

FCC PART 15.247

TEST REPORT

For

WISEASY TECHNOLOGY PTE. LTD.

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

FCC ID: 2BFPO-P053

Report Type: Original Report	Product Name: EMV Android POS
Report Number: RKSA250707003-00B	
Report Date: 2025-08-19	
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Approved By:	Kyle Xu 
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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.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA250707003-00B	R1V1	2025-08-19	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	WISEASY TECHNOLOGY PTE. LTD.
Tested Model	P053
Product Name	EMV Android POS
Power Supply	DC 7.4V from battery or DC 5V charging by adapter
RF Function:	2.4G Wi-Fi; BLE
Operating Band/Frequency:	2.4G Wi-Fi: 2412~2462 MHz(802.11b/g/n20), 2422~2452 MHz(802.11n40) BLE(1 Mbps): 2402-2480 MHz
Maximum Peak Output Power:	2.4G Wi-Fi: 802.11b: 19.23 dBm 802.11g: 14.82 dBm 802.11n20: 14.72 dBm 802.11n40: 14.94 dBm BLE(1 Mbps): 5.70 dBm
Channel Number:	2.4G Wi-Fi: 11(802.11b/g/n20), 7(802.11n40) BLE(1Mbps): 40
Channel Separation:	2.4G Wi-Fi: 5 MHz BLE: 2 MHz
Modulation Type:	2.4G Wi-Fi: DSSS, OFDM BLE: GFSK
★Maximum Antenna Gain:	0.84 dBi

Adapter Information:

Model: TPA-418G050200UU01

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

Output: 5.0V, 2.0A 10.0W

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

All measurement and test data in this report was gathered from production sample serial number: RKSA250707003-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-07-07.)

Objective

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

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

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for 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 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 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 and 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11.

For 802.11n-HT40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test software: QRCT3.0

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

Mode	Data rate	Power Level*		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	18	18	18
802.11g	6Mbps	14	14	13
802.11n-HT20	MCS0	13	13	13
802.11n-HT40	MCS0	11	11	11
BLE(1Mbps)	1Mbps	Default		

Note: The power level was declared by the applicant.

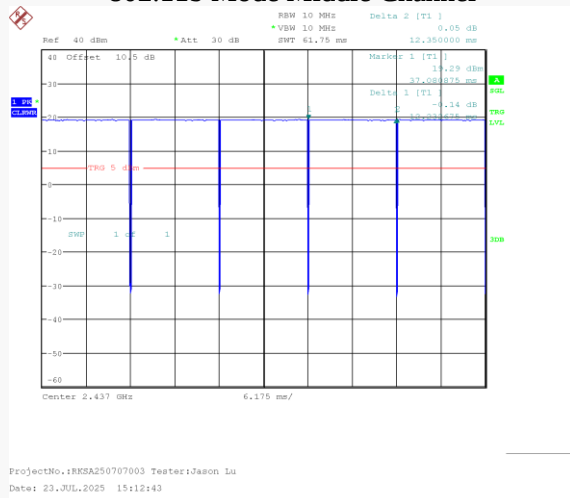
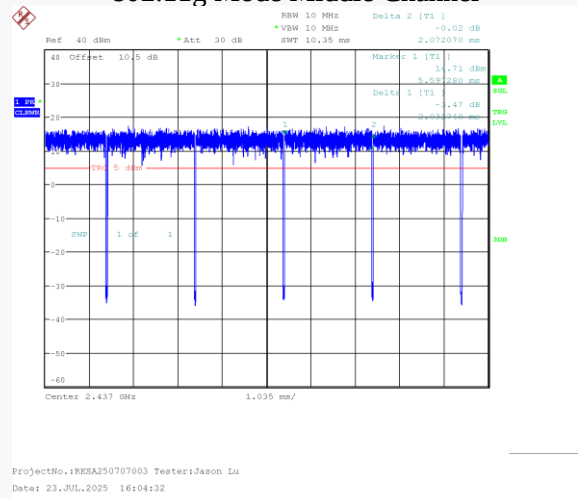
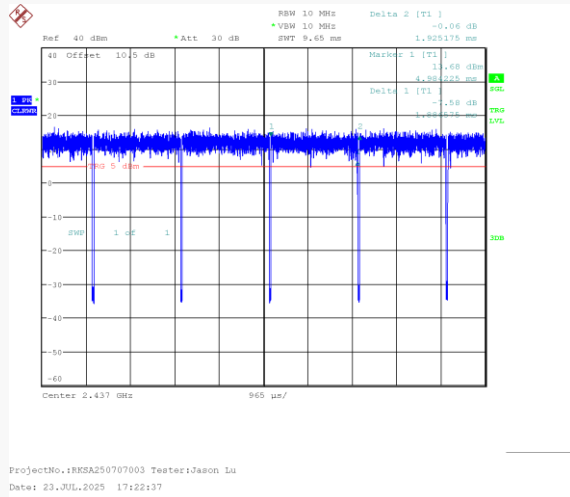
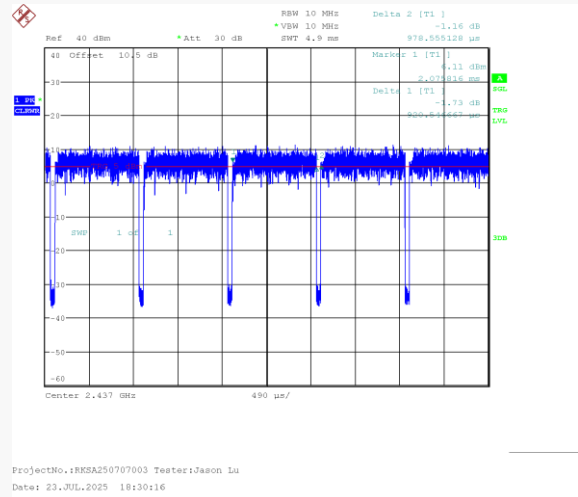
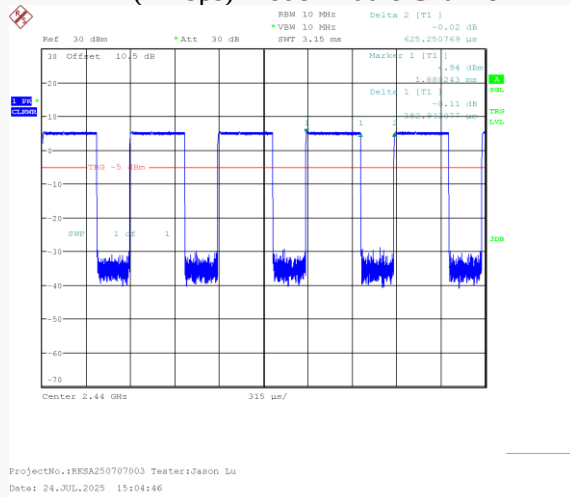
Environmental Conditions & Test Information

Test Date:	2025-07-23 to 2025-07-24
Temperature:	24.5-24.7 °C
Relative Humidity:	52-54 %
ATM Pressure:	100.6-101.5kPa
Test Result:	Pass
Test Engineer:	Jason Lu

Mode	Duty Cycle (%)	Ton(ms)	Ton+off(ms)	10log(1/x) (dB)
802.11b	99.05	12.233	12.350	/
802.11g	98.12	2.033	2.072	/
802.11n-HT20	98.03	1.887	1.925	/
802.11n-HT40	94.08	0.921	0.979	0.27
BLE(1Mbps)	61.28	0.383	0.625	2.13

Note:

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

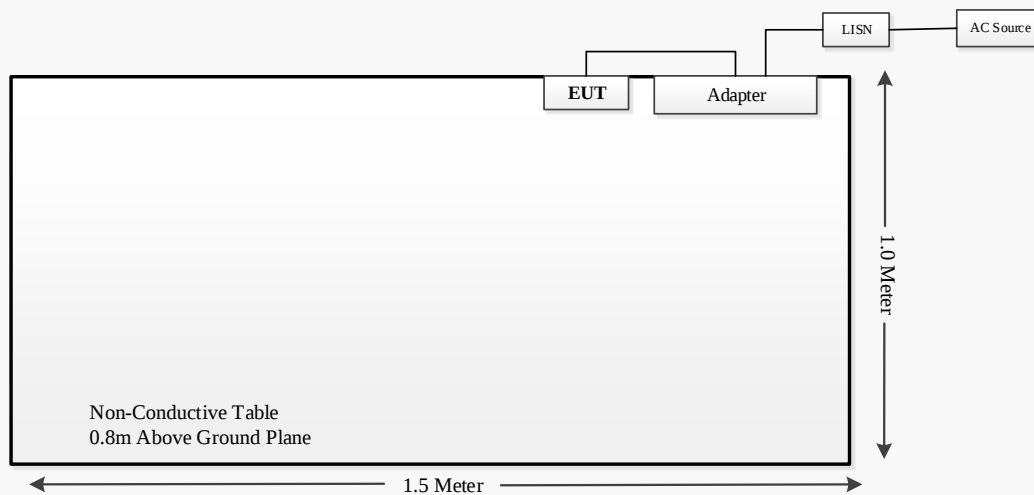
Duty Cycle:**802.11b Mode Middle Channel****802.11g Mode Middle Channel****802.11n-HT20 Mode Middle Channel****802.11n-HT40 Mode Middle Channel****BLE(1Mbps) Mode Middle Channel**

Support Equipment List and Details

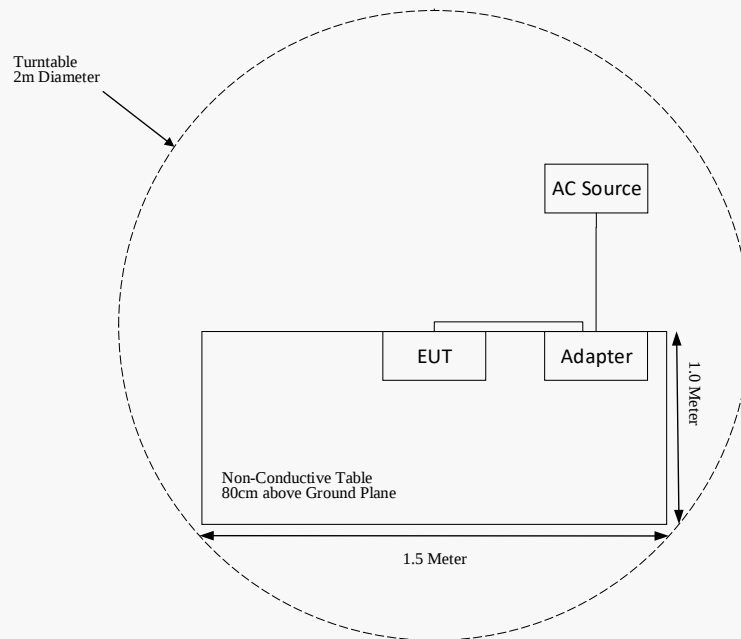
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

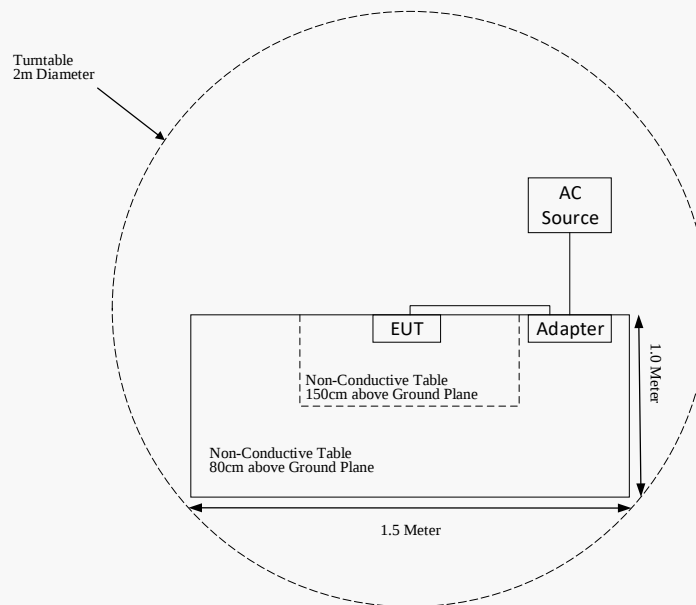
Cable Description	Length (m)	From Port	To Port
Power Cable	1.5	AC Source/LISN	Adapter
USB cable	1.0	Adapter	EUT

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

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)(1)& §2.1093	RF EXPOSURE	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	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(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-12-02	2025-12-01
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
SELECTOR	Amplifier	EM18G40G	060726	2025-04-09	2026-04-08
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2024-08-05	2025-08-04
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Anritsu	Power Sensor	MA24418A	12621	2025-04-09	2026-04-08

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

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

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

Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f(\text{GHz})}]$
 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

Mode	Frequency Range (MHz)	★Max Tune-up Conducted Power		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
BLE	2402-2480	6.0	3.98	5.0	1.3	3.0	Yes

Note:

1. For the above tune up power were declared by the manufacturer.
2. For 2.4G Wi-Fi, please reference report RKSA250707003-20B.

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

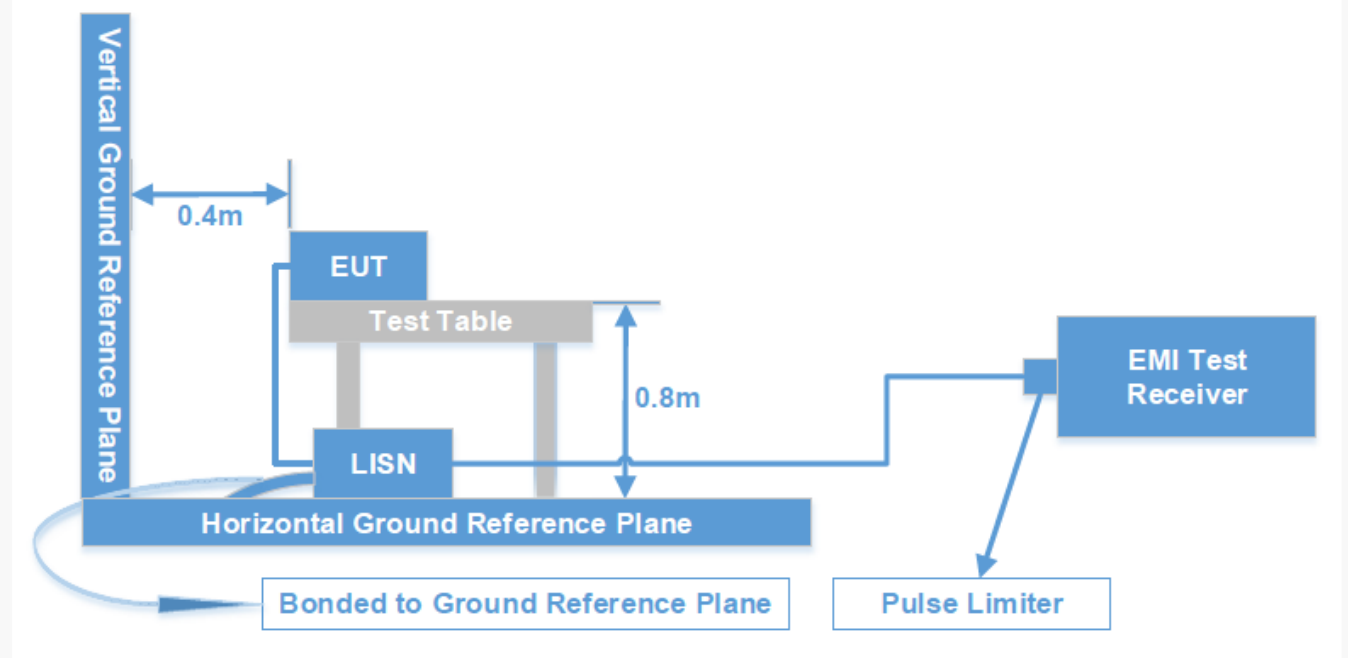
Result: Compliant.

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

Test Procedure

ANSI C63.10-2020 clause 6.2

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

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

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

Level & Over Limit Calculation

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

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Level (dBμV) = Read level (dBμV) + Factor (dB)

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

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

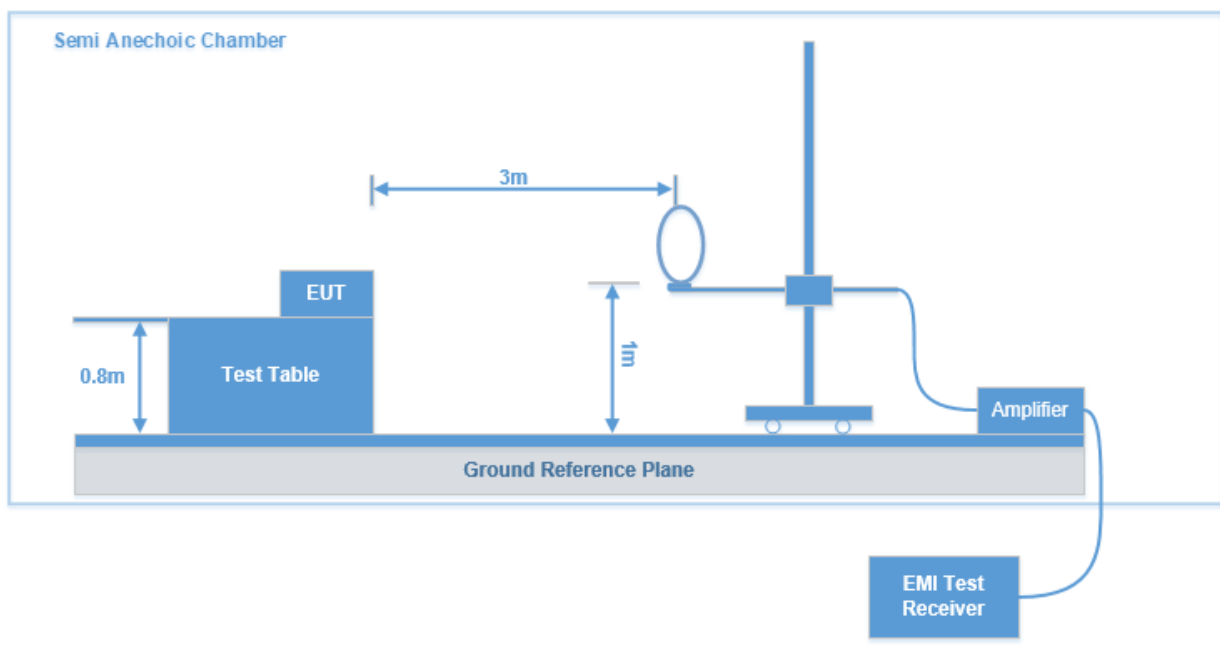
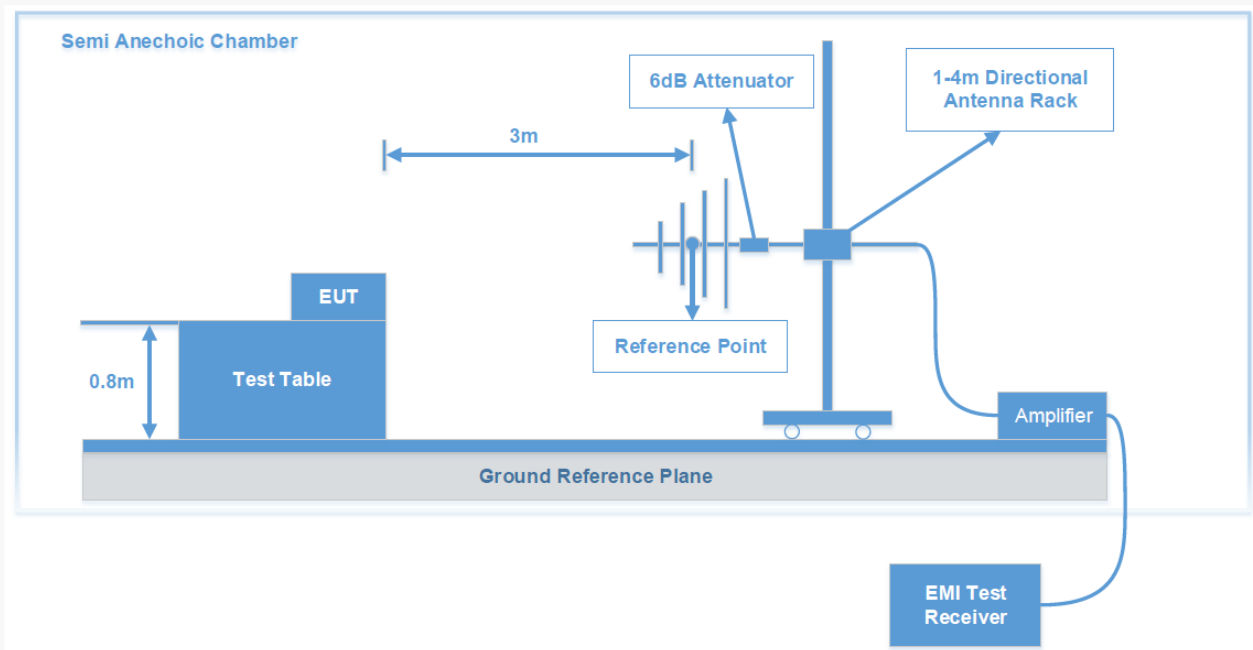
Test Results Summary

