

FCC PART 15.247

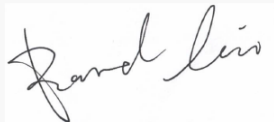
TEST REPORT

For

Beijing InHand Networks Technology Co., Ltd.

Room 501, floor 5, building 3, yard 18, ziyue road chaoyang district, Beijing, China

FCC ID: 2AANYEAP600

Report Type: Original Report	Product Name: Enterprise Access Point
Report Number:	<u>RKSA240119004-00B</u>
Report Date:	<u>2024-06-27</u>
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA240119004-00B	R1V1	2024-06-27	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Beijing InHand Networks Technology Co., Ltd.
Tested Model	EAP600
Product Name	Enterprise Access Point
Power Supply	DC 12V by adapter or 802.3af POE
RF Function:	2.4G Wi-Fi
Maximum Peak Output Power:	802.11b: 17.93 dBm 802.11g: 19.31 dBm 802.11n20: 23.94 dBm 802.11n40: 19.84 dBm 802.11ax20: 25.33 dBm 802.11ax40: 20.42 dBm
Operating Band/Frequency:	2412~2462 MHz(802.11b/g/n/ax20), 2422~2452 MHz(802.11n/ax40)
Channel Number:	11(802.11b/g/n/ax20), 7(802.11n/ax40)
Channel Separation:	5 MHz
Modulation Type:	DSSS, OFDM, OFDMA
Antenna Type:	Stamped metal antenna
★Maximum Antenna Gain:	Chain 0: 2.1 dBi Chain 1: 1.8 dBi

Adapter Information:

Model: KT241120200USL

Input: AC100-240V 50/60Hz 0.8A

Output: 12.0V, 2.0A, 24.0W

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: RKSA240119004-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-01-19.)

Objective

This report is prepared for *Beijing InHand Networks Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions' rules.

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

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and FCC 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel List for Wi-Fi Mode:

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

For 802.11b, 802.11g, 802.11n-HT20, 802.11ax-HEW20 mode, EUT was tested with Channel 1, 6 and 11.
For 802.11n-HT40, 802.11ax-HEW40 mode, EUT was tested with Channel 3, 6 and 9.

Note: 802.11b&802.11g only support SISO mode, 802.11n&802.11ax support MIMO &SISO mode, two antennas have the same power setting level

For Conducted Test:

802.11b & 802.11g&802.11n&802.11ax: each transmit chains were tested

For Radiated Test:

802.11b & 802.11g, SISO for each transmit chain

For 802.11n&802.11ax: MIMO for two transmit chains

The device 802.11ax mode only supports full RU, not partial RU, test with full RU.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test software: QSPR

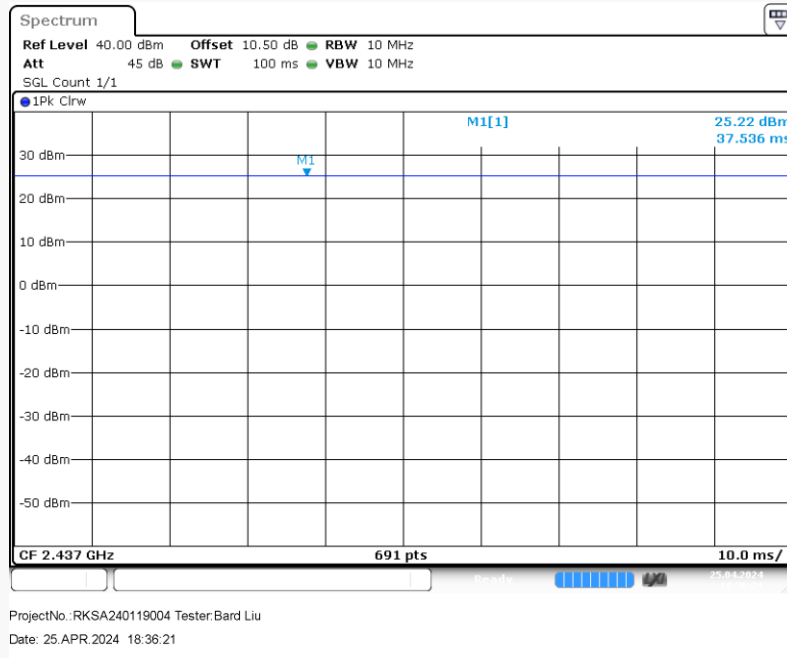
Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data Rate	★Power Level
802.11b	1 Mbps	Default
802.11g	6 Mbps	Default
802.11n-HT20	MCS0	Default
802.11n-HT40	MCS0	Default
802.11ax-HEW20	MCS0	Default
802.11ax-HEW40	MCS0	Default

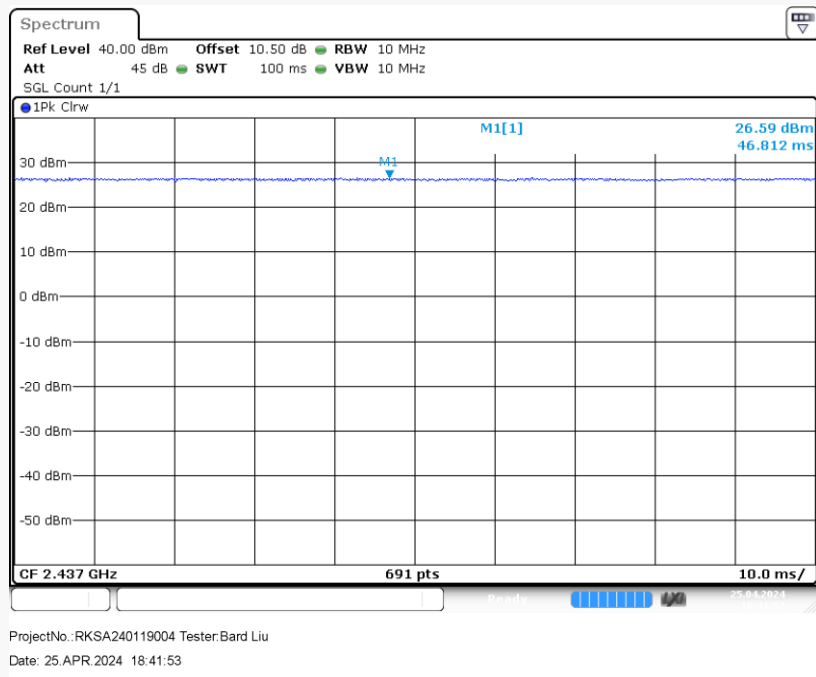
Note: The power level was declared by the applicant.

Duty Cycle:
Chain 0:

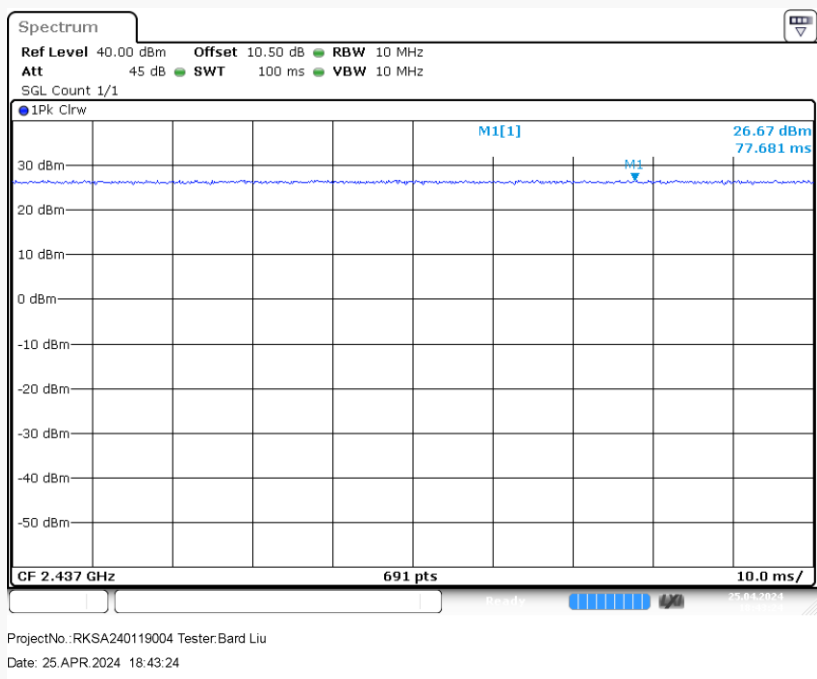
802.11b Mode Middle Channel



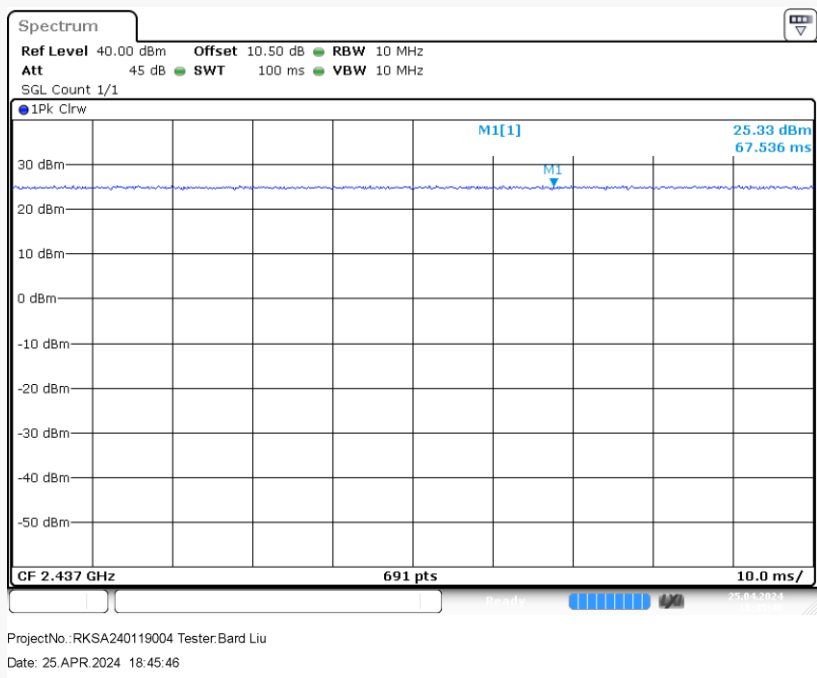
802.11g Mode Middle Channel



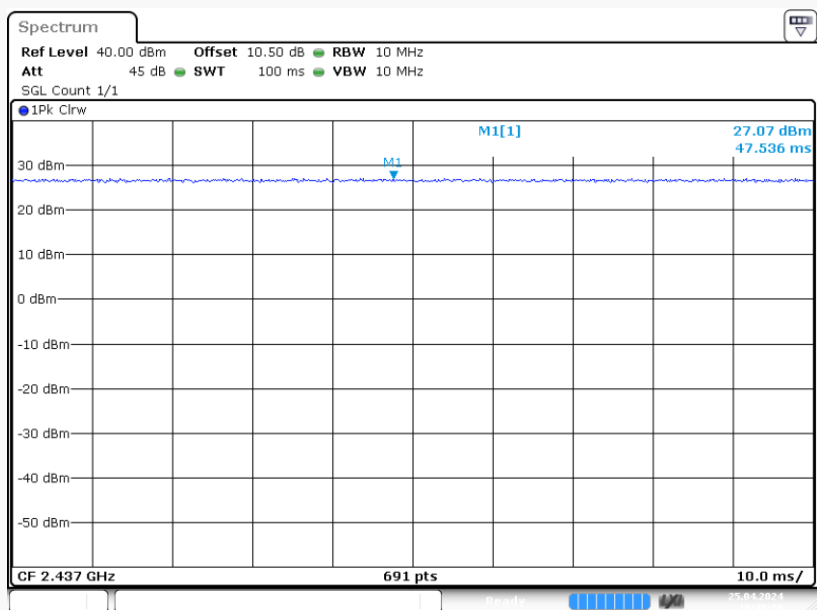
802.11n-HT20 Mode Middle Channel



802.11n-HT40 Mode Middle Channel



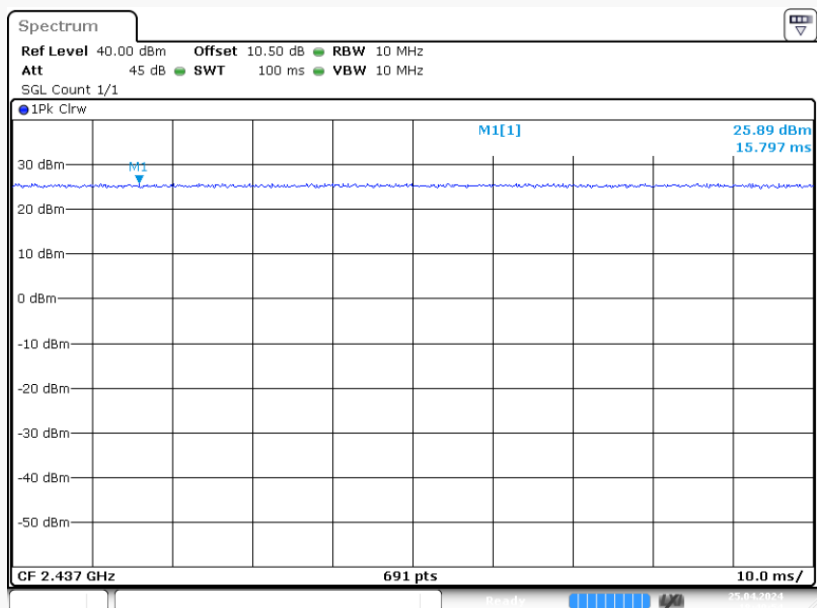
802.11ax-HEW20 Mode Middle Channel



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802.11ax-HEW40 Mode Middle Channel

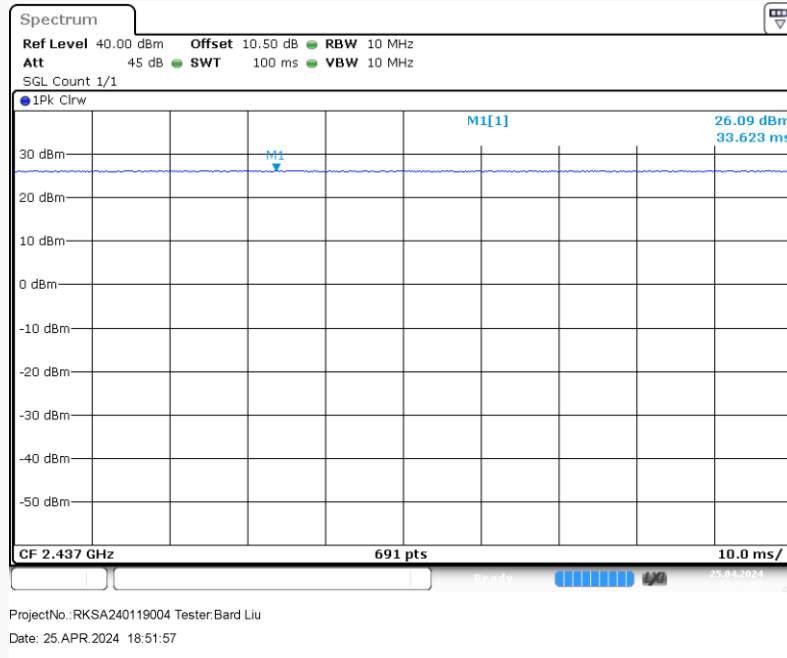


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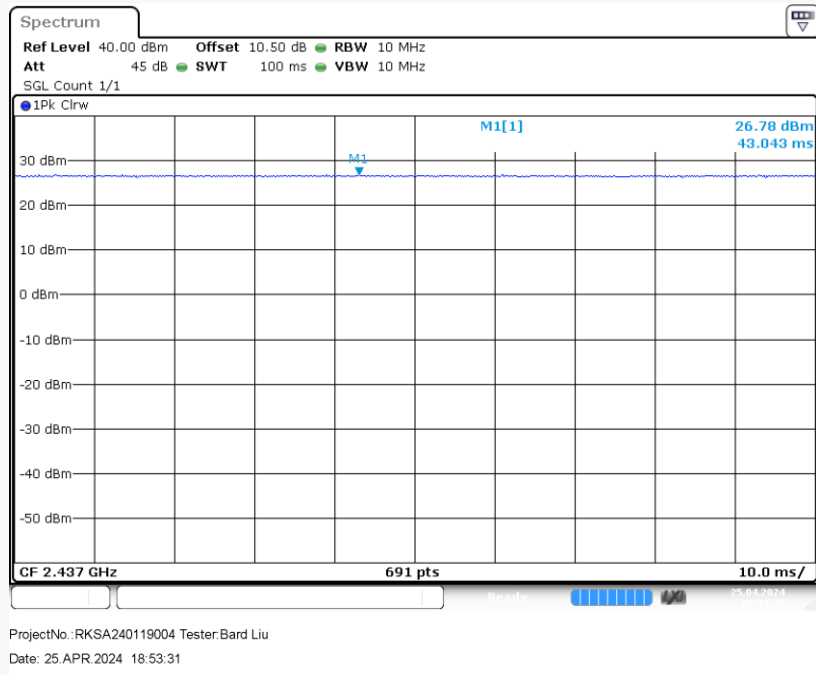
Date: 25.APR.2024 18:49:55

Chain 1:

