

FCC PART 15.407

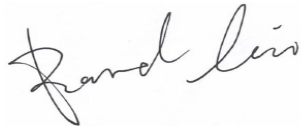
TEST REPORT

For

WISEASY TECHNOLOGY PTE. LTD.

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

FCC ID: 2BFPO-R010

Report Type: Original Report	Product Name: Smart Reader
Report Number: RKSA250928001-00D	
Report Date: 2025-11-13	
Reviewed By:	Bard Liu 
Approved By:	Kyle Xu 
Test Laboratory: Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn	

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

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA250928001-00D	R1V1	2025-11-13	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	WISEASY TECHNOLOGY PTE. LTD.				
Tested Model:	R010				
Product Name:	Smart Reader				
Power Supply:	DC 5V from adapter or DC 3.85V from battery				
Operating Frequency:	B1: 5150-5250 MHz, B2: 5250-5350 MHz, B3: 5470-5725 MHz, B4: 5725-5850 MHz				
Maximum Output Power:	Mode:	5G Wi-Fi Band 1:	Band 2:	Band 3:	Band 4:
	802.11a:	16.53 dBm	16.68 dBm	17.41 dBm	17.76 dBm
	802.11ac20:	16.52 dBm	16.54 dBm	17.31 dBm	17.68 dBm
	802.11ac40:	16.88 dBm	16.67 dBm	16.95 dBm	17.47 dBm
	802.11ac80:	11.55 dBm	16.40 dBm	16.95 dBm	16.15 dBm
Channel Number:	B1:7, B2: 7, B3: 21, B4: 8				
Channel Separation	802.11a/ac20: 20 MHz, 802.11ac40: 40 MHz, , 802.11ac80: 80 MHz				
Modulation Type:	OFDM				
Antenna Type:	FPC antenna				
★Maximum Antenna Gain:	Band 1: -3.16 dBi; Band 2: -2.06 dBi; Band 3: -1.88 dBi; Band 4: -3.35 dBi;				

Adapter-1 Information:

Model: TPA-418G050100UU01

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

Output: 5.0V, 1.0A, 5.0W

Adapter-2 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: RKSA250928001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-09-28.)

Objective

This type approval report is prepared for *WISEASY TECHNOLOGY PTE. 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.

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°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

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 **5470~5725 MHz** band, test channel list is as below,

802.11a/ac20 mode Channel 100, 120, 140, 142 were tested, Cross channel 142.

802.11ac40 mode Channel 102, 110, 134, 144 were tested, Cross channel 144.

802.11ac80 mode Channel 106, 122, 138 was tested, Cross channel 138.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	118	5590	136	5680
102	5510	120	5600	138	5690
104	5520	122	5610	140	5700
106	5530	124	5620	142	5710
108	5540	126	5630	144	5720
110	5550	128	5640	/	/
112	5560	132	5660	/	/
116	5580	134	5670	/	/

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	17	17	17
	802.11ac-VHT20	MCS0	17	17	17
	802.11ac-VHT40	MCS0	17	/	17
	802.11ac-VHT80	MCS0	/	11	/

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5250~5350MHz	802.11a	6Mbps	17	17	17
	802.11ac-VHT20	MCS0	17	17	17
	802.11ac-VHT40	MCS0	17	/	17
	802.11ac-VHT80	MCS0	/	17	/

U-NII	Mode	Data rate	★Power Level			
			Low Channel	Middle Channel	High Channel	Cross Channel
5470~5725MHz	802.11a	6Mbps	16	16	15	17
	802.11ac-VHT20	MCS0	15	15	15	12
	802.11ac-VHT40	MCS0	16	16	16	17
	802.11ac-VHT80	MCS0	12	/	15	14

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5725~5850MHz	802.11a	6Mbps	17	17	17
	802.11ac-VHT20	MCS0	17	17	17
	802.11ac-VHT40	MCS0	17	/	17
	802.11ac-VHT80	MCS0	/	16	/

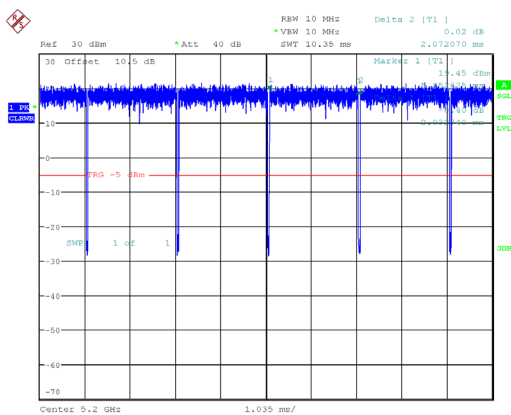
Note: The power level was declared by the applicant.

Duty Cycle:

Environmental Conditions & Test Information

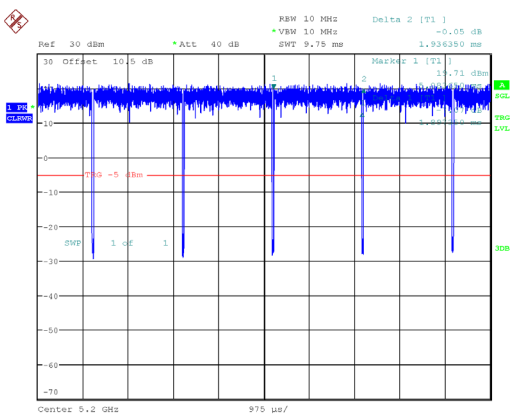
Test Date:	2025-10-20
Temperature:	24.9 °C
Relative Humidity:	60 %
ATM Pressure:	101.7 kPa
Test Engineer:	Hugh Wu

5150MHz-5250MHz Band:
802.11a mode



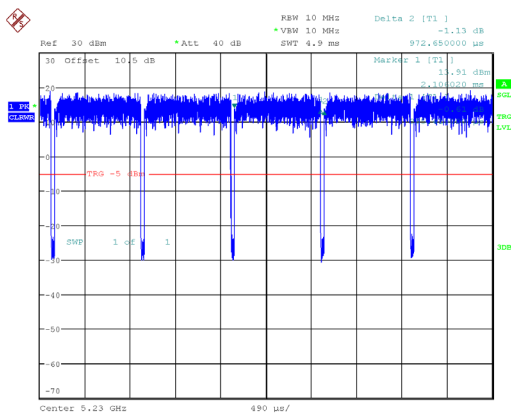
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 09:40:20

802.11ac20 mode



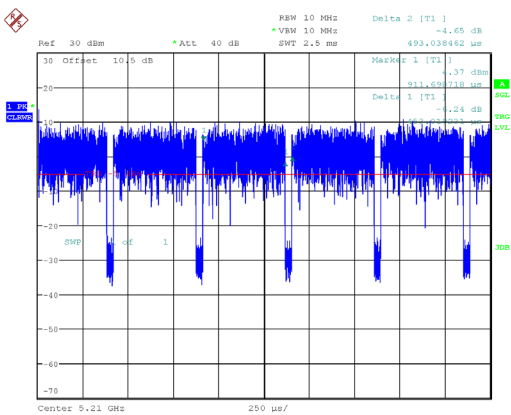
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Date: 20.OCT.2025 10:00:52

802.11ac40 mode



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 10:23:07

802.11ac80 mode



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 10:31:30

802.11a mode

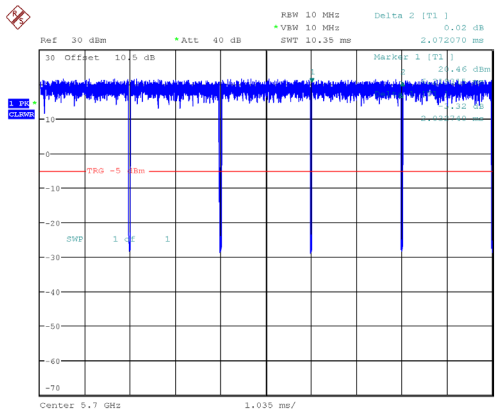


ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 11:21:22

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Date: 20.OCT.2025 11:41:09

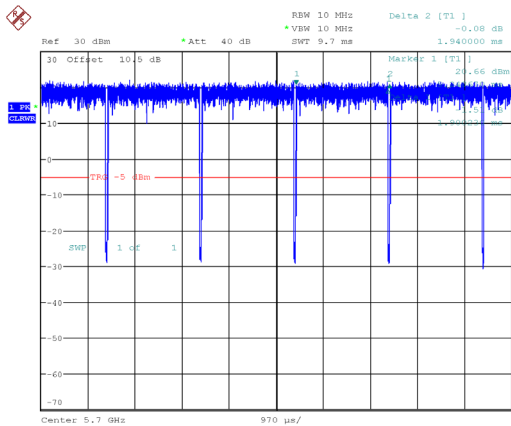
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Date: 20.OCT.2025 11:47:45

5470MHz-5725MHz Band:
802.11a mode



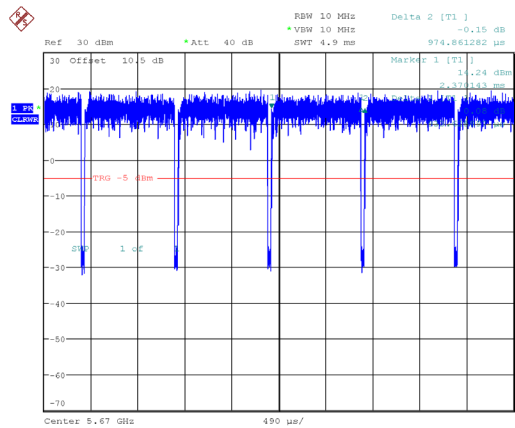
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Date: 20.OCT.2025 13:33:33

802.11ac20 mode



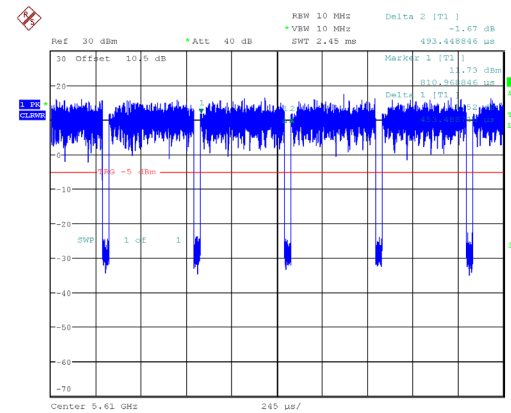
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Date: 20.OCT.2025 13:57:16

802.11ac40 mode



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 14:30:02

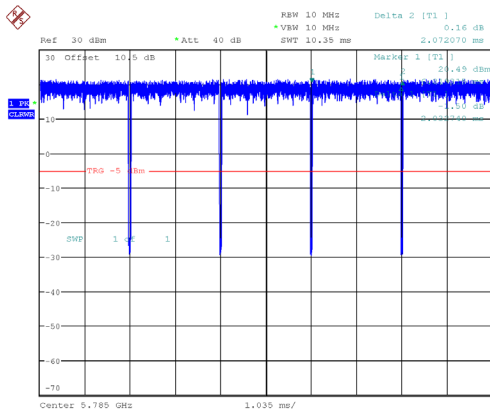
802.11ac80 mode



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 14:58:25

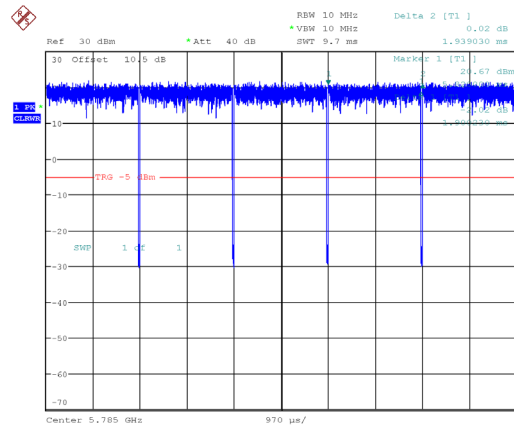
5725MHz-5850MHz Band:

802.11a mode



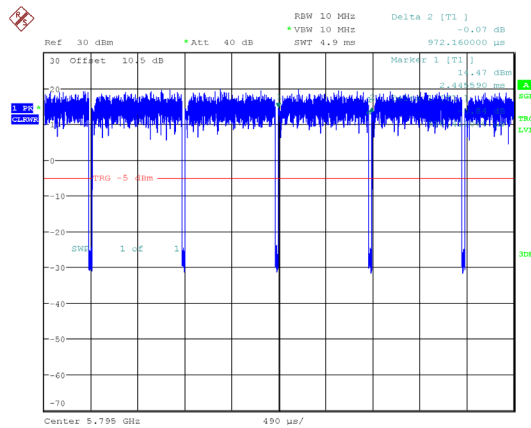
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Date: 20.OCT.2025 15:22:03

802.11ac20 mode



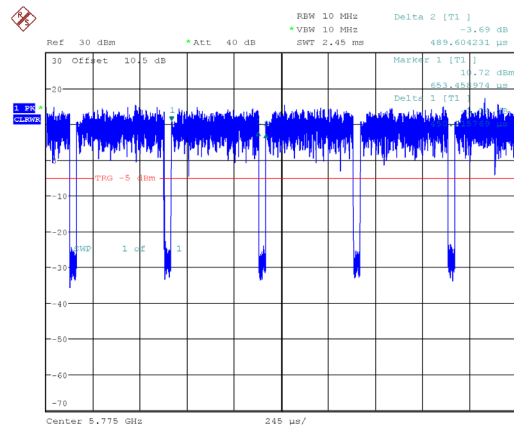
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 15:42:38

802.11ac40 mode



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 16:04:28

802.11ac80 mode



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 20.OCT.2025 16:28:34

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

5150MHz-5250MHz:

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
a_5200MHz_Chain 0	2.033	2.072	98.10	/
ac20_5200MHz_Chain 0	1.897	1.936	97.99	0.09
ac40_5230MHz_Chain 0	0.935	0.973	96.17	0.17
ac80_5210MHz_Chain 0	0.453	0.493	91.88	0.37

5250MHz-5350MHz:

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
a_5300MHz_Chain 0	2.027	2.066	98.09	/
ac20_5300MHz_Chain 0	1.901	1.940	98.00	/
ac40_5310MHz_Chain 0	0.935	0.972	96.17	0.17
ac80_5290MHz_Chain 0	0.451	0.492	91.69	0.38

5470MHz-5725MHz:

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
a_5700MHz_Chain 0	2.033	2.072	98.10	/
ac20_5700MHz_Chain 0	1.900	1.940	97.95	0.09
ac40_5670MHz_Chain 0	0.934	0.975	95.77	0.19
ac80_5610MHz_Chain 0	0.453	0.493	91.90	0.37

5725MHz-5850MHz:

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
a_5785MHz_Chain 0	2.033	2.072	98.10	/
ac20_5785MHz_Chain 0	1.900	1.939	98.00	/
ac40_5795MHz_Chain 0	0.935	0.972	96.22	0.17
ac80_5775MHz_Chain 0	0.450	0.490	91.96	0.36

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

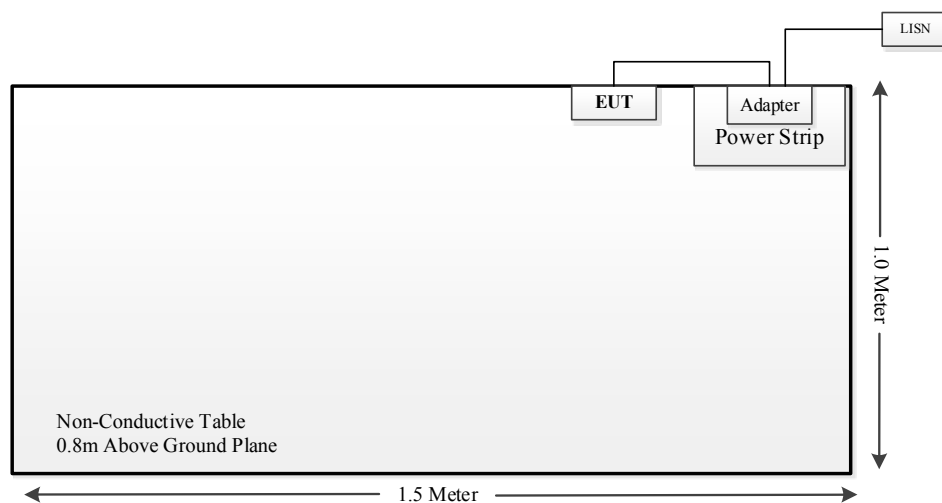
Manufacturer	Description	Model	Serial Number
/	Power Strip	/	/

External I/O Cable

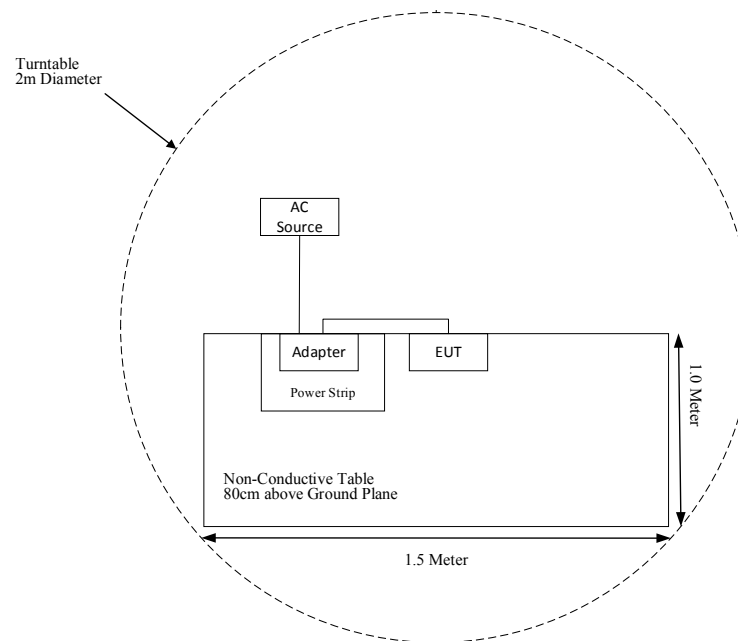
Cable Description	Length (m)	From Port	To Port
Power Cable	1.0	AC Source	Power Strip
USB Cable	1.5	Adapter	EUT

Block Diagram of Test Setup

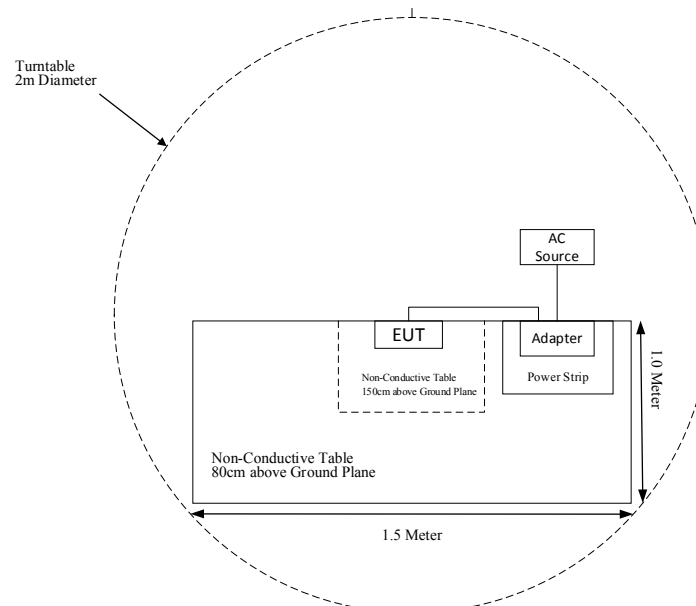
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1 GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§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	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§1.1307(b)(1)& §2.1093	RF EXPOSURE	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	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: RKSA250820001-20B.

