

FCC PART 15.407

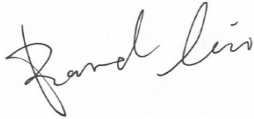
TEST REPORT

For

WISEASY TECHNOLOGY PTE. LTD.

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

FCC ID: 2BFPOP5LPINPAD

Report Type: Original Report	Product Name: Retail Smart PIN Pad
Report Number:	RKSA250411002-00C
Report Date:	2025-07-11
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.

TABLE OF CONTENTS

REPORT REVISION HISTORY.....	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
OBJECTIVE	5
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY.....	6
TEST FACILITY	6
SYSTEM TEST CONFIGURATION.....	7
DESCRIPTION OF TEST CONFIGURATION	7
EUT EXERCISE SOFTWARE	8
EQUIPMENT MODIFICATIONS	12
SUPPORT EQUIPMENT LIST AND DETAILS	12
EXTERNAL I/O CABLE.....	12
BLOCK DIAGRAM OF TEST SETUP	12
SUMMARY OF TEST RESULTS.....	14
TEST EQUIPMENT LIST	15
FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE).....	17
FCC §15.203 – ANTENNA REQUIREMENT.....	19
APPLICABLE STANDARD	19
ANTENNA CONNECTOR CONSTRUCTION	19
FCC §15.407 (b) (9) §15.207 (a) – AC POWER LINE CONDUCTED EMISSIONS.....	20
APPLICABLE STANDARD	20
TEST SYSTEM SETUP.....	20
EMI TEST RECEIVER SETUP.....	20
TEST PROCEDURE	21
TEST RESULTS SUMMARY	21
§15.205 & §15.209 & §15.407(B) – UNDESIRABLE EMISSION & RESTRICTED BANDS	22
APPLICABLE STANDARD	22
TEST SYSTEM SETUP	22
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	25
TEST PROCEDURE	25
FCC §15.407(a) & §15.407(e) – EMISSION BANDWIDTH.....	26
APPLICABLE STANDARD	26
TEST PROCEDURE	26
FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER.....	27
APPLICABLE STANDARD	27
TEST PROCEDURE	27
FCC §15.407(a) - POWER SPECTRAL DENSITY	28
APPLICABLE STANDARD	28
TEST PROCEDURE	28
EUT PHOTOGRAPHS.....	29
TEST SETUP PHOTOGRAPHS	30
APPENDIX - TEST DATA.....	31

CONDUCTED EMISSIONS	31
TRANSMITTER UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS.....	34
EMISSION BANDWIDTH.....	70
CONDUCTED TRANSMITTER OUTPUT POWER	84
POWER SPECTRAL DENSITY	85

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA250411002-00C	R1V1	2025-07-11	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	WISEASY TECHNOLOGY PTE. LTD.	
Tested Model:	P5L-PINPad	
Product Name:	Retail Smart PIN Pad	
Power Supply:	DC 5V powered by adapter	
Maximum Average Output Power	5G Wi-Fi B1:	5G Wi-Fi B4:
	802.11a: 16.82 dBm	15.64 dBm
	802.11ac20: 16.80 dBm	15.67 dBm
	802.11ac40: 14.13 dBm	15.35 dBm
	802.11ac80: 12.79 dBm	14.74 dBm
Operating Frequency	B1: 5180-5240 MHz, B4: 5745-5825 MHz	
Channel Number	B1: 7; B4: 8	
Channel Separation	802.11 a/ac20/n20: 20 MHz; 802.11ac40/n40: 40 MHz; 802.11ac80: 80 MHz	
Modulation Type	OFDM	
Antenna Type	FPC Antenna	
★Maximum Antenna Gain	Band 1: 0.96 dBi Band 4: 1.11 dBi	

Adapter Information:

Model: TPA-418G050200UU01

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

Output: 5.0V, 2.0A 10.0W

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

All measurement and test data in this report was gathered from production sample serial number: RKSA250411002-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-04-11.)

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.

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

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°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 **5725~5850 MHz** band,

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

802.11ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

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

EUT Exercise Software

Engineering Mode

The worst case was performed under:

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5150~5250MHz	802.11a	6Mbps	16	16	16
	802.11ac-VHT20	MCS0	16	16	16
	802.11ac-VHT40	MCS0	12	/	12
	802.11ac-VHT80	MCS0	/	11	/

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5725~5850MHz	802.11a	6Mbps	18	18	18
	802.11ac-VHT20	MCS0	18	18	18
	802.11ac-VHT40	MCS0	18	/	18
	802.11ac-VHT80	MCS0	/	18	/

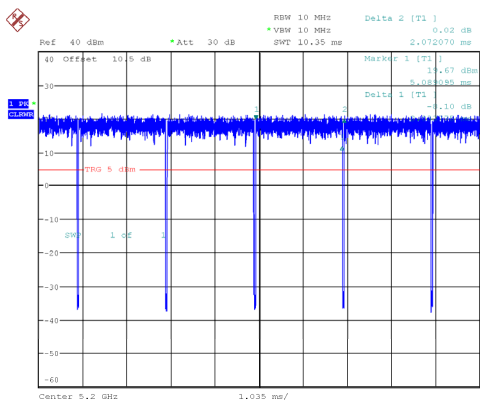
Note: The power level was declared by the applicant.

Duty Cycle:

Environmental Conditions

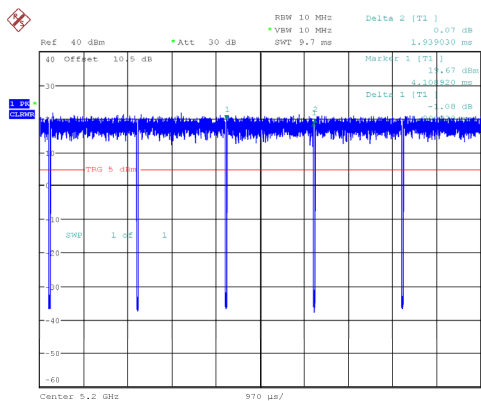
Test Date:	2025-07-10
Temperature:	26 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa
Test Engineer:	Neil Zhou

5150MHz-5250MHz Band:
802.11a mode



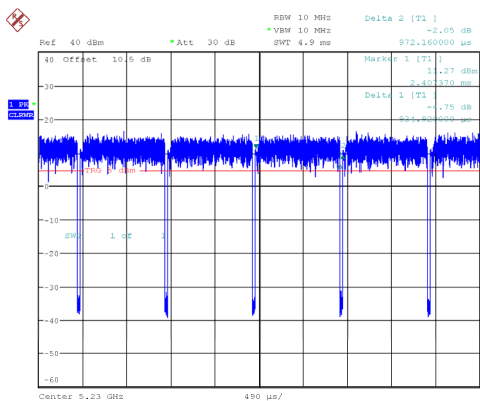
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:33:41

802.11ac20 mode



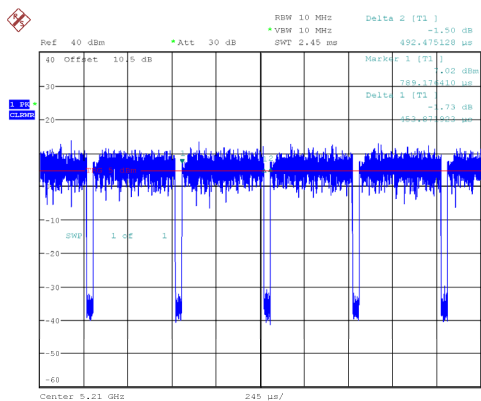
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802.11ac40 mode



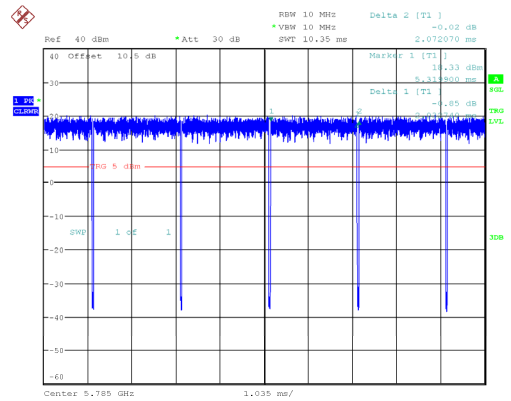
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:05:21

802.11ac80 mode



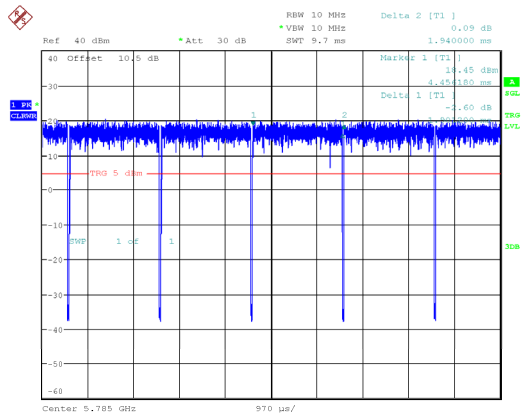
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:11:34

5725MHz-5850MHz Band:
802.11a mode



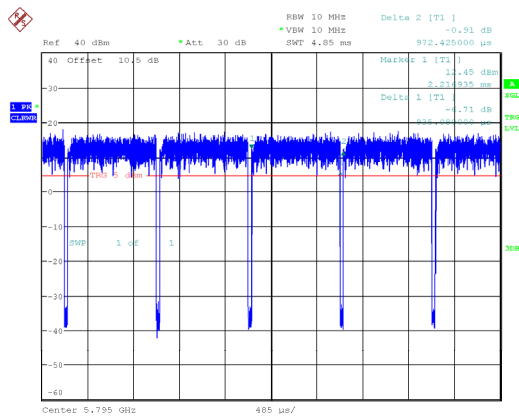
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:21:21

802.11ac20 mode



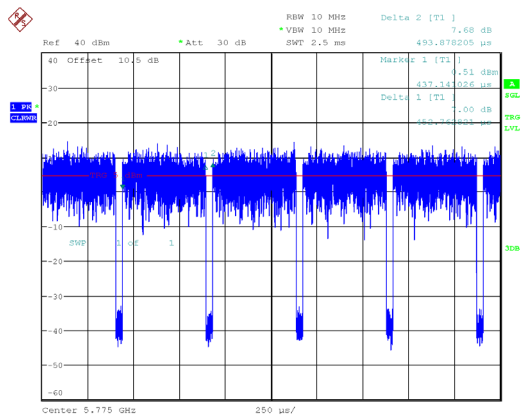
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:33:27

802.11ac40 mode



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:47:04

802.11ac80 mode



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:52:23

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	2.034	2.072	98.17	/
ac20 5200MHz Chain 0	1.900	1.939	97.99	0.09
ac40 5230MHz Chain 0	0.935	0.972	96.19	0.17
ac80 5210MHz Chain 0	0.454	0.492	92.28	0.35

5725MHz-5850MHz:

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
a 5785MHz Chain 0	2.033	2.072	98.12	/
ac20 5785MHz Chain 0	1.901	1.940	97.99	0.09
ac40 5795MHz Chain 0	0.935	0.972	96.19	0.17
ac80 5775MHz Chain 0	0.453	0.494	91.70	0.38

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

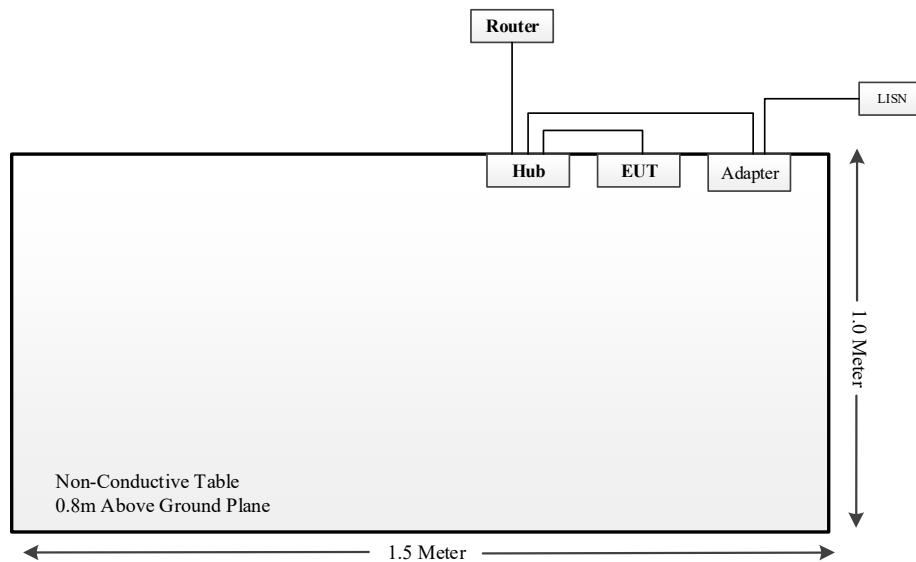
Manufacturer	Description	Model	Serial Number
/	Hub	/	/
TP-LINK	Router	TL-XDR3010	12373X0002080

External I/O Cable

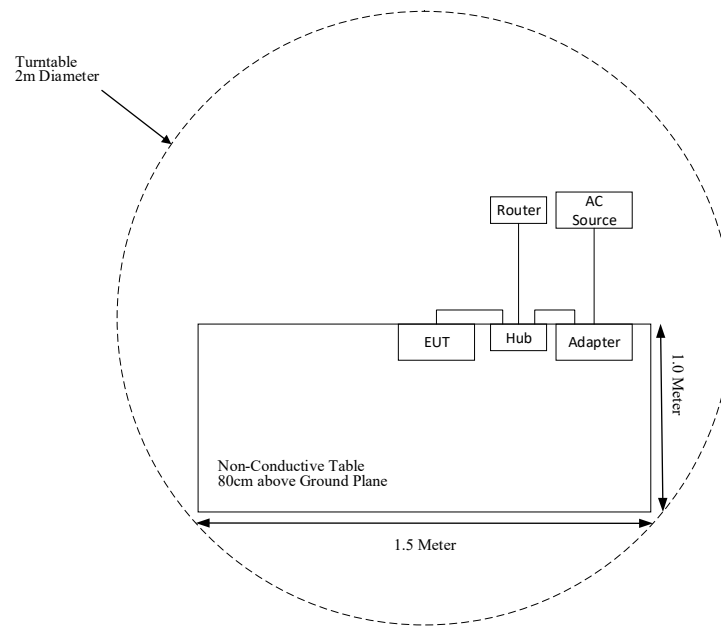
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	Hub	Adapter
Power Cable 2	1.0	Adapter	LISN
Data Cable	0.3	Hub	EUT
RJ45	5.0	Hub	Router

Block Diagram of Test Setup

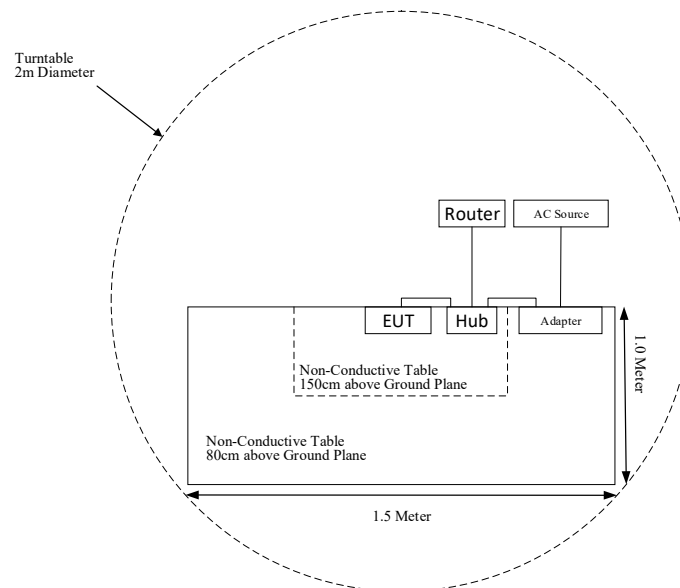
For Conducted Emissions:



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
§1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	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	2024-10-29	2027-10-28
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 §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculation Data:

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Output Power*		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	MPE ratio
		(dBi)	(numeric)	(dBm)	(mW)				
2.4G Wi-Fi	2412-2462	0.69	1.17	19.5	89.13	20	0.0207	1.00	0.0207
BLE	2402-2480	0.69	1.17	7.0	5.01	20	0.0012	1.00	0.0012
BT	2402-2480	0.69	1.17	10	10	20	0.0023	1.00	0.0023
5G Wi-Fi	5150-5250	0.96	1.25	17.0	50.12	20	0.0125	1.00	0.0125
	5725-5850	1.11	1.29	16.0	39.81	20	0.0102	1.00	0.0102
NFC	13.56	0	1.00	-20.5	0.0089	20	0.000002	0.98	0.000002

Note:

1. For the above tune up power were declared by the manufacturer.
2. For NFC, the power of EUT: E Field@3m is 74.35 dBuV/m = -20.85 dBm EIRP. That equal to antenna gain is 0 dBi and used the EIRP value as conducted power.
3. $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$ for $d = 3$ m.
4. NFC and 2.4G Wi-Fi/5G WIFI/BT/BLE can transmit simultaneously.