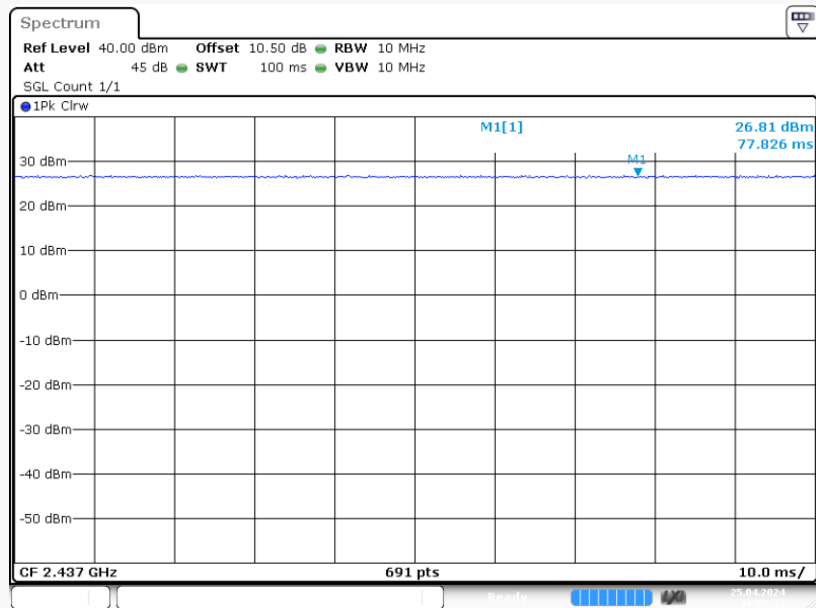
802.11b Mode Middle Channel



802.11g Mode Middle Channel

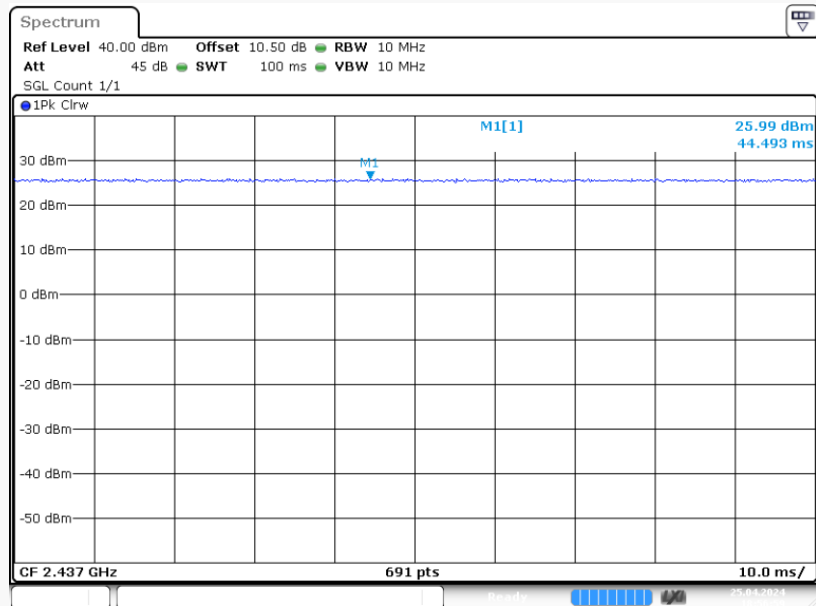


802.11n-HT20 Mode Middle Channel



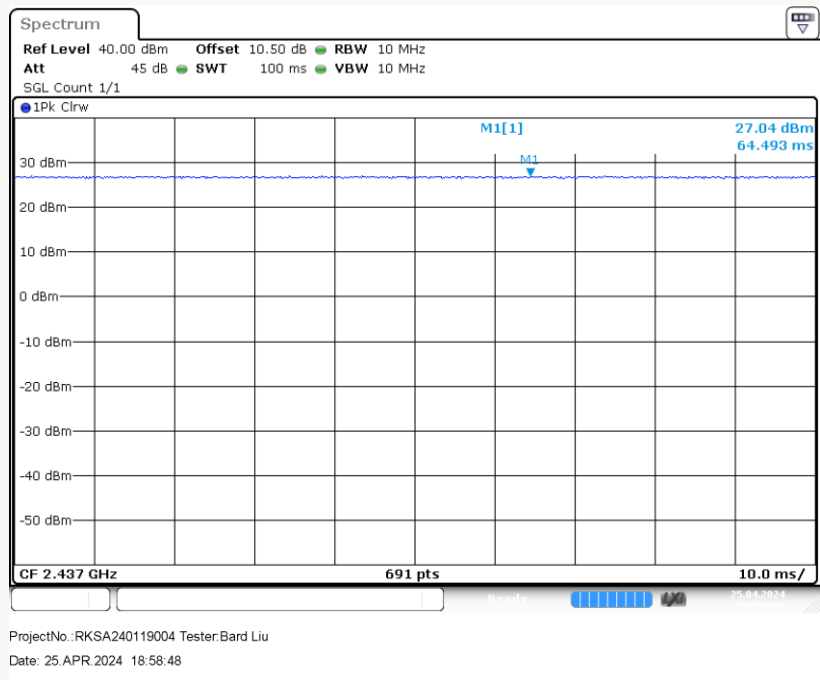
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802.11n-HT40 Mode Middle Channel

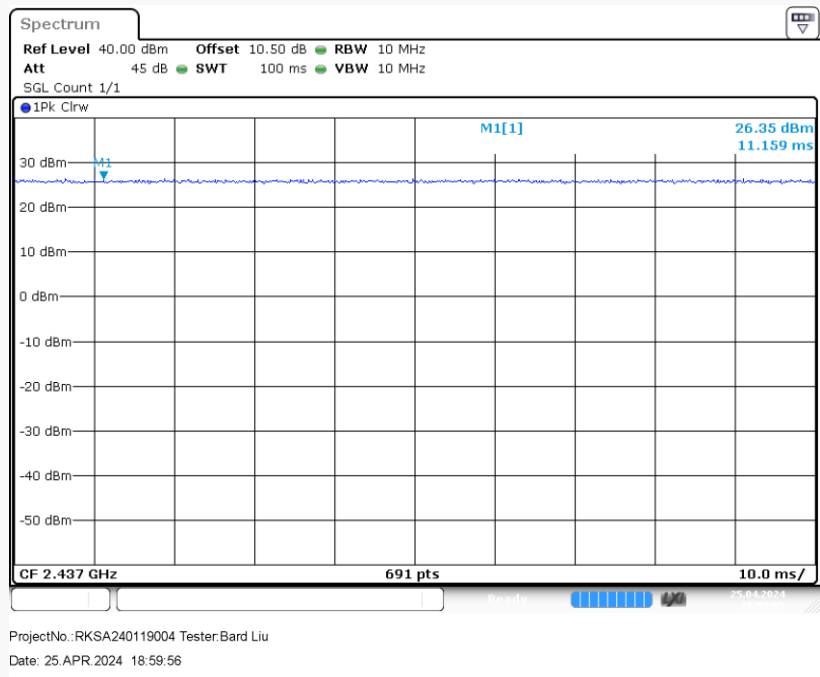


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802.11ax-HEW20 Mode Middle Channel



802.11ax-HEW40 Mode Middle Channel



Chain	Mode	Duty Cycle (%)	Ton(ms)	Ton+off(ms)	10log(1/x)
Chain 0 & Chain 1	802.11b	100	100	100	0
	802.11g	100	100	100	0
	802.11n-HT20	100	100	100	0
	802.11n-HT40	100	100	100	0
	802.11ax-HEW20	100	100	100	0
	802.11ax-HEW40	100	100	100	0

Note: “x” means the Duty Cycle.

Manufacturer	Description	Model	Serial Number
Beijing InHand Networks Technology Co., Ltd.	Router	ER805	RN8052126000252
/	PoE	NPE-5818	740-64157-001
Lenovo	Notebook	ThinkPad T470S	83ECA1B-E1AF-4053-95DE-2E51B8D188D7
Beijing InHand Networks Technology Co., Ltd.	Adapter-2	/	/

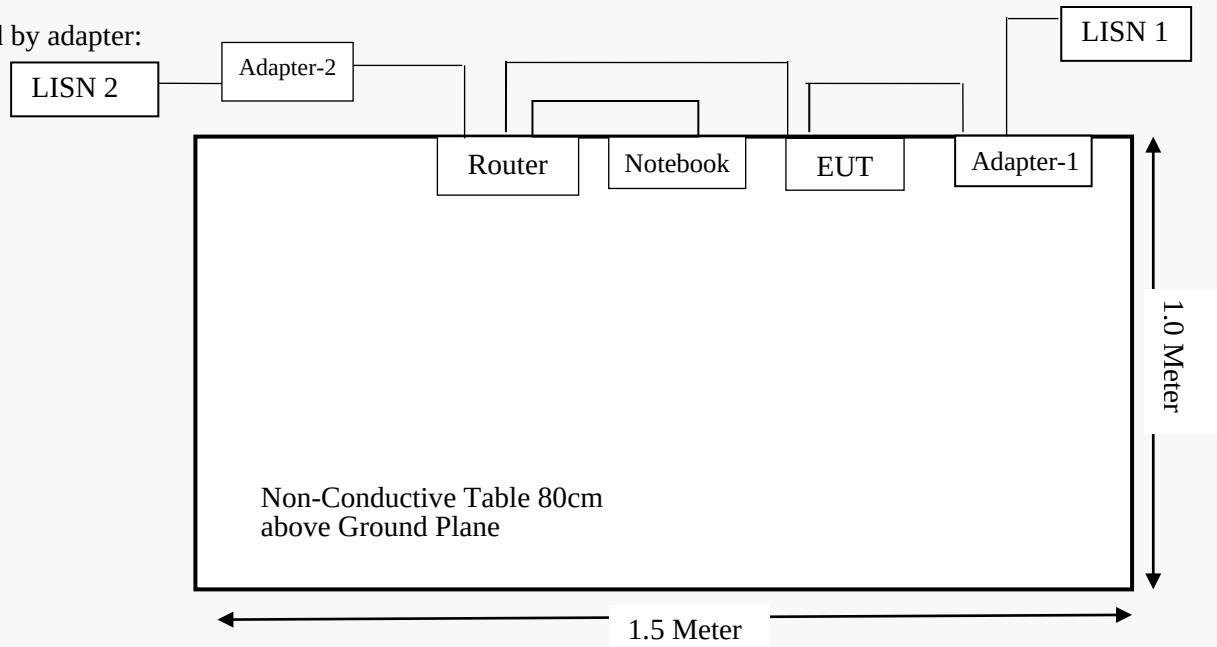
External I/O Cable

Cable Description	Length (m)	From Port	To
Power Cable 1	2.0	Router	Adapter-2
RJ45 cable 1	1.0	Router	Notebook
RJ45 cable 2	2.0	Router	PoE
RJ45 cable 3	2.0	Router	EUT
Power Cable 2	2.0	EUT	Adapter-1
Power Cable 3	1.0	Adapter-1	LISN/AC Source
Power Cable 4	1.0	Adapter-2	LISN/AC Source
RJ45 cable 4	2.0	EUT	PoE
Power Cable 5	1.0	PoE	LISN/AC Source

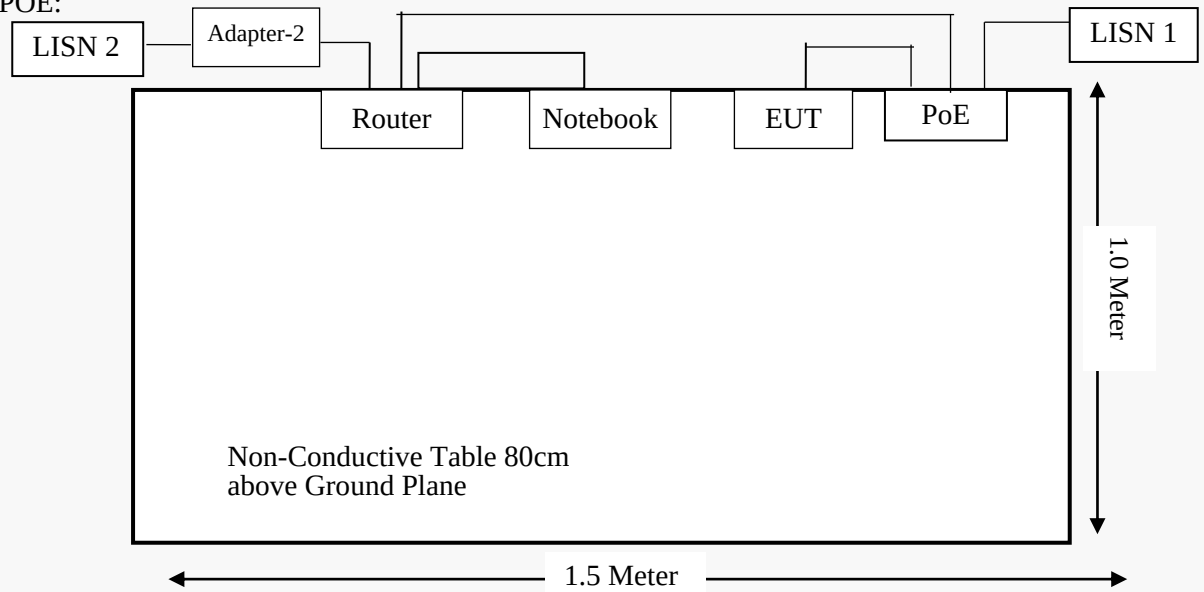
Block Diagram of Test Setup

For Conducted Emissions:

Powered by adapter:

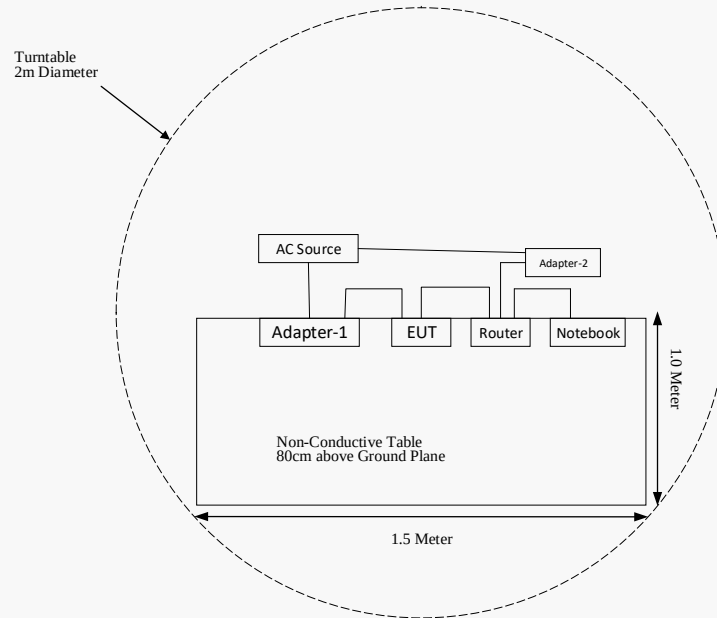


Powered by POE:

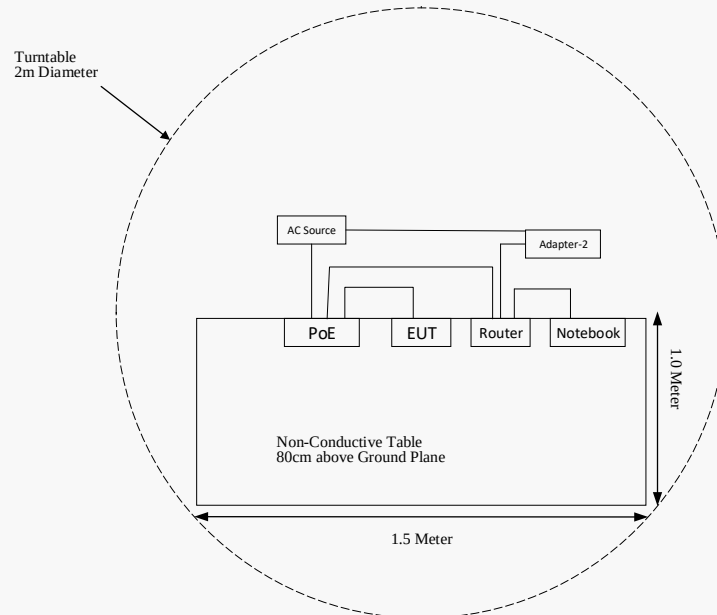


For Radiated Emissions (Below 1GHz):

Powered by adapter:

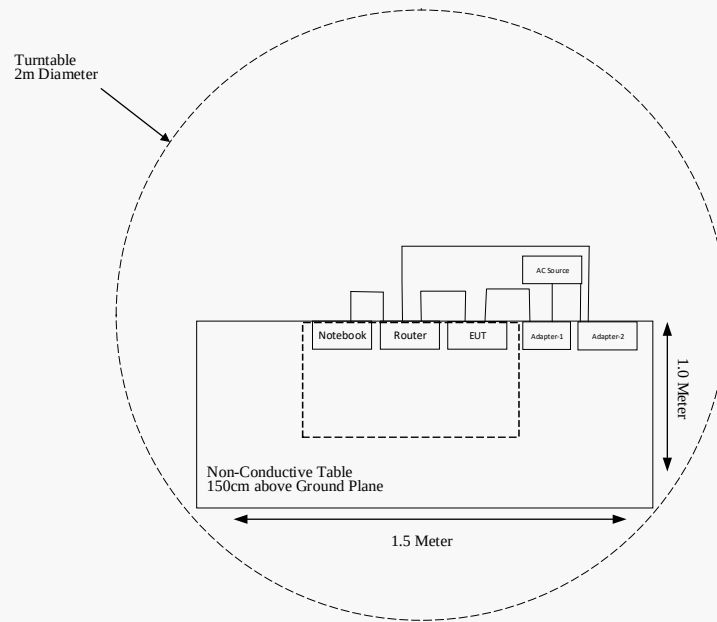


Powered by POE:



For Radiated Emissions (Above 1GHz):

Powered by adapter:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.247(d)	Spurious Emissions at Antenna Port	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247 (I), §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	2023-05-23	2024-05-22
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2023-11-11	2024-11-10
Narda	6dB Attenuator	773-6	10690812-2-1	2023-11-11	2024-11-10
ETS-LINDGREN	Loop Antenna	6512	108100	2023-11-09	2024-11-08
Sonoma Instrument	Pre-amplifier	310N	171205	2023-05-23	2024-05-22
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2023-05-23	2024-05-22
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2023-05-19	2024-05-18
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2023-12-02	2024-12-01
ETS-LINDGREN	Horn Antenna	3116	2516	2023-12-08	2024-12-07
A.H.Systems, inc	Amplifier	PAM-0118P	512	2023-05-23	2024-05-22
A.H.Systems, inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
SELECTOR	Amplifier	EM18G40G	060726	2023-05-23	2024-05-22
SELECTOR	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2023-08-05	2024-08-04
Narda	Attenuator	10dB	010	2023-08-15	2024-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-05-23	2025-05-22
MICRO-COAX	Coaxial Cable	Cable-11	011	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-05-23	2025-05-22
MICRO-COAX	Coaxial Cable	Cable-12	012	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-05-23	2025-05-22
MICRO-COAX	Coaxial Cable	Cable-13	013	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-05-23	2025-05-22

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2023-05-23	2024-05-22
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2024-04-24	2025-04-23
Narda	Attenuator	10dB	010	2023-05-23	2024-05-22
Narda	Attenuator	10dB	010	2024-04-23	2025-04-22
Anritsu	Power Sensor	MA24418A	12621	2023-09-27	2024-09-26
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2023-07-28	2024-07-27
Rohde & Schwarz	LISN	ENV216	101115	2023-05-23	2024-05-22
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-15	015	2023-05-23	2024-05-22

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 §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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

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

Antenna Connector Construction

The EUT has two Stamped metal antennas, which the antenna gain is 2.1dBi and 1.8dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Chain	Antenna Gain	Input impedance
Stamped metal Antenna	Chain 0	2.1dBi	50Ω
	Chain 1	1.8dBi	50Ω

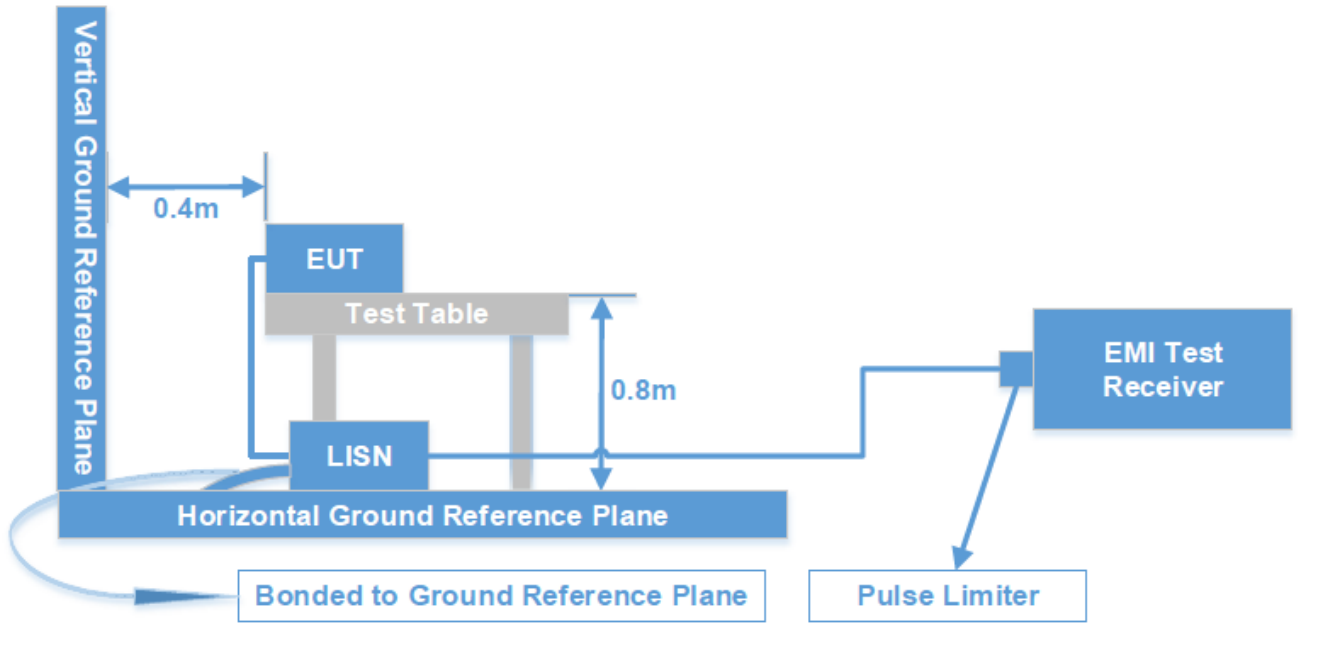
Result: Compliant.