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	-3.16 dBi	50Ω
	5250~5350 MHz	-2.06 dBi	50Ω
	5470~5725 MHz	-1.88 dBi	50Ω
	5725~5850 MHz	-3.35 dBi	50Ω

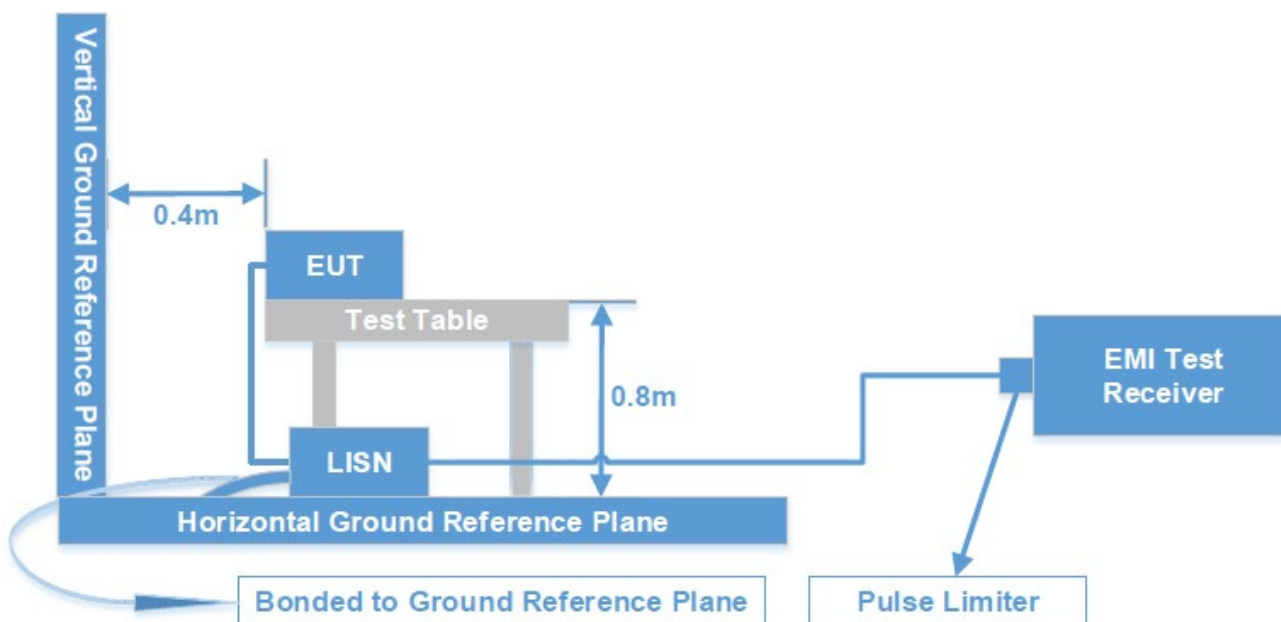
Result: Compliant.

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:

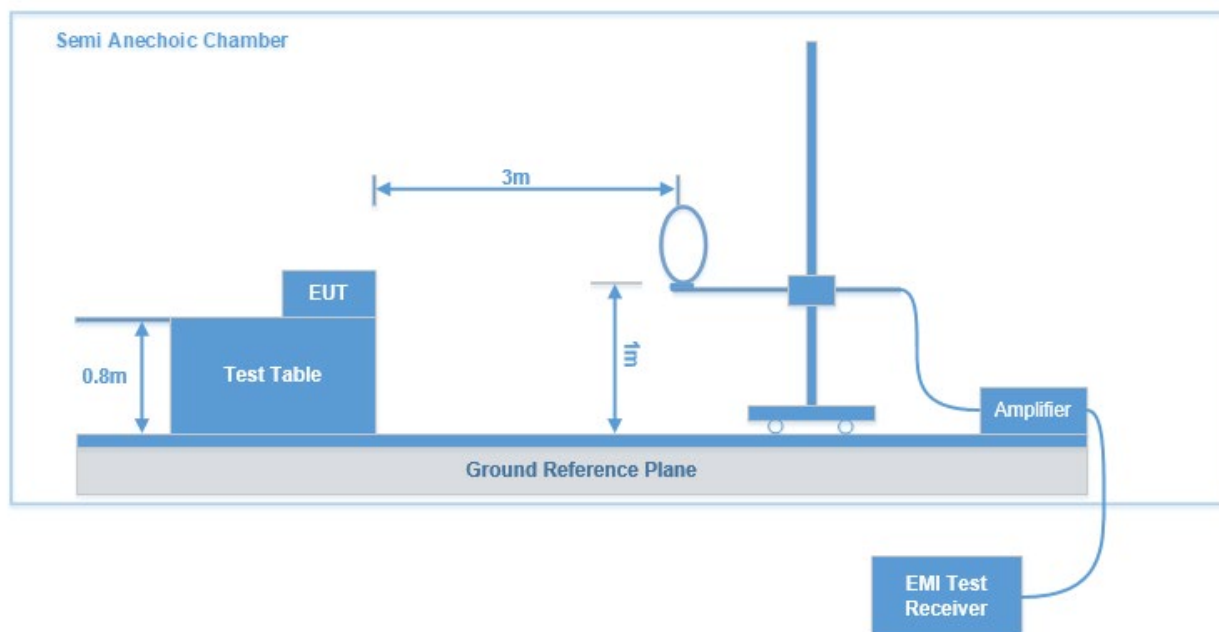
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the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

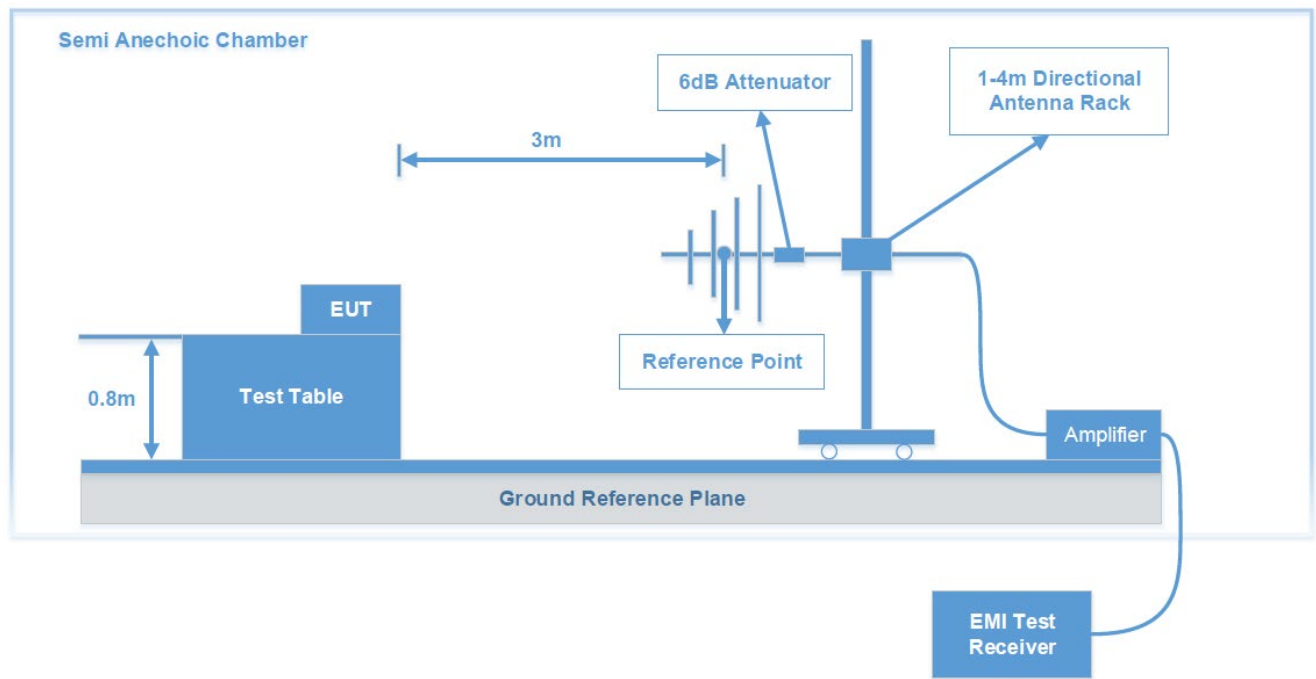
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [dB\mu V/m] = EIRP [dBm] + 95.2$, for $d = 3$ meters.

Test System Setup

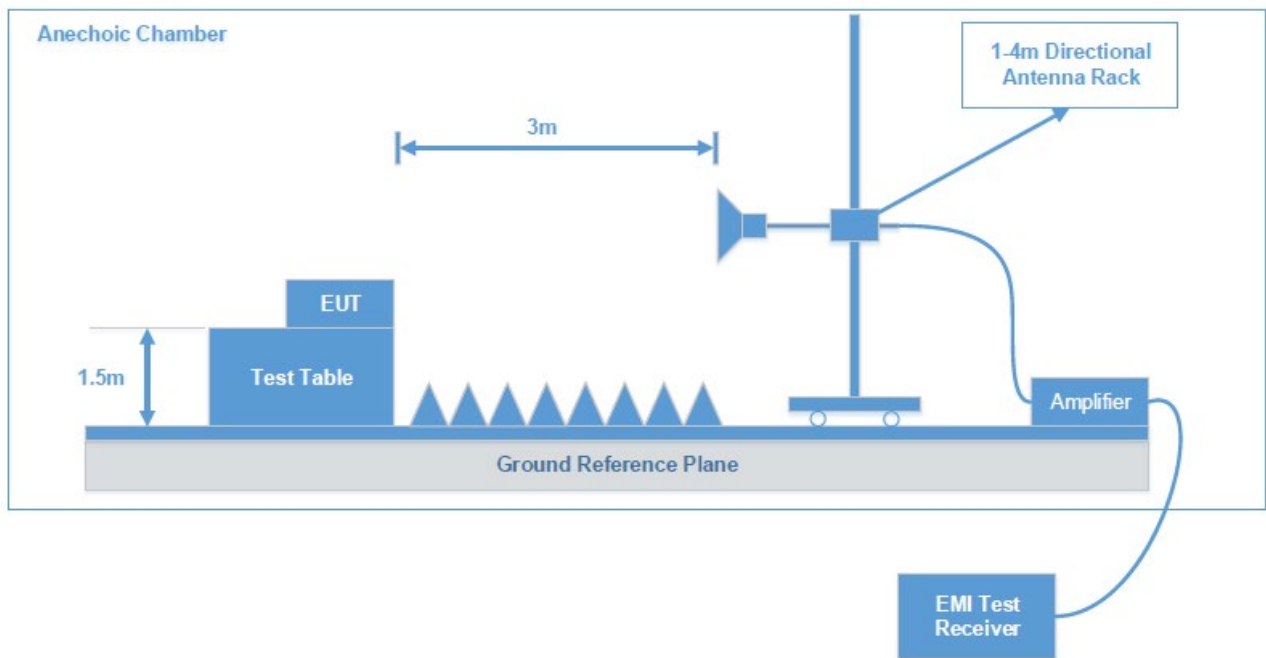
9kHz-30 MHz:



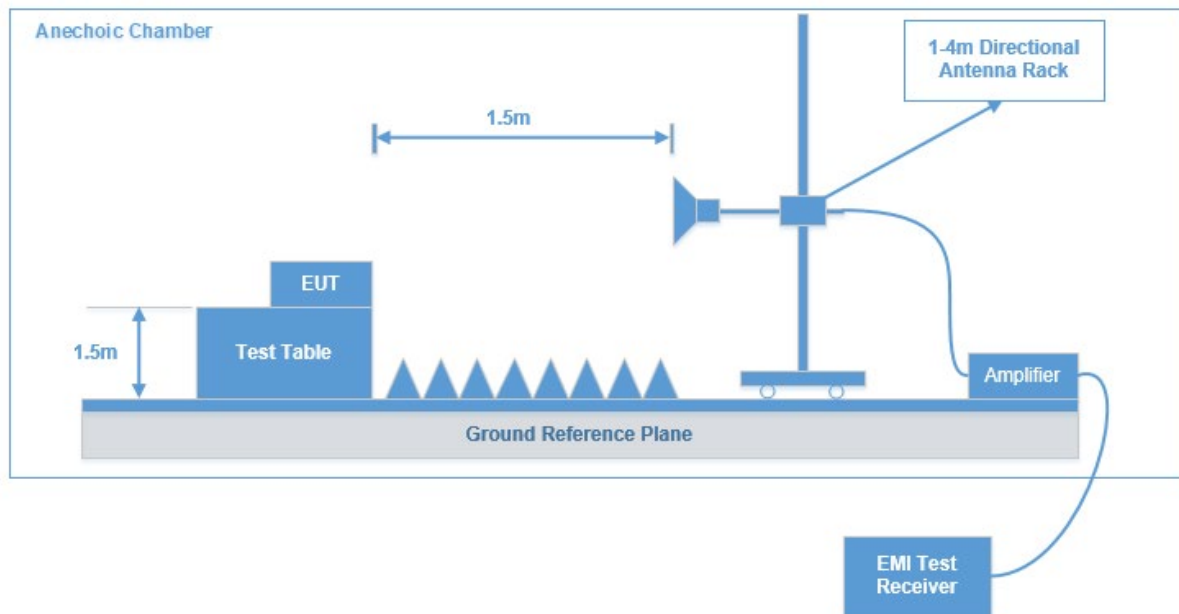
30MHz-1GHz:



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) & §15.407(e)–EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

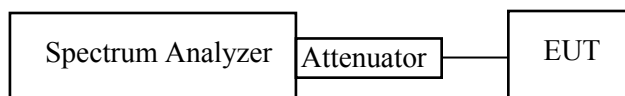
1. Emission Bandwidth (EBW)

- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max-hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



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

Test Data: See Appendix

FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

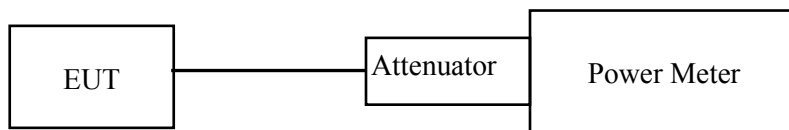
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting 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

FCC §15.407(a) - POWER SPECTRAL DENSITY

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.

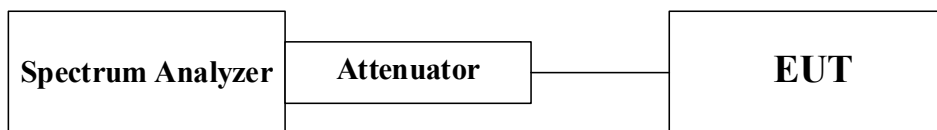
Test Procedure

The measurements are base on C63.10:2020

Duty cycle $\geq 98\%$,Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$,Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$,Method SA-3 should be applied.



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

Test Data: See Appendix

APPENDIX - TEST DATA

CONDUCTED EMISSIONS

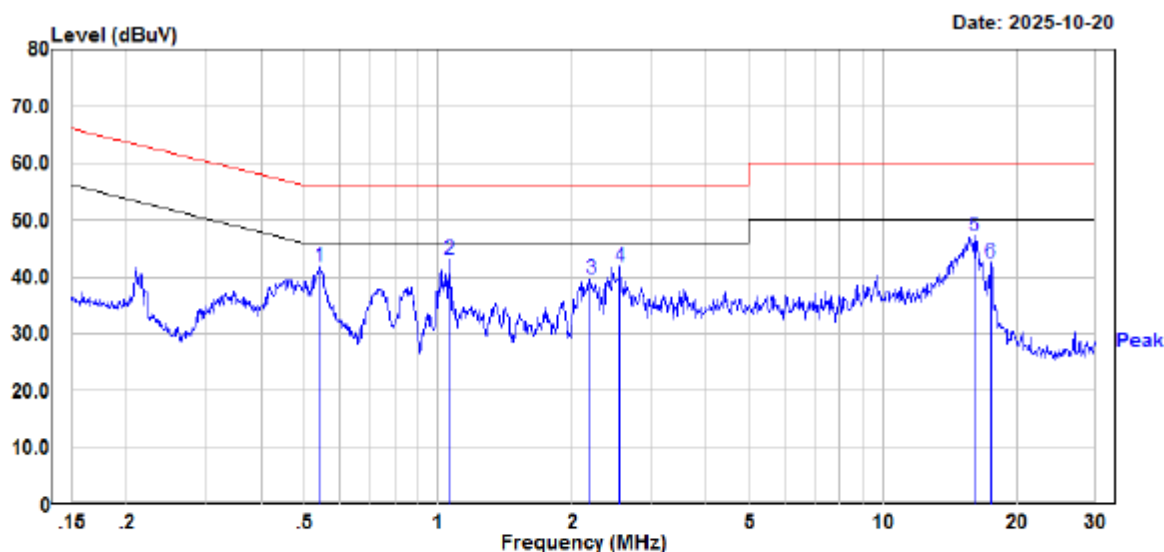
Environmental Conditions & Test Information

Test Date:	2025-10-20 to 2025-10-21
Temperature:	24.9 °C
Relative Humidity:	60 %
ATM Pressure:	101.7 kPa
Test Result:	Pass
Test Engineer:	Jack He

EUT operation mode: Transmitting in 802.11a mode 5825MHz (maximum output power)

Adapter-1

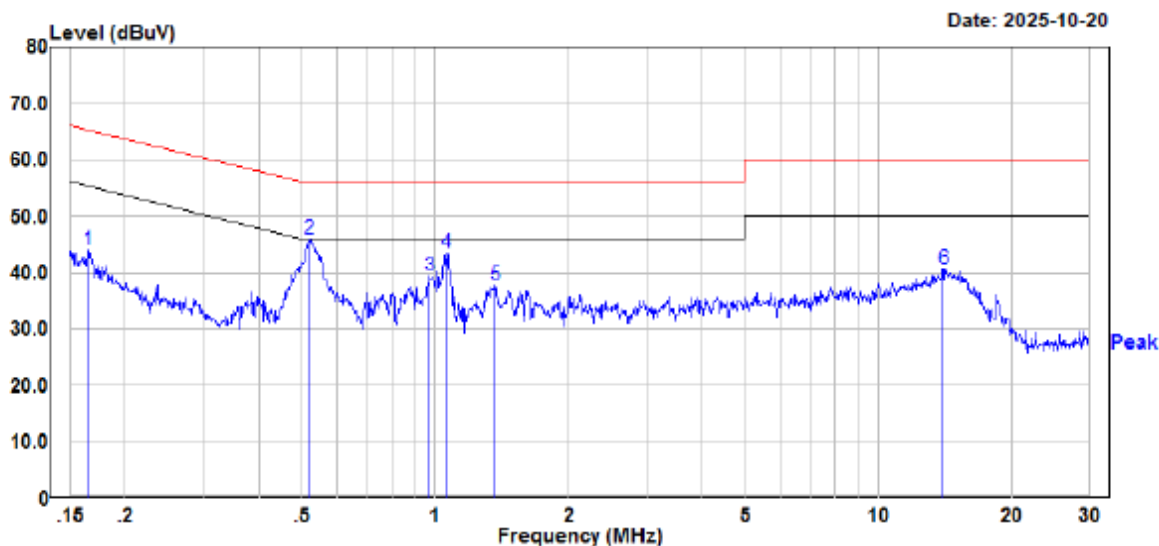
AC 120V/60 Hz, Line



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Line
: DET:Peak
Project No. : RKSA250928001
Model : R010
Phase : L
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 24.9°C
Humidity : 60%
Atmospheric pressure: 101.7kPa
Test Engineer : Jack He

