

FCC PART 15.407

TEST REPORT

For

Shanghai Xiangcheng Communication Technology Co.,Ltd

6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China

FCC ID: 2A2UU-K1112

Report Type: Class II permissive change Report	Product Name: A6k Smart Payment Terminal
Report Number:	<u>RKSA251028001-00B</u>
Report Date:	<u>2025-11-13</u>
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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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DOCUMENT HISTORY

Revision	Release Data	Description of Revision	Report Number
R1V1	2025-10-31	Original Report	RKSA250728004-00C
R2V1	2025-11-13	Class II permissive change Report	RKSA251028001-00B

FILING DESCRIPTION

Report Number	Information about changes
RKSA250728004-00C	First Release
RKSA251028001-00B	Digital keyboard, Side key, Antenna bracket, WLAN antenna, WWAN main antenna

Note:

This is a C2PC report, based on Report Number RKSA250728004-00C, the details as below:

1. The digital keyboard area on the front cover has been removed and replaced with a full-screen design.
2. Add side keys.
3. Change the dimensions of the antenna bracket
4. Change the WWAN main antenna
5. Change the WLAN antenna
6. Add battery F50169TA, Manufacture is Guangdong Fenghua New Energy Co.,Ltd.
7. OLD Dimensions (L×W×H):160 × 81 × 65 mm, New Dimensions (L×W×H):170 × 78 × 64mm
8. Remove the key expansion chip
9. Remove the card slot on the side
10. The BLE/2.4G Wi-Fi Supports hotspot mode

For above changes, we “Spot Check with Maximum Conducted Output Power”, and tested “Conducted Emissions” and “Radiated Emissions” and update all the photos, other data was referred to the original report RKSA250728004-00C that issued on 2025-10-31 by BACL (Kunshan).

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Shanghai Xiangcheng Communication Technology Co.,Ltd		
Tested Model:	K1112		
Product Name:	A6k Smart Payment Terminal		
Power Supply:	DC 5V from USB port or DC 3.6V from battery		
▲Maximum Average Output Power:	5G Wi-Fi B1:	5G Wi-Fi B2:	5G Wi-Fi B4:
	802.11a: 11.88 dBm	12.24 dBm	11.55 dBm
	802.11ac20: 12.18 dBm	12.03 dBm	11.39 dBm
	802.11ac40: 11.77 dBm	11.71 dBm	11.47 dBm
	802.11ac80: 9.86 dBm	8.24 dBm	11.33 dBm
Operating Frequency:	5G Wi-Fi: B1: 5150-5250 MHz; B2: 5250-5350 MHz; B4: 5725-5850 MHz		
Channel Number:	5G Wi-Fi B1: 7; B2: 7; B4: 8		
Channel Separation:	802.11 a/ac20/n20: 20 MHz; 802.11ac40/n40: 40 MHz; 802.11ac80: 80 MHz		
Modulation Type:	OFDM		
Antenna Type:	FPC Antenna		
★Maximum Antenna Gain:	Band 1: 2.39 dBi Band 2: 3.21 dBi Band 4: 2.07 dBi		

Note▲: The changes will not affect test data, the data are referred to original report RKSA250728004-00C that issued on 2025-10-31 by BACL (Kunshan).

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: RKSA251028001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-10-28.)

Objective

This type approval report is prepared for *Shanghai Xiangcheng Communication Technology Co.,Ltd* in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions' rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Kunshan).

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
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℃
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

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

The system support 802.11a/n20/n40/ac20/ac40/ ac80, the 802.11 n20/n40 were reduced since the identical parameters with 802.11ac20 and ac40.

For **5150~5250 MHz** band, test channel list is as below,

802.11a/ac20 mode Channel 36, 40, 48 were tested.

802.11ac40 mode Channel 38, 46 were tested.

802.11ac80 mode Channel 42 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For **5250~5350 MHz** band, test channel list is as below,

802.11a/ac20 mode Channel 52, 60, 64 were tested.

802.11ac40 mode Channel 54, 62 were tested.

802.11ac80 mode Channel 58 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320
58	5290	/	/

For **5725~5850 MHz** band,

802.11a/ac20 mode Channel 149, 157, 165 were tested.

802.11ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	159	5795
151	5755	161	5805
153	5765	165	5825
155	5775	/	/
157	5785	/	/

EUT Exercise Software

Engineering Mode

The worst case was performed under:

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5150~5250MHz	802.11a	6Mbps	16	16	16
	802.11ac-VHT20	MCS0	16	16	16
	802.11ac-VHT40	MCS0	15	/	16
	802.11ac-VHT80	MCS0	/	14	/

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5250~5350MHz	802.11a	6Mbps	16	16	16
	802.11ac-VHT20	MCS0	16	16	16
	802.11ac-VHT40	MCS0	16	/	15
	802.11ac-VHT80	MCS0	/	13	/

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5725~5850MHz	802.11a	6Mbps	16	16	16
	802.11ac-VHT20	MCS0	16	16	16
	802.11ac-VHT40	MCS0	16	/	16
	802.11ac-VHT80	MCS0	/	16	/

Note: The power level was declared by the applicant.

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

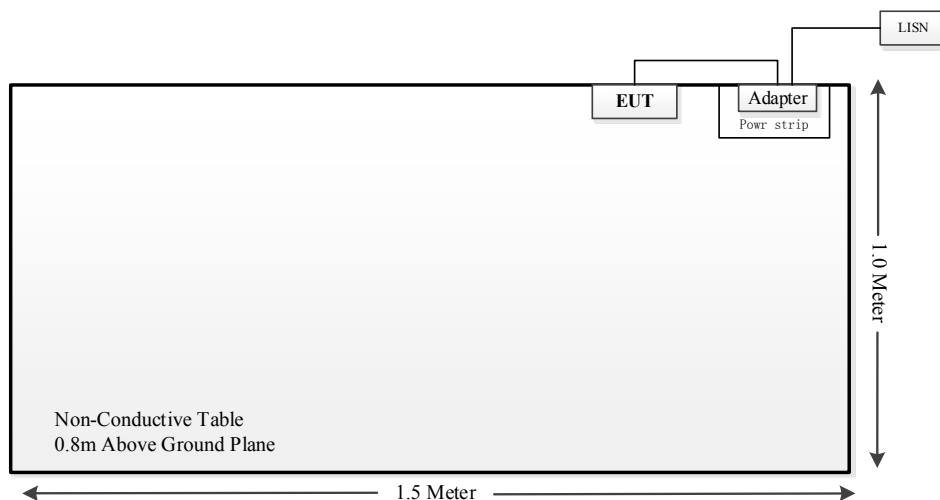
Manufacturer	Description	Model	Serial Number
Chongqing Lianmao Electronics Co.,Ltd	Adapter	LM-603U-050200U02UL	/
/	Power strip	/	/

External I/O Cable

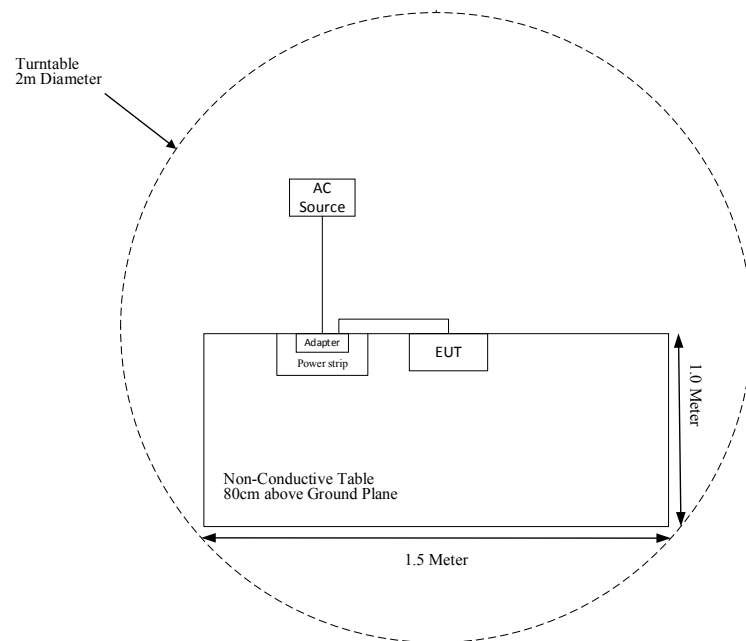
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	EUT	Adapter
Power Cable 2	1.0	Power strip	AC Source /LISN

Block Diagram of Test Setup

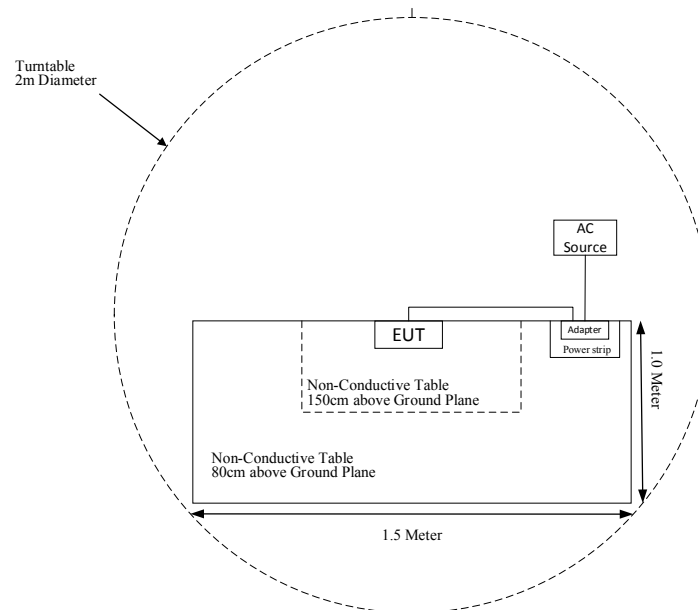
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1 GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result	Remark
§15.203	Antenna Requirement	Compliant	---
§15.207 & §15.407(b) (9)	AC Power Line Conducted Emissions	Compliant	---
§ 15.205 & §15.209 & §15.407(b)	Undesirable Emission & Restricted Bands	Compliant	---
§§15.407(a) & §15.407(e)	Emission Bandwidth	---	See Note▲
§15.407(a)	Conducted Transmitter Output Power	Report only	---
§15.407(a)	Power Spectral Density	---	See Note▲
§1.1307(b)(1)& §2.1093	RF EXPOSURE	Compliant	---
§15.407(h)	Dynamic Frequency Selection (DFS)	---	See Note◆

Note▲: The changes will not affect test data, the data are referred to original report RKSA250728004-00C that issued on 2025-10-31 by BACL (Kunshan).

Note◆: The changes will not affect test data, the data are referred to original report RKSA250728004-00F that issued on 2025-09-11 by BACL (Kunshan).

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	BRM50716	G059	2025-04-08	2026-04-07
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Anritsu	Power Sensor	MA24418A	12621	2025-04-09	2026-04-08
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

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

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

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

Applicable Standard

FCC§1.1307, §2.1093.

Measurement Result

Result: Please refer to the SAR report: RKSA251028001-20B.

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 compliance 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 15.407, 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

Antenna permanently attached to the unit. fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Frequency Range	Max. Antenna Gain	Input impedance
FPC	5150~5250 MHz	2.39 dBi	50Ω
	5250~5350 MHz	3.21 dBi	50Ω
	5725~5850 MHz	2.07 dBi	50Ω

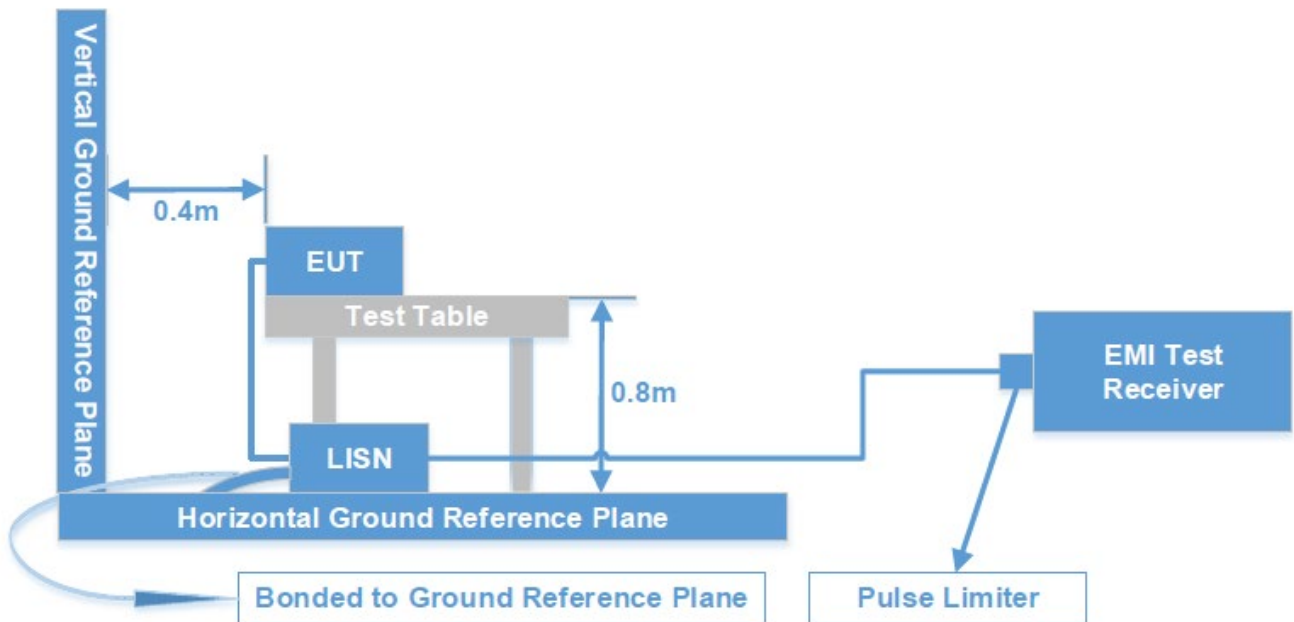
Result: Compliant.

