

FCC PART 15.247

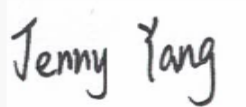
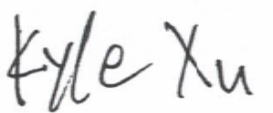
TEST REPORT

For

Hangzhou Key to the Future Technology Co., Ltd.

Room 102-2, Building 1, No. 7 Jianghui South Road, Changhe Subdistrict, Binjiang District,
Hangzhou City, Zhejiang Province, 310051, China

FCC ID: 2BTTG-S150MAX

Report Type: Original Report	Product Name: Smart Lock
Report Number: <u>RKSA260730001-00B</u>	
Report Date: <u>2026-09-18</u>	
Reviewed By: <u>Jenny Yang</u>	
Approved By: <u>Kyle Xu</u>	
Test Laboratory: Bay Area Compliance Laboratories Corp. (Kunshan) Building 2 & 6, No.248, Chenghu Road, Development Zone, Yushan, Kunshan, Suzhou, Jiangsu, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn	

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government. 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	RKSA260730001-00B	R1V1	2026-09-18	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Hangzhou Key to the Future Technology Co., Ltd.
Tested Model:	S150Max
Product Name:	Smart Lock
Power Supply:	DC 3.7V from battery or DC 5V from USB port
RF Function:	2.4G Wi-Fi, BLE
Operating Band/Frequency:	2.4G Wi-Fi: 2412-2462 MHz(802.11b/g/n20) BLE(1 Mbps): 2402-2480 MHz
Maximum Peak Output Power:	2.4G Wi-Fi: 802.11b: 19.568 dBm 802.11g: 20.507 dBm 802.11n20: 20.486 dBm BLE(1 Mbps): 7.77 dBm
Channel Number:	2.4G Wi-Fi: 11(802.11b/g/n20) BLE(1 Mbps): 40
Channel Separation:	2.4G Wi-Fi: 5 MHz BLE(1 Mbps): 2 MHz
Modulation Type:	2.4G Wi-Fi: DSSS, OFDM BLE(1 Mbps): GFSK
★Maximum Antenna Gain:	2.4G Wi-Fi: 0.73 dBi BLE: 2.4 dBi
Sample/EUT Status:	Good condition

All measurement and test data in this report was gathered from production sample serial number: RKSA260730001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2026-07-30.)

Objective

This report is prepared for *Hangzhou Key to the Future 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 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 Compliant Testing of Unlicensed Wireless Devices and FCC 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 Building 2 & 6, No.248, Chenghu Road, Development Zone, Yushan, Kunshan, Suzhou, Jiangsu, 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

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

Channel List for BLE mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	/
13	2428	27	2456	/	/

EUT was tested with channel 0, 19 and 39.

Channel List for Wi-Fi Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode EUT was tested with Channel 1, 6 and 11.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Wi-Fi test software: sscom5.13.1.exe

BLE test software: RF Test.exe

Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data Rate	Channel	★Power Level
802.11b	1 Mbps	Low	15
		Middle	15
		High	15
802.11g	6 Mbps	Low	5
		Middle	5
		High	5
802.11n-HT20	MCS0	Low	10
		Middle	10
		High	10
BLE(1 Mbps)	1Mbps	Low	9
		Middle	9
		High	9

Note: The power level was declared by the applicant.

Environmental Conditions & Test Information

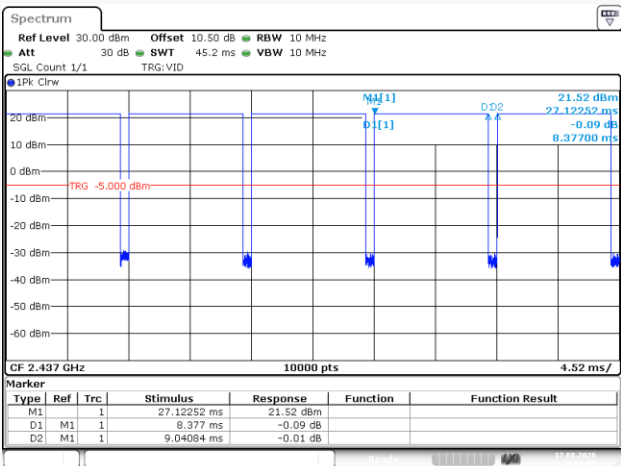
Test Date:	2026-08-17 to 2026-09-14
Temperature:	24-25 °C
Relative Humidity:	47-50 %
ATM Pressure:	101.8-102.4 kPa
Test Engineer:	Neil Zhou

Mode	Ton(ms)	Ton+Toff(ms)	Duty Cycle (%)	$10\log(1/x)$ (dB)
802.11b	8.377	9.041	92.66	0.33
802.11g	1.381	2.032	67.96	1.68
802.11n-HT20	5.069	5.727	88.51	0.53
BLE(1Mbps)	100	100	100	/

Note:

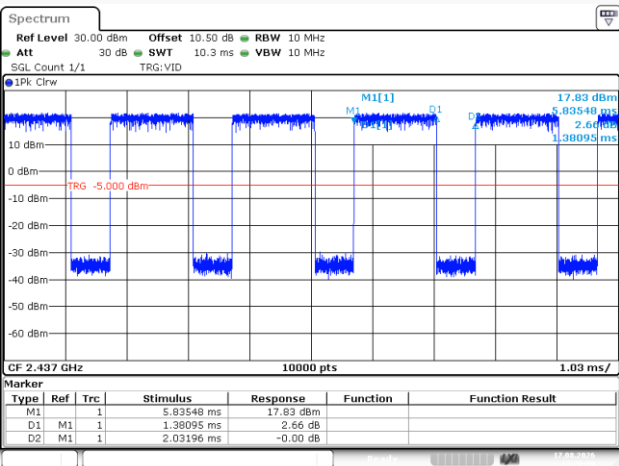
1. “x” means the Duty Cycle.
2. Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Duty Cycle:
802.11b Mode Middle Channel



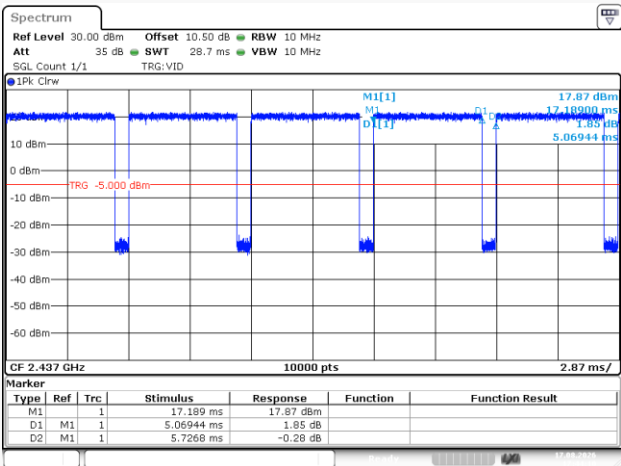
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 16:56:54

802.11g Mode Middle Channel



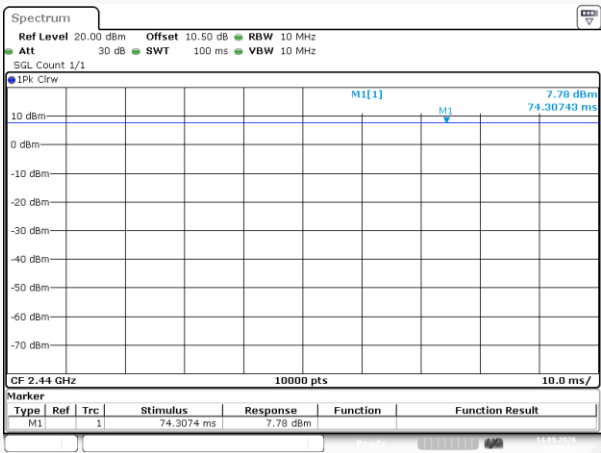
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 17:20:39

802.11n-HT20 Mode Middle Channel



ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 17:44:10

BLE(1Mbps) Mode Middle Channel



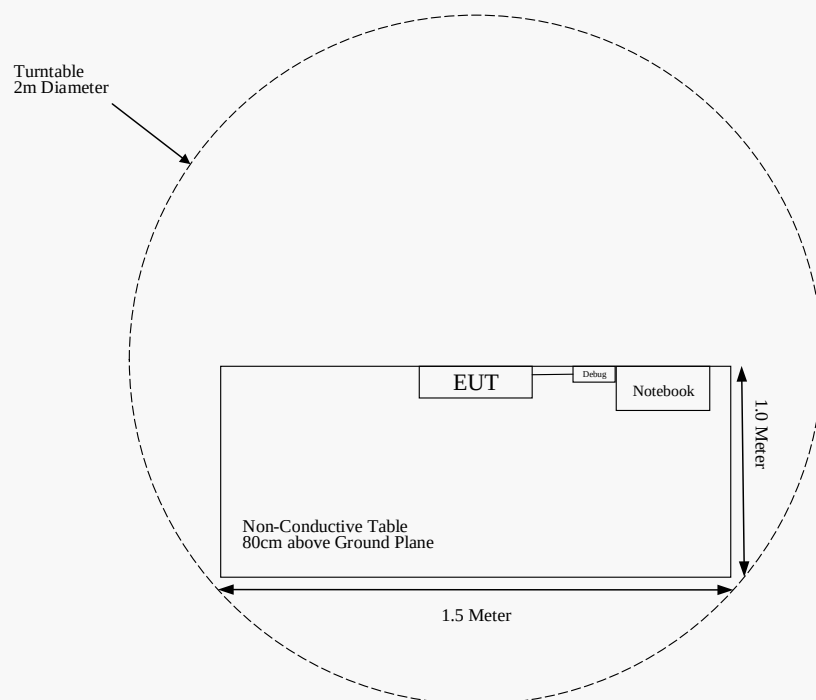
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 14.SEP.2026 14:08:01

Support Equipment List and Details

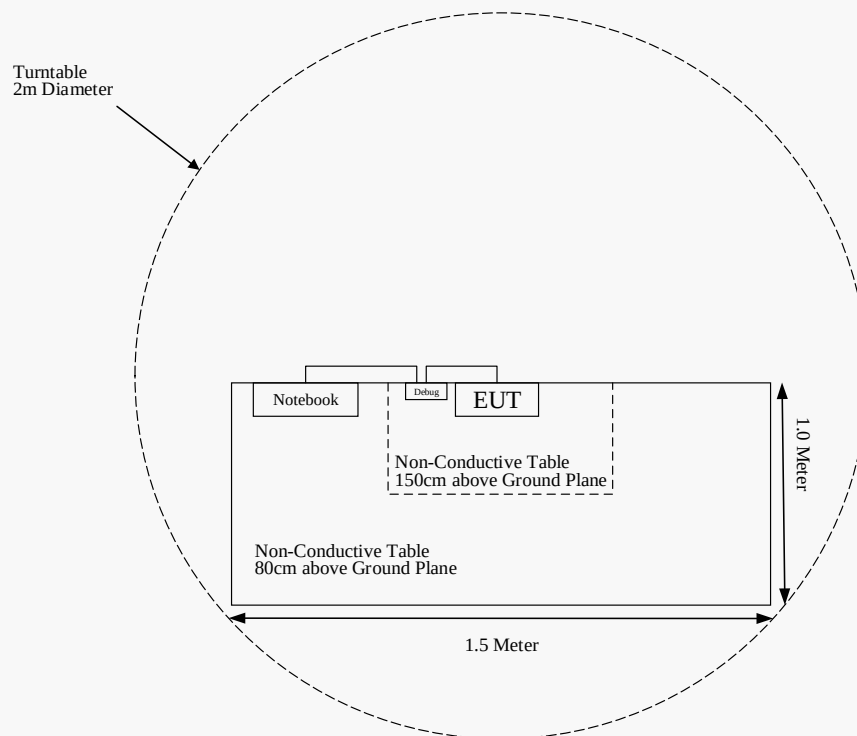
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Y700P	PF2B7PL5
/	Debug board	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To Port
DuPont Cable	0.2	EUT	Debug board
USB Cable	1.5	Debug board	Notebook

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
FCC §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)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	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	2026-03-13	2027-03-12
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
BACL	Active Loop Antenna	1313-1A	4041511	2025-08-10	2028-08-09
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	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-9	009	2026-03-13	2027-03-12
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	2026-06-01	2027-05-31
EMCO (The Electro-Mechanics Co.)	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	60726	2026-03-16	2027-03-15
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2026-04-08	2027-04-07
Narda	Attenuator	10dB	010	2026-03-12	2027-03-11
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
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
MICRO-COAX	Coaxial Cable	Cable-25	025	2026-03-12	2027-03-11
JUNFLON	Cable	Cable-27	AUG-07-15-042	2026-03-16	2027-03-15
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101116	2026-03-16	2027-03-15
Narda	Attenuator	10dB	010	2026-03-12	2027-03-11
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Anritsu	Power Sensor	MA24418A	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).

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 conducted/EIRP Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	MPE ratio
		(dBi)	(numeric)	(dBm)	(mW)				
2.4G Wifi	2412-2462	0.73	1.18	21.0	125.89	20	0.0295	1.0	0.0295
BLE	2402-2480	2.4	1.74	8.0	6.31	20	0.0022	1.0	0.0022
SRD	24000-24250	/	/	8.5	7.08	20	0.0014	1.0	0.0014

Note:

1. For the above tune up power were declared by the manufacturer.
2. For SRD, the power of EUT: E Field@3m is 103.08 dBuV/m, so the EIRP = 7.88 dBm
3. $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$ for $d = 3 \text{ m}$.
Conducted Power(dBm)=EIRP(dBm)-antenna gain(dBi)
4. SRD, 2.4G Wifi and BLE can transmit simultaneously.

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

$$= S_{\text{SRD}}/S_{\text{limitSRD}} + S_{\text{2.4G wifi}}/S_{\text{limit2.4G wifi}} + S_{\text{BLE}}/S_{\text{limitBLE}}$$

$$= 0.0295 + 0.0022 + 0.0014$$

$$= 0.0331$$

$$< 1.0$$

Result: The device meet FCC MPE at 20 cm distance

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

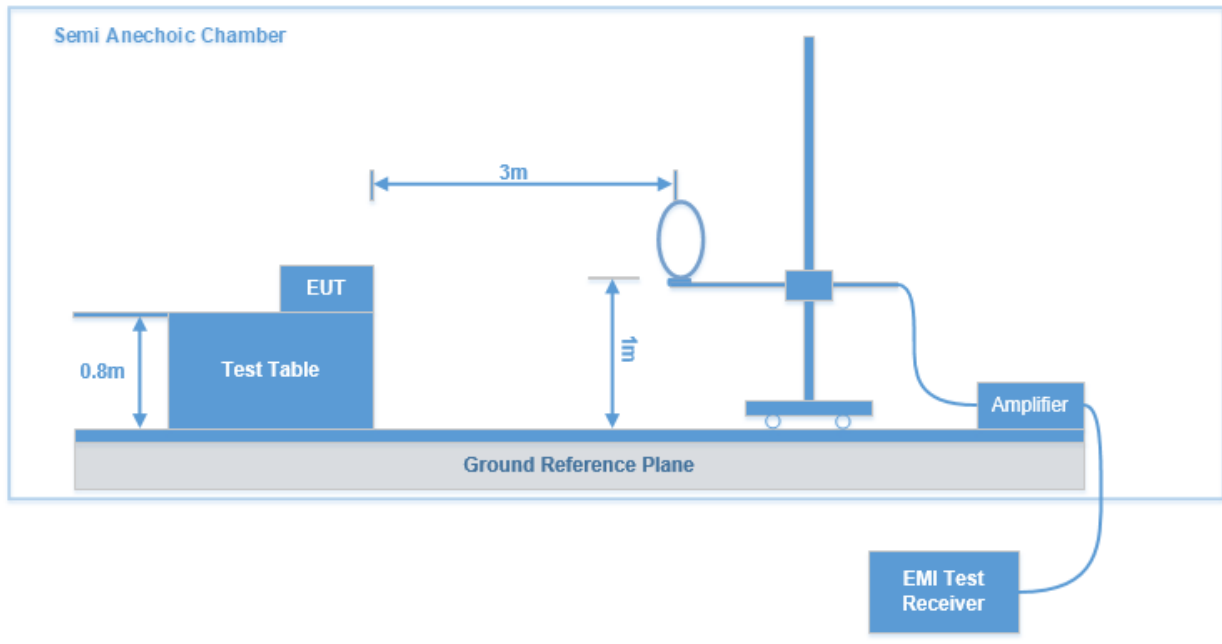
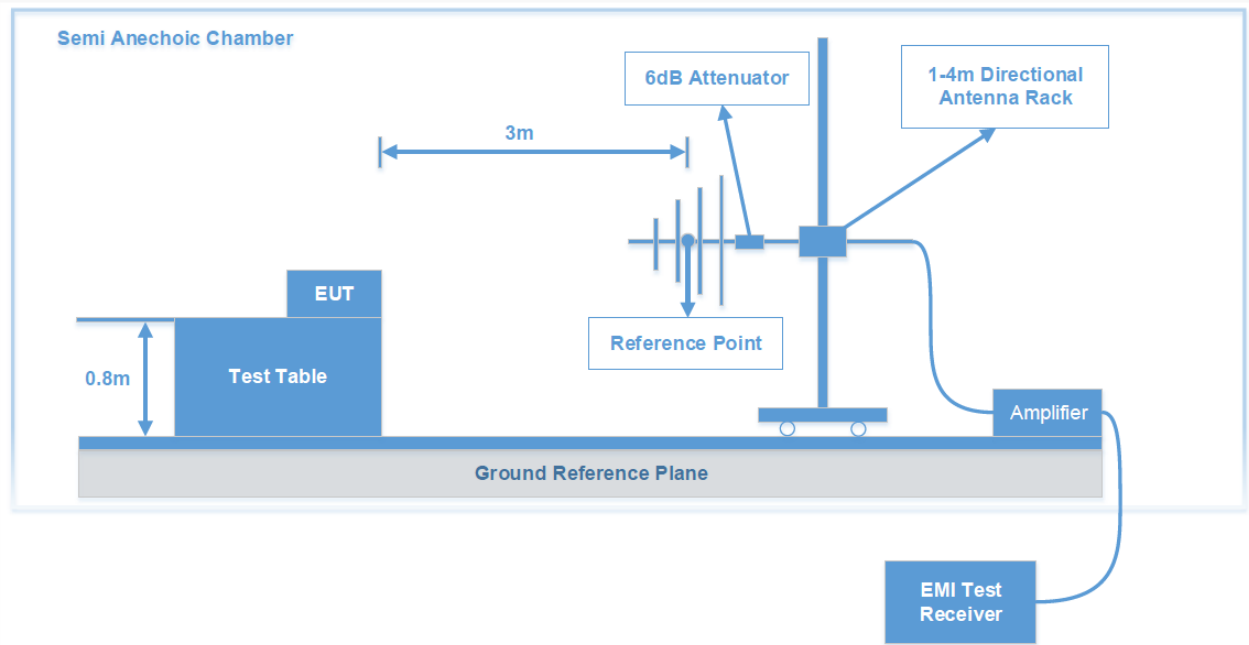
Antenna Connector Construction