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.543	21.64	20.19	41.83	56.00	-14.17	Peak
2	1.058	22.90	20.17	43.07	56.00	-12.93	Peak
3	2.202	19.43	20.28	39.71	56.00	-16.29	Peak
4	2.557	21.54	20.27	41.81	56.00	-14.19	Peak
5	16.009	26.86	20.32	47.18	60.00	-12.82	Peak
6	17.425	22.29	20.38	42.67	60.00	-17.33	Peak

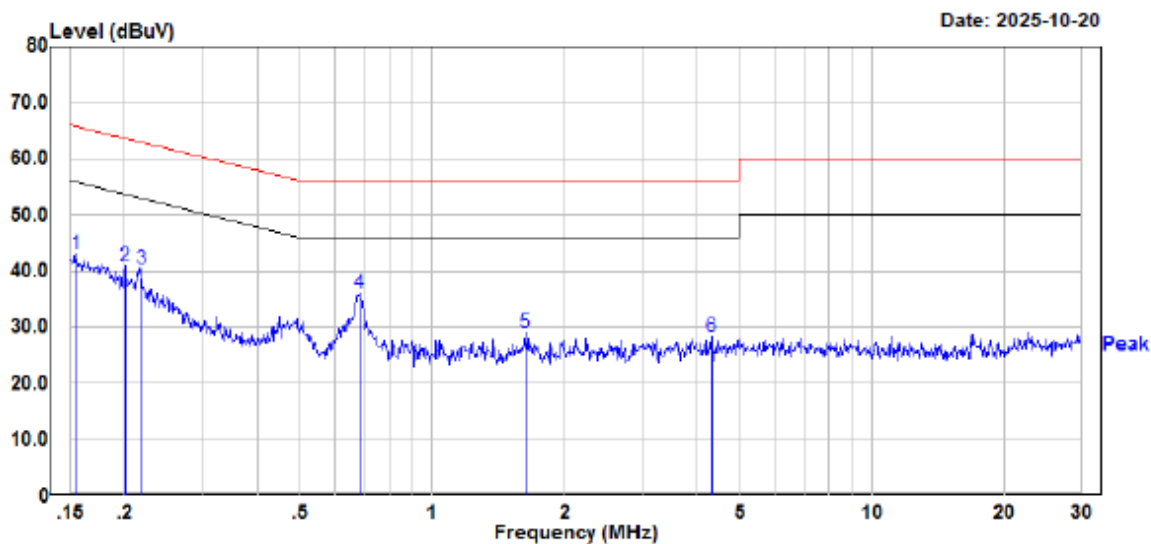
AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Neutral
: DET:Peak
Project No. : RKSA250928001
Model : R010
Phase : N
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 24.9℃
Humidity : 60%
Atmospheric pressure: 101.7kPa
Test Engineer : Jack He

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.166	23.52	20.41	43.93	65.17	-21.24	Peak
2	0.519	25.63	20.21	45.84	56.00	-10.16	Peak
3	0.972	19.31	20.18	39.49	56.00	-16.51	Peak
4	1.058	23.23	20.18	43.41	56.00	-12.59	Peak
5	1.365	17.51	20.22	37.73	56.00	-18.27	Peak
6	13.994	20.40	20.26	40.66	60.00	-19.34	Peak

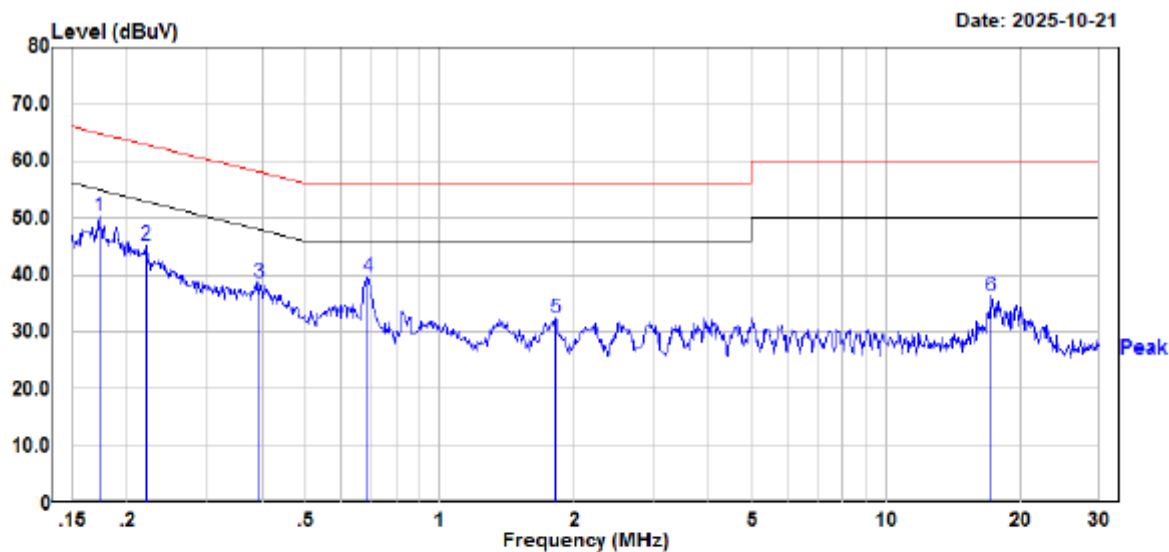
Adapter-2
AC 120V/60 Hz, Line



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Line
: DET:Peak
Project No. : RKSA250928001
Model : R010
Phase : L
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 24.9℃
Humidity : 60%
Atmospheric pressure: 101.7kPa
Test Engineer : Jack He

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.155	22.72	20.42	43.14	65.75	-22.61	Peak
2	0.200	20.32	20.48	40.80	63.60	-22.80	Peak
3	0.218	19.93	20.45	40.38	62.90	-22.52	Peak
4	0.683	15.76	20.25	36.01	56.00	-19.99	Peak
5	1.625	8.65	20.26	28.91	56.00	-27.09	Peak
6	4.316	8.06	20.17	28.23	56.00	-27.77	Peak

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Neutral
Project No. : RKSA250928001
Model : R010
Phase : N
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 24.9℃
Humidity : 60%
Atmospheric pressure: 101.7kPa
Test Engineer : Jack He

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.172	29.80	20.41	50.21	64.84	-14.63	Peak
2	0.220	24.81	20.41	45.22	62.81	-17.59	Peak
3	0.394	18.32	20.31	38.63	57.97	-19.34	Peak
4	0.689	19.49	20.24	39.73	56.00	-16.27	Peak
5	1.813	12.07	20.27	32.34	56.00	-23.66	Peak
6	17.166	15.84	20.38	36.22	60.00	-23.78	Peak

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:	2025-10-23	2025-10-14 to 2025-10-21	2025-10-17 to 2025-11-12	2025-10-18
Temperature:	25 °C	22.2-23.7 °C	20.3-25.7 °C	26.2 °C
Relative Humidity:	40 %	50-56 %	51-53 %	50 %
ATM Pressure:	101.5 kPa	101.6-103.1 kPa	102.1-103.1 kPa	101.7 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

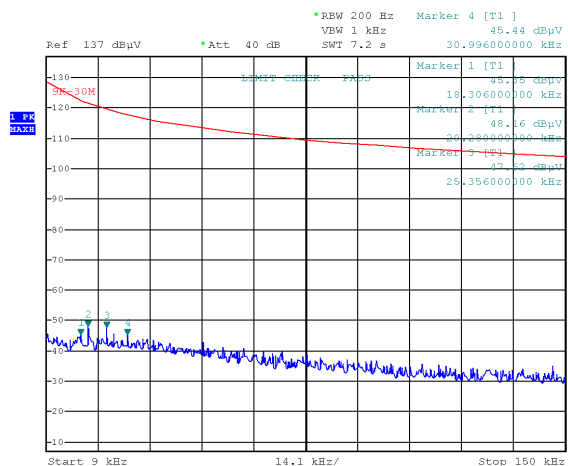
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

9 kHz-30 MHz: Transmitting in 802.11a mode 5825MHz (maximum output power)

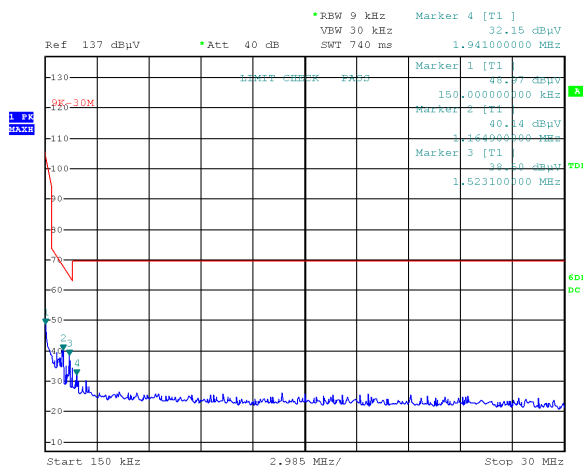
Parallel(worst case)

Adapter-1

9kHz-150kHz



150kHz-30MHz



Project No.RKSA250928001
Date: 23.OCT.2025 18:30:02

Tester:Scarf Yang

Project No.RKSA250928001
Date: 23.OCT.2025 18:44:17

Tester:Scarf Yang

9kHz-150kHz

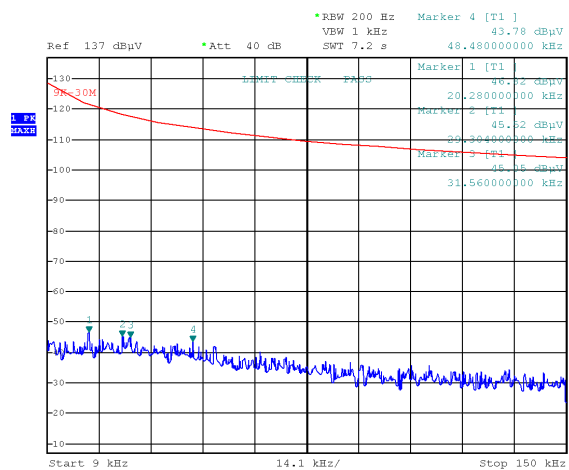
Frequency (MHz)	Corrected Amplitude (dBuV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBuV/m) @3m	Margin (dB)
0.018306	45.39	PK	-0.55	122.35	76.97
0.020280	48.16	PK	-0.56	121.46	73.30
0.025356	47.62	PK	-0.59	119.52	71.90
0.030996	45.44	PK	-0.77	117.78	72.34

150kHz-30MHz

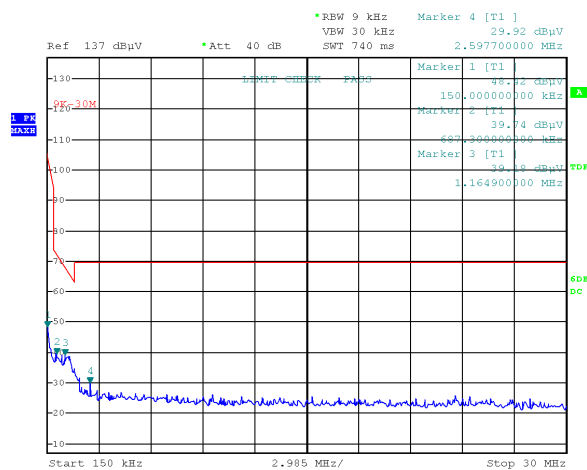
Frequency (MHz)	Corrected Amplitude (dBuV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBuV/m) @3m	Margin (dB)
0.150000	48.97	PK	-11.34	104.08	55.11
1.164900	40.14	PK	-28.15	66.28	26.14
1.523100	38.50	PK	-29.34	63.95	25.45
1.941000	32.15	PK	-30.72	69.54	37.39

Adapter-2

9kHz-150kHz



150kHz-30MHz



Project No. RKSA250928001
Date: 23.OCT.2025 17:46:17

Tester: Scarf Yang

Project No. RKSA250928001
Date: 23.OCT.2025 17:51:15

Tester: Scarf Yang

9kHz-150kHz

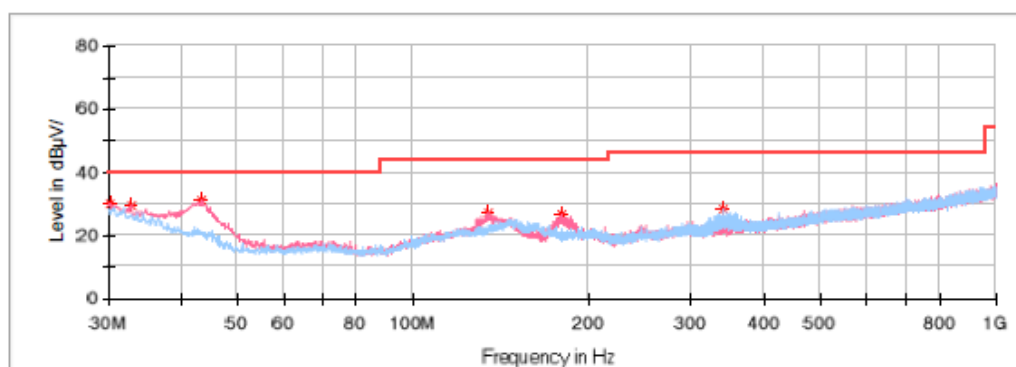
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.020280	46.82	PK	-0.56	121.46	74.64
0.029304	45.52	PK	-0.61	118.27	72.75
0.031560	45.05	PK	-0.86	117.62	72.57
0.048480	43.78	PK	-3.57	113.89	70.11

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	48.42	PK	-11.34	104.08	55.66
0.687300	39.74	PK	-24.78	70.86	31.12
1.164900	39.18	PK	-28.15	66.28	27.10
2.597700	29.92	PK	-31.21	69.54	39.62

30MHz-1GHz: Transmitting in 802.11a mode 5825MHz (maximum output power)*Adapter-1***Common Information**

Project No:	RKSA250928001
EUT Model:	R010
Test Mode:	Transmitting in 802.11a mode low channel
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:	22.2°C
Humidity:	50%
Barometric Pressure:	103.1Pa
Test Engineer:	Scarf Yang
Test Date:	2025/10/21

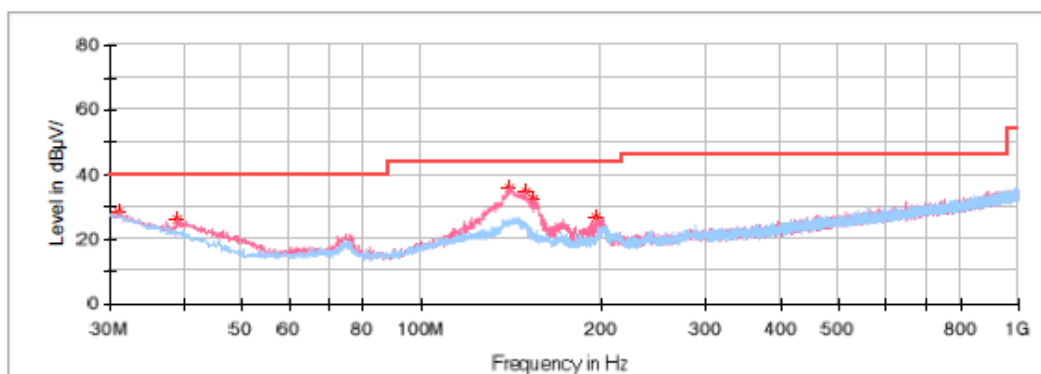
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	29.99	40.00	10.01	V	-4.8
32.788750	29.39	40.00	10.61	V	-6.6
43.458750	31.25	40.00	8.75	V	-13.3
134.275000	27.01	43.50	16.49	V	-11.1
179.986250	26.61	43.50	16.89	V	-13.0
340.278750	28.45	46.00	17.55	H	-9.4

Adapter-2

Common Information

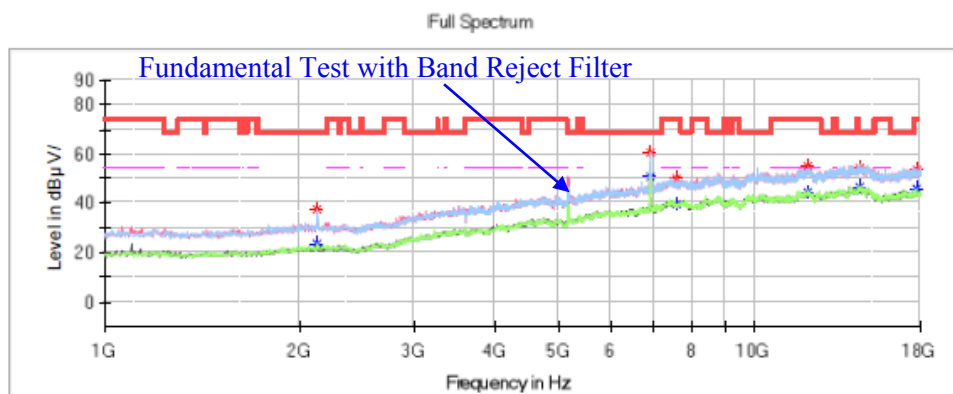
Project No: RKSA250928001
EUT Model: R010
Test Mode: Transmitting in 802.11a mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 23.7°C
Humidity: 56%
Barometric Pressure: 101.6Pa
Test Engineer: Scarf Yang
Test Date: 2025/10/14

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.091250	28.50	40.00	11.50	V	-5.4
39.093750	25.89	40.00	14.11	V	-10.7
140.216250	35.72	43.50	7.78	V	-11.2
149.673750	34.34	43.50	9.16	V	-11.7
154.645000	32.45	43.50	11.05	V	-11.9
196.355000	26.58	43.50	16.92	V	-12.3

