

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 Quadruiped Robot
Report Number: RBJ260304001-00C	
Report Date: 2026-05-12	
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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. This report contains data that are not covered by the NVLAP accreditation.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RBJ260304001-00C	R1V1	2026-05-12	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
RF Function:	2.4G SRD
Operating Band/Frequency:	2411-2466 MHz
Maximum Output Power:	19.71 dBm
Channel Number:	6
Channel Separation:	11 MHz
Modulation Type	OFDM
Antenna Type:	External Antenna
★Maximum Antenna Gain:	Chain 0: 3.6 dBi; Chain 1: 3.3 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 provided by the applicant.

All measurement and tested data in this report was gathered from production sample serial number: RBJ260304001-1 (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2026-03-04.)

Objective

This 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 Communications Commission rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and 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 FCC KDB 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9 dB
RF Output Power with Power meter		0.5 dB
Radiated emissions	9 kHz~150 kHz	3.8 dB
	150 kHz~30 MHz	3.4 dB
	30MHz~1GHz	6.11 dB
	1GHz~6GHz	4.45 dB
	6GHz~18GHz	5.23 dB
	18GHz~40GHz	5.65 dB
Occupied Bandwidth		0.5 kHz
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	2411	3	2444
1	2422	4	2455
2	2433	5	2466

EUT was tested with channel 0, 3 and 5.

EUT Exercise Software

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

RF Test Tool: Artosyn8030PCT.exe

Bandwidth	Frequency(MHz)	*Power Level Setting	
		Chain 0	Chain 1
10 M	2411	15	15
	2444	15	15
	2466	15	15
20 M	2411	10	10
	2444	10	10
	2466	10	10

Note:

1. The power level was declared by the applicant.
2. This EUT only supports MIMO mode.

Special Accessories

No special accessory.

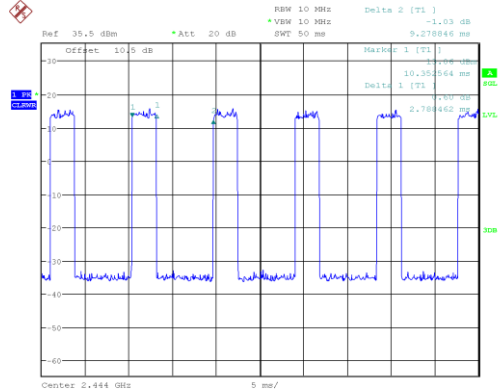
Equipment Modifications

No modification was made to the EUT tested.

Environmental Conditions & Test Information

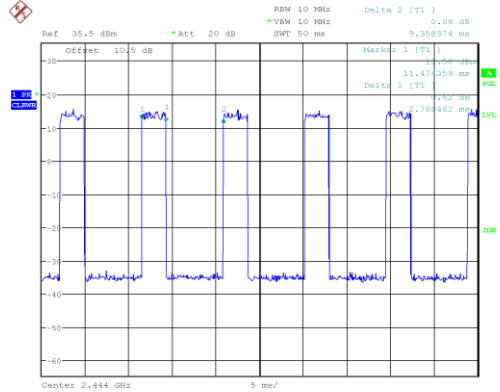
Test Date:	2026-04-03
Temperature:	21.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.5kPa
Test Engineer:	Neil Zhou

10M
Duty Cycle:
Chain 0



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 13:29:46

Chain 1

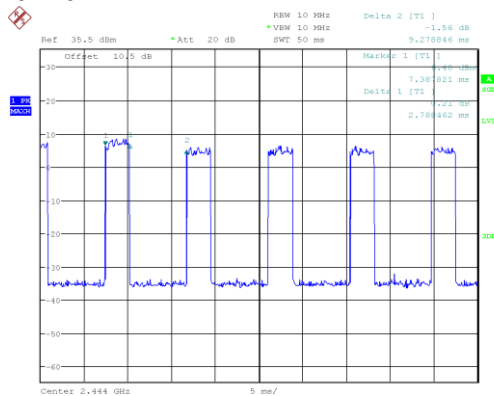


ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 13:31:09

Antenna	Channel	Duty Cycle (%)	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle Factor(dB)
Chain 0	Middle	30.05	2.788	9.279	5.22
Chain 1	Middle	29.79	2.788	9.359	5.26

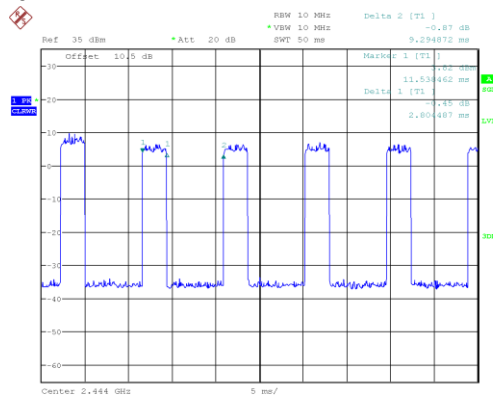
Note: Offset(10.5dB) = Attenuator(10dB)+Cable loss(0.5dB)

20M Duty Cycle: Chain 0



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 15:19:01

Chain 1



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 16:00:32

Antenna	Channel	Duty Cycle (%)	T _{on} (ms)	Ton+off(ms)	Duty Cycle Factor(dB)
Chain 0	Middle	30.05	2.788	9.279	5.22
Chain 1	Middle	30.17	2.804	9.295	5.20

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

Support Equipment List and Details

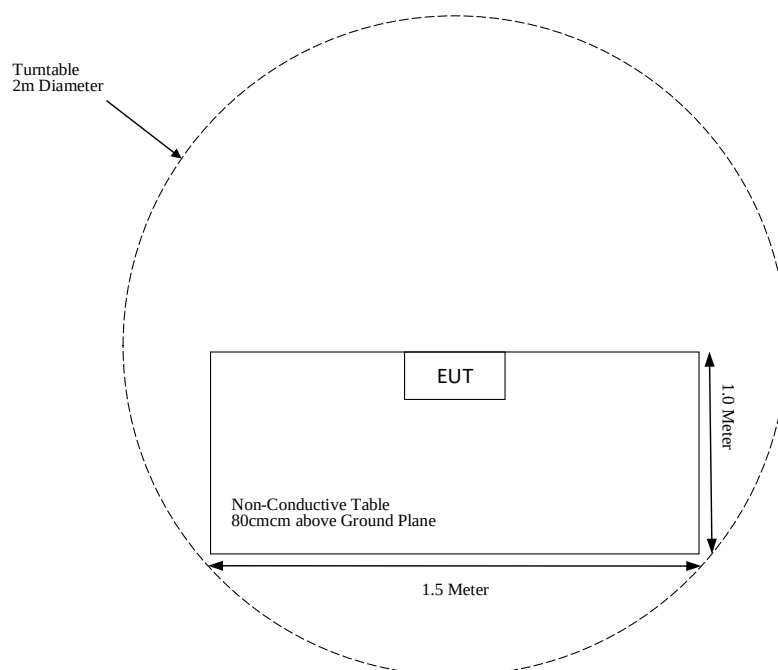
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