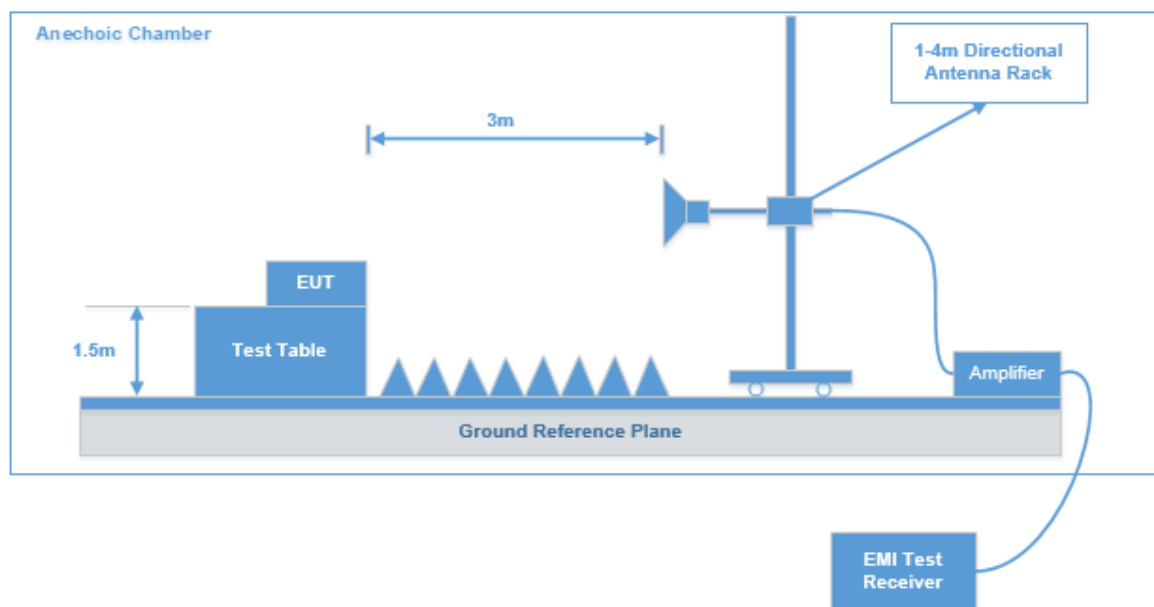
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

FCC §15.209, §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
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz - 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	/	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

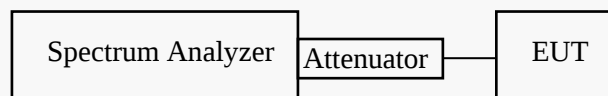
Applicable Standard

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

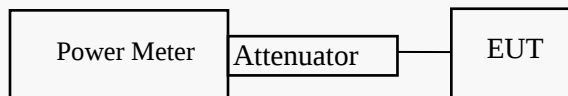
For 2.4G Wi-Fi:

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

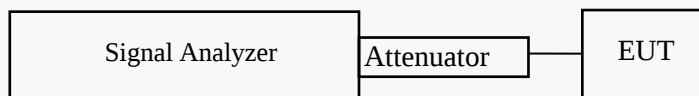
Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. 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

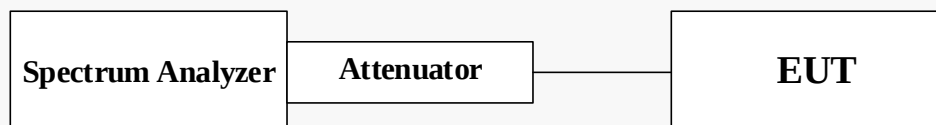
Applicable Standard

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)

Test Data: See Appendix

FCC §15.247(E) - POWER SPECTRAL DENSITY

Applicable Standard

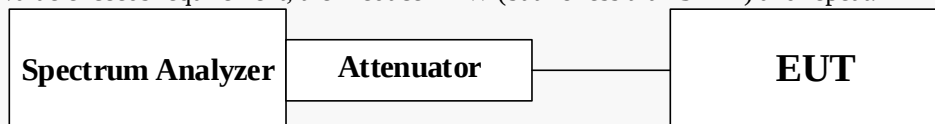
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of 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)

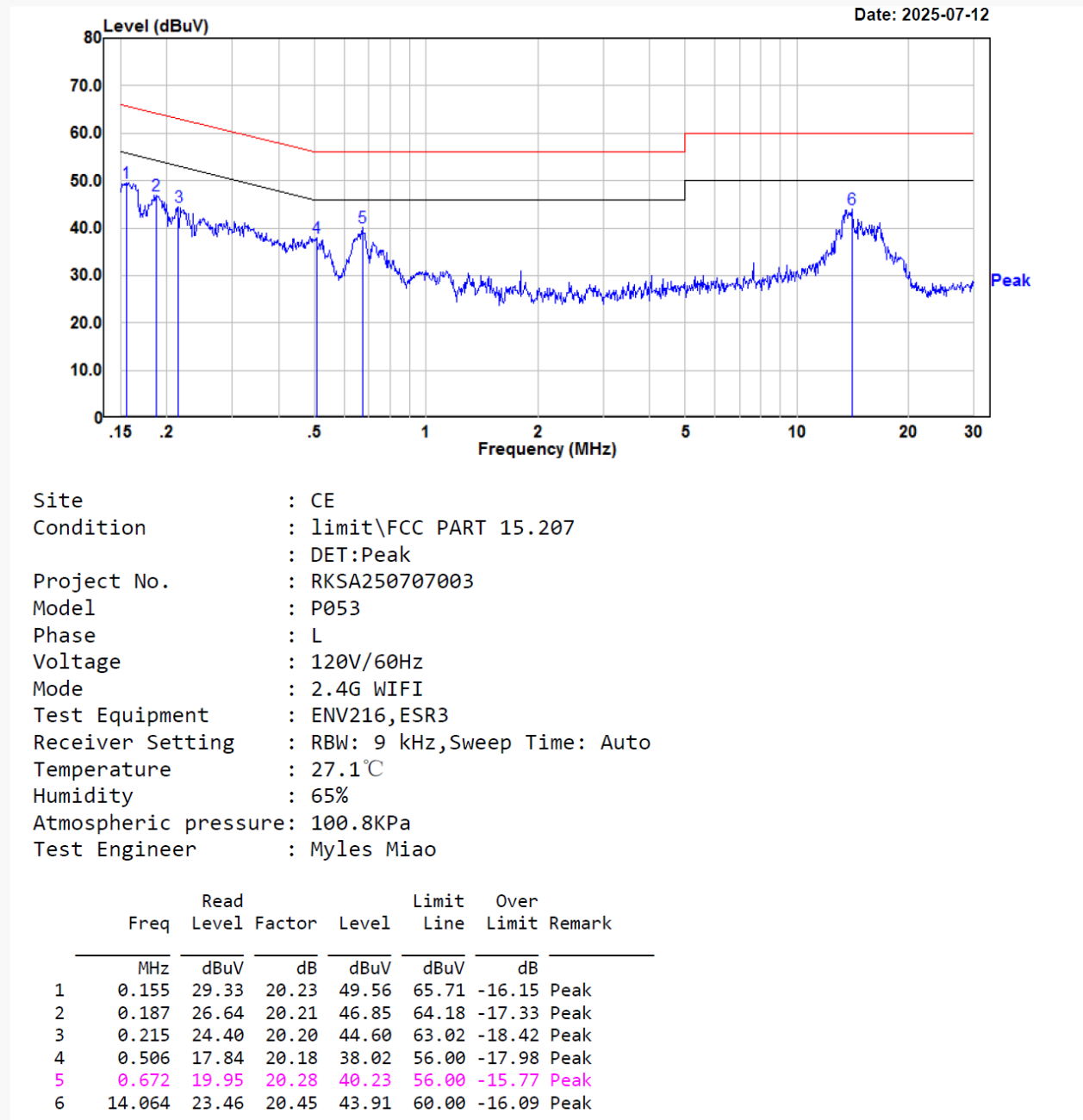
Test Data: See Appendix

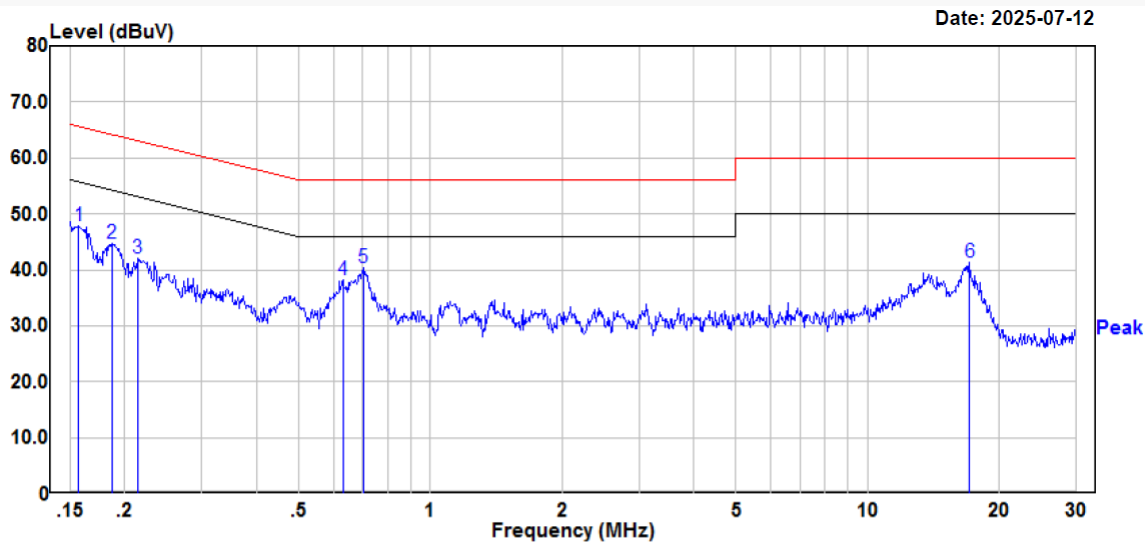
APPENDIX - TEST DATA

AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

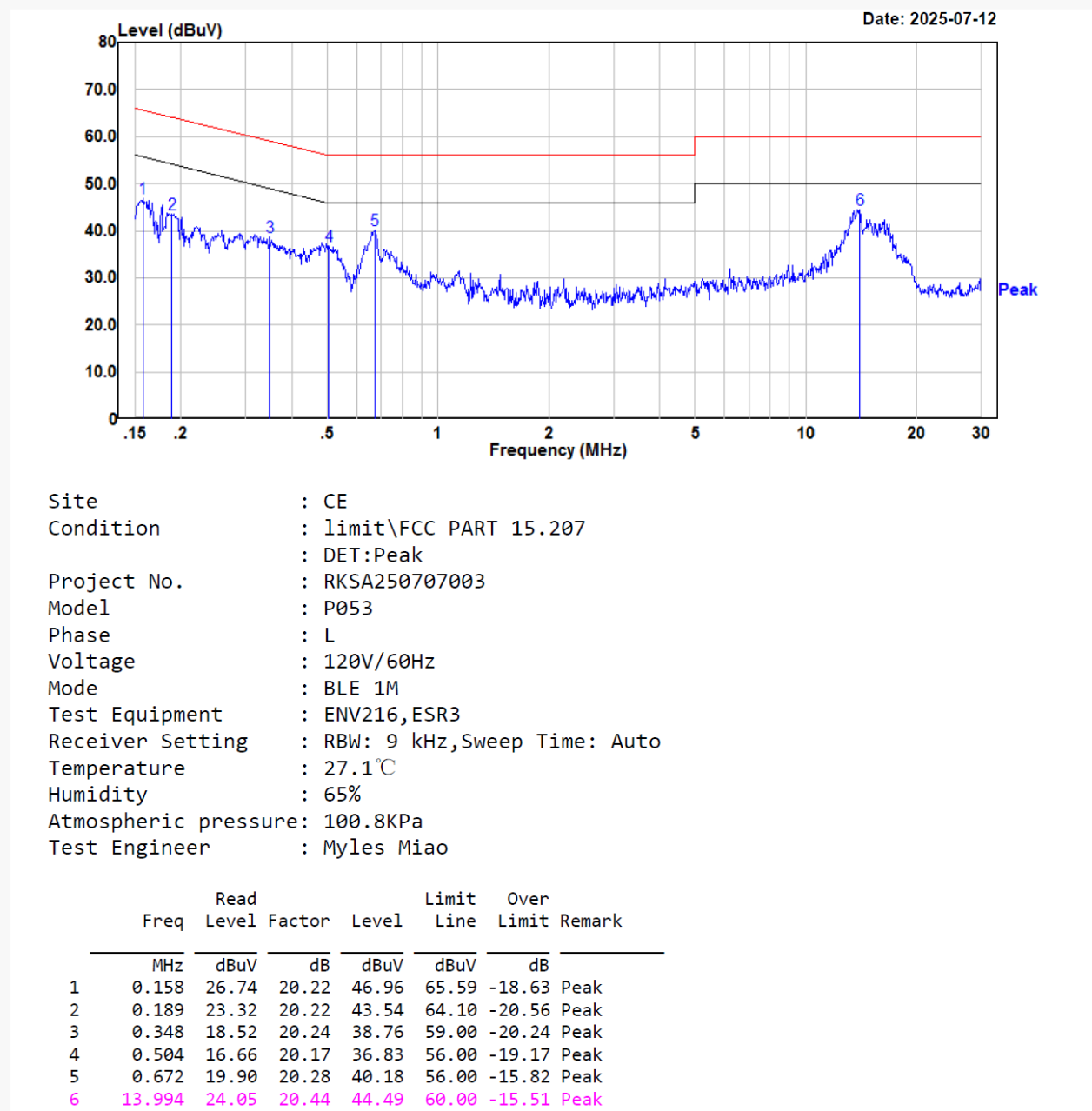
Test Date:	2025-07-12
Temperature:	27.1 °C
Relative Humidity:	65 %
ATM Pressure:	100.8 kPa
Test Result:	Pass
Test Engineer:	Myles Miao

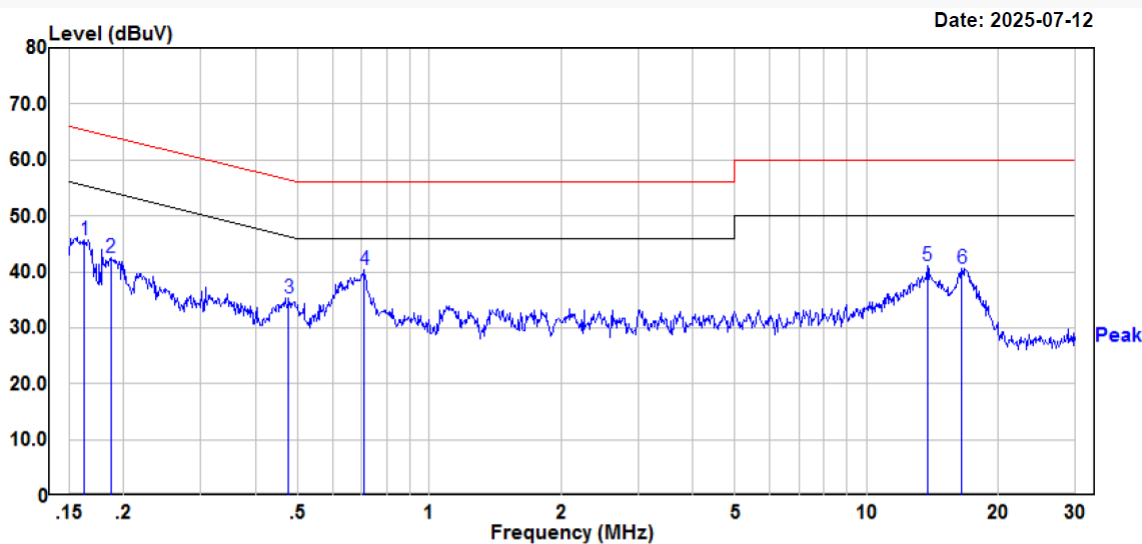
For Wi-Fi Mode:*EUT operation mode: Transmitting in maximum output power mode and 802.11b mode high channel*



Site : CE
Condition : limit\FCC PART 15.207
Project No. : RKSA250707003
Model : P053
Phase : N
Voltage : 120V/60Hz
Mode : 2.4G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 27.1°C
Humidity : 65%
Atmospheric pressure: 100.8KPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.157	27.60	20.23	47.83	65.63	-17.80	Peak
2	0.187	24.45	20.21	44.66	64.18	-19.52	Peak
3	0.214	21.93	20.20	42.13	63.06	-20.93	Peak
4	0.630	17.84	20.26	38.10	56.00	-17.90	Peak
5	0.703	20.06	20.30	40.36	56.00	-15.64	Peak
6	17.081	20.86	20.55	41.41	60.00	-18.59	Peak