FCC §15.407 (b) (9) §15.207 (a) – AC POWER LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a), §15.407(b) (9)

Test System Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

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

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

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

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

Level & Over Limit Calculation

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

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

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

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

Test Results Summary

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

Test Data: See Appendix

§15.205 & §15.209 & §15.407(B) – UNDESIRABLE EMISSION & RESTRICTED BANDS

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

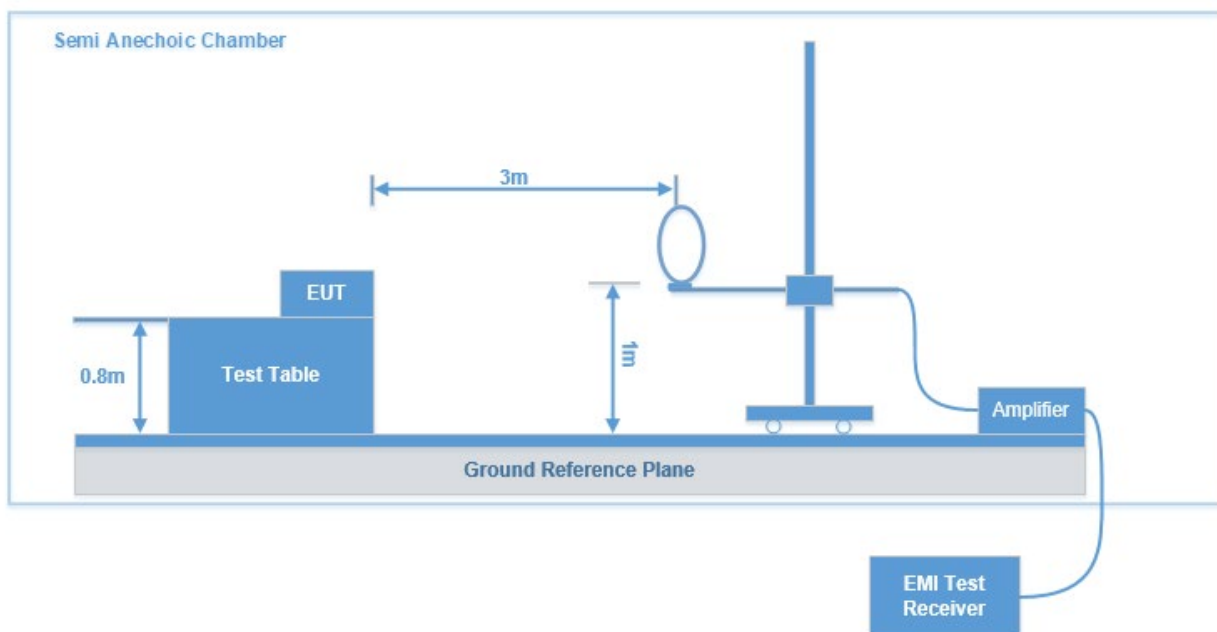
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000MHz shall be performed using a minimum resolution bandwidth of 1MHz.

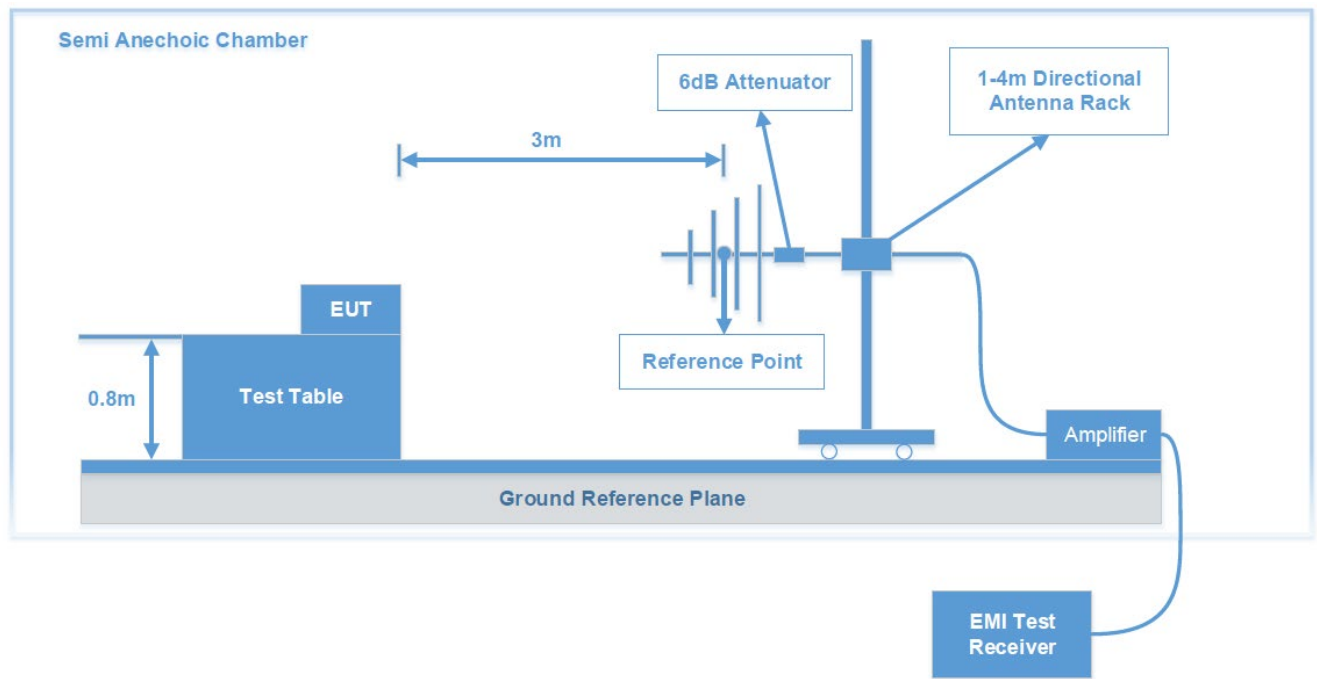
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [dB\mu V/m] = EIRP [dBm] + 95.2$, for $d = 3$ meters.

Test System Setup

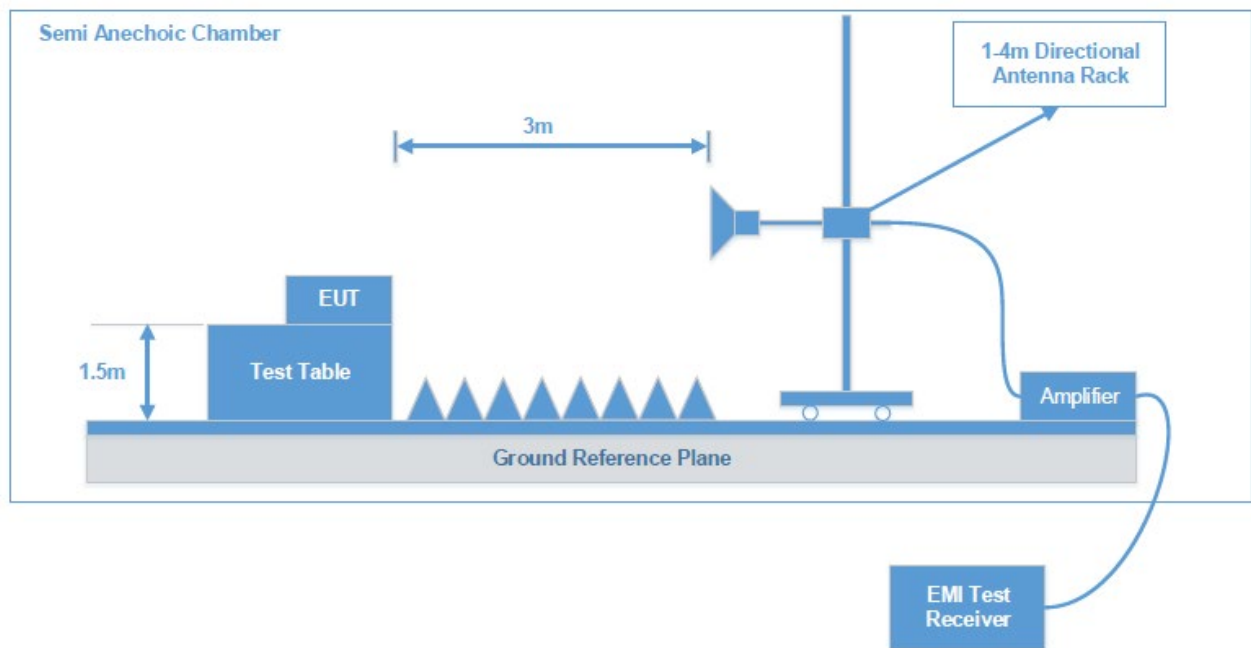
9kHz-30 MHz:



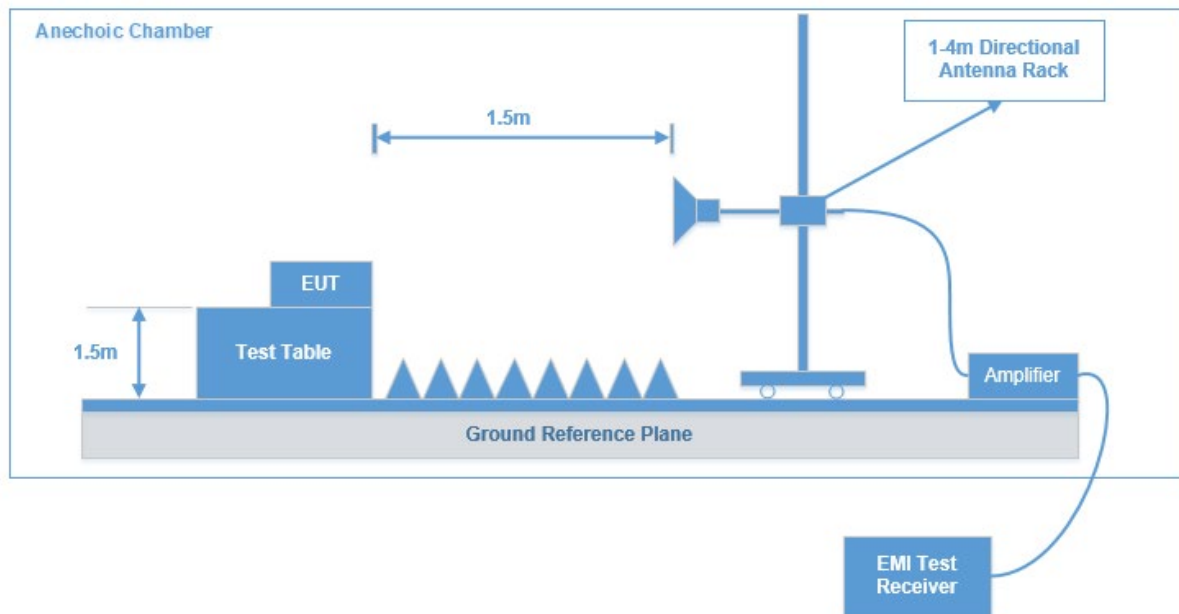
30MHz-1GHz:



1 GHz-18GHz:



18-40GHz:



The radiated emission tests were performed in the 3 meters test site for below 18GHz and 1.5m for 18-40 GHz, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.407 limits. The limit at 1.5m for 18-40 GHz is 80dB μ V/m (Peak) and 60dB μ V/m (Average).

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 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

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

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

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.

Test Procedure

During the radiated emission test, the adapter was connected to AC floor outlet. 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.

Corrected Amplitude & Margin Calculation

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

$$\text{Corrected Amplitude (dB}\mu\text{V/m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Corrected factor (dB/m)}$$

$$\text{Corrected factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

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

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

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

Test Data: See Appendix

FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

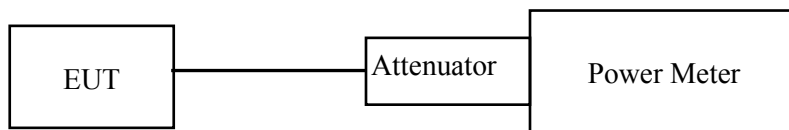
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



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

Test Data: See Appendix

APPENDIX - TEST DATA

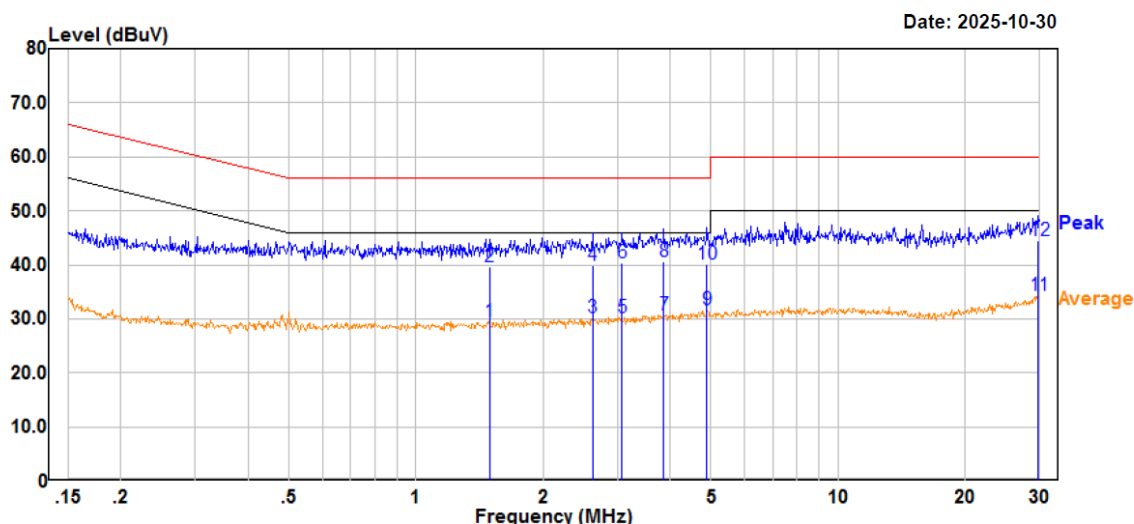
CONDUCTED EMISSIONS

Environmental Conditions & Test Information

Test Date:	2025-10-30
Temperature:	22.8 °C
Relative Humidity:	58 %
ATM Pressure:	102.1 kPa
Test Result:	Pass
Test Engineer:	Jack He

EUT operation mode: Transmitting in 802.11a mode 5300MHz (maximum output power)