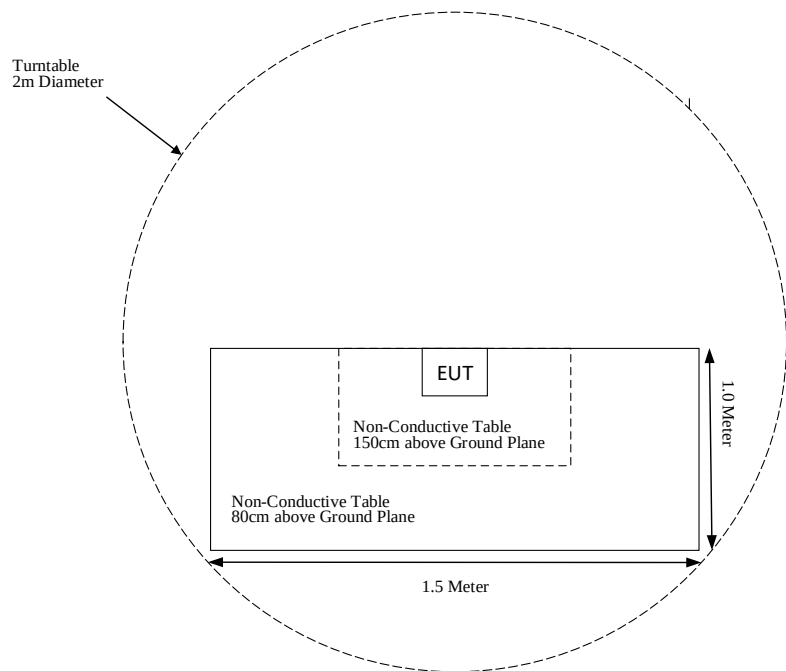
Cable Description	Length (m)	From Port	To Port
/	/	/	/

Block Diagram of Test Setup

For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



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	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
BACL	Active Loop Antenna	1313-1A	4041511	2025-08-10	2028-08-09
Narda	6 dB Attenuator	771-6	10690812-2-1	2024-10-29	2027-10-28
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
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2026-04-08	2027-04-07
Narda	Attenuator	10dB	010	2026-03-16	2027-03-15
SELECTOR	Amplifier	EM18G40G	60726	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	Spectrum Analyzer	FSU26	200103	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
Anritsu	Power Sensor	MA22418A	12621	2026-03-13	2027-03-12

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).

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §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)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	Band Edge	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant

Note: The EUT is powered by battery.

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/cm²)	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. WiFi, SRD and Classic BT can transmit simultaneously.

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

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.

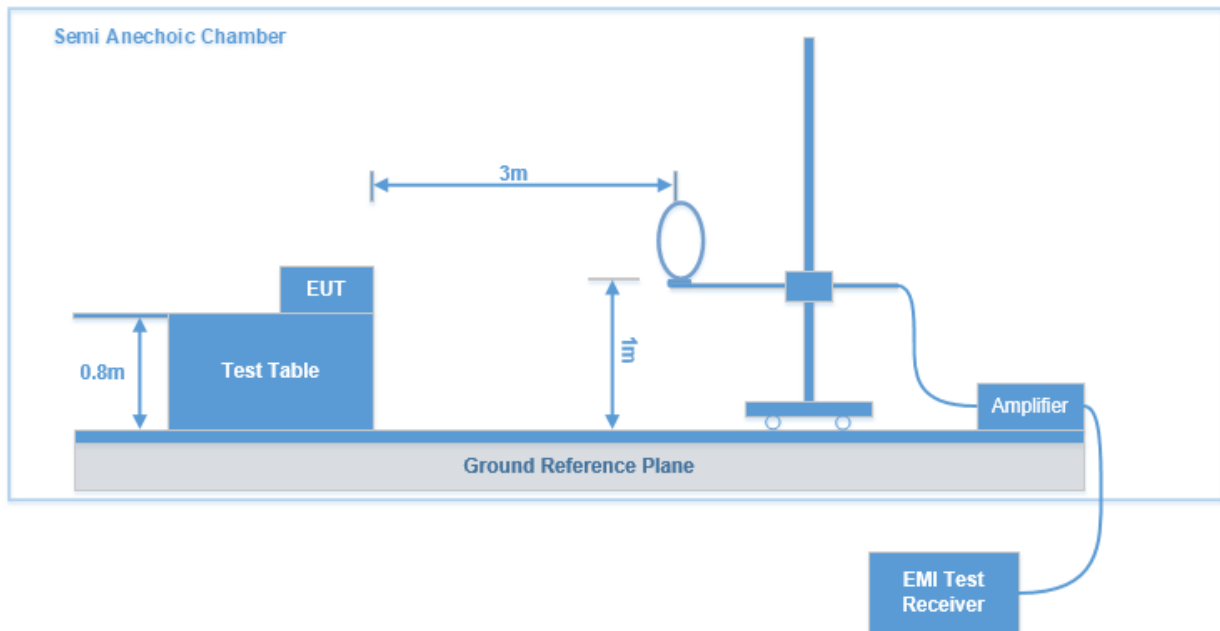
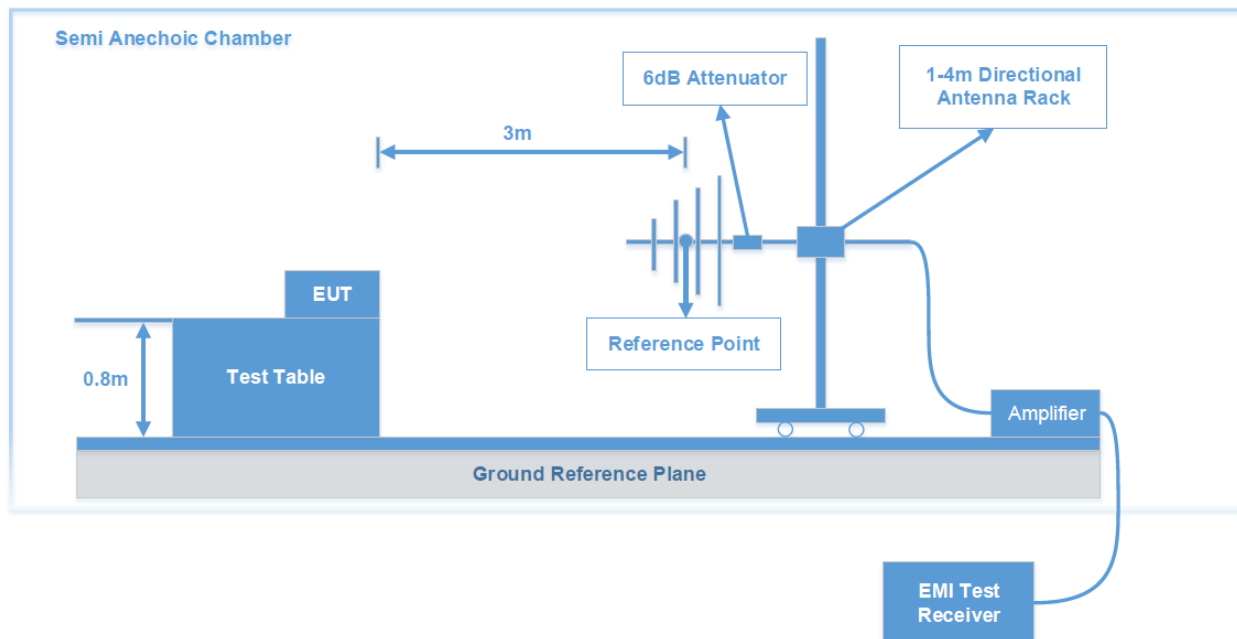
Antenna Connector Construction