For BLE Mode:*EUT operation mode: Transmitting in BLE (1 Mbps) low channel (maximum output power)*



Site : CE
Condition : limit\FCC PART 15.207
Project No. : RKSA250707003
Model : P053
Phase : N
Voltage : 120V/60Hz
Mode : BLE 1M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 27.1°C
Humidity : 65%
Atmospheric pressure: 100.8KPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.162	25.44	20.22	45.66	65.34	-19.68	Peak
2	0.187	22.44	20.21	42.65	64.18	-21.53	Peak
3	0.477	15.16	20.21	35.37	56.40	-21.03	Peak
4	0.710	20.13	20.29	40.42	56.00	-15.58	Peak
5	13.786	20.63	20.43	41.06	60.00	-18.94	Peak
6	16.495	20.02	20.53	40.55	60.00	-19.45	Peak

SPURIOUS EMISSIONS

Environmental Conditions & Test Information

Test Item:	SPURIOUS EMISSIONS			
	9 kHz-30MHz	30 MHz – 1 GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2025-07-25	2025-07-14	2025-07-14 to 2025-07-17	2025-07-31
Temperature:	25.1 °C	24.3 °C	25.8-26.7 °C	24.7 °C
Relative Humidity:	48%	46%	50-52 %	50 %
ATM Pressure:	101.2 kPa	100.4 kPa	100.4 kPa	101.3 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Link Xia	Link Xia	Destine Hu	Hugh Wu

Test Result: Compliant

EUT operation mode: Transmitting

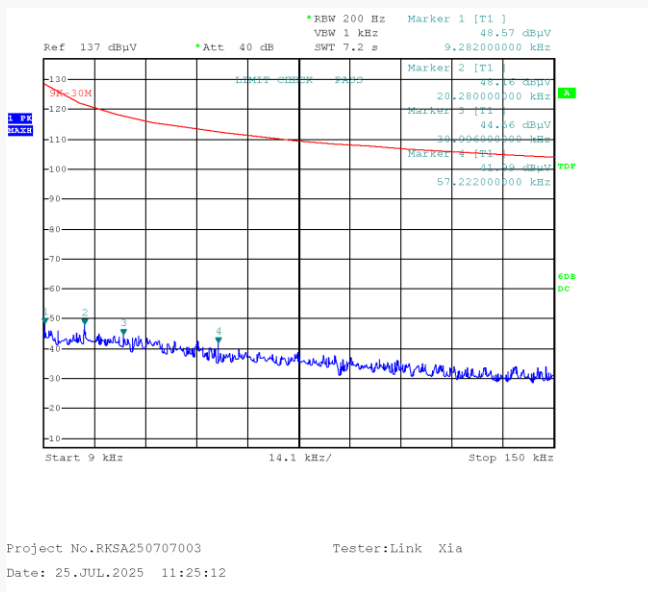
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

For Wi-Fi Mode:

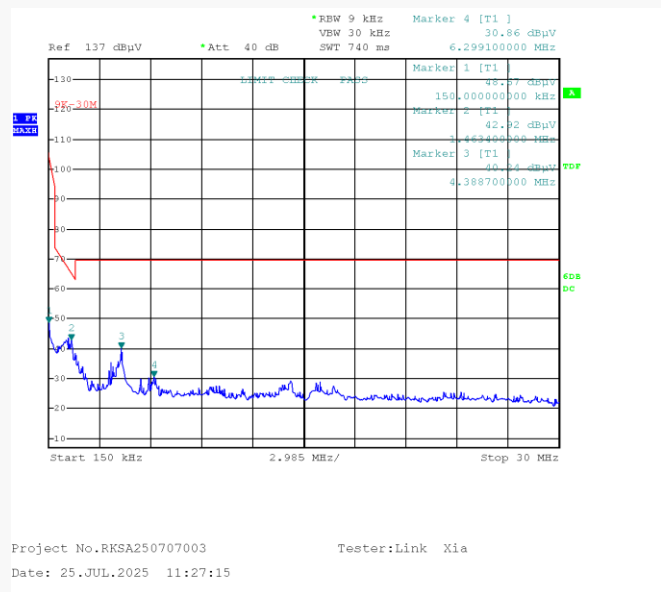
9 kHz-30MHz: (Transmitting in maximum output power mode and 802.11b mode high channel)

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



9kHz-150kHz

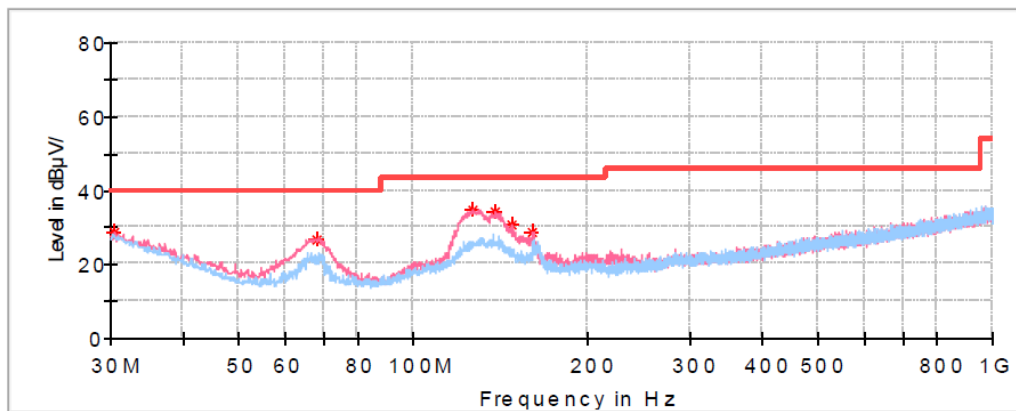
Frequency (kHz)	Corrected Amplitude (dB μ V/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dB μ V/m) @3m	Margin (dB)
9.28	48.57	PK	-0.37	128.25	79.68
20.28	48.16	PK	-0.56	121.46	73.30
31.00	44.56	PK	-0.77	117.78	73.22
57.22	41.99	PK	-4.65	112.45	70.46

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dB μ V/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dB μ V/m) @3m	Margin (dB)
0.15	48.67	PK	-11.34	104.08	55.41
1.46	42.92	PK	-29.13	64.32	21.40
4.39	40.24	PK	-31.97	69.54	29.30
6.30	30.86	PK	-32.26	69.54	38.68

30MHz-1GHz (Transmitting in maximum output power 802.11b mode high channel):**High channel: 2462MHz****Common Information**

Project No: RKSA250707003
EUT Model: P053
Test Mode: Transmitting in 802.11b 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: 24.3°C
Humidity: 46%
Barometric Pressure: 100.4kPa
Test Engineer: Link Xia
Test Date: 2025/7/14

**Critical_Freqs**

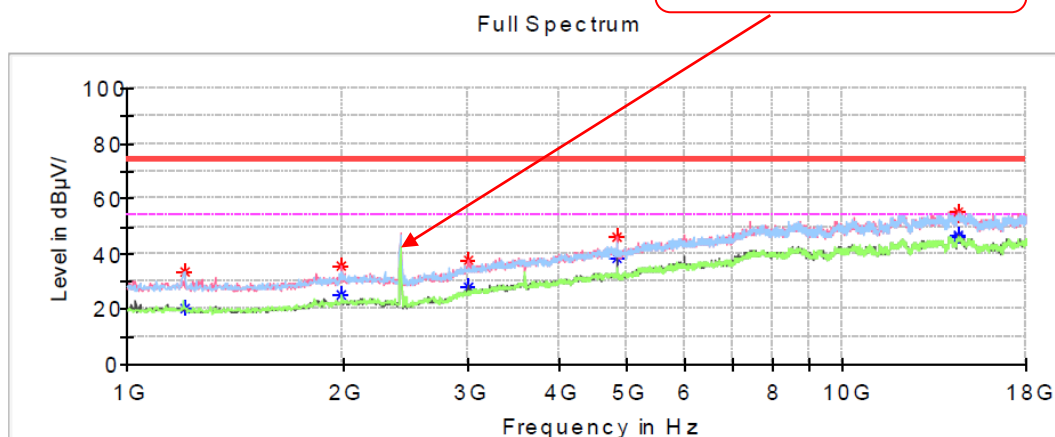
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.485000	28.51	40.00	11.49	V	-5.0
67.830000	26.88	40.00	13.12	V	-16.7
126.393750	34.58	43.50	8.92	V	-11.0
138.276250	34.31	43.50	9.19	V	-11.2
148.218750	30.52	43.50	12.98	V	-11.6
160.465000	28.85	43.50	14.65	V	-12.2

1GHz-18GHz:
802.11b Mode:

Low Channel: 2412MHz

Common Information

Project No.:	RKSA250707003
EUT Model:	P053
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:	25.8°C
Humidity:	52%
Atmospheric Pressure:	100.4kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/14

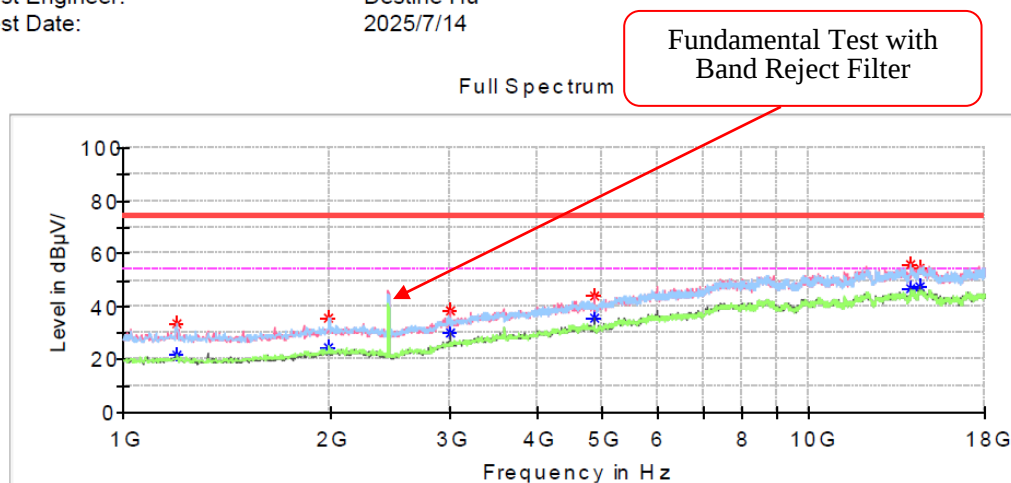


Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1204.000000	---	20.58	54.00	33.42	H	-14.5
1204.000000	33.27	---	74.00	40.73	H	-14.5
1996.200000	35.88	---	74.00	38.12	V	-10.0
1996.200000	---	25.02	54.00	28.98	V	-10.0
2989.000000	37.80	---	74.00	36.20	V	-8.1
2989.000000	---	27.86	54.00	26.14	V	-8.1
4821.600000	45.93	---	74.00	28.07	V	-3.4
4821.600000	---	38.36	54.00	15.64	V	-3.4
14494.600000	---	46.11	54.00	7.89	V	12.0
14494.600000	55.42	---	74.00	18.58	V	12.0
14504.800000	---	46.63	54.00	7.37	H	12.0
14504.800000	54.14	---	74.00	19.86	H	12.0

Middle Channel: 2437MHz**Common Information**

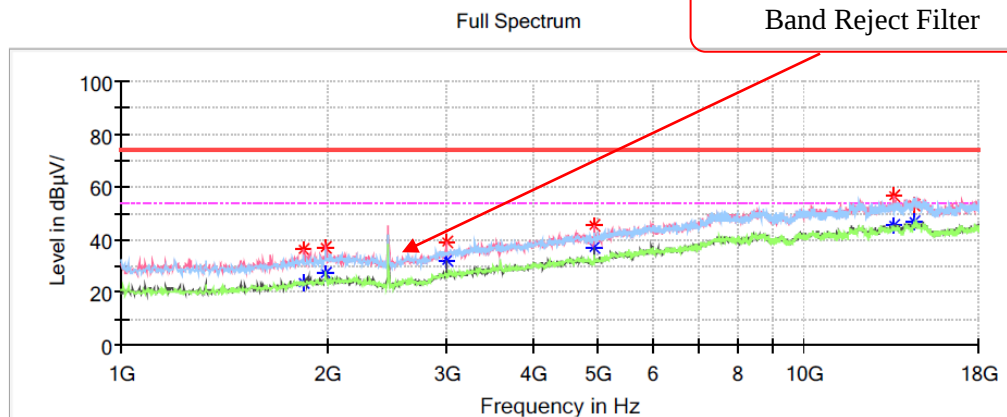
Project No.: RKSA250707003
EUT Model: P053
Test Mode: 2.4G WIFI 802.11b mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	---	21.78	54.00	32.22	H	-14.5
1197.200000	33.33	---	74.00	40.67	H	-14.5
1992.800000	---	24.13	54.00	29.87	H	-10.1
1992.800000	35.83	---	74.00	38.17	H	-10.1
2992.400000	---	29.90	54.00	24.10	V	-8.1
2992.400000	38.21	---	74.00	35.79	V	-8.1
4872.600000	---	35.85	54.00	18.15	V	-3.2
4872.600000	44.15	---	74.00	29.85	V	-3.2
14059.400000	55.63	---	74.00	18.37	H	11.2
14059.400000	---	46.56	54.00	7.44	H	11.2
14453.800000	54.21	---	74.00	19.79	V	11.9
14453.800000	---	47.24	54.00	6.76	V	11.9

High Channel: 2462MHz**Common Information**

Project No.: RKSA250707003
EUT Model: P053
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: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

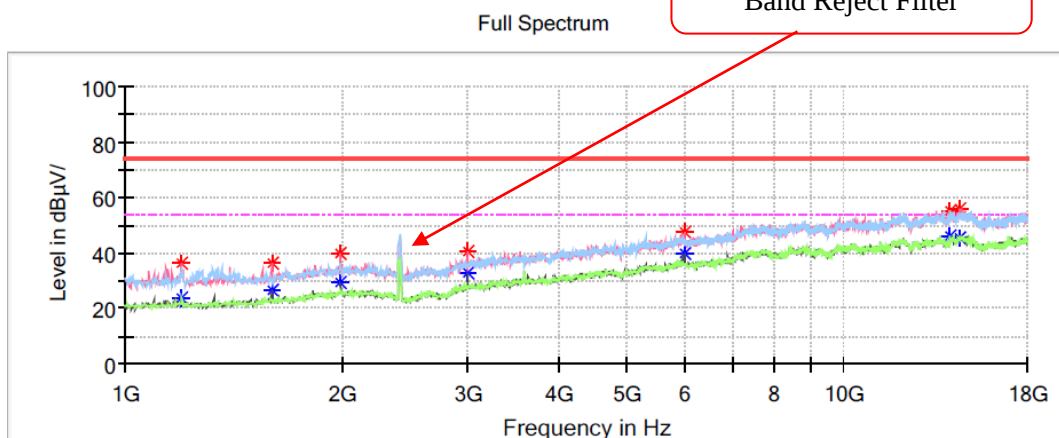
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1850.000000	---	23.95	54.00	30.05	V	-11.0
1850.000000	36.27	---	74.00	37.73	V	-11.0
1996.200000	---	27.40	54.00	26.60	V	-10.0
1996.200000	36.72	---	74.00	37.28	V	-10.0
2992.400000	---	32.22	54.00	21.78	V	-8.1
2992.400000	39.34	---	74.00	34.66	V	-8.1
4923.600000	---	36.92	54.00	17.08	V	-3.1
4923.600000	45.16	---	74.00	28.84	V	-3.1
13498.400000	56.33	---	74.00	17.67	V	10.0
13498.400000	---	45.59	54.00	8.41	V	10.0
14467.400000	53.09	---	74.00	20.91	H	11.9
14467.400000	---	46.63	54.00	7.37	H	11.9

802.11g Mode:**Low Channel: 2412MHz****Common Information**

Project No.: RKSA250707003
 EUT Model: P053
 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: 25.8°C
 Humidity: 52%
 Atmospheric Pressure: 100.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/14

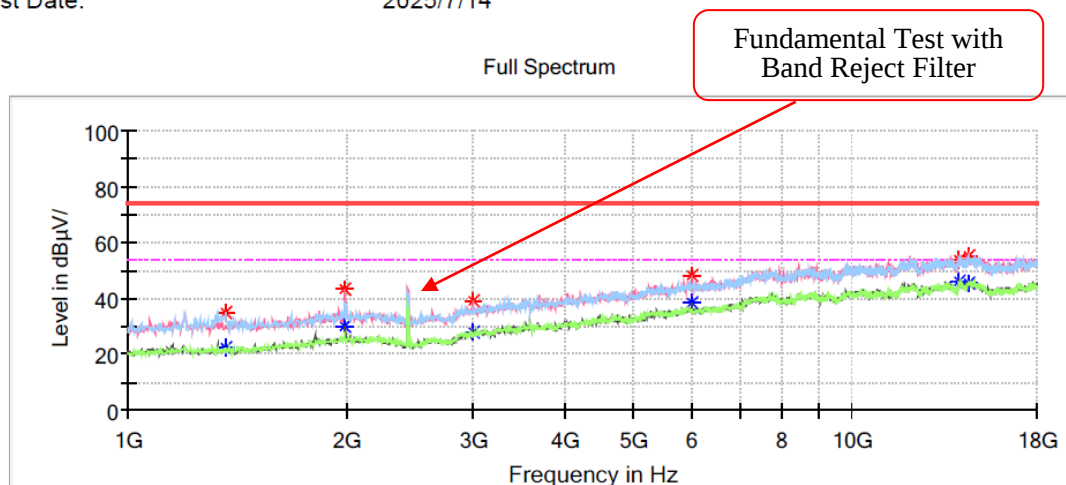
Fundamental Test with
Band Reject Filter

**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)
1197.200000	---	23.58	54.00	30.42	V	-14.5
1197.200000	36.64	---	74.00	37.36	V	-14.5
1598.400000	---	26.47	54.00	27.53	V	-12.8
1598.400000	36.21	---	74.00	37.79	V	-12.8
1989.400000	---	29.17	54.00	24.83	V	-10.1
1989.400000	40.12	---	74.00	33.88	V	-10.1
2992.400000	---	32.55	54.00	21.45	V	-8.1
2992.400000	40.28	---	74.00	33.72	V	-8.1
5998.000000	---	39.90	54.00	14.10	V	-0.6
5998.000000	47.56	---	74.00	26.44	V	-0.6
14062.800000	---	46.30	54.00	7.70	H	11.2
14062.800000	55.21	---	74.00	18.79	H	11.2
14528.600000	---	45.28	54.00	8.72	V	11.9
14528.600000	55.81	---	74.00	18.19	V	11.9

