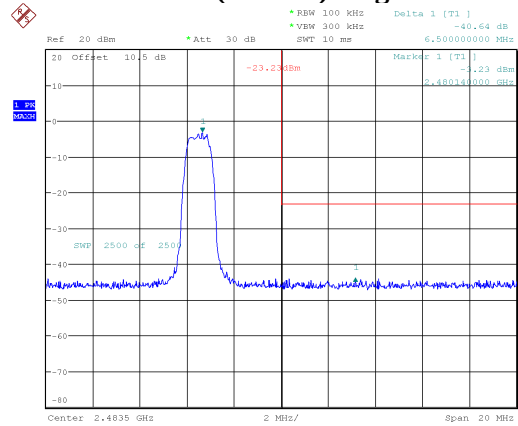
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:55:55

EDR (8DPSK): Left Side



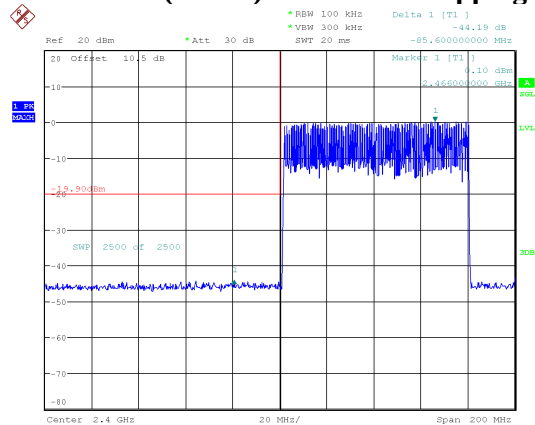
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:11:57

EDR (8DPSK): Right Side



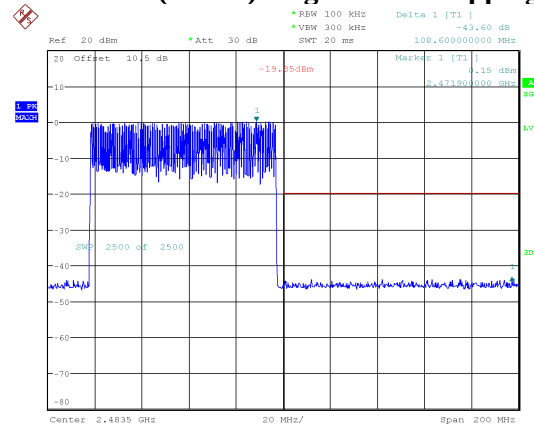
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:34:42

BDR (GFSK): Left Side - Hopping



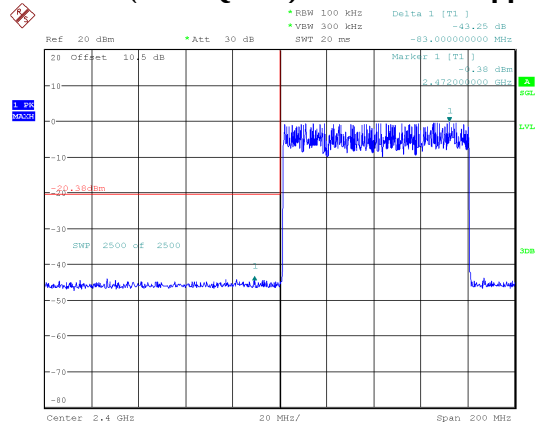
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:00:19

BDR (GFSK): Right Side - Hopping



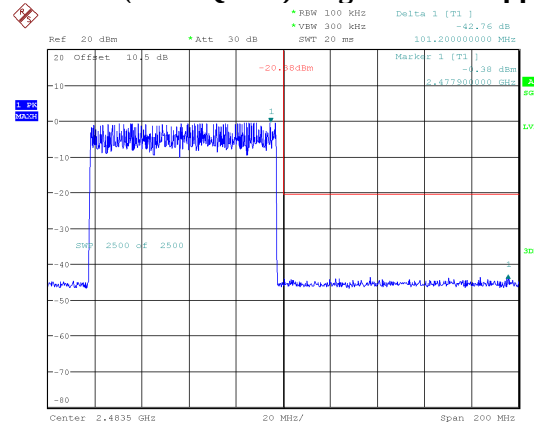
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:02:29

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



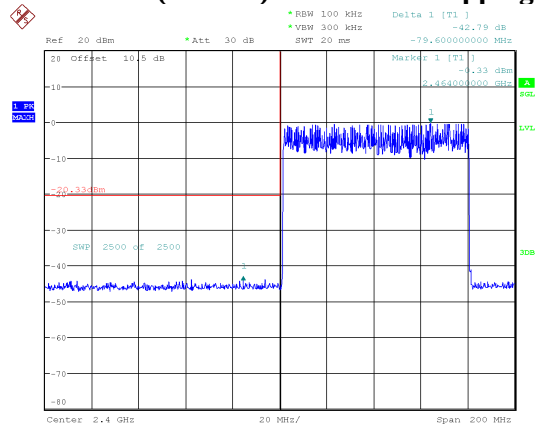
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 17:05:10