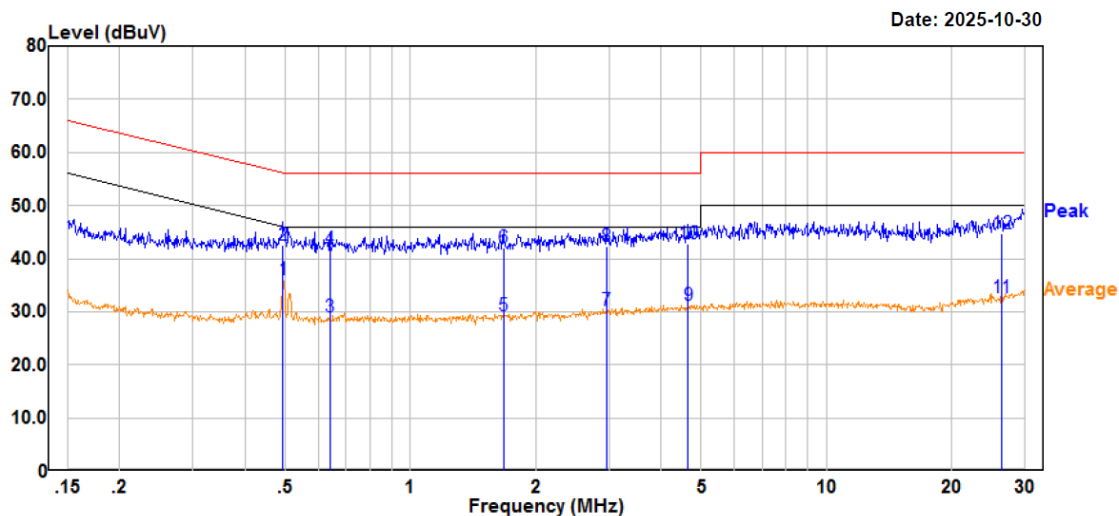
AC 120V/60 Hz, Line



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Line
: DET:Peak
Project No. : RKSA251028001
Model : K1112
Phase : L
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 22.8℃
Humidity : 58%
Atmospheric pressure: 102.1kPa
Test Engineer : Jack He

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	1.493	9.20	20.24	29.44	46.00	-16.56	Average
2	1.493	19.30	20.24	39.54	56.00	-16.46	QP
3	2.622	9.89	20.27	30.16	46.00	-15.84	Average
4	2.622	19.69	20.27	39.96	56.00	-16.04	QP
5	3.075	10.10	20.24	30.34	46.00	-15.66	Average
6	3.075	20.20	20.24	40.44	56.00	-15.56	QP
7	3.868	10.40	20.19	30.59	46.00	-15.41	Average
8	3.868	20.40	20.19	40.59	56.00	-15.41	QP
9	4.889	11.60	20.14	31.74	46.00	-14.26	Average
10	4.889	20.10	20.14	40.24	56.00	-15.76	QP
11	29.851	13.60	20.71	34.31	50.00	-15.69	Average
12	29.851	23.70	20.71	44.41	60.00	-15.59	QP

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Neutral
: DET:Peak
Project No. : RKSA251028001
Model : K1112
Phase : N
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 22.8°C
Humidity : 58%
Atmospheric pressure: 102.1kPa
Test Engineer : Jack He

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.494	15.90	20.21	36.11	46.11	-10.00	Average
2	0.494	22.30	20.21	42.51	56.11	-13.60	QP
3	0.640	8.70	20.23	28.93	46.00	-17.07	Average
4	0.640	21.60	20.23	41.83	56.00	-14.17	QP
5	1.674	9.01	20.24	29.25	46.00	-16.75	Average
6	1.674	21.91	20.24	42.15	56.00	-13.85	QP
7	2.955	10.10	20.24	30.34	46.00	-15.66	Average
8	2.955	22.00	20.24	42.24	56.00	-13.76	QP
9	4.651	10.90	20.17	31.07	46.00	-14.93	Average
10	4.651	22.70	20.17	42.87	56.00	-13.13	QP
11	26.354	12.00	20.68	32.68	50.00	-17.32	Average
12	26.354	24.10	20.68	44.78	60.00	-15.22	QP

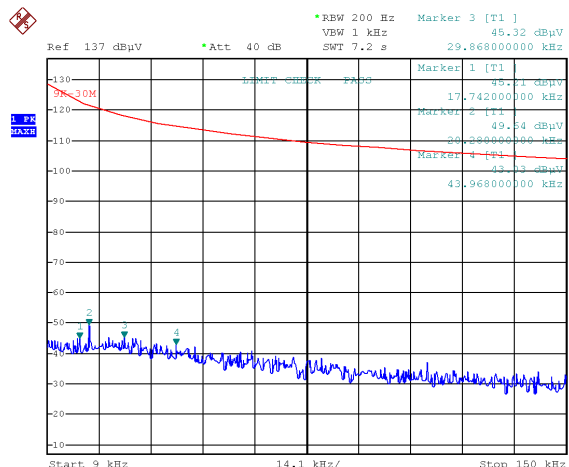
TRANSMITTER UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS**Environmental Conditions & Test Information**

Test Item:	SPURIOUS EMISSIONS			
	9kHz – 30MHz	30MHz - 1GHz	1 GHz - 18 GHz	18 GHz - 40 GHz
Test Date:	2025-11-01	2025-11-01	2025-10-31	2025-11-03
Temperature:	21.0 °C	21.0 °C	22.1 °C	24.6 °C
Relative Humidity:	50 %	50 %	53 %	49 %
ATM Pressure:	102.3 kPa	102.3 kPa	102.3 kPa	101.5 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

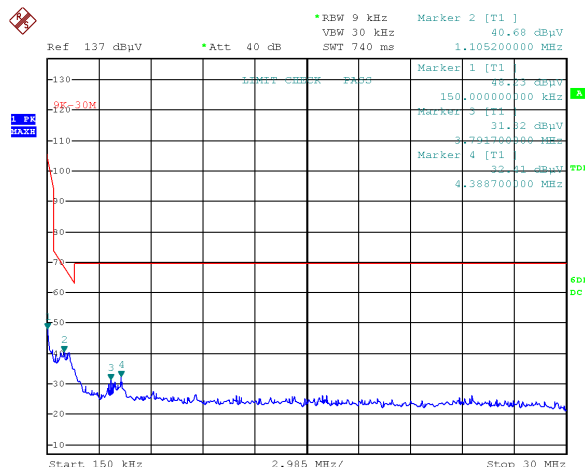
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**9 kHz-30 MHz: Transmitting in 802.11a mode 5300MHz (maximum output power)
Parallel(worst case)**

9kHz-150kHz



150kHz-30MHz



Project No.RKSA251028001
Date: 1.NOV.2025 11:33:16

Tester:Scarff Yang

Project No.RKSA251028001
Date: 1.NOV.2025 11:36:33

Tester:Scarff Yang

9kHz-150kHz

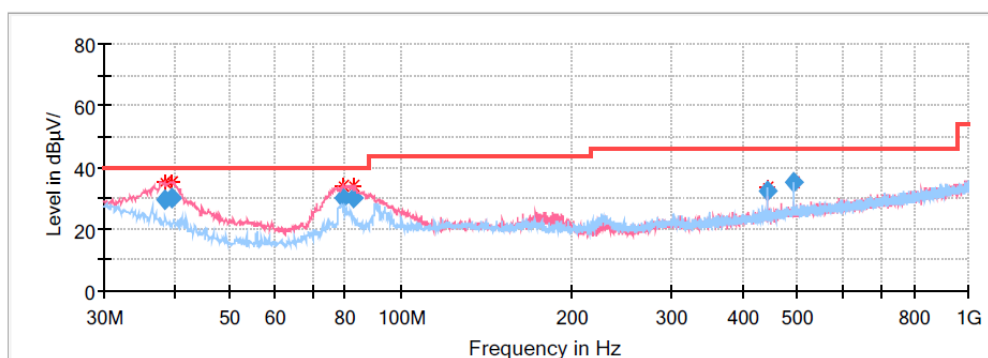
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
17.74	45.21	PK	-0.55	122.63	77.42
20.28	49.64	PK	-0.56	121.46	71.82
29.87	45.32	PK	-0.61	118.10	72.78
43.97	43.03	PK	-2.85	114.74	71.71

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15	48.23	PK	-11.34	104.08	55.85
1.11	40.68	PK	-27.97	66.70	26.02
3.79	31.32	PK	-31.81	69.54	38.22
4.39	32.41	PK	-31.97	69.54	37.13

30MHz-1GHz: Transmitting in 802.11a mode 5300MHz (maximum output power)**Common Information**

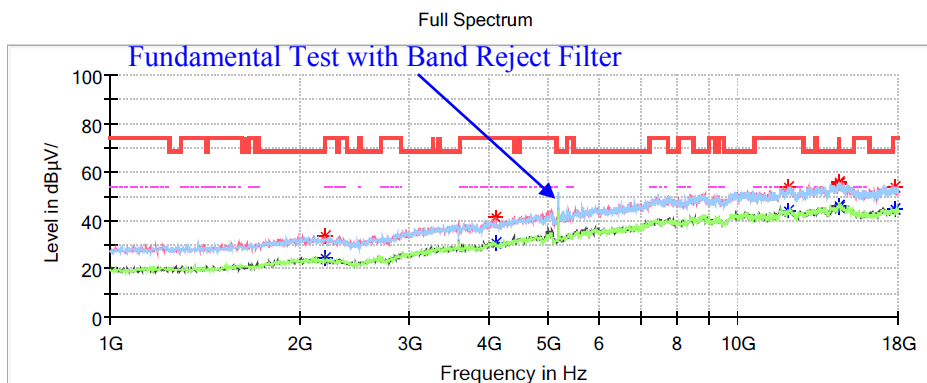
Project No: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 21.0°C
Humidity: 50%
Barometric Pressure: 102.3kPa
Test Engineer: Scarf Yang
Test Date: 2025/11/01

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
38.366250	29.51	40.00	10.49	V	-10.3
39.457500	29.99	40.00	10.01	V	-11.0
79.348750	30.20	40.00	9.80	V	-17.1
82.865000	30.30	40.00	9.70	V	-17.1
442.007500	32.14	46.00	13.86	H	-6.9
494.023750	35.24	46.00	10.76	H	-5.5

1GHz-18GHz (5150-5250MHz Band):**802.11a Mode:****Low Channel: 5180MHz****Common Information**

Project No.: RKSA251028001
 EUT Model: K1112
 Test Mode: 5G WIFI 802.11a mode Low Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1°C
 Humidity: 53%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/31

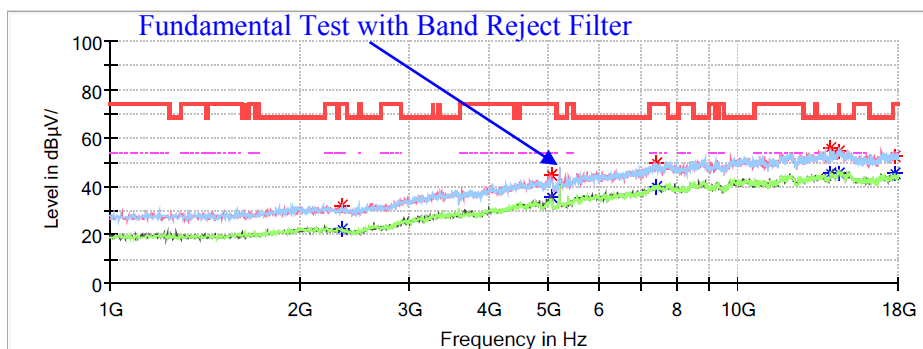
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2200.200000	---	24.14	54.00	29.86	V	-9.8
2200.200000	33.26	---	74.00	40.74	V	-9.8
4111.000000	---	30.71	54.00	23.29	H	-4.8
4111.000000	41.10	---	74.00	32.90	H	-4.8
12060.200000	---	43.92	54.00	10.08	H	9.0
12060.200000	54.09	---	74.00	19.91	H	9.0
14498.000000	55.60	---	74.00	18.40	V	12.0
14498.000000	---	46.41	54.00	7.59	V	12.0
14532.000000	55.54	---	68.20	12.66	H	11.9
17775.600000	53.81	---	74.00	20.19	V	11.2
17775.600000	---	44.80	54.00	9.20	V	11.2

Middle Channel: 5200MHz**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

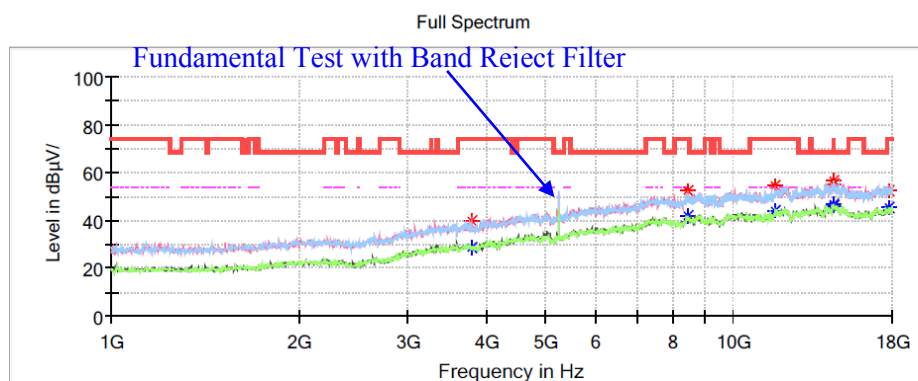
Full Spectrum

**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)
2339.600000	---	22.03	54.00	31.97	V	-9.7
2339.600000	32.47	---	74.00	41.53	V	-9.7
5042.600000	---	35.79	54.00	18.21	V	-2.8
5042.600000	44.58	---	74.00	29.42	V	-2.8
7432.800000	---	39.75	54.00	14.25	H	2.8
7432.800000	49.39	---	74.00	24.61	H	2.8
14008.400000	56.10	---	68.20	12.10	H	11.1
14498.000000	---	45.38	54.00	8.62	V	12.0
14498.000000	54.56	---	74.00	19.44	V	12.0
17785.800000	52.52	---	74.00	21.48	V	11.2
17785.800000	---	45.58	54.00	8.42	V	11.2