Middle Channel: 2437MHz**Common Information**

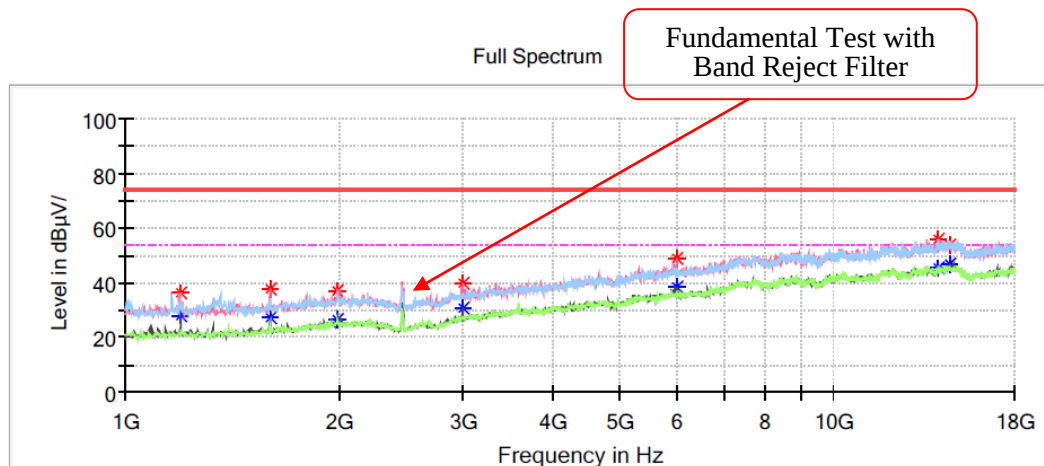
Project No.: RKSA250707003
EUT Model: P053
Test Mode: 2.4G WIFI 802.11g mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1363.800000	---	22.09	54.00	31.91	H	-13.9
1363.800000	35.31	---	74.00	38.69	H	-13.9
1996.200000	43.30	---	74.00	30.70	V	-10.0
1996.200000	---	29.84	54.00	24.16	V	-10.0
2989.000000	38.81	---	74.00	35.19	V	-8.1
2989.000000	---	28.01	54.00	25.99	V	-8.1
5998.000000	48.00	---	74.00	26.00	V	-0.6
5998.000000	---	38.57	54.00	15.43	V	-0.6
14052.600000	53.99	---	74.00	20.01	V	11.2
14052.600000	---	46.43	54.00	7.57	V	11.2
14443.600000	55.18	---	74.00	18.82	H	11.9
14443.600000	---	45.25	54.00	8.75	H	11.9

High Channel: 2462MHz**Common Information**

Project No.: RKSA250707003
 EUT Model: P053
 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: 25.8℃
 Humidity: 52%
 Atmospheric Pressure: 100.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/14

**Critical_Freqs**

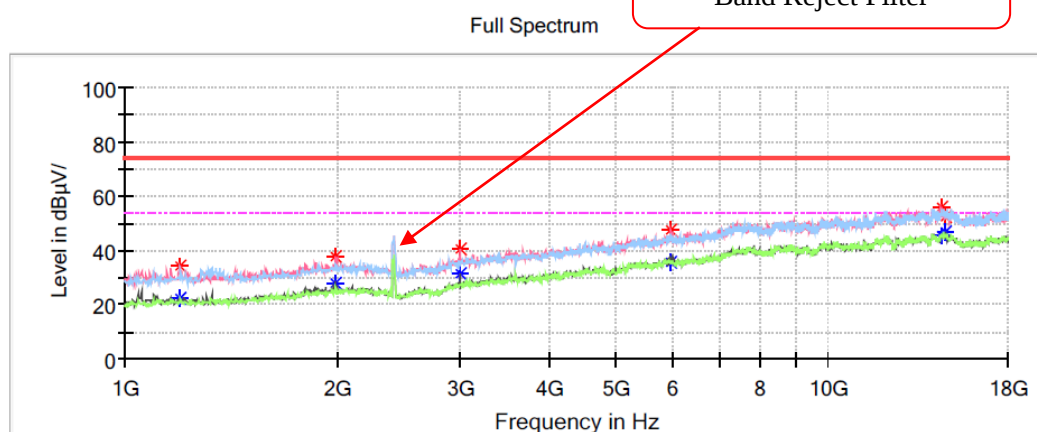
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	---	27.93	54.00	26.07	V	-14.5
1197.200000	36.69	---	74.00	37.31	V	-14.5
1598.400000	---	27.05	54.00	26.95	V	-12.8
1598.400000	38.10	---	74.00	35.90	V	-12.8
1989.400000	---	26.48	54.00	27.52	V	-10.1
1989.400000	37.38	---	74.00	36.62	V	-10.1
2992.400000	---	30.68	54.00	23.32	V	-8.1
2992.400000	39.89	---	74.00	34.11	V	-8.1
5998.000000	---	38.58	54.00	15.42	V	-0.6
5998.000000	49.29	---	74.00	24.71	V	-0.6
14022.000000	55.76	---	74.00	18.24	H	11.1
14022.000000	---	45.40	54.00	8.60	H	11.1
14589.800000	53.79	---	74.00	20.21	V	11.7
14589.800000	---	46.64	54.00	7.36	V	11.7

802.11n-HT20 Mode :

Low Channel: 2412MHz

Common Information

Project No.: RKSA250707003
EUT Model: P053
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: 25.8°C
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14



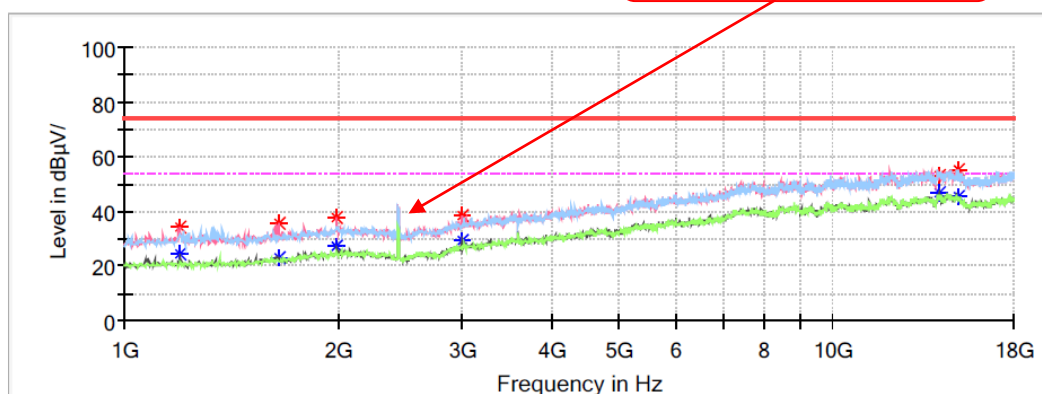
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	---	22.20	54.00	31.80	V	-14.5
1197.200000	34.43	---	74.00	39.57	V	-14.5
1989.400000	---	27.75	54.00	26.25	V	-10.1
1989.400000	37.68	---	74.00	36.32	V	-10.1
2992.400000	---	31.66	54.00	22.34	V	-8.1
2992.400000	40.84	---	74.00	33.16	V	-8.1
5974.200000	---	35.66	54.00	18.34	V	-0.7
5974.200000	47.22	---	74.00	26.78	V	-0.7
14457.200000	55.67	---	74.00	18.33	H	11.9
14457.200000	---	45.43	54.00	8.57	H	11.9
14678.200000	52.78	---	74.00	21.22	H	11.4
14678.200000	---	46.59	54.00	7.41	H	11.4

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA250707003
 EUT Model: P053
 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: 25.8℃
 Humidity: 52%
 Atmospheric Pressure: 100.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/14

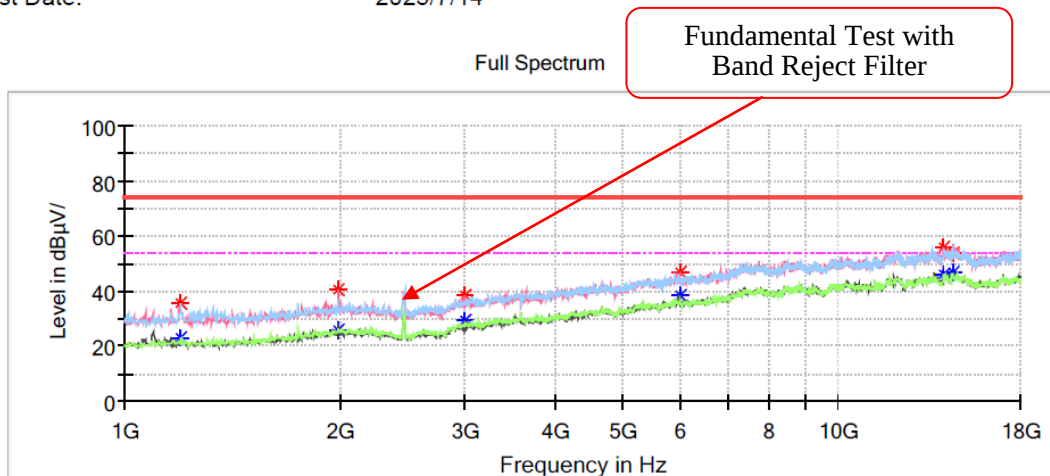
Full Spectrum

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)
1197.200000	---	24.52	54.00	29.48	V	-14.5
1197.200000	34.12	---	74.00	39.88	V	-14.5
1649.400000	---	23.32	54.00	30.68	V	-12.4
1649.400000	35.72	---	74.00	38.28	V	-12.4
1989.400000	---	27.39	54.00	26.61	V	-10.1
1989.400000	37.71	---	74.00	36.29	V	-10.1
2989.000000	---	29.20	54.00	24.80	V	-8.1
2989.000000	38.48	---	74.00	35.52	V	-8.1
14090.000000	---	46.95	54.00	7.05	H	11.2
14090.000000	53.09	---	74.00	20.91	H	11.2
15048.800000	---	45.50	54.00	8.50	H	10.1
15048.800000	55.41	---	74.00	18.59	H	10.1

High Channel: 2462MHz**Common Information**

Project No.: RKSA250707003
EUT Model: P053
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: 25.8°C
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

**Critical_Freqs**

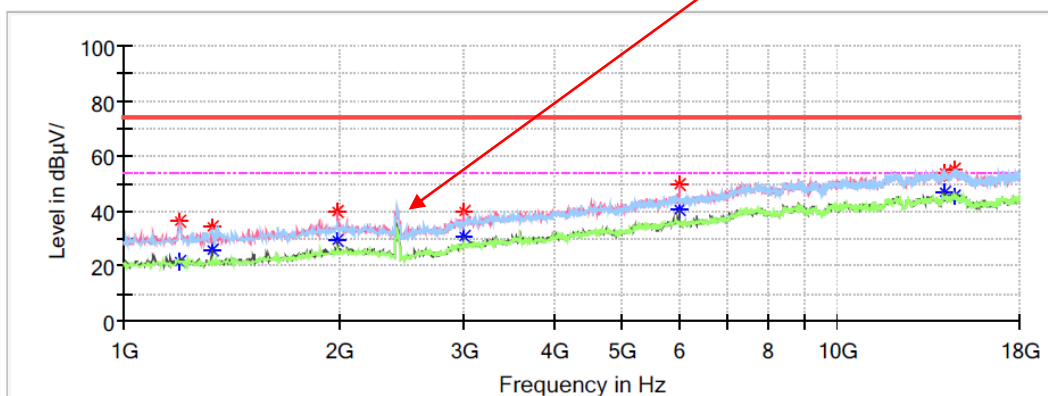
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	---	22.79	54.00	31.21	H	-14.5
1197.200000	35.41	---	74.00	38.59	H	-14.5
1989.400000	---	26.17	54.00	27.83	V	-10.1
1989.400000	40.28	---	74.00	33.72	V	-10.1
2992.400000	---	29.15	54.00	24.85	V	-8.1
2992.400000	38.53	---	74.00	35.47	V	-8.1
5998.000000	---	38.71	54.00	15.29	V	-0.6
5998.000000	47.12	---	74.00	26.88	V	-0.6
14011.800000	---	45.97	54.00	8.03	V	11.1
14011.800000	56.05	---	74.00	17.95	V	11.1
14457.200000	---	47.03	54.00	6.97	H	11.9
14457.200000	53.96	---	74.00	20.04	H	11.9

802.11n-HT40 Mode :**Low Channel: 2422MHz****Common Information**

Project No.: RKSA250707003
 EUT Model: P053
 Test Mode: 2.4G WIFI 802.11n40 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: 25.8℃
 Humidity: 52%
 Atmospheric Pressure: 100.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/14

Fundamental Test with
Band Reject Filter

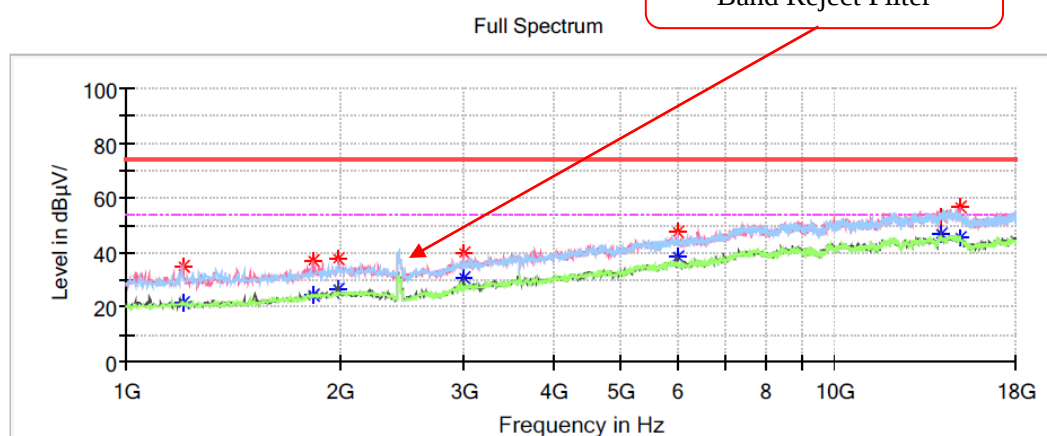
Full Spectrum

**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)
1193.800000	---	21.80	54.00	32.20	V	-14.5
1193.800000	36.41	---	74.00	37.59	V	-14.5
1326.400000	---	25.92	54.00	28.08	V	-14.0
1326.400000	34.32	---	74.00	39.68	V	-14.0
1992.800000	---	29.29	54.00	24.71	V	-10.1
1992.800000	39.83	---	74.00	34.17	V	-10.1
2992.400000	---	30.90	54.00	23.10	V	-8.1
2992.400000	39.52	---	74.00	34.48	V	-8.1
5998.000000	---	40.27	54.00	13.73	V	-0.6
5998.000000	49.68	---	74.00	24.32	V	-0.6
14147.800000	---	46.64	54.00	7.36	H	11.4
14147.800000	53.84	---	74.00	20.16	H	11.4
14610.200000	---	45.39	54.00	8.61	V	11.6
14610.200000	55.29	---	74.00	18.71	V	11.6

Middle Channel: 2437MHz**Common Information**

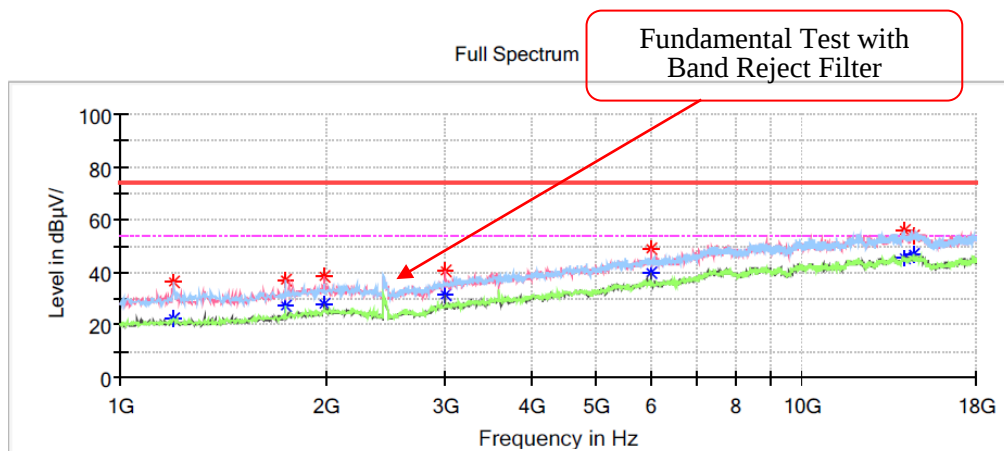
Project No.: RKSA250707003
EUT Model: P053
Test Mode: 2.4G WIFI 802.11n40 mode Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.8°C
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1204.000000	---	21.73	54.00	32.27	V	-14.5
1204.000000	35.08	---	74.00	38.92	V	-14.5
1833.000000	---	24.44	54.00	29.56	V	-11.2
1833.000000	37.20	---	74.00	36.80	V	-11.2
1992.800000	---	26.31	54.00	27.69	V	-10.1
1992.800000	37.58	---	74.00	36.42	V	-10.1
2992.400000	---	30.66	54.00	23.34	V	-8.1
2992.400000	39.70	---	74.00	34.30	V	-8.1
5998.000000	---	38.38	54.00	15.62	V	-0.6
5998.000000	47.60	---	74.00	26.40	V	-0.6
14175.000000	---	46.63	54.00	7.37	V	11.4
14175.000000	53.13	---	74.00	20.87	V	11.4
15028.400000	---	45.34	54.00	8.66	H	10.2
15028.400000	56.56	---	74.00	17.44	H	10.2

High Channel: 2452MHz**Common Information**

Project No.: RKSA250707003
EUT Model: P053
Test Mode: 2.4G WIFI 802.11n40 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: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	---	22.47	54.00	31.53	H	-14.5
1197.200000	36.56	---	74.00	37.44	H	-14.5
1748.000000	---	27.57	54.00	26.43	H	-11.7
1748.000000	36.92	---	74.00	37.08	H	-11.7
1992.800000	---	27.63	54.00	26.37	V	-10.1
1992.800000	38.69	---	74.00	35.31	V	-10.1
2992.400000	---	31.21	54.00	22.79	V	-8.1
2992.400000	40.69	---	74.00	33.31	V	-8.1
5998.000000	---	39.66	54.00	14.34	V	-0.6
5998.000000	49.23	---	74.00	24.77	V	-0.6
14127.400000	56.29	---	74.00	17.71	H	11.3
14127.400000	---	45.60	54.00	8.40	H	11.3
14545.600000	53.82	---	74.00	20.18	V	11.8
14545.600000	---	46.83	54.00	7.17	V	11.8