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

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

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

Test Procedure

ANSI C63.10-2013 clause 6.2

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

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

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

Level & Over Limit Calculation

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

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

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

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

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

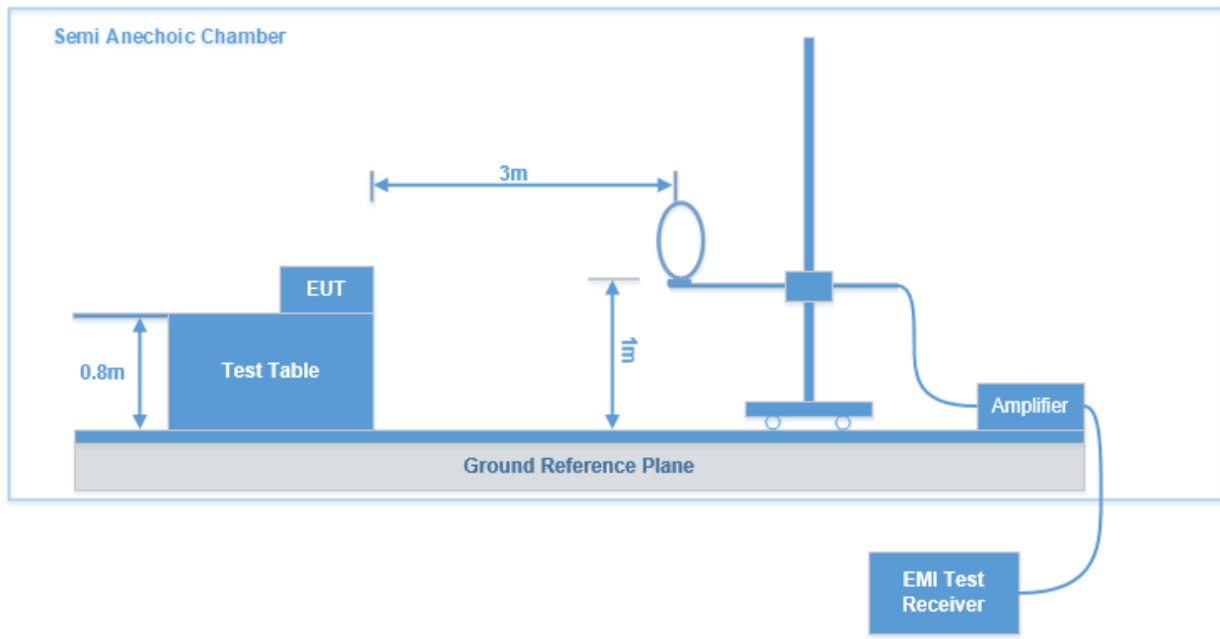
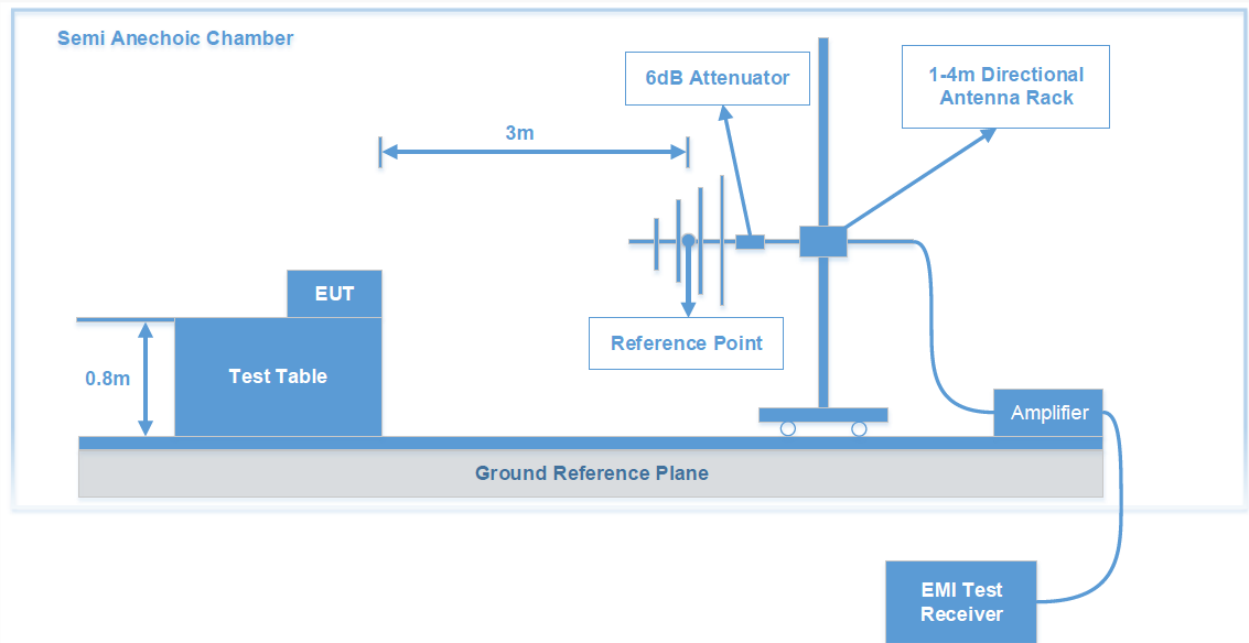
Test Results Summary

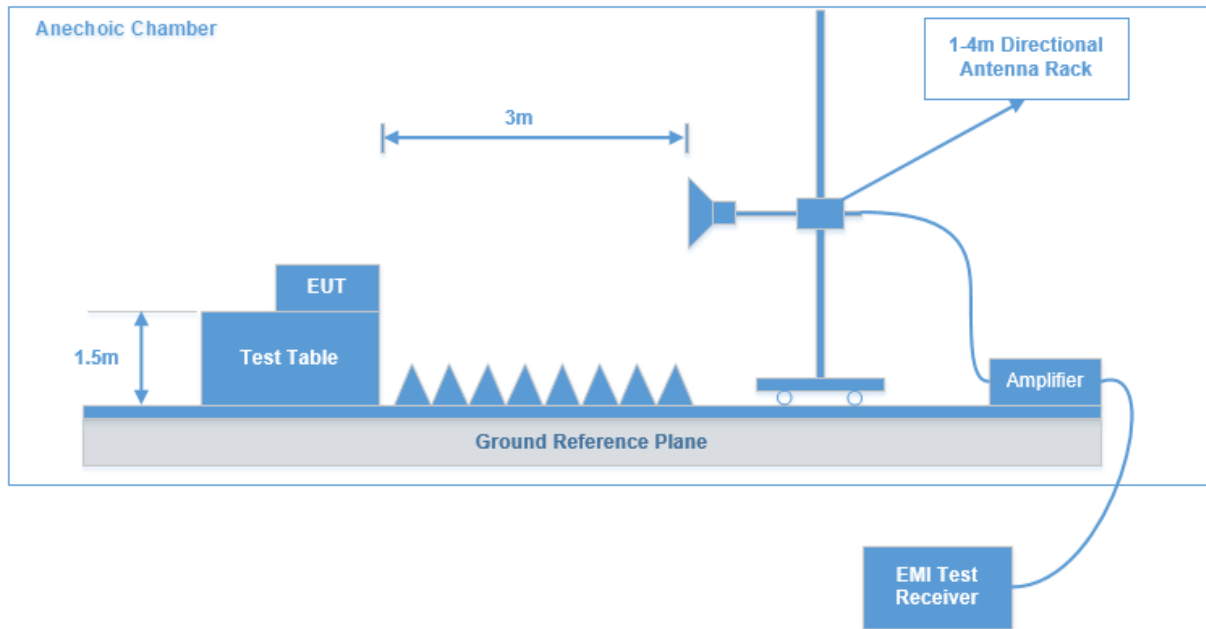
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

Test System Setup**9 kHz-30MHz:****30MHz-1GHz:**

Above 1GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 25 GHz.

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

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

Test Procedure

According to ANSI C63.10-2013 clause 6.5, 6.6 and 6.7.

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 10 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Corrected Amplitude & Margin Calculation

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

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

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

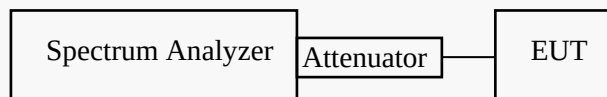
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.8.1

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.



Test Data: See Appendix

FCC §15.247(B) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

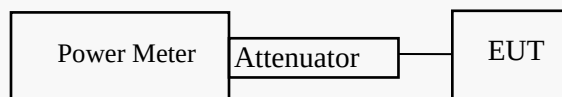
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliant with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

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 §15.247(D) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

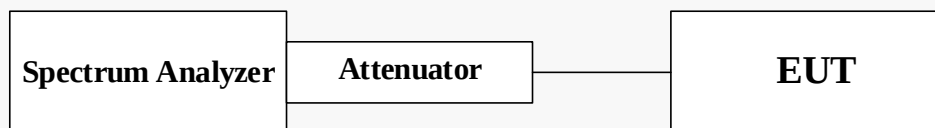
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates Compliant with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2013 sub-clause 6.10.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Test Data: See Appendix

FCC §15.247(E) - POWER SPECTRAL DENSITY

Applicable Standard

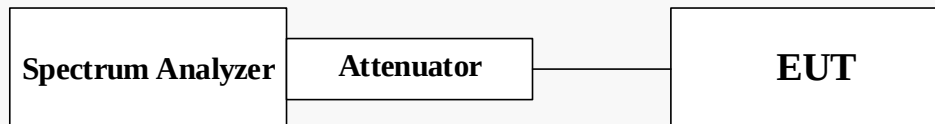
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine Compliant, and it is optional if the maximum conducted (average) output power was used to determine Compliant:

1. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
2. Set the VBW $\geq 3 * \text{RBW}$.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.
9. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data: See Appendix

FCC §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1310, 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	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

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:

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

Calculated Data

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Output Power★		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G WIFI	2412~2462	2.10	1.62	25.50	354.81	20	0.1145	1.0
5G WIFI	5150~5250	5.50	3.55	12.50	17.78	20	0.0126	1.0
	5725-5850	5.20	3.31	18.00	63.10	20	0.0416	1.0

Note:

1. For the above tune up power were declared by the manufacturer.
2. 2.4G Wi-Fi and 5G Wi-Fi cannot transmit simultaneously.

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

APPENDIX - TEST DATA

Environmental Conditions & Test Information

Test Item:	Duty Cycle	AC LINE CONDUCTED EMISSIONS		RADIATED EMISSIONS	
				9kHz - 1GHz	
Test Date:	2024-04-25	2024-04-23	2024-05-08	2024-02-19	2024-04-24
Temperature:	24.3 °C	20.8 °C	22.7 °C	16.0 °C	20.6 °C
Relative Humidity:	47 %	69 %	54 %	55 %	62 %
ATM Pressure:	101.6kPa	101.0kPa	101.8kPa	101.5kPa	101.3kPa
Test Result:	/	Pass	Pass	Pass	Pass
Test Engineer:	Bard Liu	Frank Liu	Frank Liu	Joe Zhang	Leah Li

Test Item:	RADIATED EMISSIONS				6 DB EMISSION BANDWIDTH	
	1 GHz – 25 GHz					
Test Date:	2024-03-06	2024-03-05	2024-05-30	2024-05-27	2024-04-19	2024-04-22
Temperature :	20.3 °C	20.3 °C	20.3 °C	22.5	21.3 °C	21.7 °C
Relative Humidity:	52 %	52 %	52 %	46 %	45 %	43 %
ATM Pressure:	102.0kPa	101.6kPa	102.0 kPa	101.5 kPa	102.3kPa	101.6kPa
Test Result:	Pass	Pass	Pass	Pass	Pass	Pass
Test Engineer:	Peter Wang	Peter Wang	Hugh Wu	Bard Liu	Bard Liu	Bard Liu

Test Item:	OCCUPIED BANDWIDTH		POWER SPECTRAL DENSITY		
Test Date:	2024-04-19	2024-04-22	2024-04-19	2024-04-22	2024-06-19
Temperature:	21.3 °C	21.7 °C	21.3 °C	21.7 °C	22.5 °C
Relative Humidity:	45 %	43 %	45 %	43 %	57 %
ATM Pressure:	102.3kPa	101.6kPa	102.3kPa	101.6kPa	100.4kPa
Test Result:	/		Pass	Pass	Pass
Test Engineer:	Bard Liu	Bard Liu	Bard Liu	Bard Liu	Bard Liu

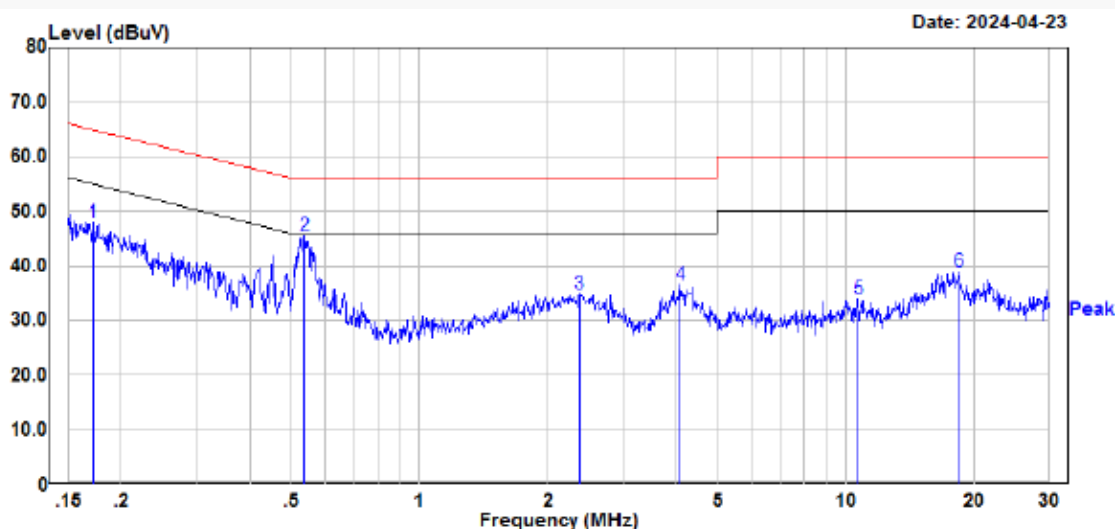
Test Item:	TRANSMITTER OUTPUT POWER MEASUREMENT	OUT OF BAND EMISSIONS		
Test Date:	2024-04-25	2024-04-25	2024-04-19	2024-04-22
Temperature:	24.3 °C	24.3 °C	21.3 °C	21.7 °C
Relative Humidity:	47 %	47 %	45 %	43 %
ATM Pressure:	101.6kPa	101.6kPa	102.3kPa	101.6kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Bard Liu	Bard Liu	Bard Liu	Bard Liu

AC LINE CONDUCTED EMISSIONS

Powered by adapter:

EUT operation mode: Transmitting in maximum output power mode 802.11ax20 mode Low channel

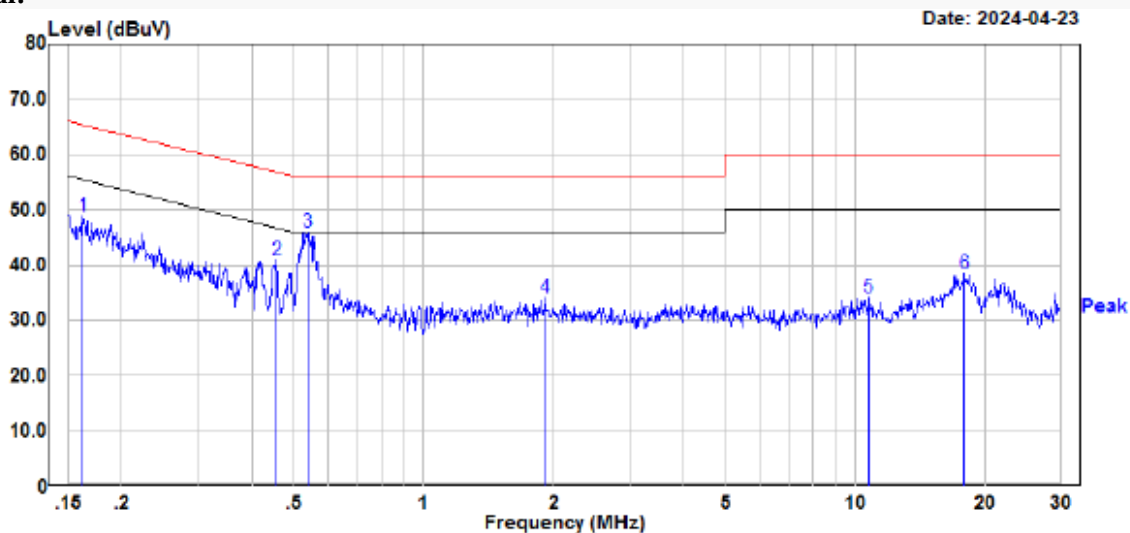
Line:



Site : CE
Condition : FCC part 15.207
: DET:Peak
Project No. : RKSA240119004
Model : EAP600
Phase : L
Voltage : 120V/60Hz
Mode : 2.4G WIFI
Test Equipment : ENV216,ESR
Temperature : 20.8°C
Humidity : 69%
Atmospheric pressure: 101.0kPa
Test Engineer : Frank Liu

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.172	27.85	19.92	47.77	64.88	-17.11	Peak
2	0.537	25.34	20.10	45.44	56.00	-10.56	Peak
3	2.373	14.61	20.22	34.83	56.00	-21.17	Peak
4	4.086	16.16	20.28	36.44	56.00	-19.56	Peak
5	10.691	13.90	20.00	33.90	60.00	-26.10	Peak
6	18.407	19.01	19.82	38.83	60.00	-21.17	Peak

Neutral:

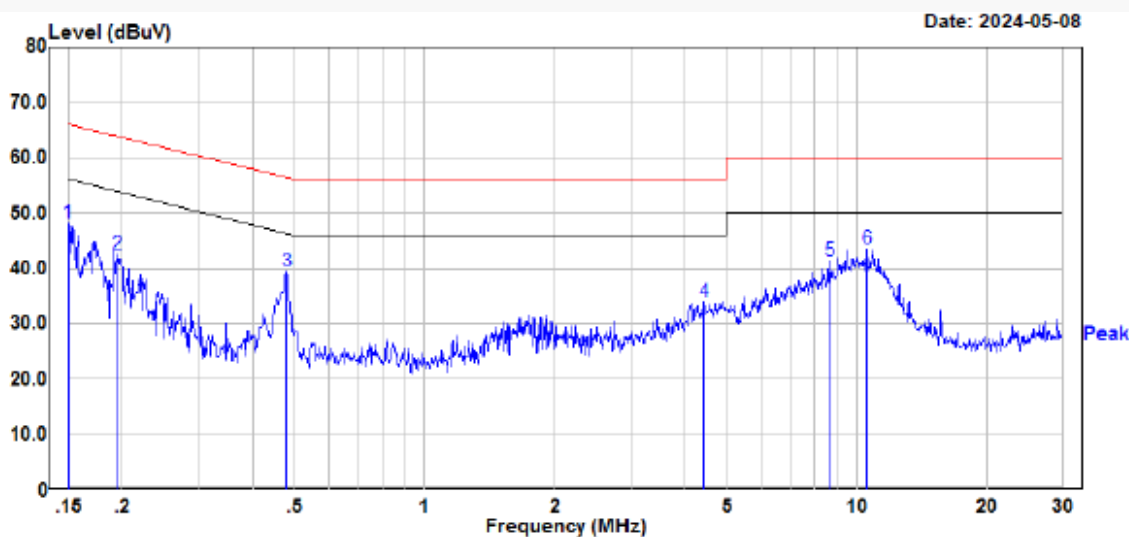


Site : CE
Condition : FCC part 15.207
: DET:Peak
Project No. : RKSA240119004
Model : EAP600
Phase : N
Voltage : 120V/60Hz
Mode : 2.4G WIFI
Test Equipment : ENV216,ESR
Temperature : 20.8℃
Humidity : 69%
Atmospheric pressure: 101.0kPa
Test Engineer : Frank Liu

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.162	28.85	19.90	48.75	65.34	-16.59	Peak
2	0.456	20.78	20.09	40.87	56.77	-15.90	Peak
3	0.540	25.92	20.10	46.02	56.00	-9.98	Peak
4	1.915	13.94	20.18	34.12	56.00	-21.88	Peak
5	10.745	14.22	19.99	34.21	60.00	-25.79	Peak
6	17.865	18.71	19.81	38.52	60.00	-21.48	Peak

Powered by POE:

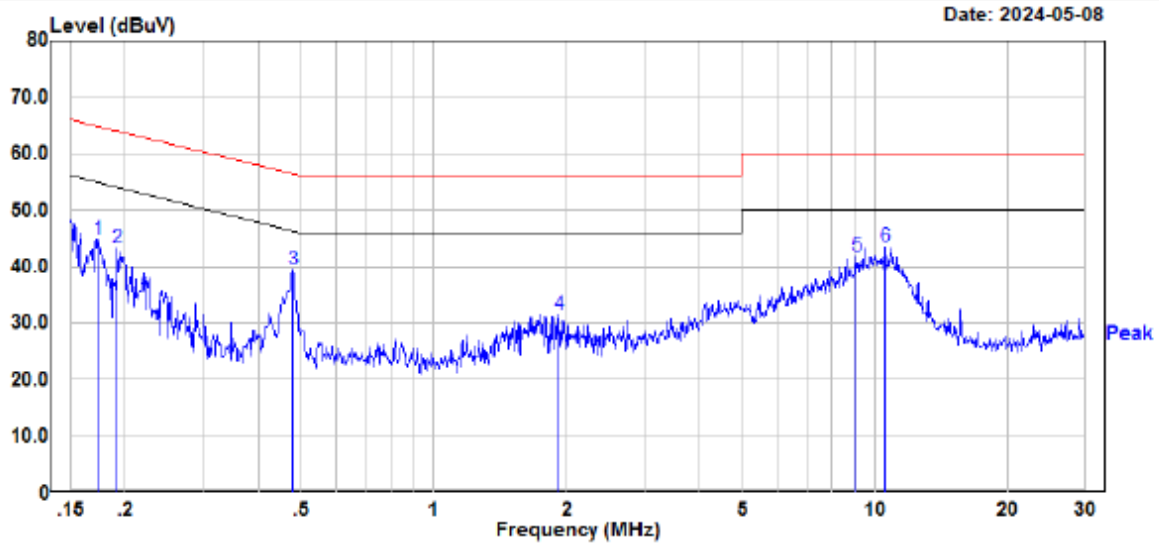
Line:



Site : CE
Condition : FCC part 15.207
: DET:Peak
Project No. : RKSA240119004
Model : EAP600
Phase : L
Voltage : 120V/60Hz
Mode : 2.4G WIFI
Test Equipment : ENV216,ESR
Temperature : 22.7°C
Humidity : 54%
Atmospheric pressure: 101.8kPa
Test Engineer : Frank Liu

	Freq	Read		Level	Limit	Over	Remark
		Level	Factor		Line	Limit	
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	28.18	19.89	48.07	66.00	-17.93	Peak
2	0.194	22.57	19.94	42.51	63.85	-21.34	Peak
3	0.479	19.18	20.11	39.29	56.35	-17.06	Peak
4	4.425	13.49	20.29	33.78	56.00	-22.22	Peak
5	8.629	21.20	20.12	41.32	60.00	-18.68	Peak
6	10.533	23.62	20.01	43.63	60.00	-16.37	Peak

Neutral:



Site : CE
Condition : FCC part 15.207
: DET:Peak
Project No. : RKSA240119004
Model : EAP600
Phase : N
Voltage : 120V/60Hz
Mode : 2.4G WIFI
Test Equipment : ENV216,ESR
Temperature : 22.7°C
Humidity : 54%
Atmospheric pressure: 101.8kPa
Test Engineer : Frank Liu

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.173	24.79	19.92	44.71	64.80	-20.09	Peak
2	0.191	23.33	19.94	43.27	63.97	-20.70	Peak
3	0.479	19.18	20.11	39.29	56.35	-17.06	Peak
4	1.925	11.16	20.19	31.35	56.00	-24.65	Peak
5	9.070	21.65	20.09	41.74	60.00	-18.26	Peak
6	10.533	23.62	20.01	43.63	60.00	-16.37	Peak

SPURIOUS EMISSIONS

Test Result: Compliant

EUT operation mode: Transmitting

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

Powered by adapter:

9 kHz-30MHz (Transmitting in maximum output power mode and channel)

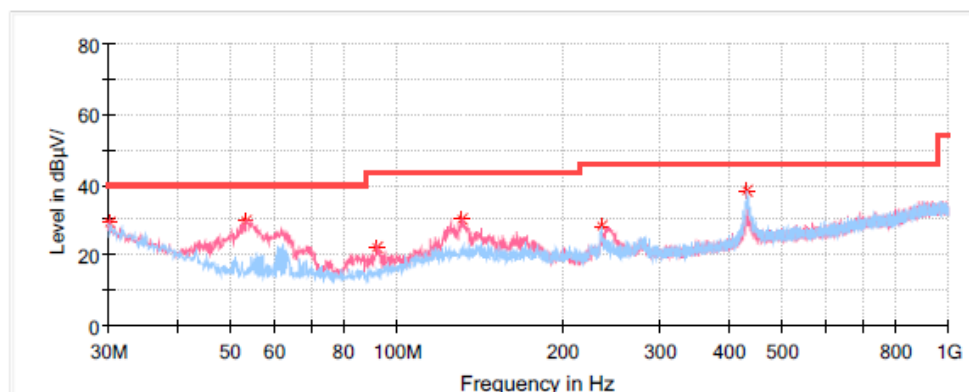
The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

30MHz-1GHz (Transmitting in maximum output power mode 802.11ax20) :

Low channel: 2412MHz

Common Information

Project No:	RKSA240119004
EUT Model:	EAP600
Test Mode:	2.4G WIFI
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESCI, JB3, 310N
Temperature:	16.0°C
Humidity:	55%
Barometric Pressure:	101.5kPa
Test Engineer:	Joe Zhang
Test Date:	2024/2/19

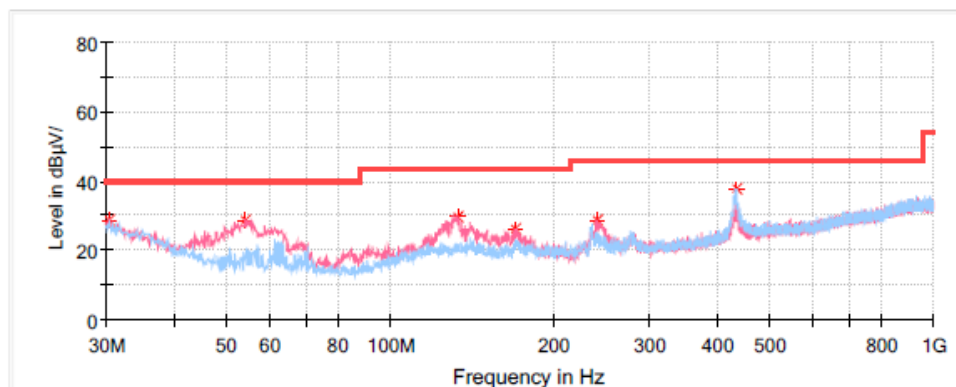


Critical Freqs

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	29.43	40.00	10.57	V	-4.5
53.522500	29.66	40.00	10.34	V	-17.0
92.443750	21.96	43.50	21.54	V	-16.5
131.607500	30.20	43.50	13.30	V	-11.4
234.670000	27.93	46.00	18.07	H	-13.2
431.943750	38.08	46.00	7.92	H	-7.7

Middle channel: 2437MHz**Common Information**

Project No: RKSA240119004
EUT Model: EAP600
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESCI, JB3, 310N
Temperature: 16.0°C
Humidity: 55%
Barometric Pressure: 101.5kPa
Test Engineer: Joe Zhang
Test Date: 2024/2/19

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	28.91	40.00	11.09	V	-4.7
54.250000	28.44	40.00	11.56	V	-17.0
132.820000	29.87	43.50	13.63	V	-11.4
170.286250	26.31	43.50	17.19	V	-12.9
240.853750	28.62	46.00	17.38	V	-13.0
434.005000	37.60	46.00	8.40	H	-7.6

High Channel: 2462MHz

Common Information

Project No:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Barometric Pressure:

Test Engineer:

Test Date:

RKSA240119004

EAP600

2.4G WIFI

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESCI, JB3, 310N

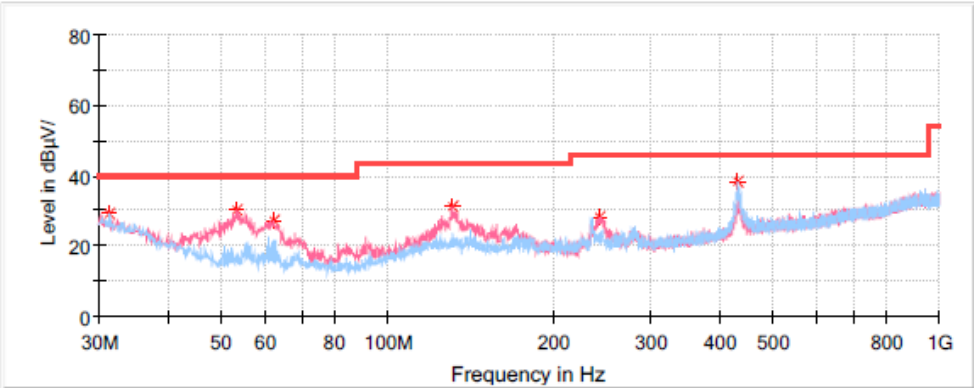
16.0℃

55%

101.5kPa

Joe Zhang

2024/2/19



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.455000	28.97	40.00	11.03	H	-5.4
53.522500	30.04	40.00	9.96	V	-17.0
62.373750	26.94	40.00	13.06	V	-17.3
131.001250	31.05	43.50	12.45	V	-11.4
241.702500	28.05	46.00	17.95	V	-12.9
432.186250	37.99	46.00	8.01	H	-7.7

Powered by POE:

9 kHz-30MHz (Transmitting in maximum output power mode and channel)

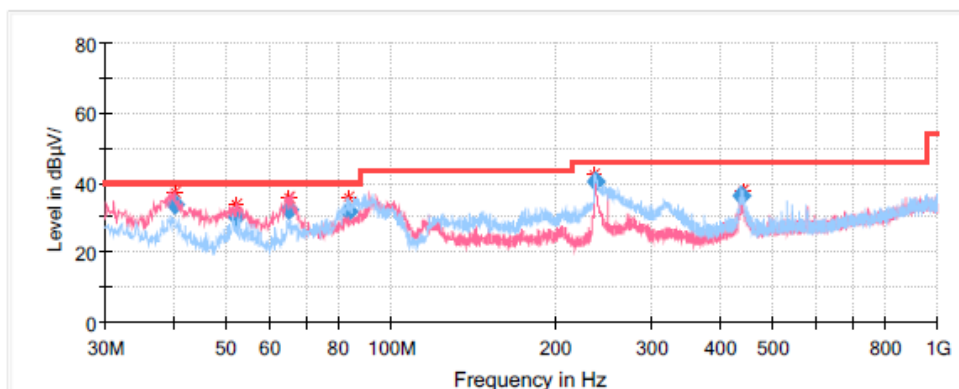
The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

30MHz-1GHz (Transmitting in maximum output power mode 802.11ax20):

Low channel: 2412MHz

Common Information

Project No:	RKSA240119004
EUT Model:	EAP600
Test Mode:	2.4G WIFI
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESCI, JB3, 310N
Temperature:	20.6°C
Humidity:	62%
Barometric Pressure:	101.3kPa
Test Engineer:	Leah Li
Test Date:	2024/4/24



Final Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
40.300000	33.86	40.00	6.14	V	-11.3
52.310000	30.06	40.00	9.94	V	-16.9
64.920000	32.24	40.00	7.76	V	-17.1
83.830000	31.65	40.00	8.35	H	-17.4
236.850000	40.04	46.00	5.96	H	-13.1
438.910150	36.06	46.00	9.94	H	-7.5

Middle channel: 2437MHz

Common Information

Project No:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Barometric Pressure:

Test Engineer:

Test Date:

RKSA240119004

EAP600

2.4G WIFI

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESCI, JB3, 310N

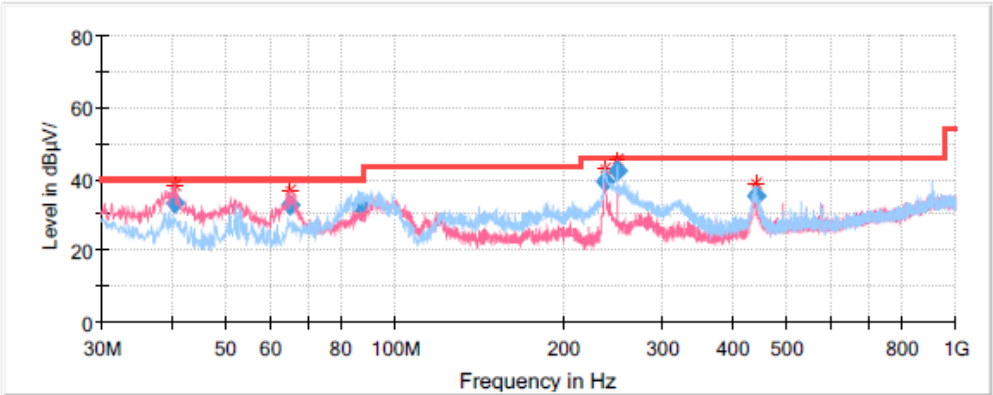
20.6℃

62%

101.3kPa

Leah Li

2024/4/24



Final Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
40.700550	33.29	40.00	6.71	V	-11.6
64.996550	32.60	40.00	7.40	V	-17.1
87.005550	32.86	40.00	7.14	H	-17.3
236.629700	39.48	46.00	6.52	H	-13.1
250.014100	42.07	46.00	3.93	H	-12.7
439.813850	35.46	46.00	10.54	H	-7.5

High Channel: 2462MHz

Common Information

Project No:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Barometric Pressure:

Test Engineer:

Test Date:

RKSA240119004

EAP600

2.4G WIFI

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESCI、JB3、310N

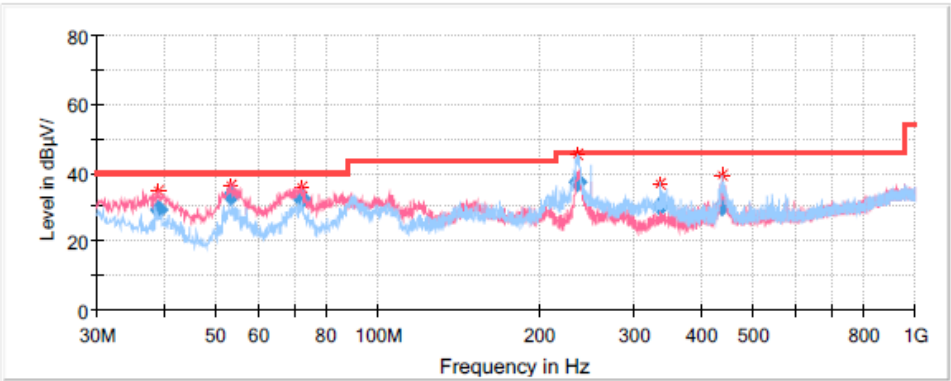
20.6℃

62%

101.3kPa

Leah Li

2024/4/24



Final Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
39.210000	29.25	40.00	10.75	V	-10.2
53.280000	33.23	40.00	6.77	V	-16.9
72.070000	32.40	40.00	7.60	V	-16.9
235.760000	37.06	46.00	8.94	H	-13.1
335.550000	30.27	46.00	15.73	H	-10.1
438.730000	30.38	46.00	15.62	H	-7.5

Powered by adapter:

1GHz-18GHz:

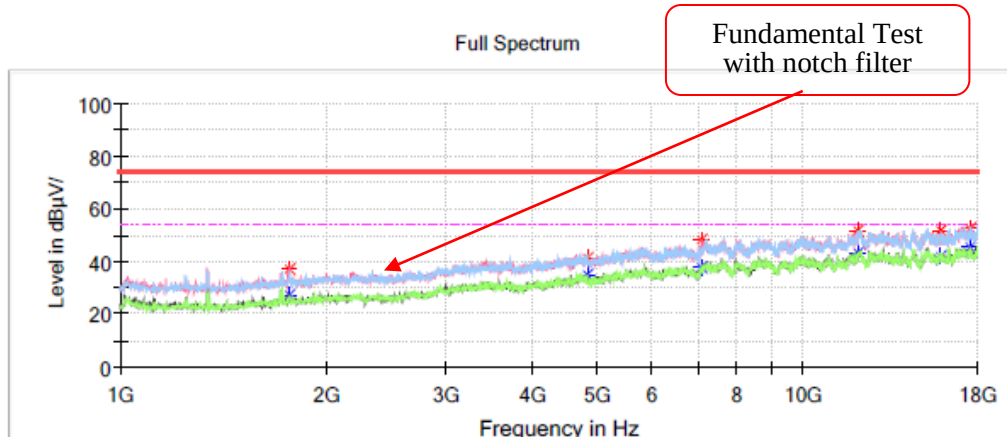
802.11b Mode:

Chain 0:

Low Channel: 2412MHz

Common Information

Project No.: RKSA240119004
 Test Mode: 802.11b Mode
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Test Engineer: Klein Zhu

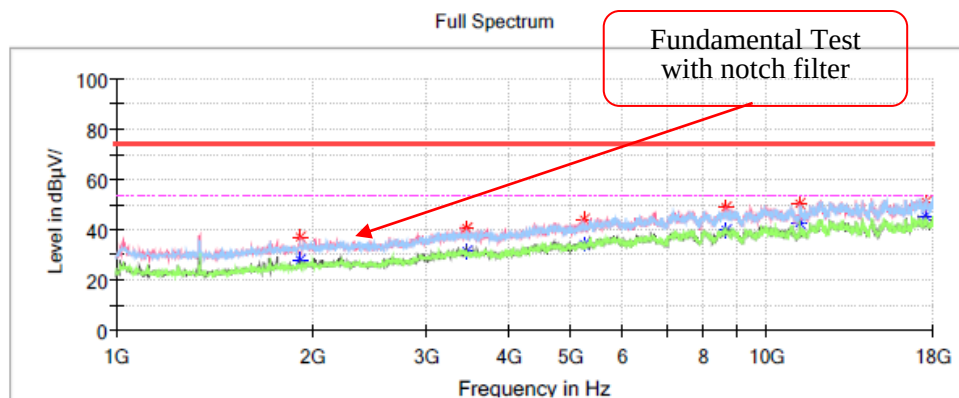


Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1765.000000	36.72	---	74.00	37.28	V	-13.1
1765.000000	---	27.24	54.00	26.76	V	-13.1
4823.300000	---	35.23	54.00	18.77	H	-3.1
4823.300000	41.49	---	74.00	32.51	H	-3.1
7111.500000	48.21	---	74.00	25.79	V	2.9
7111.500000	---	37.66	54.00	16.34	V	2.9
12056.800000	51.90	---	74.00	22.10	H	9.0
12056.800000	---	43.39	54.00	10.61	H	9.0
15875.000000	---	41.89	54.00	12.11	V	9.5
15875.000000	51.86	---	74.00	22.14	V	9.5
17609.000000	52.73	---	74.00	21.27	V	11.6
17609.000000	---	45.59	54.00	8.41	V	11.6

Middle Channel: 2437MHz**Common Information**

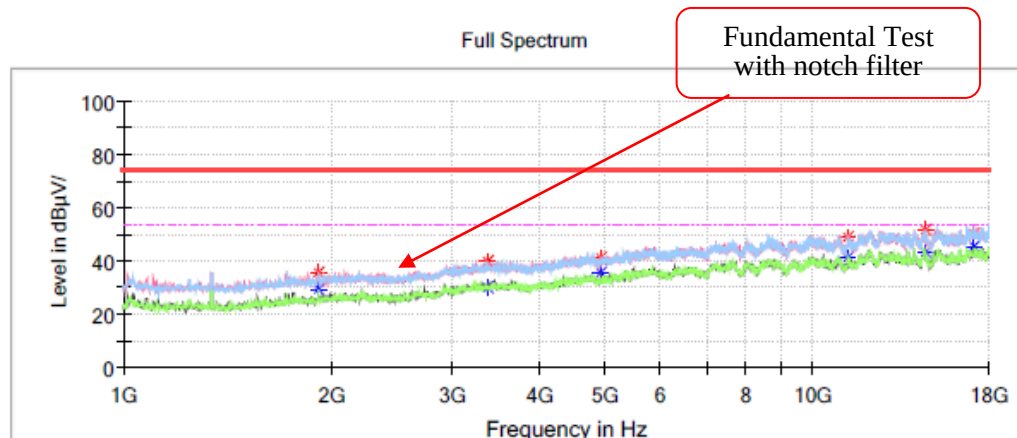
Project No.: RKSA240119004
 Test Mode: 802.11b Mode
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Test Engineer: Klein Zhu

**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)
1914.600000	---	27.69	54.00	26.31	V	-12.3
1914.600000	37.10	---	74.00	36.90	V	-12.3
3465.000000	40.32	---	74.00	33.68	V	-6.5
3465.000000	---	31.49	54.00	22.51	V	-6.5
5251.700000	---	34.22	54.00	19.78	H	-1.4
5251.700000	44.22	---	74.00	29.78	H	-1.4
8663.600000	---	39.69	54.00	14.31	V	5.4
8663.600000	48.92	---	74.00	25.08	V	5.4
11201.700000	---	42.32	54.00	11.68	V	7.9
11201.700000	50.33	---	74.00	23.67	V	7.9
17559.700000	50.80	---	74.00	23.20	V	11.6
17559.700000	---	45.56	54.00	8.44	V	11.6

High Channel: 2462MHz**Common Information**

Project No.: RKSA240119004
 Test Mode: 802.11b Mode
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Test Engineer: Klein Zhu

**Critical Freqs**

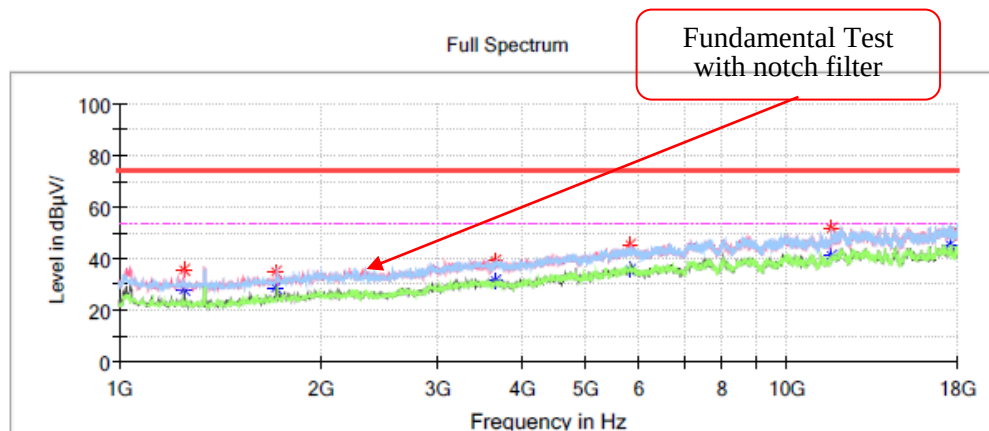
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1916.300000	35.85	---	74.00	38.15	H	-12.2
1916.300000	---	29.36	54.00	24.64	H	-12.2
3373.200000	40.06	---	74.00	33.94	H	-6.9
3373.200000	---	30.23	54.00	23.77	H	-6.9
4923.600000	41.35	---	74.00	32.65	V	-2.7
4923.600000	---	35.60	54.00	18.40	V	-2.7
11201.700000	49.09	---	74.00	24.91	H	7.9
11201.700000	---	41.56	54.00	12.44	H	7.9
14547.300000	52.01	---	74.00	21.99	H	9.4
14547.300000	---	43.69	54.00	10.31	H	9.4
17156.800000	50.26	---	74.00	23.74	V	12.0
17156.800000	---	45.25	54.00	8.75	V	12.0

Chain 1:

Low Channel: 2412MHz

Common Information

Project No.: RKSA240119004
 Test Mode: 802.11b Mode
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Test Engineer: Klein Zhu

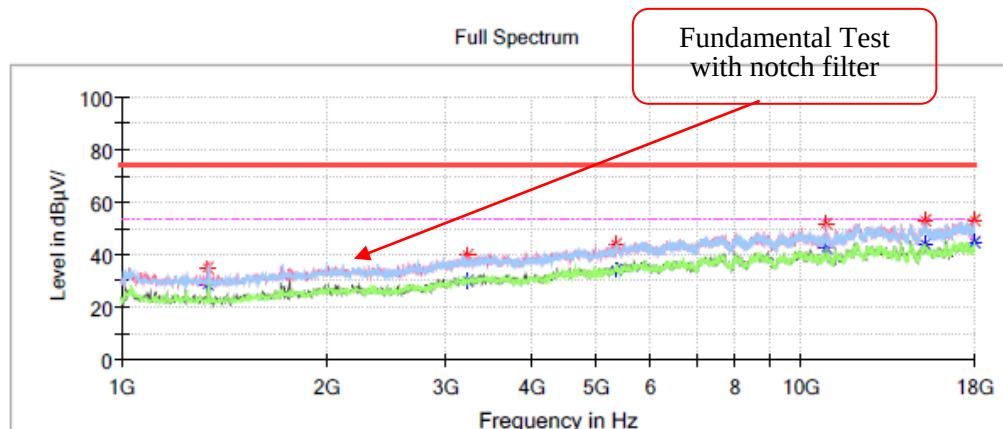


Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1248.200000	35.50	---	74.00	38.50	V	-15.1
1248.200000	---	28.20	54.00	25.80	V	-15.1
1715.700000	34.68	---	74.00	39.32	V	-13.4
1715.700000	---	28.60	54.00	25.40	V	-13.4
3646.900000	38.91	---	74.00	35.09	V	-6.2
3646.900000	---	31.13	54.00	22.87	V	-6.2
5834.800000	45.32	---	74.00	28.68	H	-0.1
5834.800000	---	35.57	54.00	18.43	H	-0.1
11657.300000	51.87	---	74.00	22.13	V	8.9
11657.300000	---	41.48	54.00	12.52	V	8.9
17592.000000	49.67	---	74.00	24.33	H	11.6
17592.000000	---	45.35	54.00	8.65	H	11.6

Middle Channel: 2437MHz**Common Information**

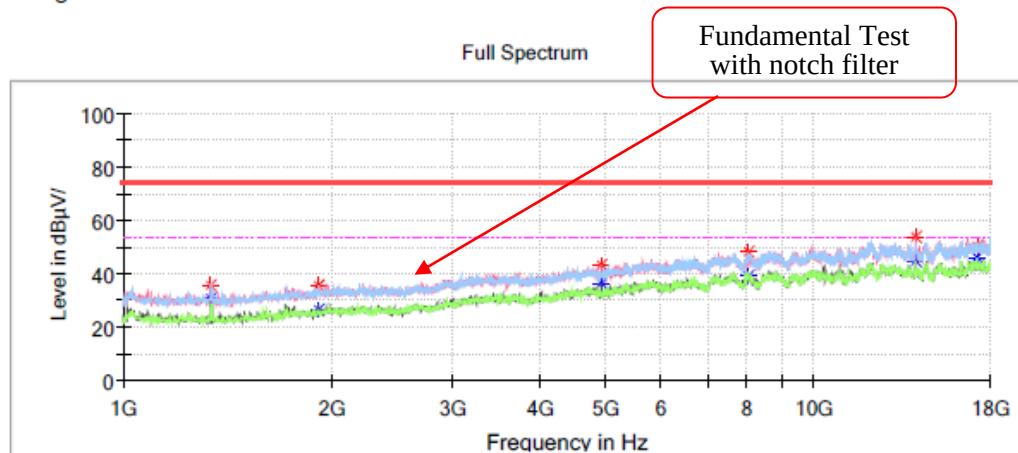
Project No.: RKSA240119004
 Test Mode: 802.11b Mode
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Test Engineer: Klein Zhu

**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)
1340.000000	35.02	---	74.00	38.98	V	-15.0
1340.000000	---	28.81	54.00	25.19	V	-15.0
3225.300000	39.95	---	74.00	34.05	V	-7.5
3225.300000	---	30.21	54.00	23.79	V	-7.5
5331.600000	44.34	---	74.00	29.66	H	-1.0
5331.600000	---	34.44	54.00	19.56	H	-1.0
10861.700000	52.00	---	74.00	22.00	H	7.3
10861.700000	---	42.95	54.00	11.05	H	7.3
15205.200000	---	43.77	54.00	10.23	V	9.5
15205.200000	53.04	---	74.00	20.96	V	9.5
17998.300000	---	45.07	54.00	8.93	V	12.0
17998.300000	53.02	---	74.00	20.98	V	12.0

High Channel: 2462MHz**Common Information**

Project No.: RKSA240119004
 Test Mode: 802.11b Mode
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Test Engineer: Klein Zhu

**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)
1340.000000	35.93	---	74.00	38.07	V	-15.0
1340.000000	---	30.52	54.00	23.48	V	-15.0
1916.300000	---	26.74	54.00	27.26	H	-12.2
1916.300000	35.52	---	74.00	38.48	H	-12.2
4923.600000	43.15	---	74.00	30.85	V	-2.7
4923.600000	---	36.23	54.00	17.77	V	-2.7
8015.900000	---	39.09	54.00	14.91	H	4.0
8015.900000	48.16	---	74.00	25.84	H	4.0
14005.000000	53.76	---	74.00	20.24	V	9.8
14005.000000	---	44.63	54.00	9.37	V	9.8
17211.200000	50.41	---	74.00	23.59	H	12.0
17211.200000	---	45.81	54.00	8.19	H	12.0

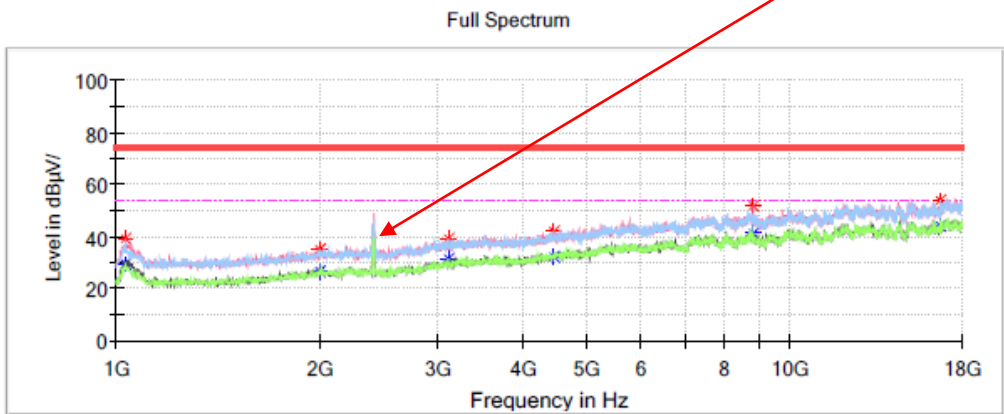
802.11g Mode:
Chain 0:

Low Channel: 2412MHz

Common Information

Project No.:	RKSA240119004
EUT Model:	EAP600
Test Mode:	802.11g Mode
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Temperature:	20.3°C
Humidity:	52%
Atmospheric pressure:	102.0kPa
Test Engineer:	Hugh Wu
Test Date:	2024/5/30

Fundamental Test
with notch filter



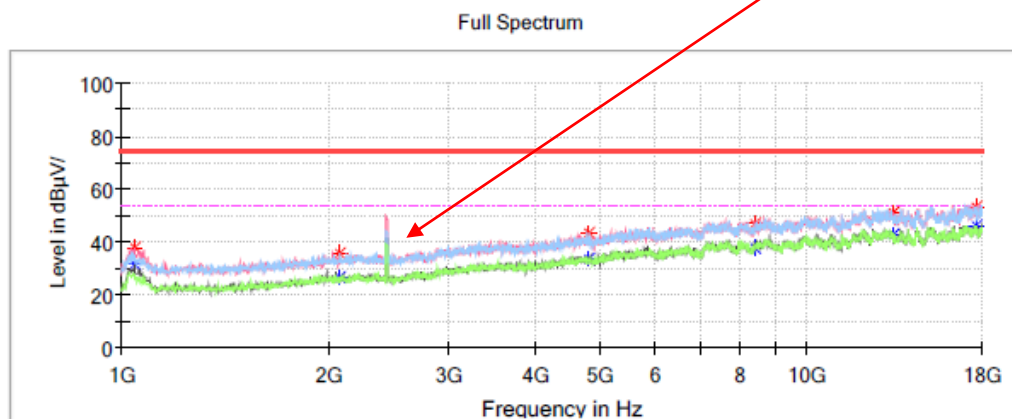
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1032.300000	---	29.51	54.00	24.49	V	-15.4
1032.300000	39.09	---	74.00	34.91	V	-15.4
1999.600000	---	26.87	54.00	27.13	H	-11.7
1999.600000	35.24	---	74.00	38.76	H	-11.7
3109.700000	---	31.39	54.00	22.61	H	-8.0
3109.700000	39.38	---	74.00	34.62	H	-8.0
4468.000000	---	32.31	54.00	21.69	H	-4.4
4468.000000	41.85	---	74.00	32.15	H	-4.4
8797.900000	---	41.14	54.00	12.86	V	5.4
8797.900000	51.91	---	74.00	22.09	V	5.4
16750.500000	---	44.39	54.00	9.61	H	11.5
16750.500000	53.90	---	74.00	20.10	H	11.5