High Channel: 5240MHz**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

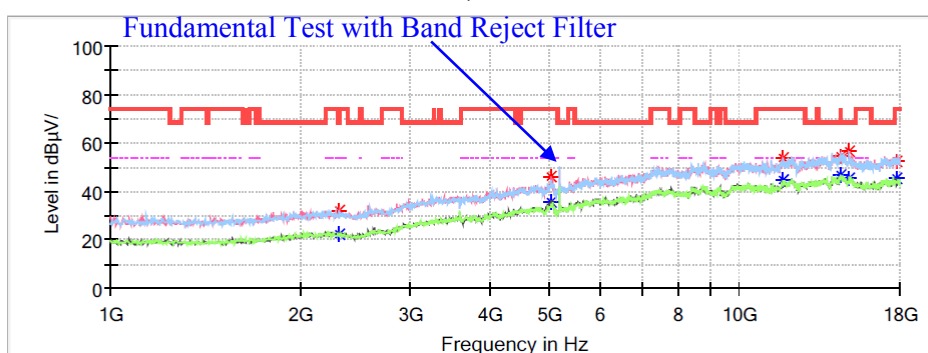
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
3784.600000	---	28.96	54.00	25.04	V	-5.5
3784.600000	39.67	---	74.00	34.33	V	-5.5
8429.000000	---	41.87	54.00	12.13	V	4.5
8429.000000	52.15	---	74.00	21.85	V	4.5
11642.000000	---	44.16	54.00	9.84	V	8.4
11642.000000	54.22	---	74.00	19.78	V	8.4
14443.600000	55.59	---	68.20	12.61	V	11.9
14498.000000	---	46.59	54.00	7.41	H	12.0
14498.000000	56.36	---	74.00	17.64	H	12.0
17728.000000	52.46	---	74.00	21.54	H	11.0
17728.000000	---	45.64	54.00	8.36	H	11.0

802.11ac20 Mode:**Low Channel: 5180MHz****Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1℃
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

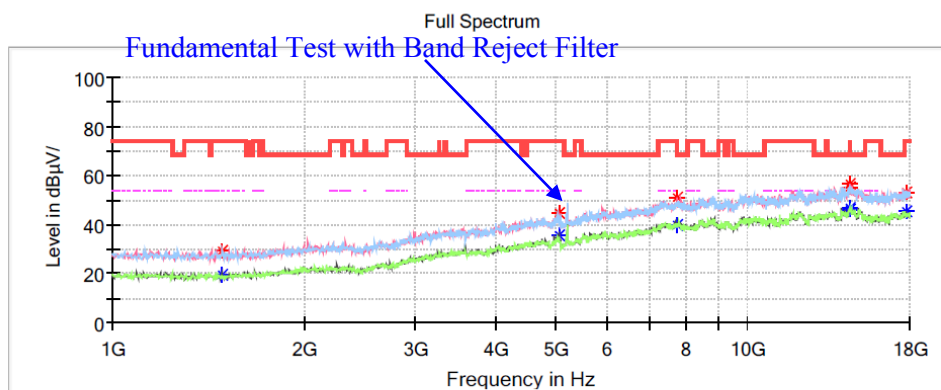
Full Spectrum

**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)
2312.400000	---	22.23	54.00	31.77	H	-9.7
2312.400000	32.09	---	74.00	41.91	H	-9.7
5018.800000	---	35.57	54.00	18.43	V	-2.9
5018.800000	46.23	---	74.00	27.77	V	-2.9
11754.200000	---	44.68	54.00	9.32	V	8.6
11754.200000	53.84	---	74.00	20.16	V	8.6
14494.600000	54.39	---	74.00	19.61	V	12.0
14494.600000	---	46.62	54.00	7.38	V	12.0
14926.400000	56.60	---	68.20	11.60	H	10.5
17806.200000	52.76	---	74.00	21.24	V	11.2
17806.200000	---	45.46	54.00	8.54	V	11.2

Middle Channel: 5200MHz**Common Information**

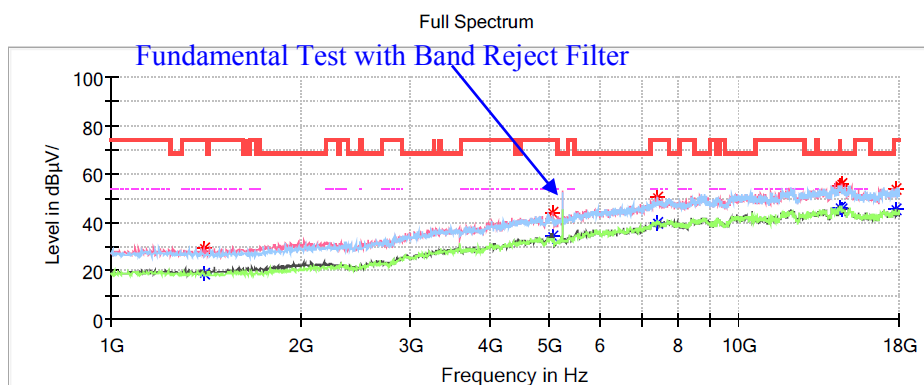
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
1489.600000	---	19.46	54.00	34.54	V	-13.5
1489.600000	29.30	---	74.00	44.70	V	-13.5
5046.000000	---	35.51	54.00	18.49	V	-2.8
5046.000000	44.58	---	74.00	29.42	V	-2.8
7725.200000	---	39.65	54.00	14.35	V	3.1
7725.200000	50.84	---	74.00	23.16	V	3.1
14477.600000	55.24	---	74.00	18.76	H	11.9
14477.600000	---	46.81	54.00	7.19	H	11.9
14515.000000	56.38	---	68.20	11.82	V	11.9
17768.800000	53.40	---	74.00	20.60	V	11.1
17768.800000	---	45.26	54.00	8.74	V	11.1

High Channel: 5240MHz**Common Information**

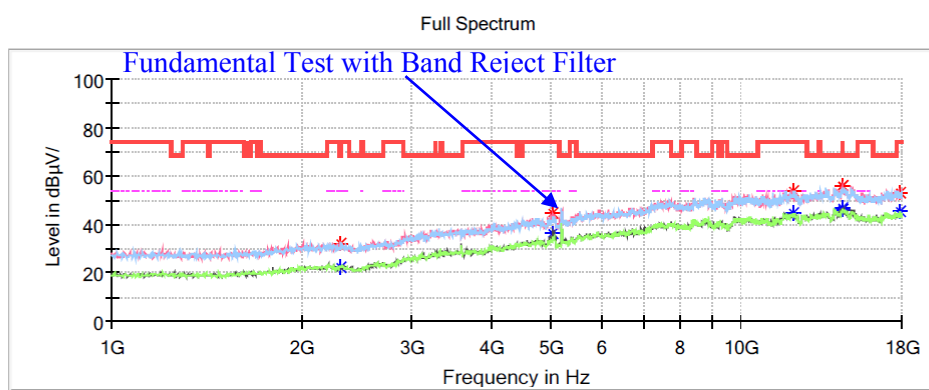
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
1404.600000	---	18.98	54.00	35.02	V	-13.8
1404.600000	29.54	---	74.00	44.46	V	-13.8
5039.200000	---	34.09	54.00	19.91	V	-2.8
5039.200000	43.73	---	74.00	30.27	V	-2.8
7402.200000	---	40.13	54.00	13.87	H	2.7
7402.200000	50.29	---	74.00	23.71	H	2.7
14498.000000	55.38	---	74.00	18.62	H	12.0
14498.000000	---	46.04	54.00	7.96	H	12.0
14576.200000	55.63	---	68.20	12.57	V	11.7
17755.200000	53.71	---	74.00	20.29	H	11.1
17755.200000	---	45.22	54.00	8.78	H	11.1

802.11ac40 Mode:**Channel: 5190MHz****Common Information**

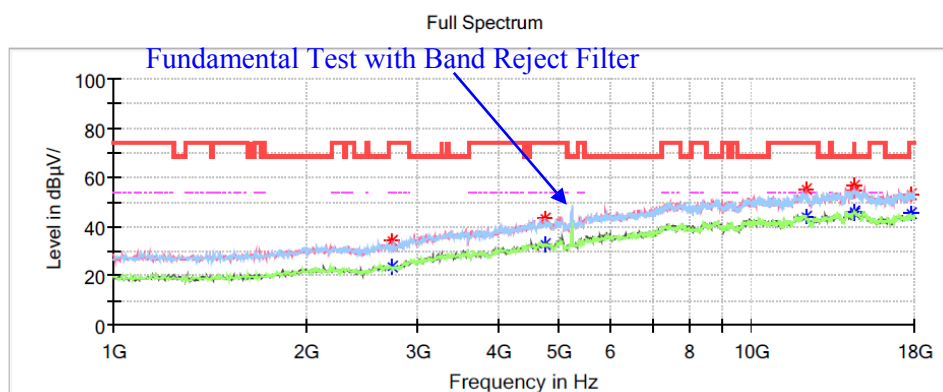
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
2315.800000	---	22.57	54.00	31.43	V	-9.7
2315.800000	32.45	---	74.00	41.55	V	-9.7
5008.600000	---	36.03	54.00	17.97	V	-2.9
5008.600000	44.63	---	74.00	29.37	V	-2.9
12128.200000	---	44.62	54.00	9.38	V	9.0
12128.200000	53.92	---	74.00	20.08	V	9.0
14443.600000	55.70	---	68.20	12.50	V	11.9
14498.000000	---	46.85	54.00	7.15	V	12.0
14498.000000	55.97	---	74.00	18.03	V	12.0
17840.200000	53.07	---	74.00	20.93	H	11.3
17840.200000	---	45.27	54.00	8.73	H	11.3

Channel: 5230MHz**Common Information**

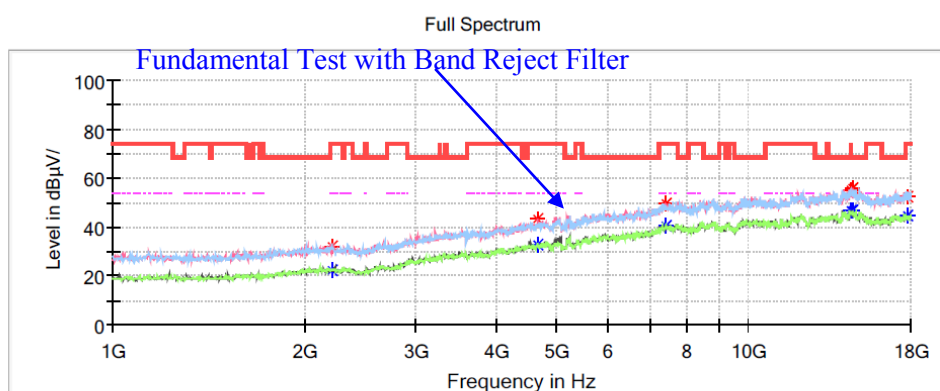
Project No.: RKSA251028001
 EUT Model: K1112
 Test Mode: 5G WIFI 802.11ac40 mode High Channel
 Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1°C
 Humidity: 53%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/31

**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)
2734.000000	---	23.57	54.00	30.43	H	-8.8
2734.000000	34.24	---	74.00	39.76	H	-8.8
4750.200000	---	32.83	54.00	21.17	H	-3.5
4750.200000	43.65	---	74.00	30.35	H	-3.5
12158.800000	---	43.79	54.00	10.21	V	9.0
12158.800000	55.22	---	74.00	18.78	V	9.0
14498.000000	54.47	---	74.00	19.53	V	12.0
14498.000000	---	45.64	54.00	8.36	V	12.0
14521.800000	56.95	---	68.20	11.25	H	11.9
17789.200000	53.06	---	74.00	20.94	H	11.2
17789.200000	---	45.40	54.00	8.60	H	11.2

802.11ac80 Mode:**Channel: 5210MHz****Common Information**

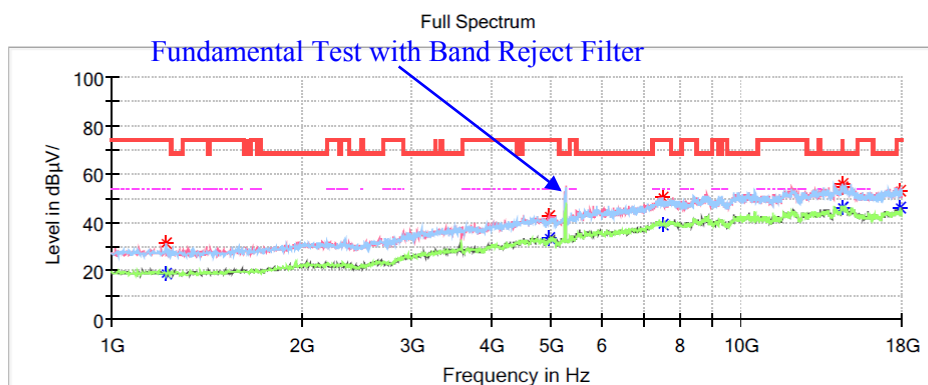
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac80
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
2207.000000	---	22.29	54.00	31.71	H	-9.8
2207.000000	32.26	---	74.00	41.74	H	-9.8
4665.200000	---	32.74	54.00	21.26	H	-3.8
4665.200000	43.46	---	74.00	30.54	H	-3.8
7405.600000	---	40.60	54.00	13.40	V	2.7
7405.600000	49.69	---	74.00	24.31	V	2.7
14491.200000	55.09	---	74.00	18.91	H	12.0
14491.200000	---	46.89	54.00	7.11	H	12.0
14549.000000	55.87	---	68.20	12.33	V	11.8
17809.600000	52.35	---	74.00	21.65	V	11.3
17809.600000	---	44.78	54.00	9.22	V	11.3

1GHz-18GHz(5250-5350MHz Band):**802.11a Mode:****Low Channel: 5260MHz****Common Information**

Project No.: RKSA251028001
 EUT Model: K1112
 Test Mode: 5G WIFI 802.11a mode Low Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1℃
 Humidity: 53%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/31

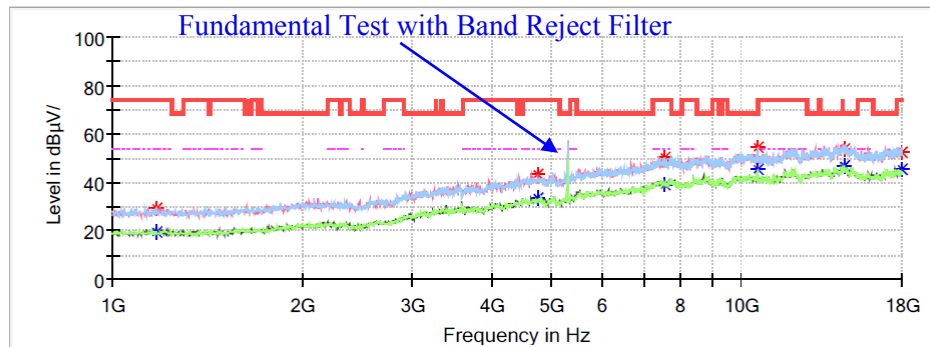
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1217.600000	---	19.14	54.00	34.86	H	-14.4
1217.600000	31.16	---	74.00	42.84	H	-14.4
4940.600000	---	33.31	54.00	20.69	V	-3.1
4940.600000	42.84	---	74.00	31.16	V	-3.1
7504.200000	---	39.44	54.00	14.56	V	3.0
7504.200000	50.44	---	74.00	23.56	V	3.0
14498.000000	54.81	---	74.00	19.19	H	12.0
14498.000000	---	46.20	54.00	7.80	H	12.0
14501.400000	56.02	---	68.20	12.18	H	12.0
17918.400000	53.04	---	74.00	20.96	V	11.5
17918.400000	---	45.90	54.00	8.10	V	11.5