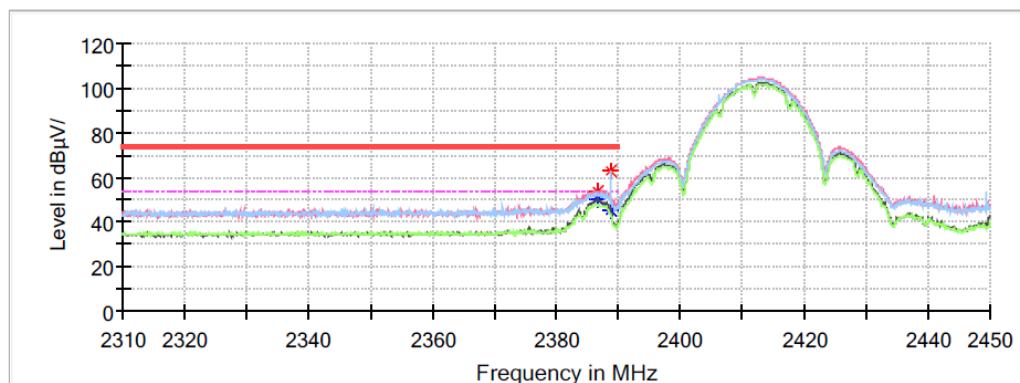
Band Edge:
802.11b Mode:

Low Channel

Common Information

Project No.: RKSA250707003
EUT Model: P053
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: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

Full Spectrum



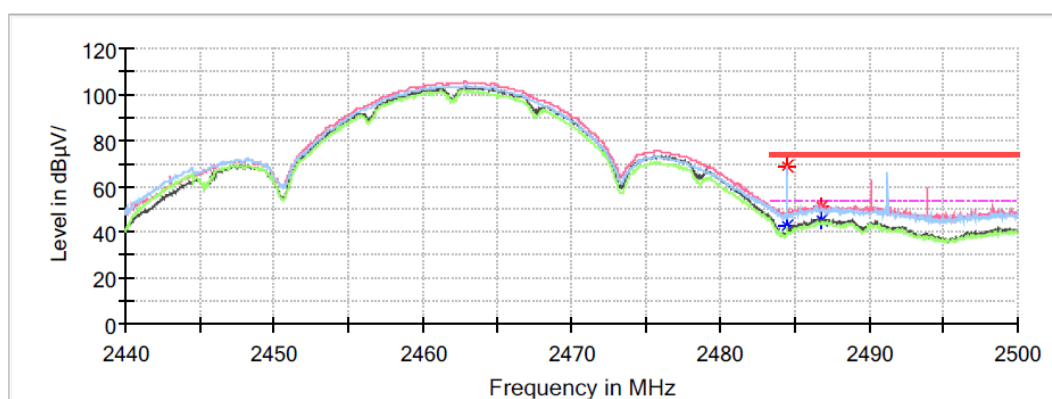
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.496000	---	50.04	54.00	3.96	V	0.2
2386.496000	53.43	---	74.00	20.57	V	0.2
2388.680000	---	45.45	54.00	8.55	H	0.2
2388.680000	62.92	---	74.00	11.08	H	0.2

High Channel**Common Information**

Project No.: RKSA250707003
EUT Model: P053
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: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.448000	---	42.51	54.00	11.49	H	0.4
2484.448000	68.95	---	74.00	5.05	H	0.4
2486.776000	---	45.72	54.00	8.28	V	0.4
2486.776000	51.02	---	74.00	22.98	V	0.4

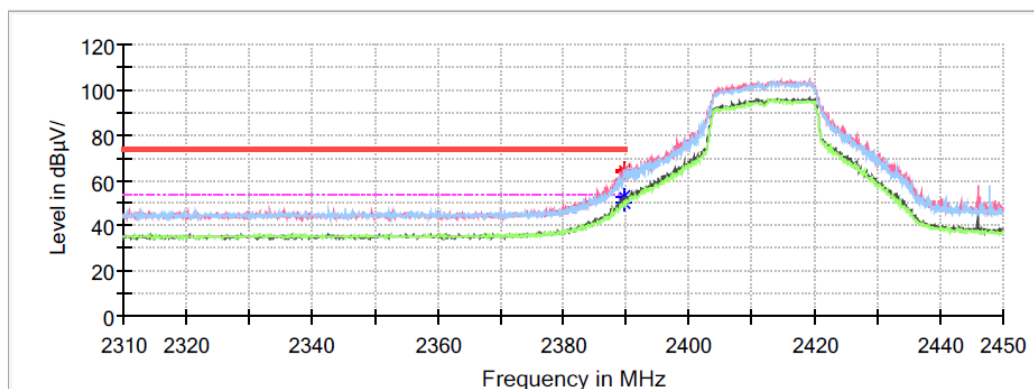
802.11g Mode :

Low Channel

Common Information

Project No.: RKSA250707003
EUT Model: P053
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: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

Full Spectrum



Critical_Freqs

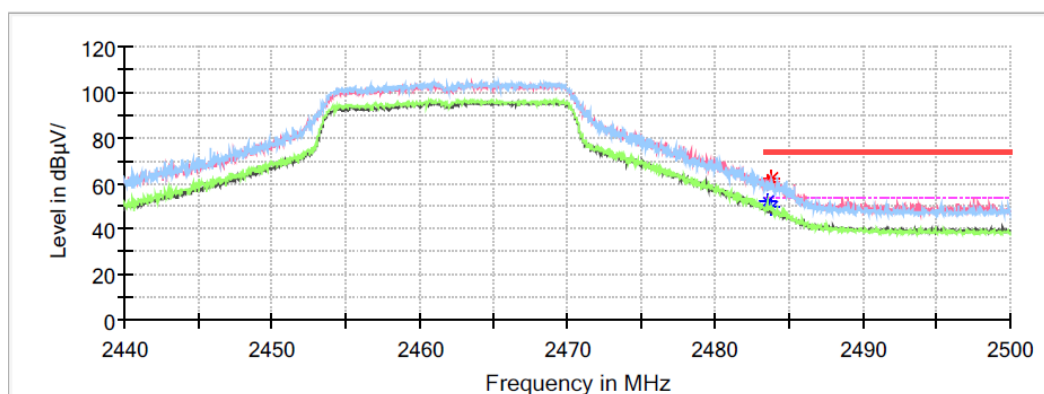
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.576000	---	52.53	54.00	1.47	V	0.2
2389.576000	63.71	---	74.00	10.29	V	0.2
2389.632000	---	50.43	54.00	3.57	H	0.2
2389.632000	64.74	---	74.00	9.26	H	0.2

High Channel

Common Information

Project No.: RKSA250707003
EUT Model: P053
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: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.536000	---	51.69	54.00	2.31	V	0.4
2483.536000	60.59	---	74.00	13.41	V	0.4
2483.848000	---	49.14	54.00	4.86	H	0.4
2483.848000	61.99	---	74.00	12.01	H	0.4

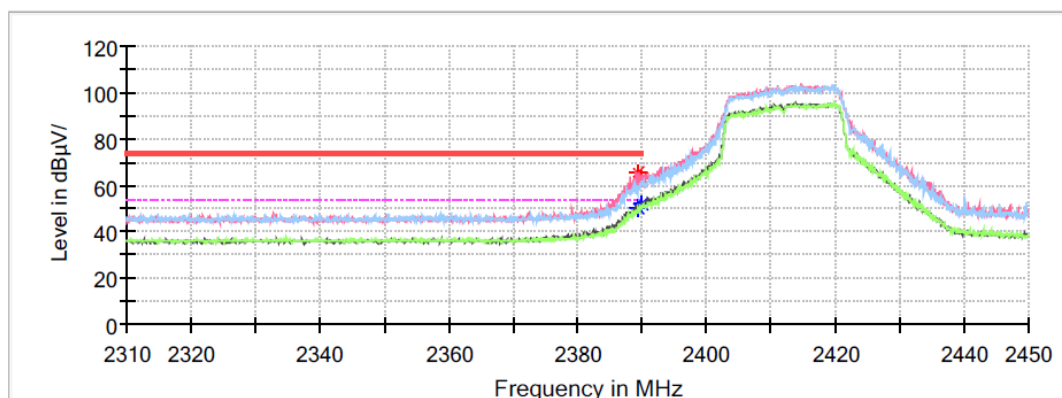
802.11n-HT20 Mode:

Low Channel

Common Information

Project No.: RKSA250707003
EUT Model: P053
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: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

Full Spectrum



Critical_Freqs

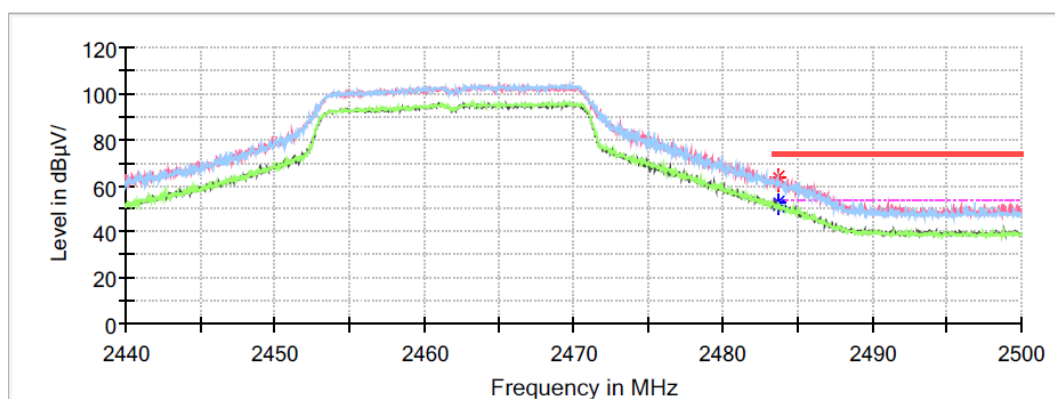
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.296000	65.41	---	74.00	8.59	V	0.2
2389.296000	---	50.48	54.00	3.52	V	0.2
2389.912000	63.22	---	74.00	10.78	V	0.2
2389.912000	---	51.76	54.00	2.24	V	0.2

High Channel

Common Information

Project No.: RKSA250707003
EUT Model: P053
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: 25.8°C
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.656000	63.69	---	74.00	10.31	H	0.4
2483.656000	---	51.31	54.00	2.69	H	0.4
2483.728000	61.08	---	74.00	12.92	V	0.4
2483.728000	---	52.69	54.00	1.31	V	0.4

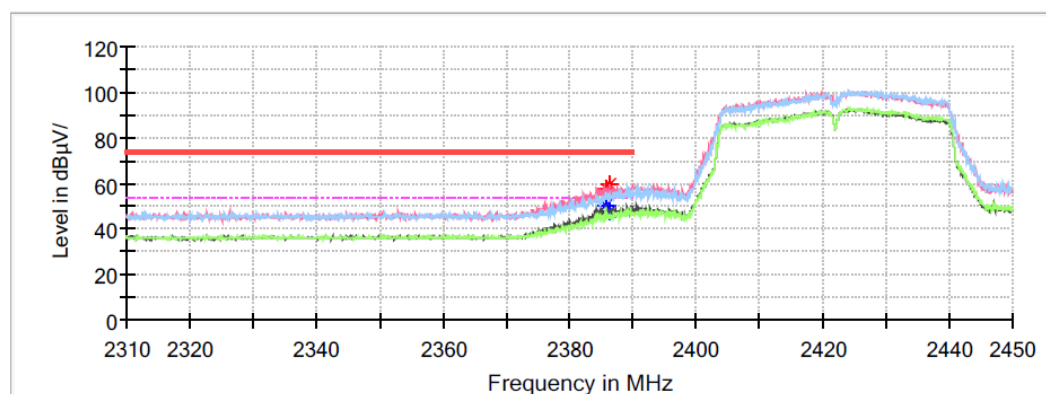
802.11n-HT40 Mode:

Low Channel

Common Information

Project No.: RKSA250707003
EUT Model: P053
Test Mode: 2.4G WIFI 802.11n40 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: 25.8°C
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

Full Spectrum



Critical_Freqs

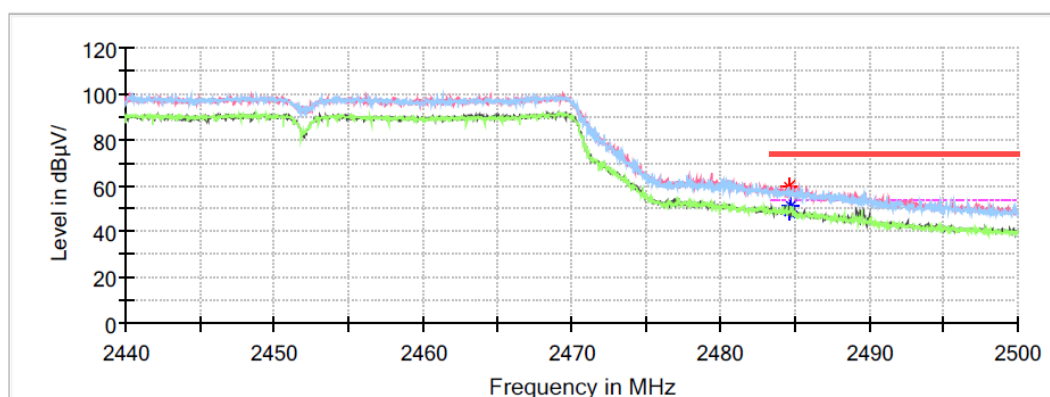
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2385.768000	---	50.48	54.00	3.52	V	0.2
2385.768000	57.92	---	74.00	16.08	V	0.2
2386.272000	---	48.04	54.00	5.96	V	0.2
2386.272000	59.23	---	74.00	14.77	V	0.2

High Channel

Common Information

Project No.: RKSA250707003
EUT Model: P053
Test Mode: 2.4G WIFI 802.11n40 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: 25.8℃
Humidity: 52%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/14

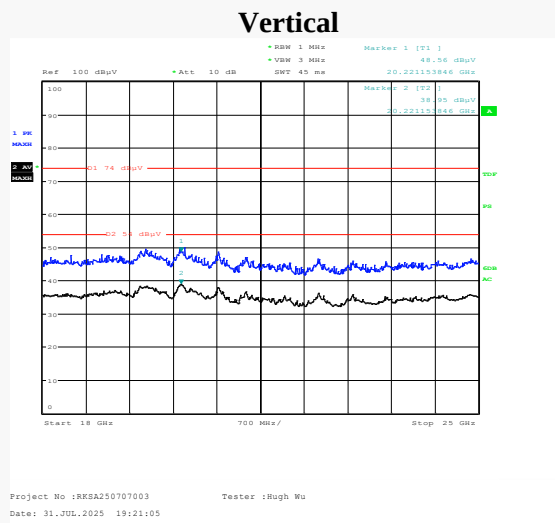
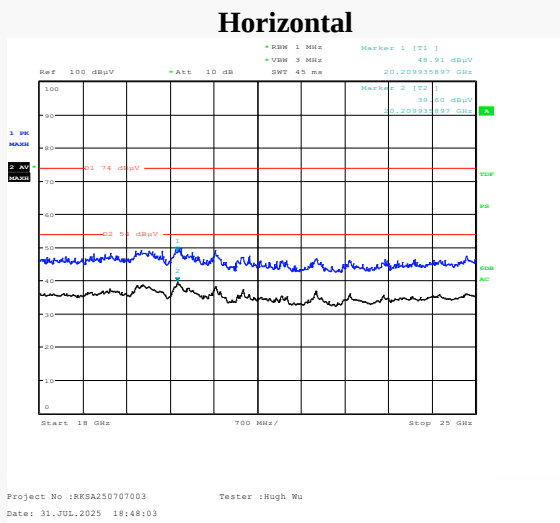
Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.616000	59.28	---	74.00	14.72	H	0.4
2484.616000	---	49.02	54.00	4.98	H	0.4
2484.760000	56.96	---	74.00	17.04	V	0.4
2484.760000	---	51.08	54.00	2.92	V	0.4

18GHz-25GHz: Transmitting in maximum output power mode and 802.11b mode high channel



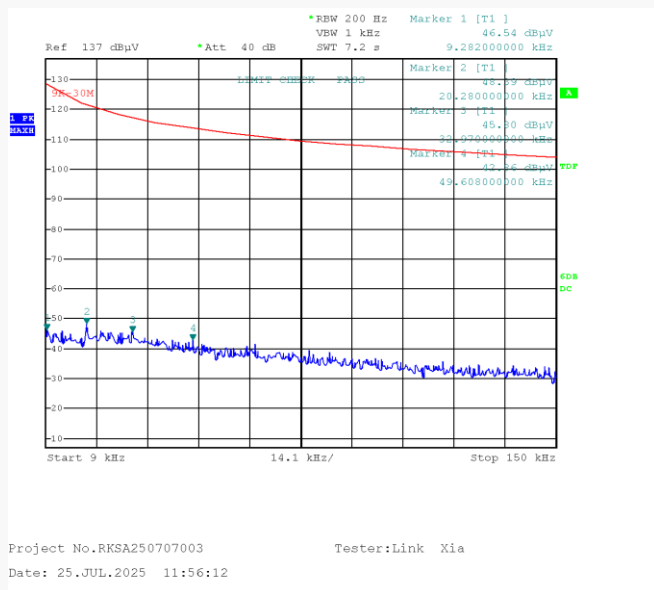
Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.21	---	39.6	54	14.4	H	12.47
20.21	48.91	---	74	25.09	H	12.47
20.22	---	38.95	54	15.05	V	12.48
20.22	48.56	---	74	25.44	V	12.48

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

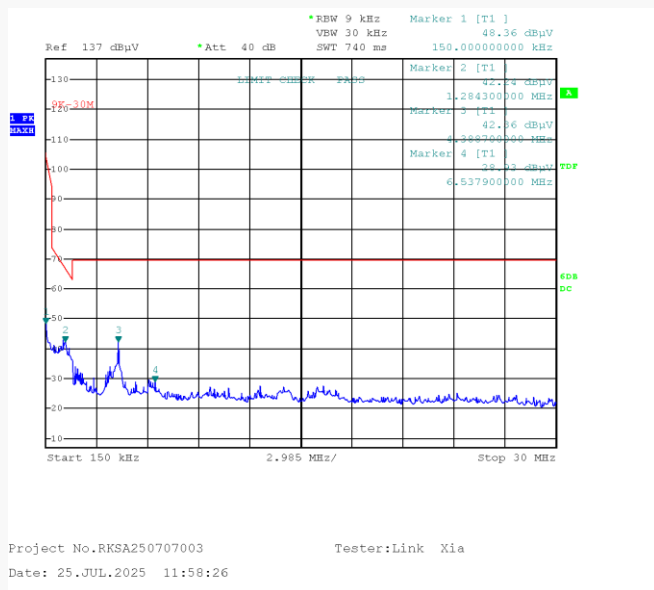
For BLE Mode:

9 kHz-30MHz: Transmitting in maximum output power mode BLE (1 Mbps) low channel
Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