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

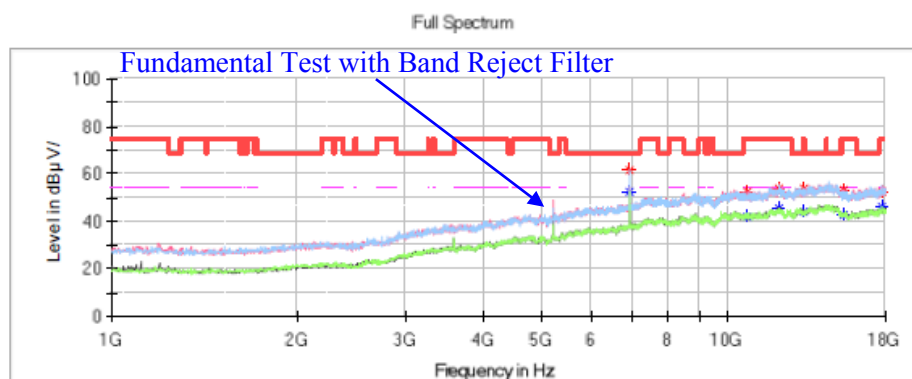
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11a mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.7℃
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	37.77	---	68.20	30.43	V	-9.9
6905.800000	60.45	---	68.20	7.75	H	1.1
7572.200000	---	39.54	54.00	14.46	H	3.0
7572.200000	50.42	---	74.00	23.58	H	3.0
12121.400000	54.99	---	74.00	19.01	V	9.0
12121.400000	---	44.46	54.00	9.54	V	9.0
14491.200000	---	46.94	54.00	7.06	V	12.0
14491.200000	54.60	---	74.00	19.40	V	12.0
17806.200000	---	45.74	54.00	8.26	H	11.2
17806.200000	53.54	---	74.00	20.46	H	11.2

Middle Channel: 5200MHz**Common Information**

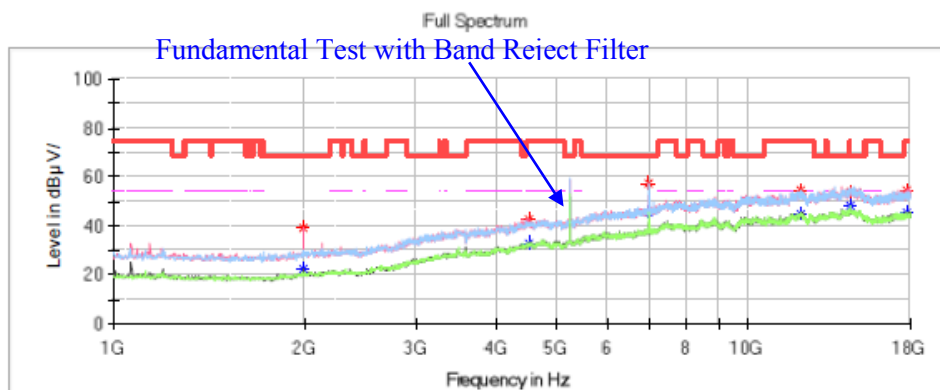
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11a mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.7°C
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
6933.000000	61.65	---	68.20	6.55	H	1.2
10747.800000	---	42.13	54.00	11.87	V	6.7
10747.800000	52.72	---	74.00	21.28	V	6.7
12104.400000	53.63	---	74.00	20.37	H	9.0
12104.400000	---	45.46	54.00	8.54	H	9.0
13284.200000	---	43.90	54.00	10.10	V	9.6
13284.200000	53.68	---	74.00	20.32	V	9.6
15409.200000	---	42.68	54.00	11.32	H	9.1
15409.200000	53.07	---	74.00	20.93	H	9.1
17809.600000	52.70	---	74.00	21.30	V	11.3
17809.600000	---	45.82	54.00	8.18	V	11.3

High Channel: 5240MHz**Common Information**

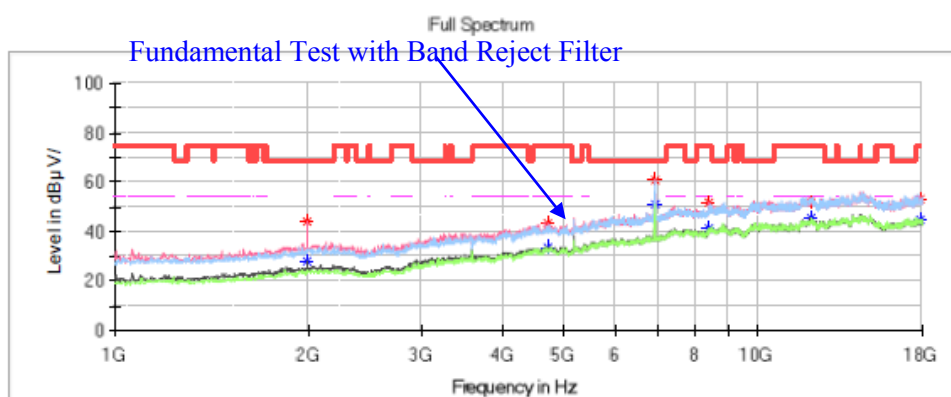
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: 5G WIFI 802.11a mode High Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 25.7℃
 Humidity: 52%
 Atmospheric Pressure: 102.1kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/17

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1989.400000	39.14	---	68.20	29.06	V	-10.1
4502.000000	42.71	---	74.00	31.29	V	-4.2
4502.000000	---	32.63	54.00	21.37	V	-4.2
6987.400000	57.53	---	68.20	10.67	H	1.4
12090.800000	---	44.95	54.00	9.05	V	9.0
12090.800000	54.47	---	74.00	19.53	V	9.0
14477.600000	53.82	---	74.00	20.18	V	11.9
14477.600000	---	47.95	54.00	6.05	V	11.9
17796.000000	---	45.57	54.00	8.43	V	11.2
17802.800000	54.24	---	74.00	19.76	V	11.2

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

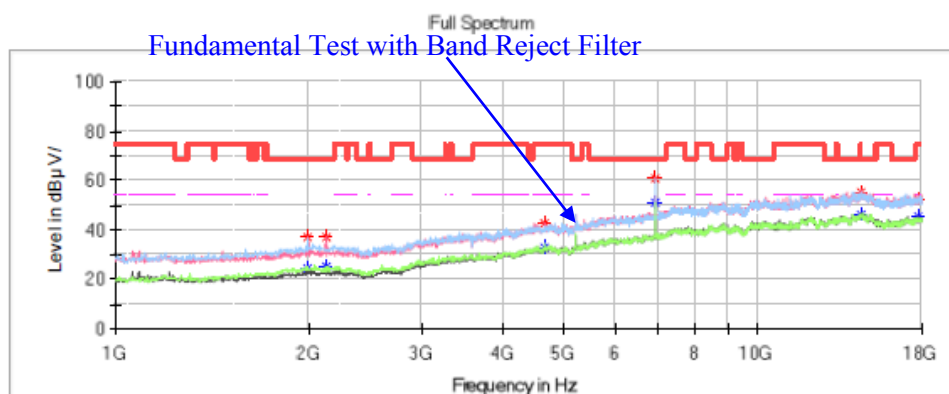
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.7℃
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1992.800000	43.75	---	68.20	24.45	V	-10.1
4719.600000	---	33.44	54.00	20.56	V	-3.6
4719.600000	43.55	---	74.00	30.45	V	-3.6
6905.800000	60.82	---	68.20	7.38	H	1.1
8415.400000	51.72	---	74.00	22.28	V	4.5
8415.400000	---	41.11	54.00	12.89	V	4.5
12131.600000	51.97	---	74.00	22.03	H	9.0
12131.600000	---	45.47	54.00	8.53	H	9.0
17908.200000	---	45.00	54.00	9.00	V	11.5
17908.200000	53.07	---	74.00	20.93	V	11.5

Middle Channel: 5200MHz**Common Information**

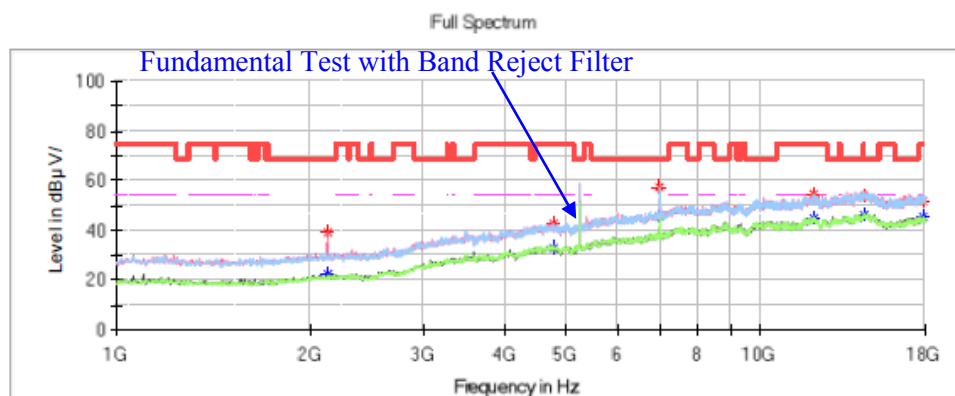
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac20 mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.7°C
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1996.200000	37.32	---	68.20	30.88	H	-10.0
2132.200000	36.75	---	68.20	31.45	V	-9.9
4655.000000	---	32.90	54.00	21.10	V	-3.8
4655.000000	42.54	---	74.00	31.46	V	-3.8
6933.000000	60.84	---	68.20	7.36	H	1.2
14481.000000	---	46.37	54.00	7.63	H	11.9
14481.000000	55.23	---	74.00	18.77	H	11.9
17799.400000	52.49	---	74.00	21.51	V	11.2
17799.400000	---	45.18	54.00	8.82	V	11.2

High Channel: 5240MHz**Common Information**

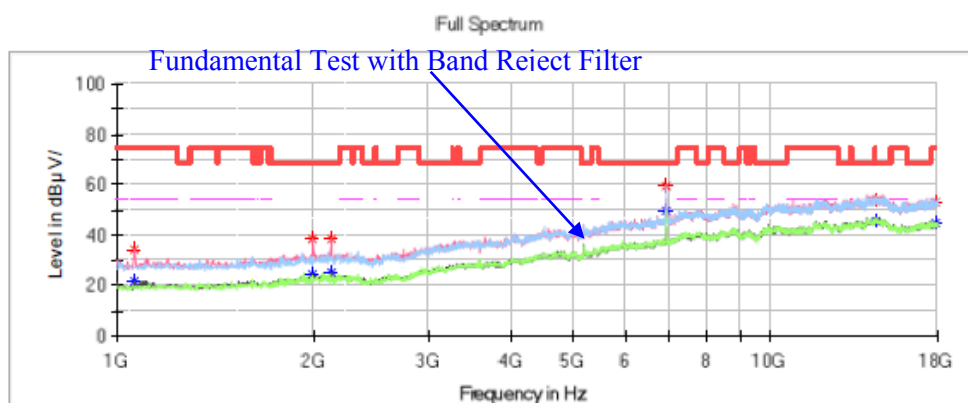
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: 5G WIFI 802.11ac20 mode High Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 25.7°C
 Humidity: 52%
 Atmospheric Pressure: 102.1kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/17

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2132.200000	38.92	---	68.20	29.28	V	-9.9
4770.600000	---	32.96	54.00	21.04	H	-3.5
4770.600000	42.97	---	74.00	31.03	H	-3.5
6987.400000	57.02	---	68.20	11.18	H	1.4
12067.000000	---	44.72	54.00	9.28	V	9.0
12067.000000	54.45	---	74.00	19.55	V	9.0
14494.600000	---	45.96	54.00	8.04	V	12.0
14494.600000	53.89	---	74.00	20.11	V	12.0
17867.400000	51.76	---	74.00	22.24	H	11.4
17867.400000	---	45.20	54.00	8.80	H	11.4

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

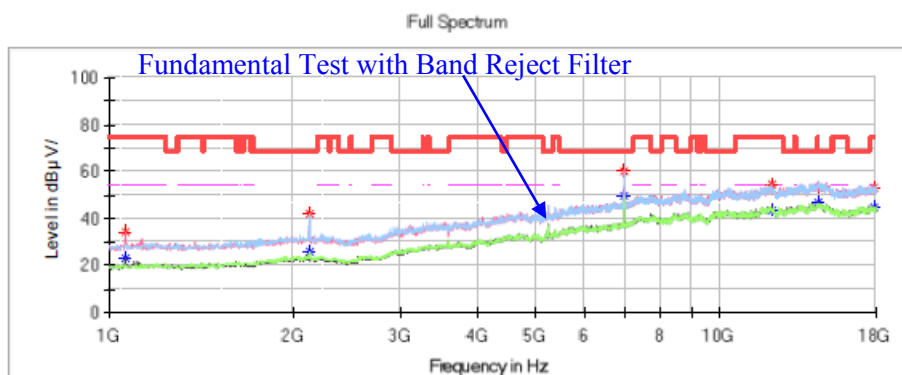
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: 5G WIFI 802.11ac40 mode Low Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 25.7°C
 Humidity: 52%
 Atmospheric Pressure: 102.1kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/17

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	33.93	---	74.00	40.07	V	-15.0
1064.600000	---	21.61	54.00	32.39	V	-15.0
1996.200000	38.11	---	68.20	30.09	V	-10.0
2128.800000	38.62	---	68.20	29.58	V	-9.9
6919.400000	59.50	---	68.20	8.70	H	1.1
14498.000000	---	45.70	54.00	8.30	V	12.0
14498.000000	54.04	---	74.00	19.96	V	12.0
17908.200000	---	45.05	54.00	8.95	H	11.5
17908.200000	53.10	---	74.00	20.90	H	11.5

Channel: 5230MHz**Common Information**

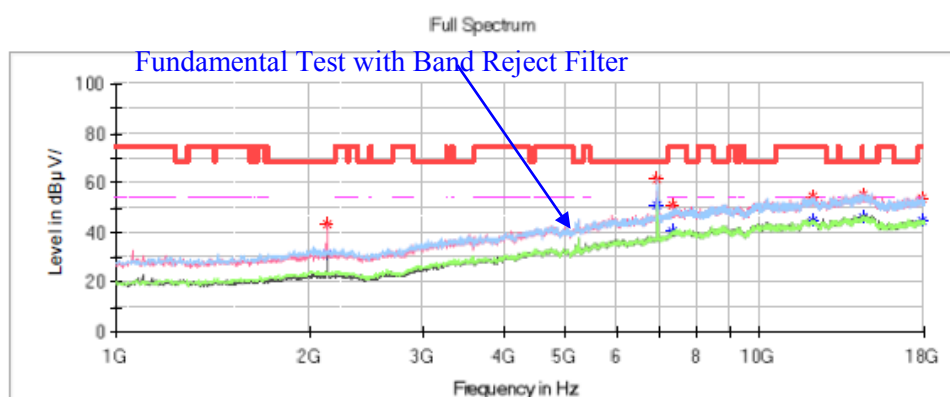
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac40 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.7°C
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	23.42	54.00	30.58	V	-15.0
1061.200000	33.95	---	74.00	40.05	V	-15.0
2125.400000	41.83	---	68.20	26.37	H	-9.9
6973.800000	59.81	---	68.20	8.39	H	1.4
12206.400000	---	43.38	54.00	10.62	V	8.9
12206.400000	54.23	---	74.00	19.77	V	8.9
14498.000000	---	46.72	54.00	7.28	H	12.0
14498.000000	53.45	---	74.00	20.55	H	12.0
17853.800000	53.32	---	74.00	20.68	V	11.4
17853.800000	---	45.04	54.00	8.96	V	11.4

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

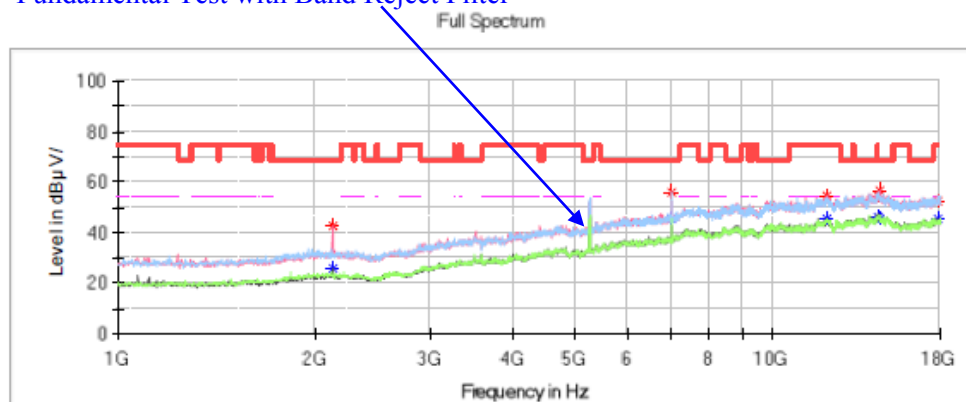
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac80
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.7°C
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	43.39	---	68.20	24.81	V	-9.9
6946.600000	61.20	---	68.20	7.00	H	1.3
7337.600000	---	40.57	54.00	13.43	V	2.5
7337.600000	50.72	---	74.00	23.28	V	2.5
12128.200000	54.53	---	74.00	19.47	V	9.0
12128.200000	---	44.59	54.00	9.41	V	9.0
14498.000000	54.94	---	74.00	19.06	V	12.0
14498.000000	---	45.94	54.00	8.06	V	12.0
17836.800000	---	45.10	54.00	8.90	H	11.3
17836.800000	53.99	---	74.00	20.01	H	11.3

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

Project No.: RKSA250928001
 EUT Model: R010
 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: 25.1℃
 Humidity: 52%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/19

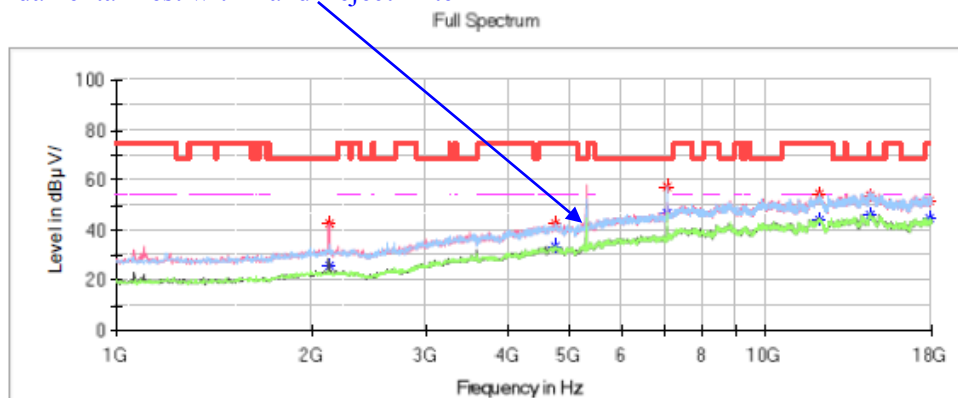
Fundamental Test with Band Reject Filter**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2125.400000	42.34	---	68.20	25.86	V	-9.9
7011.200000	55.89	---	68.20	12.31	H	1.5
12067.000000	54.64	---	74.00	19.36	V	9.0
12067.000000	---	45.13	54.00	8.87	V	9.0
14498.000000	---	45.82	54.00	8.18	H	12.0
14498.000000	54.32	---	74.00	19.68	H	12.0
14535.400000	56.73	---	68.20	11.47	V	11.9
17938.800000	52.64	---	74.00	21.36	V	11.6
17938.800000	---	45.33	54.00	8.67	V	11.6