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

$$= S_{\text{NFC}}/S_{\text{limitNFC}} + S_{2.4\text{G Wi-Fi}}/S_{\text{limit2.4G Wi-Fi}}$$

$$= 0.000002 + 0.0207$$

$$= 0.020702$$

$$< 1.0$$

Result: The device meet FCC MPE at 20 cm distance.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine 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	0.96 dBi	50Ω
	5725~5850 MHz	1.11 dBi	50Ω

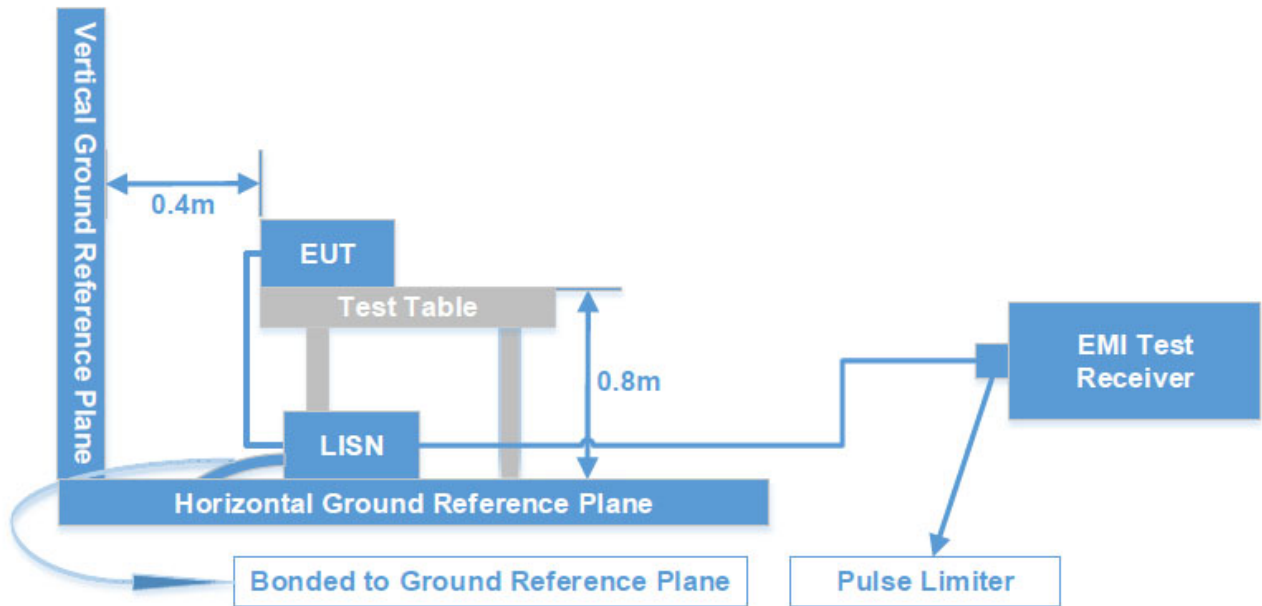
Result: Compliant.

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:

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

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

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

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

Test Results Summary

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

Test Data: See Appendix

§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:

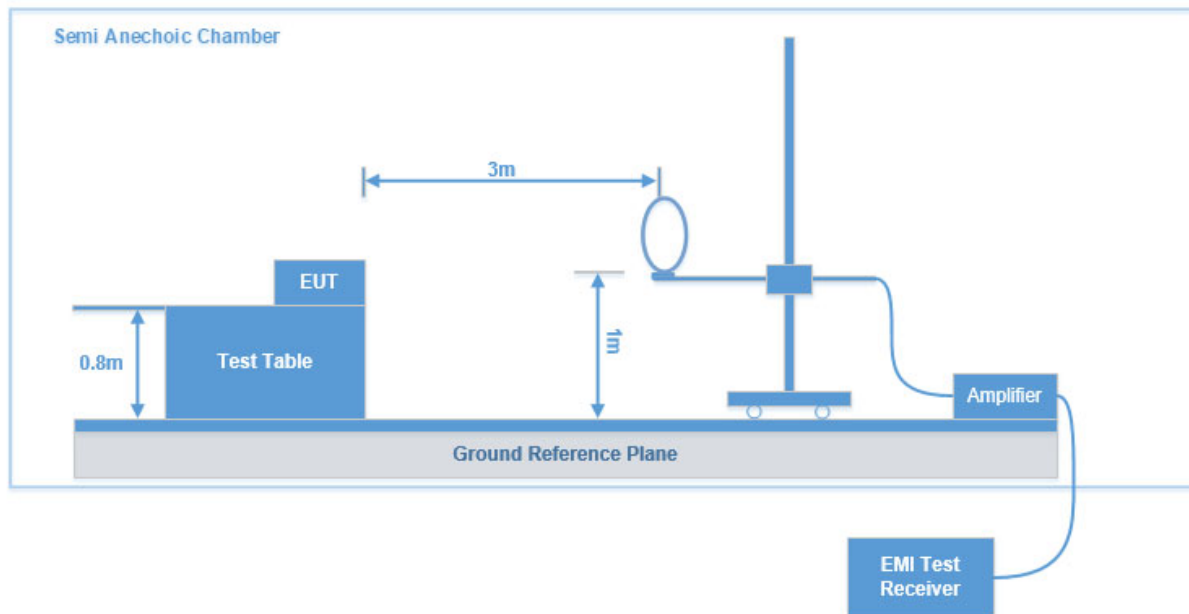
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the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

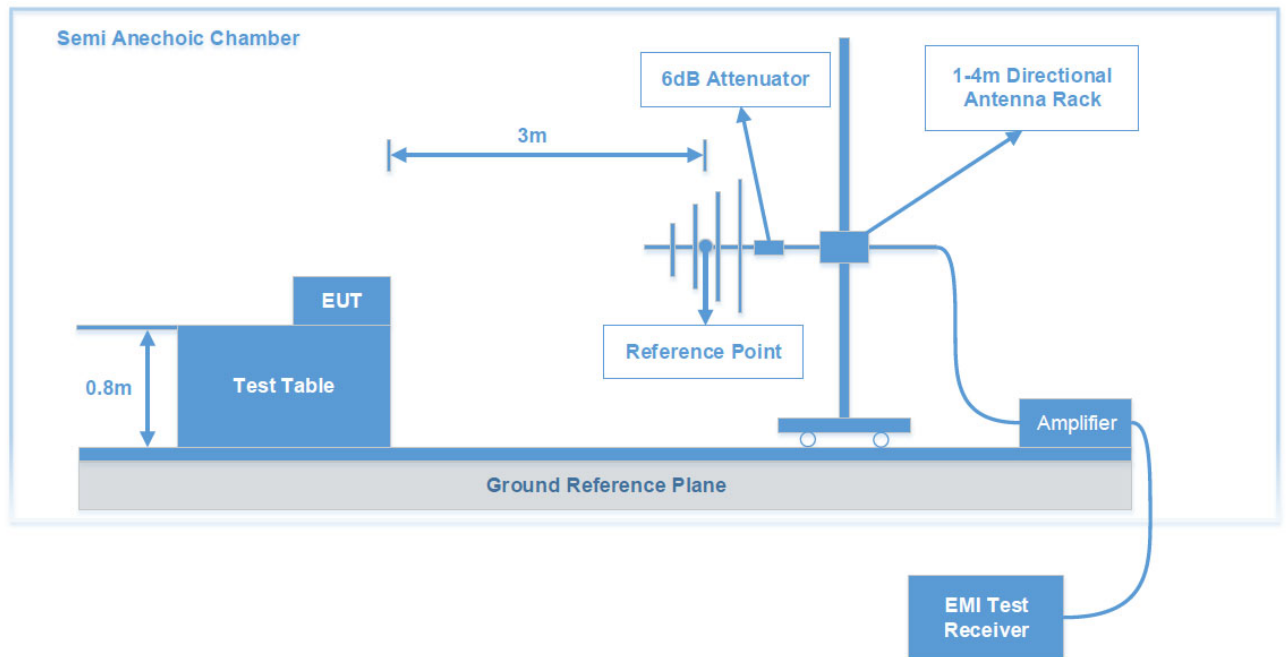
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$, for $d = 3$ meters.

Test System Setup

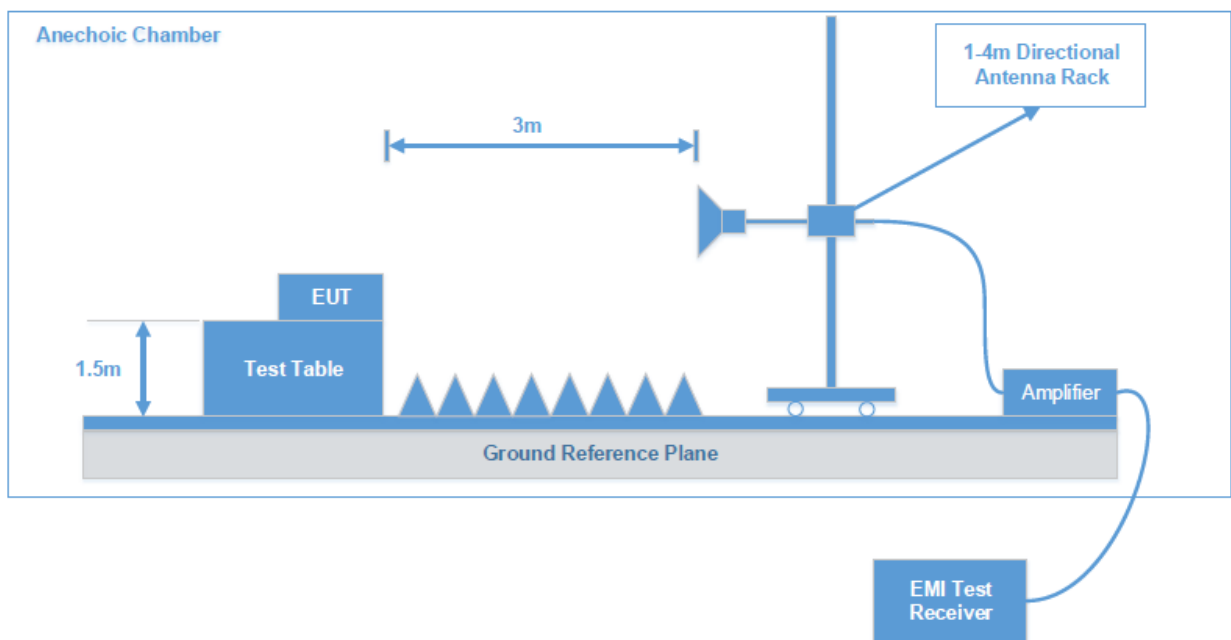
9kHz-30 MHz:



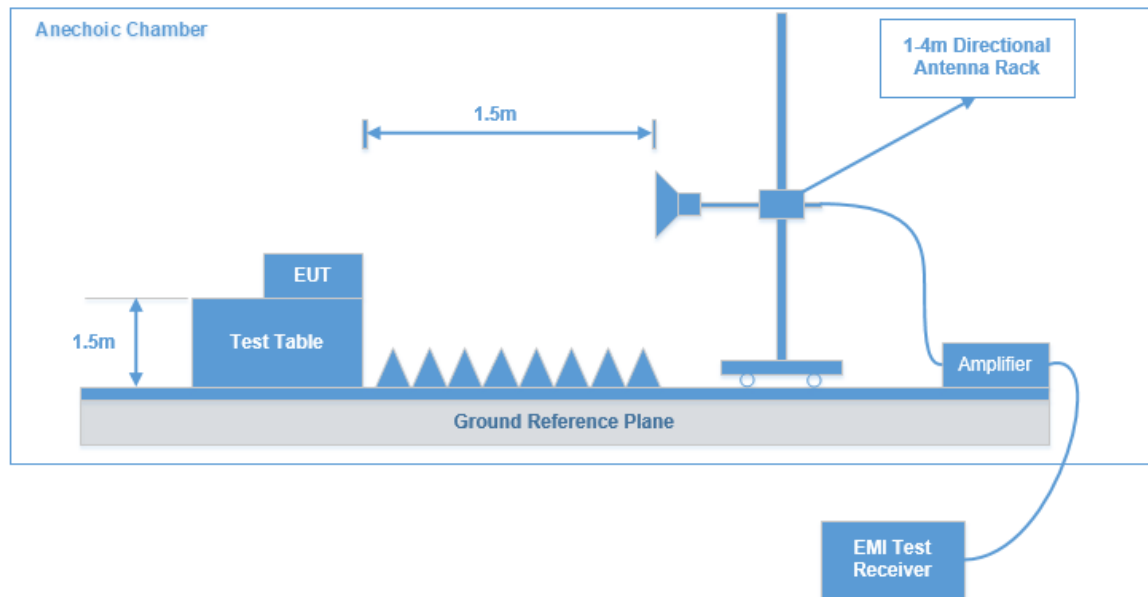
30MHz-1GHz:



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

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:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Corrected factor (dB/m)

Corrected factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

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

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/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

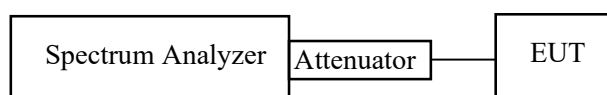
1. Emission Bandwidth (EBW)

- Set RBW = approximately 1% 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 maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

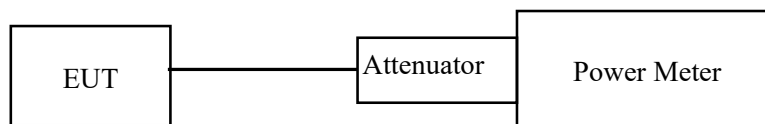
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting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



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 collocated 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.

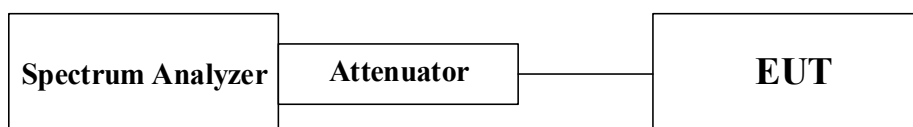
Test Procedure

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

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT D - TEST SETUP PHOTOGRAPHS.

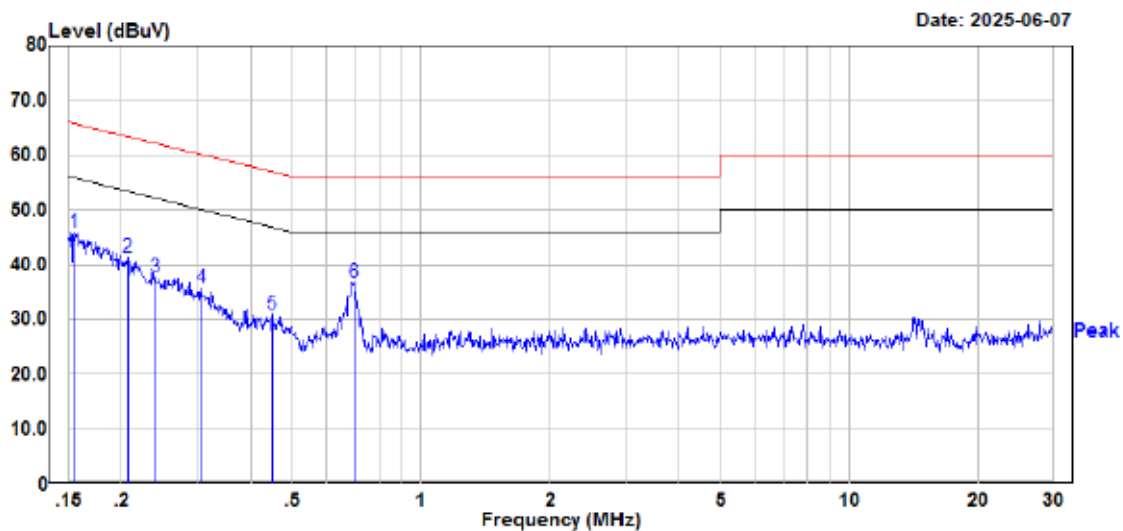
APPENDIX - TEST DATA

CONDUCTED EMISSIONS**Environmental Conditions & Test Information**

Test Date:	2025-06-07
Temperature:	25.1 °C
Relative Humidity:	45 %
ATM Pressure:	100.7 kPa
Test Engineer:	Myles Miao

EUT operation mode: Transmitting in 802.11a mode 5180MHz (maximum output power)

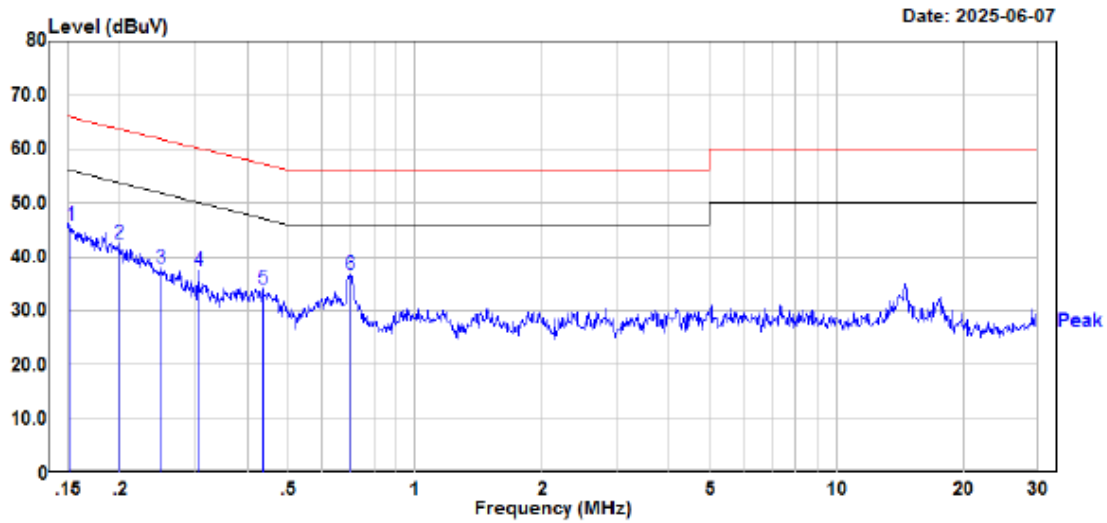
AC 120V/60 Hz, Line



Site : CE
Condition : limit\FCC PART 15.207
Project No. : RKSA250411002
Model : P5L-PINPad
Phase : L
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 25.1℃
Humidity : 45%
Atmospheric pressure: 100.7KPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.155	25.66	20.23	45.89	65.75	-19.86	Peak
2	0.206	21.02	20.21	41.23	63.35	-22.12	Peak
3	0.240	17.62	20.20	37.82	62.11	-24.29	Peak
4	0.306	15.62	20.23	35.85	60.08	-24.23	Peak
5	0.449	10.76	20.25	31.01	56.89	-25.88	Peak
6	0.696	16.38	20.30	36.68	56.00	-19.32	Peak