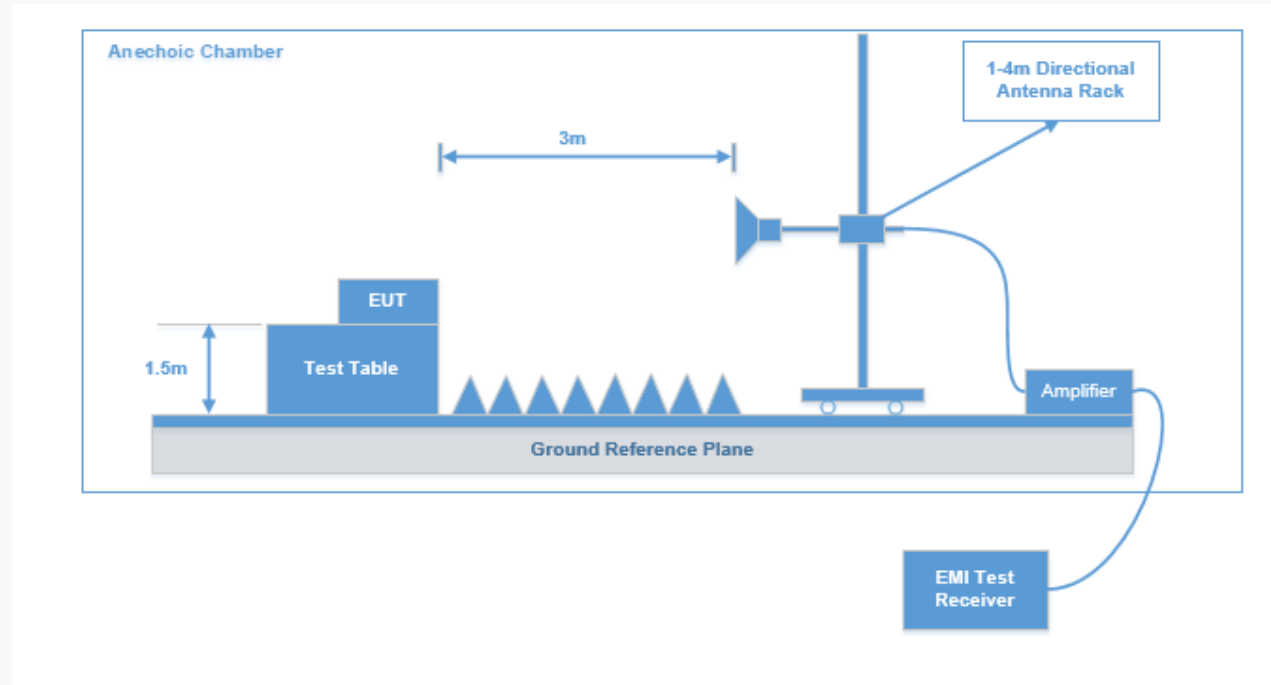
The EUT has two FPC antennas, one for 2.4G Wi-Fi and one for BLE, which permanently attached to the unit. Fulfill the requirement of this section. Please refer to the EUT photos.

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	Peak/QP
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	Peak/QP	Peak/QP
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 (dB μ V/m) = Meter Reading (dB μ V) + 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 (dB μ V/m) – Corrected Amplitude (dB μ 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, and Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

FCC §15.247(A) (2) - 6 DB EMISSION BANDWIDTH

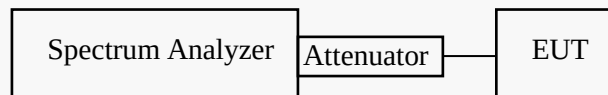
Applicable Standard

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.



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

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, Compliant 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

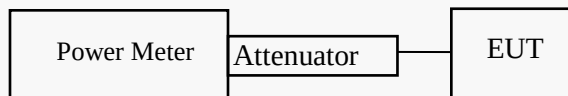
For 2.4G Wi-Fi:

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

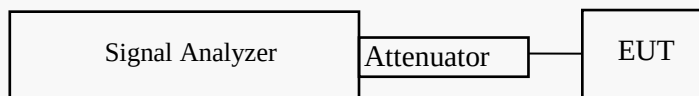
Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level.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



For BLE:

According to ANSI C63.10-2020 sub-clause 11.9.1.1

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



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

Test Data: See Appendix

FCC §15.247(D) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE & CONDUCTED SPURIOUS EMISSION

Band Edges

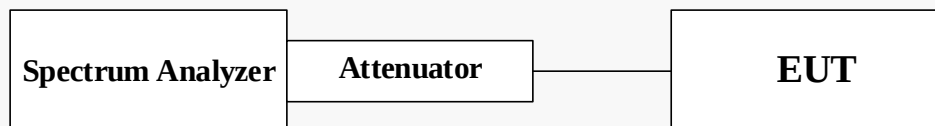
Applicable Standard

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 Compliant 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 6.10.

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

Conducted Spurious Emission

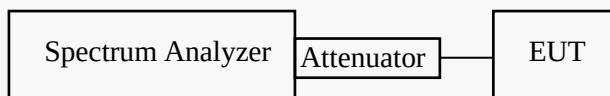
Applicable Standard

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

According to ANSI C63.10-2020 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: Offset (13dB) = Attenuator (10dB) + Cable Loss (3.0dB)

Test Data: See Appendix

FCC §15.247(E) - POWER SPECTRAL DENSITY

Applicable Standard

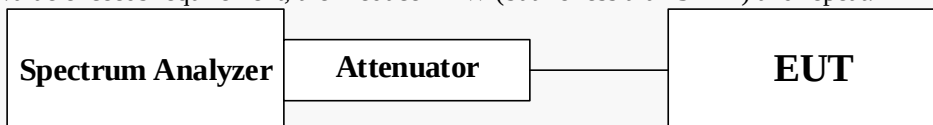
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of 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 Compliant, and it is optional if the maximum conducted (average) output power was used to determine Compliant:

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

Test Data: See Appendix

APPENDIX - TEST DATA

SPURIOUS EMISSIONS

Environmental Conditions & Test Information

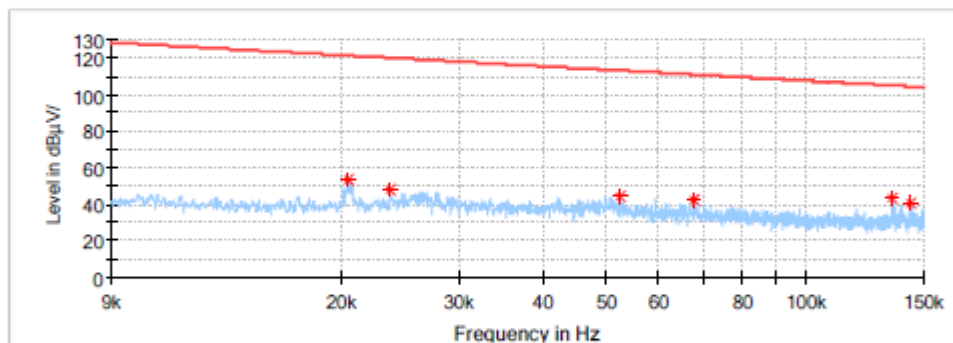
Test Item:	SPURIOUS EMISSIONS			
	9kHz – 30MHz	30MHz - 1GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2026-08-15	2026-08-15	2026-08-07 to 2026-09-12	2026-08-20
Temperature:	22.6°C	22.6°C	24.8-26.2°C	26°C
Relative Humidity:	60%	60%	41-45%	49%
ATM Pressure:	100.4 kPa	100.4 kPa	100.5-102.2 kPa	101.2 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

Test Result: Compliant

EUT operation mode: Transmitting

For Wi-Fi Mode:**9 kHz-30MHz:** (Transmitting in maximum output power mode and 802.11g mode low channel)**Parallel(worst case)****9kHz-150kHz****Common Information**

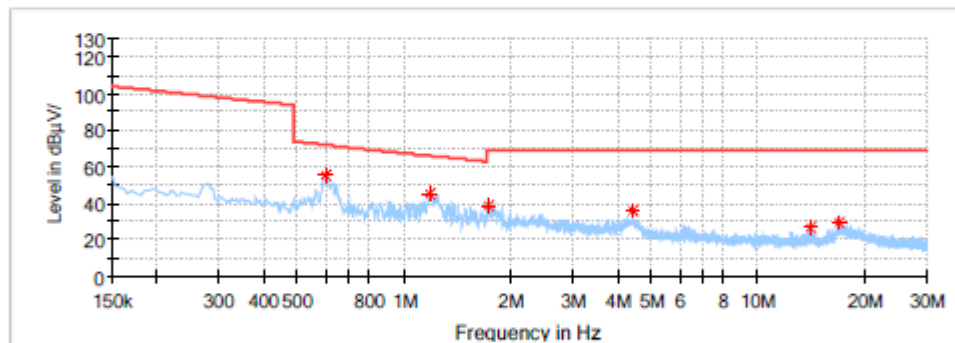
Project No:	RKSA260730001
EUT Model:	S150Max
Test Mode:	Transmitting in 802.11g mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, 1313-1A, 310N
Receiver Setting:	RBW: 200 Hz, VBW: 1 kHz, Sweep Time: Auto
Temperature:	22.6°C
Humidity:	60%
Barometric Pressure:	100.4kPa
Test Engineer:	Scarf Yang
Check by:	Jenny Yang
Test Date:	2026/8/15

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.020456	53.26	121.38	68.12	Parallel	-0.1
0.023629	47.58	120.12	72.54	Parallel	-0.1
0.052428	43.95	113.21	69.26	Parallel	-3.5
0.067550	42.62	111.01	68.40	Parallel	-5.3
0.134472	43.68	105.03	61.36	Parallel	-10.0
0.143320	40.18	104.47	64.29	Parallel	-10.4

150kHz-30MHz**Common Information**

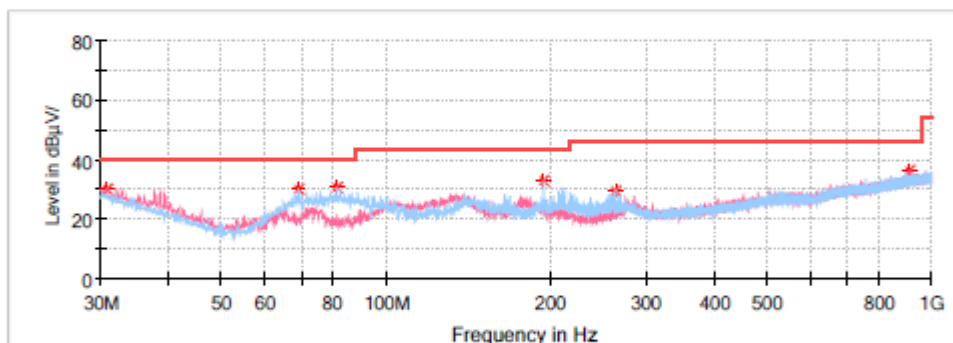
Project No: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in 802.11g mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW: 9k Hz, VBW: 30 kHz, Sweep Time: Auto
Temperature: 22.6°C
Humidity: 60%
Barometric Pressure: 100.4kPa
Test Engineer: Scarf Yang
Check by: Jenny Yang
Test Date: 2026/8/15

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.601481	55.67	71.90	16.23	Parallel	-23.0
1.187288	44.85	65.94	21.08	Parallel	-27.7
1.735781	38.51	69.54	31.03	Parallel	-29.6
4.433475	36.21	69.54	33.33	Parallel	-31.3
14.142188	26.87	69.54	42.67	Parallel	-32.2
16.925700	29.10	69.54	40.44	Parallel	-32.6

30MHz-1GHz (Transmitting in maximum output power 802.11g mode and low channel):**Low Channel: 2412MHz****Common Information**

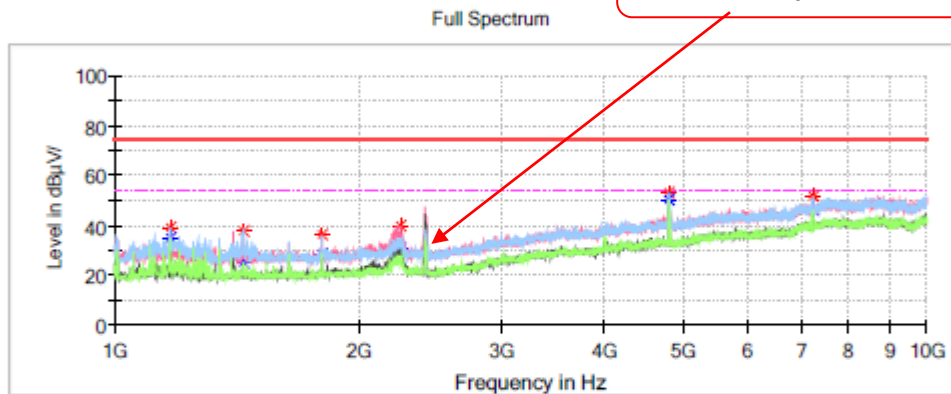
Project No:	RKSA260730001
EUT Model:	S150Max
Test Mode:	Transmitting in 802.11g mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	22.6°C
Humidity:	60%
Barometric Pressure:	100.4kPa
Test Engineer:	Scar Yang
Check by:	Jenny Yang
Test Date:	2026/8/15

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.848750	30.11	40.00	9.89	V	-5.2
69.406250	30.09	40.00	9.91	H	-16.5
81.288750	30.70	40.00	9.30	H	-17.1
194.293750	32.64	43.50	10.86	H	-12.1
263.891250	29.51	46.00	16.49	H	-11.5
910.275000	36.48	46.00	9.52	V	1.6

**1GHz-10GHz:
802.11b Mode:****Low Channel: 2412MHz****Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11b 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

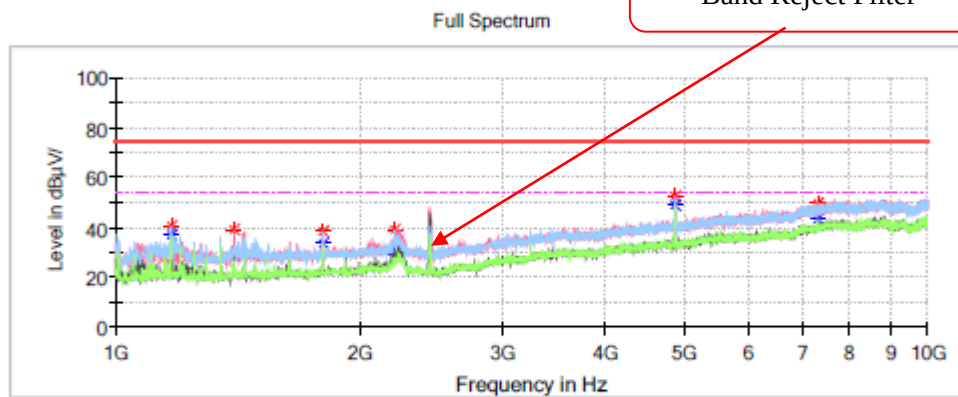
Fundamental Test with
Band Reject Filter**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1169.200000	39.18	---	74.00	34.82	H	-15.4
1169.200000	---	35.12	54.00	18.88	H	-15.4
1438.300000	37.84	---	74.00	36.16	H	-14.3
1438.300000	---	25.10	54.00	28.90	H	-14.3
1799.200000	36.43	---	74.00	37.57	V	-12.6
1799.200000	---	28.75	54.00	25.25	V	-12.6
2251.900000	39.98	---	74.00	34.02	V	-10.9
2251.900000	---	30.72	54.00	23.28	V	-10.9
4824.100000	52.97	---	74.00	21.03	H	-3.4
4824.100000	---	50.35	54.00	3.65	H	-3.4
7237.900000	51.62	---	74.00	22.38	H	2.4
7237.900000	---	45.93	54.00	8.07	H	2.4