Middle Channel: 5300MHz**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

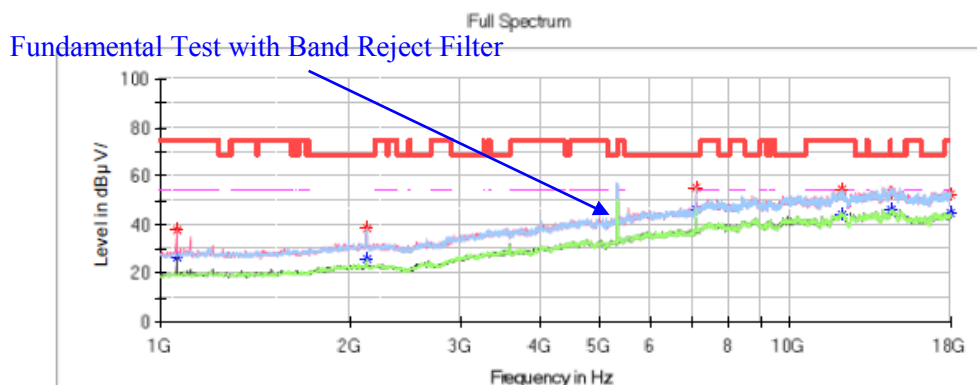
Fundamental Test with Band Reject Filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	42.70	---	68.20	25.50	V	-9.9
4750.200000	---	33.24	54.00	20.76	V	-3.5
4750.200000	42.83	---	74.00	31.17	V	-3.5
7065.600000	57.39	---	68.20	10.81	H	1.7
12124.800000	54.28	---	74.00	19.72	H	9.0
12124.800000	---	44.15	54.00	9.85	H	9.0
14494.600000	---	46.16	54.00	7.84	H	12.0
14494.600000	54.17	---	74.00	19.83	H	12.0
17918.400000	---	44.57	54.00	9.43	H	11.5
17918.400000	51.92	---	74.00	22.08	H	11.5

High Channel: 5320MHz**Common Information**

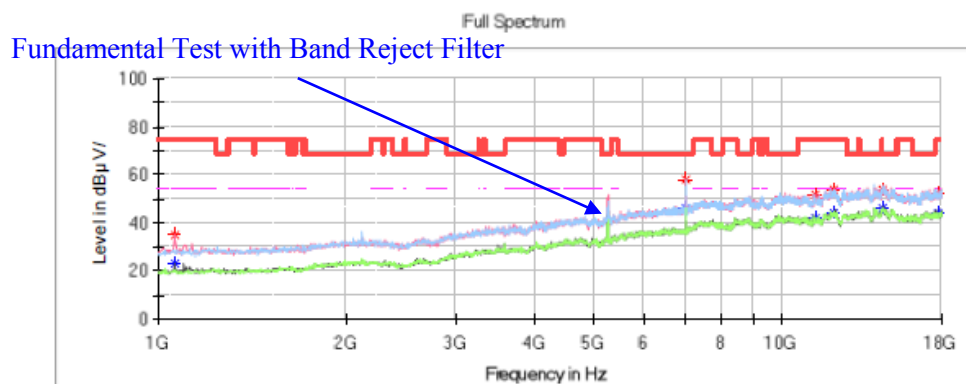
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	26.50	54.00	27.50	V	-15.0
1061.200000	38.10	---	74.00	35.90	V	-15.0
2125.400000	38.53	---	68.20	29.67	H	-9.9
7092.800000	55.57	---	68.20	12.63	H	1.8
12131.600000	---	43.88	54.00	10.12	V	9.0
12131.600000	54.28	---	74.00	19.72	V	9.0
14491.200000	53.40	---	74.00	20.60	H	12.0
14491.200000	---	46.25	54.00	7.75	H	12.0
17969.400000	52.71	---	74.00	21.29	V	11.7
17969.400000	---	44.45	54.00	9.55	V	11.7

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

Project No.: RKSA250928001
EUT Model: R010
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: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

**Critical Freqs**

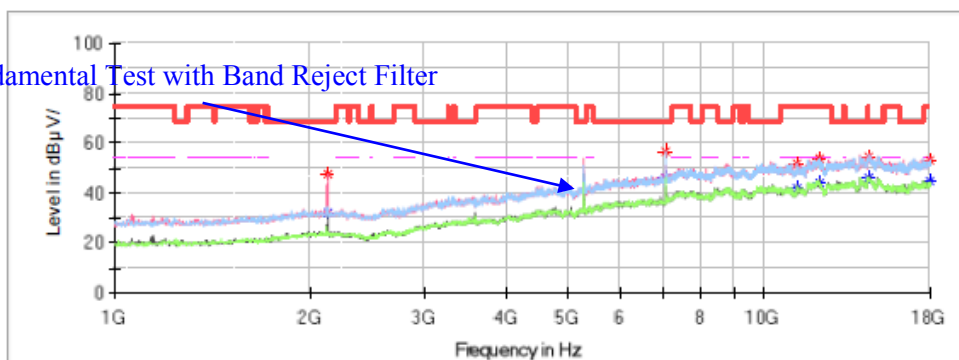
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	34.63	---	74.00	39.37	V	-15.0
1061.200000	---	22.91	54.00	31.09	V	-15.0
7011.200000	57.81	---	68.20	10.39	H	1.5
11285.000000	---	41.97	54.00	12.03	H	7.5
11285.000000	51.97	---	74.00	22.03	H	7.5
12124.800000	---	44.27	54.00	9.73	V	9.0
12124.800000	53.77	---	74.00	20.23	V	9.0
14487.800000	53.89	---	74.00	20.11	V	11.9
14487.800000	---	45.97	54.00	8.03	V	11.9
17806.200000	52.44	---	74.00	21.56	H	11.2
17806.200000	---	44.36	54.00	9.64	H	11.2

Middle Channel: 5300MHz**Common Information**

Project No.: RKSA250928001
 EUT Model: R010
 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: 25.1℃
 Humidity: 52%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/19

Full Spectrum

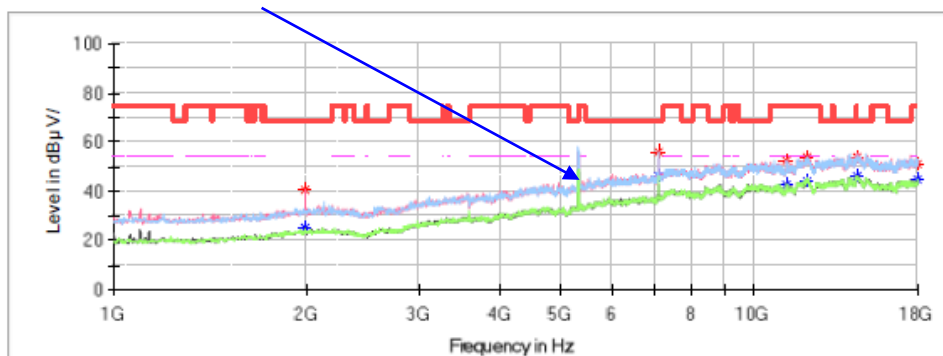
Fundamental Test with Band Reject Filter

**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)
2128.800000	47.53	---	68.20	20.67	V	-9.9
7038.400000	56.66	---	68.20	11.54	H	1.6
11244.200000	---	41.89	54.00	12.11	V	7.3
11244.200000	52.03	---	74.00	21.97	V	7.3
12141.800000	---	44.11	54.00	9.89	H	9.0
12141.800000	53.70	---	74.00	20.30	H	9.0
14498.000000	---	46.02	54.00	7.98	V	12.0
14498.000000	54.49	---	74.00	19.51	V	12.0
18000.000000	52.93	---	74.00	21.07	H	11.8
18000.000000	---	44.76	54.00	9.24	H	11.8

High Channel: 5320MHz**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

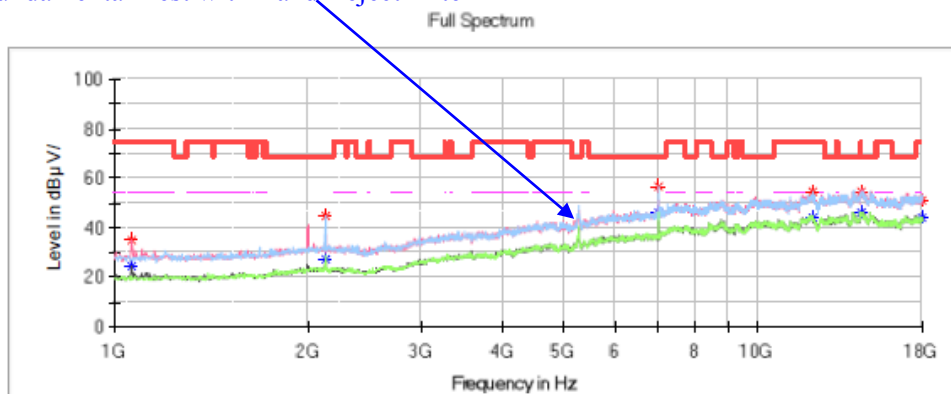
Fundamental Test with Band Reject Filter Full Spectrum**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1992.800000	40.70	---	68.20	27.50	V	-10.1
7092.800000	55.63	---	68.20	12.57	H	1.8
11213.600000	---	42.44	54.00	11.56	H	7.3
11213.600000	52.45	---	74.00	21.55	H	7.3
12107.800000	---	43.77	54.00	10.23	H	9.0
12107.800000	53.72	---	74.00	20.28	H	9.0
14491.200000	54.12	---	74.00	19.88	H	12.0
14491.200000	---	46.12	54.00	7.88	H	12.0
17983.000000	51.18	---	74.00	22.82	V	11.7
17983.000000	---	44.70	54.00	9.30	V	11.7

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

Project No.: RKSA250928001
EUT Model: R010
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: 25.1℃
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

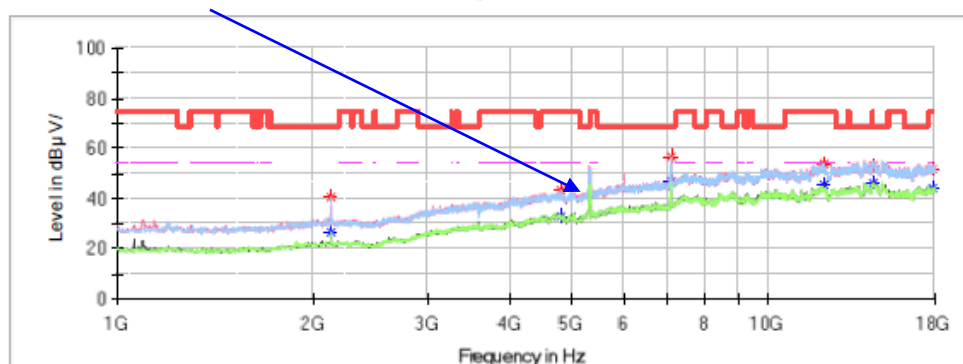
Fundamental Test with Band Reject Filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	24.31	54.00	29.69	V	-15.0
1061.200000	34.92	---	74.00	39.08	V	-15.0
2125.400000	44.69	---	68.20	23.51	H	-9.9
7024.800000	56.35	---	68.20	11.85	H	1.6
12165.600000	---	43.80	54.00	10.20	V	9.0
12165.600000	54.36	---	74.00	19.64	V	9.0
14494.600000	---	46.18	54.00	7.82	V	12.0
14494.600000	54.89	---	74.00	19.11	V	12.0
17962.600000	51.22	---	74.00	22.78	H	11.7
17962.600000	---	44.21	54.00	9.79	H	11.7

High Channel: 5310MHz**Common Information**

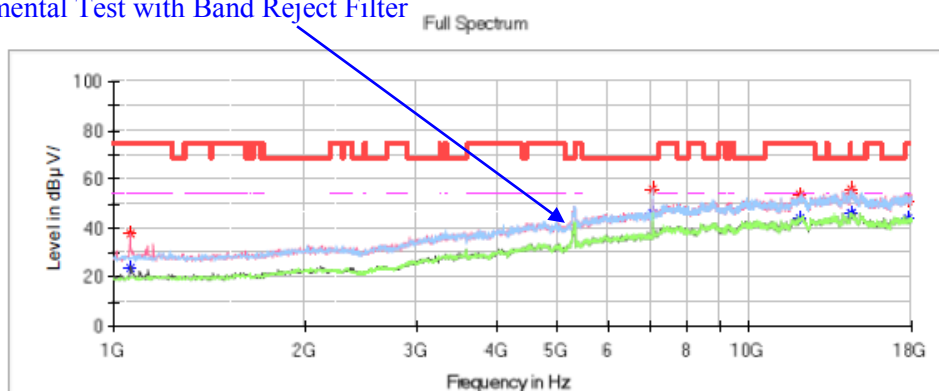
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: 5G WIFI 802.11ac40 mode High Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 25.1℃
 Humidity: 52%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/19

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)
2128.800000	40.88	---	68.20	27.32	H	-9.9
4791.000000	---	33.20	54.00	20.80	H	-3.4
4791.000000	43.29	---	74.00	30.71	H	-3.4
7079.200000	56.62	---	68.20	11.58	H	1.7
12158.800000	---	45.11	54.00	8.89	V	9.0
12158.800000	54.02	---	74.00	19.98	V	9.0
14484.400000	53.48	---	74.00	20.52	H	11.9
14484.400000	---	46.16	54.00	7.84	H	11.9
17928.600000	51.54	---	74.00	22.46	V	11.6
17928.600000	---	43.93	54.00	10.07	V	11.6

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

Project No.: RKSA250928001
EUT Model: R010
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: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

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

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	23.90	54.00	30.10	V	-15.0
1061.200000	37.76	---	74.00	36.24	V	-15.0
7052.000000	55.81	---	68.20	12.39	H	1.7
12033.000000	---	44.16	54.00	9.84	V	9.0
12033.000000	53.84	---	74.00	20.16	V	9.0
14450.400000	55.86	---	68.20	12.34	H	11.9
14487.800000	54.20	---	74.00	19.80	V	11.9
14487.800000	---	46.01	54.00	7.99	V	11.9
17830.000000	51.15	---	74.00	22.85	H	11.3
17830.000000	---	44.23	54.00	9.77	H	11.3

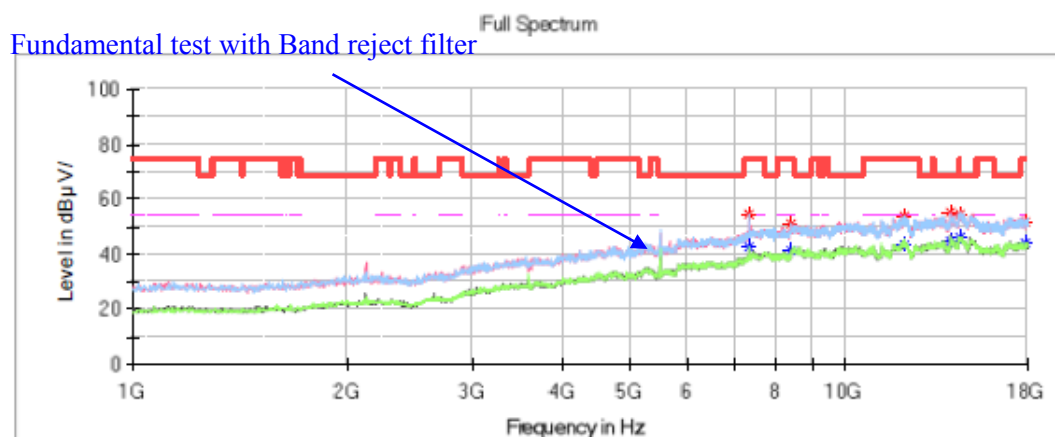
1GHz-18GHz(5470-5725MHz Band):

802.11a Mode:

Low Channel: 5500MHz

Common Information

Project No.: RKSA250928001
 EUT Model: R010
 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: 25.1°C
 Humidity: 52%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/19

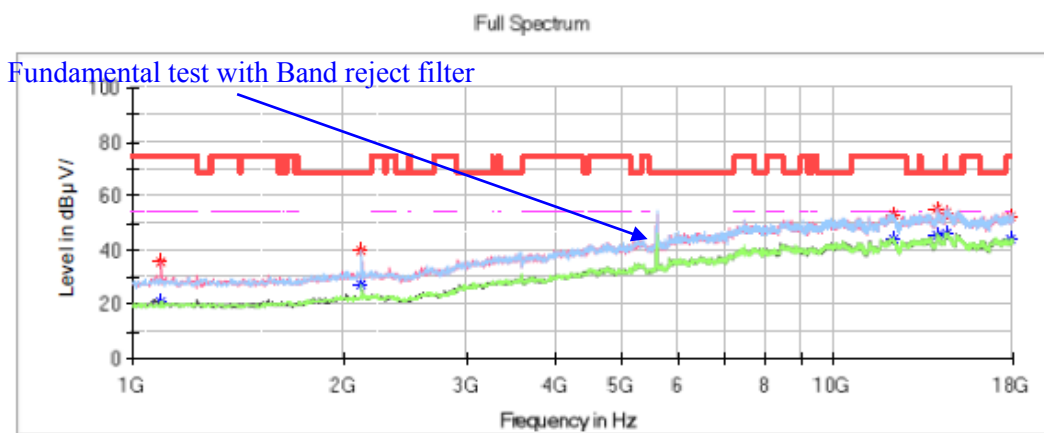


Critical Freqs

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
7334.200000	54.40	---	74.00	19.60	H	2.5
7334.200000	---	42.77	54.00	11.23	H	2.5
8405.200000	---	41.22	54.00	12.78	H	4.4
8405.200000	50.86	---	74.00	23.14	H	4.4
12080.600000	---	43.43	54.00	10.57	V	9.0
12080.600000	53.67	---	74.00	20.33	V	9.0
14042.400000	55.02	---	68.20	13.18	V	11.2
14477.600000	54.45	---	74.00	19.55	H	11.9
14477.600000	---	46.30	54.00	7.70	H	11.9
17932.000000	51.61	---	74.00	22.39	H	11.6
17932.000000	---	44.34	54.00	9.66	H	11.6

Middle Channel: 5600MHz**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1℃
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