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA240119004
EUT Model: EAP600
Test Mode: 802.11g Mode
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 102.0kPa
Test Engineer: Hugh Wu
Test Date: 2024/5/30

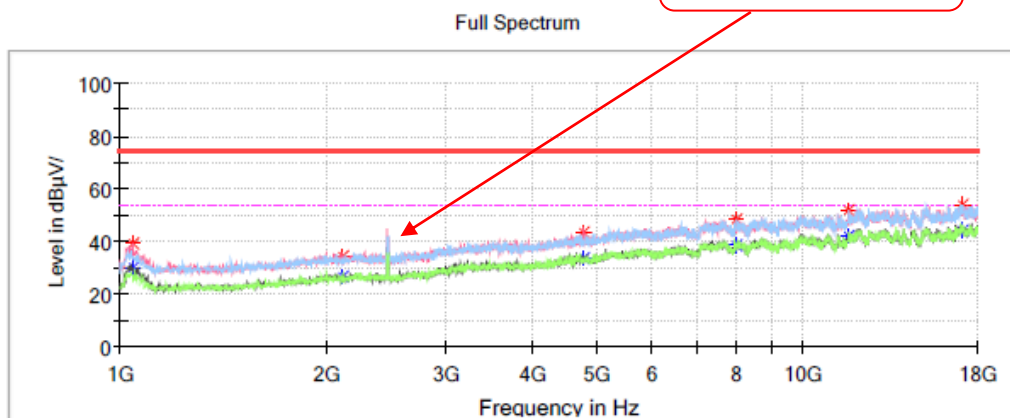
Fundamental Test
with notch filter

**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)
1044.200000	37.75	---	74.00	36.25	V	-15.4
1044.200000	---	31.32	54.00	22.68	V	-15.4
2079.500000	35.92	---	74.00	38.08	H	-11.5
2079.500000	---	26.25	54.00	27.75	H	-11.5
4808.000000	43.46	---	74.00	30.54	H	-3.1
4808.000000	---	33.81	54.00	20.19	H	-3.1
8376.300000	---	37.68	54.00	16.32	V	5.0
8376.300000	46.55	---	74.00	27.45	V	5.0
13374.300000	---	42.59	54.00	11.41	V	9.6
13374.300000	51.22	---	74.00	22.78	V	9.6
17648.100000	---	46.09	54.00	7.91	H	11.7
17648.100000	53.43	---	74.00	20.57	H	11.7

High Channel: 2462MHz**Common Information**

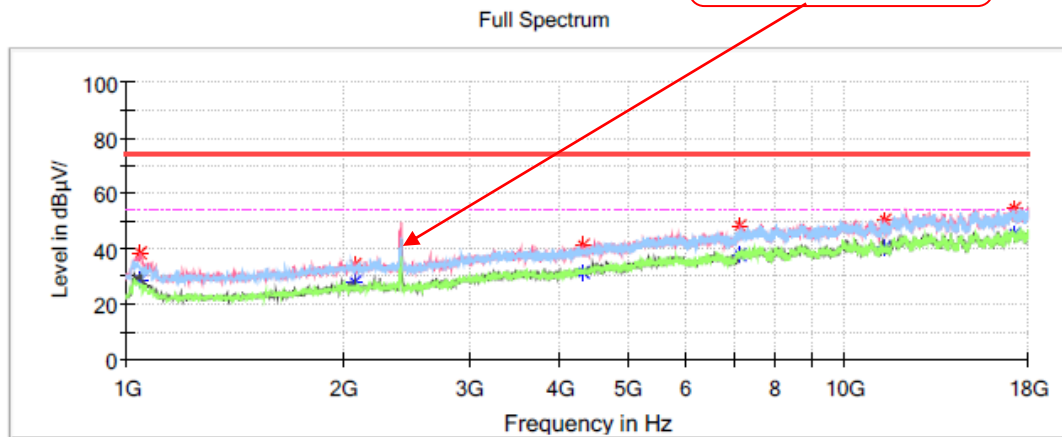
Project No.: RKSA240119004
EUT Model: EAP600
Test Mode: 802.11g Mode
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 102.0kPa
Test Engineer: Hugh Wu
Test Date: 2024/5/30

**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)
1045.900000	---	30.29	54.00	23.71	V	-15.4
1045.900000	39.08	---	74.00	34.92	V	-15.4
2115.200000	---	26.48	54.00	27.52	V	-11.4
2115.200000	34.59	---	74.00	39.41	V	-11.4
4787.600000	---	33.62	54.00	20.38	V	-3.2
4787.600000	43.41	---	74.00	30.59	V	-3.2
7983.600000	---	38.37	54.00	15.63	V	3.9
7983.600000	48.52	---	74.00	25.48	V	3.9
11659.000000	---	41.85	54.00	12.15	V	8.9
11659.000000	51.87	---	74.00	22.13	V	8.9
17133.000000	---	44.38	54.00	9.62	H	12.1
17133.000000	53.67	---	74.00	20.33	H	12.1

Chain 1:**Low Channel: 2412MHz****Common Information**

Project No.: RKSA240119004
EUT Model: EAP600
Test Mode: 802.11g Mode
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 102.0kPa
Test Engineer: Hugh Wu
Test Date: 2024/5/30

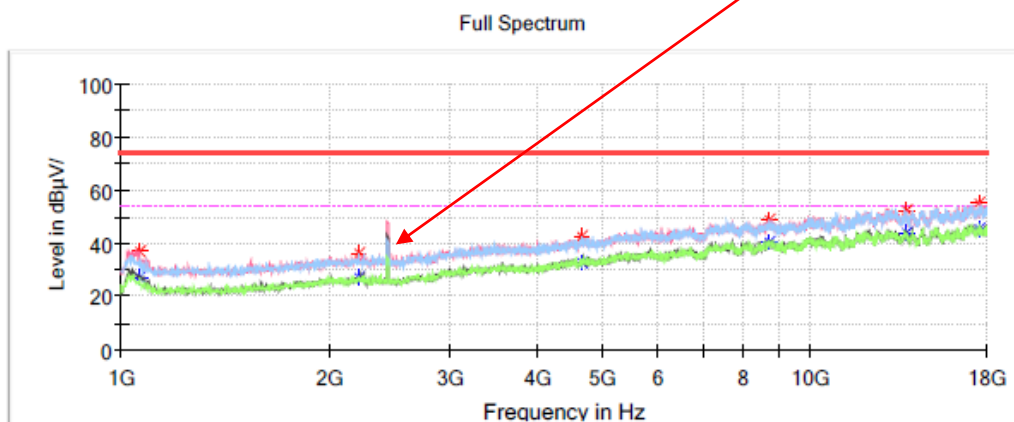
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1045.900000	---	28.88	54.00	25.12	V	-15.4
1045.900000	38.47	---	74.00	35.53	V	-15.4
2072.700000	33.96	---	74.00	40.04	V	-11.5
2072.700000	---	28.02	54.00	25.98	V	-11.5
4330.300000	---	31.76	54.00	22.24	V	-4.8
4330.300000	41.12	---	74.00	32.88	V	-4.8
7152.300000	---	37.82	54.00	16.18	V	3.0
7152.300000	48.32	---	74.00	25.68	V	3.0
11353.000000	---	40.72	54.00	13.28	V	8.4
11353.000000	50.44	---	74.00	23.56	V	8.4
17187.400000	---	45.70	54.00	8.30	H	12.0
17187.400000	54.50	---	74.00	19.50	H	12.0

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA240119004
EUT Model: EAP600
Test Mode: 802.11g Mode
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 102.0kPa
Test Engineer: Hugh Wu
Test Date: 2024/5/30

Fundamental Test
with notch filter

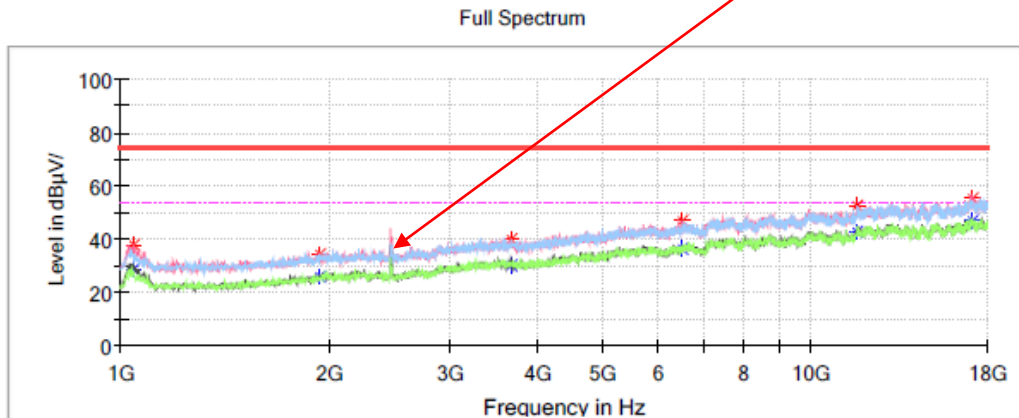
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1062.900000	---	27.01	54.00	26.99	H	-15.4
1062.900000	37.15	---	74.00	36.85	H	-15.4
2212.100000	---	27.57	54.00	26.43	H	-11.1
2212.100000	36.67	---	74.00	37.33	H	-11.1
4646.500000	---	32.79	54.00	21.21	H	-3.7
4646.500000	42.52	---	74.00	31.48	H	-3.7
8719.700000	---	40.81	54.00	13.19	H	5.4
8719.700000	49.14	---	74.00	24.86	H	5.4
13756.800000	---	44.39	54.00	9.61	V	9.7
13756.800000	52.40	---	74.00	21.60	V	9.7
17529.100000	---	45.62	54.00	8.38	V	11.6
17529.100000	55.31	---	74.00	18.69	V	11.6

High Channel: 2462MHz**Common Information**

Project No.:	RKSA240119004
EUT Model:	EAP600
Test Mode:	802.11g Mode
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Temperature:	20.3°C
Humidity:	52%
Atmospheric pressure:	102.0kPa
Test Engineer:	Hugh Wu
Test Date	2024/5/30

Fundamental Test
with notch 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)
1044.200000	---	28.76	54.00	25.24	V	-15.4
1044.200000	37.93	---	74.00	36.07	V	-15.4
1941.800000	---	25.93	54.00	28.07	V	-12.1
1941.800000	34.46	---	74.00	39.54	V	-12.1
3677.500000	---	30.36	54.00	23.64	V	-6.2
3677.500000	39.97	---	74.00	34.03	V	-6.2
6528.400000	---	36.51	54.00	17.49	V	0.6
6528.400000	46.59	---	74.00	27.41	V	0.6
11655.600000	---	42.97	54.00	11.03	H	8.9
11655.600000	52.58	---	74.00	21.42	H	8.9
17139.800000	---	47.05	54.00	6.95	V	12.1
17139.800000	55.31	---	74.00	18.69	V	12.1

802.11n20 Mode (Chain 0+1)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 2412 MHz						
1812.600000	---	25.22	54.00	28.78	V	-11.8
1812.600000	34.01	---	74.00	39.99	V	-11.8
3782.900000	---	30.74	54.00	23.26	V	-5.5
3782.900000	39.67	---	74.00	34.33	V	-5.5
4825.000000	---	33.25	54.00	20.75	V	-2.1
4825.000000	41.00	---	74.00	33.00	V	-2.1
9897.800000	---	40.34	54.00	13.66	H	7.5
9897.800000	49.95	---	74.00	24.05	H	7.5
13508.600000	---	45.45	54.00	8.55	V	11.0
13508.600000	52.47	---	74.00	21.53	V	11.0
17539.300000	---	46.95	54.00	7.05	H	13.5
17539.300000	55.56	---	74.00	18.44	H	13.5
Middle Channel: 2437 MHz						
1802.400000	---	25.71	54.00	28.29	H	-11.9
1802.400000	34.66	---	74.00	39.34	H	-11.9
4874.300000	---	33.09	54.00	20.91	V	-1.9
4874.300000	39.53	---	74.00	34.47	V	-1.9
7580.700000	---	38.98	54.00	15.02	V	4.1
7580.700000	48.58	---	74.00	25.42	V	4.1
9925.000000	---	42.09	54.00	11.91	V	7.6
9925.000000	51.09	---	74.00	22.91	V	7.6
13721.100000	---	44.32	54.00	9.68	H	10.8
13721.100000	53.28	---	74.00	20.72	H	10.8
17624.300000	---	47.62	54.00	6.38	V	13.1
17624.300000	57.14	---	74.00	16.86	V	13.1
High Channel: 2462 MHz						
1819.400000	---	24.98	54.00	29.02	V	-11.8
1819.400000	34.66	---	74.00	39.34	V	-11.8
4923.600000	---	33.94	54.00	20.06	H	-1.6
4923.600000	41.74	---	74.00	32.26	H	-1.6
7524.600000	---	40.14	54.00	13.86	V	4.2
7524.600000	48.40	---	74.00	25.60	V	4.2
10423.100000	---	39.94	54.00	14.06	H	7.4
10423.100000	50.81	---	74.00	23.19	H	7.4
15195.000000	---	45.60	54.00	8.40	V	10.8
15195.000000	56.19	---	74.00	17.81	V	10.8
17500.200000	---	47.39	54.00	6.61	V	13.6
17500.200000	57.68	---	74.00	16.32	V	13.6

802.11n-HT40 Mode (Chain 0+1)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 2422 MHz						
1714.000000	---	24.11	54.00	29.89	V	-12.5
1714.000000	33.39	---	74.00	40.61	V	-12.5
4845.400000	---	34.04	54.00	19.96	H	-2.0
4845.400000	41.27	---	74.00	32.73	H	-2.0
7250.900000	---	38.03	54.00	15.97	V	4.0
7250.900000	48.38	---	74.00	25.62	V	4.0
10372.100000	---	40.51	54.00	13.49	V	7.4
10372.100000	49.82	---	74.00	24.18	V	7.4
13770.400000	---	45.00	54.00	9.00	H	10.7
13770.400000	53.22	---	74.00	20.78	H	10.7
17566.500000	---	47.15	54.00	6.85	V	13.3
17566.500000	56.59	---	74.00	17.41	V	13.3
Middle Channel: 2437 MHz						
1790.500000	---	25.48	54.00	28.52	V	-12.0
1790.500000	33.88	---	74.00	40.12	V	-12.0
4874.300000	---	32.43	54.00	21.57	H	-1.9
4874.300000	39.70	---	74.00	34.30	H	-1.9
7092.800000	---	39.75	54.00	14.25	V	3.9
7092.800000	48.12	---	74.00	25.88	V	3.9
9998.100000	---	41.85	54.00	12.15	V	7.8
9998.100000	51.29	---	74.00	22.71	V	7.8
14008.400000	---	45.81	54.00	8.19	V	10.5
14008.400000	53.98	---	74.00	20.02	V	10.5
17547.800000	54.24	---	74.00	19.76	H	13.4
17547.800000	---	47.83	54.00	6.17	H	13.4
High Channel: 2452 MHz						
1572.900000	---	24.61	54.00	29.39	V	-13.4
1572.900000	33.51	---	74.00	40.49	V	-13.4
4904.900000	---	34.21	54.00	19.79	H	-1.7
4904.900000	41.91	---	74.00	32.09	H	-1.7
7573.900000	---	39.29	54.00	14.71	V	4.1
7573.900000	48.77	---	74.00	25.23	V	4.1
10047.400000	---	41.96	54.00	12.04	V	7.8
10047.400000	50.78	---	74.00	23.22	V	7.8
13532.400000	---	43.85	54.00	10.15	H	11.0
13532.400000	53.27	---	74.00	20.73	H	11.0
17588.600000	---	47.00	54.00	7.00	V	13.2
17588.600000	56.39	---	74.00	17.61	V	13.2

802.11ax-HEW20 Mode (Chain 0+1)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 2412 MHz						
1748.000000	---	25.11	54.00	28.89	V	-12.3
1748.000000	33.99	---	74.00	40.01	V	-12.3
3835.600000	---	30.89	54.00	23.11	V	-5.4
3835.600000	40.16	---	74.00	33.84	V	-5.4
4828.400000	40.62	---	74.00	33.38	H	-2.1
4828.400000	---	35.04	54.00	18.96	H	-2.1
7626.600000	---	38.80	54.00	15.20	V	4.1
7626.600000	48.83	---	74.00	25.17	V	4.1
13768.700000	---	43.41	54.00	10.59	H	10.7
13768.700000	54.35	---	74.00	19.65	H	10.7
17592.000000	---	46.80	54.00	7.20	V	13.2
17592.000000	56.68	---	74.00	17.32	V	13.2
Middle Channel: 2437 MHz						
1639.200000	---	23.47	54.00	30.53	H	-13.0
1639.200000	32.95	---	74.00	41.05	H	-13.0
4876.000000	40.34	---	74.00	33.66	V	-1.9
4876.000000	---	34.12	54.00	19.88	V	-1.9
7548.400000	---	38.59	54.00	15.41	V	4.2
7548.400000	48.10	---	74.00	25.90	V	4.2
10008.300000	---	41.51	54.00	12.49	H	7.8
10008.300000	50.73	---	74.00	23.27	H	7.8
13279.100000	---	42.05	54.00	11.95	V	10.1
13279.100000	52.09	---	74.00	21.91	V	10.1
17493.400000	---	47.37	54.00	6.63	H	13.6
17493.400000	55.87	---	74.00	18.13	H	13.6
High Channel: 2462 MHz						
1795.600000	34.60	---	74.00	39.40	H	-11.9
1795.600000	---	26.43	54.00	27.57	H	-11.9
4925.300000	---	34.02	54.00	19.98	V	-1.6
4925.300000	41.08	---	74.00	32.92	V	-1.6
7118.300000	---	38.48	54.00	15.52	V	3.9
7118.300000	48.81	---	74.00	25.19	V	3.9
9729.500000	---	40.14	54.00	13.86	V	7.0
9729.500000	49.61	---	74.00	24.39	H	7.0
14010.100000	---	44.15	54.00	9.85	H	10.5
14010.100000	53.71	---	74.00	20.29	V	10.5
17554.600000	---	45.41	54.00	8.59	V	13.4
17554.600000	55.50	---	74.00	18.50	V	13.4