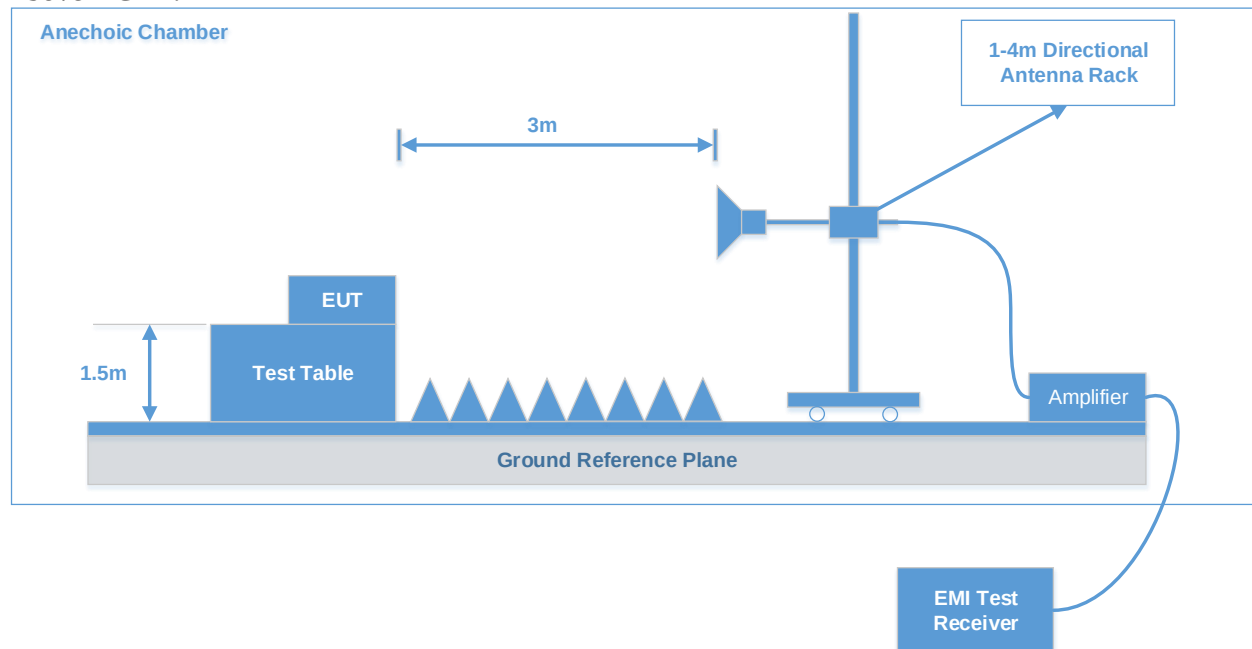
This EUT has two external antenna, which are permanently attached to the EUT, antenna gain is 3.6 dBi for chain 0; 3.3 dBi for chain 1, fulfill the requirement of this section, please refer to the EUT photos

Result: Compliant.

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

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

Above 1 GHz:

The radiated emission tests were performed in the 3 meters test site, 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

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) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

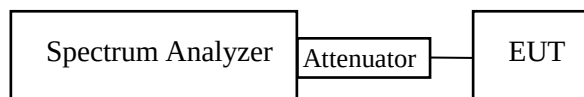
Test Procedure

According to ANSI C63.10-2020 sub-clause 11.8.1

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.

- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

The 99% emission bandwidth is also set as above.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

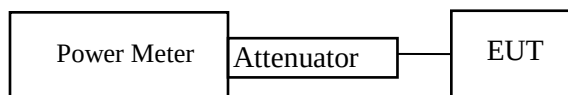
Test Procedure

According to ANSI C63.10-2020 sub-clause 11.9.1.2

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

11.9.2.3.2 Method AVGPM-G

Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.



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

Test Data: See Appendix

FCC §15.247(d) –BAND EDGE & CONDUCTED SPURIOUS EMISSION

BAND EDGES

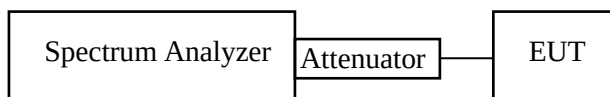
Applicable Standard

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 Section 11.11

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 its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 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: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

CONDUCTED SPURIOUS EMISSION

Applicable Standard

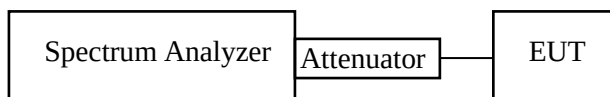
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

According to ANSIC63.10-2020 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



Note: the offset=Attenuator (10dB) + Cable loss (3dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

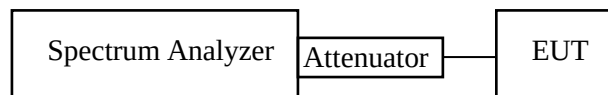
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to ANSI C63.10-2020 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

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.

APPENDIX - TEST DATA

SPURIOUS EMISSIONS

Environmental Conditions & Test Information

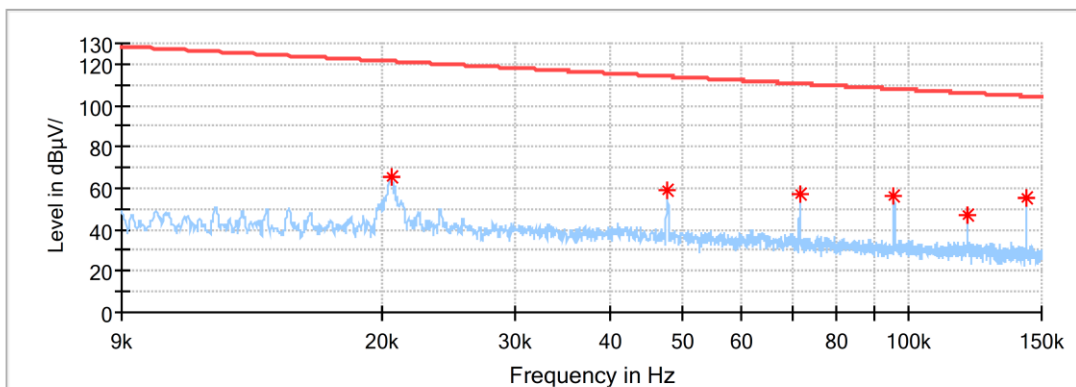
Test Item:	SPURIOUS EMISSIONS			
	9kHz – 30MHz	30 MHz - 1 GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2026-04-14	2026-03-09	2026-03-26	2026-04-03
Temperature:	19.4 °C	19.5 °C	18.0 °C	21.6 °C
Relative Humidity:	62 %	54 %	49 %	53 %
ATM Pressure:	101.4 kPa	102.5 kPa	101.8 kPa	102.5kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

Test Result: Compliant.