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA250411002
Model : P5L-PINPad
Phase : N
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 25.1℃
Humidity : 45%
Atmospheric pressure: 100.7KPa
Test Engineer : Myles Miao

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB	dBuV	dBuV
1	0.152	25.61	20.23	45.84
2	0.198	22.22	20.21	42.43
3	0.249	17.80	20.20	38.00
4	0.307	17.21	20.23	37.44
5	0.436	13.90	20.25	34.15
6	0.703	16.55	20.30	36.85

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

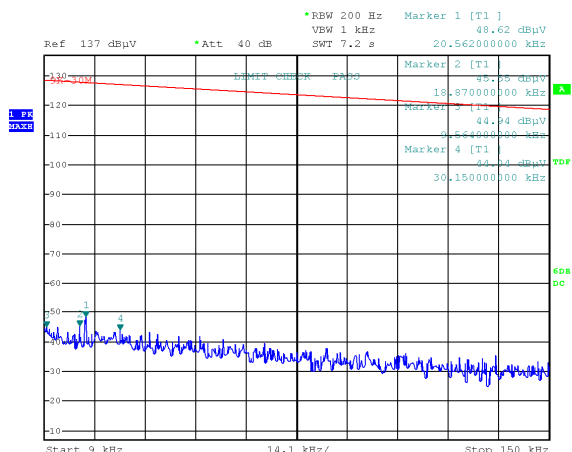
Frequency Range:	9 kHz-30 MHz	30 MHz-1GHz	1 GHz-18 GHz	18 GHz-40 GHz
Test Date:	2025-05-28	2025-04-24	2025-07-09	2025-06-07
Temperature:	23.5 °C	22.3 °C	27.1 °C	24.1 °C
Relative Humidity:	45 %	51 %	50 %	53 %
ATM Pressure:	102.0 kPa	101.1 kPa	100.6 kPa	101.4 kPa
Test Engineer:	Jonathan	Jerry Yan	Destine Hu	Hugh Wu

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

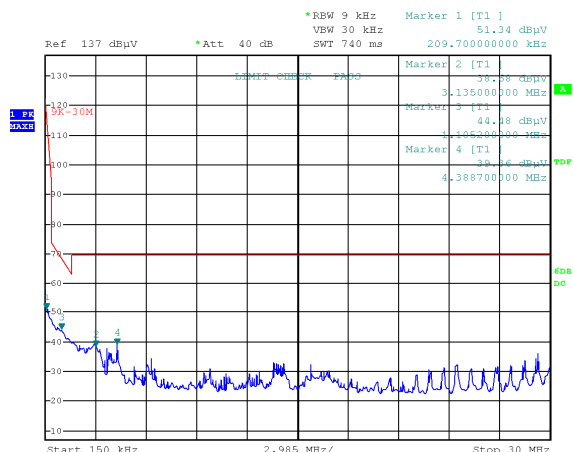
9 kHz-30 MHz: Transmitting in 802.11a mode 5180MHz (maximum output power)

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No.RKSA250411002
Date: 28.MAY.2025 17:17:10

Tester:Jonathan

Project No.RKSA250411002
Date: 28.MAY.2025 17:20:22

Tester:Jonathan

9kHz-150kHz

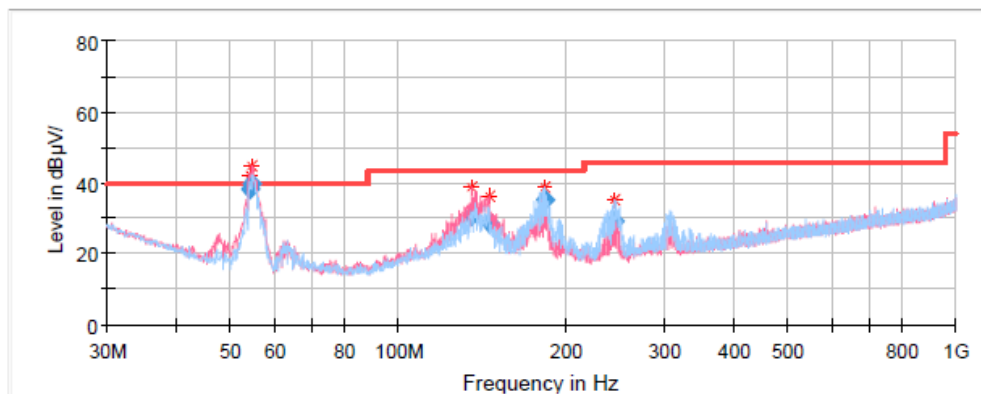
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.009564	44.94	PK	-0.42	127.99	83.05
0.018870	45.55	PK	-0.55	122.09	76.54
0.020562	48.62	PK	-0.56	121.34	72.72
0.030150	44.04	PK	-0.63	118.02	73.98

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.2097	51.34	PK	-13.87	101.17	49.83
1.1052	44.48	PK	-27.96	66.74	22.26
3.1350	38.68	PK	-31.48	69.54	30.86
4.3887	39.36	PK	-31.97	69.54	30.18

30MHz-1GHz: Transmitting in 802.11a mode 5180MHz (maximum output power)**Common Information**

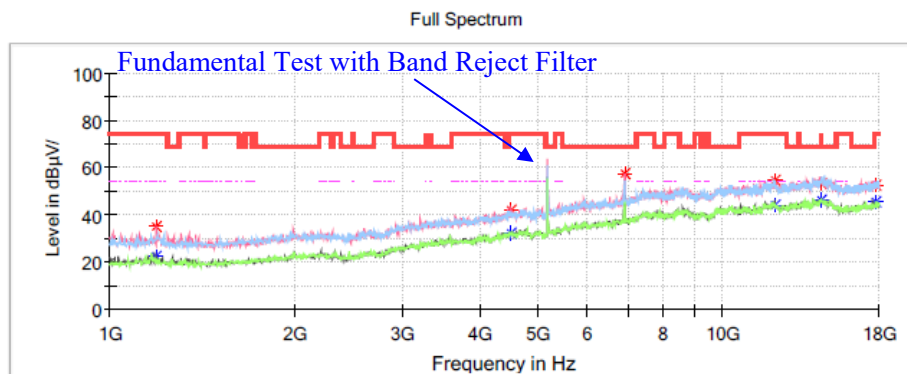
Project No: RKSA250411002
EUT Model: P5L PINPad
Test Mode: Transmitting in 802.11a mode 5180 channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 22.3°C
Humidity: 51%
Barometric Pressure: 101.1kPa
Test Engineer: Jerry Yan
Test Date: 2025/4/24

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
53.992850	38.19	40.00	1.81	V	-17.0
54.730250	39.97	40.00	0.03	V	-17.0
135.681050	30.56	43.50	12.94	V	-11.1
145.796500	28.68	43.50	14.82	V	-11.4
183.016400	35.39	43.50	8.11	H	-12.8
244.370000	29.23	46.00	16.77	H	-12.2

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

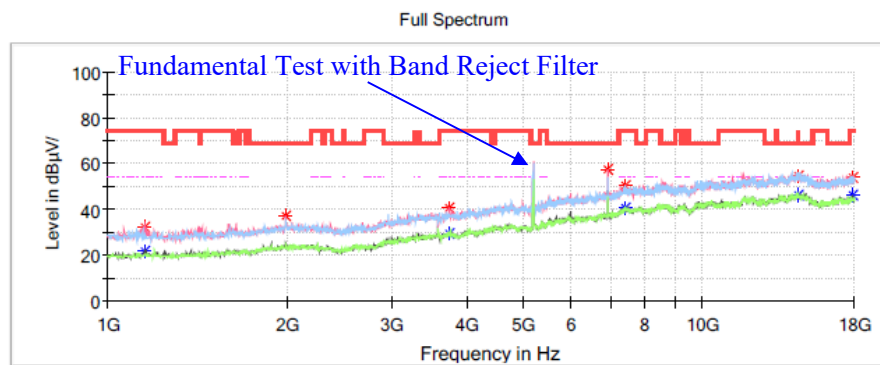
Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11a mode 5180 channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	27.1°C
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1190.400000	34.72	---	74.00	39.28	V	-14.5
1190.400000	---	22.07	54.00	31.93	V	-14.5
4515.600000	41.98	---	74.00	32.02	V	-4.2
4515.600000	---	32.32	54.00	21.68	V	-4.2
6905.800000	57.50	---	68.20	10.70	V	1.1
12172.400000	---	43.76	54.00	10.24	V	9.0
12172.400000	54.71	---	74.00	19.29	V	9.0
14498.000000	---	46.50	54.00	7.50	H	12.0
14498.000000	53.46	---	74.00	20.54	H	12.0
17819.800000	52.67	---	74.00	21.33	V	11.3
17819.800000	---	45.42	54.00	8.58	V	11.3

Middle Channel: 5200MHz**Common Information**

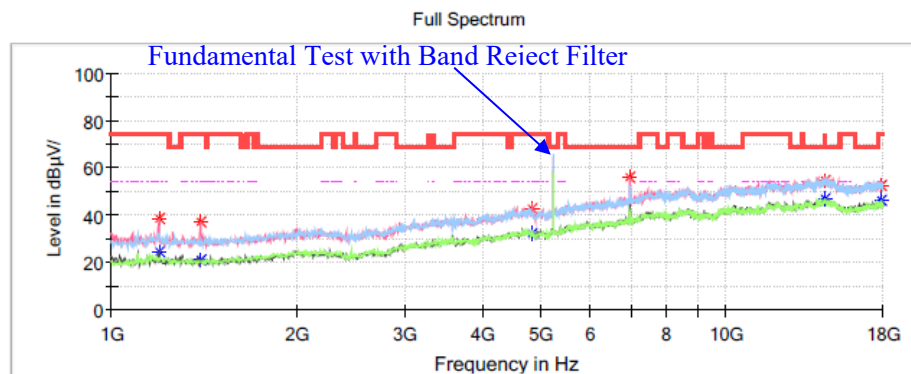
Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11a mode 5200 channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 27.1°C
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

**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)
1153.000000	32.44	---	74.00	41.56	V	-14.7
1153.000000	---	21.79	54.00	32.21	V	-14.7
1989.400000	36.81	---	68.20	31.39	V	-10.1
3757.400000	---	29.54	54.00	24.46	V	-5.6
3757.400000	40.26	---	74.00	33.74	V	-5.6
6933.000000	57.30	---	68.20	10.90	V	1.2
7429.400000	---	40.27	54.00	13.73	H	2.8
7429.400000	50.62	---	74.00	23.38	H	2.8
14491.200000	---	46.09	54.00	7.91	V	12.0
14491.200000	54.71	---	74.00	19.29	V	12.0
17884.400000	54.03	---	74.00	19.97	V	11.5
17884.400000	---	45.91	54.00	8.09	V	11.5

High Channel: 5240MHz**Common Information**

Project No.: RKSA250411002
 EUT Model: P5L-PINPad
 Test Mode: Transmitting in 802.11a mode 5240 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: 27.1°C
 Humidity: 50%
 Atmospheric Pressure: 100.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/9

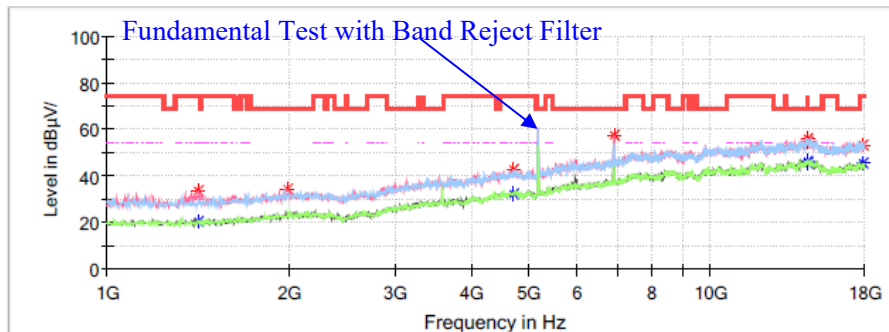
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1193.800000	38.16	---	74.00	35.84	V	-14.5
1193.800000	---	24.38	54.00	29.62	V	-14.5
1394.400000	37.20	---	74.00	36.80	V	-13.8
1394.400000	---	20.93	54.00	33.07	V	-13.8
4818.200000	---	31.89	54.00	22.11	V	-3.4
4818.200000	42.61	---	74.00	31.39	V	-3.4
6987.400000	56.05	---	68.20	12.15	V	1.4
14494.600000	---	46.68	54.00	7.32	V	12.0
14494.600000	54.88	---	74.00	19.12	V	12.0
17887.800000	52.52	---	74.00	21.48	H	11.5
17887.800000	---	46.12	54.00	7.88	H	11.5

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

Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11ac20 mode 5180 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: 27.1°C
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

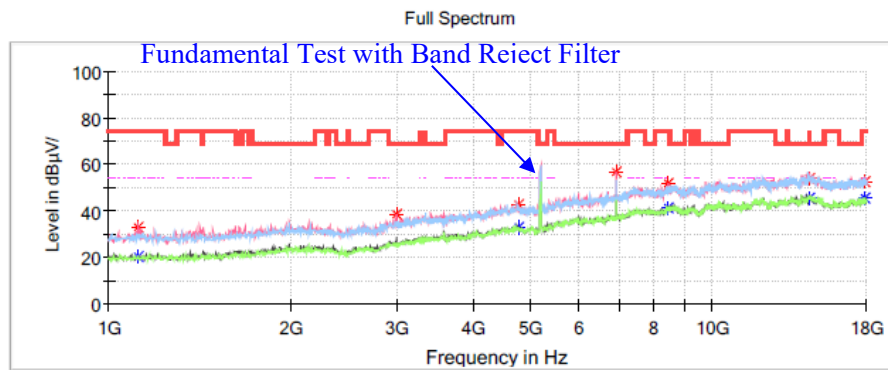
Full Spectrum

**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)
1418.200000	---	20.28	54.00	33.72	V	-13.7
1418.200000	33.47	---	74.00	40.53	V	-13.7
1996.200000	34.54	---	68.20	33.66	V	-10.0
4712.800000	---	32.09	54.00	21.91	V	-3.6
4712.800000	42.51	---	74.00	31.49	V	-3.6
6905.800000	57.36	---	68.20	10.84	V	1.1
14470.800000	55.87	---	74.00	18.13	V	11.9
14470.800000	---	45.74	54.00	8.26	V	11.9
14498.000000	54.66	---	74.00	19.34	H	12.0
14498.000000	---	46.27	54.00	7.73	H	12.0
17915.000000	53.42	---	74.00	20.58	V	11.5
17915.000000	---	45.12	54.00	8.88	V	11.5

Middle Channel: 5200MHz**Common Information**

Project No.: RKSA250411002
 EUT Model: P5L-PINPad
 Test Mode: Transmitting in 802.11ac20 mode 5200 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: 27.1°C
 Humidity: 50%
 Atmospheric Pressure: 100.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/9

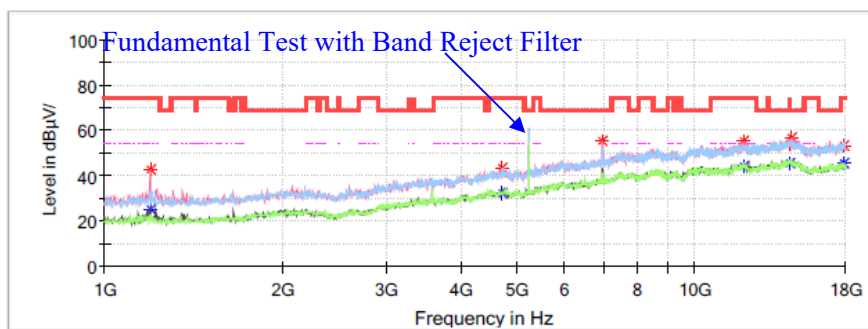
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1119.000000	33.22	---	74.00	40.78	V	-14.8
1119.000000	---	20.53	54.00	33.47	V	-14.8
2992.400000	38.32	---	68.20	29.88	V	-8.1
4780.800000	42.67	---	74.00	31.33	V	-3.5
4780.800000	---	32.69	54.00	21.31	V	-3.5
6933.000000	56.85	---	68.20	11.35	V	1.2
8429.000000	---	41.02	54.00	12.98	V	4.5
8429.000000	51.46	---	74.00	22.54	V	4.5
14498.000000	---	45.47	54.00	8.53	H	12.0
14498.000000	54.03	---	74.00	19.97	H	12.0
17840.200000	---	45.17	54.00	8.83	H	11.3
17840.200000	52.15	---	74.00	21.85	H	11.3

High Channel: 5240MHz**Common Information**

Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac20 mode 5240 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:	27.1°C
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

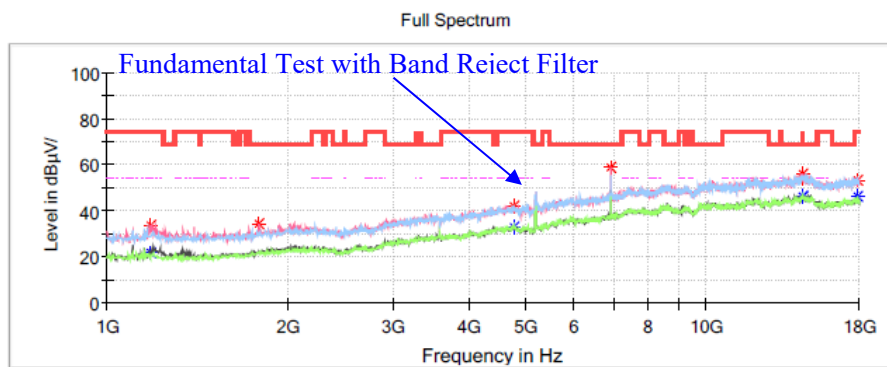
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1193.800000	42.70	---	74.00	31.30	V	-14.5
1193.800000	---	24.93	54.00	29.07	V	-14.5
4723.000000	43.12	---	74.00	30.88	V	-3.6
4723.000000	---	31.96	54.00	22.04	V	-3.6
6984.000000	55.32	---	68.20	12.88	V	1.4
12090.800000	---	44.38	54.00	9.62	V	9.0
12090.800000	55.34	---	74.00	18.66	V	9.0
14498.000000	53.68	---	74.00	20.32	H	12.0
14498.000000	---	45.60	54.00	8.40	H	12.0
14542.200000	56.44	---	68.20	11.76	H	11.8
17915.000000	52.85	---	74.00	21.15	H	11.5
17915.000000	---	45.70	54.00	8.30	H	11.5