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA260730001
 EUT Model: S150Max
 Test Mode: 2.4G WIFI 802.11b 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: 24.8℃
 Humidity: 45%
 Atmospheric Pressure: 102.2kPa
 Test Engineer: Destine Hu
 Check by: Jenny Yang
 Test Date: 2026/9/12

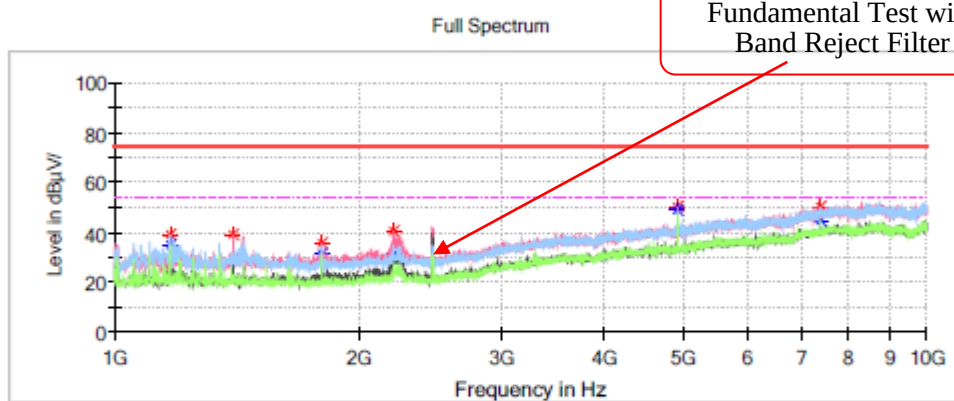
Fundamental Test with
Band Reject Filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
1169.200000	40.32	---	74.00	33.68	H	-15.4
1169.200000	---	36.76	54.00	17.24	H	-15.4
1399.600000	39.16	---	74.00	34.84	V	-14.5
1399.600000	---	28.64	54.00	25.36	V	-14.5
1799.200000	38.59	---	74.00	35.41	H	-12.6
1799.200000	---	33.59	54.00	20.41	H	-12.6
2201.500000	38.97	---	74.00	35.03	H	-11.1
2201.500000	---	29.49	54.00	24.51	H	-11.1
4873.600000	---	49.03	54.00	4.97	H	-3.2
4873.600000	52.67	---	74.00	21.33	H	-3.2
7312.600000	49.34	---	74.00	24.66	H	2.7
7312.600000	---	43.57	54.00	10.43	H	2.7

High Channel: 2462MHz**Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11b 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

**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)
1169.200000	38.89	---	74.00	35.11	H	-15.4
1169.200000	---	34.91	54.00	19.09	H	-15.4
1399.600000	38.99	---	74.00	35.01	V	-14.5
1399.600000	---	29.31	54.00	24.69	V	-14.5
1799.200000	35.85	---	74.00	38.15	V	-12.6
1799.200000	---	31.37	54.00	22.63	V	-12.6
2199.700000	40.75	---	74.00	33.25	V	-11.1
2199.700000	---	31.80	54.00	22.20	V	-11.1
4924.000000	---	48.87	54.00	5.13	V	-3.0
4924.000000	50.63	---	74.00	23.37	V	-3.0
7383.700000	50.32	---	74.00	23.68	H	2.9
7383.700000	---	44.46	54.00	9.54	H	2.9

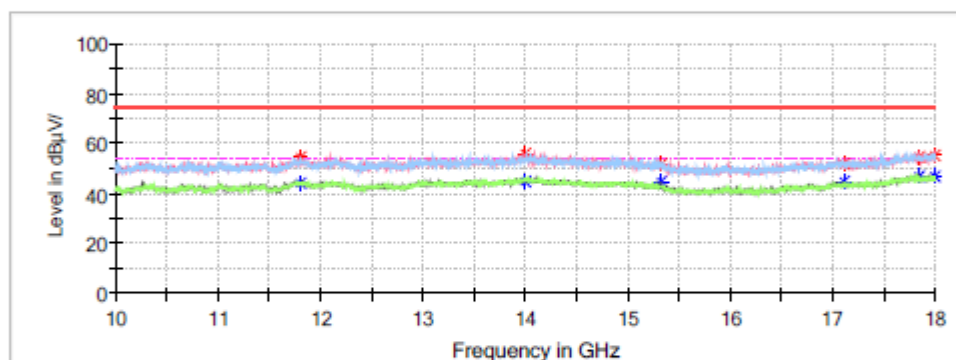
10GHz-18GHz:
802.11b Mode:

Low Channel: 2412MHz

Common Information

Project No: RKSA260730001
 EUT Model: S150Max
 Test Mode: 2.4G WIFI 802.11b mode Low Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.2℃
 Humidity: 41%
 Atmospheric Pressure: 100.5kPa
 Test Engineer: Destine Hu
 Check by: Jenny Yang
 Test Date: 2026/8/7

Full Spectrum



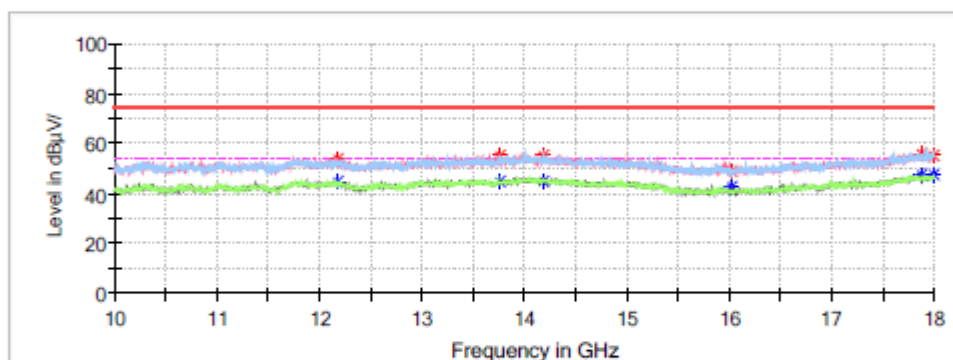
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11806.400000	---	44.08	54.00	9.92	H	8.7
11806.400000	54.28	---	74.00	19.72	H	8.7
13996.800000	55.88	---	74.00	18.12	V	10.6
13996.800000	---	45.04	54.00	8.96	V	10.6
15332.800000	---	44.51	54.00	9.49	V	8.3
15332.800000	51.49	---	74.00	22.51	V	8.3
17115.200000	51.78	---	74.00	22.22	V	9.8
17115.200000	---	44.98	54.00	9.02	V	9.8
17854.400000	54.84	---	74.00	19.16	H	12.9
17854.400000	---	47.15	54.00	6.85	H	12.9
17998.400000	---	46.81	54.00	7.19	V	13.8
17998.400000	55.26	---	74.00	18.74	V	13.8

Middle Channel: 2437MHz**Common Information**

Project No: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11b mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.2℃
Humidity: 41%
Atmospheric Pressure: 100.5kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/8/7

Full Spectrum

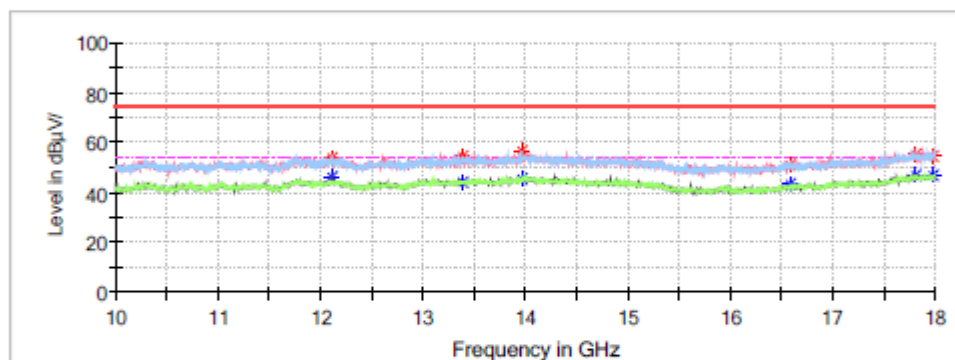
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12177.600000	---	45.05	54.00	8.95	V	8.9
12177.600000	54.15	---	74.00	19.85	V	8.9
13753.600000	---	44.69	54.00	9.31	H	10.2
13753.600000	55.48	---	74.00	18.52	H	10.2
14180.800000	55.57	---	74.00	18.43	V	10.8
14180.800000	---	44.82	54.00	9.18	V	10.8
16020.800000	---	42.32	54.00	11.68	V	7.6
16020.800000	49.00	---	74.00	25.00	V	7.6
17881.600000	55.71	---	74.00	18.29	V	13.1
17881.600000	---	47.54	54.00	6.46	V	13.1
17998.400000	55.52	---	74.00	18.48	H	13.8
17998.400000	---	47.63	54.00	6.37	H	13.8

High Channel: 2462MHz**Common Information**

Project No: RKSA260730001
 EUT Model: S150Max
 Test Mode: 2.4G WIFI 802.11b mode High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.2℃
 Humidity: 41%
 Atmospheric Pressure: 100.5kPa
 Test Engineer: Destine Hu
 Check by: Jenny Yang
 Test Date: 2026/8/7

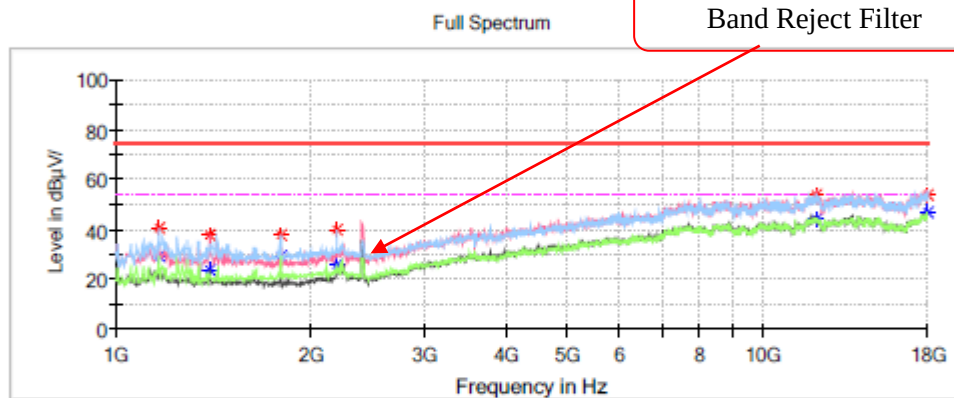
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
12118.400000	---	45.91	54.00	8.09	V	9.0
12118.400000	53.98	---	74.00	20.02	V	9.0
13382.400000	---	43.79	54.00	10.21	H	9.4
13382.400000	54.42	---	74.00	19.58	H	9.4
13968.000000	56.58	---	74.00	17.42	H	10.6
13968.000000	---	45.13	54.00	8.87	H	10.6
16580.800000	50.78	---	74.00	23.22	V	7.9
16580.800000	---	43.20	54.00	10.80	V	7.9
17809.600000	---	47.02	54.00	6.98	V	12.7
17809.600000	55.25	---	74.00	18.75	V	12.7
17988.800000	54.46	---	74.00	19.54	H	13.8
17988.800000	---	47.16	54.00	6.84	H	13.8

**1GHz-18GHz:
802.11g Mode:****Low Channel: 2412MHz****Common Information**

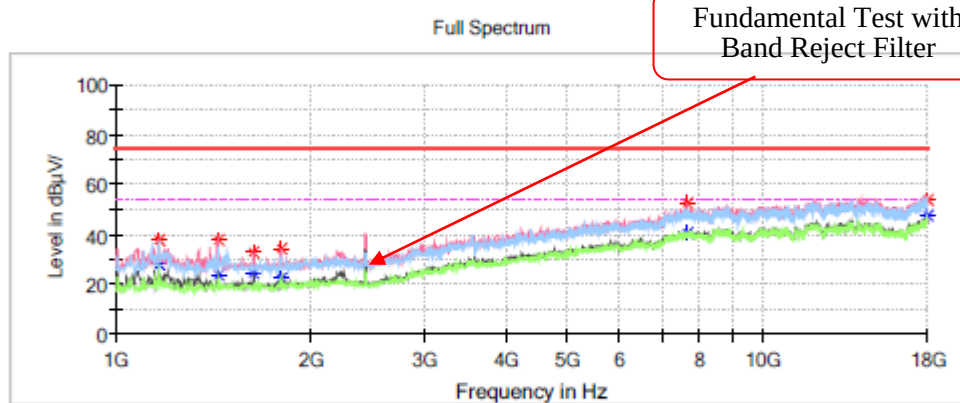
Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11g mode Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

**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)
1166.600000	---	29.57	54.00	24.43	H	-15.4
1166.600000	40.54	---	74.00	33.46	H	-15.4
1397.800000	---	23.68	54.00	30.32	V	-14.5
1397.800000	38.08	---	74.00	35.92	V	-14.5
1799.000000	---	29.05	54.00	24.95	H	-12.6
1799.000000	37.49	---	74.00	36.51	H	-12.6
2196.800000	---	25.56	54.00	28.44	H	-11.1
2196.800000	40.12	---	74.00	33.88	H	-11.1
12080.600000	---	44.29	54.00	9.71	V	9.0
12080.600000	54.19	---	74.00	19.81	V	9.0
17993.200000	54.15	---	74.00	19.85	V	13.8
17993.200000	---	46.98	54.00	7.02	V	13.8

Middle Channel: 2437MHz**Common Information**

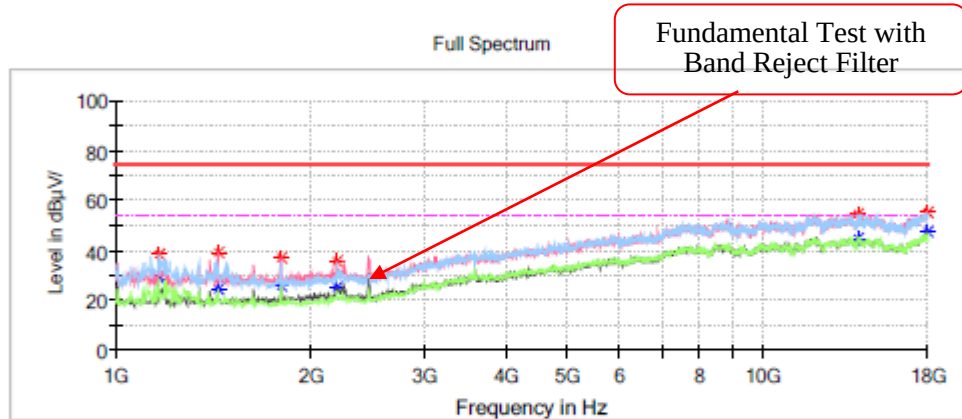
Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11g mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1166.600000	38.02	---	74.00	35.98	H	-15.4
1166.600000	---	27.99	54.00	26.01	H	-15.4
1438.600000	37.98	---	74.00	36.02	V	-14.3
1438.600000	---	24.03	54.00	29.97	V	-14.3
1635.800000	32.99	---	74.00	41.01	V	-13.4
1635.800000	---	24.21	54.00	29.79	V	-13.4
1799.000000	34.09	---	74.00	39.91	V	-12.6
1799.000000	---	22.52	54.00	31.48	V	-12.6
7657.200000	52.33	---	74.00	21.67	V	3.4
7657.200000	---	40.43	54.00	13.57	V	3.4
17993.200000	---	47.25	54.00	6.75	H	13.8
17993.200000	54.13	---	74.00	19.87	H	13.8

High Channel: 2462MHz**Common Information**

Project No.: RKSA260730001
 EUT Model: S150Max
 Test Mode: 2.4G WIFI 802.11g 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: 24.8℃
 Humidity: 45%
 Atmospheric Pressure: 102.2kPa
 Test Engineer: Destine Hu
 Check by: Jenny Yang
 Test Date: 2026/9/12

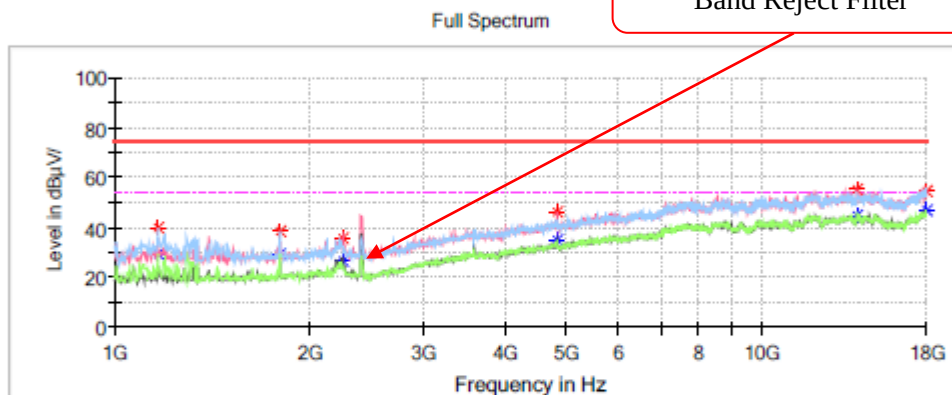
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1166.600000	38.74	---	74.00	35.26	H	-15.4
1166.600000	---	29.00	54.00	25.00	H	-15.4
1438.600000	38.85	---	74.00	35.15	V	-14.3
1438.600000	---	24.40	54.00	29.60	V	-14.3
1799.000000	36.77	---	74.00	37.23	V	-12.6
1799.000000	---	25.92	54.00	28.08	V	-12.6
2200.200000	---	25.32	54.00	28.68	V	-11.1
2200.200000	35.34	---	74.00	38.66	V	-11.1
14022.000000	---	45.00	54.00	9.00	H	10.7
14022.000000	54.55	---	74.00	19.45	H	10.7
17996.600000	---	47.32	54.00	6.68	V	13.8
17996.600000	55.07	---	74.00	18.93	V	13.8