EUT operation mode: Transmitting

9 kHz-150 kHz**Transmitting in maximum output power 10M low channel (Chain 0 + Chain 1)****Parallel(worst case)****Low Channel: 2411 MHz****Common Information**

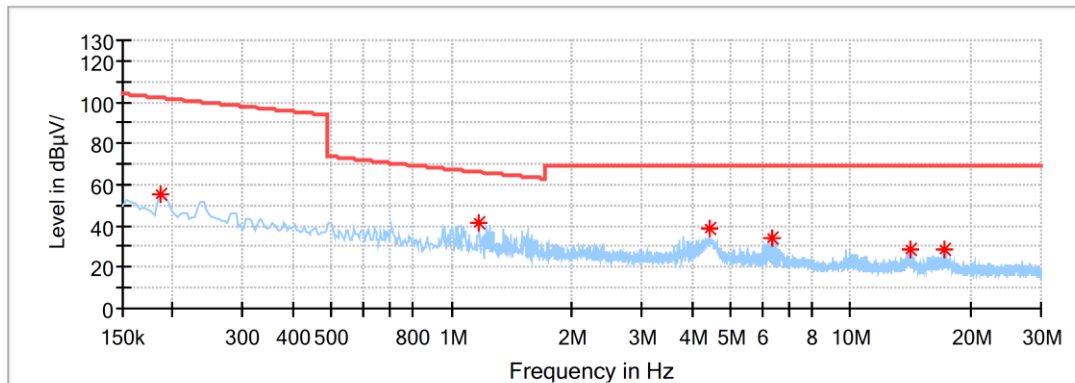
Project No:	RBJ260304001
EUT Model:	ZYCXD125M
Test Mode:	Transmitting in SRD mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, 1313-1A, 310N
Receiver Setting:	RBW: 200 Hz, VBW: 1 kHz, Sweep Time: Auto
Temperature:	19.4°C
Humidity:	62%
Barometric Pressure:	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)
0.020527	65.64	121.35	55.71	Parallel	-0.1
0.047757	59.37	114.02	54.65	Parallel	-2.9
0.071639	57.17	110.50	53.33	Parallel	-5.8
0.095521	56.55	108.00	51.45	Parallel	-8.1
0.119403	46.71	106.06	59.35	Parallel	-9.3
0.143285	55.47	104.48	49.00	Parallel	-10.3

150 kHz – 30MHz**Transmitting in maximum output power 10M low channel (Chain 0 + Chain 1)****Parallel(worst case)****Low Channel: 2411 MHz****Common Information**

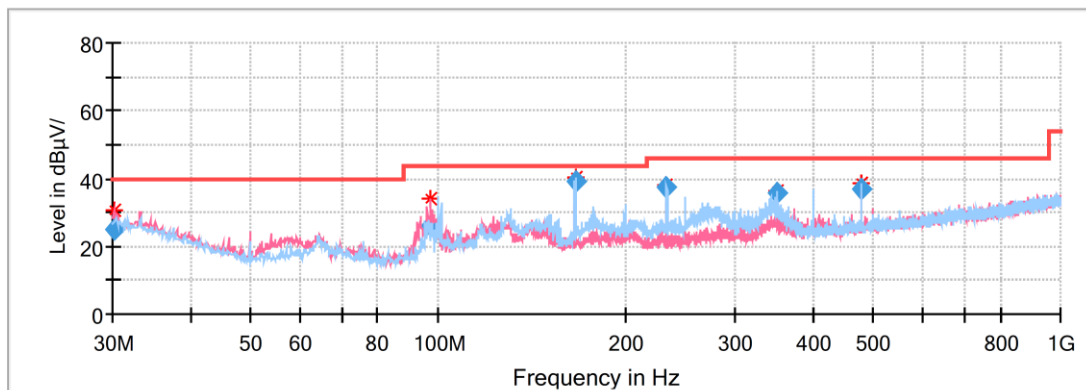
Project No:	RBJ260304001
EUT Model:	ZYCXD125M
Test Mode:	Transmitting in SRD mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, 1313-1A, 310N
Receiver Setting:	RBW:9 kHz, VBW:30 kHz, Sweep Time: Auto
Temperature:	19.4℃
Humidity:	62%
Barometric Pressure:	101.4kPa
Test Engineer:	Scar 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)
0.187312	55.51	102.07	46.56	Parallel	-12.2
1.172362	41.64	66.04	24.41	Parallel	-27.7
4.433475	38.69	69.54	30.85	Parallel	-31.3
6.332681	34.00	69.54	35.54	Parallel	-31.6
14.186962	28.13	69.54	41.41	Parallel	-32.2
17.093606	28.89	69.54	40.65	Parallel	-32.6

30 MHz - 1 GHz:**Transmitting in maximum output power 10M low channel (Chain 0 + Chain 1)****Low Channel: 2411 MHz****Common Information**

Project No: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in SRD mode low 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

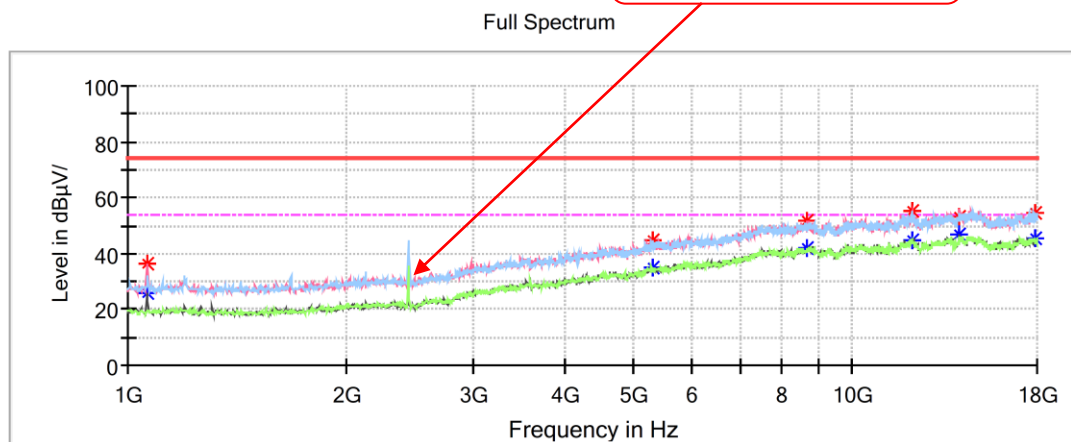
**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	25.19	40.00	14.81	V	-5.1
97.293750	26.23	43.50	17.27	V	-14.9
166.527500	39.13	43.50	4.37	H	-12.4
233.215000	37.61	46.00	8.39	H	-12.7
349.978750	35.69	46.00	10.31	H	-9.2
480.080000	37.16	46.00	8.84	H	-5.9

1 GHz-18 GHz:**10M****Chain 0 + Chain 1****Low Channel: 2411 MHz****Common Information**

Project No.:	RBJ260304001
EUT Model:	ZYCXD125M
Test Mode:	Transmitting in 2.4G SRD 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:	18.0°C
Humidity:	49%
Atmospheric Pressure:	101.8 kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/3/26