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

Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac40 mode 5190 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:	27.1°C
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

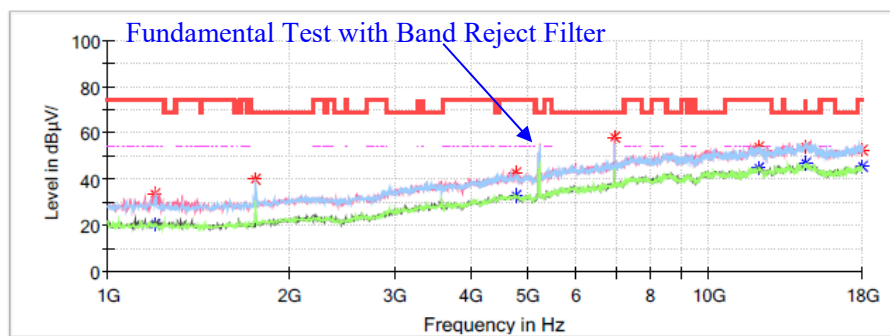
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1180.200000	33.69	---	74.00	40.31	V	-14.6
1180.200000	---	21.53	54.00	32.47	V	-14.6
1795.600000	34.26	---	68.20	33.94	V	-11.4
4767.200000	---	33.09	54.00	20.91	V	-3.5
4767.200000	42.19	---	74.00	31.81	V	-3.5
6919.400000	58.75	---	68.20	9.45	V	1.1
14474.200000	---	46.15	54.00	7.85	V	11.9
14474.200000	55.90	---	74.00	18.10	V	11.9
14491.200000	---	45.81	54.00	8.19	V	12.0
14491.200000	53.72	---	74.00	20.28	V	12.0
17925.200000	---	45.96	54.00	8.04	H	11.6
17925.200000	53.28	---	74.00	20.72	H	11.6

Channel: 5230MHz**Common Information**

Project No.: RKSA250411002
 EUT Model: P5L-PINPad
 Test Mode: Transmitting in 802.11ac40 mode 5230 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: 27.1°C
 Humidity: 50%
 Atmospheric Pressure: 100.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/9

Full Spectrum

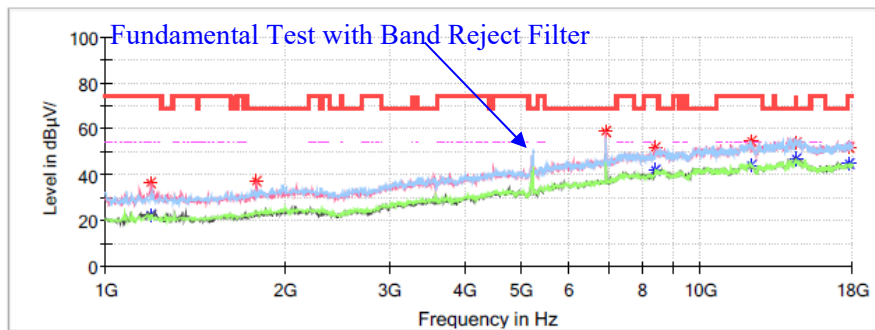
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1193.800000	---	20.53	54.00	33.47	V	-14.5
1193.800000	33.75	---	74.00	40.25	V	-14.5
1761.600000	39.98	---	68.20	28.22	V	-11.6
4763.800000	---	33.08	54.00	20.92	V	-3.5
4763.800000	42.41	---	74.00	31.59	V	-3.5
6973.800000	58.04	---	68.20	10.16	V	1.4
12097.600000	---	44.58	54.00	9.42	V	9.0
12097.600000	54.09	---	74.00	19.91	V	9.0
14484.400000	---	46.59	54.00	7.41	V	11.9
14484.400000	53.93	---	74.00	20.07	V	11.9
17969.400000	---	45.39	54.00	8.61	H	11.7
17969.400000	52.74	---	74.00	21.26	H	11.7

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

Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac80 mode 5210 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:	27.1°C
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

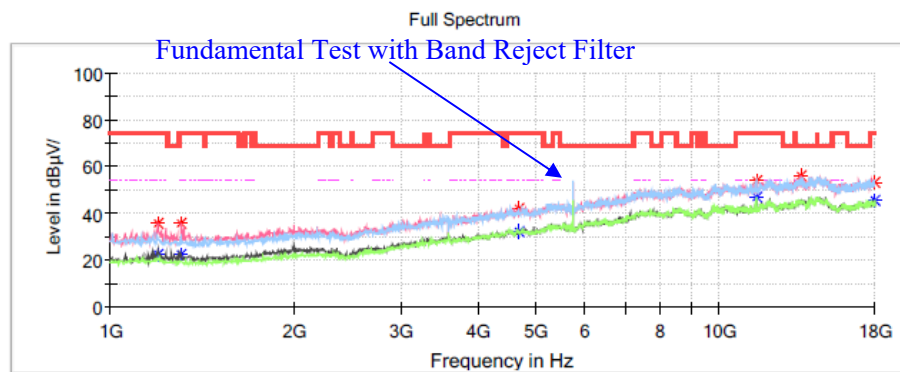
Full Spectrum

**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)
1190.400000	36.69	---	74.00	37.31	V	-14.5
1190.400000	---	22.05	54.00	31.95	V	-14.5
1795.600000	36.90	---	68.20	31.30	V	-11.4
6946.600000	58.88	---	68.20	9.32	V	1.3
8401.800000	---	41.76	54.00	12.24	V	4.4
8401.800000	51.62	---	74.00	22.38	V	4.4
12199.600000	---	43.85	54.00	10.15	H	8.9
12199.600000	54.36	---	74.00	19.64	H	8.9
14494.600000	54.06	---	74.00	19.94	V	12.0
14494.600000	---	46.87	54.00	7.13	V	12.0
17816.400000	---	44.91	54.00	9.09	H	11.3
17816.400000	51.99	---	74.00	22.01	H	11.3

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

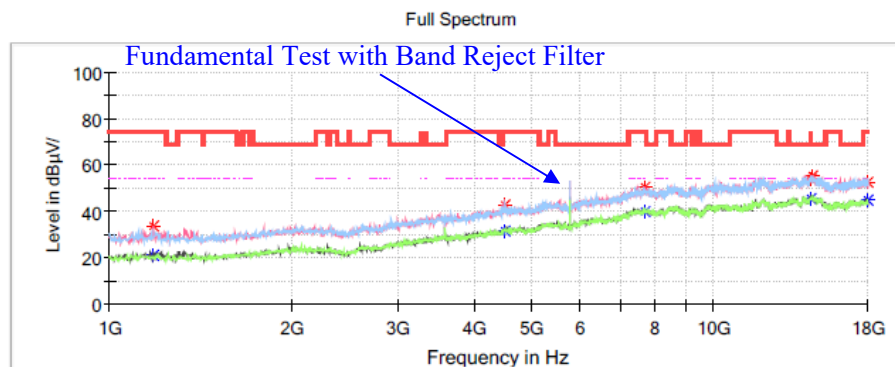
Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11a mode 5745 channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	27.1℃
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	35.90	---	74.00	38.10	V	-14.5
1197.200000	---	22.38	54.00	31.62	V	-14.5
1309.400000	---	22.48	54.00	31.52	V	-14.1
1309.400000	35.33	---	74.00	38.67	V	-14.1
4695.800000	---	32.49	54.00	21.51	V	-3.7
4695.800000	42.22	---	74.00	31.78	V	-3.7
11482.200000	---	46.74	54.00	7.26	H	8.1
11482.200000	53.50	---	74.00	20.50	H	8.1
13614.000000	55.76	---	68.20	12.44	H	10.2
17966.000000	53.12	---	74.00	20.88	H	11.7
17966.000000	---	45.64	54.00	8.36	H	11.7

Middle Channel: 5785MHz**Common Information**

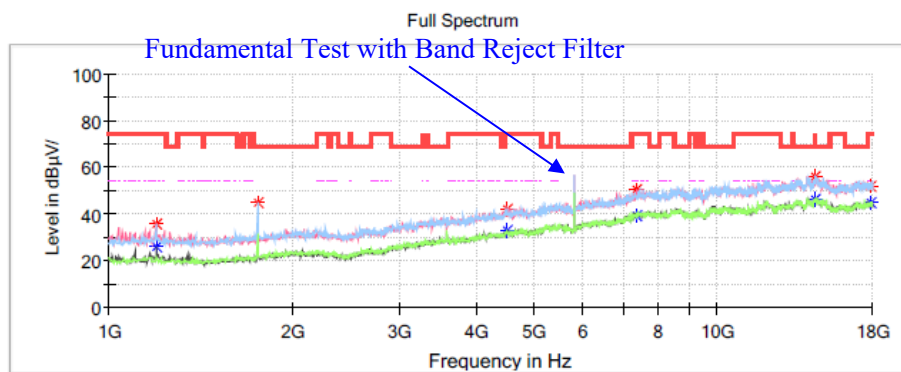
Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11a mode 5785 channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	27.1°C
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	PoI	Corr. (dB/m)
1180.200000	---	20.64	54.00	33.36	V	-14.6
1180.200000	33.59	---	74.00	40.41	V	-14.6
4525.800000	---	31.57	54.00	22.43	H	-4.1
4525.800000	42.50	---	74.00	31.50	H	-4.1
7687.800000	50.67	---	74.00	23.33	V	3.1
7687.800000	---	39.86	54.00	14.14	V	3.1
14487.800000	54.05	---	74.00	19.95	V	11.9
14487.800000	---	45.79	54.00	8.21	V	11.9
14566.000000	55.44	---	68.20	12.76	V	11.7
17983.000000	---	44.94	54.00	9.06	V	11.7
17983.000000	52.52	---	74.00	21.48	V	11.7

High Channel: 5825MHz**Common Information**

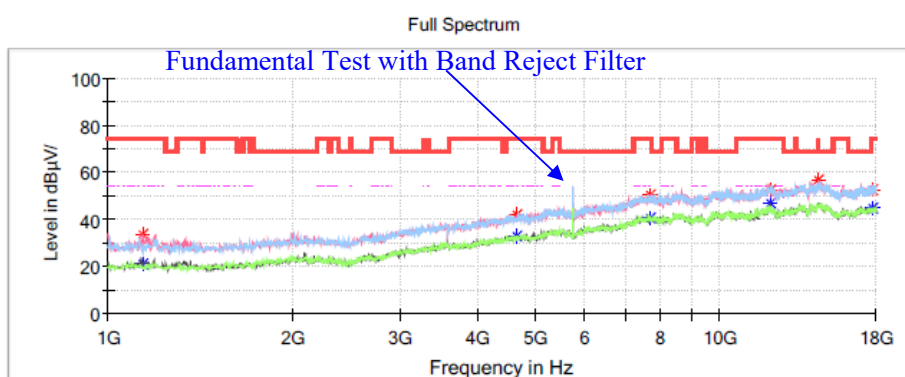
Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11a mode 5825 channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	27.1℃
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	---	25.81	54.00	28.19	V	-14.5
1197.200000	35.34	---	74.00	38.66	V	-14.5
1758.200000	44.67	---	68.20	23.53	V	-11.7
4515.600000	---	32.85	54.00	21.15	V	-4.2
4515.600000	42.21	---	74.00	31.79	V	-4.2
7371.600000	---	39.50	54.00	14.50	V	2.6
7371.600000	50.40	---	74.00	23.60	V	2.6
14481.000000	---	46.40	54.00	7.60	H	11.9
14481.000000	56.00	---	74.00	18.00	H	11.9
17901.400000	---	45.09	54.00	8.91	V	11.5
17901.400000	52.04	---	74.00	21.96	V	11.5

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

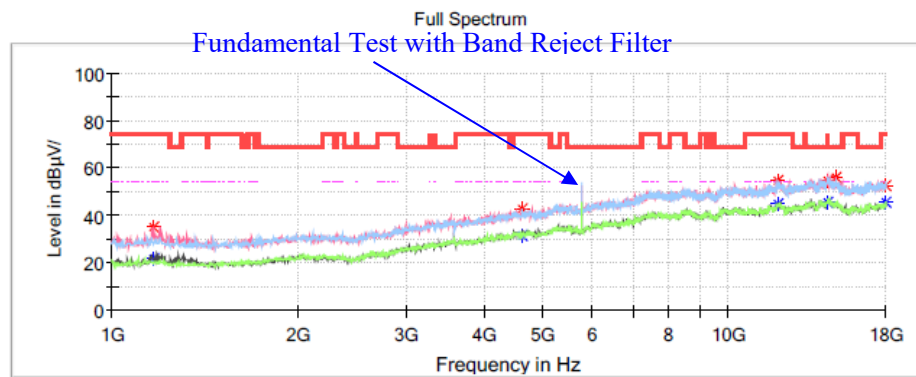
Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11ac20 mode 5745 channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 27.1°C
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

**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)
1139.400000	---	20.80	54.00	33.20	V	-14.7
1139.400000	33.61	---	74.00	40.39	V	-14.7
4651.600000	---	32.70	54.00	21.30	H	-3.8
4651.600000	42.14	---	74.00	31.86	H	-3.8
7698.000000	---	40.49	54.00	13.51	H	3.1
7698.000000	50.63	---	74.00	23.37	H	3.1
12073.800000	---	46.68	54.00	7.32	V	9.0
12073.800000	52.78	---	74.00	21.22	V	9.0
14457.200000	56.31	---	68.20	11.89	V	11.9
17768.800000	52.37	---	74.00	21.63	V	11.1
17768.800000	---	44.59	54.00	9.41	V	11.1

Middle Channel: 5785MHz**Common Information**

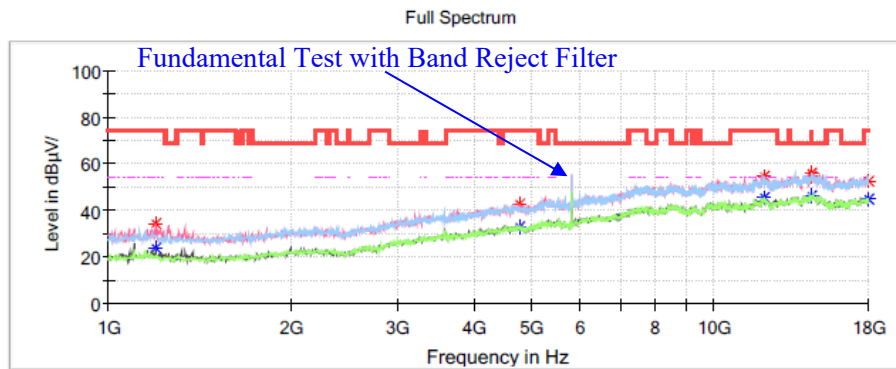
Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11ac20 mode 5785 channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 27.1℃
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

**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)
1170.000000	---	21.77	54.00	32.23	V	-14.6
1170.000000	35.24	---	74.00	38.76	V	-14.6
4627.800000	---	31.74	54.00	22.26	H	-3.9
4627.800000	42.56	---	74.00	31.44	H	-3.9
12060.200000	---	44.45	54.00	9.55	V	9.0
12060.200000	54.37	---	74.00	19.63	V	9.0
14494.600000	---	45.79	54.00	8.21	V	12.0
14494.600000	54.76	---	74.00	19.24	V	12.0
14970.600000	55.89	---	68.20	12.31	V	10.4
17986.400000	52.80	---	74.00	21.20	V	11.7
17986.400000	---	45.37	54.00	8.63	V	11.7

High Channel: 5825MHz**Common Information**

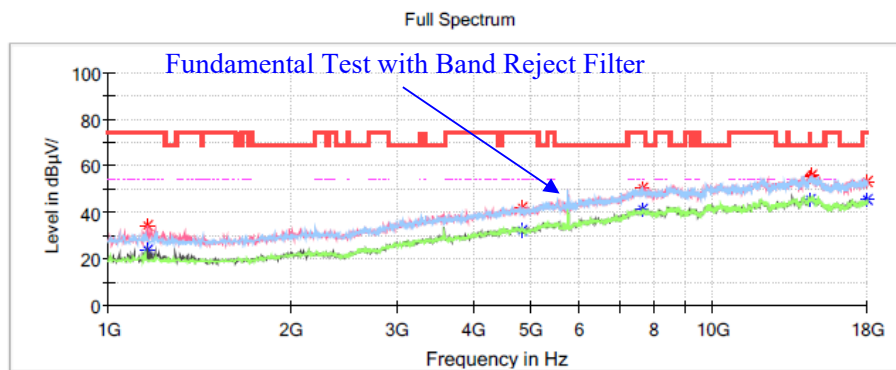
Project No.: RKSA250411002
 EUT Model: P5L-PINPad
 Test Mode: Transmitting in 802.11ac20 mode 5825 channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 27.1°C
 Humidity: 50%
 Atmospheric Pressure: 100.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/9