9 kHz-150 kHz

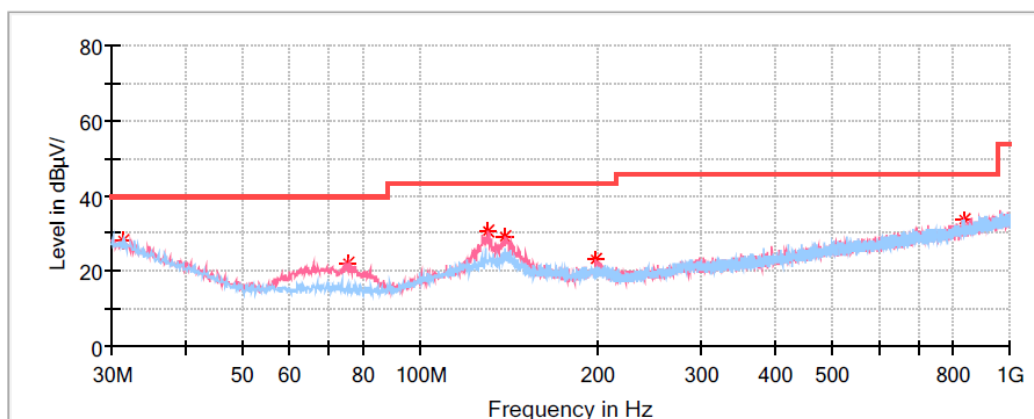
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
9.28	46.54	PK	-0.37	128.25	81.71
20.28	48.39	PK	-0.56	121.46	73.07
32.97	45.80	PK	-1.09	117.24	71.44
49.61	42.86	PK	-3.75	113.69	70.83

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15	48.36	PK	-11.34	104.08	55.72
1.28	42.24	PK	-28.53	65.46	23.22
4.39	42.36	PK	-31.97	69.54	27.18
6.54	28.93	PK	-32.29	69.54	40.61

**BLE (1 Mbps)
30MHz-1GHz****Low Channel: 2402MHz****Common Information**

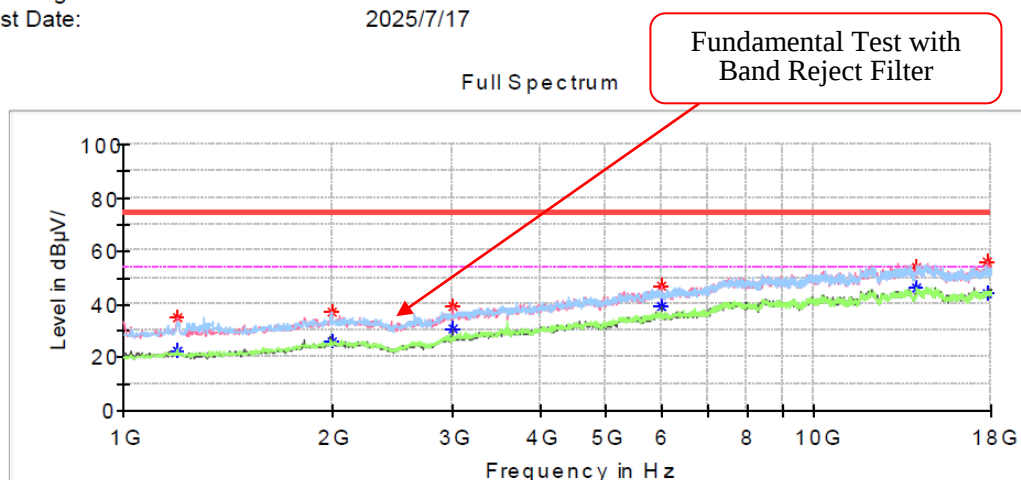
Project No:	RKSA250707003
EUT Model:	P053
Test Mode:	Transmitting in BLE-1M mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209&FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	24.3°C
Humidity:	46%
Barometric Pressure:	100.4kPa
Test Engineer:	Link Xia
Test Date:	2025/7/14

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.333750	27.93	40.00	12.07	H	-5.6
75.468750	22.00	40.00	18.00	V	-16.9
130.637500	30.79	43.50	12.71	V	-11.1
139.367500	29.18	43.50	14.32	V	-11.2
198.901250	22.90	43.50	20.60	V	-12.2
835.948750	33.86	46.00	12.14	V	-0.1

**BLE (1 Mbps)
1GHz-18GHz:****Low Channel: 2402MHz****Common Information**

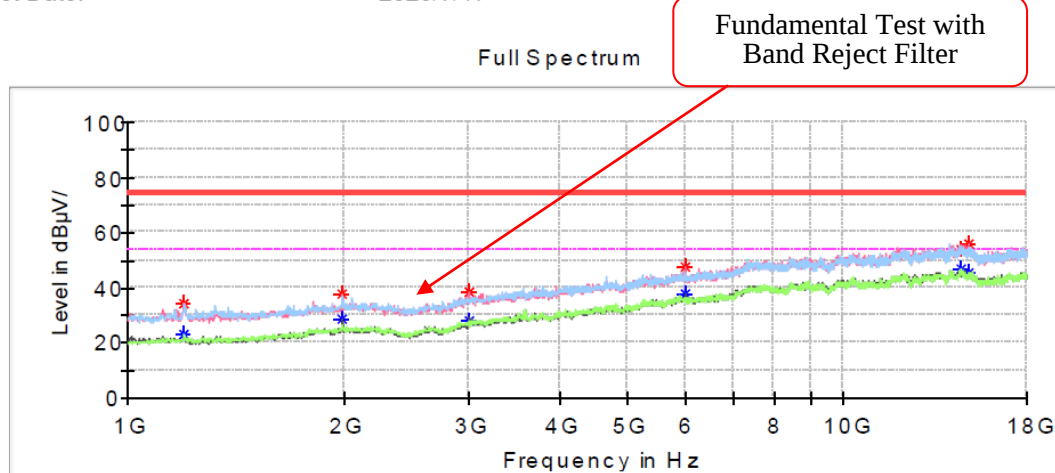
Project No.: RKSA250707003
EUT Model: P053
Test Mode: Transmitting in BLE-1M mode low channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.7℃
Humidity: 50%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/17

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
1197.200000	---	22.05	54.00	31.95	V	-14.5
1197.200000	34.91	---	74.00	39.09	V	-14.5
1999.600000	---	26.12	54.00	27.88	V	-10.0
1999.600000	37.34	---	74.00	36.66	V	-10.0
2992.400000	38.92	---	74.00	35.08	V	-8.1
2992.400000	---	31.08	54.00	22.92	V	-8.1
5998.000000	46.75	---	74.00	27.25	V	-0.6
5998.000000	---	39.25	54.00	14.75	V	-0.6
14076.400000	---	46.22	54.00	7.78	H	11.2
14076.400000	53.83	---	74.00	20.17	H	11.2
17823.200000	---	43.77	54.00	10.23	V	11.3
17823.200000	56.16	---	74.00	17.84	V	11.3

Middle Channel: 2440MHz**Common Information**

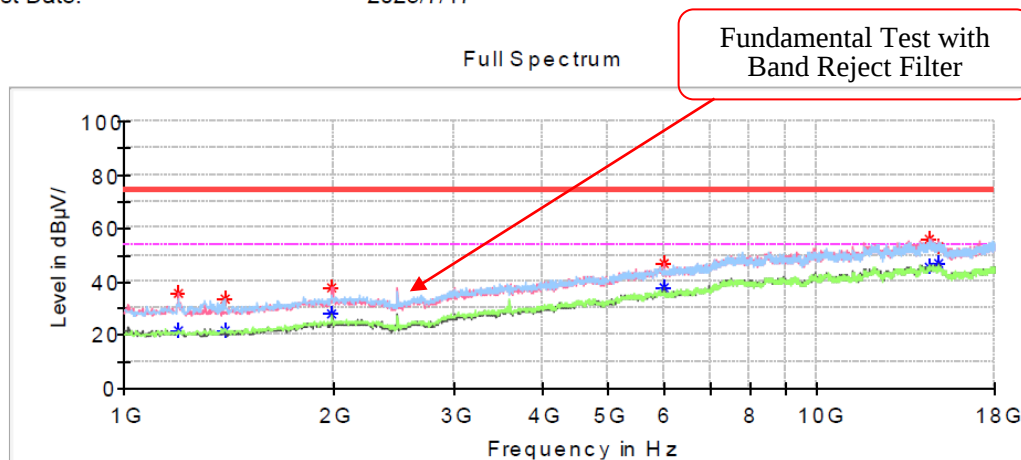
Project No.: RKSA250707003
EUT Model: P053
Test Mode: Transmitting in BLE-1M mode middle channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.7℃
Humidity: 50%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/17

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB)
1200.600000	---	22.73	54.00	31.27	V	-14.5
1200.600000	34.54	---	74.00	39.46	V	-14.5
1996.200000	---	28.42	54.00	25.58	V	-10.0
1996.200000	37.79	---	74.00	36.21	V	-10.0
2989.000000	---	27.87	54.00	26.13	V	-8.1
2989.000000	38.41	---	74.00	35.59	V	-8.1
5998.000000	---	37.67	54.00	16.33	V	-0.6
5998.000000	47.31	---	74.00	26.69	V	-0.6
14535.400000	---	46.69	54.00	7.31	H	11.9
14535.400000	53.87	---	74.00	20.13	H	11.9
14974.000000	---	45.23	54.00	8.77	H	10.4
14974.000000	55.85	---	74.00	18.15	H	10.4

High Channel: 2480MHz**Common Information**

Project No.: RKSA250707003
 EUT Model: P053
 Test Mode: Transmitting in BLE-1M 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: 26.7°C
 Humidity: 50%
 Atmospheric Pressure: 100.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/17

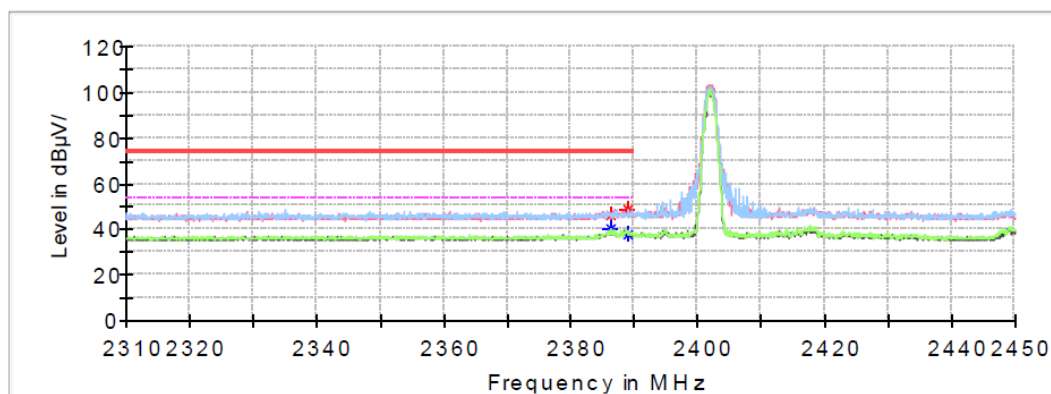
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
1197.200000	---	21.71	54.00	32.29	V	-14.5
1197.200000	35.64	---	74.00	38.36	V	-14.5
1397.800000	---	21.63	54.00	32.37	H	-13.8
1397.800000	33.88	---	74.00	40.12	H	-13.8
1996.200000	---	28.21	54.00	25.79	V	-10.0
1996.200000	37.62	---	74.00	36.38	V	-10.0
5998.000000	---	37.91	54.00	16.09	V	-0.6
5998.000000	46.89	---	74.00	27.11	V	-0.6
14508.200000	---	45.55	54.00	8.45	H	11.9
14508.200000	55.80	---	74.00	18.20	H	11.9
14926.400000	---	46.54	54.00	7.46	V	10.5
14926.400000	53.32	---	74.00	20.68	V	10.5

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

Project No.: RKSA250707003
EUT Model: P053
Test Mode: Transmitting in BLE-1M 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: 26.7℃
Humidity: 50%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/17

Full Spectrum

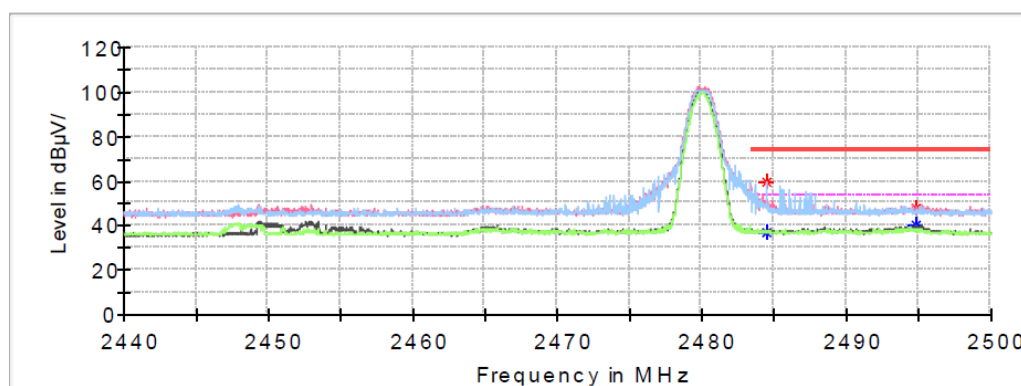
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2386.328000	---	39.93	54.00	14.07	H	0.2
2386.328000	46.07	---	74.00	27.93	H	0.2
2389.128000	---	37.93	54.00	16.07	H	0.2
2389.128000	48.68	---	74.00	25.32	H	0.2

High Channel**Common Information**

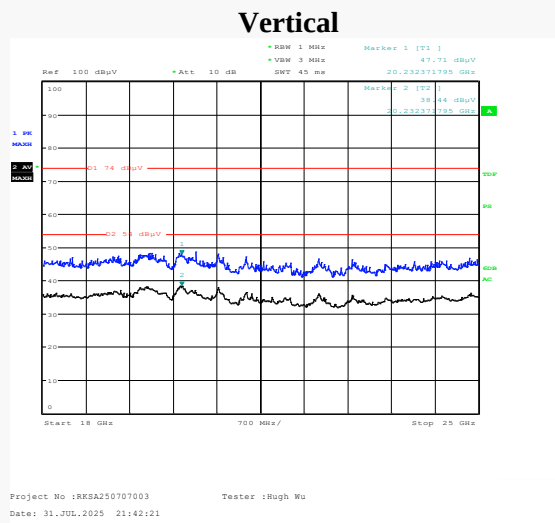
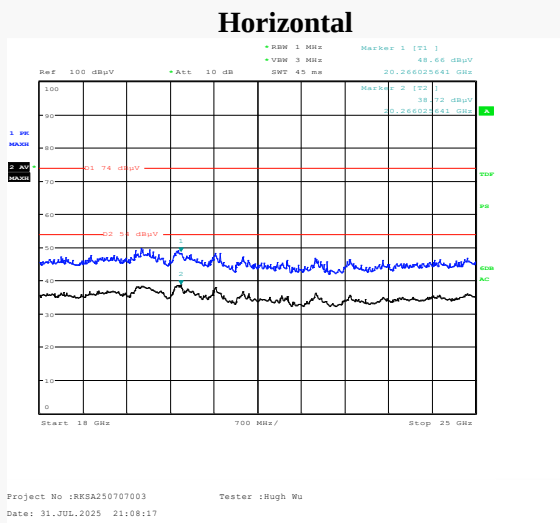
Project No.: RKSA250707003
EUT Model: P053
Test Mode: Transmitting in BLE-1M mode high channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.7°C
Humidity: 50%
Atmospheric Pressure: 100.4kPa
Test Engineer: Destine Hu
Test Date: 2025/7/17

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)
2484.472000	59.41	---	74.00	14.59	H	0.4
2484.472000	---	37.12	54.00	16.88	H	0.4
2494.768000	47.57	---	74.00	26.43	V	0.4
2494.768000	---	40.46	54.00	13.54	V	0.4

18GHz-25GHz: Transmitting in maximum output power mode and BLE 1M 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)
20.23	---	38.44	54	15.56	V	12.49
20.23	47.71	---	74	26.29	V	12.49
20.27	---	38.72	54	15.28	H	12.52
20.27	48.66	---	74	25.34	H	12.52

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

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

Test Date:	2025-07-23 to 2025-07-24
Temperature:	24.5-24.7 °C
Relative Humidity:	52-54 %
ATM Pressure:	100.6-101.5kPa
Test Result:	Pass
Test Engineer:	Jason Lu

Test Result: Compliant.