Fundamental Test with
Band Reject Filter

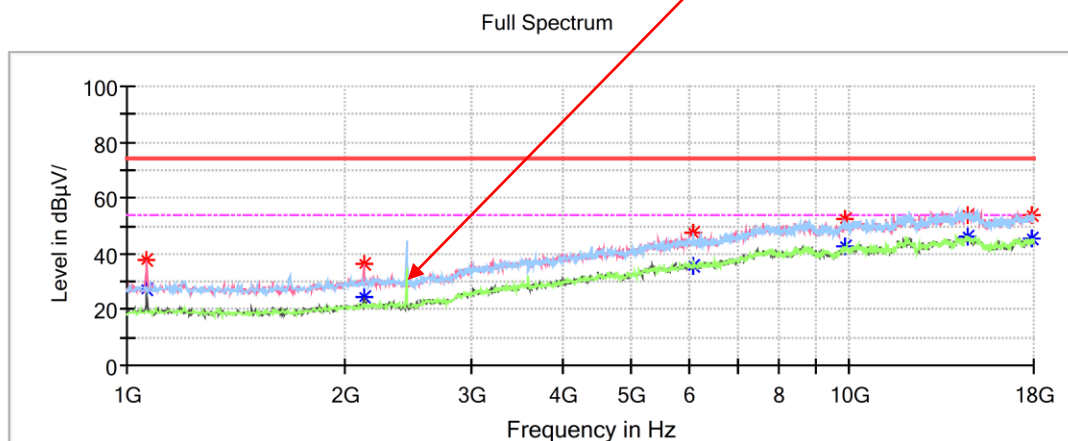
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	26.06	54.00	27.94	V	-15.0
1061.200000	36.33	---	74.00	37.67	V	-15.0
5294.200000	45.05	---	74.00	28.95	V	-2.2
5294.200000	---	34.99	54.00	19.01	V	-2.2
8680.600000	51.89	---	74.00	22.11	V	4.7
8680.600000	---	42.16	54.00	11.84	V	4.7
12067.000000	---	44.70	54.00	9.30	H	9.0
12067.000000	54.90	---	74.00	19.10	H	9.0
14015.200000	---	46.55	54.00	7.45	V	11.1
14015.200000	53.46	---	74.00	20.54	V	11.1
17843.600000	---	45.50	54.00	8.50	H	11.3
17843.600000	54.30	---	74.00	19.70	H	11.3

Middle Channel: 2444 MHz**Common Information**

Project No.: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in 2.4G SRD 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: 18.0°C
Humidity: 49%
Atmospheric Pressure: 101.8 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/26

Fundamental Test with
Band Reject Filter

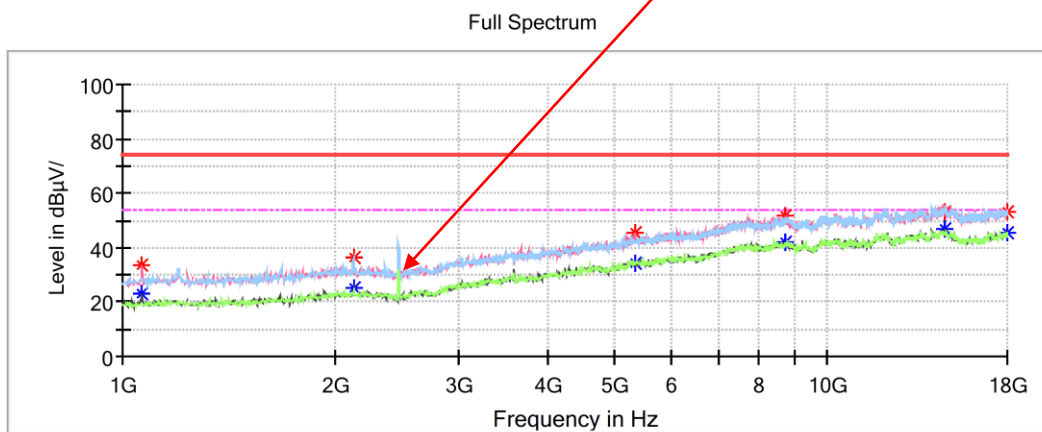
**Critical_Freqs**

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	37.91	---	74.00	36.09	V	-15.0
1064.600000	---	27.56	54.00	26.44	V	-15.0
2125.400000	36.69	---	74.00	37.31	V	-9.9
2125.400000	---	24.37	54.00	29.63	V	-9.9
6089.800000	---	35.61	54.00	18.39	H	-0.7
6089.800000	47.27	---	74.00	26.73	H	-0.7
9840.000000	---	42.54	54.00	11.46	H	5.9
9840.000000	52.59	---	74.00	21.41	H	5.9
14542.200000	53.94	---	74.00	20.06	H	11.8
14542.200000	---	46.49	54.00	7.51	H	11.8
17840.200000	53.55	---	74.00	20.45	V	11.3
17840.200000	---	45.70	54.00	8.30	V	11.3

High Channel: 2466 MHz**Common Information**

Project No.: RBJ260304001
 EUT Model: ZYCXD125M
 Test Mode: Transmitting in 2.4G SRD 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: 18.0℃
 Humidity: 49%
 Atmospheric Pressure: 101.8 kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/3/26

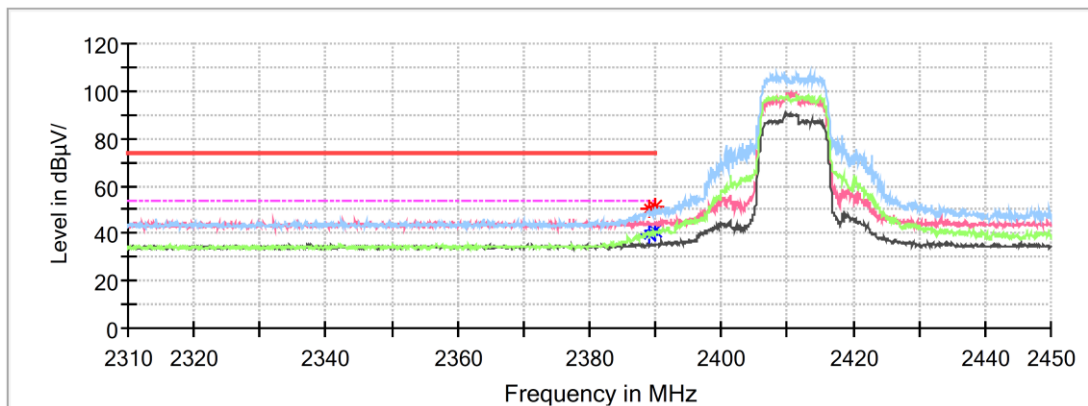
Fundamental Test with
Band Reject Filter

**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	---	22.96	54.00	31.04	V	-15.0
1064.600000	33.88	---	74.00	40.12	V	-15.0
2125.400000	---	24.99	54.00	29.01	H	-9.9
2125.400000	36.16	---	74.00	37.84	H	-9.9
5341.800000	---	33.98	54.00	20.02	H	-2.1
5341.800000	45.26	---	74.00	28.74	H	-2.1
8704.400000	---	41.62	54.00	12.38	V	4.7
8704.400000	51.87	---	74.00	22.13	V	4.7
14702.000000	53.37	---	74.00	20.63	V	11.3
14702.000000	---	46.90	54.00	7.10	V	11.3
17989.800000	52.86	---	74.00	21.14	V	11.7
17989.800000	---	45.77	54.00	8.23	V	11.7

Restricted Bands Emission:**Left Side****Common Information**

Project No.: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in SRD 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: 18.0°C
Humidity: 49%
Atmospheric Pressure: 101.8 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/26

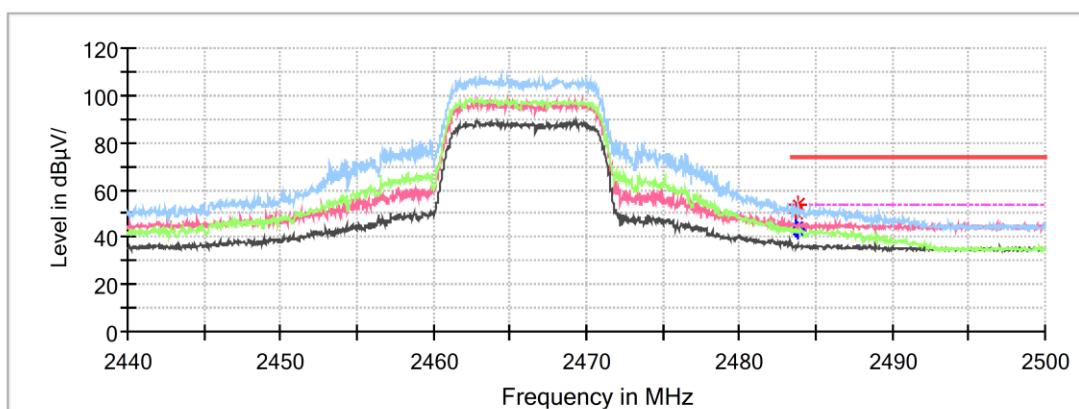
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.128000	---	39.84	54.00	14.16	H	0.4
2389.128000	50.75	---	74.00	23.25	H	0.4
2389.912000	---	41.45	54.00	12.55	H	0.4
2389.912000	51.05	---	74.00	22.95	H	0.4