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	---	23.74	54.00	30.26	V	-14.5
1197.200000	34.42	---	74.00	39.58	V	-14.5
4763.800000	---	32.77	54.00	21.23	H	-3.5
4763.800000	42.69	---	74.00	31.31	H	-3.5
12084.000000	---	45.25	54.00	8.75	H	9.0
12084.000000	54.60	---	74.00	19.40	H	9.0
14498.000000	---	46.13	54.00	7.87	H	12.0
14498.000000	54.40	---	74.00	19.60	H	12.0
14511.600000	56.08	---	68.20	12.12	H	11.9
17986.400000	52.70	---	74.00	21.30	H	11.7
17986.400000	---	44.83	54.00	9.17	H	11.7

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

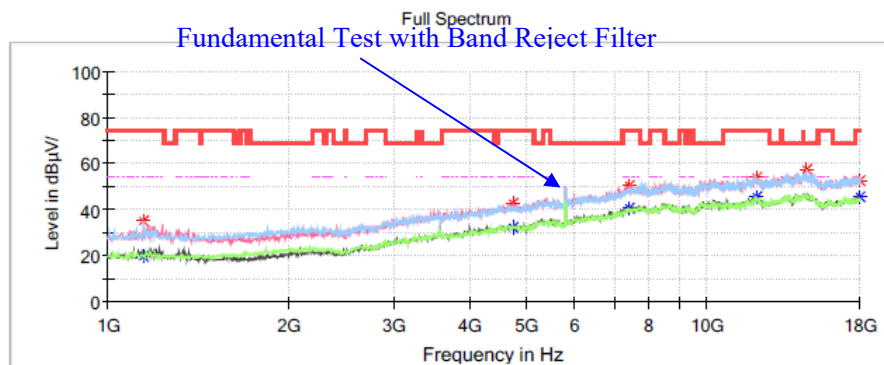
Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11ac40 mode 5755 channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 27.1°C
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

**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)
1163.200000	34.60	---	74.00	39.40	V	-14.6
1163.200000	---	23.75	54.00	30.25	V	-14.6
4831.800000	---	32.50	54.00	21.50	V	-3.3
4831.800000	42.11	---	74.00	31.89	V	-3.3
7667.400000	50.60	---	74.00	23.40	H	3.1
7667.400000	---	40.94	54.00	13.06	H	3.1
14498.000000	---	45.51	54.00	8.49	V	12.0
14498.000000	55.08	---	74.00	18.92	V	12.0
14566.000000	55.90	---	68.20	12.30	V	11.7
17993.200000	---	45.33	54.00	8.67	V	11.8
17993.200000	52.97	---	74.00	21.03	V	11.8

Channel: 5795MHz**Common Information**

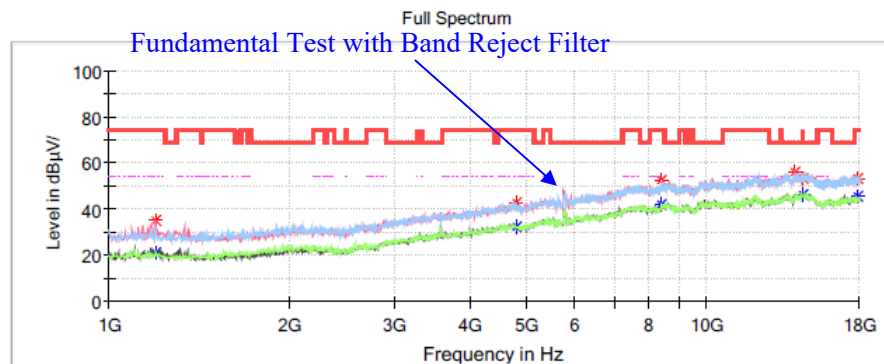
Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac40 mode 5795 channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	27.1°C
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

**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)
1149.600000	---	19.92	54.00	34.08	H	-14.7
1149.600000	34.93	---	74.00	39.07	H	-14.7
4746.800000	---	32.29	54.00	21.71	V	-3.6
4746.800000	42.56	---	74.00	31.44	V	-3.6
7419.200000	---	40.26	54.00	13.74	H	2.7
7419.200000	50.51	---	74.00	23.49	H	2.7
12090.800000	53.73	---	74.00	20.27	V	9.0
12090.800000	---	45.79	54.00	8.21	V	9.0
14651.000000	57.12	---	68.20	11.08	V	11.5
17969.400000	52.34	---	74.00	21.66	V	11.7
17969.400000	---	45.56	54.00	8.44	V	11.7

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

Project No.: RKSA250411002
 EUT Model: P5L-PINPad
 Test Mode: Transmitting in 802.11ac80 mode 5775 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: 27.1℃
 Humidity: 50%
 Atmospheric Pressure: 100.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/9

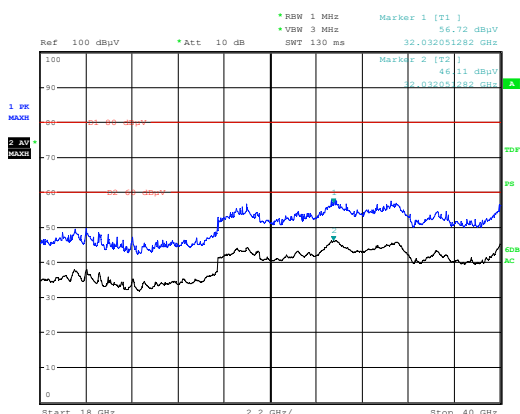
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1193.800000	---	21.21	54.00	32.79	V	-14.5
1193.800000	34.71	---	74.00	39.29	V	-14.5
4811.400000	---	32.41	54.00	21.59	H	-3.4
4811.400000	42.41	---	74.00	31.59	H	-3.4
8405.200000	---	41.61	54.00	12.39	H	4.4
8405.200000	52.53	---	74.00	21.47	H	4.4
14076.400000	55.71	---	68.20	12.49	V	11.2
14494.600000	53.40	---	74.00	20.60	V	12.0
14494.600000	---	46.00	54.00	8.00	V	12.0
17918.400000	52.83	---	74.00	21.17	V	11.5
17918.400000	---	45.68	54.00	8.32	V	11.5

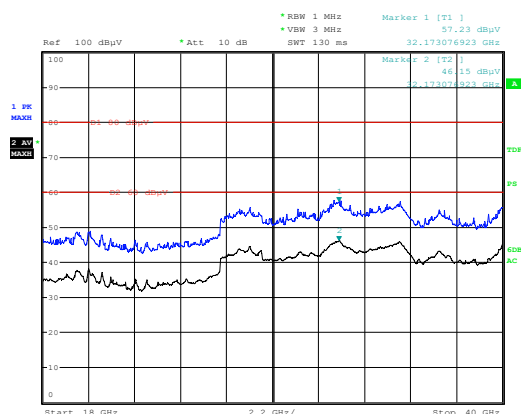
18GHz-40GHz:

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 (5180MHz)** was recorded

Horizontal



Vertical



Project No :RKSA250411002
Date: 7.JUN.2025 18:39:50

Tester :Hugh Wu

Project No :RKSA250411002
Date: 7.JUN.2025 19:16:23

Tester :Hugh Wu

Note: The test distance is 1.5m. The limit is 80dBμV/m(Peak) and 60dBμV/m(Average).

Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
32.03	---	46.11	60	13.89	H	23.17
32.03	56.72	---	80	23.28	H	23.17
32.17	---	46.15	60	13.85	V	23.31
32.17	57.23	---	80	22.77	V	23.31

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

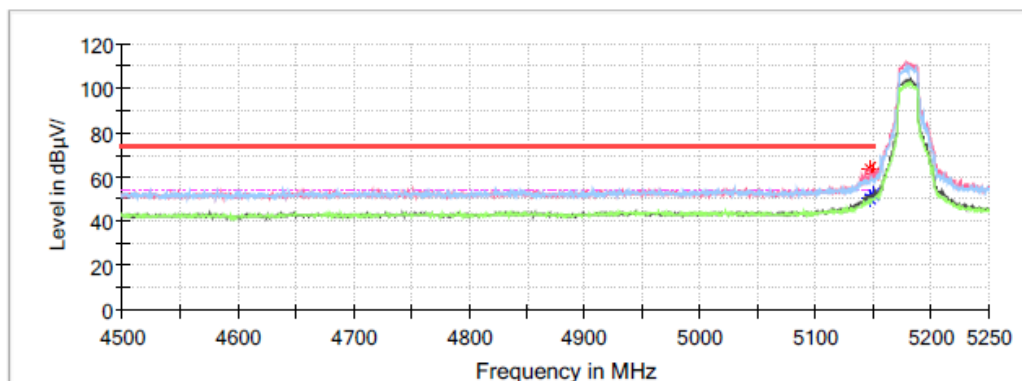
Note:

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.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11a mode 5180 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:	27.1℃
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

Full Spectrum

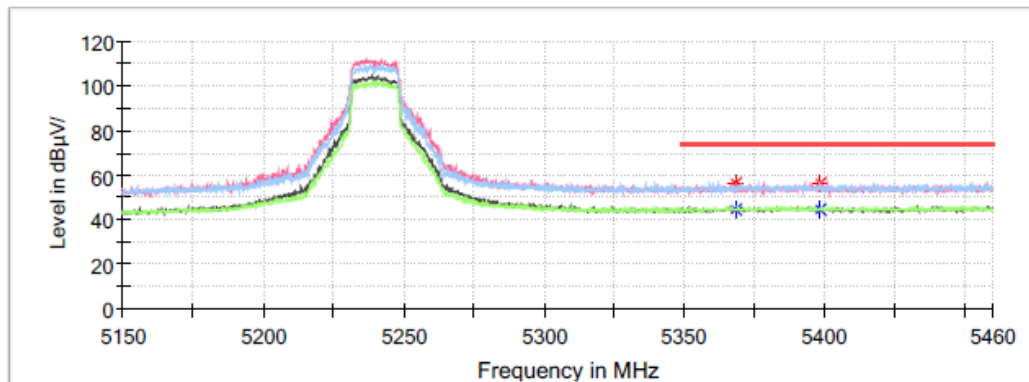
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5146.200000	63.79	---	74.00	10.21	V	7.5
5146.200000	---	50.25	54.00	3.75	V	7.5
5149.500000	61.40	---	74.00	12.60	V	7.5
5149.500000	---	52.12	54.00	1.88	V	7.5

Common Information

Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11a mode 5240 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: 27.1°C
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

Full Spectrum



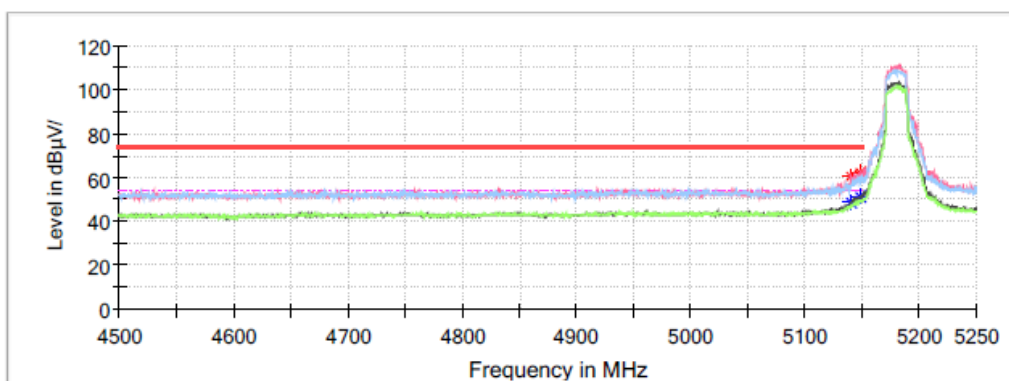
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5368.612000	---	44.52	54.00	9.48	V	7.6
5368.612000	56.08	---	74.00	17.92	V	7.6
5398.744000	---	44.68	54.00	9.32	H	7.7
5398.744000	56.20	---	74.00	17.80	H	7.7

802.11ac20 Mode:**Common Information**

Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac20 mode 5180 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:	27.1℃
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

Full Spectrum

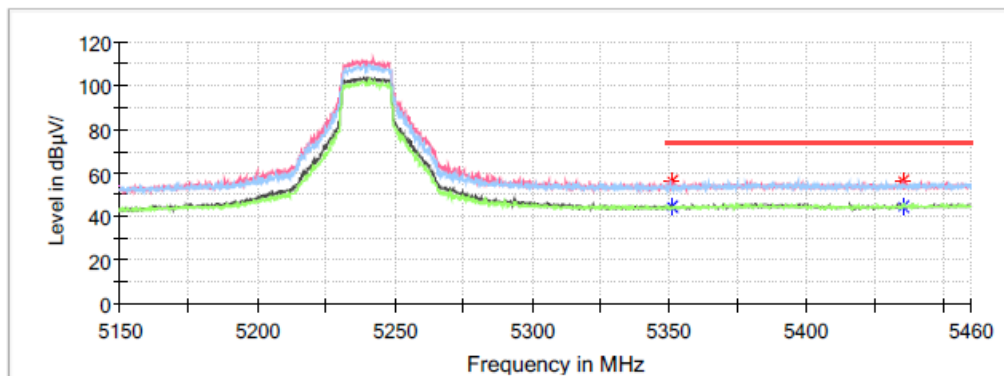
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5140.800000	---	48.65	54.00	5.35	V	7.5
5140.800000	60.30	---	74.00	13.70	V	7.5
5147.700000	---	51.42	54.00	2.58	V	7.5
5147.700000	62.08	---	74.00	11.92	V	7.5

Common Information

Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11ac20 mode 5240 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: 27.1℃
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

Full Spectrum



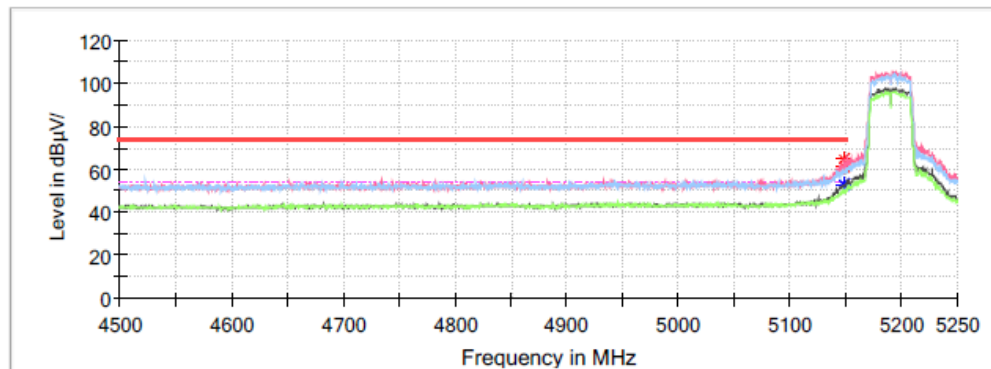
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5351.128000	---	44.10	54.00	9.90	V	7.6
5351.128000	56.43	---	74.00	17.57	V	7.6
5435.076000	---	44.50	54.00	9.50	V	7.7
5435.076000	56.07	---	74.00	17.93	V	7.7

802.11ac40 Mode:**Common Information**

Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac40 mode 5190 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:	27.1℃
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

Full Spectrum

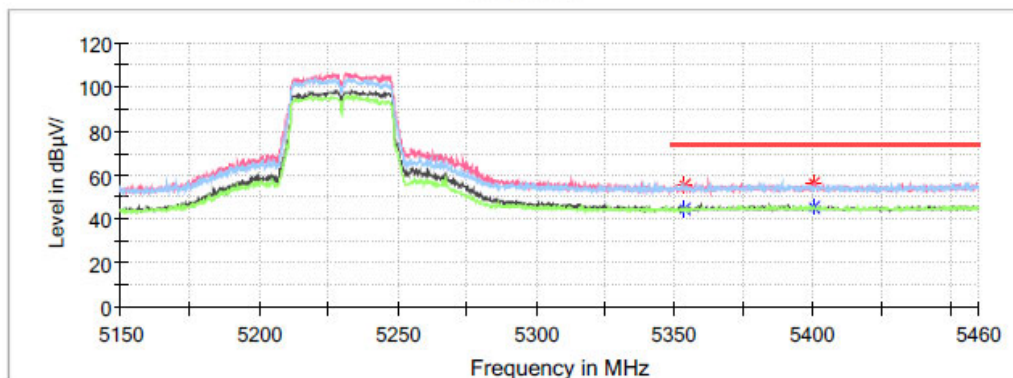
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5148.300000	---	52.96	54.00	1.04	V	7.5
5148.300000	61.57	---	74.00	12.43	V	7.5
5148.600000	---	52.80	54.00	1.20	V	7.5
5148.600000	64.20	---	74.00	9.80	V	7.5

Common Information

Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac40 mode 5230 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:	27.1°C
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

Full Spectrum



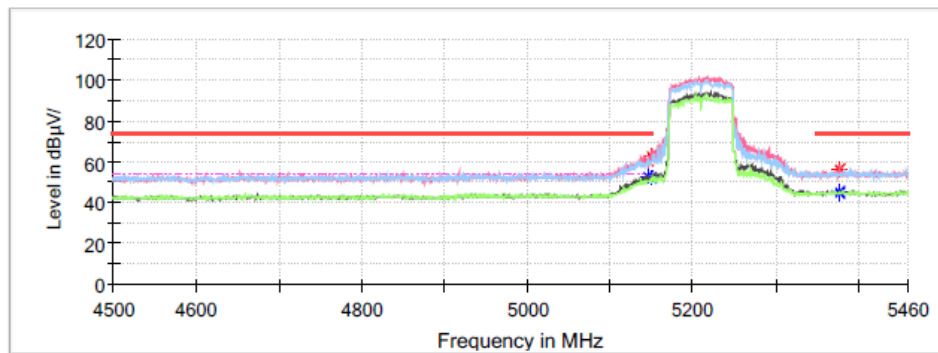
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5353.856000	---	44.23	54.00	9.77	H	7.6
5353.856000	55.55	---	74.00	18.45	H	7.6
5400.604000	---	45.33	54.00	8.67	V	7.7
5400.604000	56.44	---	74.00	17.56	V	7.7