Middle Channel: 5300MHz**Common Information**

Project No.: RKSA251028001
 EUT Model: K1112
 Test Mode: 5G WIFI 802.11a mode Middle Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1℃
 Humidity: 53%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/31

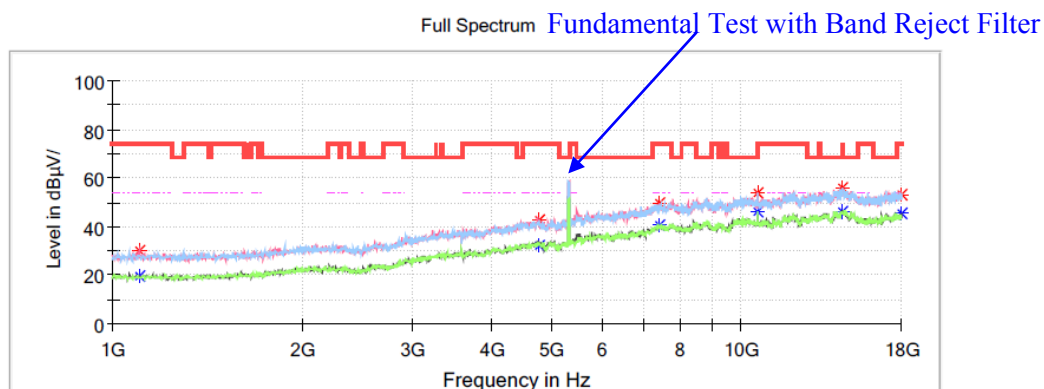
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
1173.400000	---	19.81	54.00	34.19	V	-14.6
1173.400000	29.68	---	74.00	44.32	V	-14.6
4750.200000	---	33.63	54.00	20.37	V	-3.5
4750.200000	43.63	---	74.00	30.37	V	-3.5
7565.400000	---	39.34	54.00	14.66	H	3.0
7565.400000	50.53	---	74.00	23.47	H	3.0
10601.600000	---	45.59	54.00	8.41	H	6.7
10601.600000	54.74	---	74.00	19.26	H	6.7
14542.200000	53.80	---	68.20	14.40	V	11.8
17966.000000	52.73	---	74.00	21.27	V	11.7
17966.000000	---	45.31	54.00	8.69	V	11.7

High Channel: 5320MHz**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1℃
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

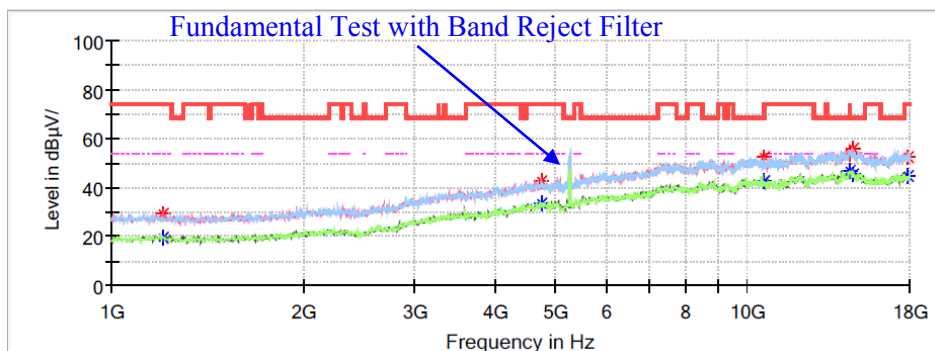
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1102.000000	---	19.69	54.00	34.31	V	-14.8
1102.000000	30.21	---	74.00	43.79	V	-14.8
4767.200000	---	32.20	54.00	21.80	H	-3.5
4767.200000	42.93	---	74.00	31.07	H	-3.5
7412.400000	49.89	---	74.00	24.11	H	2.7
7412.400000	---	40.54	54.00	13.46	H	2.7
10635.600000	53.95	---	74.00	20.05	H	6.7
10635.600000	---	46.43	54.00	7.57	H	6.7
14491.200000	---	46.44	54.00	7.56	H	12.0
14491.200000	55.78	---	74.00	18.22	H	12.0
17969.400000	---	45.40	54.00	8.60	V	11.7
17969.400000	52.95	---	74.00	21.05	V	11.7

802.11ac 20 Mode:**Low Channel: 5260MHz****Common Information**

Project No.:	RKSA251028001
EUT Model:	K1112
Test Mode:	5G WIFI 802.11ac20 mode Low Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1°C
Humidity:	53%
Atmospheric Pressure:	102.3kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/31

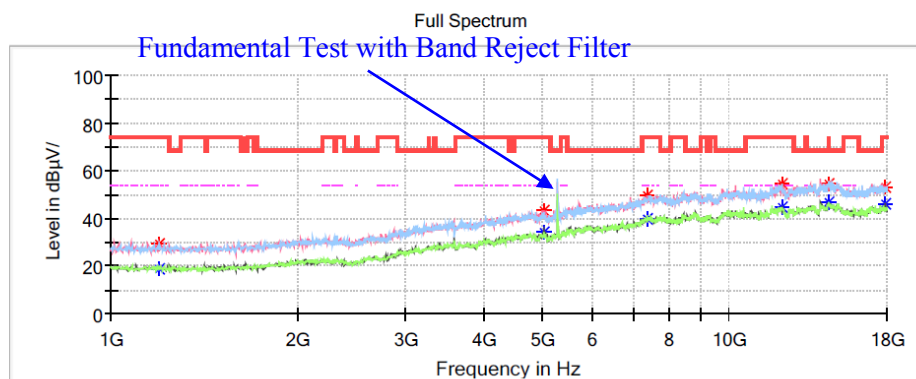
Full Spectrum

**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)
1204.000000	---	19.61	54.00	34.39	V	-14.5
1204.000000	29.48	---	74.00	44.52	V	-14.5
4757.000000	42.67	---	74.00	31.33	H	-3.5
4757.000000	---	33.24	54.00	20.76	H	-3.5
10649.200000	---	42.93	54.00	11.07	V	6.7
10649.200000	52.44	---	74.00	21.56	V	6.7
14494.600000	---	46.60	54.00	7.40	V	12.0
14494.600000	54.06	---	74.00	19.94	V	12.0
14678.200000	55.65	---	68.20	12.55	H	11.4
17918.400000	---	44.92	54.00	9.08	V	11.5
17918.400000	52.38	---	74.00	21.62	V	11.5

Middle Channel: 5300MHz**Common Information**

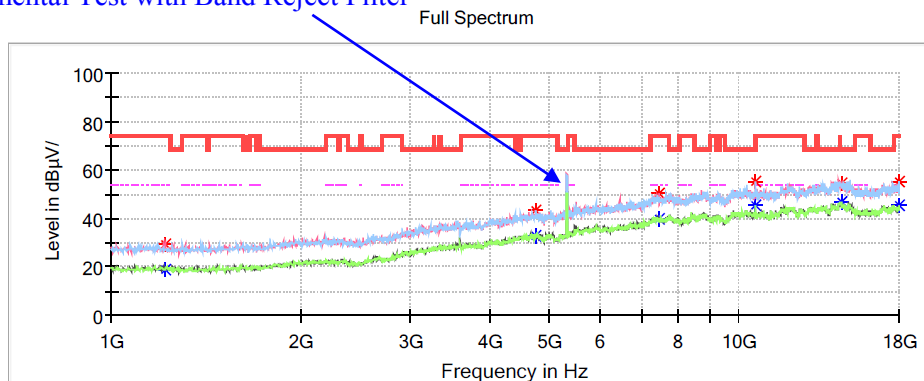
Project No.: RKSA251028001
 EUT Model: K1112
 Test Mode: 5G WIFI 802.11ac20 mode Middle Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.1℃
 Humidity: 53%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/31

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	PoI	Corr. (dB/m)
1200.600000	29.72	---	74.00	44.28	V	-14.5
1200.600000	---	18.95	54.00	35.05	V	-14.5
5022.200000	---	34.21	54.00	19.79	V	-2.8
5022.200000	43.66	---	74.00	30.34	V	-2.8
7381.800000	---	39.67	54.00	14.33	V	2.6
7381.800000	49.96	---	74.00	24.04	V	2.6
12162.200000	---	44.79	54.00	9.21	H	9.0
12162.200000	54.73	---	74.00	19.27	H	9.0
14494.600000	54.27	---	74.00	19.73	H	12.0
14494.600000	---	46.61	54.00	7.39	H	12.0
17915.000000	52.90	---	74.00	21.10	V	11.5
17915.000000	---	46.07	54.00	7.93	V	11.5

High Channel: 5320MHz**Common Information**

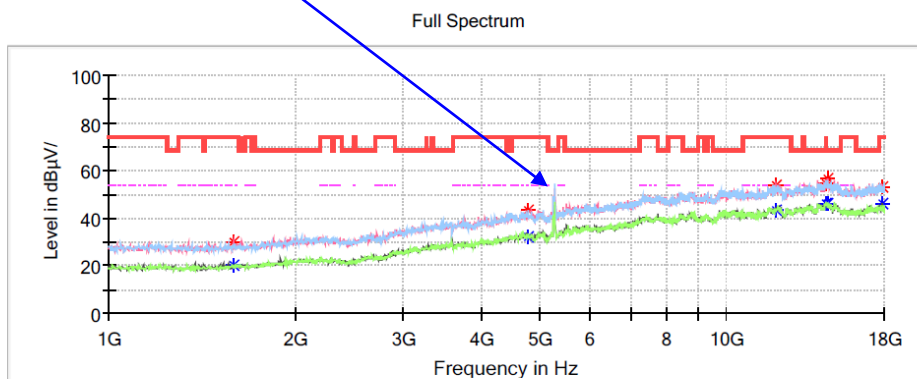
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

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)
1217.600000	---	19.15	54.00	34.85	V	-14.4
1217.600000	29.25	---	74.00	44.75	V	-14.4
4757.000000	---	33.11	54.00	20.89	V	-3.5
4757.000000	43.23	---	74.00	30.77	V	-3.5
7443.000000	---	39.64	54.00	14.36	H	2.8
7443.000000	50.28	---	74.00	23.72	H	2.8
10639.000000	---	45.73	54.00	8.27	H	6.7
10639.000000	55.56	---	74.00	18.44	H	6.7
14549.000000	54.28	---	68.20	13.92	H	11.8
17966.000000	55.07	---	74.00	18.93	H	11.7
17966.000000	---	45.46	54.00	8.54	H	11.7

802.11ac40 Mode:**Low Channel: 5270MHz****Common Information**

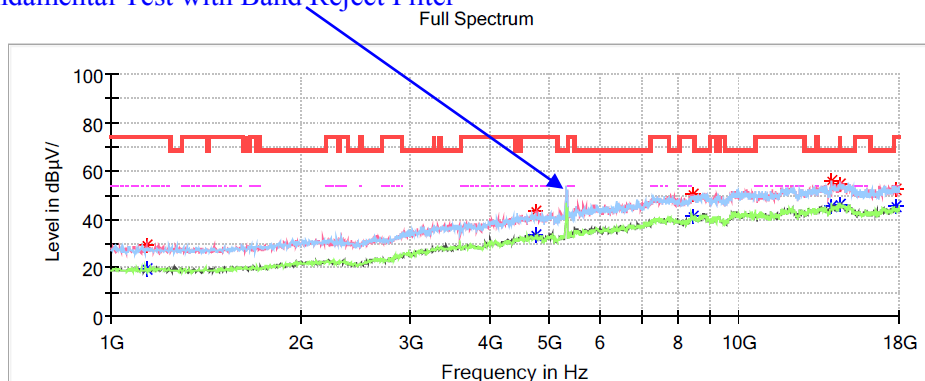
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

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)
1588.200000	---	20.07	54.00	33.93	V	-12.8
1588.200000	30.34	---	74.00	43.66	V	-12.8
4770.600000	---	32.39	54.00	21.61	V	-3.5
4770.600000	43.47	---	74.00	30.53	V	-3.5
12063.600000	---	43.54	54.00	10.46	V	9.0
12063.600000	54.06	---	74.00	19.94	V	9.0
14494.600000	---	46.31	54.00	7.69	H	12.0
14494.600000	54.84	---	74.00	19.16	H	12.0
14542.200000	56.99	---	68.20	11.21	H	11.8
17935.400000	52.98	---	74.00	21.02	V	11.6
17935.400000	---	46.04	54.00	7.96	V	11.6

High Channel: 5310MHz**Common Information**

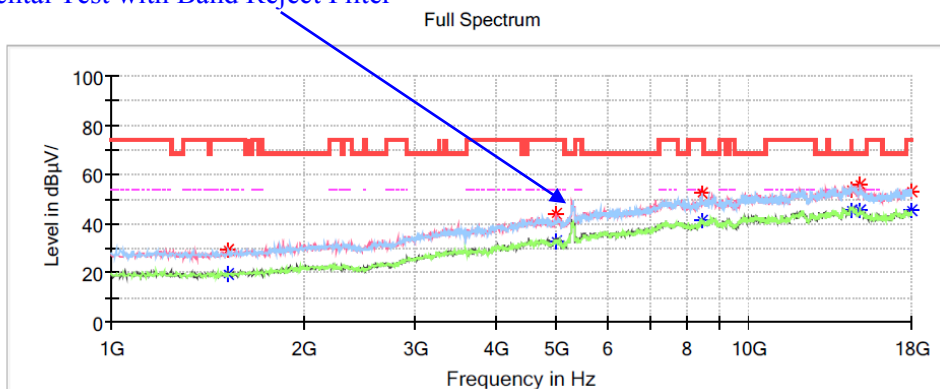
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