802.11ax-HEW40 Mode (Chain 0+1)

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 2422 MHz						
1923.100000	---	25.53	54.00	28.47	V	-11.1
1923.100000	35.79	---	74.00	38.21	V	-11.1
4842.000000	---	32.77	54.00	21.23	V	-2.0
4842.000000	39.64	---	74.00	34.36	V	-2.0
6526.700000	---	37.20	54.00	16.80	H	1.0
6526.700000	46.66	---	74.00	27.34	H	1.0
9943.700000	---	41.34	54.00	12.66	V	7.6
9943.700000	51.50	---	74.00	22.50	V	7.6
14005.000000	---	46.25	54.00	7.75	H	10.5
14005.000000	53.10	---	74.00	20.90	H	10.5
17481.500000	---	46.81	54.00	7.19	V	13.6
17481.500000	55.39	---	74.00	18.61	V	13.6
Middle Channel: 2437 MHz						
1725.900000	---	25.31	54.00	28.69	V	-12.4
1725.900000	33.90	---	74.00	40.10	V	-12.4
4874.300000	---	32.81	54.00	21.19	H	-1.9
4874.300000	41.55	---	74.00	32.45	H	-1.9
7106.400000	47.80	---	74.00	26.20	V	3.9
7108.100000	---	38.97	54.00	15.03	V	3.9
10310.900000	---	42.23	54.00	11.77	V	7.5
10310.900000	50.81	---	74.00	23.19	V	7.5
15264.700000	---	44.62	54.00	9.38	V	11.0
15264.700000	53.88	---	74.00	20.12	V	11.0
17583.500000	---	48.24	54.00	5.76	H	13.3
17583.500000	56.32	---	74.00	17.68	H	13.3
High Channel: 2452 MHz						
1929.900000	35.64	---	74.00	38.36	V	-11.0
1929.900000	---	26.57	54.00	27.43	V	-11.0
4901.500000	---	33.95	54.00	20.05	V	-1.7
4901.500000	41.27	---	74.00	32.73	V	-1.7
5253.400000	---	36.34	54.00	17.66	V	-0.2
5253.400000	45.17	---	74.00	28.83	V	-0.2
7179.500000	48.22	---	74.00	25.78	V	3.9
7179.500000	---	38.25	54.00	15.75	V	3.9
9930.100000	---	42.64	54.00	11.36	H	7.6
9930.100000	51.27	---	74.00	22.73	H	7.6
15261.300000	---	45.11	54.00	8.89	V	11.0
15261.300000	55.64	---	74.00	18.36	V	11.0

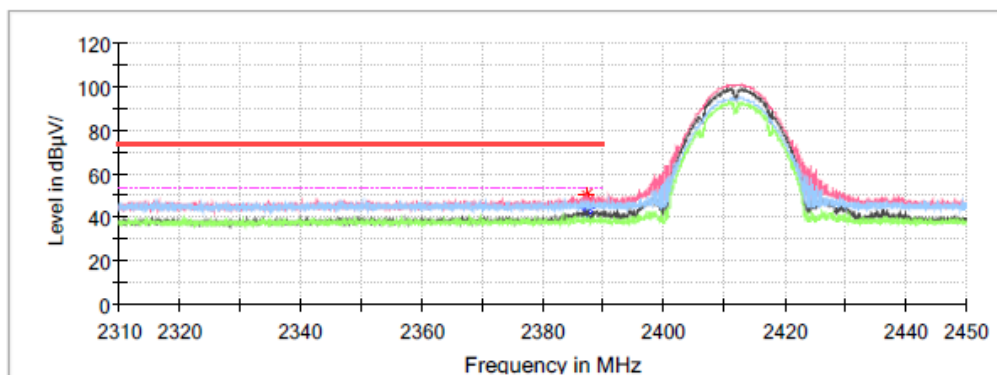
Band Edge:
802.11b Mode:
Chain 0:

Low Channel

Common Information

Project No.:	RKSA240119004
EUT Model:	EAP600
Test Mode:	802.11b Mode
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Temperature:	20.3°C
Humidity:	52%
Atmospheric pressure:	102.0kPa
Test Engineer:	Hugh Wu
Test Date	2024/5/30

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)
2387.224000	50.49	---	74.00	23.51	V	-0.6
2387.224000	---	42.04	54.00	11.96	V	-0.6
2387.490000	48.23	---	74.00	25.77	V	-0.6
2387.490000	---	44.11	54.00	9.89	V	-0.6

High Channel

Common Information

Project No.:RKSA240119004

EUT Model:EAP600

Test Mode:802.11b Mode

Standard:FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

Test Equipment:ESU40,3115,PAM-0118P

Temperature:20.3°C

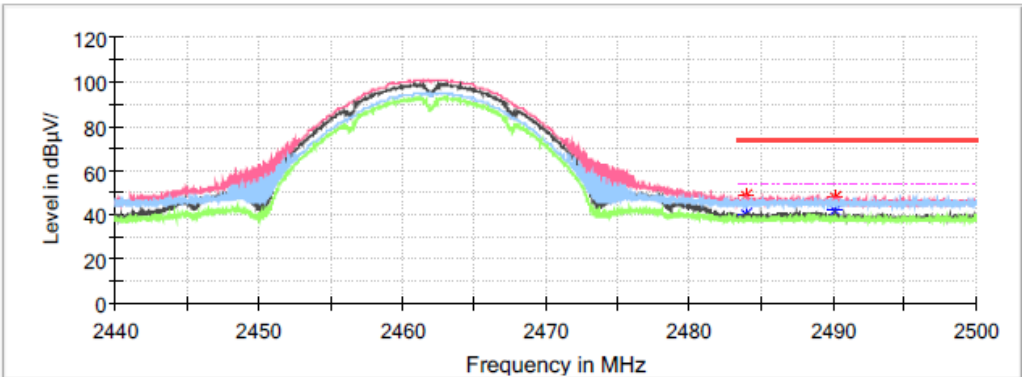
Humidity:52%

Atmospheric pressure:102.0kPa

Test Engineer:Hugh Wu

Test Date:2024/5/30

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.962000	48.98	---	74.00	25.02	V	-0.3
2483.962000	---	40.02	54.00	13.98	V	-0.3
2490.220000	47.44	---	74.00	26.56	V	-0.2
2490.220000	---	42.19	54.00	11.81	V	-0.2

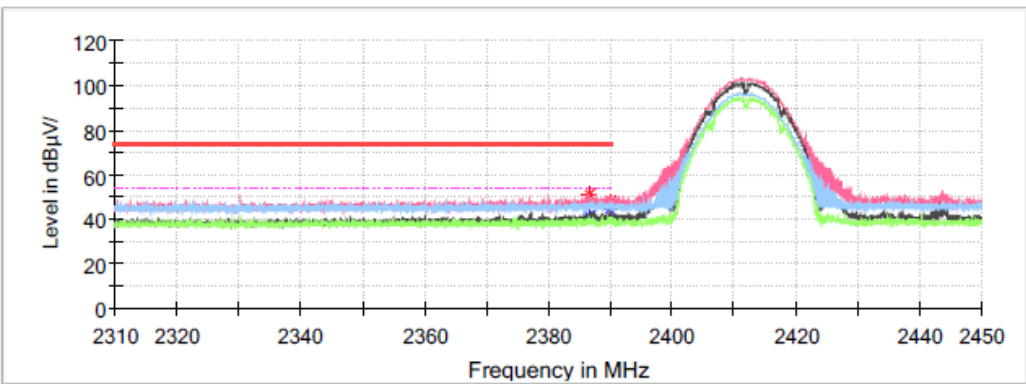
Chain 1:

Low Channel

Common Information

Project No.:	RKSA240119004
EUT Model:	EAP600
Test Mode:	802.11b Mode
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Temperature:	20.3°C
Humidity:	52%
Atmospheric pressure:	102.0kPa
Test Engineer:	Hugh Wu
Test Date	2024/5/30

Full Spectrum



Critical Freqs

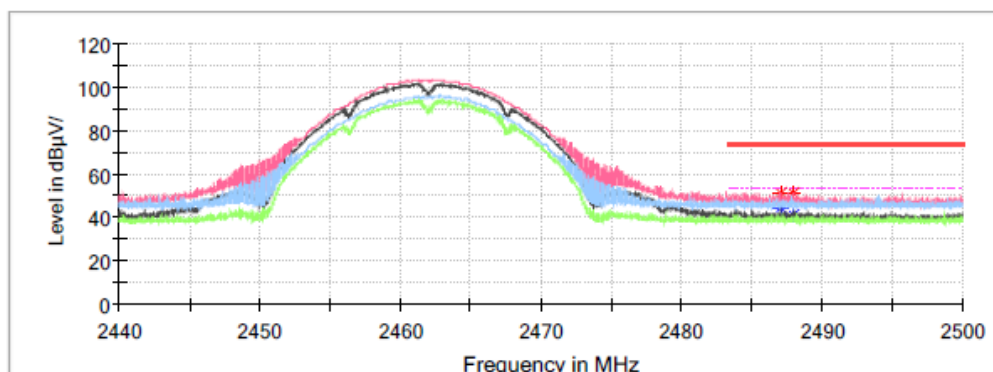
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.720000	50.92	---	74.00	23.08	V	-0.6
2386.720000	---	40.80	54.00	13.20	V	-0.6
2389.842000	48.13	---	74.00	25.87	V	-0.6
2389.842000	---	44.51	54.00	9.49	V	-0.6

High Channel

Common Information

Project No.: RKSA240119004
EUT Model: EAP600
Test Mode: 802.11b Mode
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 102.0kPa
Test Engineer: Hugh Wu
Test Date: 2024/5/30

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2487.016000	---	44.22	54.00	9.78	V	-0.2
2487.016000	51.17	---	74.00	22.83	V	-0.2
2487.934000	---	41.52	54.00	12.48	V	-0.2
2487.934000	51.28	---	74.00	22.72	V	-0.2

802.11g Mode :

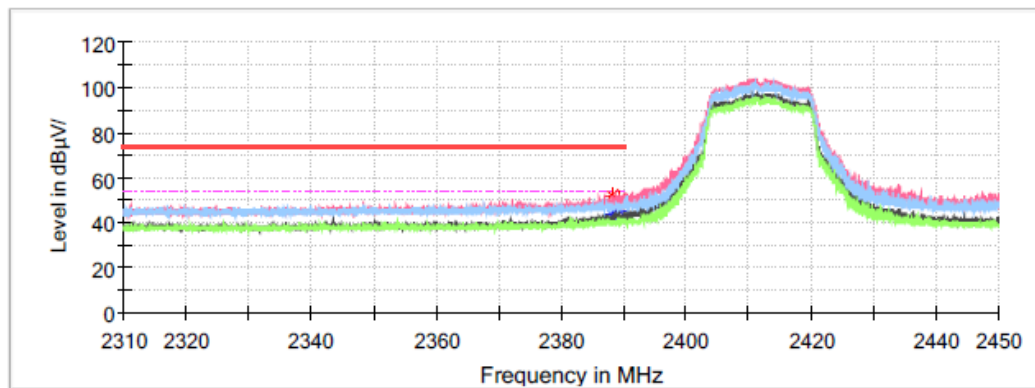
Chain 0:

Low Channel

Common Information

Project No.:	RKSA240119004
EUT Model:	EAP600
Test Mode:	802.11g Mode
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Temperature:	20.3°C
Humidity:	52%
Atmospheric pressure:	102.0kPa
Test Engineer:	Hugh Wu
Test Date	2024/5/30

Full Spectrum



Critical Freqs

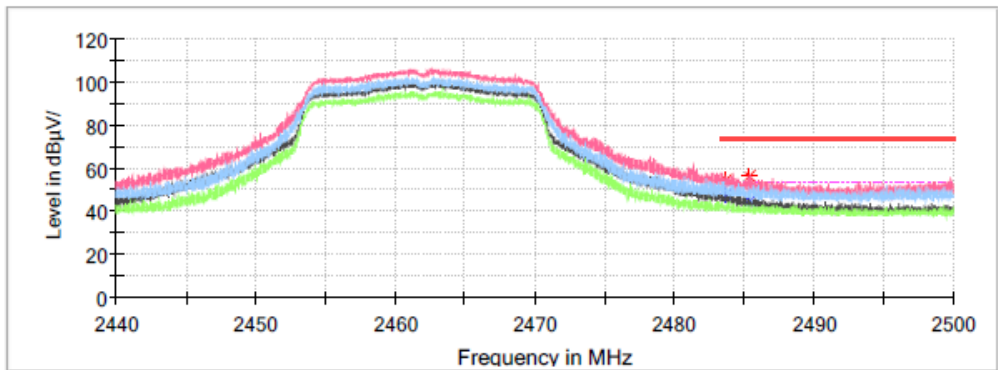
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2388.274000	51.91	---	74.00	22.09	V	-0.6
2388.274000	---	43.53	54.00	10.47	V	-0.6
2389.436000	50.09	---	74.00	23.91	V	-0.6
2389.436000	---	45.42	54.00	8.58	V	-0.6

High Channel

Common Information

Project No.: RKSA240119004
EUT Model: EAP600
Test Mode: 802.11g Mode
Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 102.0kPa
Test Engineer: Hugh Wu
Test Date: 2024/5/30

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.716000	54.56	---	74.00	19.44	V	-0.3
2483.716000	---	47.78	54.00	6.22	V	-0.3
2485.336000	56.25	---	74.00	17.75	V	-0.2
2485.336000	---	44.34	54.00	9.66	V	-0.2

Chain 1:

Low Channel

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date

RKSA240119004

EAP600

802.11g Mode

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESU40,3115,PAM-0118P

20.3°C

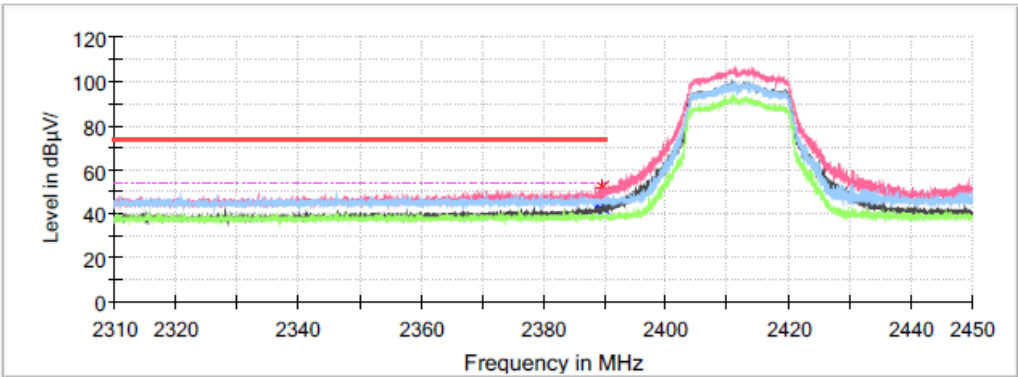
52%

102.0kPa

Hugh Wu

2024/5/30

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.212000	---	43.49	54.00	10.51	V	-0.6
2389.212000	47.11	---	74.00	26.89	V	-0.6
2389.604000	---	43.14	54.00	10.86	V	-0.6
2389.604000	52.17	---	74.00	21.83	V	-0.6

High Channel

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date

RKSA240119004

EAP600

802.11g Mode

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESU40,3115,PAM-0118P

20.3°C

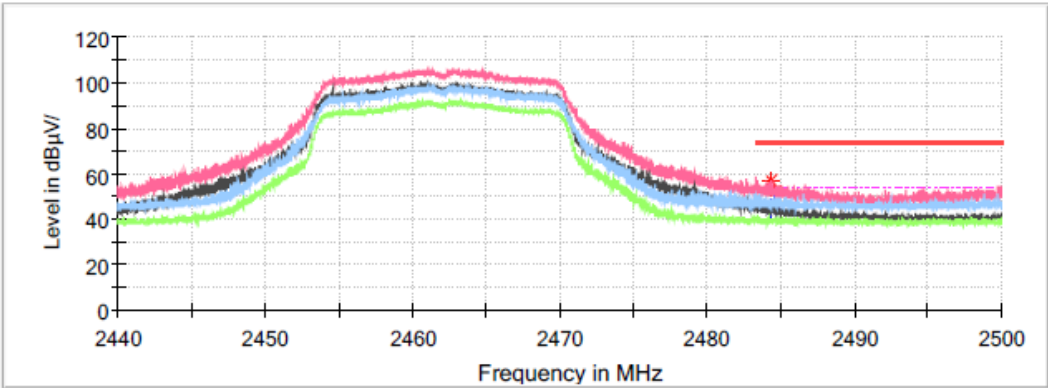
52%

102.0kPa

Hugh Wu

2024/5/30

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.304000	57.23	---	74.00	16.77	V	-0.3
2484.304000	---	44.21	54.00	9.79	V	-0.3
2484.568000	52.01	---	74.00	21.99	V	-0.3
2484.568000	---	46.60	54.00	7.40	V	-0.3

802.11n-HT20 Mode:
Chain 0 + Chain 1:

Low Channel

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date

RKSA240119004

EAP600-LITE

802.11n20 Mode

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESU40,3115,PAM-0118P

20.3℃

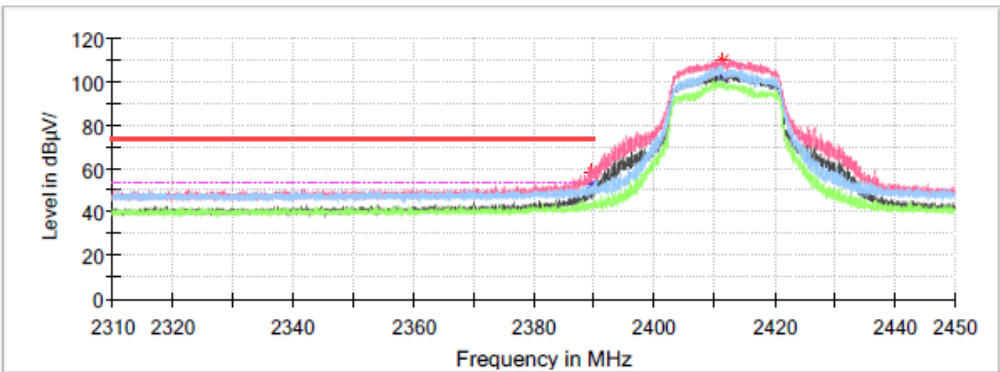
52%

102.0kPa

Peter Wang

2024/3/6

Full Spectrum



Critical Freqs

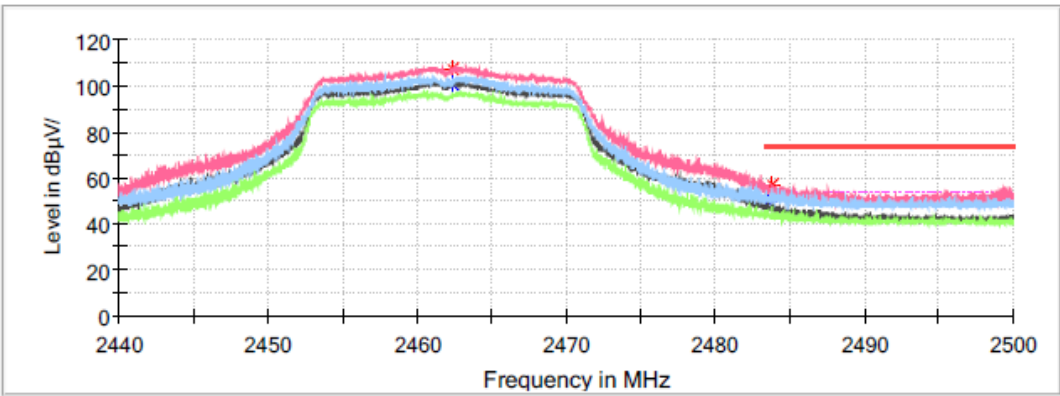
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.800000	---	51.98	54.00	2.02	V	0.1
2389.800000	58.98	---	74.00	15.02	V	0.1
2411.304000	---	102.54	---	---	V	0.1
2411.304000	109.67	---	---	---	V	0.1