**Critical Freqs**

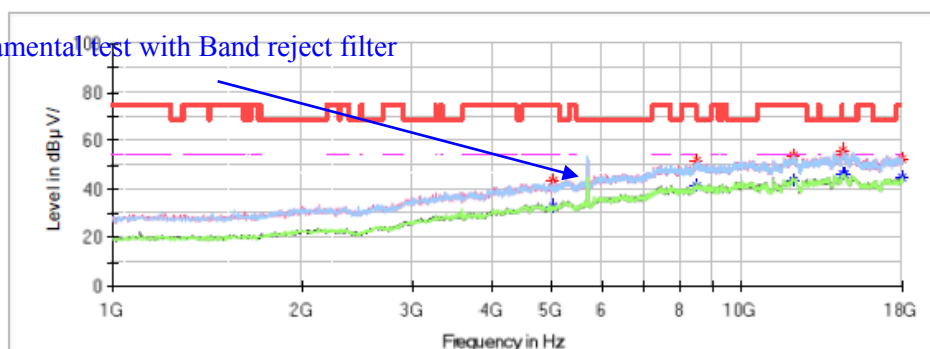
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.600000	---	21.17	54.00	32.83	V	-14.9
1098.600000	35.42	---	74.00	38.58	V	-14.9
2122.000000	40.14	---	68.20	28.06	H	-9.9
12158.800000	---	43.95	54.00	10.05	H	9.0
12158.800000	53.39	---	74.00	20.61	H	9.0
14008.400000	55.53	---	68.20	12.67	V	11.1
14491.200000	53.92	---	74.00	20.08	V	12.0
14491.200000	---	46.36	54.00	7.64	V	12.0
17884.400000	---	43.96	54.00	10.04	H	11.5
17884.400000	52.11	---	74.00	21.89	H	11.5

High Channel: 5700MHz**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

Full Spectrum

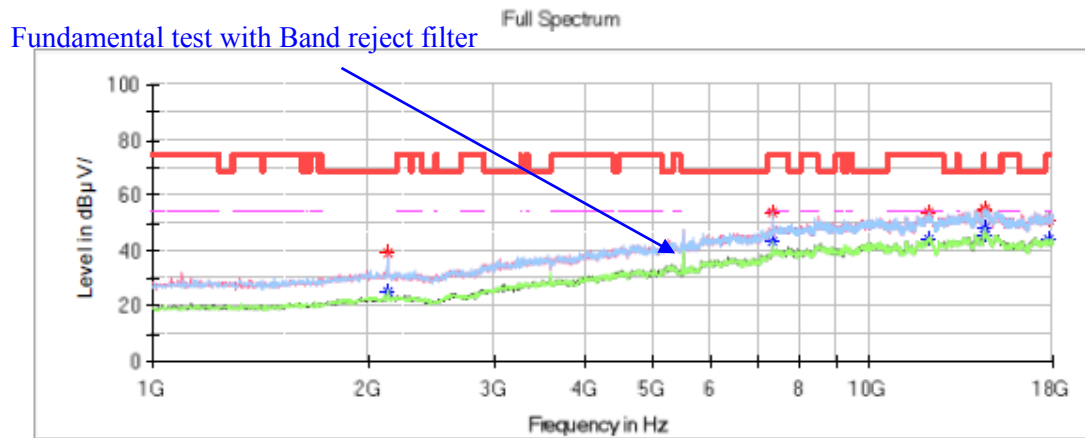
Fundamental test with Band reject filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
5015.400000	---	33.12	54.00	20.88	H	-2.9
5015.400000	43.13	---	74.00	30.87	H	-2.9
8473.200000	---	41.04	54.00	12.96	V	4.6
8473.200000	51.62	---	74.00	22.38	V	4.6
12094.200000	---	43.68	54.00	10.32	V	9.0
12094.200000	53.88	---	74.00	20.12	V	9.0
14487.800000	54.46	---	74.00	19.54	V	11.9
14487.800000	---	46.30	54.00	7.70	V	11.9
14532.000000	55.82	---	68.20	12.38	H	11.9
17962.600000	52.25	---	74.00	21.75	V	11.7
17962.600000	---	44.52	54.00	9.48	V	11.7

802.11ac20 Mode:**Low Channel: 5500MHz****Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

**Critical Freqs**

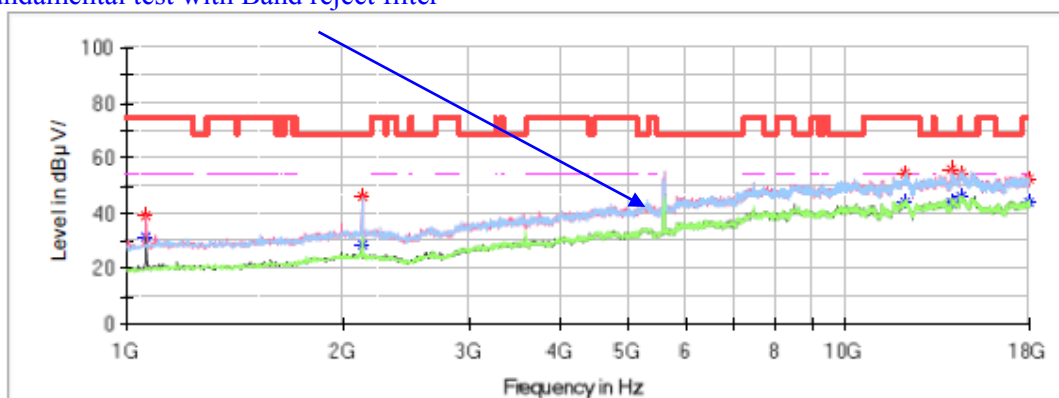
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	38.96	---	68.20	29.24	H	-9.9
7334.200000	---	43.04	54.00	10.96	H	2.5
7334.200000	53.56	---	74.00	20.44	H	2.5
12118.000000	---	44.30	54.00	9.70	V	9.0
12118.000000	53.82	---	74.00	20.18	V	9.0
14457.200000	55.53	---	68.20	12.67	H	11.9
14491.200000	54.44	---	74.00	19.56	H	12.0
14491.200000	---	47.98	54.00	6.02	H	12.0
17738.200000	50.95	---	74.00	23.05	V	11.1
17738.200000	---	44.02	54.00	9.98	V	11.1

Middle Channel: 5600MHz**Common Information**

Project No.: RKSA250928001
 EUT Model: R010
 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: 25.1℃
 Humidity: 52%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/19

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)
1064.600000	---	31.69	54.00	22.31	V	-15.0
1064.600000	39.11	---	74.00	34.89	V	-15.0
2128.800000	46.17	---	68.20	22.03	V	-9.9
12087.400000	---	44.09	54.00	9.91	V	9.0
12087.400000	54.26	---	74.00	19.74	V	9.0
14035.600000	55.87	---	68.20	12.33	H	11.2
14494.600000	---	46.25	54.00	7.75	H	12.0
14494.600000	54.46	---	74.00	19.54	H	12.0
17969.400000	52.65	---	74.00	21.35	V	11.7
17969.400000	---	43.90	54.00	10.10	V	11.7

High Channel: 5700MHz**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

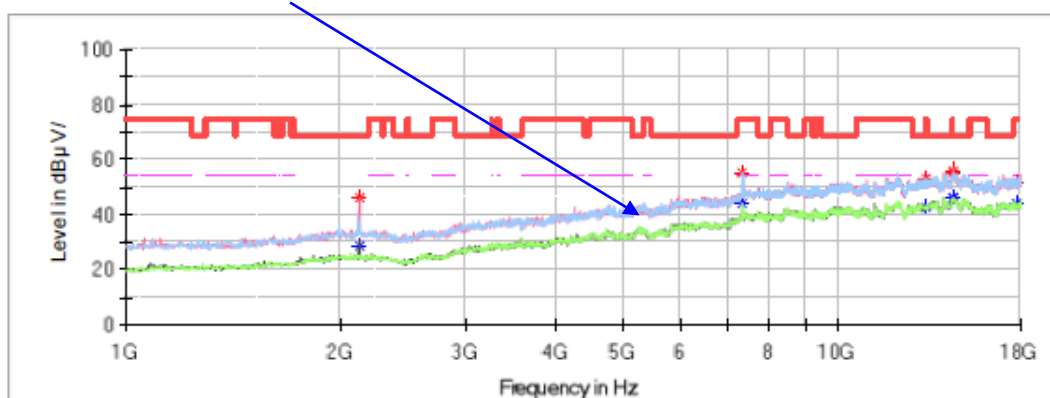
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2122.000000	43.79	---	68.20	24.41	V	-9.9
11217.000000	---	42.78	54.00	11.22	H	7.3
11217.000000	51.95	---	74.00	22.05	H	7.3
12070.400000	---	43.55	54.00	10.45	V	9.0
12070.400000	54.20	---	74.00	19.80	V	9.0
14487.800000	---	46.21	54.00	7.79	V	11.9
14487.800000	53.53	---	74.00	20.47	V	11.9
14535.400000	55.30	---	68.20	12.90	V	11.9
17969.400000	51.86	---	74.00	22.14	H	11.7
17969.400000	---	44.21	54.00	9.79	H	11.7

802.11ac40 Mode:**Low Channel: 5510MHz****Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1℃
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

Fundamental test with Band reject filter

**Critical Freqs**

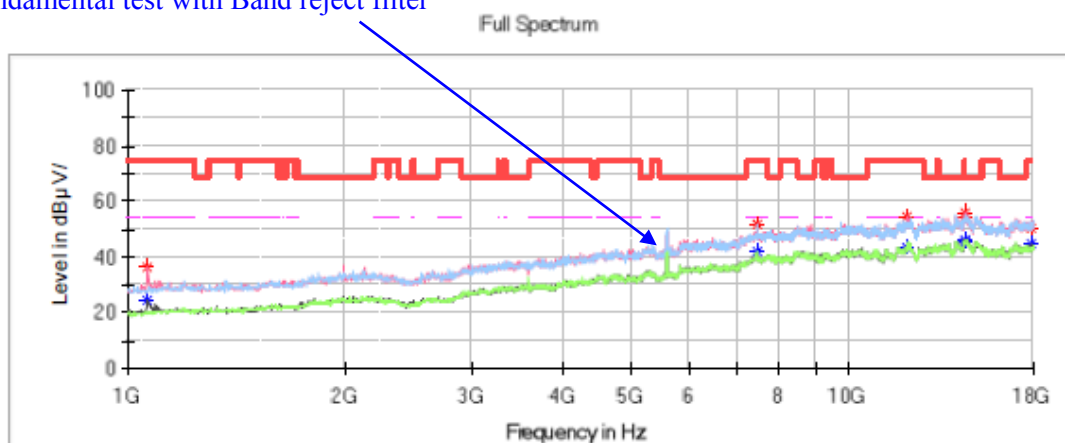
Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	45.89	---	68.20	22.31	V	-9.9
7344.400000	---	43.84	54.00	10.16	H	2.5
7344.400000	54.90	---	74.00	19.10	H	2.5
13318.200000	---	42.45	54.00	11.55	V	9.7
13318.200000	53.27	---	74.00	20.73	V	9.7
14498.000000	54.90	---	74.00	19.10	H	12.0
14498.000000	---	46.26	54.00	7.74	H	12.0
14511.600000	55.87	---	68.20	12.33	V	11.9
17779.000000	51.71	---	74.00	22.29	V	11.2
17779.000000	---	44.02	54.00	9.98	V	11.2

Middle Channel: 5550MHz

Common Information

Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: 5G WIFI 802.11ac40 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: 25.1℃
 Humidity: 52%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/19

Fundamental test with Band reject filter



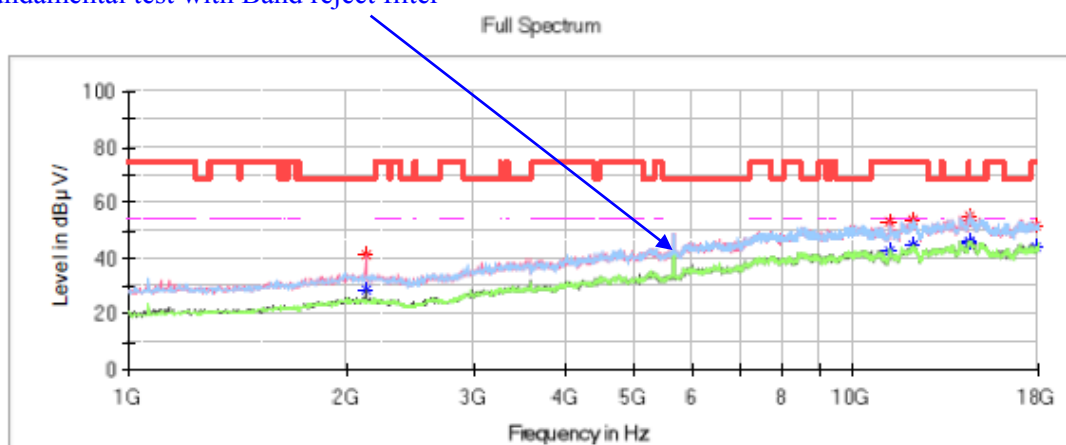
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	24.55	54.00	29.45	V	-15.0
1064.600000	36.42	---	74.00	37.58	V	-15.0
7453.200000	---	41.76	54.00	12.24	H	2.8
7453.200000	51.91	---	74.00	22.09	H	2.8
12060.200000	---	43.55	54.00	10.45	V	9.0
12060.200000	54.31	---	74.00	19.69	V	9.0
14450.400000	56.05	---	68.20	12.15	V	11.9
14491.200000	---	46.34	54.00	7.66	H	12.0
14491.200000	54.85	---	74.00	19.15	H	12.0
17840.200000	50.59	---	74.00	23.41	V	11.3
17840.200000	---	44.42	54.00	9.58	V	11.3

High Channel: 5670MHz**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1℃
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

Fundamental test with Band reject filter

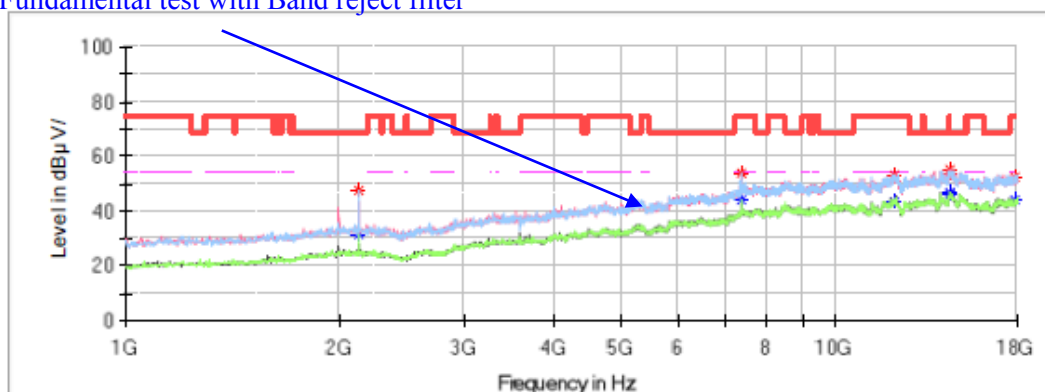
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2125.400000	40.97	---	68.20	27.23	V	-9.9
11203.400000	---	42.42	54.00	11.58	V	7.2
11203.400000	53.18	---	74.00	20.82	V	7.2
12121.400000	---	44.54	54.00	9.46	H	9.0
12121.400000	53.96	---	74.00	20.04	H	9.0
14464.000000	55.52	---	68.20	12.68	V	11.9
14481.000000	---	46.21	54.00	7.79	H	11.9
14481.000000	54.19	---	74.00	19.81	H	11.9
17925.200000	51.72	---	74.00	22.28	V	11.6
17925.200000	---	44.02	54.00	9.98	V	11.6

802.11ac80 Mode:**Low Channel: 5530MHz****Common Information**

Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac80 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: 25.1℃
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

Fundamental test with Band reject filter Full Spectrum

**Critical Freqs**

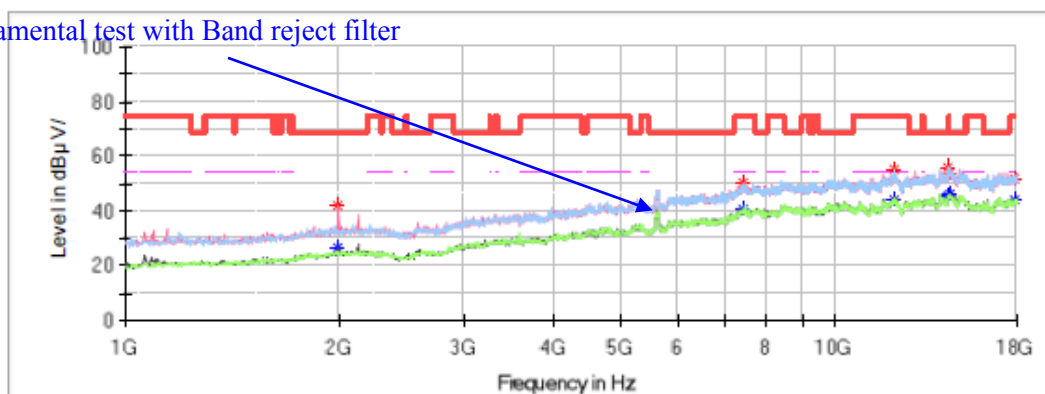
Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	47.35	---	68.20	20.85	H	-9.9
7371.600000	---	44.30	54.00	9.70	H	2.6
7371.600000	53.78	---	74.00	20.22	H	2.6
12118.000000	---	43.70	54.00	10.30	V	9.0
12118.000000	53.27	---	74.00	20.73	V	9.0
14494.600000	53.87	---	74.00	20.13	V	12.0
14494.600000	---	47.13	54.00	6.87	V	12.0
14525.200000	55.27	---	68.20	12.93	V	11.9
17918.400000	52.46	---	74.00	21.54	V	11.5
17918.400000	---	43.98	54.00	10.02	V	11.5

High Channel: 5610MHz**Common Information**

Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: 5G WIFI 802.11ac80 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: 25.1℃
 Humidity: 52%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/19

Full Spectrum

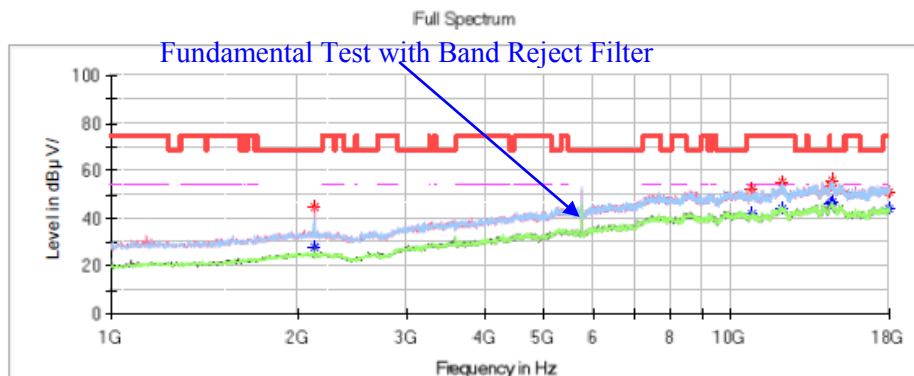
Fundamental test with Band reject filter

**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)
1996.200000	41.83	---	68.20	26.37	V	-10.0
7422.600000	---	40.59	54.00	13.41	V	2.7
7422.600000	50.46	---	74.00	23.54	V	2.7
12131.600000	---	43.77	54.00	10.23	V	9.0
12131.600000	55.00	---	74.00	19.00	V	9.0
14440.200000	56.03	---	68.20	12.17	H	11.9
14491.200000	54.08	---	74.00	19.92	V	12.0
14491.200000	---	46.18	54.00	7.82	V	12.0
17833.400000	51.74	---	74.00	22.26	H	11.3
17833.400000	---	44.10	54.00	9.90	H	11.3