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)
1136.000000	---	19.62	54.00	34.38	V	-14.7
1136.000000	29.64	---	74.00	44.36	V	-14.7
4743.400000	---	33.79	54.00	20.21	V	-3.6
4743.400000	43.02	---	74.00	30.98	V	-3.6
8425.600000	---	41.09	54.00	12.91	V	4.5
8425.600000	50.28	---	74.00	23.72	V	4.5
14056.000000	55.80	---	68.20	12.40	H	11.2
14498.000000	---	46.40	54.00	7.60	V	12.0
14498.000000	54.52	---	74.00	19.48	V	12.0
17809.600000	52.42	---	74.00	21.58	V	11.3
17809.600000	---	45.51	54.00	8.49	V	11.3

802.11ac80 Mode:**Channel: 5290MHz****Common Information**

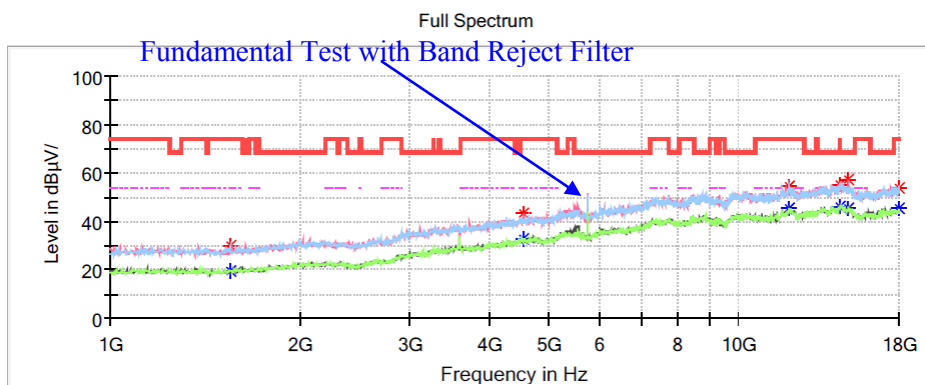
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac80
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

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)
1527.000000	---	19.86	54.00	34.14	H	-13.2
1527.000000	29.24	---	74.00	44.76	H	-13.2
4971.200000	---	32.76	54.00	21.24	V	-3.0
4971.200000	43.78	---	74.00	30.22	V	-3.0
8432.400000	---	41.42	54.00	12.58	H	4.5
8432.400000	52.27	---	74.00	21.73	H	4.5
14498.000000	---	45.50	54.00	8.50	H	12.0
14498.000000	53.98	---	74.00	20.02	H	12.0
14963.800000	56.05	---	68.20	12.15	H	10.4
17976.200000	53.35	---	74.00	20.65	V	11.7
17976.200000	---	45.60	54.00	8.40	V	11.7

1GHz-18GHz(5725-5850MHz Band):**802.11a Mode:****Low Channel: 5745MHz****Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

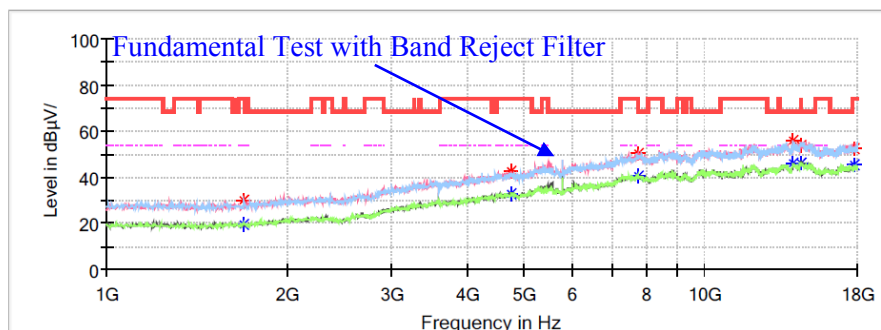
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1550.800000	---	19.40	54.00	34.60	H	-13.1
1550.800000	29.87	---	74.00	44.13	H	-13.1
4549.600000	---	32.79	54.00	21.21	H	-4.1
4549.600000	43.11	---	74.00	30.89	H	-4.1
12063.600000	---	45.78	54.00	8.22	V	9.0
12063.600000	54.57	---	74.00	19.43	V	9.0
14494.600000	---	46.43	54.00	7.57	V	12.0
14494.600000	55.33	---	74.00	18.67	V	12.0
14957.000000	57.55	---	68.20	10.65	V	10.4
17986.400000	---	45.28	54.00	8.72	H	11.7
17986.400000	53.99	---	74.00	20.01	H	11.7

Middle Channel: 5785MHz**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

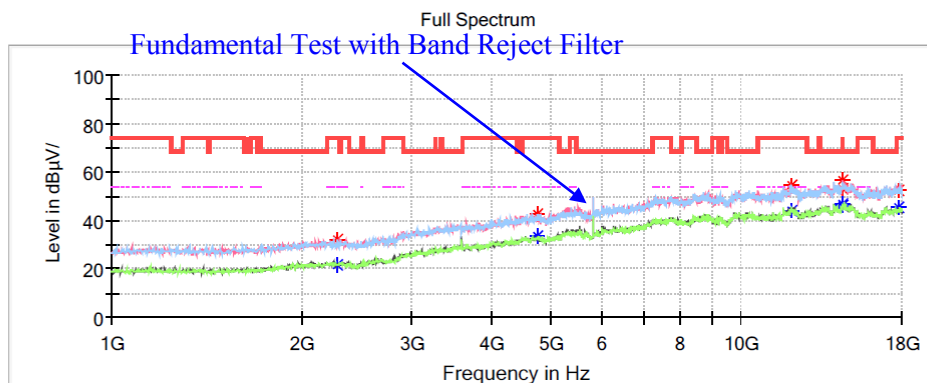
Full Spectrum

**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)
1697.000000	---	19.27	54.00	34.73	H	-12.1
1697.000000	29.82	---	74.00	44.18	H	-12.1
4736.600000	---	32.55	54.00	21.45	V	-3.6
4736.600000	42.77	---	74.00	31.23	V	-3.6
7735.400000	---	40.45	54.00	13.55	V	3.1
7735.400000	50.66	---	74.00	23.34	V	3.1
14059.400000	56.23	---	68.20	11.97	H	11.2
14494.600000	---	46.26	54.00	7.74	H	12.0
14494.600000	53.92	---	74.00	20.08	H	12.0
17796.000000	52.60	---	74.00	21.40	V	11.2
17796.000000	---	45.38	54.00	8.62	V	11.2

High Channel: 5825MHz**Common Information**

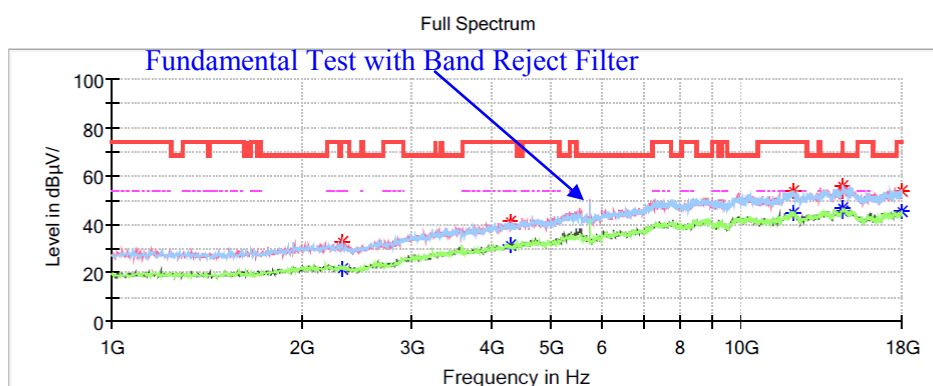
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
2281.800000	---	21.75	54.00	32.25	V	-9.7
2281.800000	32.27	---	74.00	41.73	V	-9.7
4746.800000	---	33.42	54.00	20.58	V	-3.6
4746.800000	42.92	---	74.00	31.08	V	-3.6
12050.000000	---	44.14	54.00	9.86	H	9.0
12050.000000	54.58	---	74.00	19.42	H	9.0
14498.000000	53.17	---	74.00	20.83	H	12.0
14498.000000	---	46.17	54.00	7.83	H	12.0
14515.000000	56.90	---	68.20	11.30	V	11.9
17765.400000	---	45.15	54.00	8.85	V	11.1
17765.400000	52.52	---	74.00	21.48	V	11.1

802.11ac20 Mode:**Low Channel: 5745MHz****Common Information**

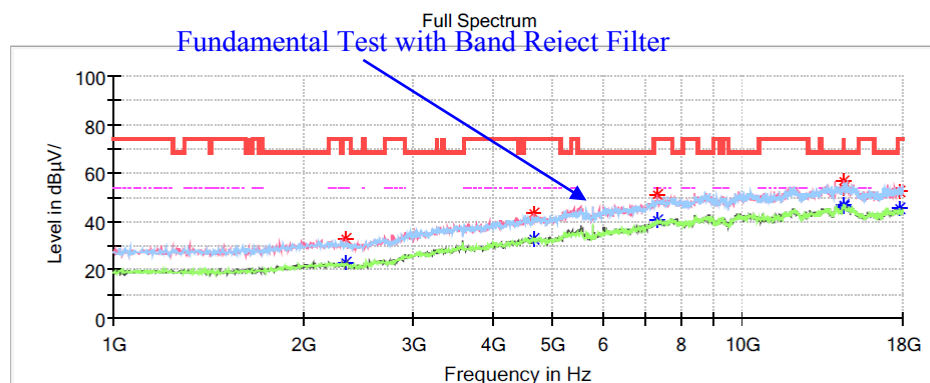
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
2319.200000	---	22.00	54.00	32.00	H	-9.7
2319.200000	32.81	---	74.00	41.19	H	-9.7
4298.000000	---	31.57	54.00	22.43	V	-4.5
4298.000000	41.55	---	74.00	32.45	V	-4.5
12090.800000	---	44.53	54.00	9.47	H	9.0
12090.800000	54.19	---	74.00	19.81	H	9.0
14498.000000	---	47.12	54.00	6.88	H	12.0
14498.000000	54.18	---	74.00	19.82	H	12.0
14532.000000	56.09	---	68.20	12.11	H	11.9
17993.200000	---	45.19	54.00	8.81	V	11.8
17993.200000	53.98	---	74.00	20.02	V	11.8

Middle Channel: 5785MHz**Common Information**

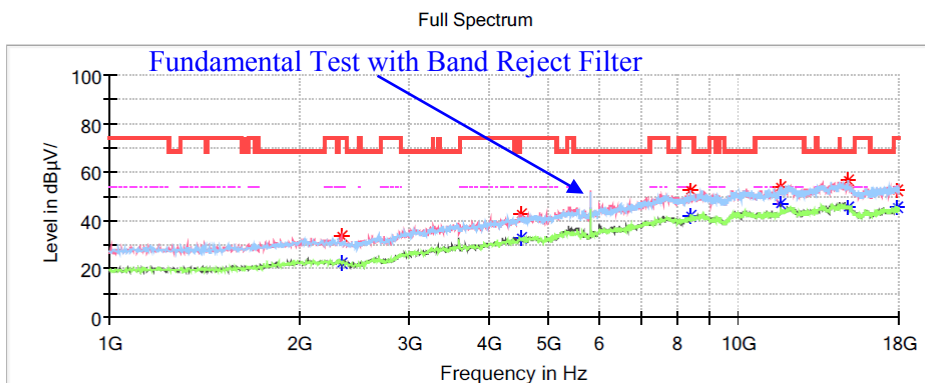
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
2339.600000	---	22.93	54.00	31.07	V	-9.7
2339.600000	32.59	---	74.00	41.41	V	-9.7
4648.200000	---	32.83	54.00	21.17	V	-3.8
4648.200000	43.21	---	74.00	30.79	V	-3.8
7313.800000	---	40.46	54.00	13.54	V	2.4
7313.800000	50.89	---	74.00	23.11	V	2.4
14494.600000	54.19	---	74.00	19.81	H	12.0
14494.600000	---	46.37	54.00	7.63	H	12.0
14532.000000	56.89	---	68.20	11.31	H	11.9
17782.400000	52.18	---	74.00	21.82	V	11.2
17782.400000	---	45.67	54.00	8.33	V	11.2

High Channel: 5825MHz**Common Information**

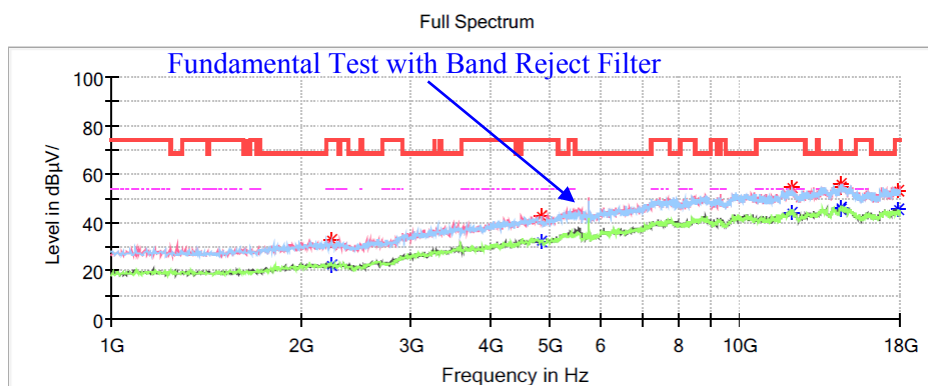
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
2332.800000	---	22.31	54.00	31.69	H	-9.7
2332.800000	33.49	---	74.00	40.51	H	-9.7
4522.400000	---	33.21	54.00	20.79	V	-4.1
4522.400000	43.00	---	74.00	31.00	V	-4.1
8408.600000	---	42.15	54.00	11.85	H	4.4
8408.600000	52.24	---	74.00	21.76	H	4.4
11652.200000	53.76	---	74.00	20.24	V	8.4
11652.200000	---	47.18	54.00	6.82	V	8.4
14967.200000	56.70	---	68.20	11.50	V	10.4
17918.400000	52.30	---	74.00	21.70	H	11.5
17918.400000	---	45.77	54.00	8.23	H	11.5