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



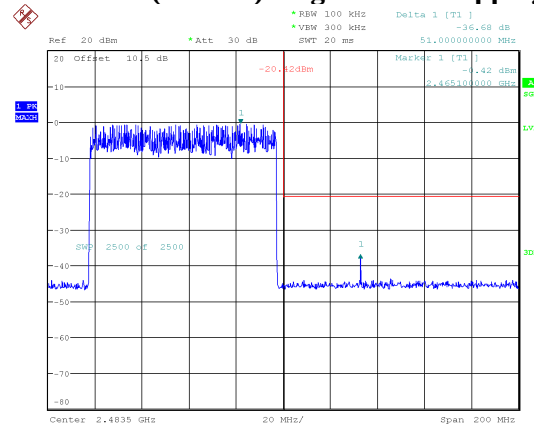
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:52:21

EDR (8DPSK): Left Side - Hopping



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:55:14

EDR (8DPSK): Right Side - Hopping



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:57:20

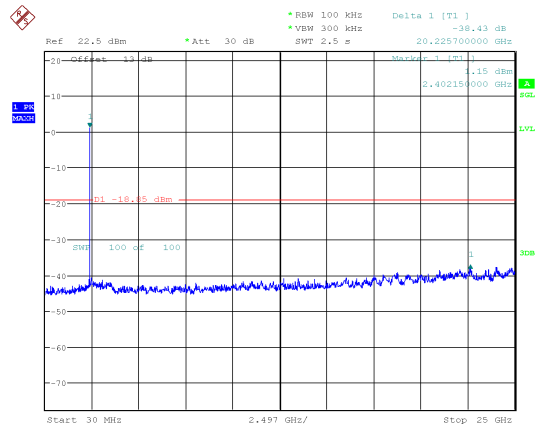
CONDUCTED SPURIOUS EMISSION**Environmental Conditions & Test Information**

Test Date:	2026-03-28
Temperature:	21 °C
Relative Humidity:	52 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Mode	Channel	Result (dBc)	Limit (dBc)
GFSK	Low	38.43	20.00
	Middle	39.27	20.00
	High	39.47	20.00
$\pi/4$ DQPSK	Low	35.83	20.00
	Middle	36.44	20.00
	High	33.09	20.00
8DPSK	Low	35.56	20.00
	Middle	35.42	20.00
	High	32.94	20.00

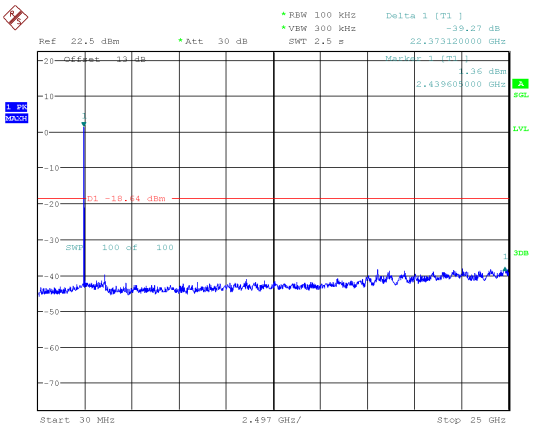
Note: the maximum path attenuation of 30MHz~25GHz was added into the offset

GFSK_Low



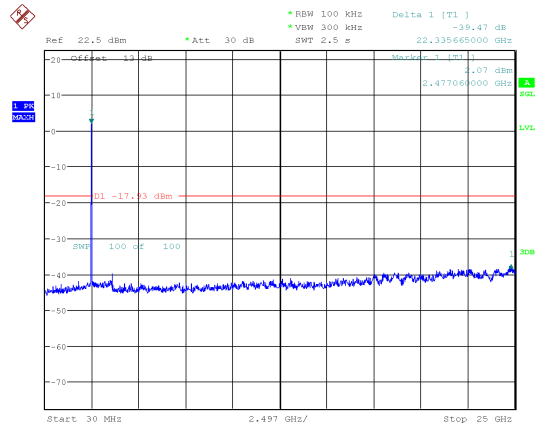
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:00:36

GFSK_Middle



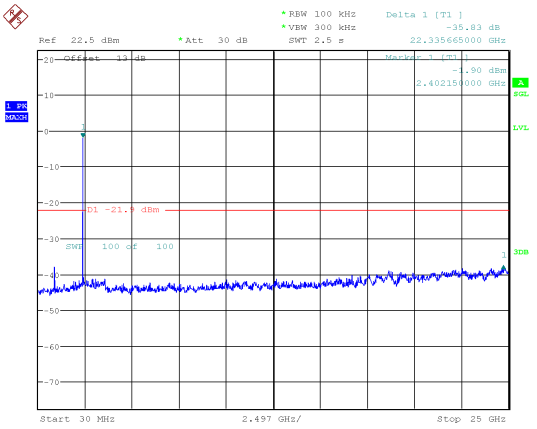
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:10:35