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

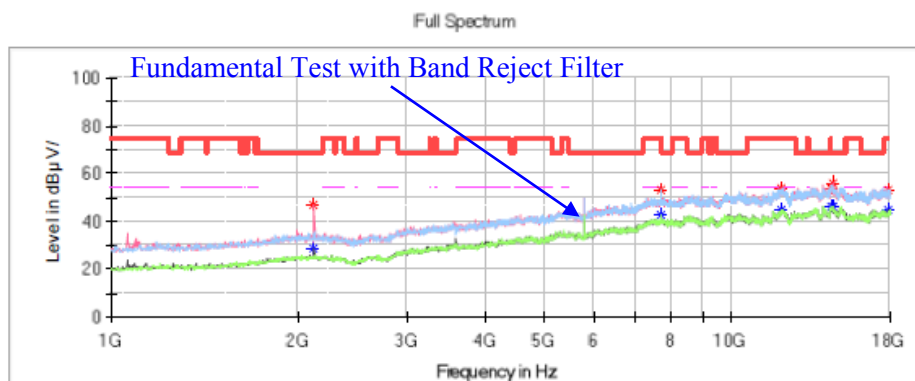
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11a mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.3℃
Humidity: 53%
Atmospheric Pressure: 103.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/20

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	44.53	---	68.20	23.67	V	-9.9
10832.800000	---	42.10	54.00	11.90	V	6.6
10832.800000	52.17	---	74.00	21.83	V	6.6
12087.400000	---	43.84	54.00	10.16	H	9.0
12087.400000	55.15	---	74.00	18.85	H	9.0
14491.200000	---	46.04	54.00	7.96	V	12.0
14491.200000	53.62	---	74.00	20.38	V	12.0
14535.400000	55.74	---	68.20	12.46	V	11.9
17959.200000	51.29	---	74.00	22.71	H	11.7
17959.200000	---	44.22	54.00	9.78	H	11.7

Middle Channel: 5785MHz**Common Information**

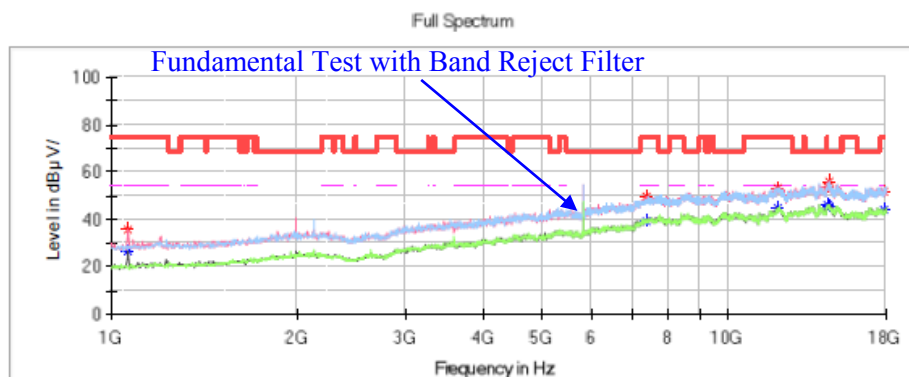
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11a mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.3°C
Humidity: 53%
Atmospheric Pressure: 103.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/20

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2122.000000	47.15	---	68.20	21.05	V	-9.9
7711.600000	---	42.79	54.00	11.21	H	3.1
7711.600000	52.89	---	74.00	21.11	H	3.1
12060.200000	---	45.09	54.00	8.91	H	9.0
12060.200000	53.94	---	74.00	20.06	H	9.0
14491.200000	54.06	---	74.00	19.94	H	12.0
14491.200000	---	45.94	54.00	8.06	H	12.0
14538.800000	55.72	---	68.20	12.48	V	11.8
17918.400000	53.44	---	74.00	20.56	V	11.5
17918.400000	---	44.81	54.00	9.19	V	11.5

High Channel: 5825MHz**Common Information**

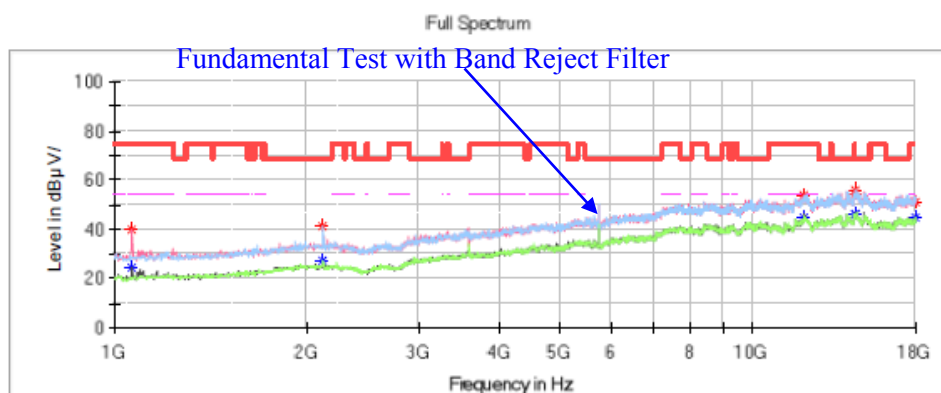
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.3℃
Humidity: 53%
Atmospheric Pressure: 103.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/20

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	26.44	54.00	27.56	V	-15.0
1064.600000	35.86	---	74.00	38.14	V	-15.0
7381.800000	---	39.27	54.00	14.73	V	2.6
7381.800000	49.74	---	74.00	24.26	V	2.6
12063.600000	---	44.95	54.00	9.05	V	9.0
12063.600000	53.22	---	74.00	20.78	V	9.0
14487.800000	54.18	---	74.00	19.82	H	11.9
14487.800000	---	46.16	54.00	7.84	H	11.9
14569.400000	55.77	---	68.20	12.43	H	11.7
17843.600000	52.04	---	74.00	21.96	V	11.3
17843.600000	---	44.24	54.00	9.76	V	11.3

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

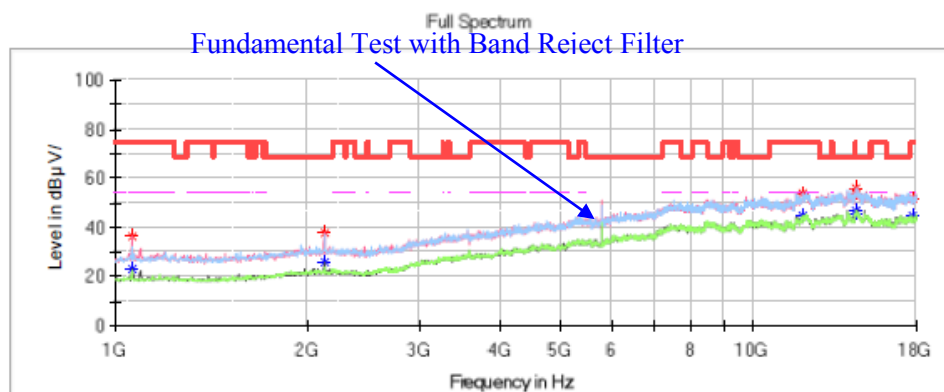
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.3℃
Humidity: 53%
Atmospheric Pressure: 103.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/20

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	24.55	54.00	29.45	V	-15.0
1064.600000	40.12	---	74.00	33.88	V	-15.0
2122.000000	41.57	---	68.20	26.63	H	-9.9
11995.600000	---	44.86	54.00	9.14	H	9.1
11995.600000	53.56	---	74.00	20.44	H	9.1
14447.000000	56.25	---	68.20	11.95	H	11.9
14491.200000	---	46.38	54.00	7.62	V	12.0
14491.200000	54.42	---	74.00	19.58	V	12.0
17972.800000	51.31	---	74.00	22.69	H	11.7
17972.800000	---	44.95	54.00	9.05	H	11.7

Middle Channel: 5785MHz**Common Information**

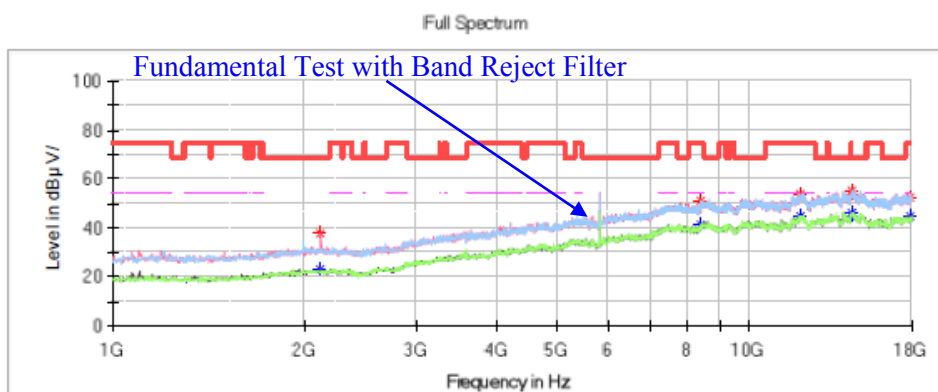
Project No.: RKSA250928001
 EUT Model: R010
 Test Mode: 5G WIFI 802.11ac20 mode Middle Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 22.3°C
 Humidity: 53%
 Atmospheric Pressure: 103.1kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/20

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	22.89	54.00	31.11	V	-15.0
1061.200000	36.54	---	74.00	37.46	V	-15.0
2125.400000	37.64	---	68.20	30.56	V	-9.9
11985.400000	---	44.42	54.00	9.58	H	9.0
11985.400000	53.50	---	74.00	20.50	H	9.0
14491.200000	53.57	---	74.00	20.43	H	12.0
14491.200000	---	46.51	54.00	7.49	H	12.0
14511.600000	56.04	---	68.20	12.16	H	11.9
17819.800000	---	44.69	54.00	9.31	V	11.3
17819.800000	51.47	---	74.00	22.53	V	11.3

High Channel: 5825MHz**Common Information**

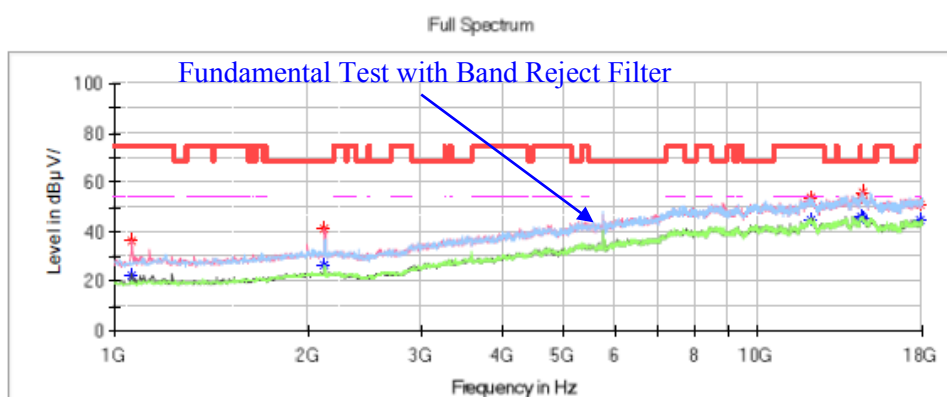
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.3℃
Humidity: 53%
Atmospheric Pressure: 103.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/20

**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)
2122.000000	37.92	---	68.20	30.28	V	-9.9
8405.200000	---	40.92	54.00	13.08	H	4.4
8405.200000	51.07	---	74.00	22.93	H	4.4
12060.200000	---	44.85	54.00	9.15	V	9.0
12060.200000	54.08	---	74.00	19.92	V	9.0
14491.200000	---	46.46	54.00	7.54	V	12.0
14491.200000	53.75	---	74.00	20.25	V	12.0
14515.000000	55.56	---	68.20	12.64	V	11.9
17887.800000	52.18	---	74.00	21.82	H	11.5
17887.800000	---	44.54	54.00	9.46	H	11.5

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

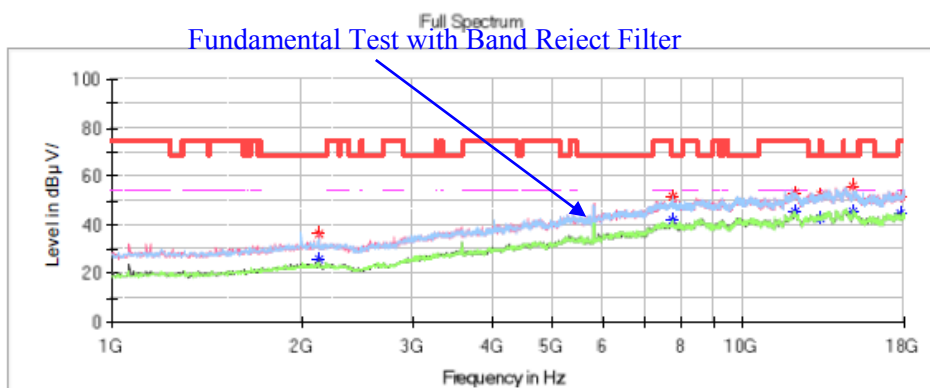
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac40 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.3°C
Humidity: 53%
Atmospheric Pressure: 103.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/20

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	22.66	54.00	31.34	V	-15.0
1064.600000	36.22	---	74.00	37.78	V	-15.0
2122.000000	40.97	---	68.20	27.23	H	-9.9
12090.800000	---	44.81	54.00	9.19	H	9.0
12090.800000	53.53	---	74.00	20.47	H	9.0
14494.600000	53.95	---	74.00	20.05	H	12.0
14494.600000	---	46.05	54.00	7.95	H	12.0
14545.600000	56.22	---	68.20	11.98	V	11.8
17918.400000	51.27	---	74.00	22.73	H	11.5
17918.400000	---	44.50	54.00	9.50	H	11.5

Channel: 5795MHz**Common Information**

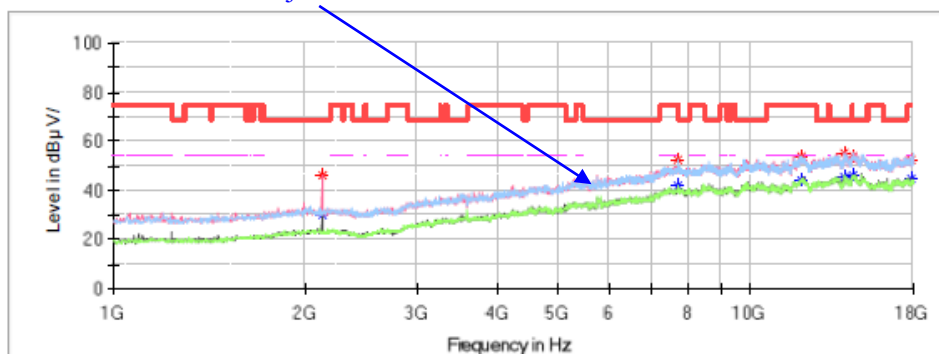
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac40 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.3℃
Humidity: 53%
Atmospheric Pressure: 103.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/20

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	36.34	---	68.20	31.86	V	-9.9
7725.200000	---	42.23	54.00	11.77	H	3.1
7725.200000	51.41	---	74.00	22.59	H	3.1
12070.400000	53.35	---	74.00	20.65	H	9.0
12070.400000	---	45.77	54.00	8.23	H	9.0
13260.400000	---	42.81	54.00	11.19	V	9.6
13260.400000	52.53	---	74.00	21.47	V	9.6
14960.400000	55.73	---	68.20	12.47	V	10.4
17765.400000	51.57	---	74.00	22.43	V	11.1
17765.400000	---	44.51	54.00	9.49	V	11.1

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

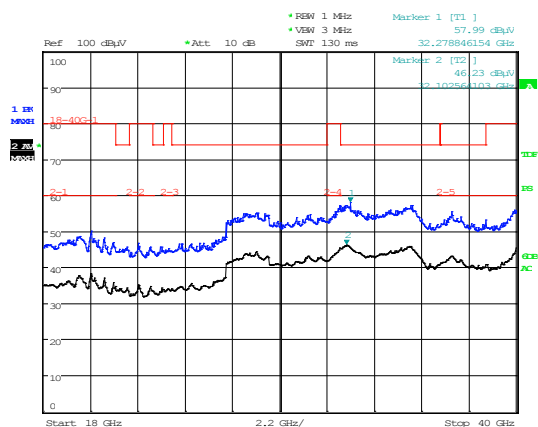
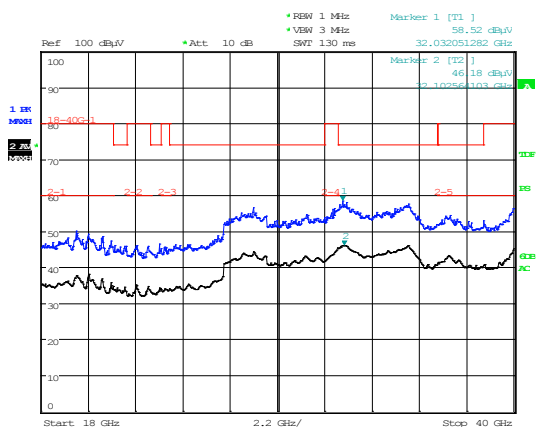
Project No.: RKSA250928001
EUT Model: R010
Test Mode: 5G WIFI 802.11ac80
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.3℃
Humidity: 53%
Atmospheric Pressure: 103.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/20

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)
2125.400000	45.94	---	68.20	22.26	V	-9.9
7698.000000	---	42.14	54.00	11.86	H	3.1
7698.000000	52.42	---	74.00	21.58	H	3.1
12029.600000	---	44.32	54.00	9.68	V	9.1
12029.600000	53.72	---	74.00	20.28	V	9.1
14039.000000	55.57	---	68.20	12.63	H	11.2
14484.400000	---	46.27	54.00	7.73	V	11.9
14484.400000	53.99	---	74.00	20.01	V	11.9
17921.800000	52.78	---	74.00	21.22	H	11.6
17921.800000	---	44.50	54.00	9.50	H	11.6

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 (5825MHz)** was recorded

Horizontal**Vertical**

Project No :RKSA250928001 Tester :Rugh Wu
Date: 18.OCT.2025 16:44:15

Project No :RKSA250928001 Tester :Rugh Wu
Date: 18.OCT.2025 17:17:40

Note: The test distance is 1.5m.