802.11ac40 Mode:**Channel: 5755MHz****Common Information**

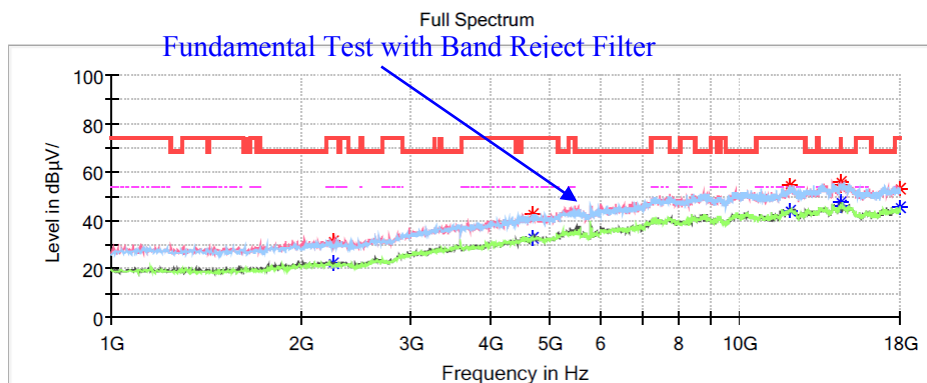
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1℃
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
2244.400000	---	22.67	54.00	31.33	H	-9.8
2244.400000	32.58	---	74.00	41.42	H	-9.8
4825.000000	---	32.39	54.00	21.61	H	-3.4
4825.000000	42.64	---	74.00	31.36	H	-3.4
12080.600000	---	44.05	54.00	9.95	H	9.0
12080.600000	54.34	---	74.00	19.66	H	9.0
14464.000000	55.97	---	68.20	12.23	V	11.9
14491.200000	54.22	---	74.00	19.78	V	12.0
14491.200000	---	46.14	54.00	7.86	V	12.0
17918.400000	---	45.45	54.00	8.55	H	11.5
17918.400000	53.08	---	74.00	20.92	H	11.5

Channel: 5795MHz**Common Information**

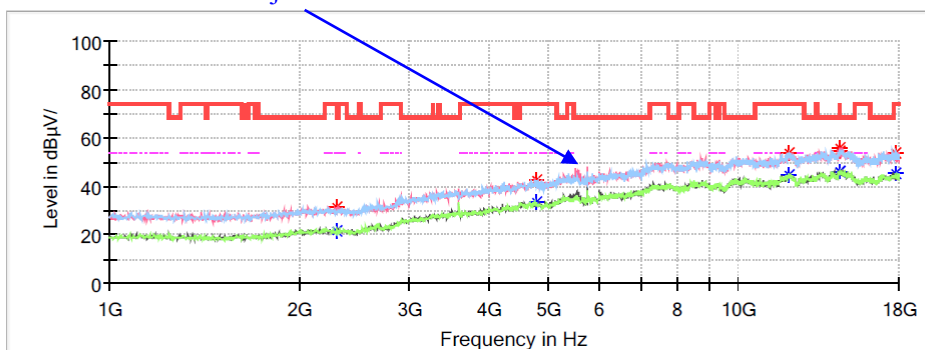
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1℃
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

**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)
2247.800000	---	22.04	54.00	31.96	V	-9.8
2247.800000	31.78	---	74.00	42.22	V	-9.8
4678.800000	---	32.68	54.00	21.32	H	-3.7
4678.800000	42.94	---	74.00	31.06	H	-3.7
12050.000000	54.65	---	74.00	19.35	V	9.0
12050.000000	---	44.31	54.00	9.69	V	9.0
14453.800000	55.78	---	68.20	12.42	V	11.9
14494.600000	54.82	---	74.00	19.18	H	12.0
14494.600000	---	47.25	54.00	6.75	H	12.0
17952.400000	---	45.43	54.00	8.57	V	11.6
17952.400000	53.24	---	74.00	20.76	V	11.6

802.11ac80 Mode:**Channel: 5775MHz****Common Information**

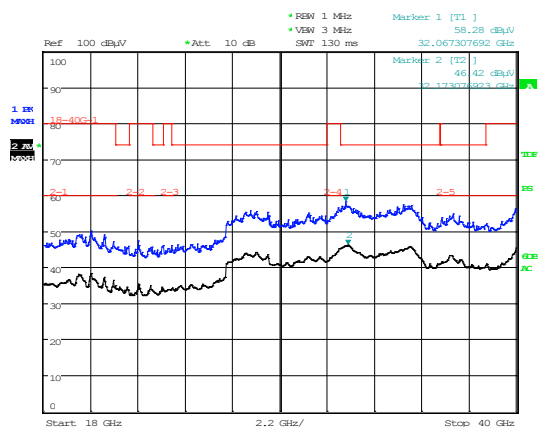
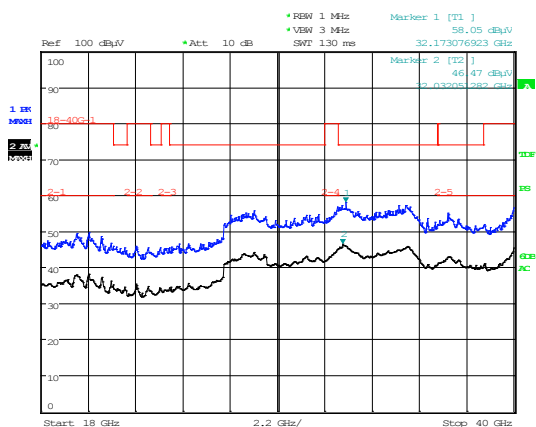
Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac80
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

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)
2295.400000	---	21.51	54.00	32.49	H	-9.7
2295.400000	31.60	---	74.00	42.40	H	-9.7
4770.600000	---	33.46	54.00	20.54	H	-3.5
4770.600000	42.63	---	74.00	31.37	H	-3.5
12005.800000	---	44.54	54.00	9.46	V	9.1
12005.800000	54.10	---	74.00	19.90	V	9.1
14491.200000	54.88	---	74.00	19.12	V	12.0
14491.200000	---	46.23	54.00	7.77	V	12.0
14508.200000	55.83	---	68.20	12.37	H	11.9
17813.000000	54.17	---	74.00	19.83	H	11.3
17813.000000	---	45.32	54.00	8.68	H	11.3

18GHz-40GHz:

Pre-scan with 802.11a, 802.11ac20, 802.11ac40, 802.11ac80 modes of operation in the X,Y and Z axes of orientation, the worst case **802.11a mode (5300MHz)** was recorded

Horizontal**Vertical**

Project No :RKSA251028001 Tester :Rugh Wu
Date: 3.NOV.2025 14:50:06

Project No :RKSA251028001 Tester :Rugh Wu
Date: 3.NOV.2025 15:24:50

Note: The test distance is 1.5m. The limit is 80dBμV/m(Peak) and 60dBμV/m(Average) in restricted band. The limit outside the restriction band is 74.2 dBμV/m.

Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
32.03	---	46.47	74.2	27.73	V	23.17
32.17	58.05	---	74.2	16.15	V	23.31
32.17	---	46.42	74.2	27.78	H	23.31
32.07	58.28	---	74.2	15.92	H	23.21

Restricted Bands Emissions Test (5150-5250MHz Band):

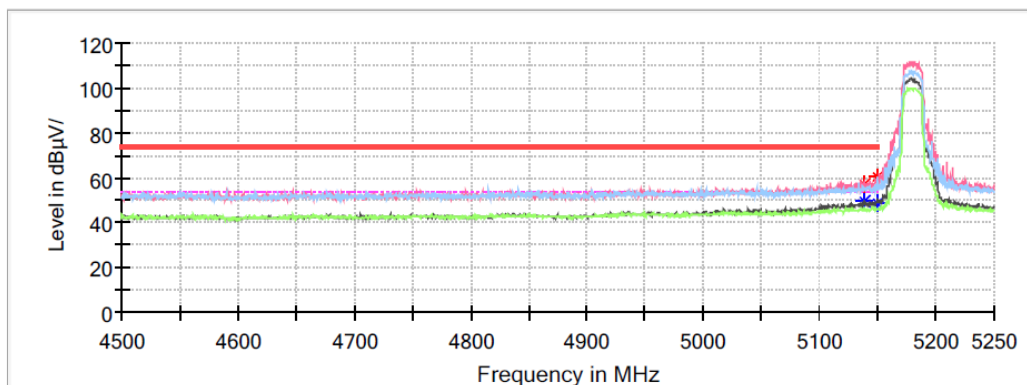
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode:**Common Information**

Project No.:	RKSA251028001
EUT Model:	K1112
Test Mode:	5G WIFI 802.11a mode Low Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1°C
Humidity:	53%
Atmospheric Pressure:	102.3kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/31

Full Spectrum

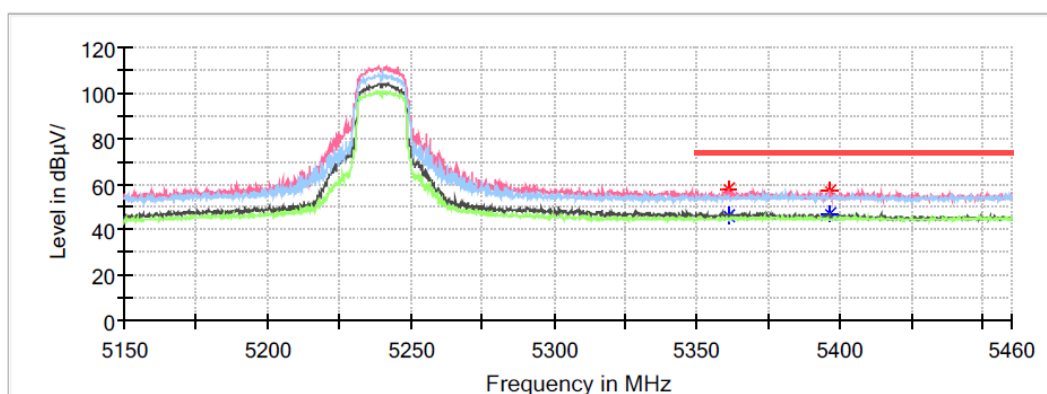
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5139.000000	57.33	---	74.00	16.67	V	7.5
5139.000000	---	49.93	54.00	4.07	V	7.5
5149.500000	60.53	---	74.00	13.47	H	7.5
5149.500000	---	48.49	54.00	5.51	H	7.5

Common Information

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum



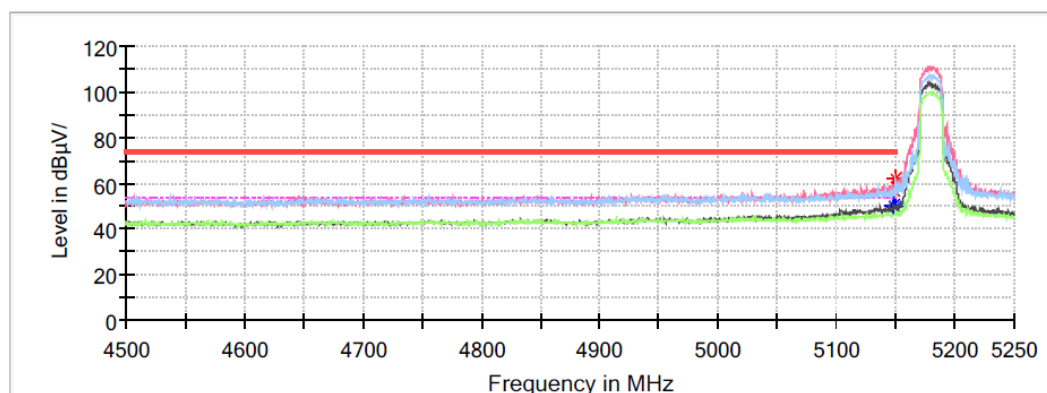
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5361.296000	57.53	---	74.00	16.47	V	7.6
5361.296000	---	45.99	54.00	8.01	V	7.6
5396.760000	---	46.61	54.00	7.39	V	7.7
5396.760000	57.13	---	74.00	16.87	V	7.7

802.11ac20 Mode:**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum

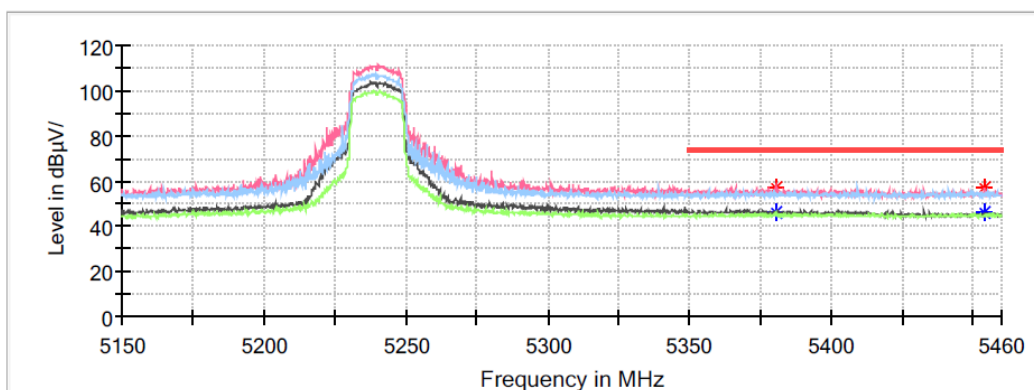
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5148.900000	56.86	---	74.00	17.14	V	7.5
5148.900000	---	50.44	54.00	3.56	V	7.5
5149.500000	62.18	---	74.00	11.82	V	7.5
5149.500000	---	49.43	54.00	4.57	V	7.5

Common Information

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum



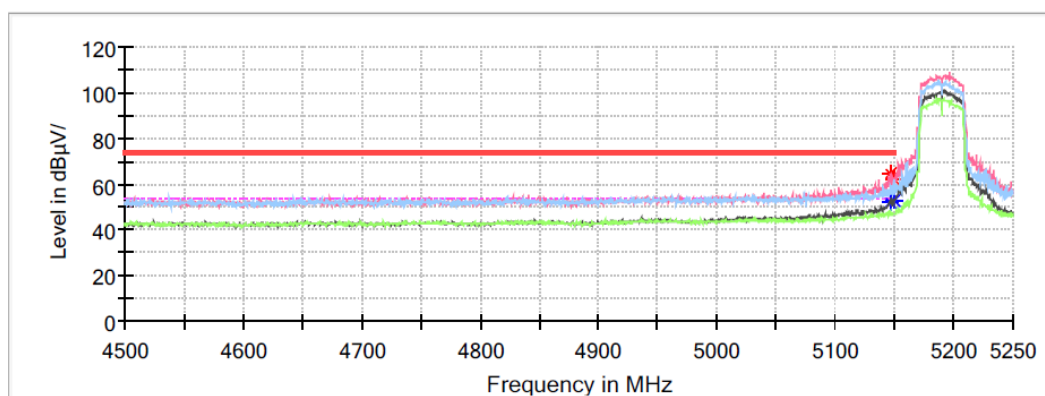
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5380.268000	57.21	---	74.00	16.79	V	7.6
5380.268000	---	46.44	54.00	7.56	V	7.6
5454.172000	---	46.19	54.00	7.81	V	7.7
5454.172000	57.21	---	74.00	16.79	V	7.7