GFSK_High



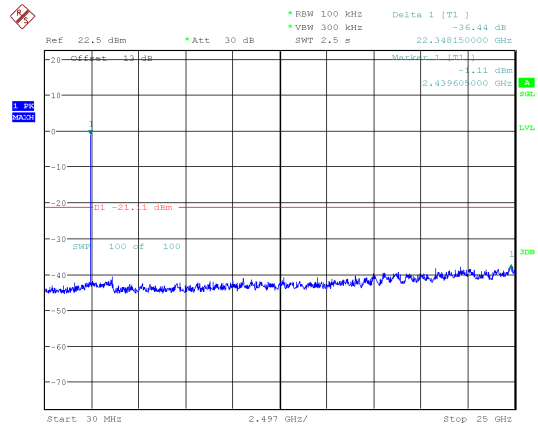
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:26:09

$\pi/4$ DQPSK_Low



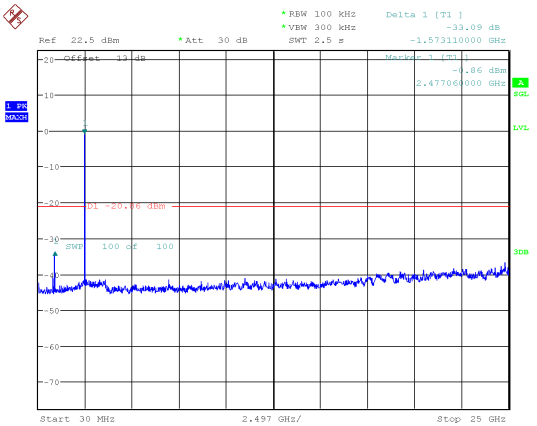
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:42:36

$\pi/4$ DQPSK_Middle



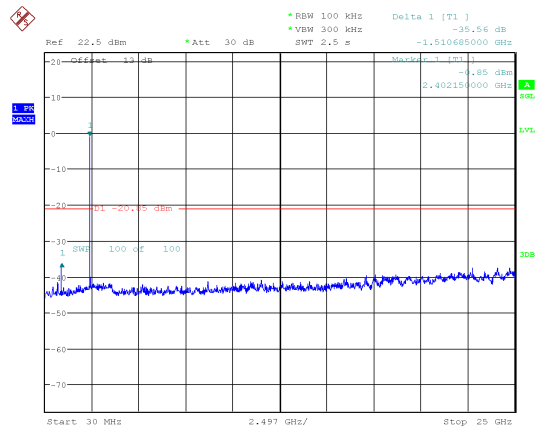
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 15:50:49

$\pi/4$ DQPSK_High



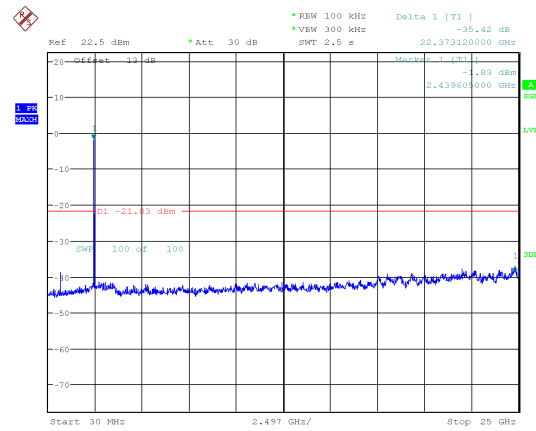
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:04:00

8DPSK_Low



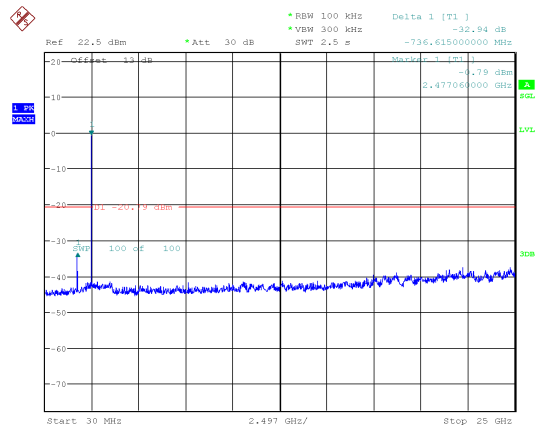
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:20:36

8DPSK_Middle



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:29:06

8DPSK_High



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 28.MAR.2026 16:39:54

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C - TEST SETUP PHOTOGRAPHS.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.
6. This report may contain data that is not covered by the accreditation scope and shall be marked with ▲.

******* END OF REPORT *******