Extrapolation factor of 20dB/decade from 3m to 1.5m

Distance extrapolation factor = $20 \log(\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB

Limit = Specific limits(dBμV/m) + distance extrapolation factor (6 dB)

Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
32.03	58.52	---	74.2	15.68	V	23.17
32.28	57.99	---	74.2	16.21	H	23.42

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

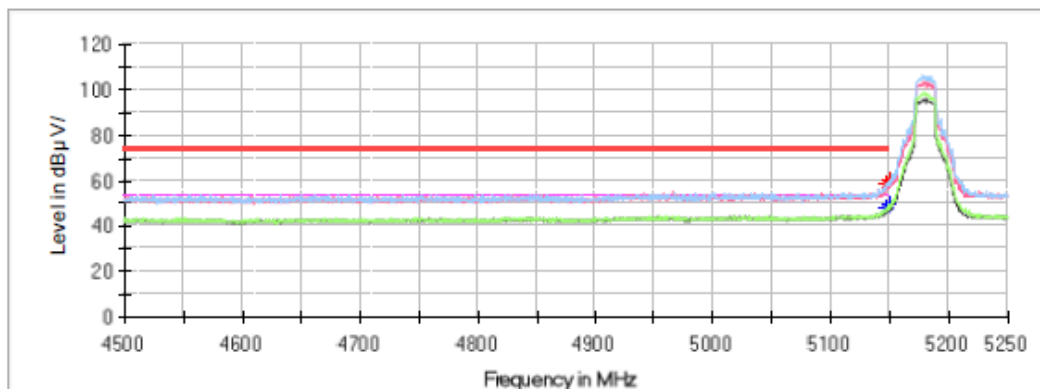
Note:

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.:	RKSA250928001
EUT Model:	R010
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:	25.7°C
Humidity:	52%
Atmospheric Pressure:	102.1kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/17

Full Spectrum

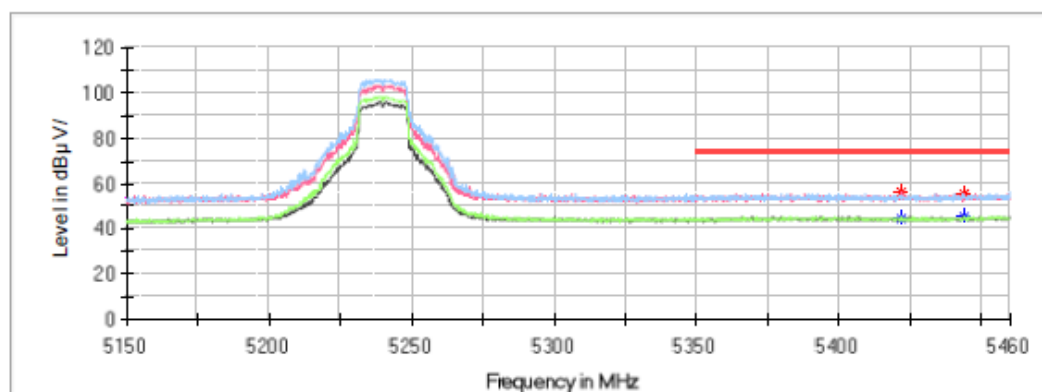
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
5146.800000	---	47.92	54.00	6.08	H	7.5
5146.800000	58.66	---	74.00	15.34	H	7.5
5149.500000	60.24	---	74.00	13.76	H	7.5
5149.500000	---	49.29	54.00	4.71	H	7.5

Common Information

Project No.: RKSA250928001
EUT Model: R010
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: 25.7°C
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

Full Spectrum



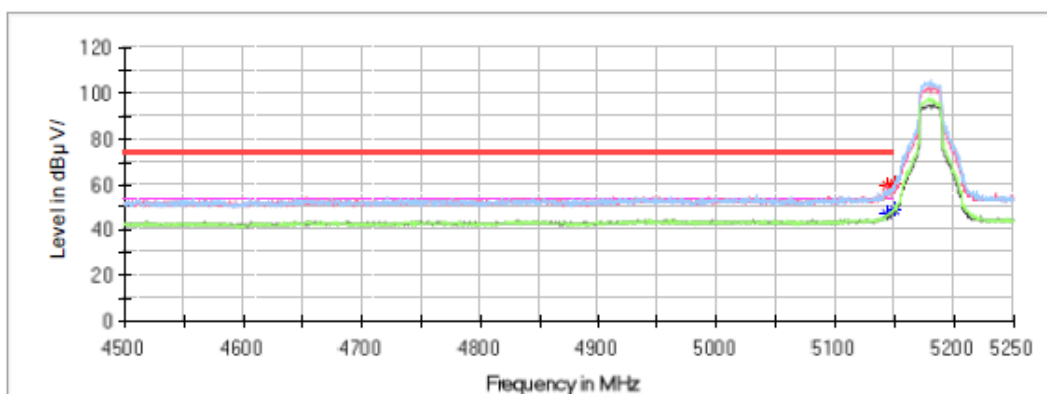
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5422.180000	56.21	---	74.00	17.79	V	7.7
5422.180000	---	44.69	54.00	9.31	V	7.7
5443.756000	---	45.07	54.00	8.93	H	7.7
5443.756000	55.64	---	74.00	18.36	H	7.7

802.11ac20 Mode:**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.7°C
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

Full Spectrum

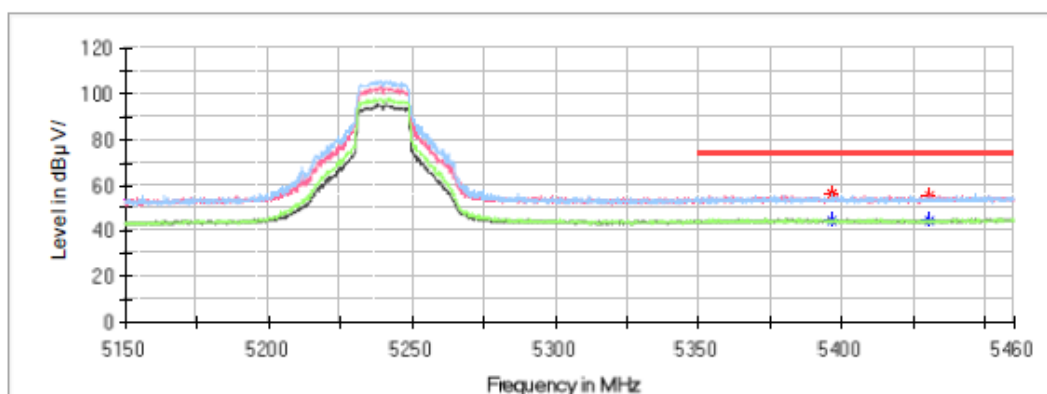
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
5142.900000	---	46.62	54.00	7.38	V	7.5
5142.900000	59.46	---	74.00	14.54	V	7.5
5149.800000	---	49.07	54.00	4.93	H	7.5
5149.800000	60.46	---	74.00	13.54	H	7.5

Common Information

Project No.: RKSA250928001
EUT Model: R010
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: 25.7°C
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

Full Spectrum



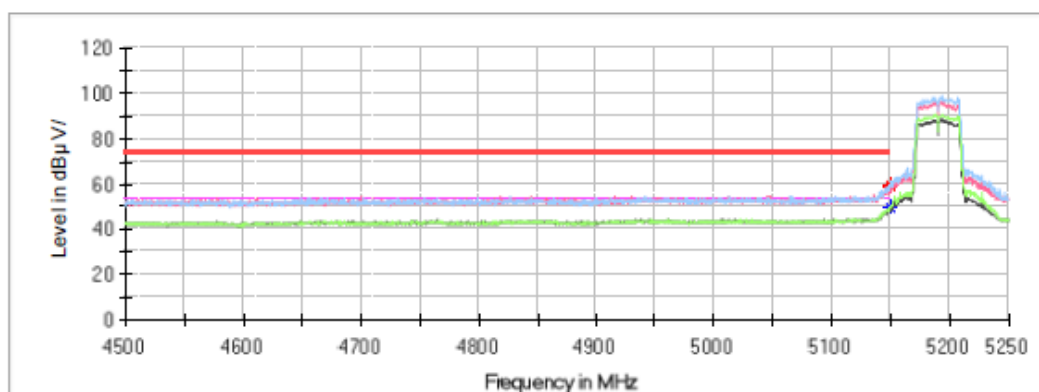
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5396.512000	55.87	---	74.00	18.13	V	7.7
5396.512000	---	44.31	54.00	9.69	V	7.7
5430.860000	---	44.45	54.00	9.55	H	7.7
5430.860000	55.63	---	74.00	18.37	H	7.7

802.11ac40 Mode:**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.7℃
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

Full Spectrum

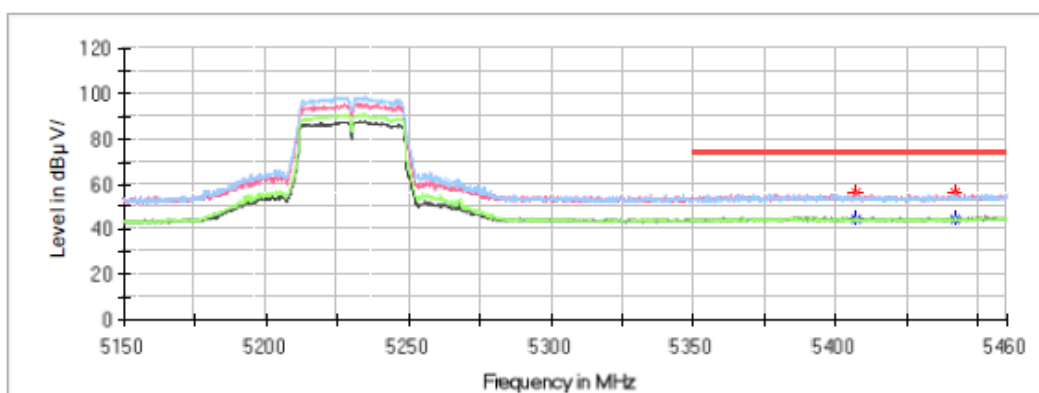
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5149.200000	59.35	---	74.00	14.65	H	7.5
5149.200000	---	49.86	54.00	4.14	H	7.5
5149.800000	58.99	---	74.00	15.01	V	7.5
5149.800000	---	49.89	54.00	4.11	V	7.5

Common Information

Project No.: RKSA250928001
EUT Model: R010
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: 25.7°C
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

Full Spectrum



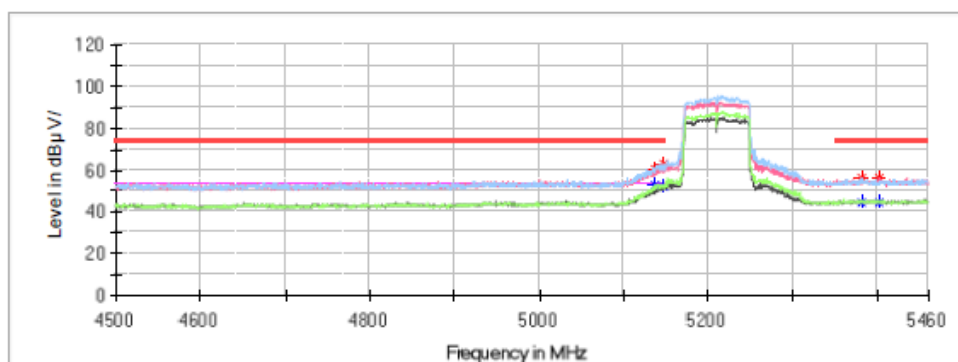
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5407.300000	---	44.10	54.00	9.90	H	7.7
5407.300000	55.89	---	74.00	18.11	H	7.7
5442.268000	---	44.78	54.00	9.22	V	7.7
5442.268000	56.57	---	74.00	17.43	V	7.7

802.11ac80 Mode:**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.7℃
Humidity: 52%
Atmospheric Pressure: 102.1kPa
Test Engineer: Destine Hu
Test Date: 2025/10/17

Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
5137.440000	60.18	---	74.00	13.82	H	7.4
5137.440000	---	53.08	54.00	0.92	H	7.4
5148.576000	62.85	---	74.00	11.15	H	7.5
5148.576000	---	52.41	54.00	1.59	H	7.5
5382.048000	55.88	---	74.00	18.12	V	7.6
5382.048000	---	44.53	54.00	9.47	V	7.6
5401.632000	---	44.88	54.00	9.12	V	7.7
5401.632000	55.81	---	74.00	18.19	V	7.7

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

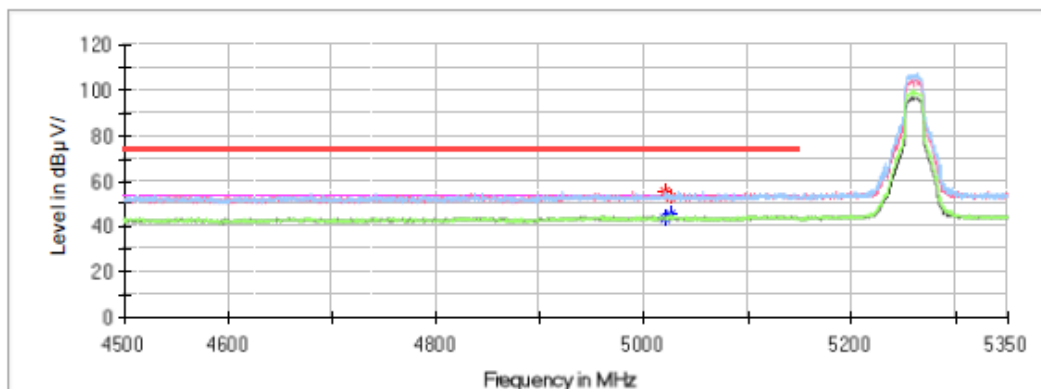
Note:

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.:	RKSA250928001
EUT Model:	R010
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:	25.1°C
Humidity:	52%
Atmospheric Pressure:	102.3kPa
Test Engineer:	Destine Hu
Test Date:	2025/10/19

Full Spectrum

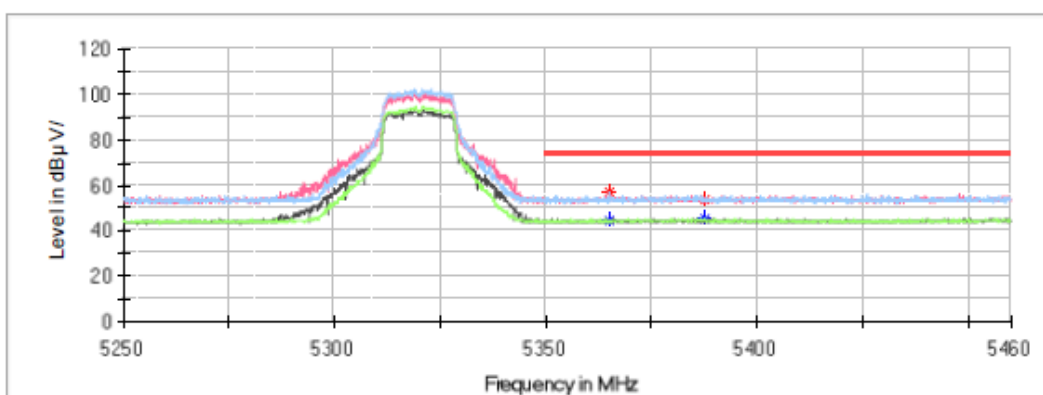
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5020.200000	55.49	---	74.00	18.51	H	7.4
5020.200000	---	43.69	54.00	10.31	H	7.4
5025.640000	52.83	---	74.00	21.17	H	7.4
5025.640000	---	45.08	54.00	8.92	H	7.4

Common Information

Project No.: RKSA250928001
 EUT Model: R010
 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: 25.1°C
 Humidity: 52%
 Atmospheric Pressure: 102.3kPa
 Test Engineer: Destine Hu
 Test Date: 2025/10/19

Full Spectrum



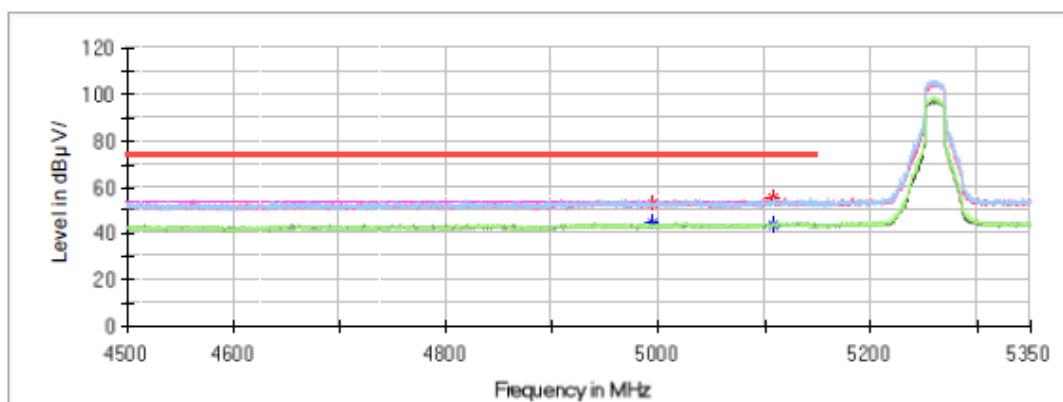
Critical Freqs

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
5364.828000	56.76	---	74.00	17.24	V	7.6
5364.828000	---	44.30	54.00	9.70	V	7.6
5387.424000	53.84	---	74.00	20.16	H	7.6
5387.424000	---	45.65	54.00	8.35	H	7.6

802.11ac20 Mode:**Common Information**

Project No.: RKSA250928001
EUT Model: R010
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: 25.1°C
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

Full Spectrum

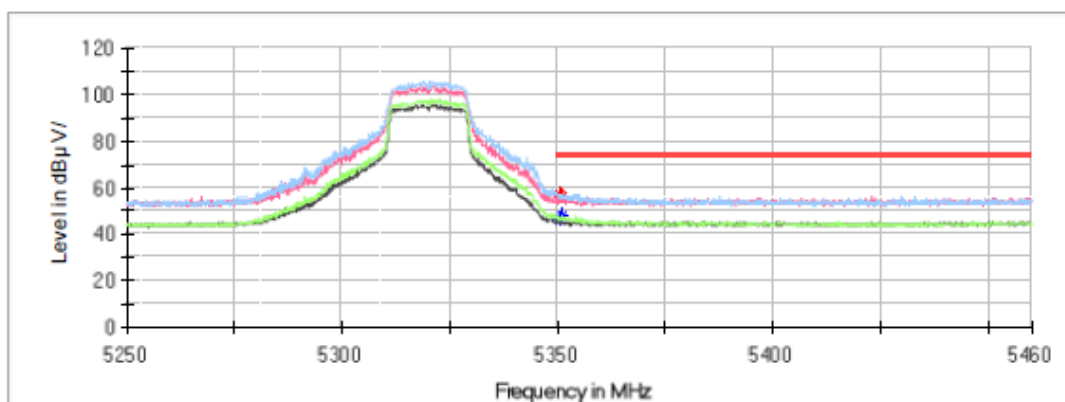
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
4995.380000	---	44.75	54.00	9.25	V	7.3
4995.380000	52.84	---	74.00	21.16	V	7.3
5108.260000	---	44.05	54.00	9.95	H	7.4
5108.260000	55.56	---	74.00	18.44	H	7.4

Common Information

Project No.: RKSA250928001
EUT Model: R010
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: 25.1℃
Humidity: 52%
Atmospheric Pressure: 102.3kPa
Test Engineer: Destine Hu
Test Date: 2025/10/19

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)
5350.632000	57.27	---	74.00	16.73	H	7.6
5350.632000	---	46.55	54.00	7.45	H	7.6
5350.968000	55.95	---	74.00	18.05	H	7.6
5350.968000	---	47.87	54.00	6.13	H	7.6