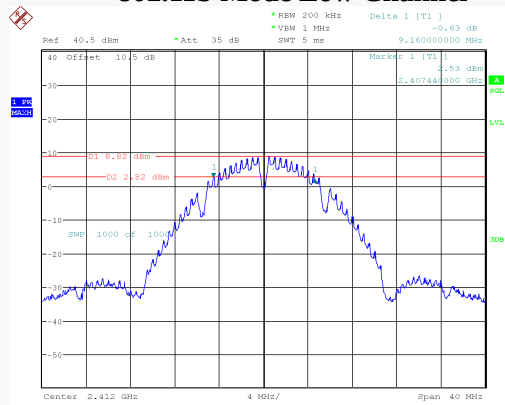
EUT operation mode: Transmitting

For Wi-Fi Mode:

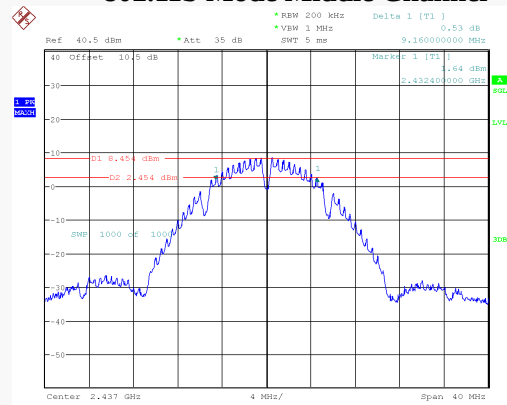
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)	Result
802.11b Mode				
Low	2412	9.16	≥ 0.5	Pass
Middle	2437	9.16	≥ 0.5	Pass
High	2462	9.20	≥ 0.5	Pass
802.11g Mode				
Low	2412	16.24	≥ 0.5	Pass
Middle	2437	16.24	≥ 0.5	Pass
High	2462	16.40	≥ 0.5	Pass
802.11n-HT20 Mode				
Low	2412	17.44	≥ 0.5	Pass
Middle	2437	17.44	≥ 0.5	Pass
High	2462	17.52	≥ 0.5	Pass
802.11n-HT40 Mode				
Low	2422	36.32	≥ 0.5	Pass
Middle	2437	36.64	≥ 0.5	Pass
High	2452	36.72	≥ 0.5	Pass

For BLE Mode:

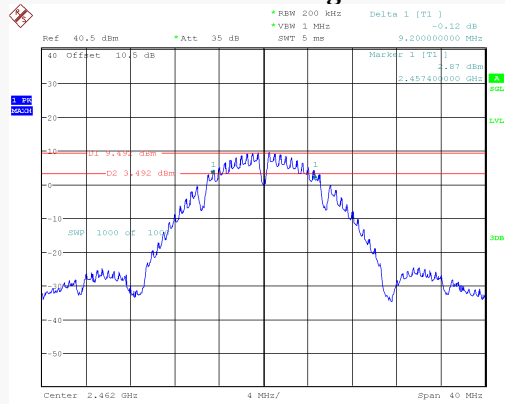
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)	Result
BLE (1 Mbps)	Low	2402	0.676	≥ 0.5	Pass
	Middle	2440	0.676	≥ 0.5	Pass
	High	2480	0.676	≥ 0.5	Pass

**For Wi-Fi Mode:
802.11b Mode Low Channel**

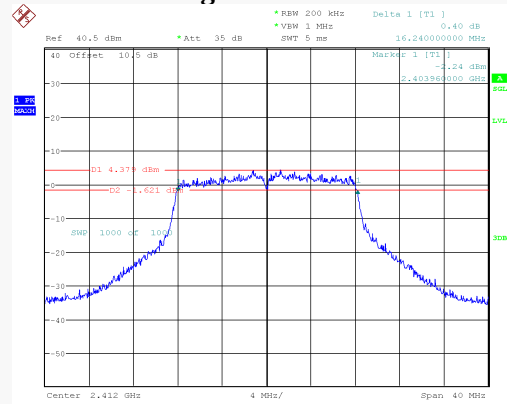
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:00:37

802.11b Mode Middle Channel

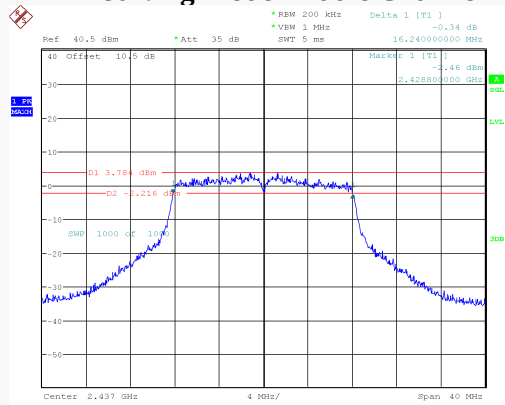
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:13:59

802.11b Mode High Channel

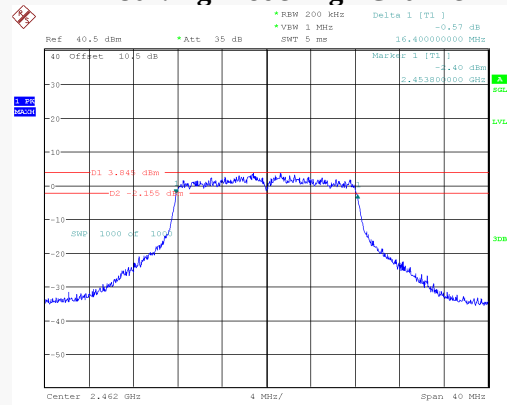
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:38:04

802.11g Mode Low Channel

ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:49:59

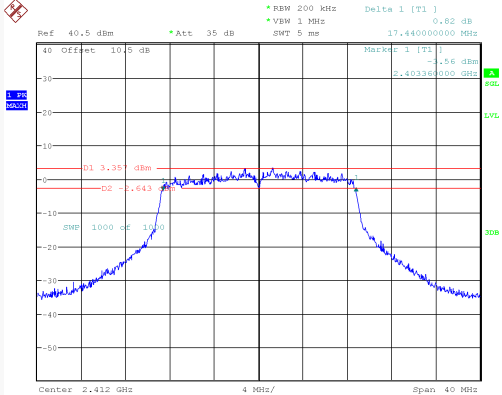
802.11g Mode Middle Channel

ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 16:05:49

802.11g Mode High Channel

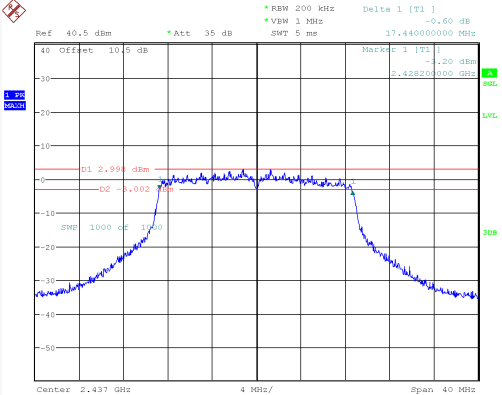
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 16:42:37

802.11n-HT20 Mode Low Channel



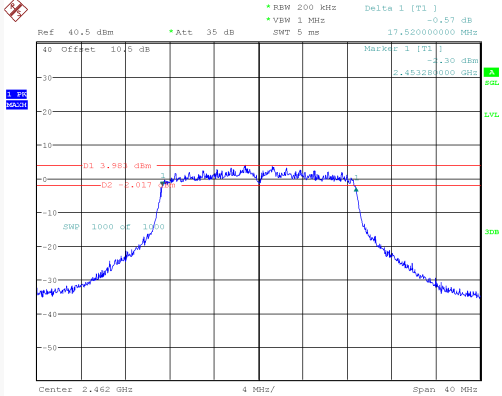
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 17:03:39

802.11n-HT20 Mode Middle Channel



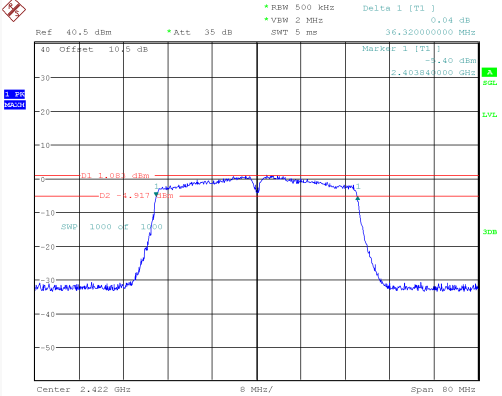
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 17:23:55

802.11n-HT20 Mode High Channel



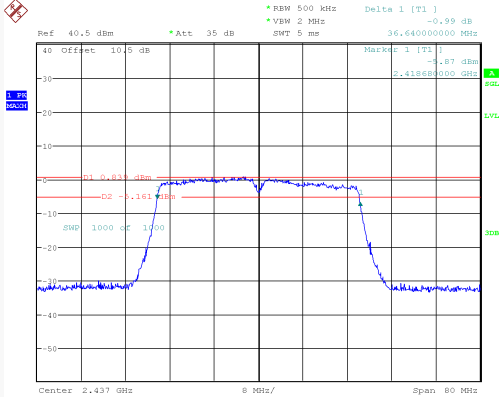
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 17:43:02

802.11n-HT40 Mode Low Channel



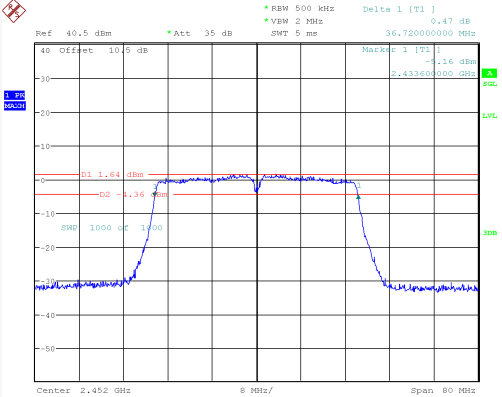
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 18:00:10

802.11n-HT40 Mode Middle Channel



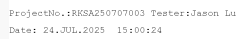
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 18:31:20

802.11n-HT40 Mode High Channel



ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 18:52:48

Low Channel



Middle Channel



High Channel



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

Test Date:	2025-07-24
Temperature:	24.7 °C
Relative Humidity:	54 %
ATM Pressure:	101.5kPa
Test Result:	Pass
Test Engineer:	Jason Lu

Test Result: Compliant.

EUT operation mode: Transmitting

For Wi-Fi Mode:

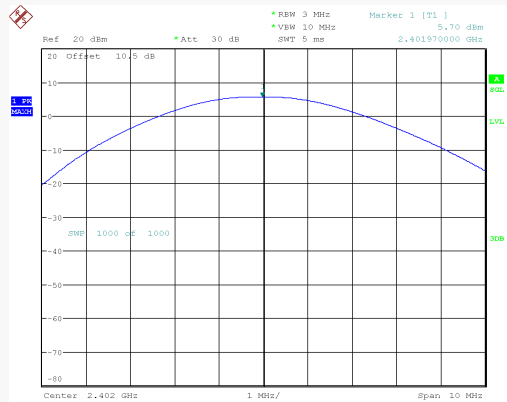
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Output Power Limit (dBm)
802.11b Mode				
Low	2412	19.14	17.01	≤30
Middle	2437	18.75	16.86	≤30
High	2462	19.23	17.84	≤30
802.11g Mode				
Low	2412	14.82	9.95	≤30
Middle	2437	14.59	9.73	≤30
High	2462	14.68	9.89	≤30
802.11n-HT20 Mode				
Low	2412	13.95	8.93	≤30
Middle	2437	13.79	8.80	≤30
High	2462	14.72	9.72	≤30
802.11n-HT40 Mode				
Low	2422	13.46	6.57	≤30
Middle	2437	14.04	6.91	≤30
High	2452	14.94	7.89	≤30

BLE Mode:

Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (1 Mbps)	Low	2402	5.70	≤ 30	Pass
	Middle	2440	5.59	≤ 30	Pass
	High	2480	5.20	≤ 30	Pass

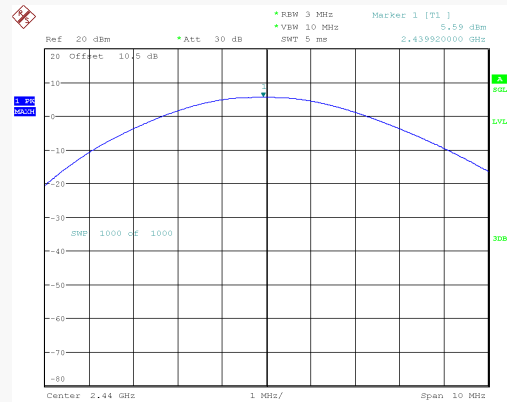
BLE (1 Mbps)

Low Channel



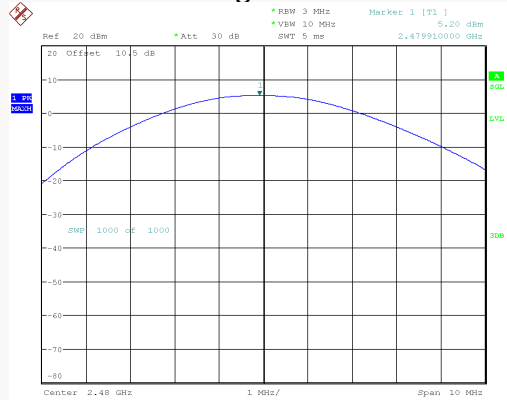
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 24.JUL.2025 14:06:29

Middle Channel



ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 24.JUL.2025 14:07:44

High Channel



ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 24.JUL.2025 14:09:16

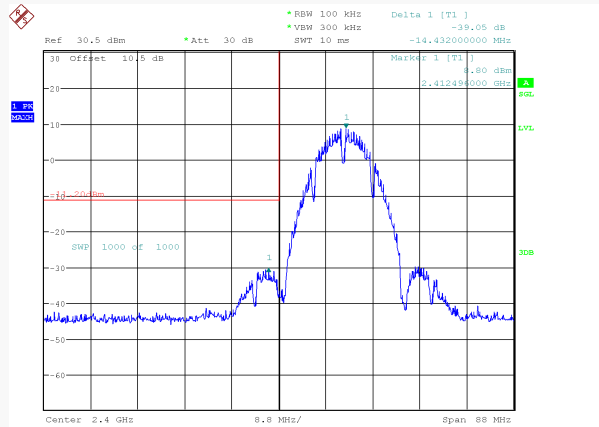
100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE**Environmental Conditions & Test Information**

Test Date:	2025-07-23 to 2025-07-24
Temperature:	24.5-24.7 °C
Relative Humidity:	52-54 %
ATM Pressure:	100.6-101.5kPa
Test Result:	Pass
Test Engineer:	Jason Lu

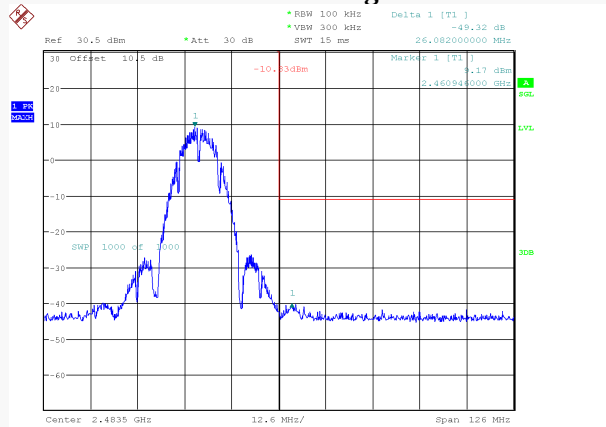
*EUT operation mode: Transmitting***Test Result:** Compliant

Mode	Channel	Test Frequency (MHz)	Result (dB)	Limit (dB)
802.11b	Low	2412	39.05	20
	High	2462	49.32	20
802.11g	Low	2412	30.17	20
	High	2462	44.31	20
802.11n20	Low	2412	29.86	20
	High	2462	44.29	20
802.11n40	Low	2422	35.98	20
	High	2452	38.61	20

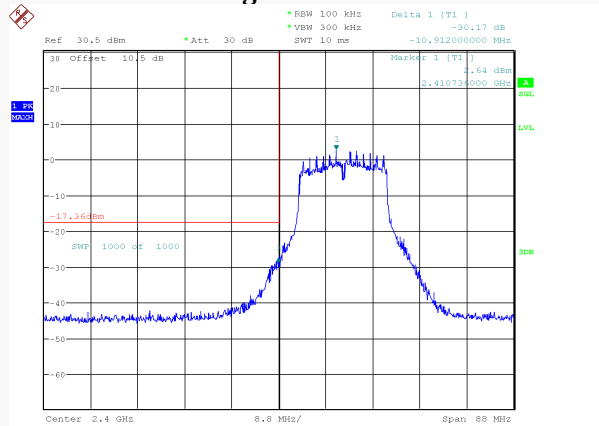
Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)
BLE (1 Mbps)	Low	2402	46.84	20
	High	2480	48.43	

For Wi-Fi Mode:**802.11b Mode Left Side**

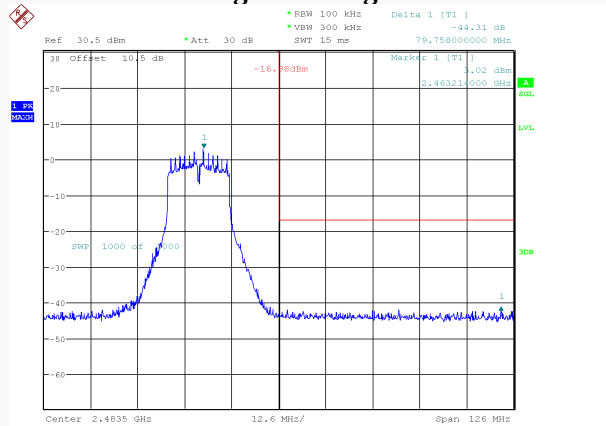
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:01:44

802.11b Mode Right Side

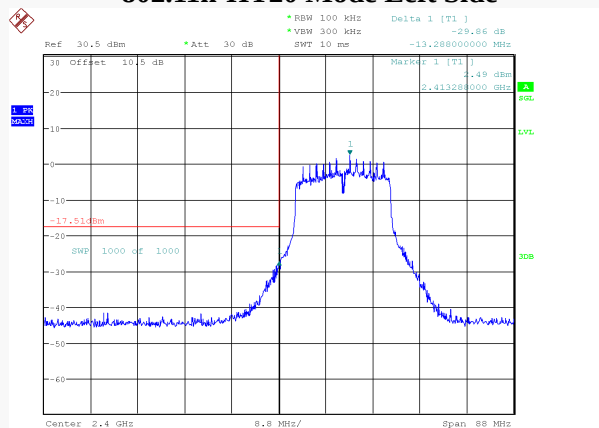
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:39:05

802.11g Mode Left Side

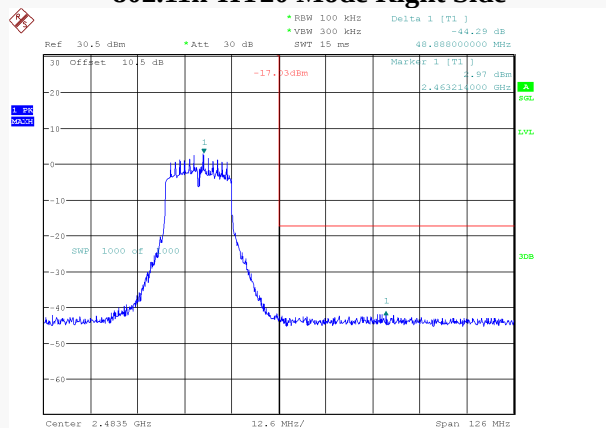
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:01:00

802.11g Mode Right Side

ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 16:43:39

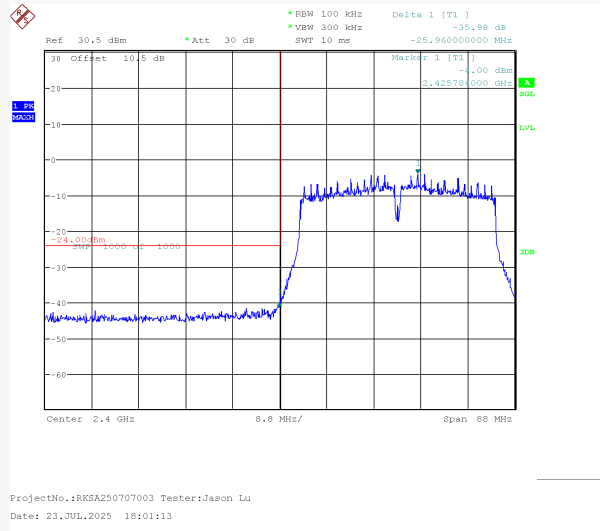
802.11n-HT20 Mode Left Side

ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 17:04:41

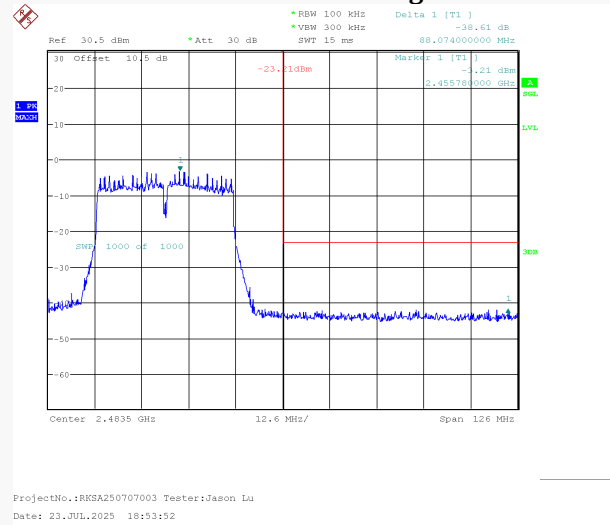
802.11n-HT20 Mode Right Side

ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 17:44:05

802.11n-HT40 Mode Left Side

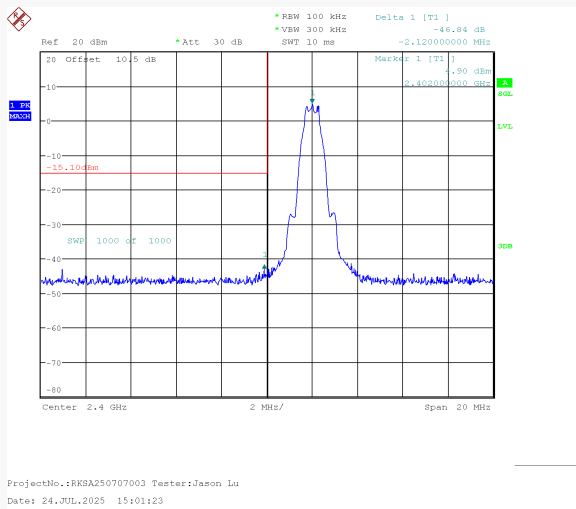


802.11n-HT40 Mode Right Side

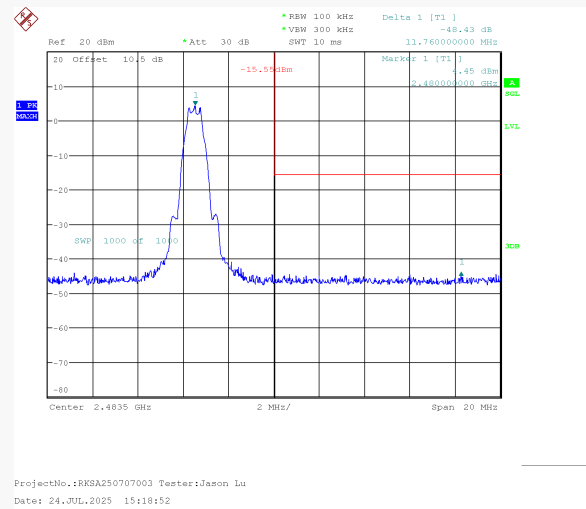


**For BLE Mode:
BLE (1 Mbps)**

Left Side



Right Side



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

Test Date:	2025-07-23 to 2025-07-24
Temperature:	24.5-24.7 °C
Relative Humidity:	52-54 %
ATM Pressure:	100.6-101.5kPa
Test Result:	Pass
Test Engineer:	Jason Lu

Test Result: Compliant.