802.11ac40 Mode:**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum

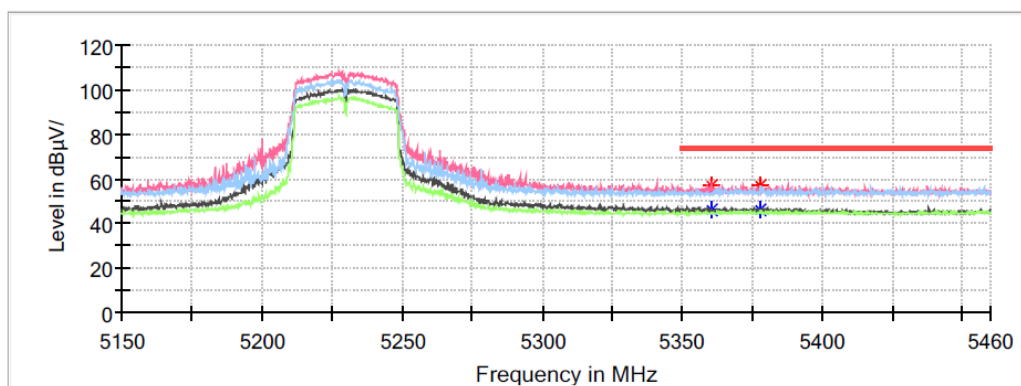
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5147.100000	64.92	---	74.00	9.08	V	7.5
5147.100000	---	52.26	54.00	1.74	V	7.5
5149.500000	62.13	---	74.00	11.87	V	7.5
5149.500000	---	53.00	54.00	1.00	V	7.5

Common Information

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum



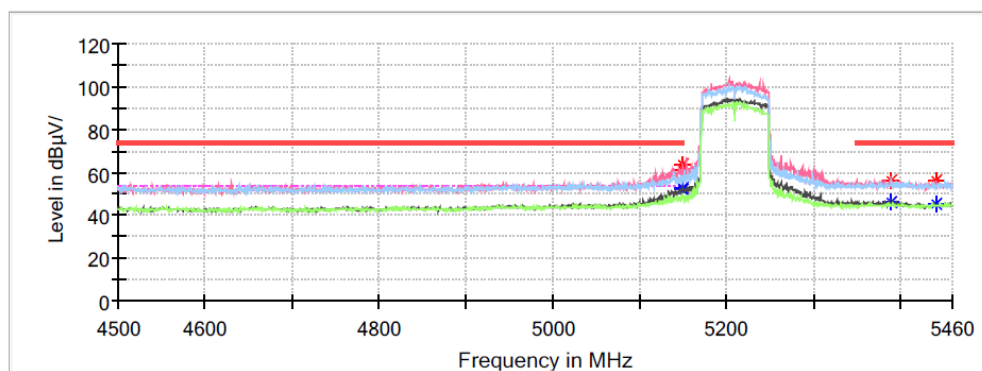
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5360.180000	57.17	---	74.00	16.83	V	7.6
5360.180000	---	46.28	54.00	7.72	V	7.6
5377.912000	---	46.35	54.00	7.65	H	7.6
5377.912000	57.38	---	74.00	16.62	H	7.6

802.11ac80 Mode:**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac80
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1℃
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

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)
5148.960000	---	52.49	54.00	1.51	H	7.5
5148.960000	61.39	---	74.00	12.61	H	7.5
5149.728000	---	52.31	54.00	1.69	V	7.5
5149.728000	64.06	---	74.00	9.94	V	7.5
5389.344000	---	45.91	54.00	8.09	V	7.7
5389.344000	55.89	---	74.00	18.11	V	7.7
5441.568000	---	45.24	54.00	8.76	V	7.7
5441.568000	56.05	---	74.00	17.95	V	7.7

Restricted Bands Emissions Test (5250-5350MHz Band):

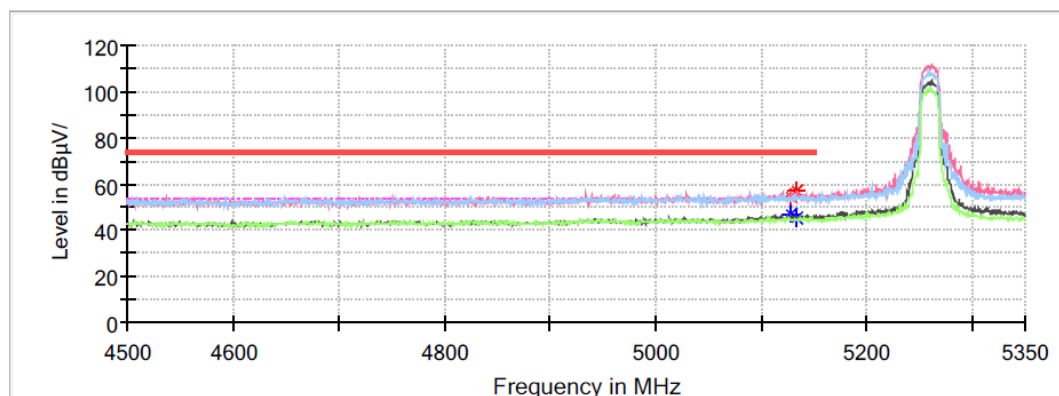
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode:**Common Information**

Project No.:	RKSA251028001
EUT Model:	K1112
Test Mode:	5G WIFI 802.11a mode Low Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.1°C
Humidity:	53%
Atmospheric Pressure:	102.3kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/31

Full Spectrum

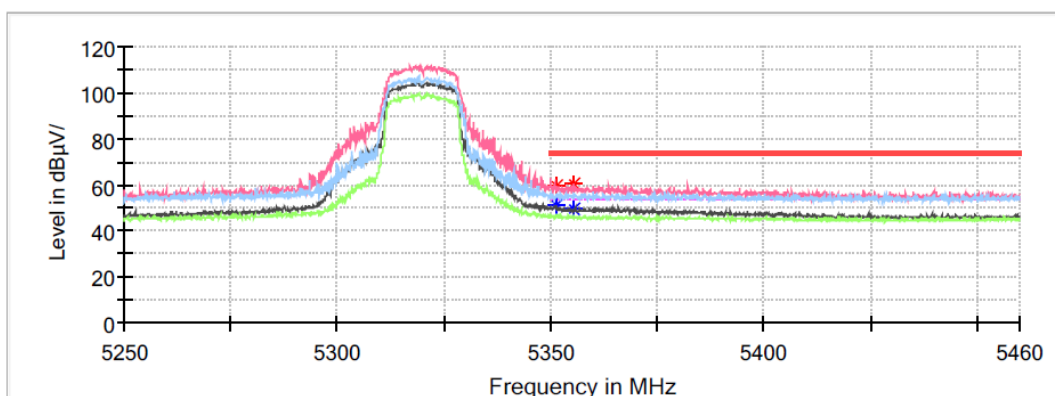
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5128.660000	54.17	---	74.00	19.83	V	7.4
5128.660000	---	46.63	54.00	7.37	V	7.4
5133.760000	56.65	---	74.00	17.35	V	7.4
5133.760000	---	45.53	54.00	8.47	V	7.4

Common Information

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum



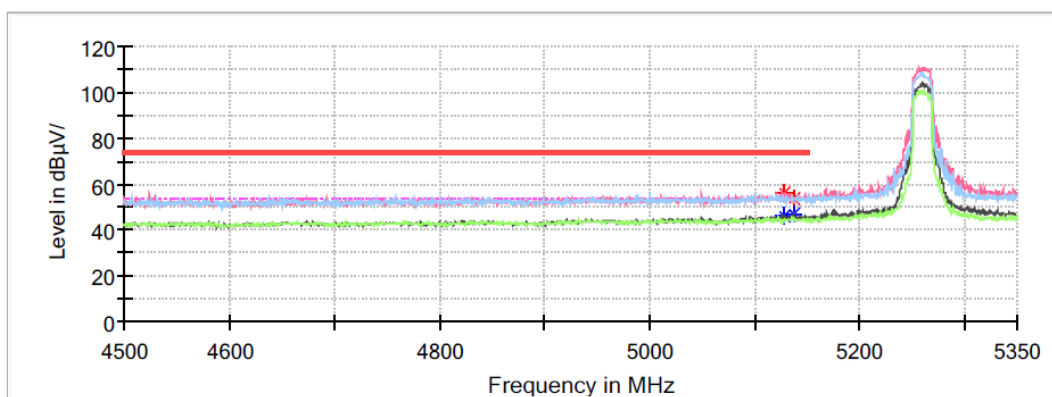
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5351.388000	59.49	---	74.00	14.51	V	7.6
5351.388000	---	51.04	54.00	2.96	V	7.6
5355.504000	60.55	---	74.00	13.45	V	7.6
5355.504000	---	49.35	54.00	4.65	V	7.6

802.11ac20 Mode:**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum

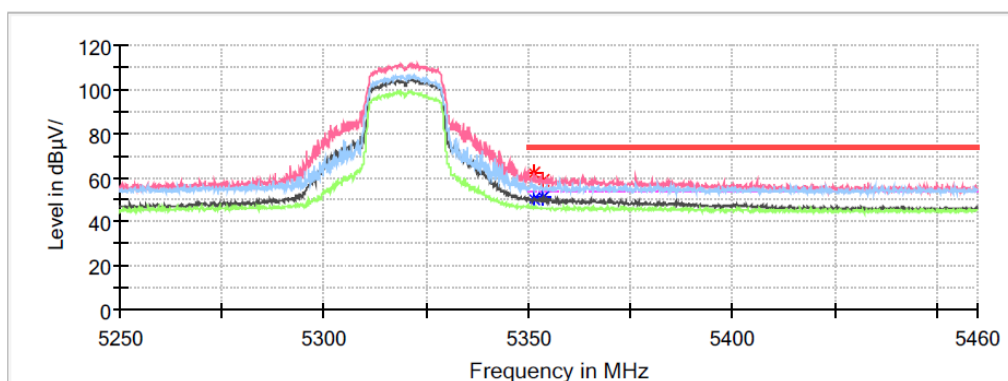
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5129.000000	---	45.89	54.00	8.11	V	7.4
5129.000000	56.30	---	74.00	17.70	V	7.4
5138.180000	---	46.71	54.00	7.29	V	7.5
5138.180000	53.76	---	74.00	20.24	V	7.5

Common Information

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1℃
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum



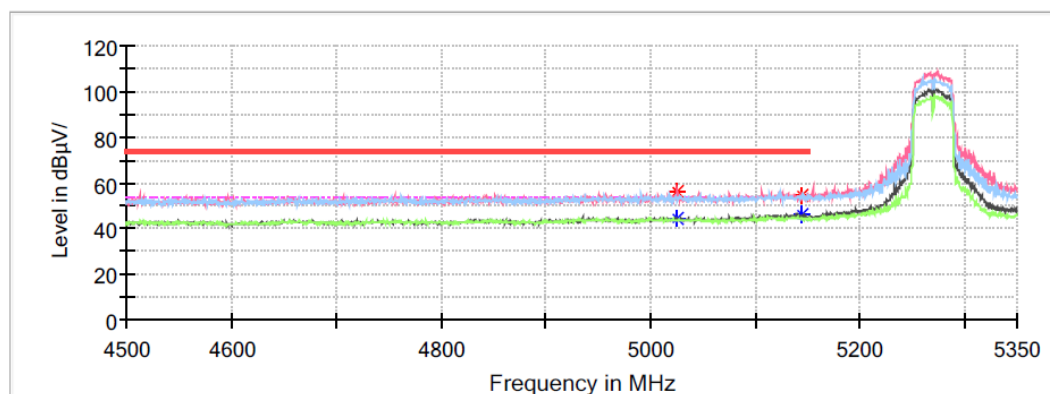
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5351.220000	62.38	---	74.00	11.62	V	7.6
5351.220000	---	50.12	54.00	3.88	V	7.6
5353.488000	58.88	---	74.00	15.12	V	7.6
5353.488000	---	51.04	54.00	2.96	V	7.6

802.11ac40 Mode:**Common Information**

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

Full Spectrum

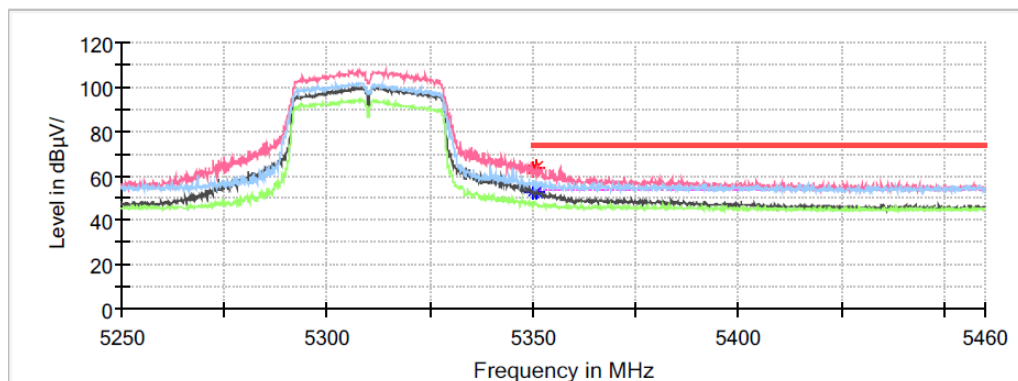
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5026.660000	56.48	---	74.00	17.52	V	7.4
5026.660000	---	44.27	54.00	9.73	V	7.4
5144.300000	54.54	---	74.00	19.46	V	7.5
5144.300000	---	46.45	54.00	7.55	V	7.5

Common Information

Project No.: RKSA251028001
EUT Model: K1112
Test Mode: 5G WIFI 802.11ac40 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 53%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/31

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)
5350.128000	---	53.27	54.00	0.73	V	7.6
5350.128000	62.85	---	74.00	11.15	V	7.6
5350.716000	---	52.59	54.00	1.41	V	7.6
5350.716000	63.78	---	74.00	10.22	V	7.6