802.11n-HT20 Mode :**Low Channel: 2412MHz****Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11n20 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

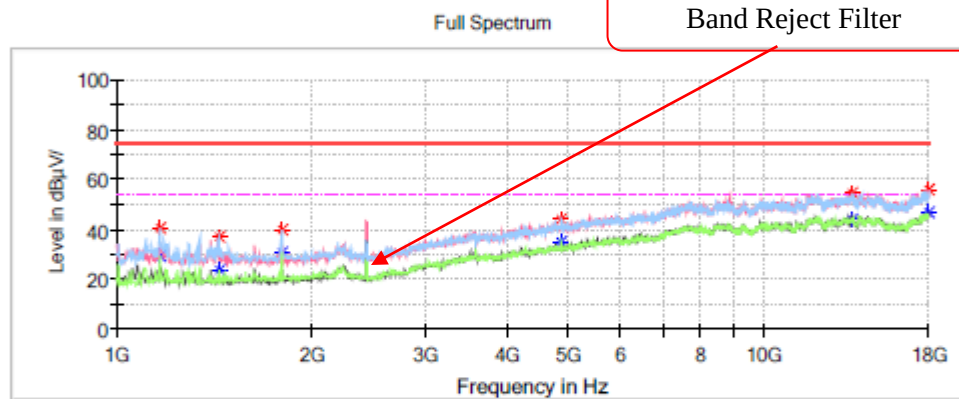
Fundamental Test with
Band Reject Filter

**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)
1166.600000	---	29.18	54.00	24.82	H	-15.4
1166.600000	39.64	---	74.00	34.36	H	-15.4
1799.000000	---	29.70	54.00	24.30	H	-12.6
1799.000000	38.61	---	74.00	35.39	H	-12.6
2247.800000	---	26.87	54.00	27.13	V	-10.9
2247.800000	35.89	---	74.00	38.11	V	-10.9
4821.600000	---	34.70	54.00	19.30	V	-3.4
4821.600000	45.85	---	74.00	28.15	V	-3.4
14066.200000	---	44.79	54.00	9.21	V	10.7
14066.200000	55.02	---	74.00	18.98	V	10.7
17996.600000	54.22	---	74.00	19.78	H	13.8
17996.600000	---	47.10	54.00	6.90	H	13.8

Middle Channel: 2437MHz**Common Information**

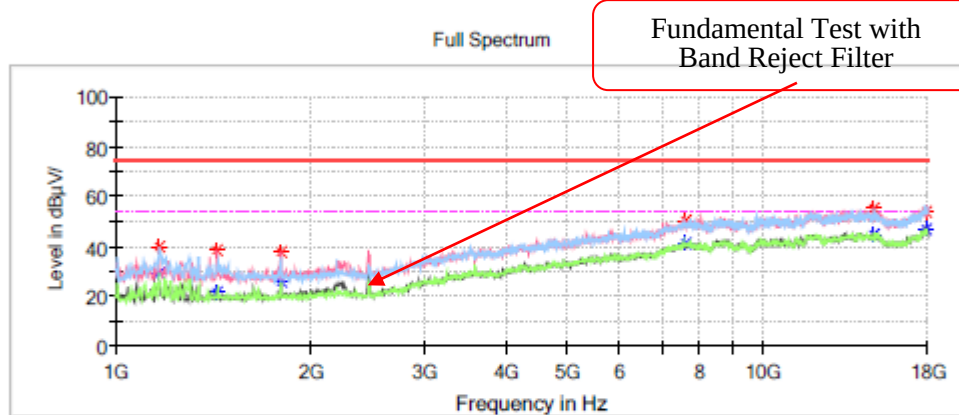
Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11n20 mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

**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)
1166.600000	---	29.71	54.00	24.29	H	-15.4
1166.600000	40.45	---	74.00	33.55	H	-15.4
1438.600000	---	23.44	54.00	30.56	H	-14.3
1438.600000	36.95	---	74.00	37.05	H	-14.3
1799.000000	---	31.02	54.00	22.98	H	-12.6
1799.000000	39.92	---	74.00	34.08	H	-12.6
4876.000000	---	35.23	54.00	18.77	H	-3.2
4876.000000	44.21	---	74.00	29.79	H	-3.2
13729.600000	---	44.07	54.00	9.93	V	10.1
13729.600000	54.37	---	74.00	19.63	V	10.1
17993.200000	55.69	---	74.00	18.31	V	13.8
17993.200000	---	47.05	54.00	6.95	V	13.8

High Channel: 2462MHz**Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11n20 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

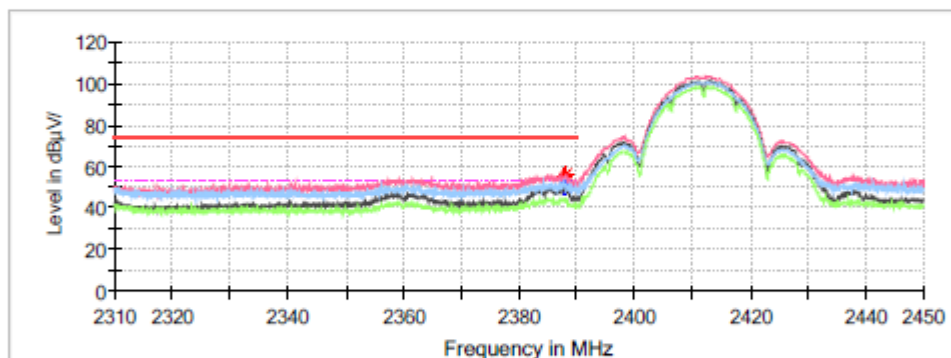
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1166.600000	39.95	---	74.00	34.05	H	-15.4
1166.600000	---	29.44	54.00	24.56	H	-15.4
1435.200000	38.20	---	74.00	35.80	V	-14.3
1435.200000	---	21.85	54.00	32.15	V	-14.3
1799.000000	37.52	---	74.00	36.48	V	-12.6
1799.000000	---	25.88	54.00	28.12	H	-12.6
7589.200000	50.62	---	74.00	23.38	H	3.3
7589.200000	---	41.36	54.00	12.64	H	3.3
14872.000000	---	44.61	54.00	9.39	H	9.8
14872.000000	54.96	---	74.00	19.04	H	9.8
17942.200000	---	46.97	54.00	7.03	V	13.5
17942.200000	53.88	---	74.00	20.12	V	13.5

**Band Edge:
802.11b Mode:****Low Channel****Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11b 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

Full Spectrum

**Critical Freqs**

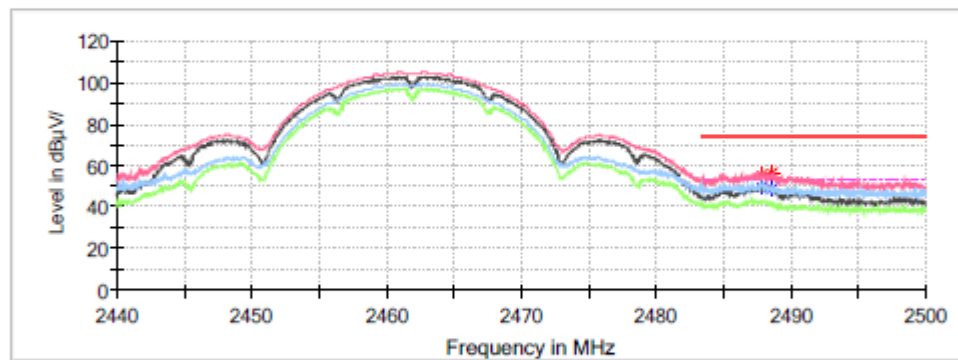
Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2387.868000	---	50.27	54.00	3.73	V	-0.6
2387.868000	55.11	---	74.00	18.89	V	-0.6
2388.036000	---	50.21	54.00	3.79	V	-0.6
2388.036000	56.60	---	74.00	17.40	V	-0.6

High Channel

Common Information

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11b 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

Full Spectrum



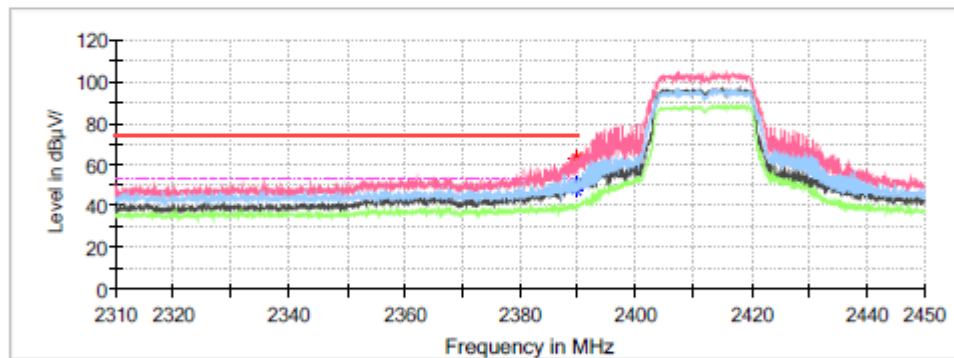
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2487.844000	55.57	---	74.00	18.43	V	-0.3
2487.844000	---	49.57	54.00	4.43	V	-0.3
2488.600000	56.38	---	74.00	17.62	V	-0.3
2488.600000	---	48.88	54.00	5.12	V	-0.3

802.11g Mode :**Low Channel****Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11g 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

Full Spectrum

**Critical Freqs**

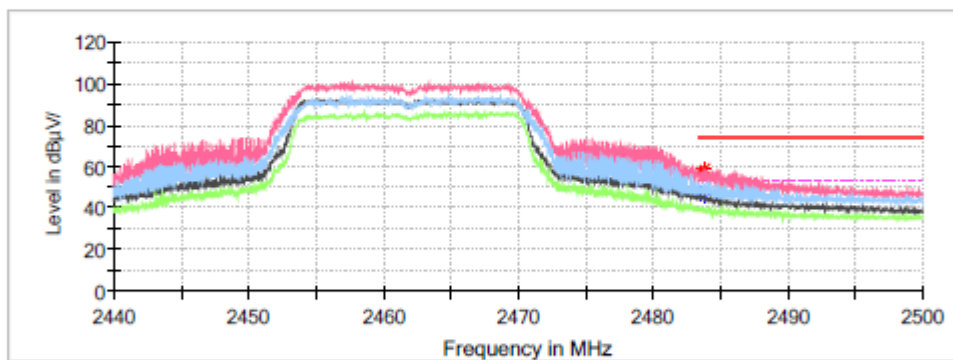
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.772000	62.82	---	74.00	11.18	V	-0.6
2389.772000	---	48.17	54.00	5.83	V	-0.6
2389.940000	62.76	---	74.00	11.24	V	-0.6
2389.940000	---	51.43	54.00	2.57	V	-0.6

High Channel

Common Information

Project No.: RKSA260730001
 EUT Model: S150Max
 Test Mode: 2.4G WIFI 802.11g 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: 24.8℃
 Humidity: 45%
 Atmospheric Pressure: 102.2kPa
 Test Engineer: Destine Hu
 Check by: Jenny Yang
 Test Date: 2026/9/12

Full Spectrum



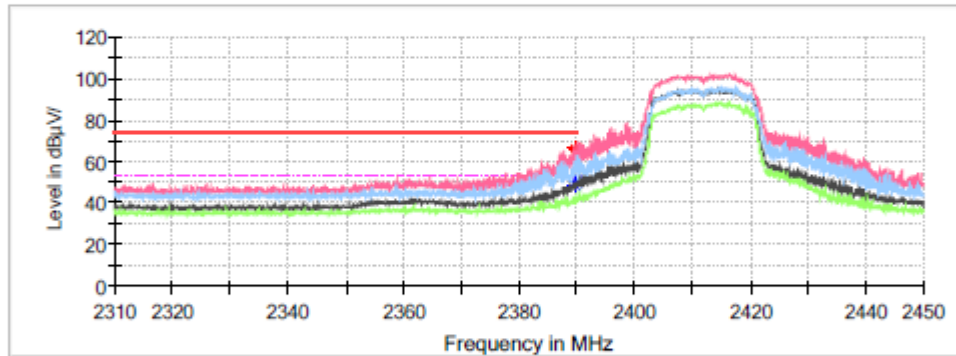
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.596000	---	46.77	54.00	7.23	V	-0.3
2483.596000	56.83	---	74.00	17.17	V	-0.3
2483.776000	---	45.81	54.00	8.19	V	-0.3
2483.776000	58.61	---	74.00	15.39	V	-0.3

802.11n-HT20 Mode:**Low Channel****Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11n20 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

Full Spectrum

**Critical Freqs**

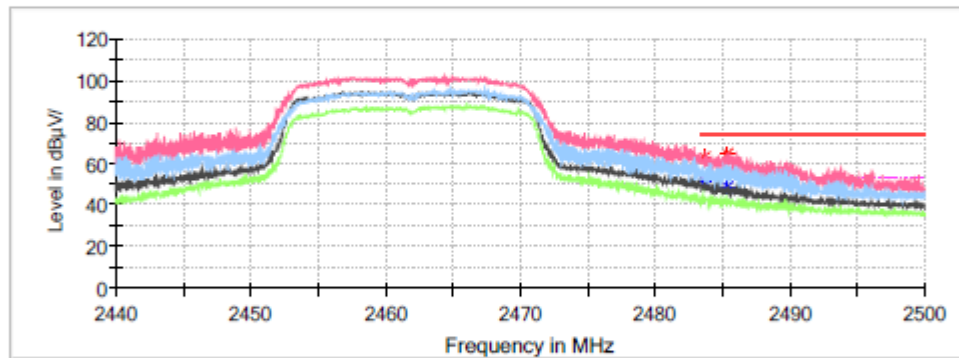
Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.520000	66.23	---	74.00	7.77	V	-0.6
2389.520000	---	48.96	54.00	5.04	V	-0.6
2389.884000	65.28	---	74.00	8.72	V	-0.6
2389.884000	---	50.76	54.00	3.24	V	-0.6

High Channel

Common Information

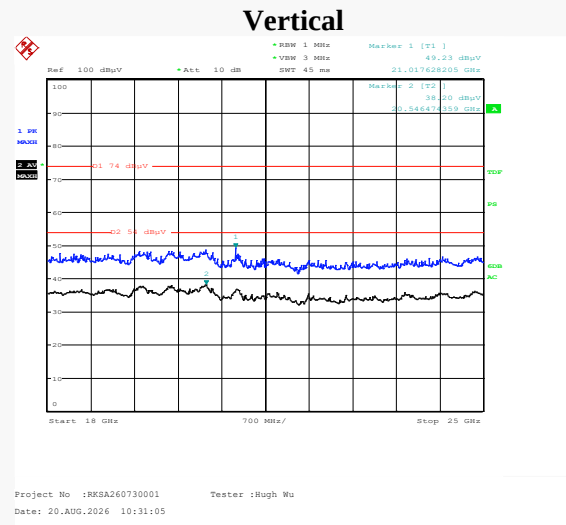
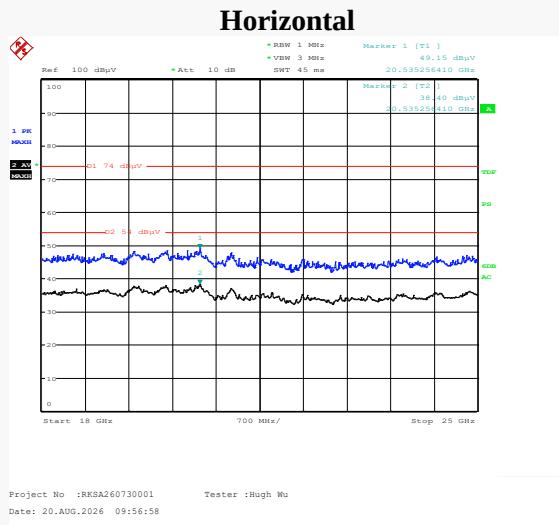
Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: 2.4G WIFI 802.11n20 mode High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

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)
2483.728000	---	50.80	54.00	3.20	V	-0.3
2483.728000	62.86	---	74.00	11.14	V	-0.3
2485.420000	---	48.30	54.00	5.70	V	-0.3
2485.420000	64.95	---	74.00	9.05	V	-0.3

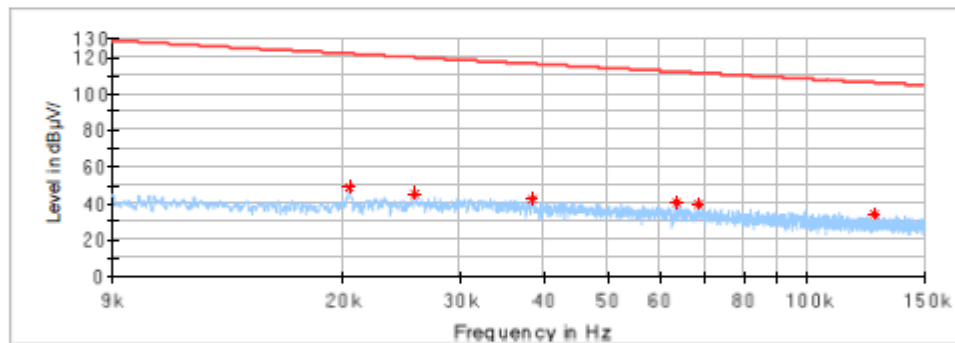
18GHz-25GHz: Transmitting in maximum output power mode and 802.11g mode low channel

Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.55	---	38.2	54	15.8	V	12.77
21.02	49.23	---	74	24.77	V	13.18
20.54	---	38.4	54	15.6	H	12.76
20.54	49.15	---	74	24.85	H	12.76

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

For BLE 1Mbps Mode:**9 kHz-30MHz:** Transmitting in maximum output power mode BLE 1Mbps high channel**Parallel(worst case)****9kHz-150kHz****Common Information**

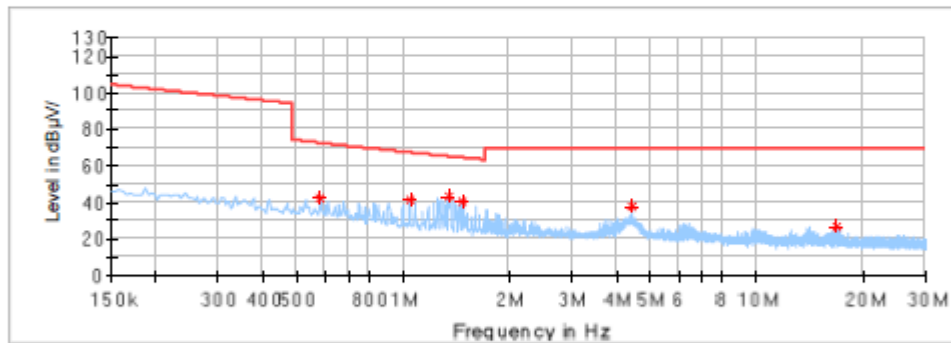
Project No: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW:200 Hz, VBW: 1 kHz, Sweep Time: Auto
Temperature: 22.6°C
Humidity: 60%
Barometric Pressure: 100.4kPa
Test Engineer: Scarf Yang
Check by: Jenny Yang
Test Date: 2026/8/15

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB)
0.020386	48.52	121.41	72.89	V	-0.1
0.025656	44.90	119.41	74.51	V	-0.1
0.038487	42.02	115.89	73.88	V	-1.4
0.063285	40.33	111.58	71.25	V	-4.8
0.068290	39.43	110.92	71.49	V	-5.4
0.126189	33.91	105.58	71.67	V	-9.6

150kHz-30MHz**Common Information**

Project No: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M 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: 22.6°C
Humidity: 60%
Barometric Pressure: 100.4kPa
Test Engineer: Scarf Yang
Check by: Jenny Yang
Test Date: 2026/8/15

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB)
0.582825	41.96	72.19	30.23	V	-22.8
1.045500	41.18	67.01	25.84	V	-27.2
1.344000	43.04	64.91	21.86	V	-28.2
1.463400	40.96	64.21	23.25	V	-28.6
4.433475	38.12	69.54	31.42	V	-31.3
16.824956	26.30	69.54	43.24	V	-32.6

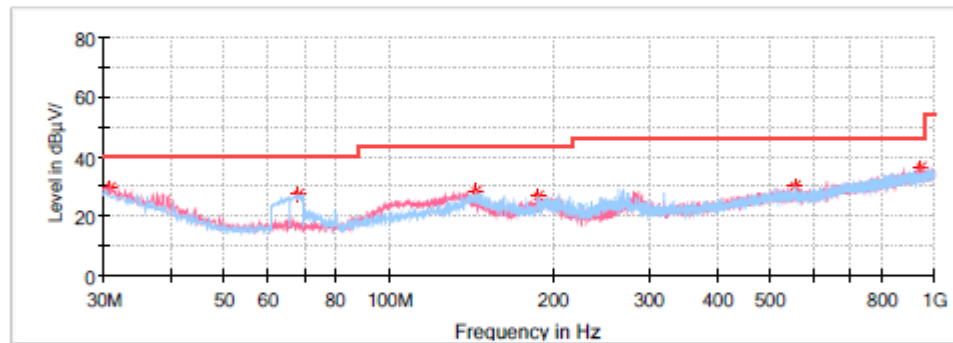
BLE (1 Mbps) (Transmitting in maximum output power BLE (1 Mbps) high channel)

30MHz-1GHz

High Channel: 2480MHz

Common Information

Project No:	RKSA260730001
EUT Model:	S150Max
Test Mode:	Transmitting in BLE-1M 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:	22.6°C
Humidity:	60%
Barometric Pressure:	100.4kPa
Test Engineer:	Scarf Yang
Check by:	Jenny Yang
Test Date:	2026/8/15



Critical_Freqs

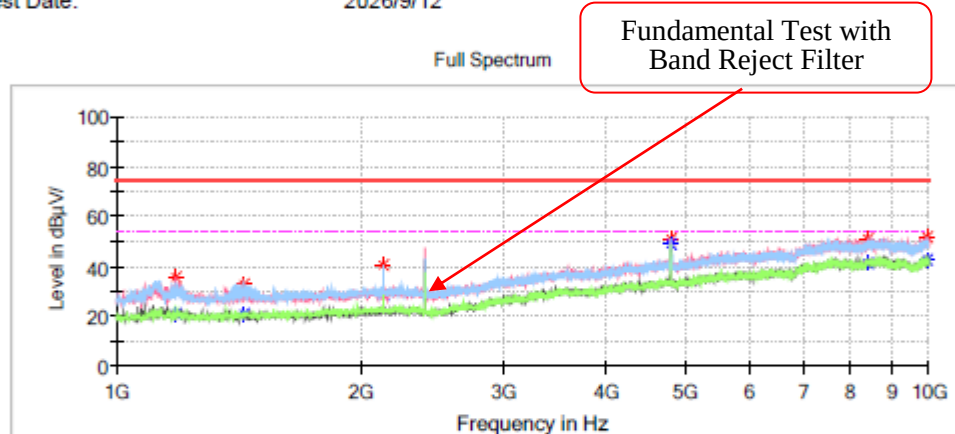
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.848750	29.22	40.00	10.78	V	-5.2
68.315000	27.09	40.00	12.91	H	-16.6
144.460000	28.52	43.50	14.98	H	-11.2
187.988750	26.83	43.50	16.67	H	-12.3
557.073750	30.09	46.00	15.91	H	-4.4
947.256250	36.46	46.00	9.54	V	2.1

BLE (1 Mbps)
1GHz-10GHz:

Low Channel: 2402MHz

Common Information

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

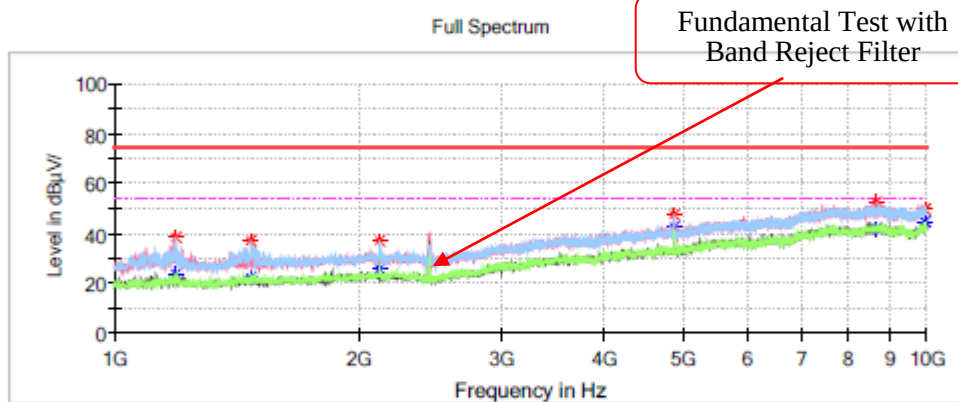


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1180.900000	35.59	---	74.00	38.41	V	-15.4
1180.900000	---	20.80	54.00	33.20	V	-15.4
1433.800000	---	21.14	54.00	32.86	H	-14.3
1433.800000	32.87	---	74.00	41.13	H	-14.3
2130.400000	40.31	---	74.00	33.69	H	-11.3
2130.400000	---	28.79	54.00	25.21	H	-11.3
4804.300000	51.14	---	74.00	22.86	H	-3.4
4804.300000	---	48.87	54.00	5.13	H	-3.4
8404.300000	---	41.10	54.00	12.90	V	4.5
8404.300000	51.19	---	74.00	22.81	V	4.5
9942.400000	---	42.84	54.00	11.16	H	6.2
9942.400000	51.61	---	74.00	22.39	H	6.2

Middle Channel: 2440MHz**Common Information**

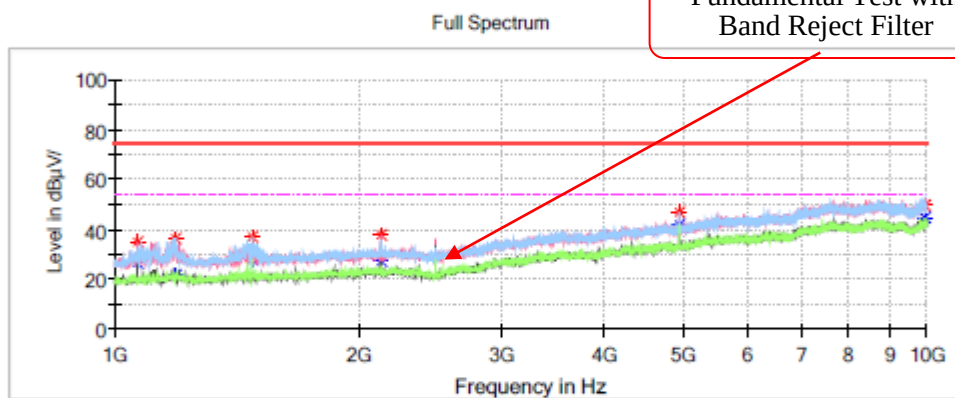
Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

**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)
1190.800000	---	23.90	54.00	30.10	H	-15.3
1190.800000	38.27	---	74.00	35.73	H	-15.3
1472.500000	---	22.59	54.00	31.41	H	-14.2
1472.500000	36.74	---	74.00	37.26	H	-14.2
2124.100000	---	26.13	54.00	27.87	H	-11.3
2124.100000	37.00	---	74.00	37.00	H	-11.3
4879.900000	---	42.51	54.00	11.49	V	-3.2
4879.900000	47.70	---	74.00	26.30	V	-3.2
8675.200000	52.19	---	74.00	21.81	V	4.8
8675.200000	---	41.80	54.00	12.20	V	4.8
9933.400000	49.67	---	74.00	24.33	H	6.2
9933.400000	---	45.00	54.00	9.00	H	6.2

High Channel: 2480MHz**Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

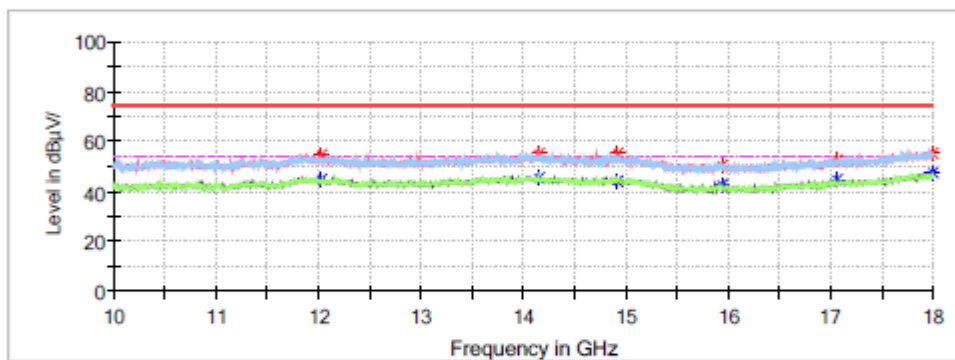
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.800000	34.97	---	74.00	39.03	V	-15.9
1064.800000	---	26.38	54.00	27.62	V	-15.9
1186.300000	36.54	---	74.00	37.46	H	-15.4
1186.300000	---	21.94	54.00	32.06	H	-15.4
1476.100000	37.23	---	74.00	36.77	H	-14.2
1476.100000	---	28.17	54.00	25.83	H	-14.2
2125.000000	---	27.54	54.00	26.46	V	-11.3
2125.000000	37.63	---	74.00	36.37	V	-11.3
4960.000000	46.74	---	74.00	27.26	H	-2.9
4960.000000	---	42.27	54.00	11.73	H	-2.9
9928.000000	49.35	---	74.00	24.65	V	6.2
9928.000000	---	44.77	54.00	9.23	V	6.2

10GHz-18GHz:**Low Channel: 2402MHz****Common Information**

Project No: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.0℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/8/20

Full Spectrum

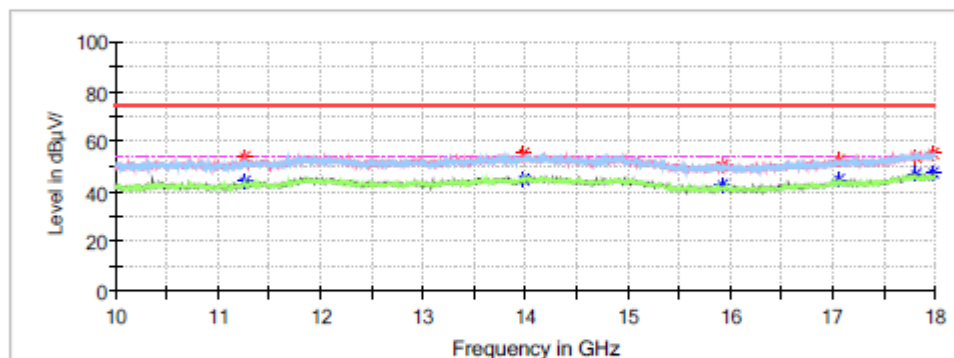
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12022.400000	54.85	---	74.00	19.15	V	9.0
12022.400000	---	44.51	54.00	9.49	V	9.0
14161.600000	---	45.13	54.00	8.87	V	10.8
14161.600000	55.09	---	74.00	18.91	V	10.8
14916.800000	---	44.24	54.00	9.76	V	9.7
14916.800000	54.95	---	74.00	19.05	V	9.7
15948.800000	---	42.59	54.00	11.41	V	7.6
15948.800000	50.07	---	74.00	23.93	V	7.6
17057.600000	---	44.57	54.00	9.43	H	9.6
17057.600000	52.36	---	74.00	21.64	H	9.6
17996.800000	---	47.63	54.00	6.37	H	13.8
17996.800000	55.06	---	74.00	18.94	H	13.8

Middle Channel: 2440MHz**Common Information**

Project No: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.0℃
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/8/20

Full Spectrum

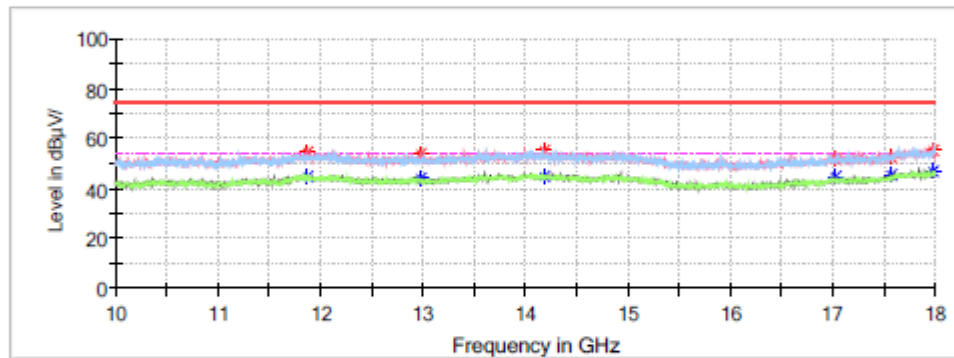
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11251.200000	---	43.72	54.00	10.28	V	7.4
11251.200000	53.55	---	74.00	20.45	V	7.4
13980.800000	---	44.65	54.00	9.35	H	10.6
13980.800000	55.06	---	74.00	18.94	H	10.6
15916.800000	50.32	---	74.00	23.68	V	7.6
15916.800000	---	42.84	54.00	11.16	V	7.6
17072.000000	---	44.96	54.00	9.04	V	9.7
17072.000000	52.56	---	74.00	21.44	V	9.7
17809.600000	53.71	---	74.00	20.29	H	12.7
17809.600000	---	47.07	54.00	6.93	H	12.7
17982.400000	---	47.83	54.00	6.17	V	13.7
17982.400000	54.91	---	74.00	19.09	V	13.7

High Channel: 2480MHz**Common Information**

Project No: RKSA260730001
 EUT Model: S150Max
 Test Mode: Transmitting in BLE-1M High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.0℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Check by: Jenny Yang
 Test Date: 2026/8/20