Right Side**Common Information**

Project No.: RBJ260304001
 EUT Model: ZYCXD125M
 Test Mode: Transmitting in SRD 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: 18.0°C
 Humidity: 49%
 Atmospheric Pressure: 101.8 kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/3/26

Full Spectrum

**Critical_Freqs**

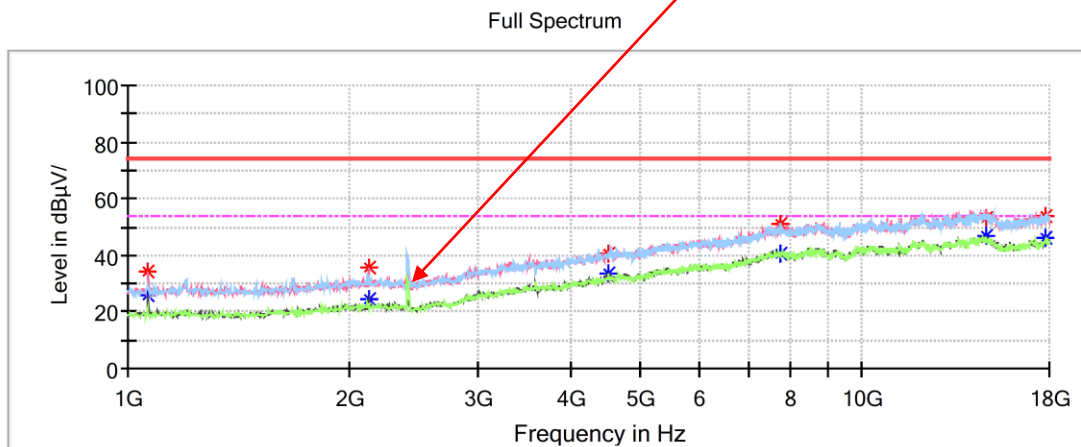
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.704000	50.31	---	74.00	23.69	H	0.5
2483.704000	---	43.98	54.00	10.02	H	0.5
2483.896000	---	42.63	54.00	11.37	H	0.5
2483.896000	53.91	---	74.00	20.09	H	0.5

1 GHz-18 GHz:**20M****Chain 0 + Chain 1****Low Channel: 2411 MHz**

Common Information

Project No.:	RBJ260304001
EUT Model:	ZYCXD125M
Test Mode:	Transmitting in 2.4G SRD 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:	18.0℃
Humidity:	49%
Atmospheric Pressure:	101.8 kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/3/26

Fundamental Test with
Band Reject Filter



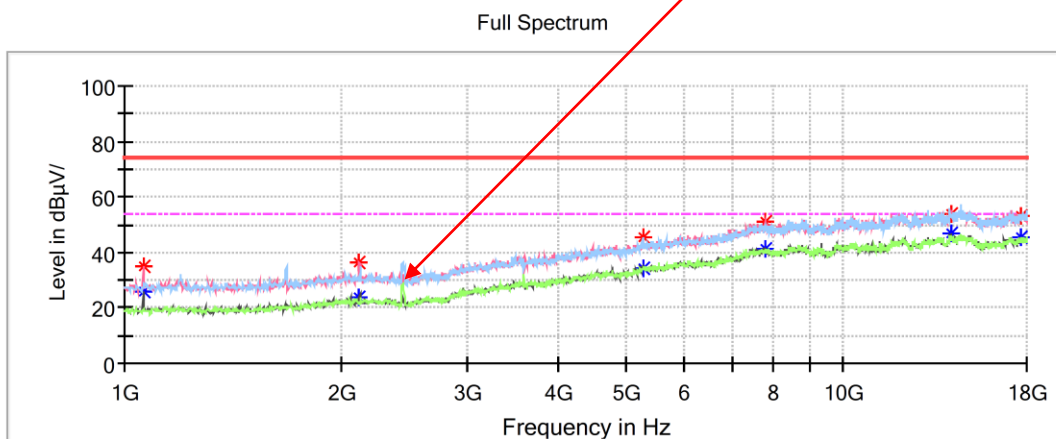
Critical Freqs

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	34.47	---	74.00	39.53	V	-15.0
1064.600000	---	25.92	54.00	28.08	V	-15.0
2125.400000	---	24.52	54.00	29.48	V	-9.9
2125.400000	35.59	---	74.00	38.41	V	-9.9
4512.200000	40.41	---	74.00	33.59	H	-4.2
4512.200000	---	33.51	54.00	20.49	H	-4.2
7766.000000	---	40.85	54.00	13.15	H	3.1
7766.000000	50.72	---	74.00	23.28	H	3.1
14793.800000	53.38	---	74.00	20.62	V	11.0
14793.800000	---	46.92	54.00	7.08	V	11.0
17779.000000	53.78	---	74.00	20.22	V	11.2
17779.000000	---	46.40	54.00	7.60	V	11.2

Middle Channel: 2444 MHz**Common Information**

Project No.:	RBJ260304001
EUT Model:	ZYCXD125M
Test Mode:	Transmitting in 2.4G SRD 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:	18.0°C
Humidity:	49%
Atmospheric Pressure:	101.8 kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/3/26

Fundamental Test with
Band Reject Filter

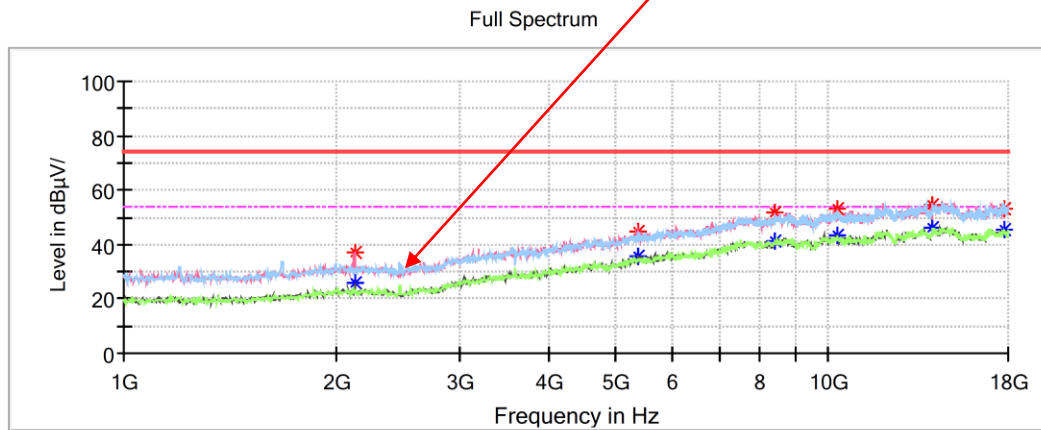
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	26.06	54.00	27.94	V	-15.0
1061.200000	35.08	---	74.00	38.92	V	-15.0
2122.000000	---	23.74	54.00	30.26	V	-9.9
2122.000000	36.64	---	74.00	37.36	V	-9.9
5284.000000	---	34.32	54.00	19.68	H	-2.2
5284.000000	45.31	---	74.00	28.69	H	-2.2
7769.400000	---	41.27	54.00	12.73	V	3.1
7769.400000	51.06	---	74.00	22.94	V	3.1
14171.600000	---	46.54	54.00	7.46	V	11.4
14171.600000	53.92	---	74.00	20.08	V	11.4
17673.600000	52.90	---	74.00	21.10	V	10.9
17673.600000	---	45.63	54.00	8.37	V	10.9