EUT operation mode: Transmitting

For Wi-Fi Mode:

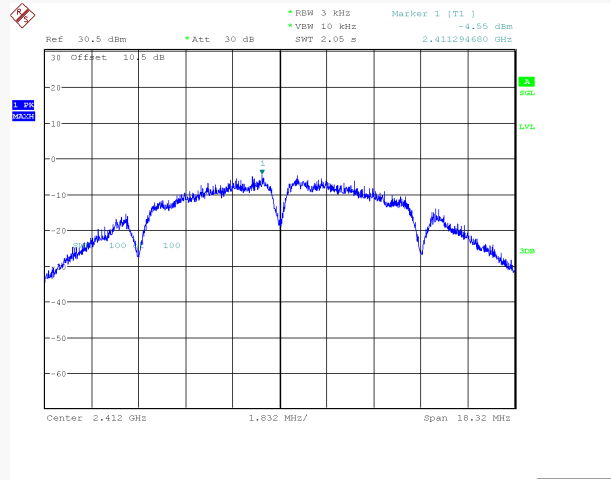
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b Mode				
Low	2412	-4.55	≤8	Pass
Middle	2437	-4.81	≤8	Pass
High	2462	-3.88	≤8	Pass
802.11g Mode				
Low	2412	-10.22	≤8	Pass
Middle	2437	-10.91	≤8	Pass
High	2462	-10.37	≤8	Pass
802.11n-HT20 Mode				
Low	2412	-12.26	≤8	Pass
Middle	2437	-12.13	≤8	Pass
High	2462	-11.62	≤8	Pass
802.11n-HT40 Mode				
Low	2422	-17.44	≤8	Pass
Middle	2437	-16.61	≤8	Pass
High	2452	-16.26	≤8	Pass

For BLE Mode:

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE (1 Mbps)	Low	2402	-9.78	≤ 8	Pass
	Middle	2440	-9.92	≤ 8	Pass
	High	2480	-10.22	≤ 8	Pass

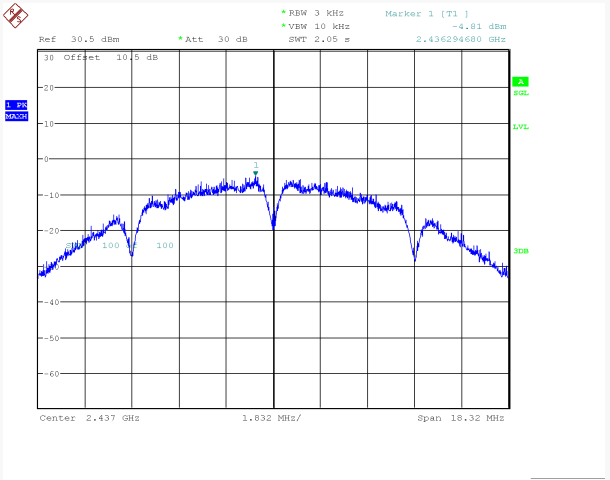
For Wi-Fi Mode:

802.11b Low Channel



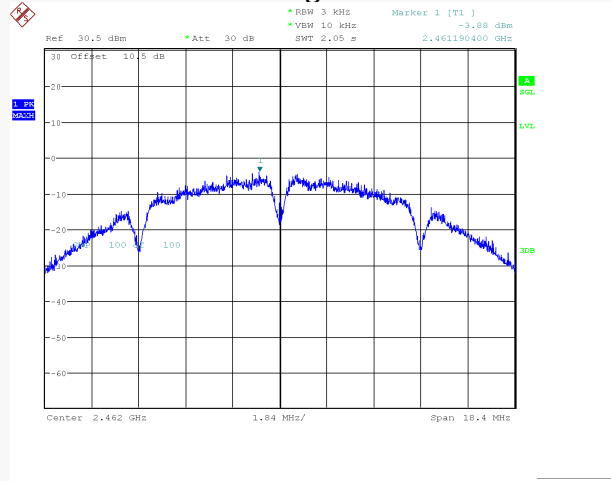
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:09:53

802.11b Middle Channel



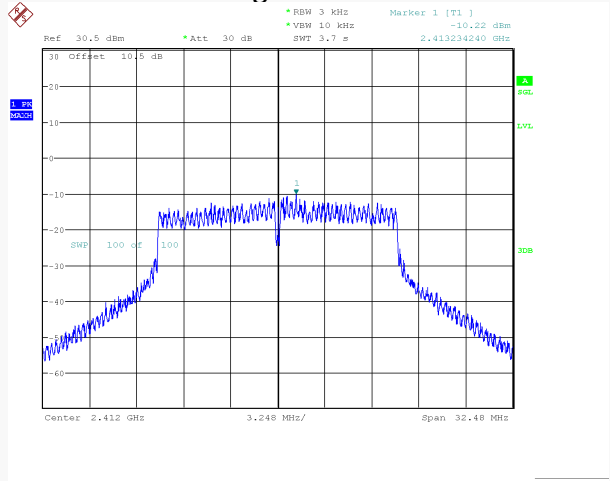
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:25:04

802.11b High Channel



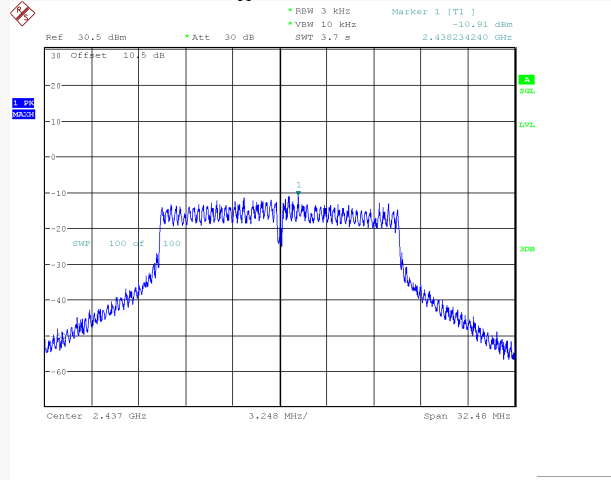
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 15:47:15

802.11g Low Channel



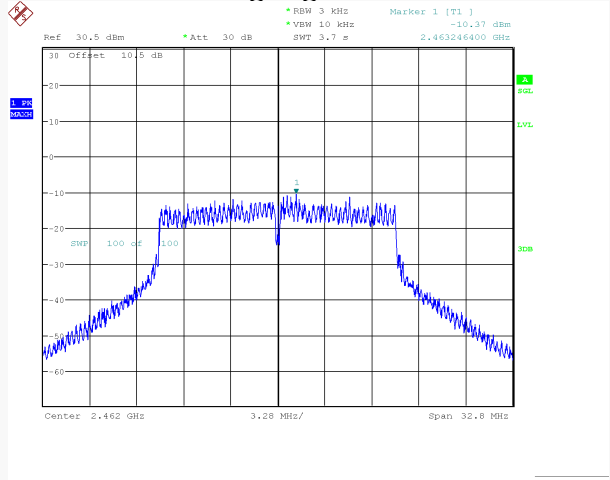
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 16:01:57

802.11g Middle Channel



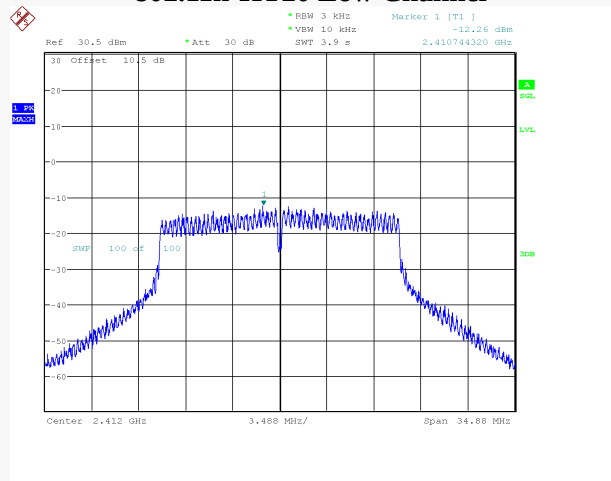
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 16:17:19

802.11g High Channel



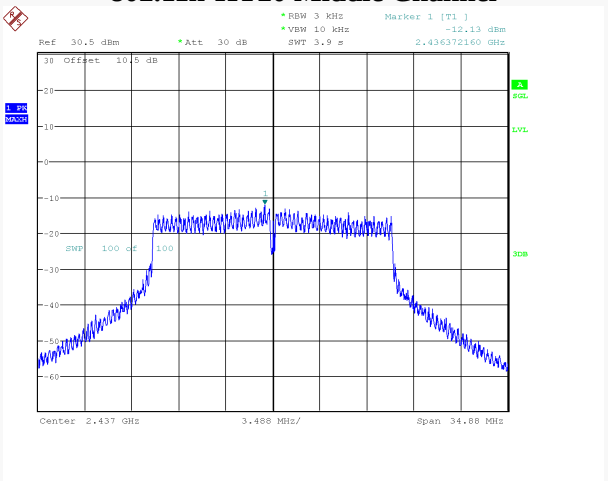
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 16:54:37

802.11n-HT20 Low Channel



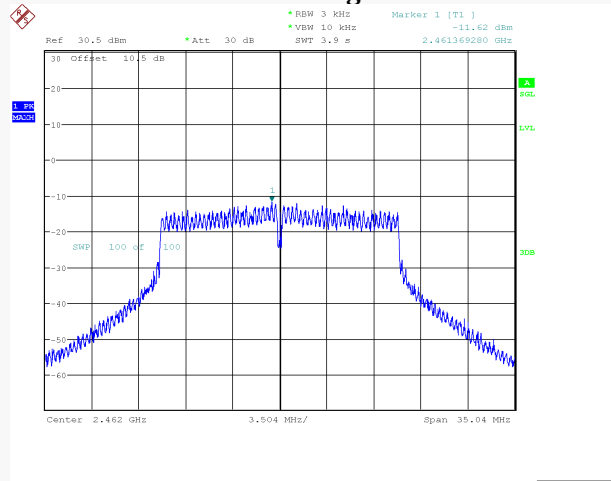
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 17:15:57

802.11n-HT20 Middle Channel



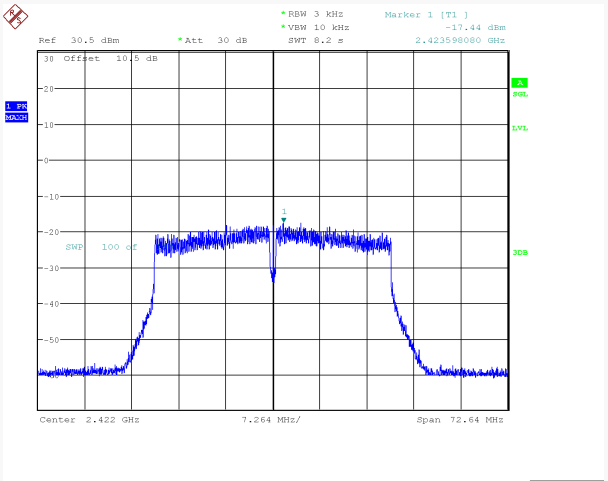
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 17:19:34

802.11n-HT20 High Channel



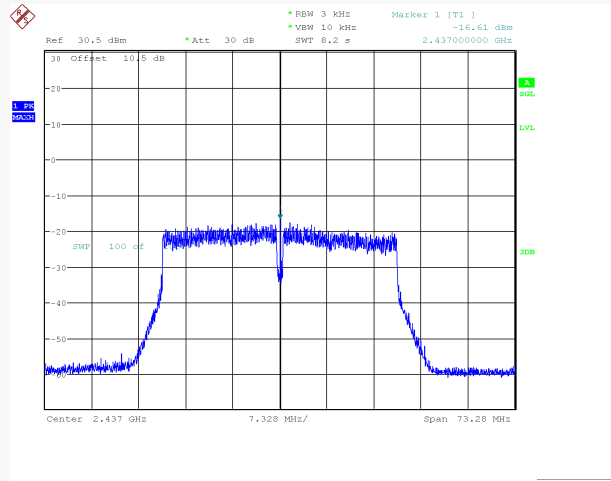
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 17:55:23

802.11n-HT40 Low Channel



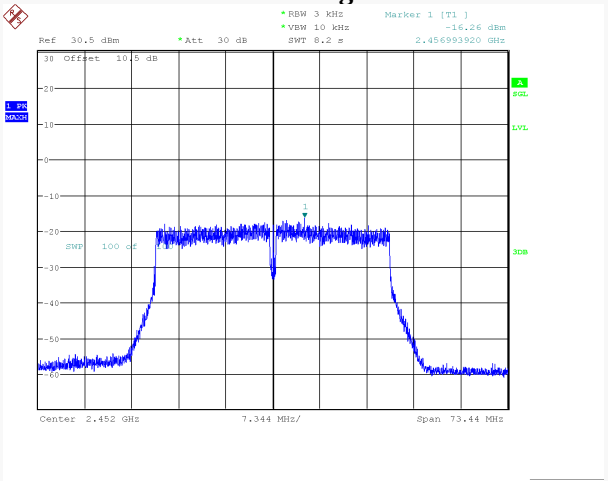
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 18:19:42

802.11n-HT40 Middle Channel



ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 18:50:28

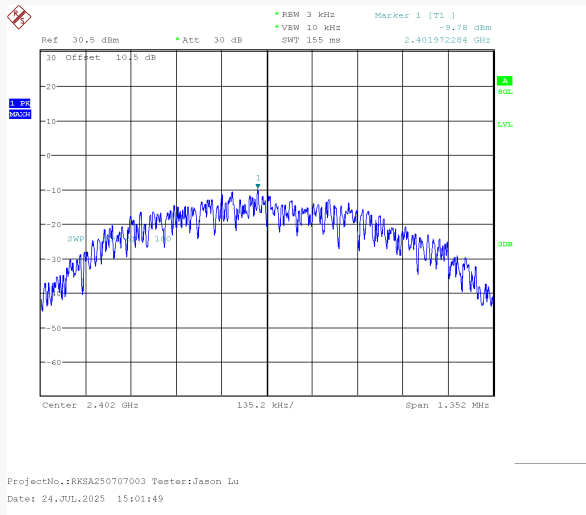
802.11n-HT40 High Channel



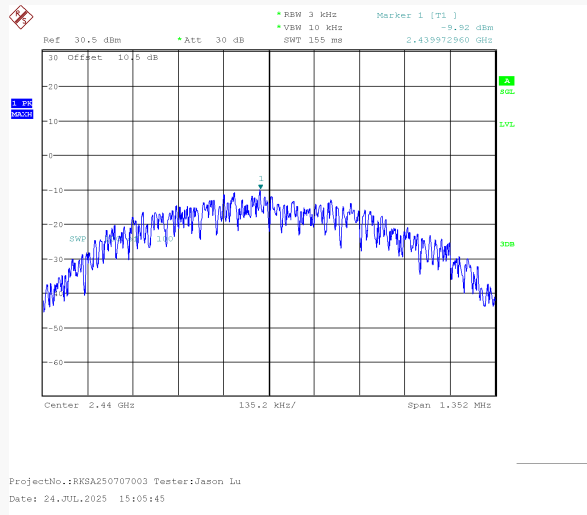
ProjectNo.:RKSA250707003 Tester:Jason Lu
Date: 23.JUL.2025 19:12:21

For BLE Mode:
BLE (1 Mbps)

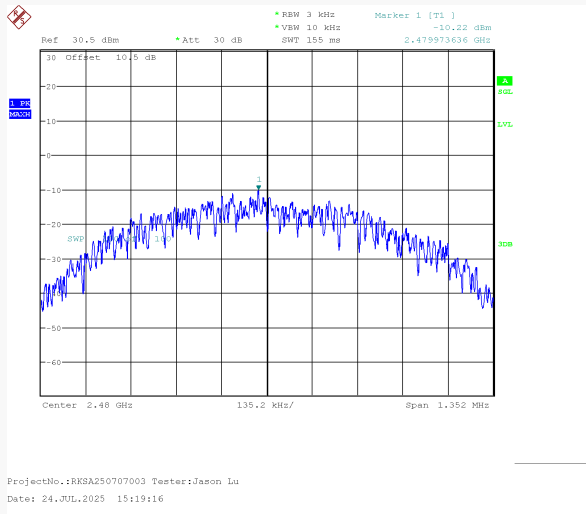
Low Channel



Middle Channel



High Channel



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.

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