802.11ac80 Mode:**Common Information**

Project No.: RKSA250411002
 EUT Model: P5L-PINPad
 Test Mode: Transmitting in 802.11ac80 mode 5210 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: 27.1°C
 Humidity: 50%
 Atmospheric Pressure: 100.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/7/9

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)
5144.736000	---	52.83	54.00	1.17	V	7.5
5144.736000	60.46	---	74.00	13.54	V	7.5
5148.960000	---	51.83	54.00	2.17	V	7.5
5148.960000	63.20	---	74.00	10.80	V	7.5
5376.288000	55.86	---	74.00	18.14	V	7.6
5376.288000	---	45.04	54.00	8.96	V	7.6
5377.824000	---	44.49	54.00	9.51	H	7.6
5377.824000	56.20	---	74.00	17.80	V	7.6

Bandedge Emissions Test (5725-5850MHz Band):

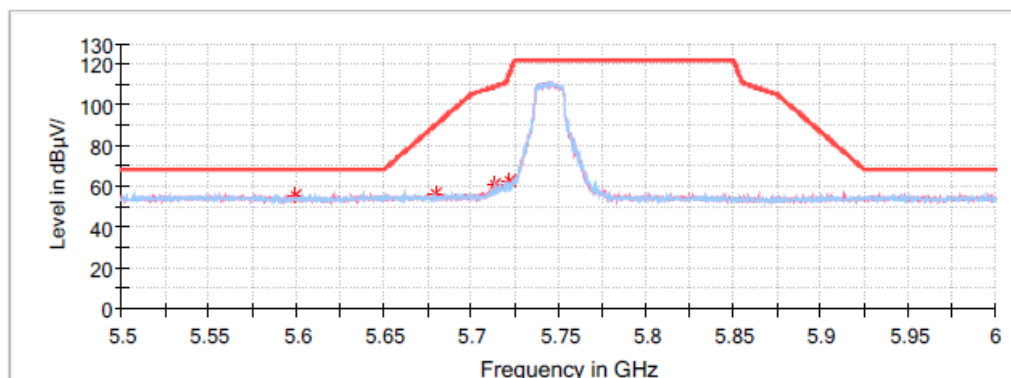
Note:

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.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11a mode 5745 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:	27.1℃
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

Full Spectrum

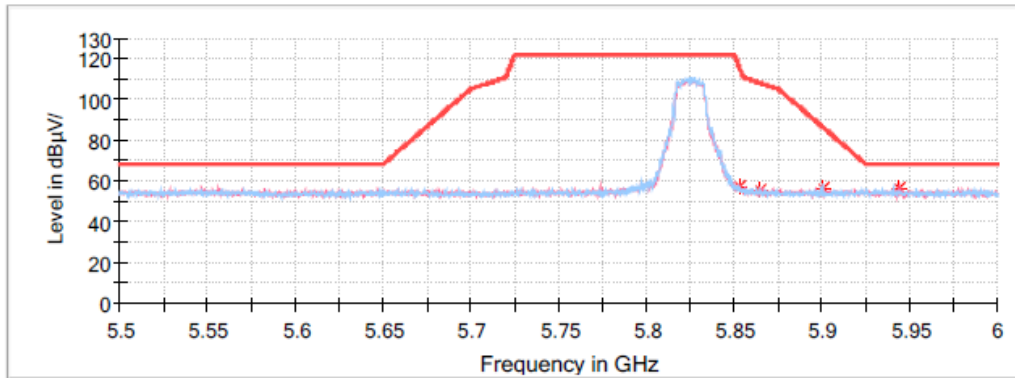
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5599.600000	55.36	---	68.20	12.84	V	7.8
5679.400000	56.13	---	89.96	33.83	V	7.8
5714.000000	61.05	---	109.12	48.07	H	7.8
5722.200000	63.04	---	115.82	52.77	H	7.8

Common Information

Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11a mode 5825 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: 27.1℃
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

Full Spectrum



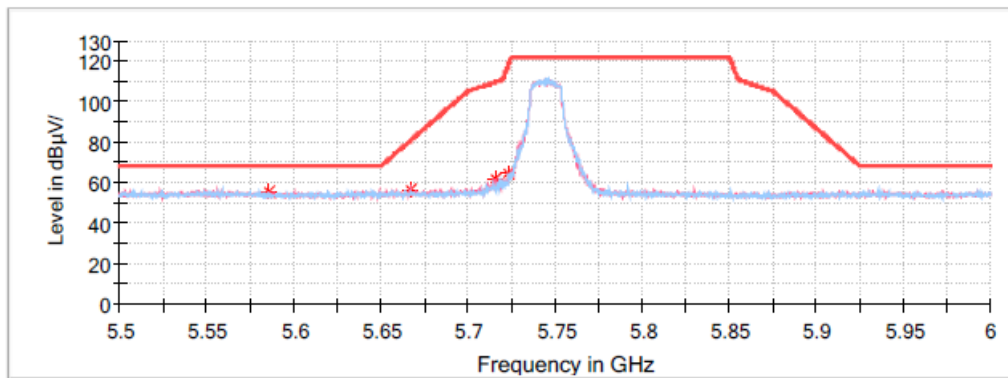
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5853.400000	57.61	---	114.45	56.83	V	7.9
5864.800000	55.73	---	108.06	52.33	V	7.9
5900.200000	56.54	---	86.55	30.01	H	7.9
5943.600000	56.38	---	68.20	11.82	H	7.9

802.11ac20 Mode:**Common Information**

Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac20 mode 5745 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:	27.1°C
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

Full Spectrum

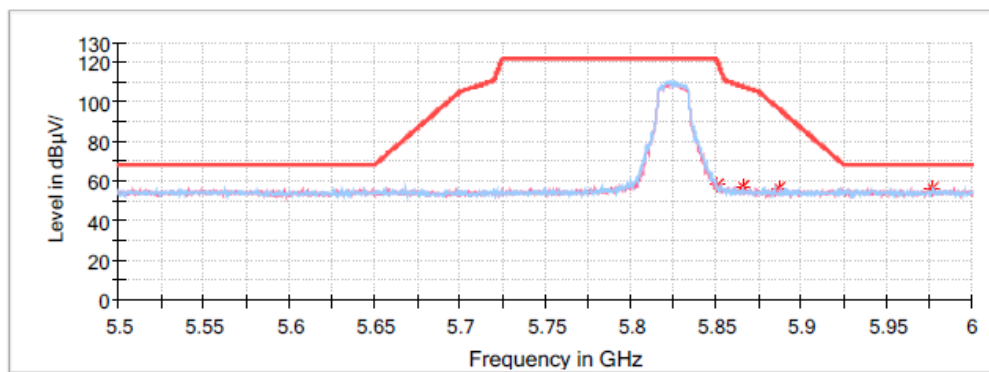
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5585.600000	55.36	---	68.20	12.84	V	7.8
5666.800000	56.57	---	80.63	24.06	V	7.8
5715.200000	62.07	---	109.46	47.39	H	7.8
5723.000000	64.30	---	117.64	53.34	H	7.8

Common Information

Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11ac20 mode 5825 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: 27.1℃
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

Full Spectrum



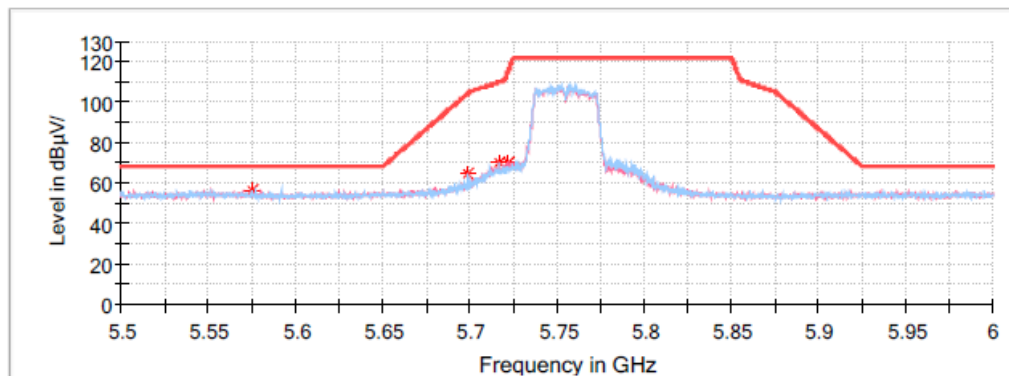
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5851.200000	58.45	---	119.46	61.01	H	7.9
5866.000000	57.24	---	107.72	50.48	H	7.9
5887.200000	56.25	---	96.17	39.92	V	7.9
5977.200000	56.59	---	68.20	11.61	V	7.9

802.11ac40 Mode:**Common Information**

Project No.:	RKSA250411002
EUT Model:	P5L-PINPad
Test Mode:	Transmitting in 802.11ac40 mode 5755 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:	27.1℃
Humidity:	50%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/7/9

Full Spectrum

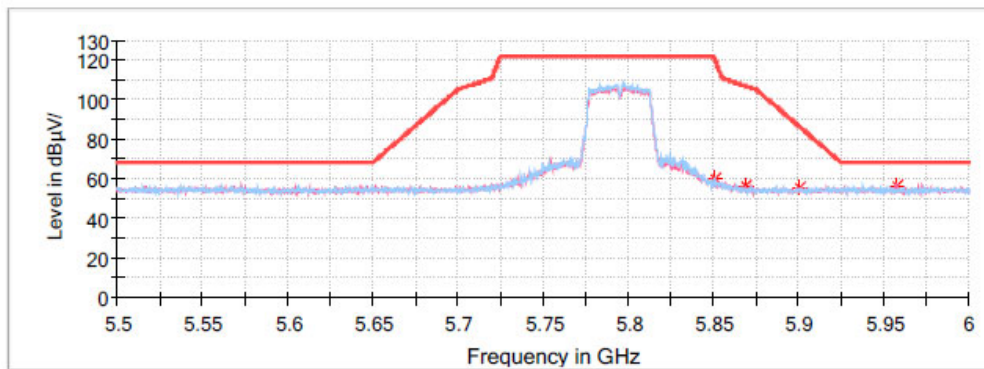
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5574.800000	56.32	---	68.20	11.88	H	7.8
5698.800000	64.68	---	104.31	39.64	H	7.8
5716.800000	69.61	---	109.90	40.30	V	7.8
5721.600000	69.62	---	114.45	44.83	V	7.8

Common Information

Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11ac40 mode 5795 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: 27.1°C
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

Full Spectrum



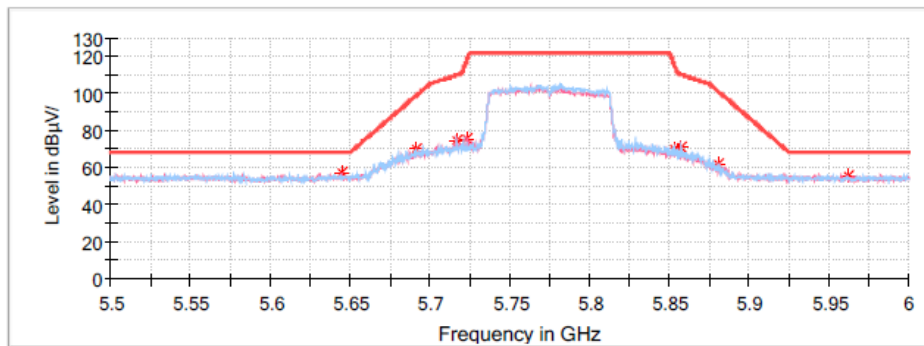
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5850.600000	59.87	---	120.83	60.96	H	7.9
5868.600000	56.10	---	106.99	50.89	H	7.9
5900.800000	55.40	---	86.11	30.71	V	7.9
5958.200000	56.42	---	68.20	11.78	V	7.9

802.11ac80 Mode:**Common Information**

Project No.: RKSA250411002
EUT Model: P5L-PINPad
Test Mode: Transmitting in 802.11ac80 mode 5775 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: 27.1℃
Humidity: 50%
Atmospheric Pressure: 100.6kPa
Test Engineer: Destine Hu
Test Date: 2025/7/9

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)
5644.600000	56.84	---	68.20	11.36	V	7.8
5691.600000	69.55	---	98.98	29.43	H	7.8
5717.200000	74.72	---	110.02	35.30	V	7.8
5723.400000	75.65	---	118.55	42.90	V	7.8
5852.600000	69.55	---	116.27	46.72	H	7.9
5857.800000	70.59	---	110.02	39.42	H	7.9
5880.600000	62.18	---	101.06	38.87	H	7.9
5961.600000	55.67	---	68.20	12.53	V	7.9

EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-07-10
Temperature:	26 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa
Test Engineer:	Neil Zhou

Test Result: Compliant*5150-5250 MHz:*

Test mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11 a	Low	5180	24.943	16.850
	Middle	5200	26.428	16.900
	High	5240	25.602	16.900
802.11 ac20	Low	5180	27.295	18.050
	Middle	5200	26.917	18.000
	High	5240	27.369	18.000
802.11 ac40	Low	5190	41.700	36.400
	High	5230	43.400	36.300
802.11 ac80	Middle	5210	84.400	75.600

Note: the 99% Occupied Bandwidth have not fall into the band 5250-5350MHz

5725-5850MHz:

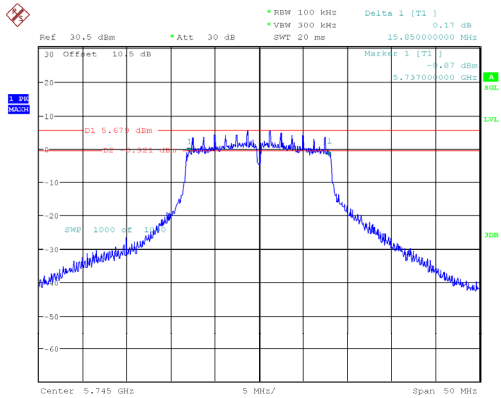
Test mode	Channel	Frequency (MHz)	99% Bandwidth (MHz)
802.11 a	Low	5745	16.750
	Middle	5785	16.850
	High	5825	16.800
802.11 ac20	Low	5745	17.850
	Middle	5785	17.900
	High	5825	17.900
802.11 ac40	Low	5755	36.500
	High	5795	36.500
802.11 ac80	Middle	5775	76.000

Note: the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz.

Test mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
802.11 a	Low	5745	15.850	0.5
	Middle	5785	15.550	
	High	5825	15.900	
802.11 ac20	Low	5745	16.050	
	Middle	5785	15.800	
	High	5825	15.450	
802.11 ac40	Low	5755	35.300	
	High	5795	35.500	
802.11 ac80	Middle	5775	75.600	

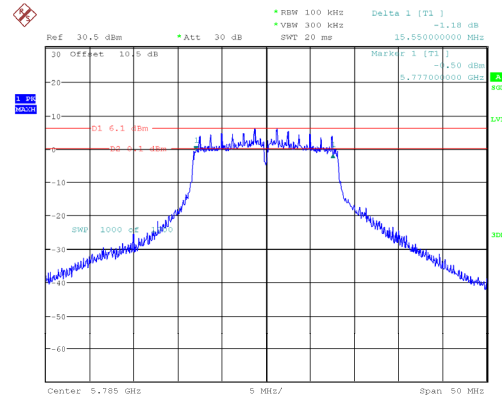
6dB Bandwidth
5725-5850 MHz Band

802.11a mode, 5745MHz



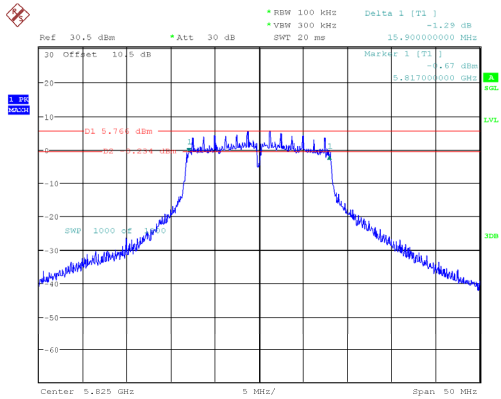
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:19:18

802.11a mode, 5785MHz



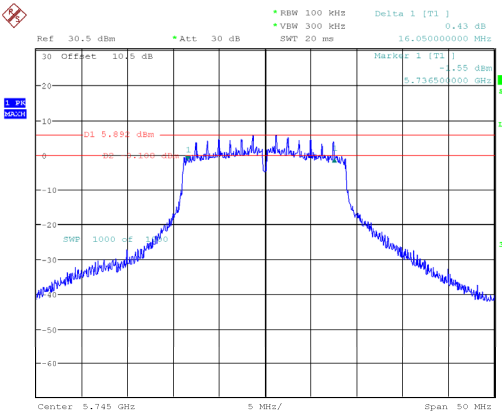
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:22:22

802.11a mode, 5825MHz



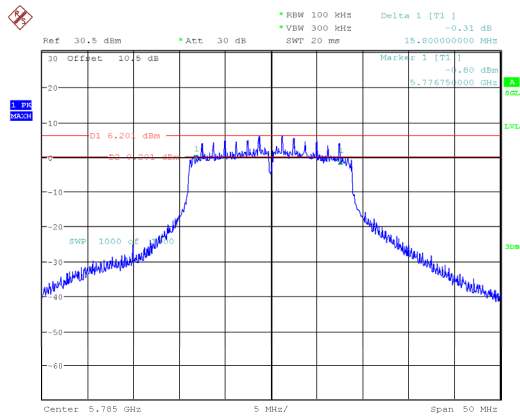
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:25:28