Full Spectrum

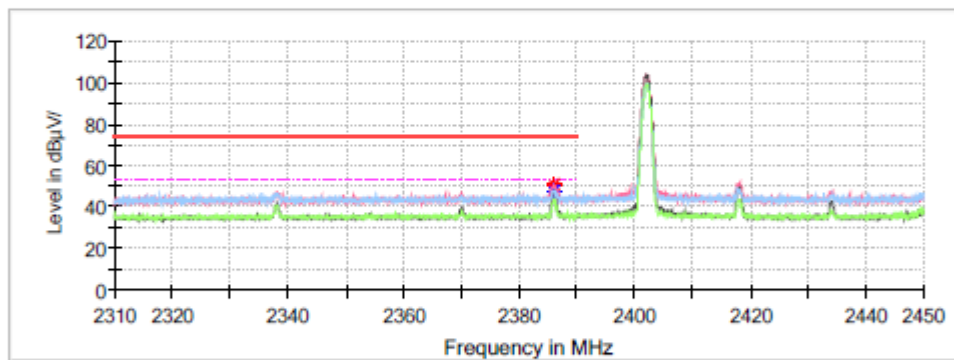
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
11864.000000	---	44.63	54.00	9.37	V	8.8
11864.000000	54.50	---	74.00	19.50	V	8.8
12976.000000	---	44.02	54.00	9.98	V	8.7
12976.000000	54.12	---	74.00	19.88	V	8.7
14179.200000	---	44.51	54.00	9.49	H	10.8
14179.200000	54.96	---	74.00	19.04	H	10.8
17024.000000	51.47	---	74.00	22.53	V	9.6
17024.000000	---	44.90	54.00	9.10	V	9.6
17579.200000	52.66	---	74.00	21.34	V	11.3
17579.200000	---	45.68	54.00	8.32	V	11.3
17985.600000	55.13	---	74.00	18.87	H	13.7
17985.600000	---	47.19	54.00	6.81	H	13.7

Band Edge:**Low Channel****Common Information**

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

Full Spectrum

**Critical Freqs**

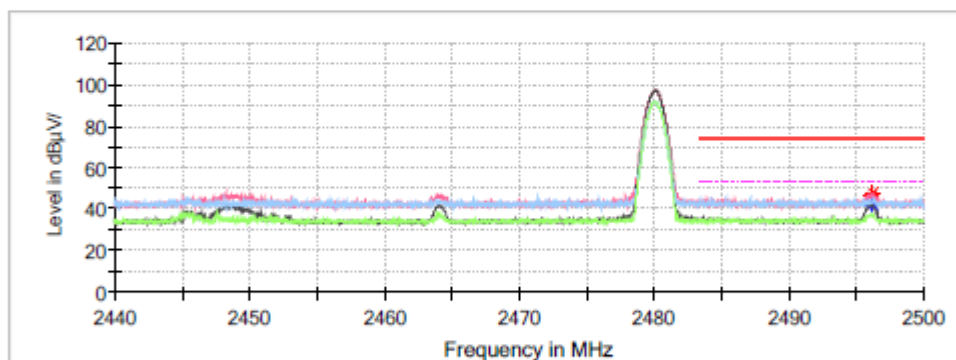
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.020000	---	47.87	54.00	6.13	V	-0.6
2386.020000	50.57	---	74.00	23.43	V	-0.6
2386.104000	---	47.70	54.00	6.30	V	-0.6
2386.104000	50.93	---	74.00	23.07	V	-0.6

High Channel

Common Information

Project No.: RKSA260730001
EUT Model: S150Max
Test Mode: Transmitting in BLE-1M 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: 24.8℃
Humidity: 45%
Atmospheric Pressure: 102.2kPa
Test Engineer: Destine Hu
Check by: Jenny Yang
Test Date: 2026/9/12

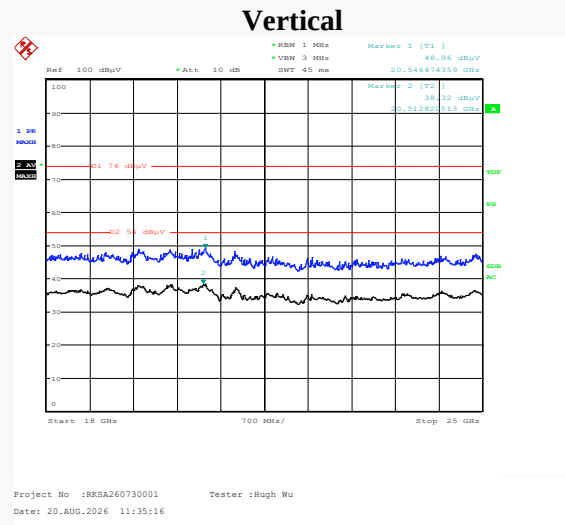
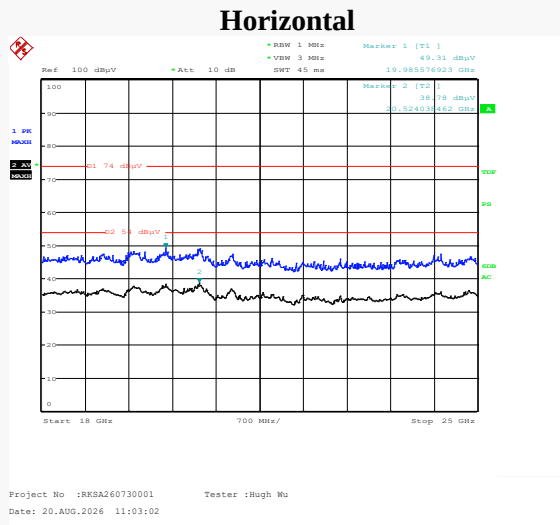
Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2496.148000	---	42.55	54.00	11.45	V	-0.3
2496.148000	45.92	---	74.00	28.08	V	-0.3
2496.220000	---	41.59	54.00	12.41	V	-0.3
2496.220000	48.06	---	74.00	25.94	V	-0.3

18GHz-25GHz: Transmitting in maximum output power mode and BLE 1M high channel



Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.51	---	38.32	54	15.68	V	12.74
20.55	48.96	---	74	25.04	V	12.77
20.52	---	38.78	54	15.22	H	12.75
19.99	49.31	---	74	24.69	H	12.24

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

6 dB EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2026-08-17 to 2026-09-14
Temperature:	24-25 °C
Relative Humidity:	47-50 %
ATM Pressure:	101.8-102.4 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.*EUT operation mode: Transmitting***For Wi-Fi Mode:**

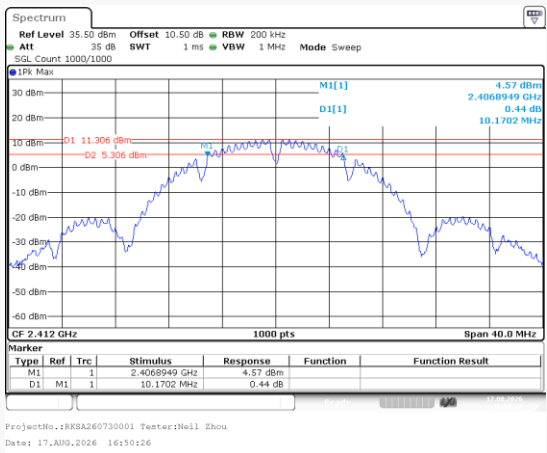
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)	Result
802.11b Mode				
Low	2412	10.170	≥ 0.5	Pass
Middle	2437	10.170	≥ 0.5	Pass
High	2462	10.170	≥ 0.5	Pass
802.11g Mode				
Low	2412	16.537	≥ 0.5	Pass
Middle	2437	16.497	≥ 0.5	Pass
High	2462	16.497	≥ 0.5	Pass
802.11n-HT20 Mode				
Low	2412	17.738	≥ 0.5	Pass
Middle	2437	17.738	≥ 0.5	Pass
High	2462	17.738	≥ 0.5	Pass

For BLE Mode:

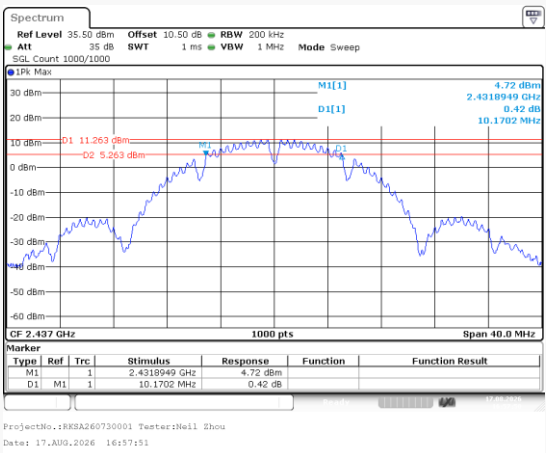
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)	Result
BLE (1 Mbps)	Low	2402	1.241	≥ 0.5	Pass
	Middle	2440	1.285	≥ 0.5	Pass
	High	2480	1.233	≥ 0.5	Pass

For Wi-Fi Mode:

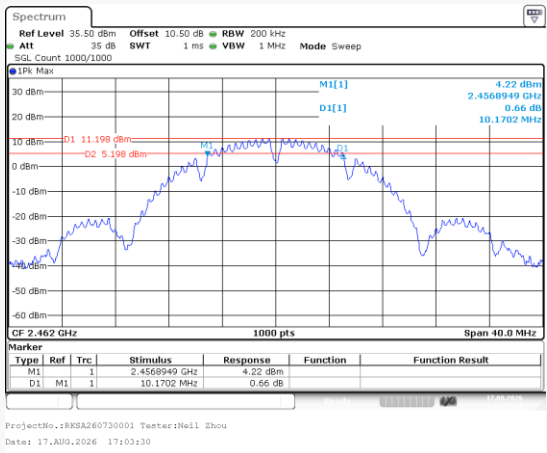
802.11b_2412MHz



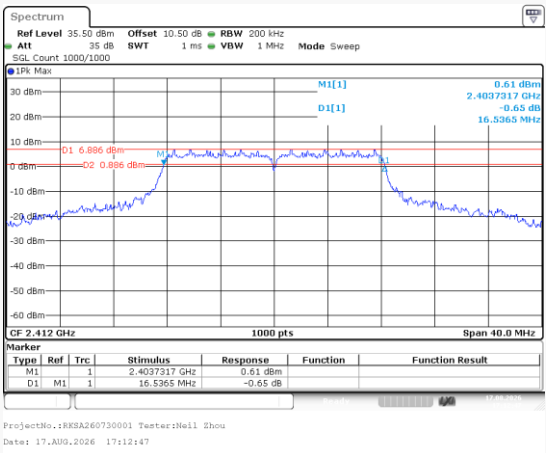
802.11b_2437MHz



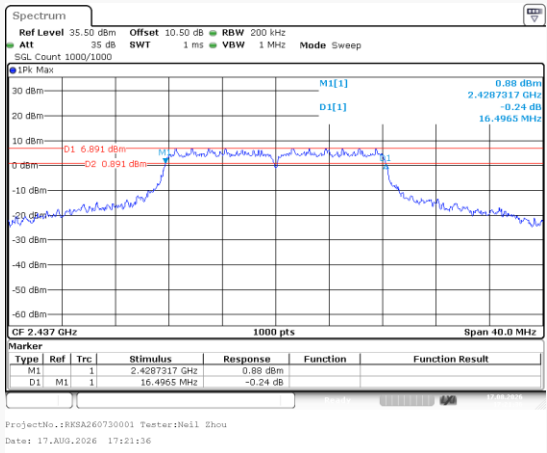
802.11b_2462MHz



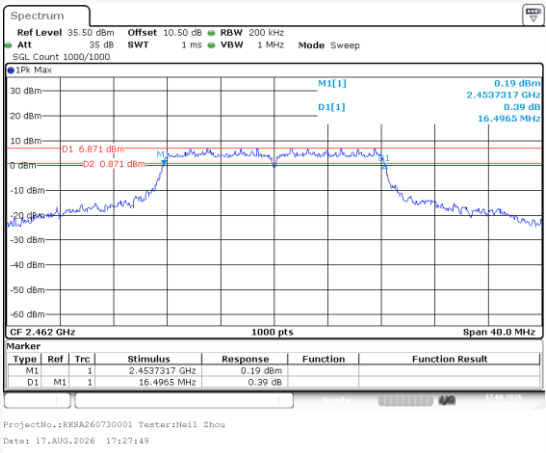
802.11g_2412MHz



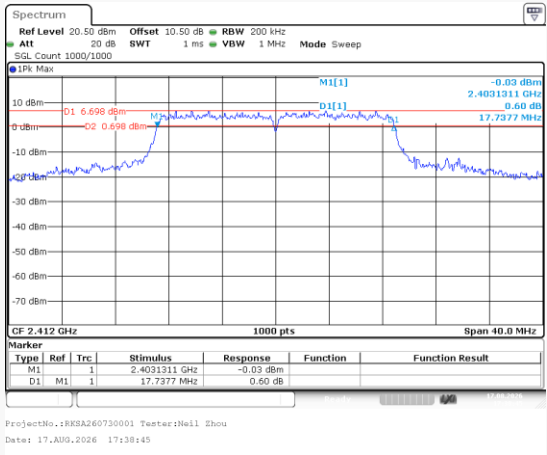
802.11g_2437MHz



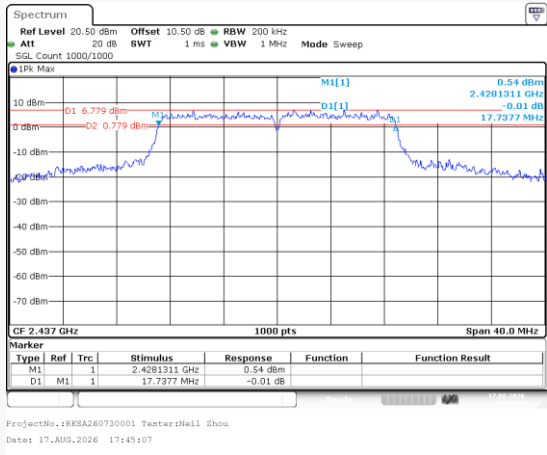
802.11g_2462MHz



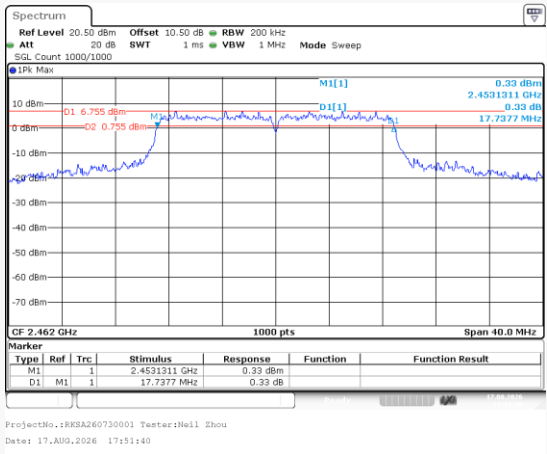
802.11n20_2412MHz



802.11n20_2437MHz

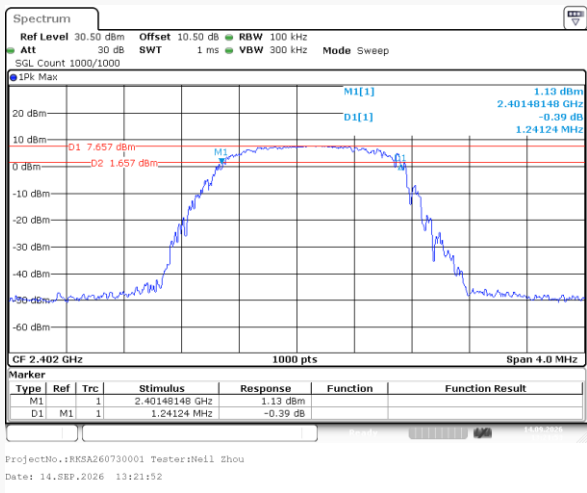


802.11n20_2462MHz

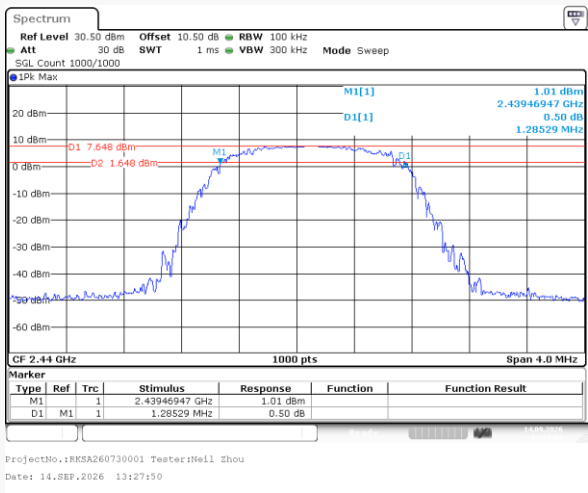


For BLE Mode:
BLE (1 Mbps)

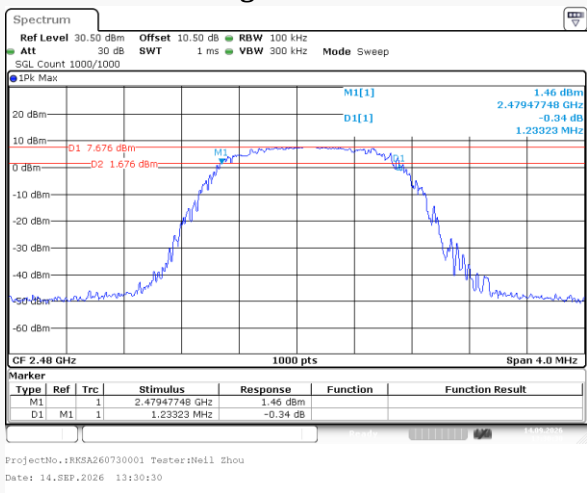
Low Channel



Middle Channel



High Channel



MAXIMUM CONDUCTED OUTPUT POWER**Environmental Conditions & Test Information**

Test Date:	2026-09-14
Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	102.4 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.*EUT operation mode: Transmitting***For Wi-Fi Mode:**