High Channel: 2466 MHz**Common Information**

Project No.:	RBJ260304001
EUT Model:	ZYCXD125M
Test Mode:	Transmitting in 2.4G SRD 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:	18.0℃
Humidity:	49%
Atmospheric Pressure:	101.8 kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/3/26

Fundamental Test with
Band Reject Filter

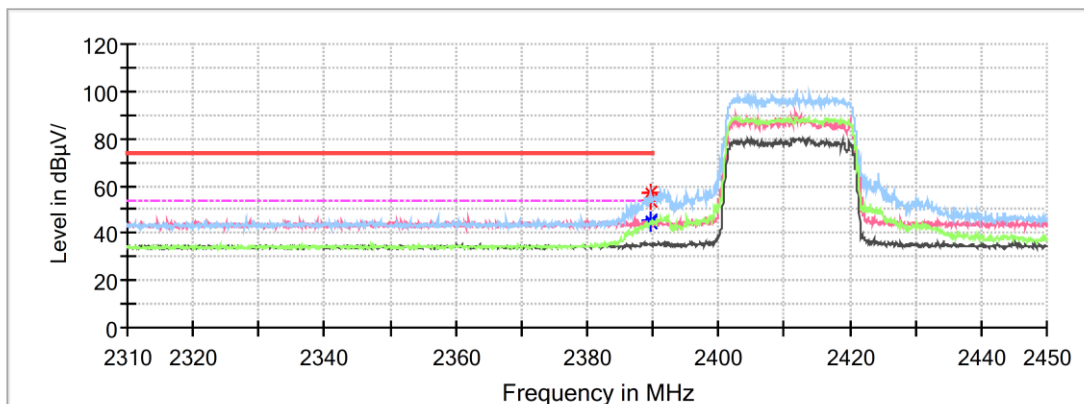
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2125.400000	---	25.93	54.00	28.07	V	-9.9
2125.400000	36.88	---	74.00	37.12	V	-9.9
5386.000000	---	35.71	54.00	18.29	V	-2.0
5386.000000	44.91	---	74.00	29.09	V	-2.0
8381.400000	52.06	---	74.00	21.94	H	4.4
8381.400000	---	41.01	54.00	12.99	H	4.4
10302.400000	---	43.04	54.00	10.96	H	6.6
10302.400000	52.82	---	74.00	21.18	H	6.6
14076.400000	---	46.35	54.00	7.65	H	11.2
14076.400000	54.40	---	74.00	19.60	H	11.2
17775.600000	---	45.33	54.00	8.67	V	11.2
17775.600000	52.89	---	74.00	21.11	V	11.2

Restricted Bands Emission:**Left Side****Common Information**

Project No.: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in SRD 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: 18.0℃
Humidity: 49%
Atmospheric Pressure: 101.8 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/26

Full Spectrum

**Critical_Freqs**

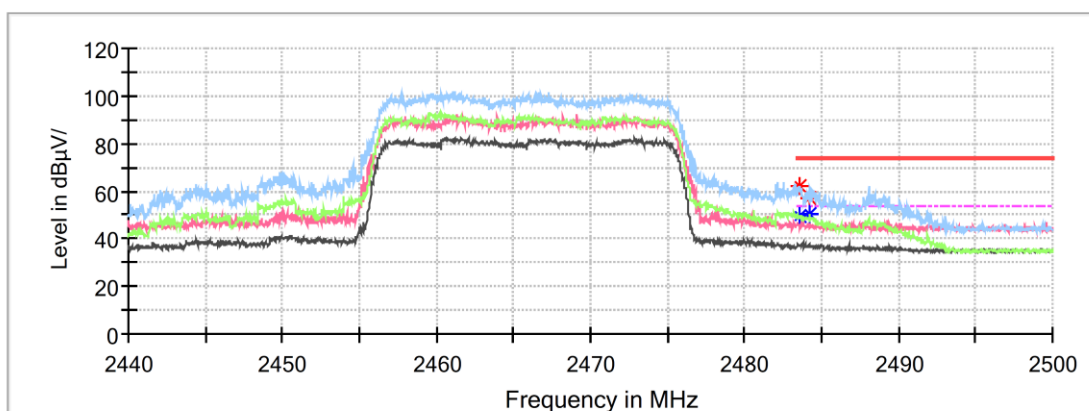
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.520000	53.66	---	74.00	20.34	H	0.4
2389.576000	---	45.04	54.00	8.96	H	0.4
2389.800000	---	44.28	54.00	9.72	H	0.4
2389.800000	56.94	---	74.00	17.06	H	0.4

Right Side

Common Information

Project No.: RBJ260304001
EUT Model: ZYCXD125M
Test Mode: Transmitting in SRD 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: 18.0°C
Humidity: 49%
Atmospheric Pressure: 101.8 kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/3/26

Full Spectrum



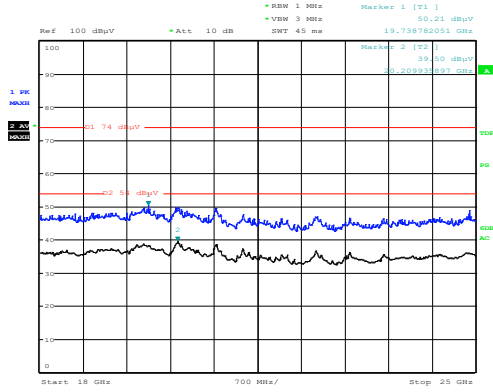
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.632000	---	49.92	54.00	4.08	H	0.5
2483.632000	62.30	---	74.00	11.70	H	0.5
2484.232000	---	49.96	54.00	4.04	H	0.5
2484.232000	57.02	---	74.00	16.98	H	0.5

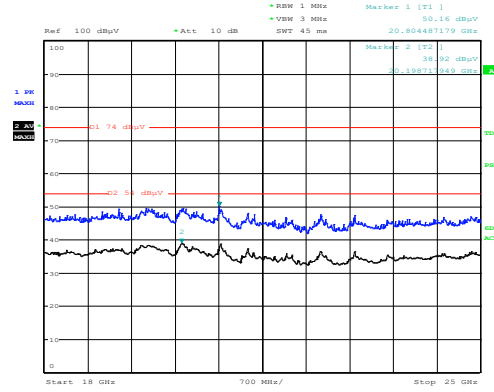
18 GHz - 25 GHz :

Transmitting in maximum output power 10M low channel (Chain 0 + Chain 1)