802.11ac20 mode, 5745MHz



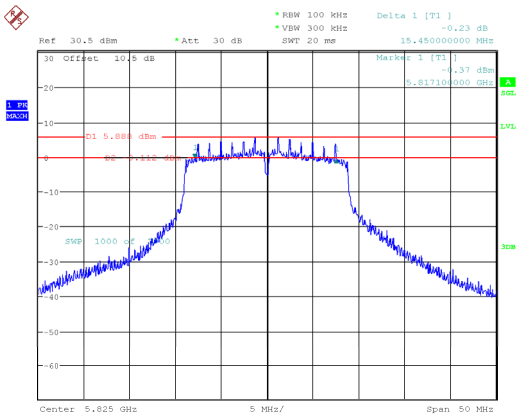
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:30:47

802.11 ac20 mode, 5785MHz



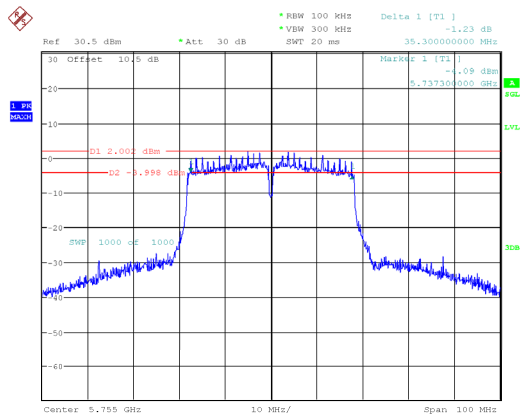
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:34:26

802.11 ac20 mode, 5825MHz



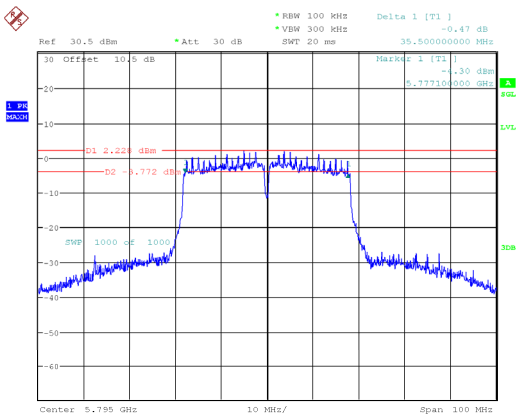
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:38:02

802.11ac40 mode, 5755MHz



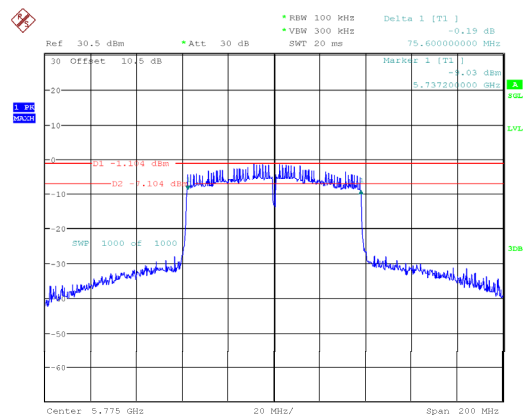
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:43:34

802.11 ac40 mode, 5795MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:48:37

802.11ac80 mode, 5775MHz

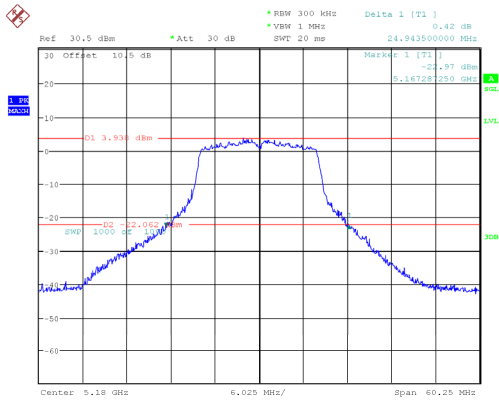


ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:53:58

26 Bandwidth

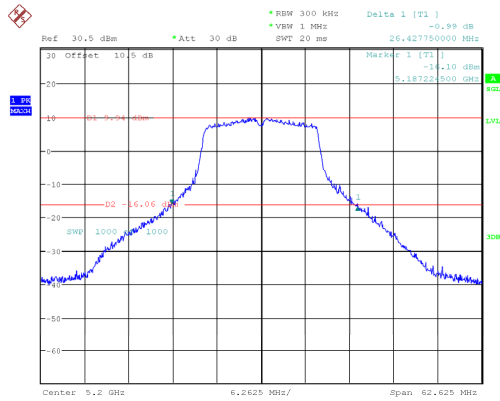
5150-5250 MHz Band:

802.11a mode, 5180MHz



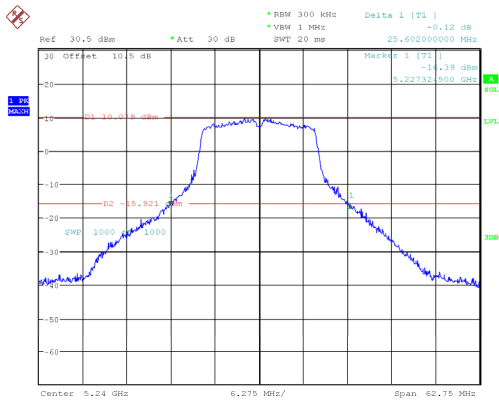
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:30:33

802.11a mode, 5200MHz



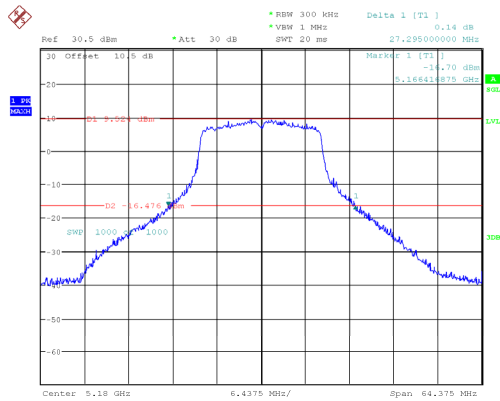
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:35:42

802.11a mode, 5240MHz



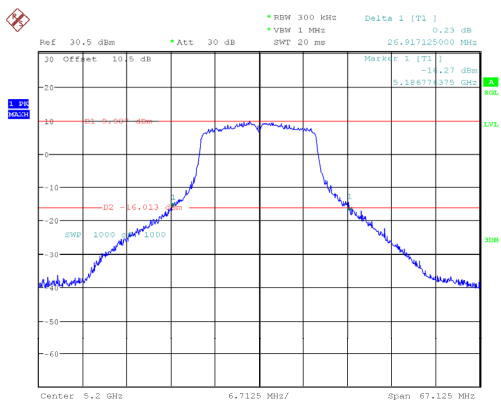
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:40:21

802.11ac20 mode, 5180MHz



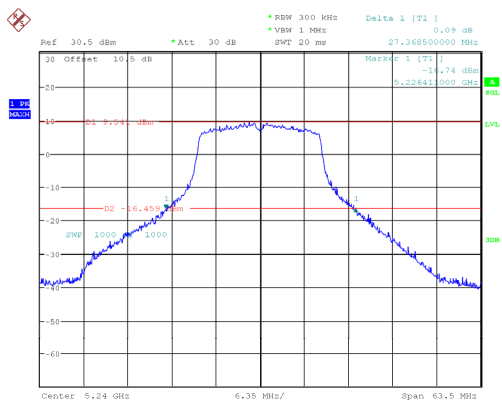
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:45:38

802.11 ac20 mode, 5200MHz



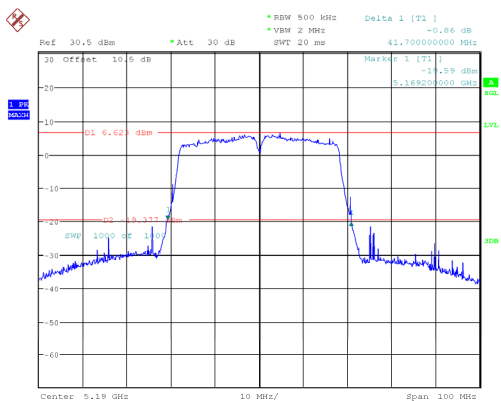
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:50:05

802.11 ac20 mode, 5240MHz



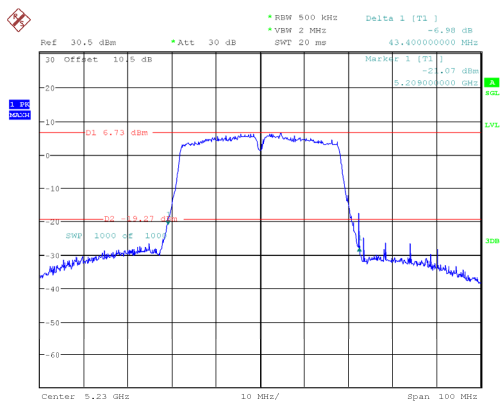
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:55:19

802.11ac40 mode, 5190MHz



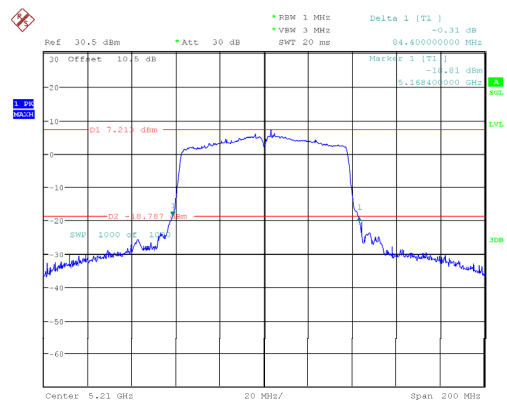
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:02:27

802.11 ac40 mode, 5230MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:06:59

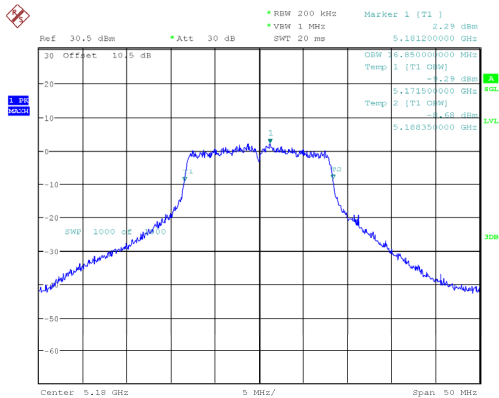
802.11ac80 mode, 5210MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:13:20

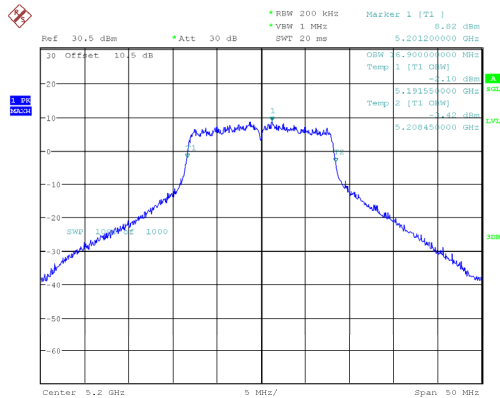
99% Occupied Bandwidth

5150-5250 MHz Band:
802.11a mode, 5180MHz



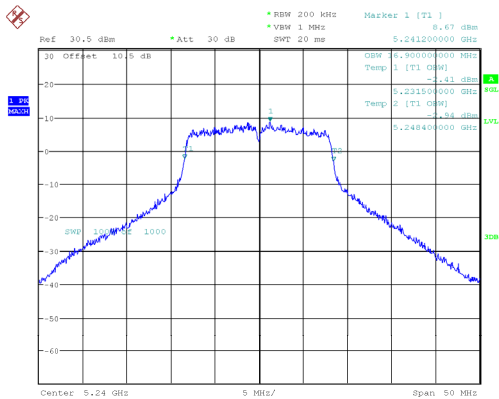
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:31:39

802.11a mode, 5200MHz



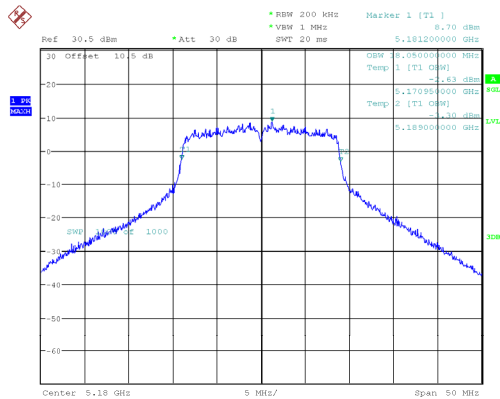
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:36:44

802.11a mode, 5240MHz



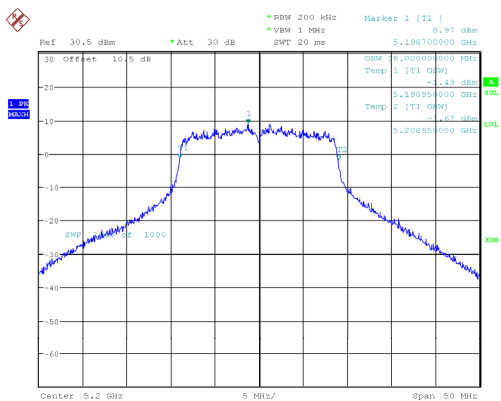
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:41:30

802.11ac20 mode, 5180MHz



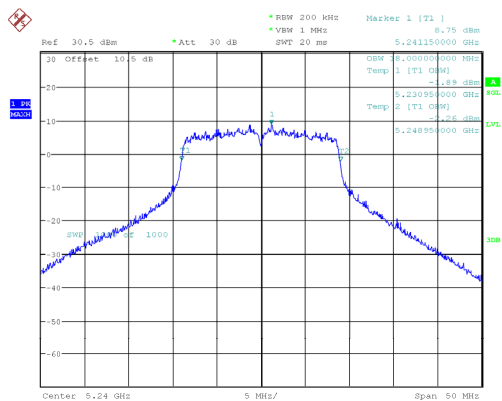
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:46:42

802.11 ac20 mode, 5200MHz



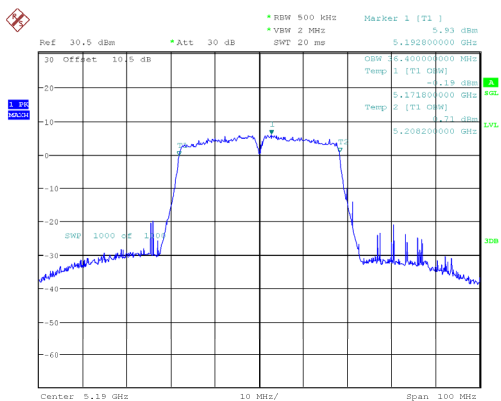
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:51:08

802.11 ac20 mode, 5240MHz



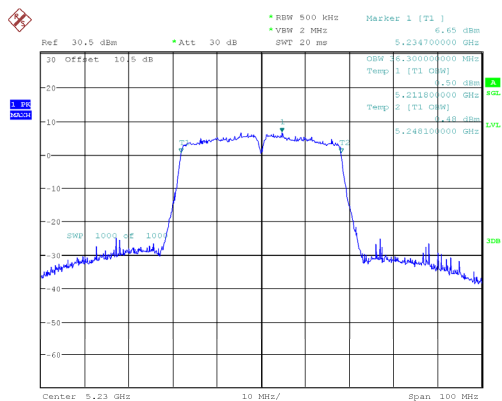
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:57:35

802.11ac40 mode, 5190MHz



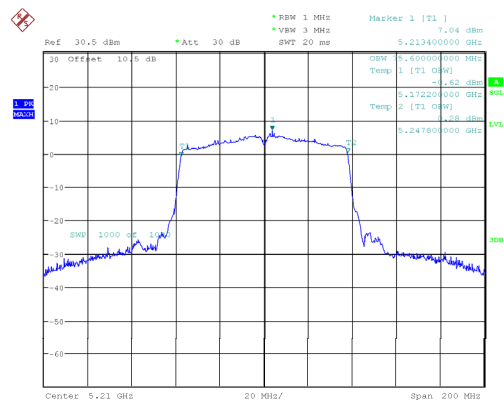
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:04:12

802.11 ac40 mode, 5230MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:08:39

802.11ac80 mode, 5210MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:15:05

802.11a mode, 5745MHz

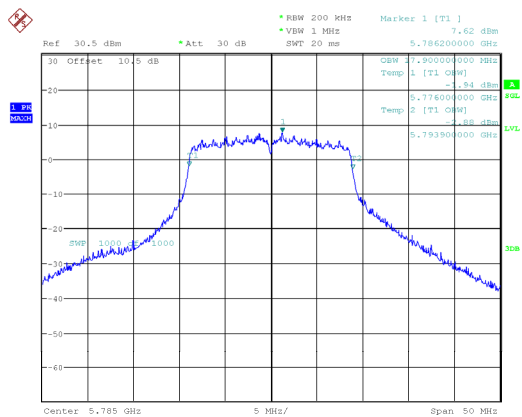


ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:23:22

ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:26:28

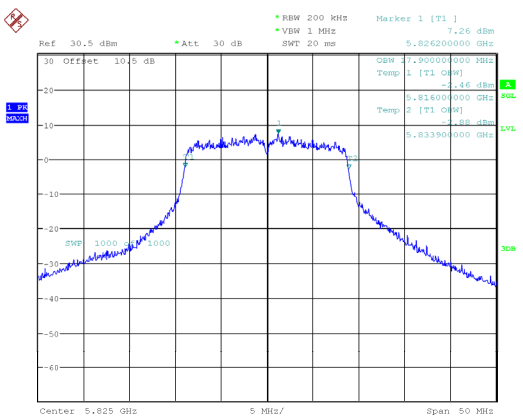
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:31:46

802.11 ac20 mode, 5785MHz



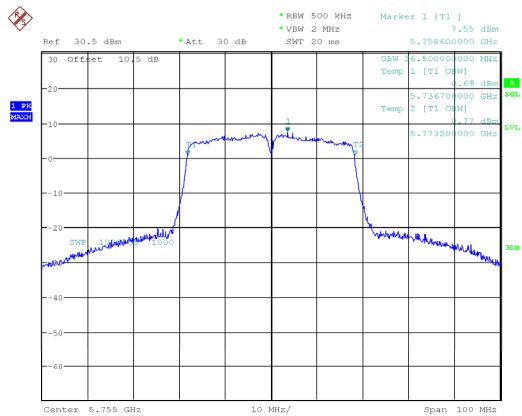
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:35:24