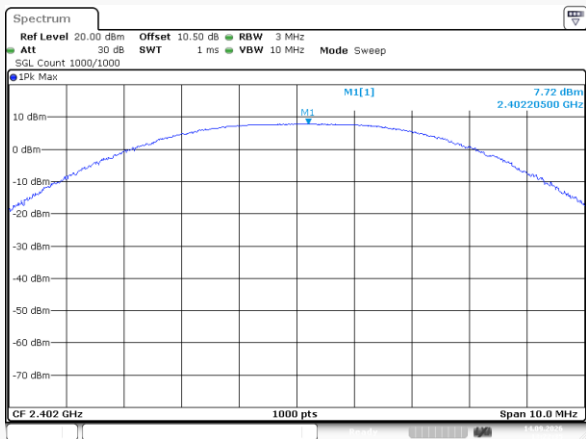
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power Limit (dBm)
802.11b Mode			
Low	2412	19.565	≤30
Middle	2437	19.568	≤30
High	2462	19.513	≤30
802.11g Mode			
Low	2412	20.507	≤30
Middle	2437	20.495	≤30
High	2462	20.407	≤30
802.11n-HT20 Mode			
Low	2412	20.486	≤30
Middle	2437	20.431	≤30
High	2462	20.338	≤30

BLE Mode:

Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (1 Mbps)	Low	2402	7.72	≤30	Pass
	Middle	2440	7.72	≤30	Pass
	High	2480	7.77	≤30	Pass

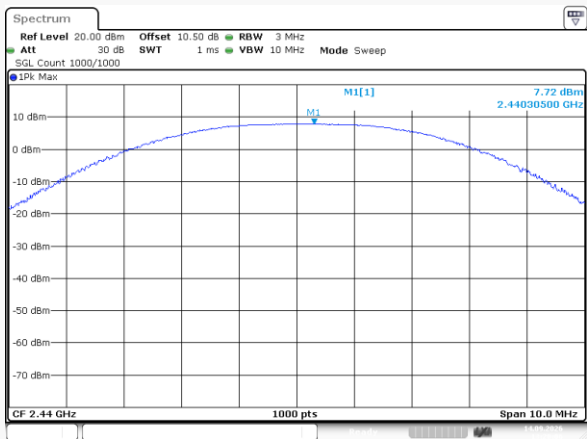
BLE (1 Mbps)

Low Channel



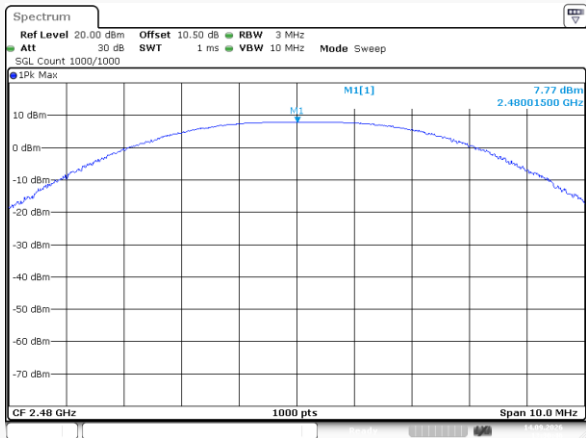
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 14.SEP.2026 13:22:35

Middle Channel



ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 14.SEP.2026 13:28:06

High Channel



ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 14.SEP.2026 13:30:46

100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE**Environmental Conditions & Test Information**

Test Date:	2026-08-17 to 2026-09-14
Temperature:	24-25 °C
Relative Humidity:	47-50 %
ATM Pressure:	101.8-102.4 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

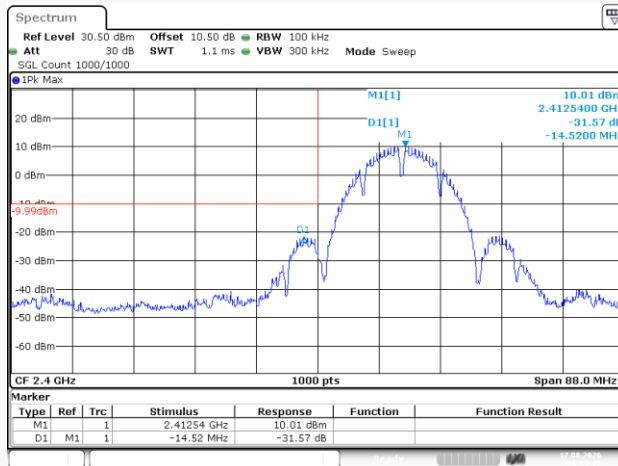
*EUT operation mode: Transmitting***Test Result:** Compliant

Mode	Channel	Test Frequency (MHz)	Result (dB)	Limit (dB)
802.11b	Low	2412	31.57	20
	High	2462	52.24	20
802.11g	Low	2412	23.97	20
	High	2462	34.73	20
802.11n20	Low	2412	23.29	20
	High	2462	32.48	20

Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)
BLE (1 Mbps)	Low	2402	54.42	20
	High	2480	54.61	20

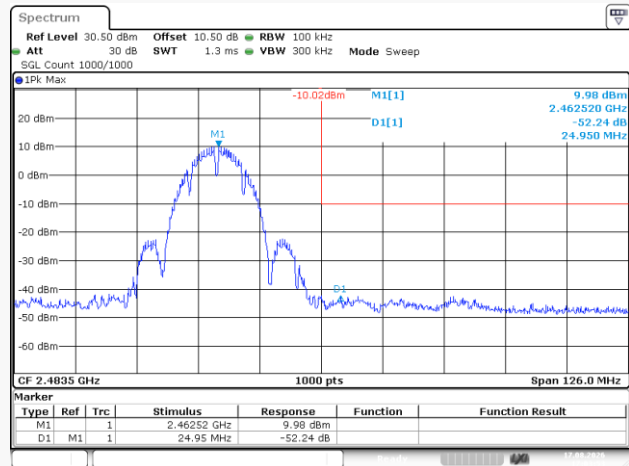
For Wi-Fi Mode:

802.11b Mode Left Side



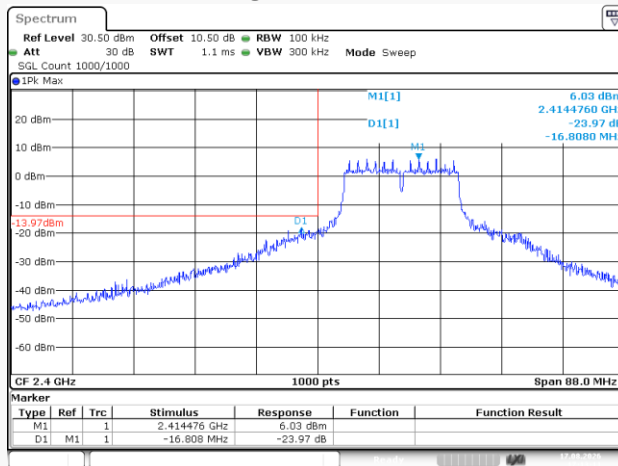
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 16:51:12

802.11b Mode Right Side



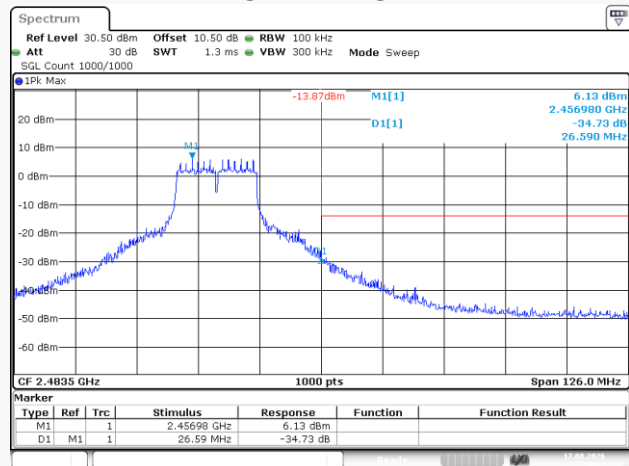
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 17:03:54

802.11g Mode Left Side



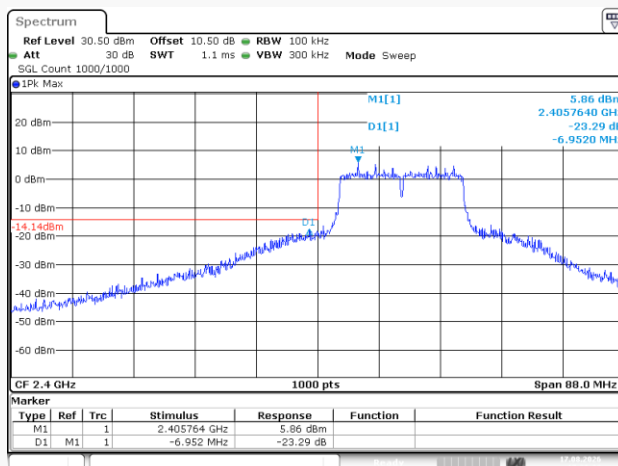
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 17:13:11

802.11g Mode Right Side



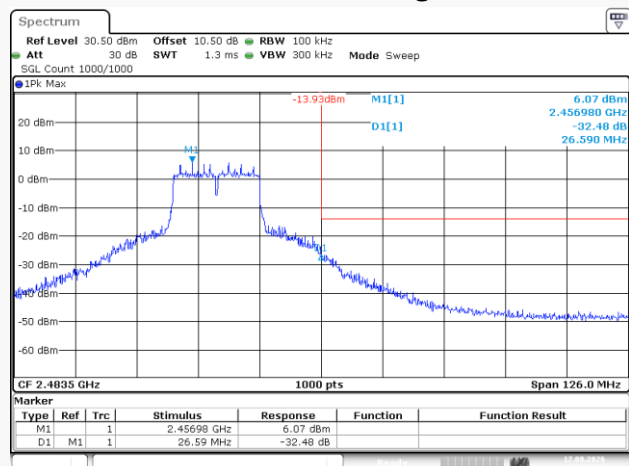
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 17:28:12

802.11n-HT20 Mode Left Side



ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 17:39:08

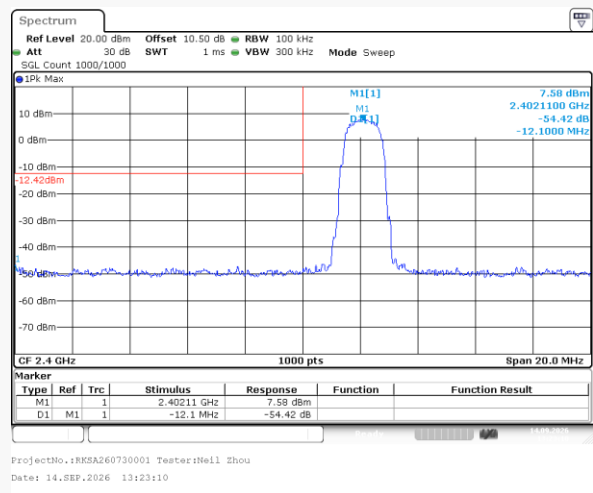
802.11n-HT20 Mode Right Side



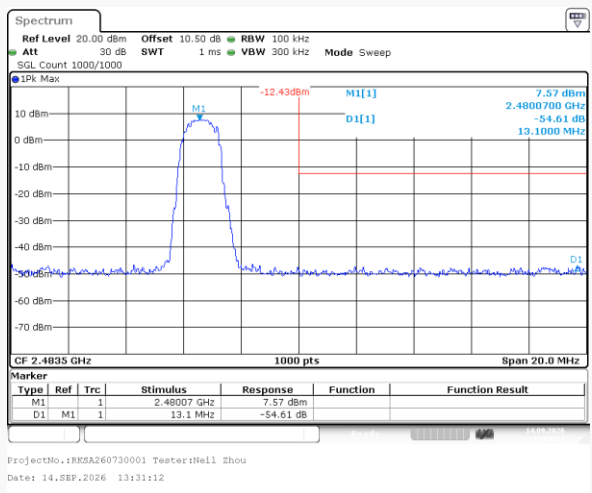
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 17.AUG.2026 17:52:03

For BLE Mode:
BLE (1 Mbps)

Left Side



Right Side



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

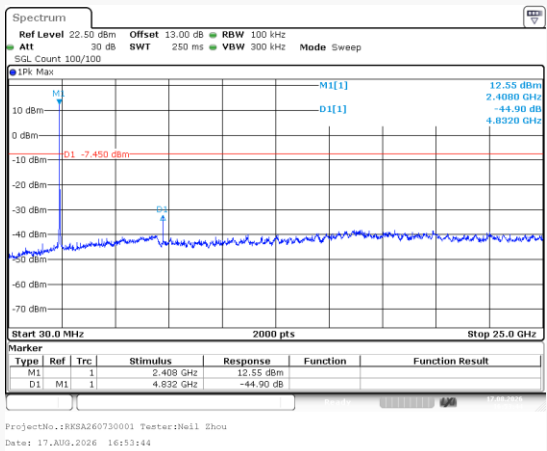
Test Date:	2026-08-17 to 2026-08-18
Temperature:	24-26 °C
Relative Humidity:	47-51 %
ATM Pressure:	101.8-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)
802.11b	Low	2412	44.90	20
	Middle	2437	47.65	20
	High	2462	49.09	20
802.11g	Low	2412	42.75	20
	Middle	2437	44.71	20
	High	2462	46.29	20
802.11n20	Low	2412	46.48	20
	Middle	2437	43.86	20
	High	2462	42.86	20

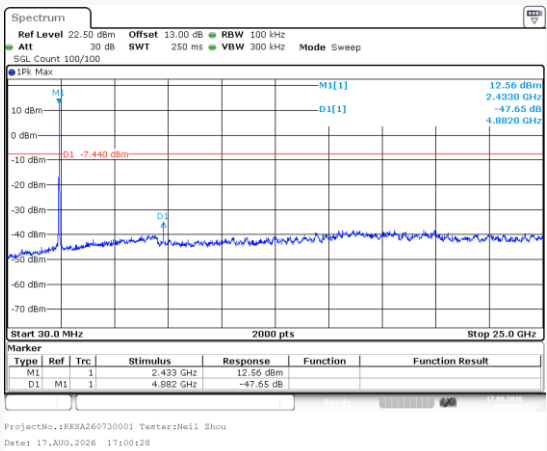
Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)
BLE (1 Mbps)	Low	2402	23.06	20
	Middle	2440	23.71	20
	High	2480	24.36	20

Note: the maximum path attenuation of 30MHz~25GHz was added into the offset
For Wi-Fi Mode:

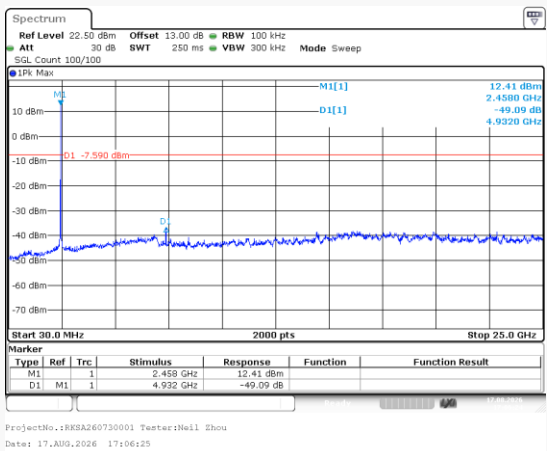
802.11b_2412MHz



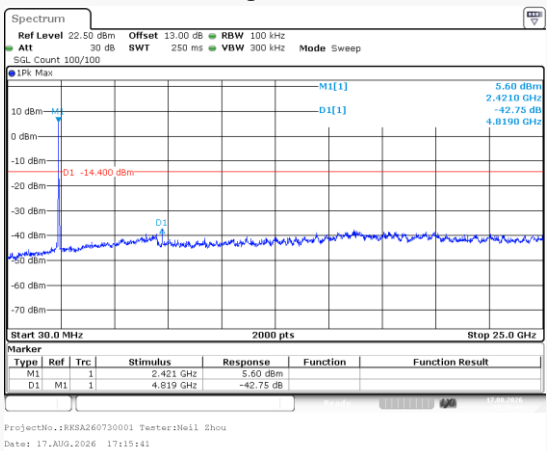
802.11b_2437MHz



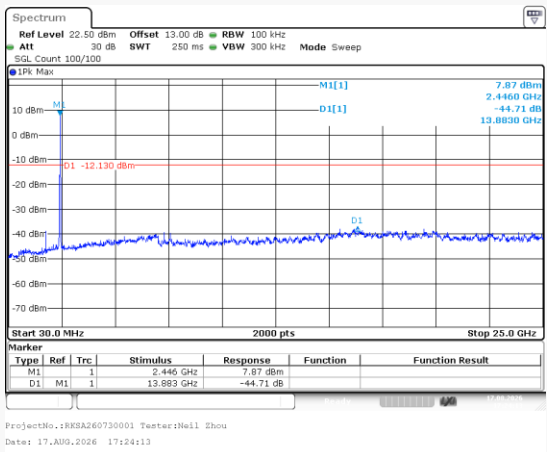
802.11b_2462MHz



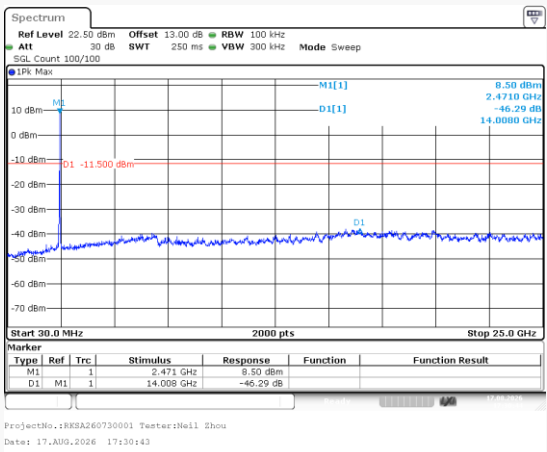
802.11g_2412MHz



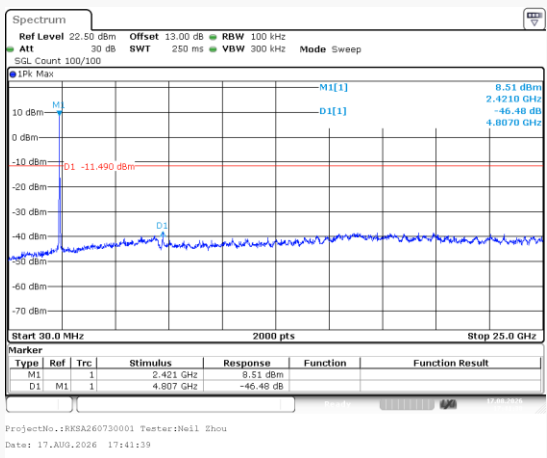
802.11g_2437MHz



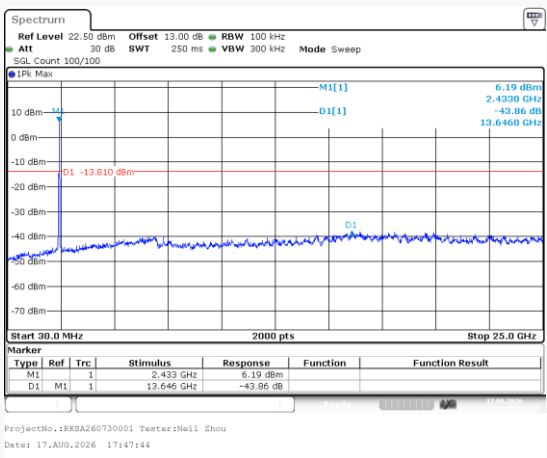
802.11g_2462MHz



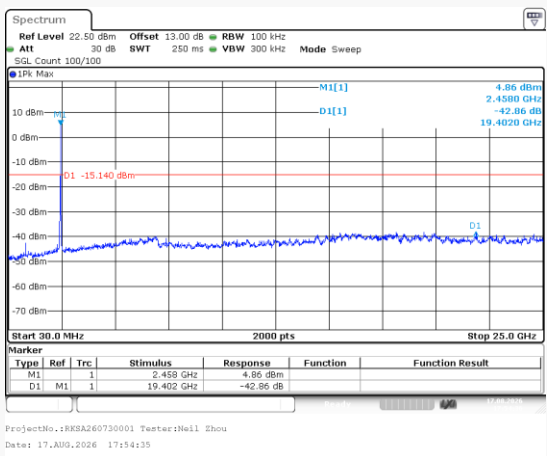
802.11n20_2412MHz



802.11n20_2437MHz

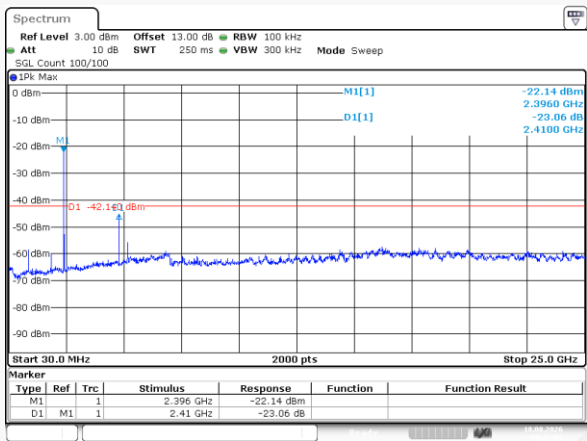


802.11n20_2462MHz



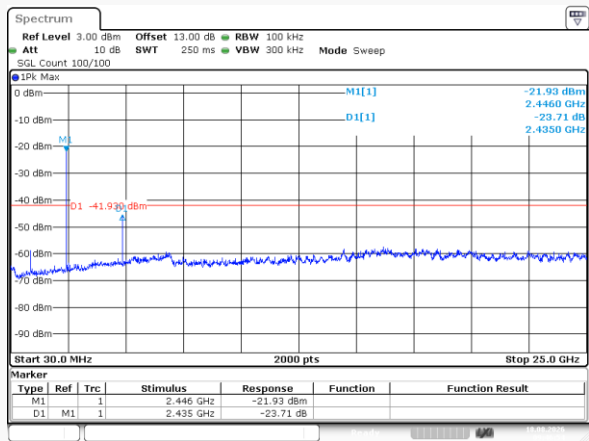
For BLE Mode:
BLE (1 Mbps)

Low Channel



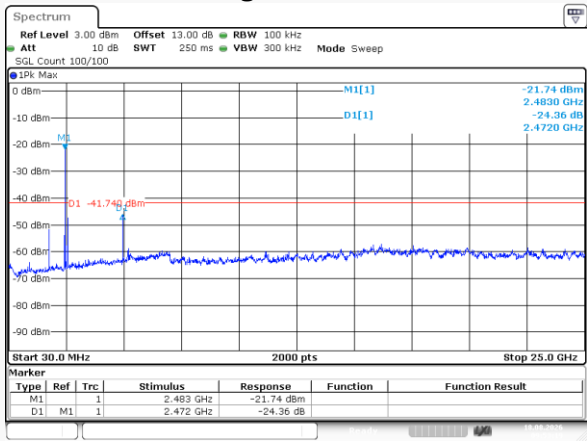
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 18.AUG.2026 09:13:58

Middle Channel



ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 18.AUG.2026 09:46:54

High Channel



ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 18.AUG.2026 09:15:19

POWER SPECTRAL DENSITY**Environmental Conditions & Test Information**

Test Date:	2026-08-17 to 2026-09-14
Temperature:	24-25 °C
Relative Humidity:	47-50 %
ATM Pressure:	101.8-102.4 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.*EUT operation mode: Transmitting***For Wi-Fi Mode:**

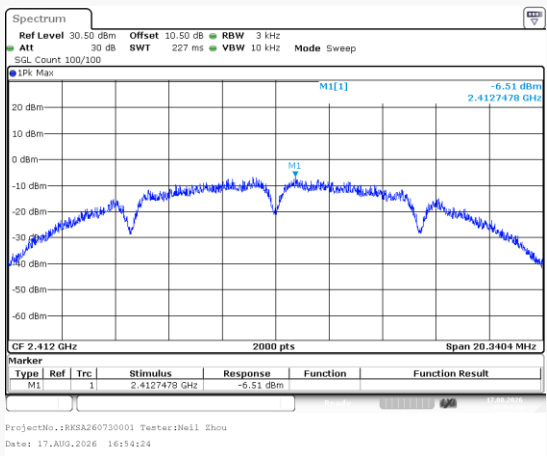
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b Mode				
Low	2412	-6.51	≤8	Pass
Middle	2437	-6.52	≤8	Pass
High	2462	-7.00	≤8	Pass
802.11g Mode				
Low	2412	-9.82	≤8	Pass
Middle	2437	-9.57	≤8	Pass
High	2462	-10.67	≤8	Pass
802.11n-HT20 Mode				
Low	2412	-9.52	≤8	Pass
Middle	2437	-9.50	≤8	Pass
High	2462	-10.83	≤8	Pass

For BLE Mode:

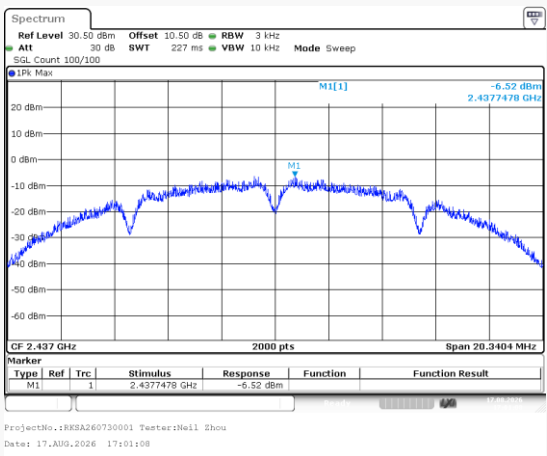
Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE (1 Mbps)	Low	2402	-2.07	≤8	Pass
	Middle	2440	-1.48	≤8	Pass
	High	2480	-1.91	≤8	Pass

For Wi-Fi Mode:

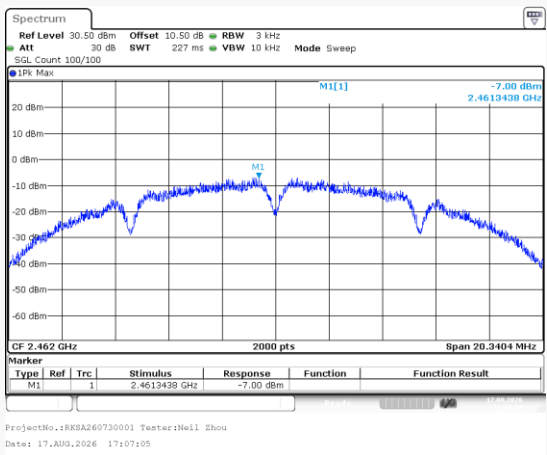
802.11b_2412MHz



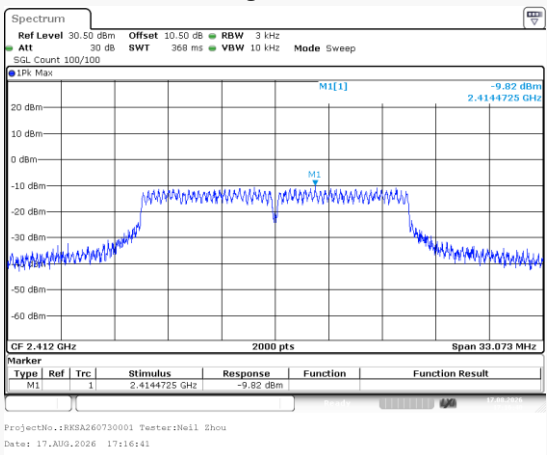
802.11b_2437MHz



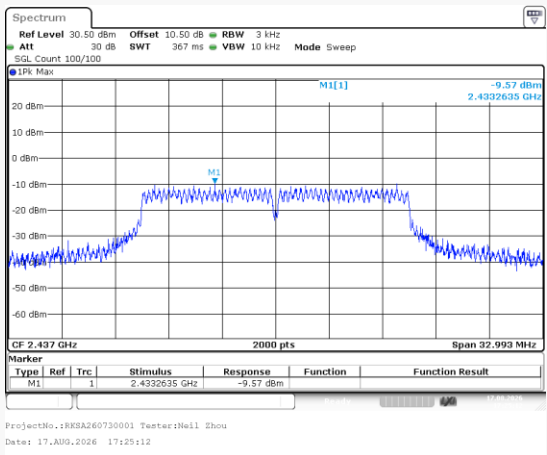
802.11b_2462MHz



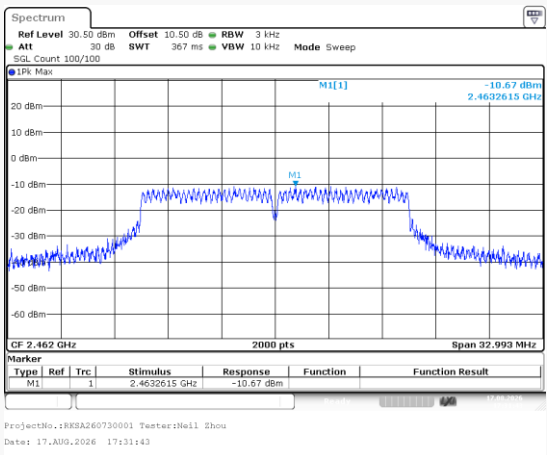
802.11g_2412MHz



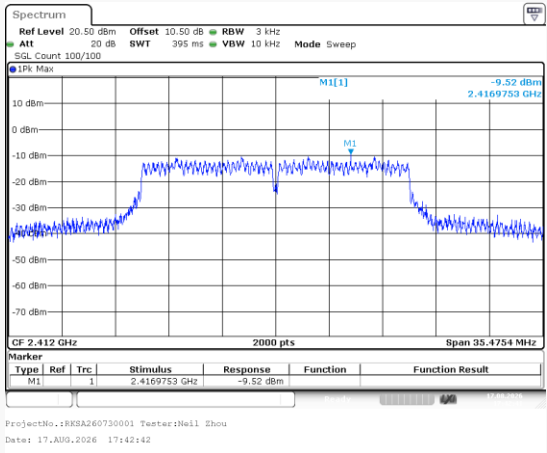
802.11g_2437MHz



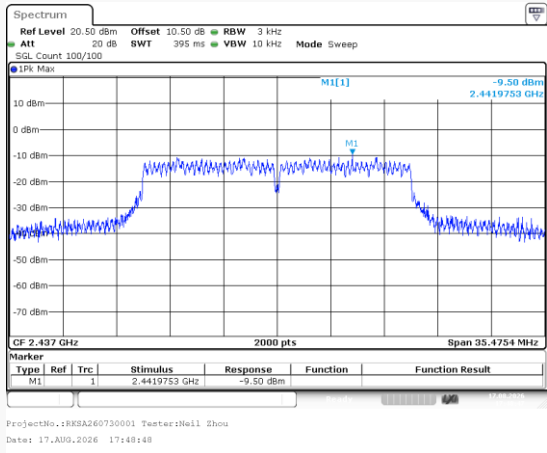
802.11g_2462MHz



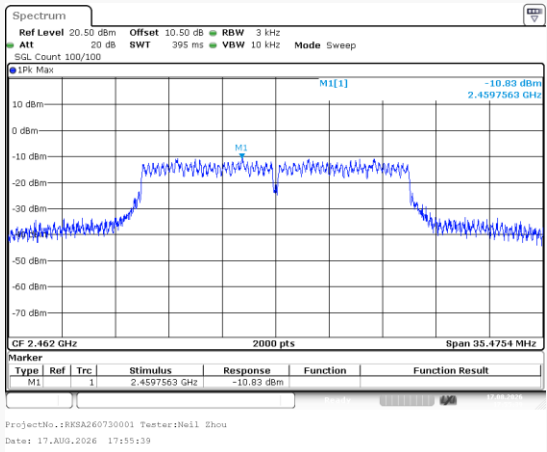
802.11n20_2412MHz



802.11n20_2437MHz

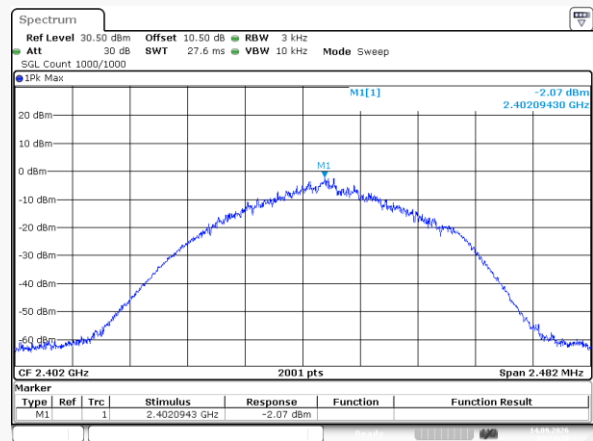


802.11n20_2462MHz



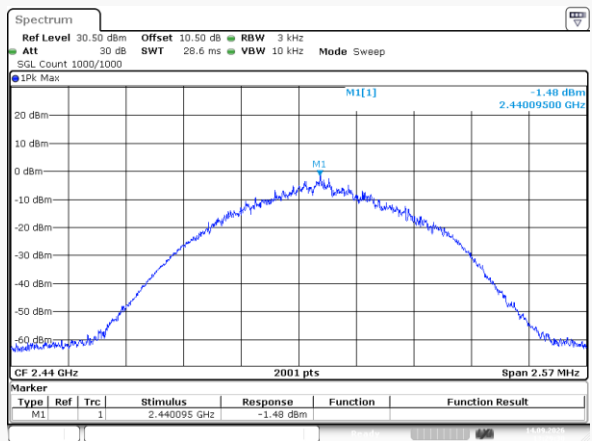
For BLE Mode:
BLE (1 Mbps)

Low Channel



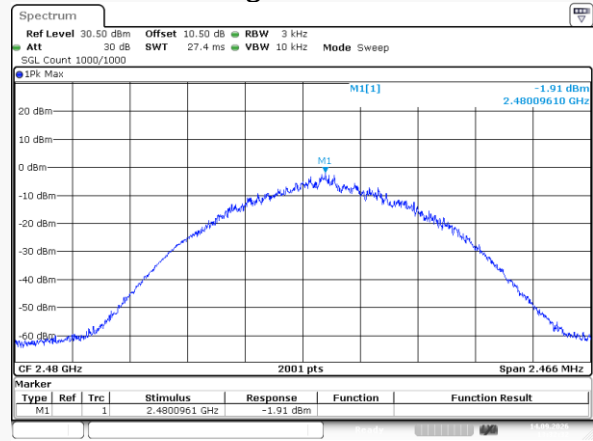
ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 14.SEP.2026 13:24:30

Middle Channel



ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 14.SEP.2026 13:29:30

High Channel



ProjectNo.:RKSA260730001 Tester:Neil Zhou
Date: 14.SEP.2026 13:32:31

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 standards and test items that are not covered by the accreditation scope and shall be marked with an asterisk “▲”.

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