Horizontal



Vertical



Project No :RBJ260304001 Tester :Hugh Wu
Date: 3.APR.2026 15:54:27

Project No :RBJ260304001 Tester :Hugh Wu
Date: 3.APR.2026 16:29:07

Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.20	---	38.92	54	15.08	V	12.46
20.80	50.16	---	74	23.84	V	13.16
20.21	---	39.5	54	14.5	H	12.47
19.74	50.21	---	74	23.79	H	12.05

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

EMISSION BANDWIDTH**Environmental Conditions & Test Information**

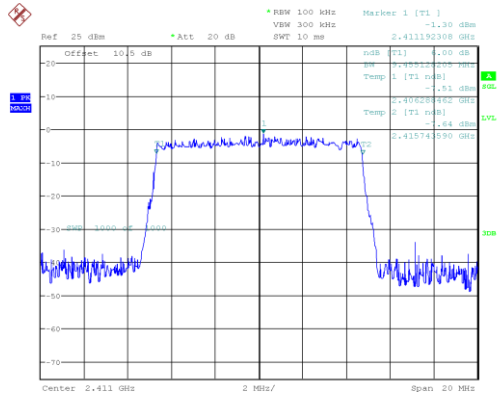
Test Date:	2026-04-03
Temperature:	21.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.5kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

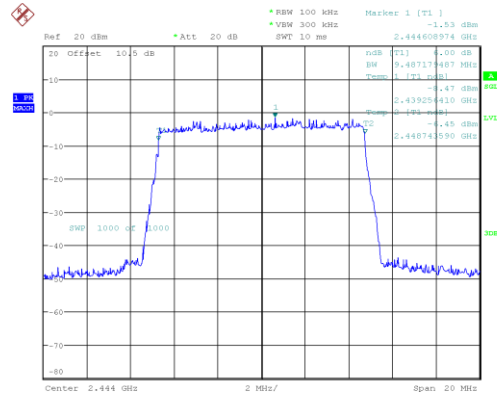
EUT operation mode: Transmitting

**10M
Chain 0**

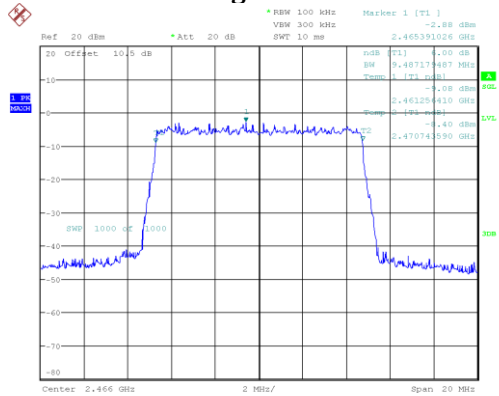
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
SRD	Low	2411	9.455	≥ 0.5
	Middle	2444	9.487	≥ 0.5
	High	2466	9.487	≥ 0.5

Low Channel

ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 10:01:46

Middle Channel

ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 10:24:41

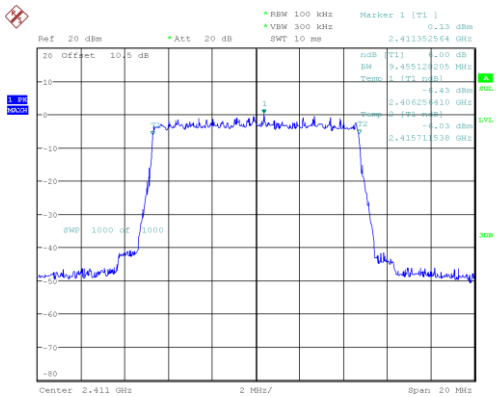
High Channel

ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 11:23:07

10M
Chain 1

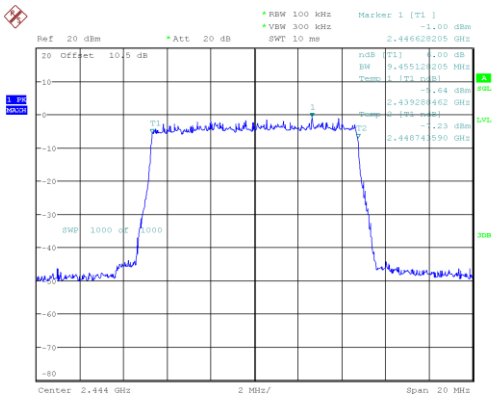
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
SRD	Low	2411	9.455	≥0.5
	Middle	2444	9.455	≥0.5
	High	2466	9.519	≥0.5

Low Channel



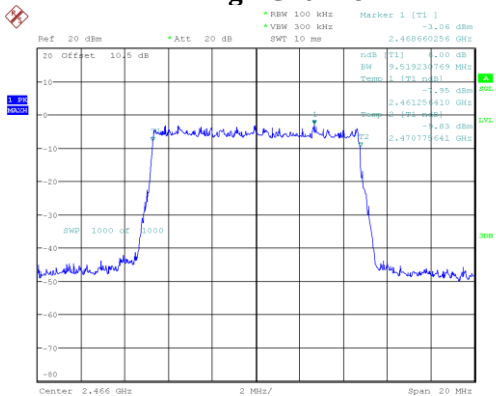
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 13:14:46

Middle Channel



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 13:17:15

High Channel

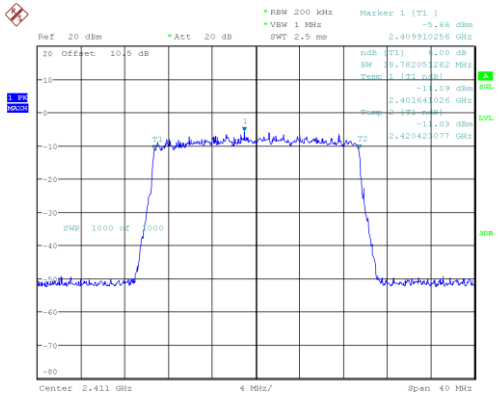


ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 11:49:51

20M
Chain 0

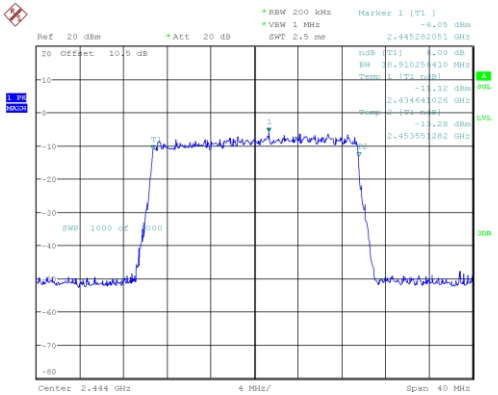
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
SRD	Low	2411	18.782	≥0.5
	Middle	2444	18.910	≥0.5
	High	2466	18.974	≥0.5

Low Channel



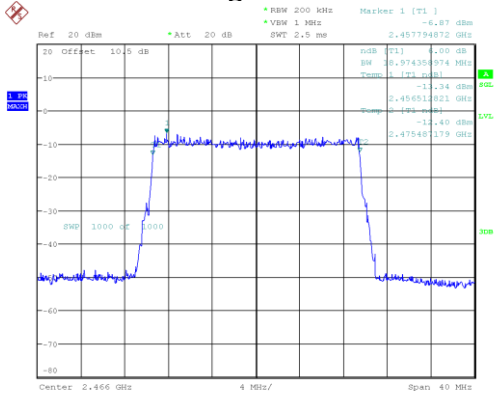
ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 17:21:51

Middle Channel



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 16:14:30

High Channel



ProjectNo.:RBJ260304001 Tester:Neil Zhou
Date: 3.APR.2026 16:24:19