802.11 ac20 mode, 5825MHz



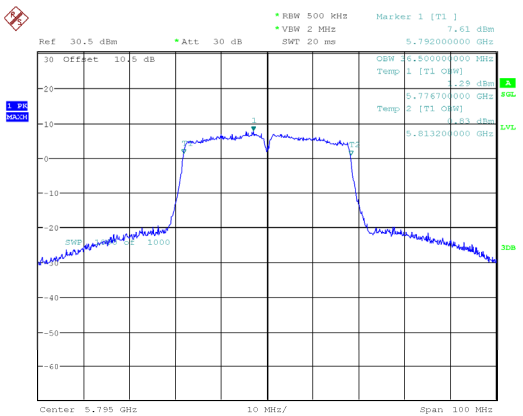
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:39:19

802.11ac40 mode, 5755MHz



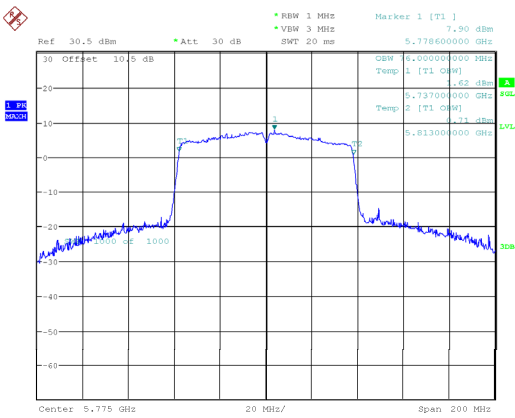
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:45:22

802.11 ac40 mode, 5795MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:50:29

802.11 ac80 mode, 5775MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:55:50

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

Test Date:	2025-07-10
Temperature:	26 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa
Test Engineer:	Neil Zhou

Test Mode: Transmitting

Band	Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)	Limit (dBm)
5150-5250 MHz	802.11 a	Low	5180	16.82	24
		Middle	5200	16.73	
		High	5240	16.53	
	802.11 ac20	Low	5180	16.54	
		Middle	5200	16.8	
		High	5240	16.57	
	802.11 ac40	Low	5190	13.91	
		High	5230	14.13	
	802.11 ac80	Middle	5210	12.79	

Band	Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)	Limit (dBm)
5725-5850 MHz	802.11 a	Low	5745	15.28	30
		Middle	5785	15.64	
		High	5825	15.37	
	802.11 ac20	Low	5745	15.39	
		Middle	5785	15.67	
		High	5825	15.36	
	802.11 ac40	Low	5755	15.13	
		High	5795	15.35	
	802.11 ac80	Middle	5775	14.74	

Note: the EUT is a client equipment.

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

Test Date:	2025-07-10
Temperature:	26 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa
Test Engineer:	Neil Zhou

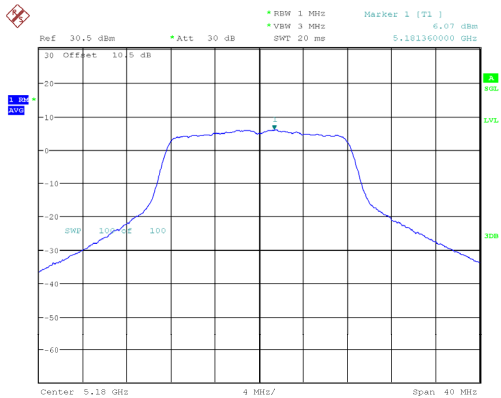
Test Mode: Transmitting

Band	Mode	Channel	Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Result (dBm/MHz)	Limit (dBm/MHz)
5150-5250 MHz	802.11 a	Low	5180	6.07	/	6.07	11
		Middle	5200	6.32	/	6.32	
		High	5240	6.20	/	6.20	
	802.11 ac20	Low	5180	5.78	0.09	5.87	
		Middle	5200	6.09	0.09	6.18	
		High	5240	5.87	0.09	5.96	
	802.11 ac40	Low	5190	0.38	0.17	0.55	
		High	5230	0.59	0.17	0.76	
	802.11 ac80	Middle	5210	-3.77	0.35	-3.42	

Band	Mode	Channel	Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor (dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)
5725-5850 MHz	802.11 a	Low	5745	1.93	/	1.93	30
		Middle	5785	2.22	/	2.22	
		High	5825	1.93	/	1.93	
	802.11 ac20	Low	5745	1.58	0.09	1.67	
		Middle	5785	1.92	0.09	2.01	
		High	5825	1.55	0.09	1.64	
	802.11 ac40	Low	5755	-1.63	0.17	-1.46	
		High	5795	-1.43	0.17	-1.26	
	802.11 ac80	Middle	5775	-5.13	0.38	-4.75	

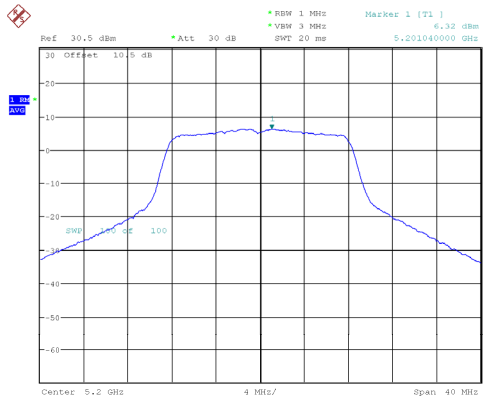
Note: Result=Reading+ Duty Cycle Factor

5150MHz-5250 MHz Band:
802.11a mode, Power spectral density-5180MHz



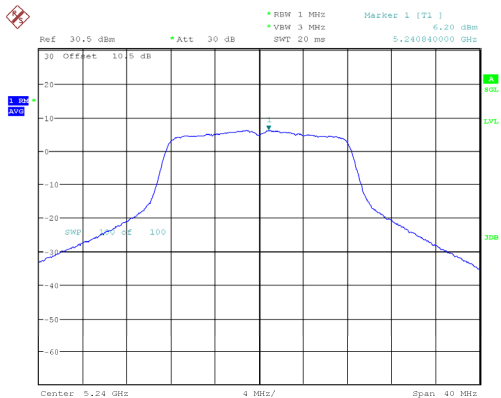
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:32:16

802.11a mode, Power spectral density-5200MHz



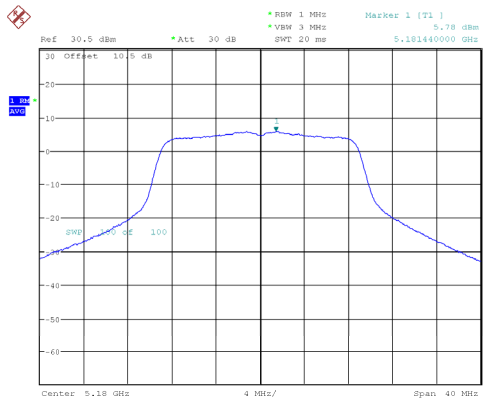
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:37:31

802.11a mode, Power spectral density-5240MHz



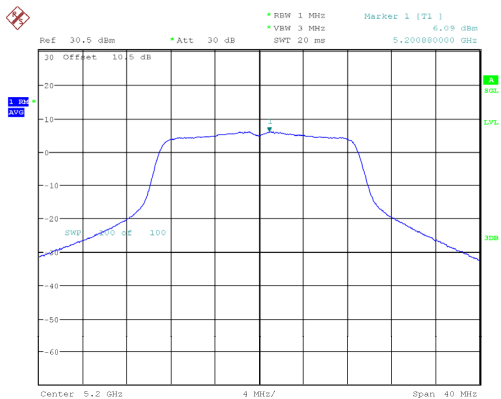
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:42:09

802.11ac20 mode, Power spectral density-5180MHz



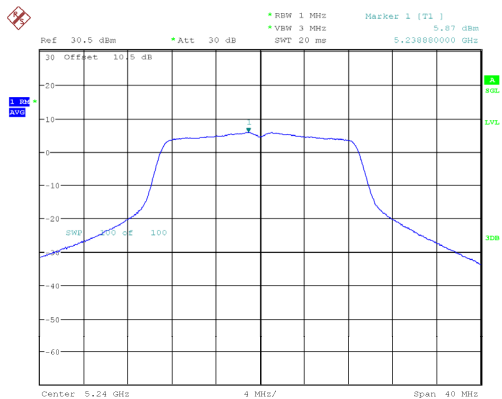
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:47:18

802.11 ac20 mode, Power spectral density-5200MHz



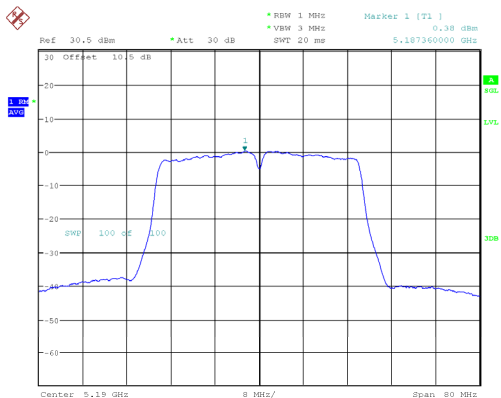
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:51:44

802.11 ac20 mode, Power spectral density-5240MHz



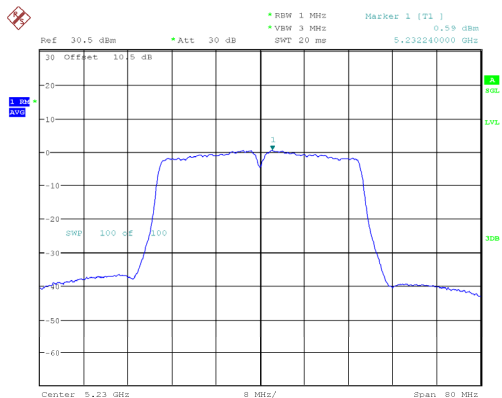
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 09:59:57

802.11ac40 mode, Power spectral density-5190MHz



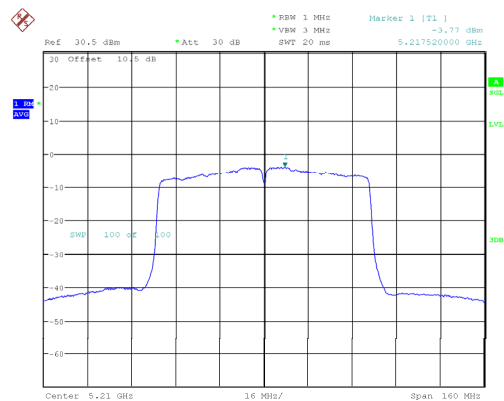
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:04:40

802.11 ac40 mode, Power spectral density-5230MHz



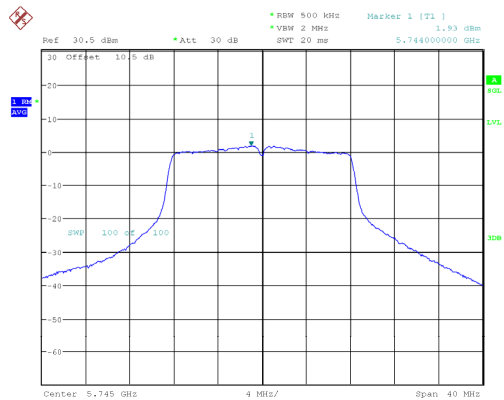
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:09:07

802.11 ac80 mode, Power spectral density-5210MHz



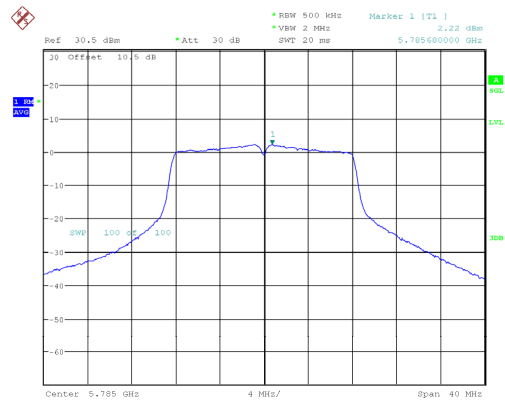
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:15:43

5725MHz-5850 MHz Band:
802.11a mode, Power spectral density-5745MHz



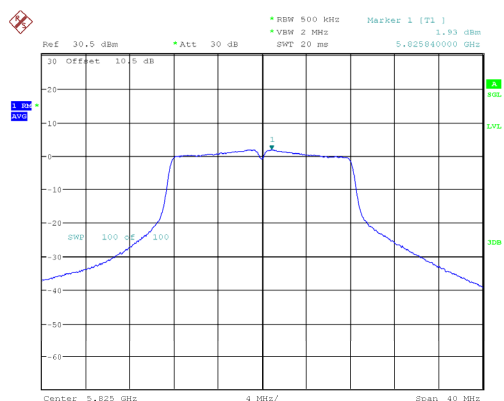
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:20:47

802.11a mode, Power spectral density-5785MHz



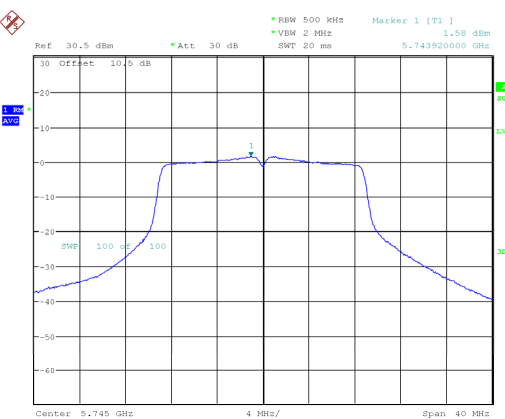
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:23:51

802.11a mode, Power spectral density-5825MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:28:56

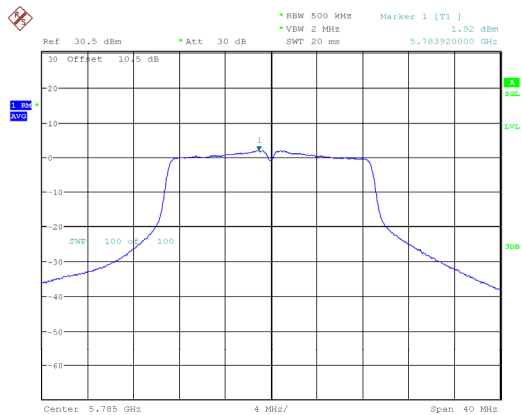
802.11ac20 mode, Power spectral density-5745MHz



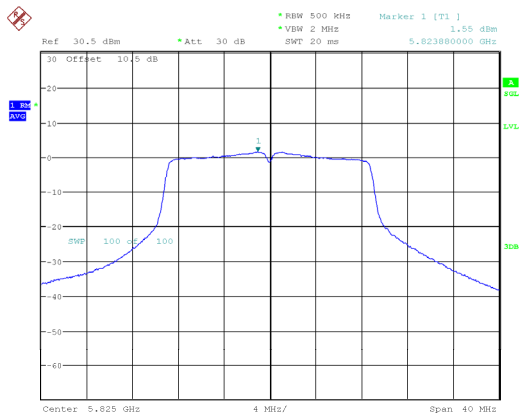
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:32:13

802.11 ac20 mode, Power spectral density-5785MHz

802.11 ac20 mode, Power spectral density-5825MHz



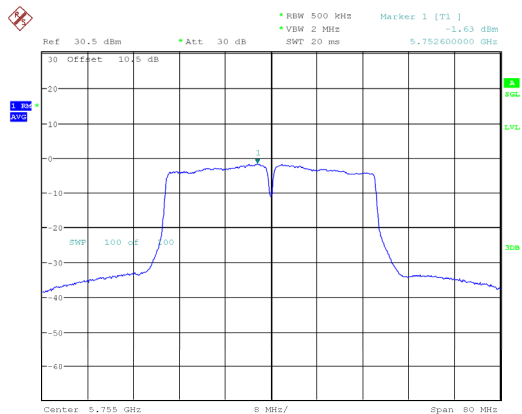
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:35:52



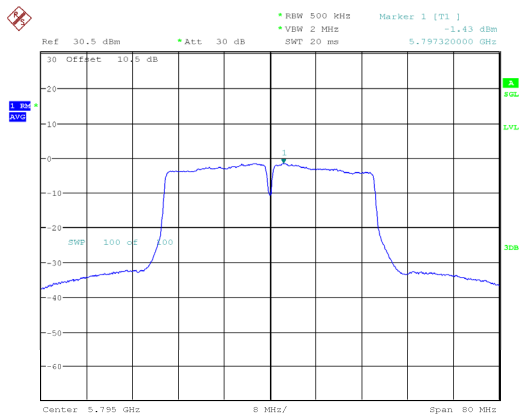
ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:39:47

802.11ac40 mode, Power spectral density-5755MHz

802.11 ac40 mode, Power spectral density-5795MHz

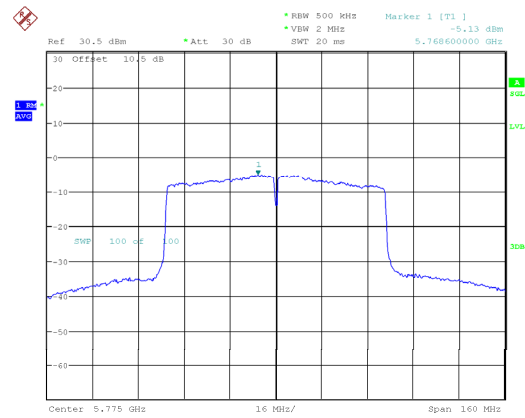


ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:45:51



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:50:59

802.11 ac80 mode, Power spectral density-5775MHz



ProjectNo.:RKSA250411002 Tester:Neil Zhou
Date: 10.JUL.2025 10:56:28

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

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