High Channel

Common Information

Project No.:	RKSA240119004
EUT Model:	EAP600-LITE
Test Mode:	802.11n20 Mode
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Temperature:	20.3℃
Humidity:	52%
Atmospheric pressure:	102.0kPa
Test Engineer:	Peter Wang
Test Date	2024/3/6

Full Spectrum



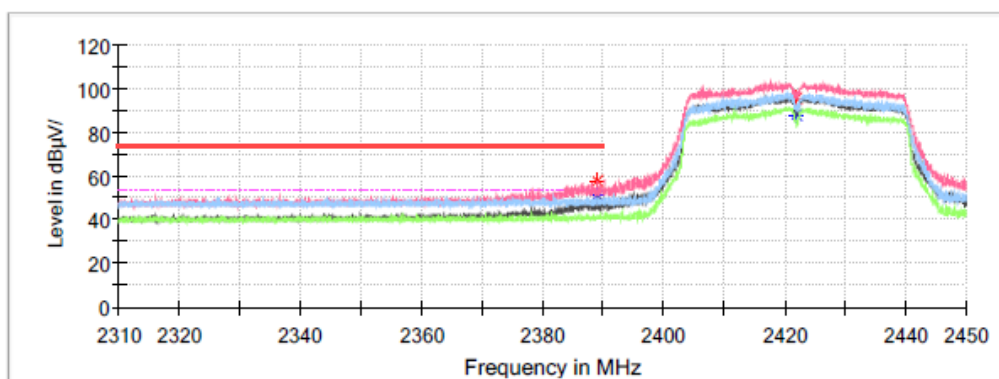
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2462.392000	---	100.80	---	---	V	0.2
2462.392000	107.80	---	---	---	V	0.2
2483.518000	---	49.36	54.00	4.64	V	0.2
2483.518000	57.14	---	74.00	16.86	V	0.2

802.11n-HT40 Mode:**Chain 0 + Chain 1:****Low Channel****Common Information**

Project No.:	RKSA240119004
EUT Model:	EAP600-LITE
Test Mode:	802.11n40 Mode
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Temperature:	20.3℃
Humidity:	52%
Atmospheric pressure:	102.0kPa
Test Engineer:	Peter Wang
Test Date	2024/3/6

Full Spectrum

**Critical Freqs**

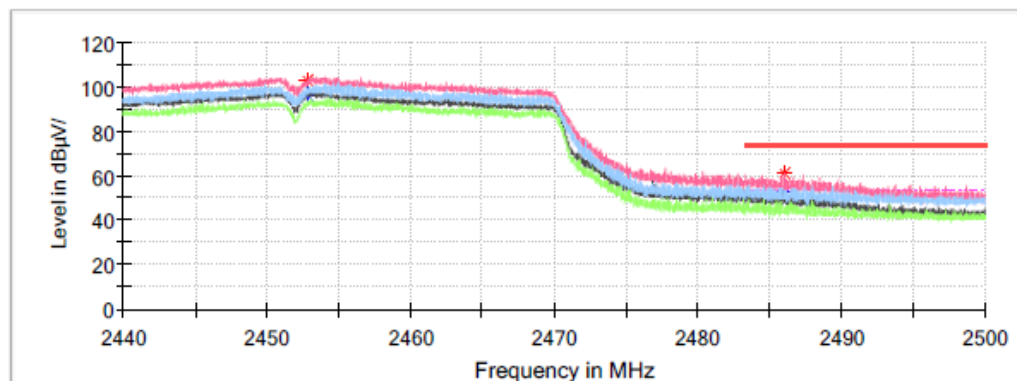
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.100000	---	51.14	54.00	2.86	V	0.1
2389.100000	57.79	---	74.00	16.21	V	0.1
2422.000000	95.90	---	---	---	V	0.1
2422.000000	---	88.10	---	---	V	0.1

High Channel

Common Information

Project No.: RKSA240119004
EUT Model: EAP600-LITE
Test Mode: 802.11n40 Mode
Standard: FCC Part 15.247 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Temperature: 20.3℃
Humidity: 52%
Atmospheric pressure: 102.0kPa
Test Engineer: Peter Wang
Test Date: 2024/3/6

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)
2452.846000	---	96.13	150.00	53.87	V	0.2
2452.846000	103.18	---	150.00	46.82	V	0.2
2485.984000	60.87	---	74.00	13.13	V	0.2
2485.984000	---	51.52	54.00	2.48	V	0.2

802.11ax-HEW20 Mode:
Chain 0 + Chain 1:

Low Channel

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date

RKSA240119004

EAP600-LITE

802.11 ax20 Mode

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESU40,3115,PAM-0118P

20.3℃

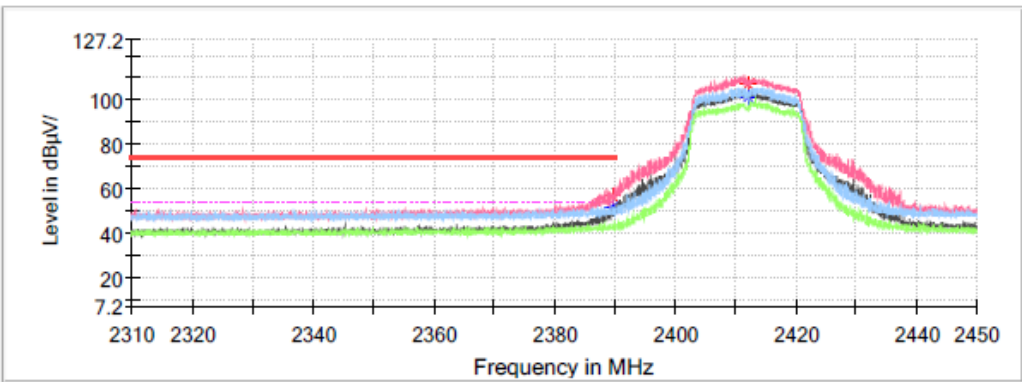
52%

102.0kPa

Peter Wang

2024/3/6

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.660000	56.96	---	74.00	17.04	V	0.1
2389.660000	---	51.81	54.00	2.19	V	0.1
2412.004000	107.00	---	---	---	V	0.1
2412.004000	---	100.98	---	---	V	0.1

High Channel

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date

RKSA240119004

EAP600-LITE

802.11ax20 Mode

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESU40,3115,PAM-0118P

20.3℃

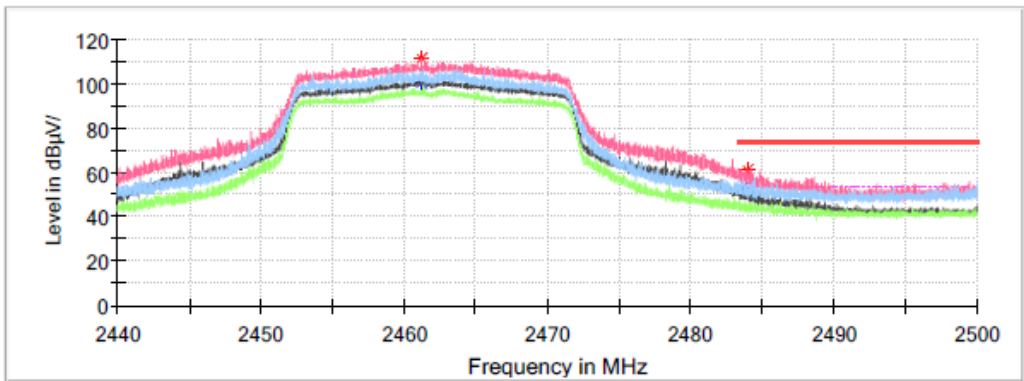
52%

102.0kPa

Peter Wang

2024/3/6

Full Spectrum

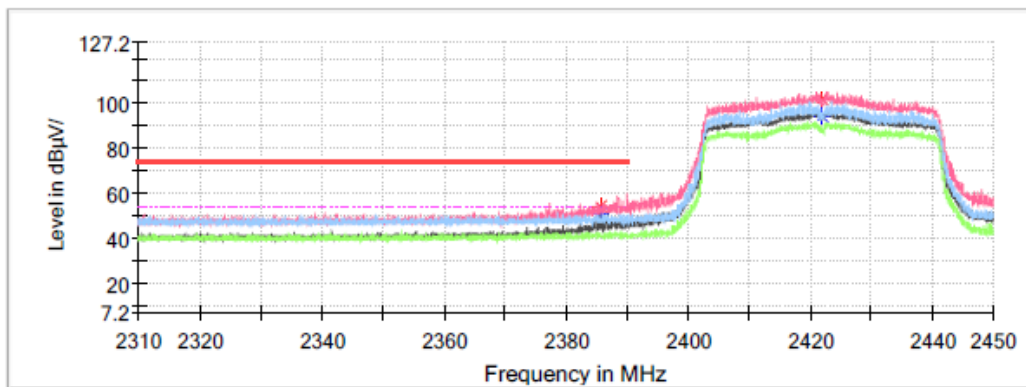


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2461.186000	---	100.73	---	---	V	0.2
2461.186000	111.60	---	---	---	V	0.2
2483.530000	---	51.12	54.00	2.88	V	0.2
2483.530000	61.02	---	74.00	12.98	V	0.2

802.11ax-HEW40 Mode:**Chain 0 + Chain 1:****Low Channel****Common Information**

Project No.:	RKSA240119004
EUT Model:	EAP600-LITE
Test Mode:	802.11 ax40 Mode
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Temperature:	20.3℃
Humidity:	52%
Atmospheric pressure:	101.6kPa
Test Engineer:	Peter Wang
Test Date:	2024/3/5

Full Spectrum**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Corr. (dB/m)
2385.768000	54.12	---	74.00	19.88	200.0	V	0.1
2385.768000	---	51.18	54.00	2.82	200.0	V	0.1
2421.986000	101.78	---	---	---	150.0	V	0.1
2421.986000	---	94.09	---	---	150.0	V	0.1

High Channel

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date

RKSA240119004

EAP600-LITE

802.11ax40 Mode

FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209

ESU40,3115,PAM-0118P

20.3℃

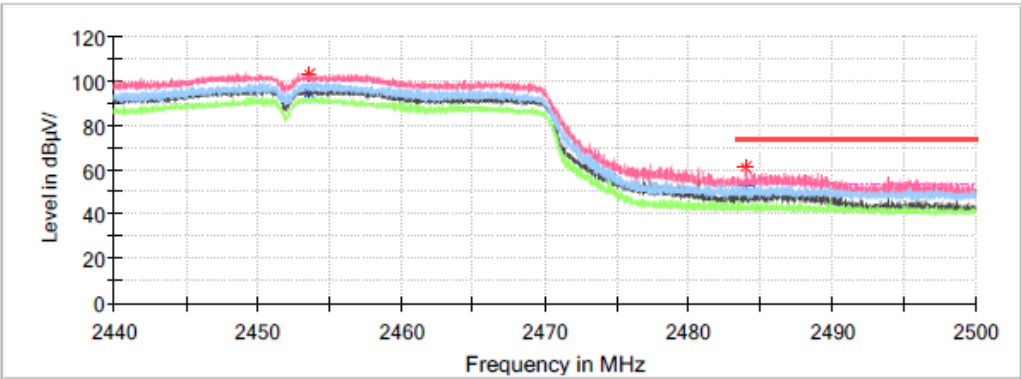
52%

102.0kPa

Peter Wang

2024/3/6

Full Spectrum



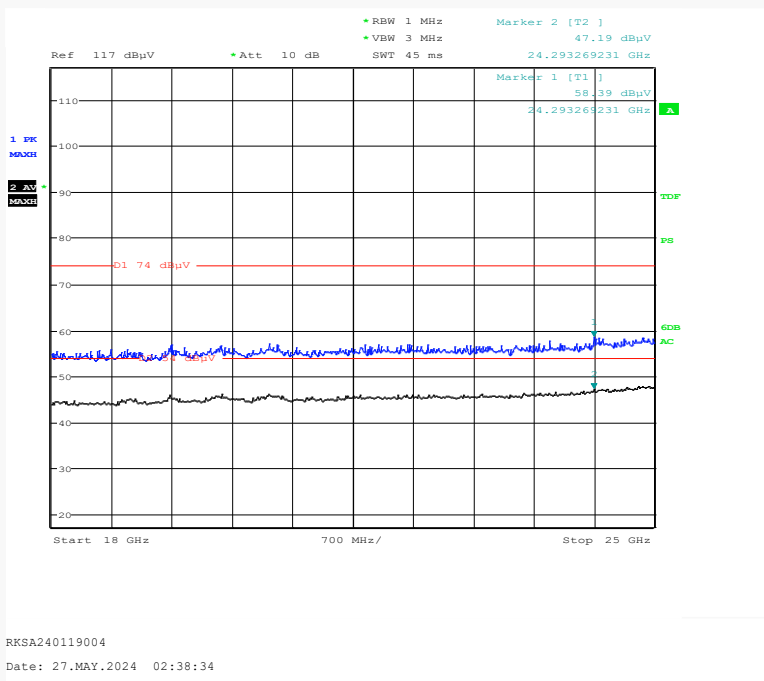
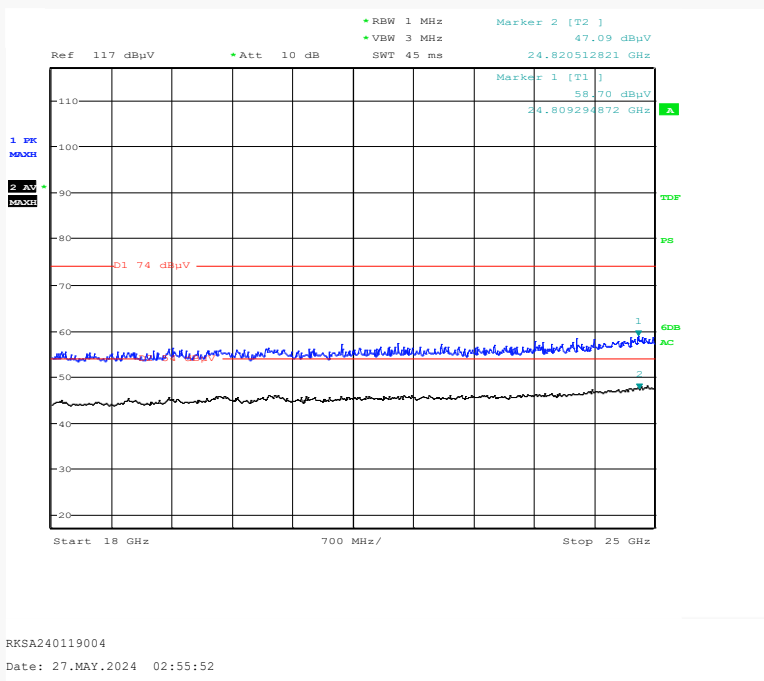
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2453.626000	---	94.81	---	---	V	0.2
2453.626000	103.03	---	---	---	V	0.2
2483.962000	---	51.97	54.00	2.03	V	0.2
2483.962000	61.55	---	74.00	12.45	V	0.2

18 GHz - 25 GHz:

(Note: The test distance is 3m, so the limit for peak is 74 dB μ V/m, Average is 54 dB μ V/m)

Transmitting in maximum output power mode 802.11ax20 mode Low channel

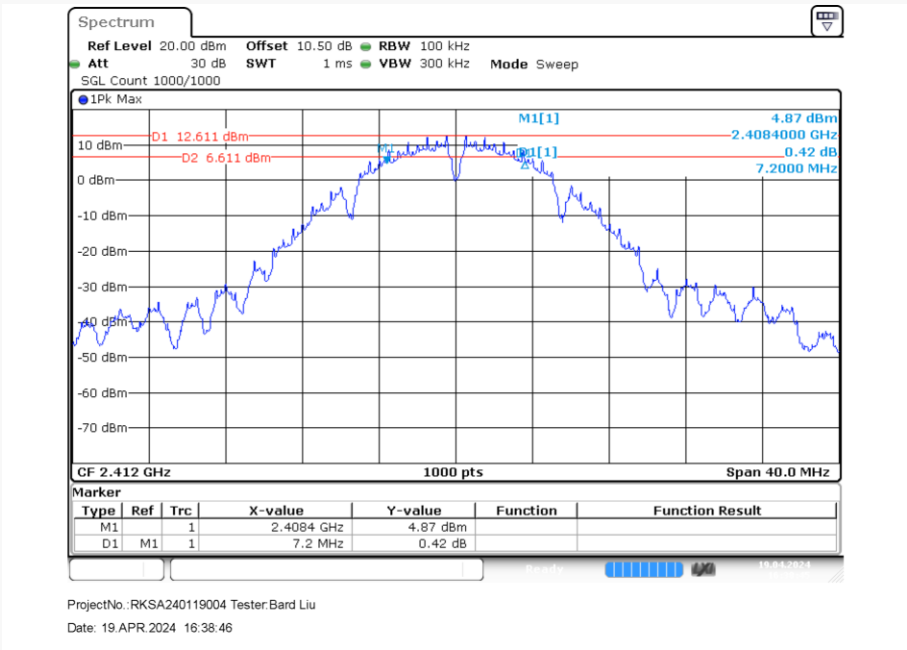
Horizontal**Vertical**

6 dB EMISSION BANDWIDTH**Test Result:** Compliant.*EUT operation mode: Transmitting*

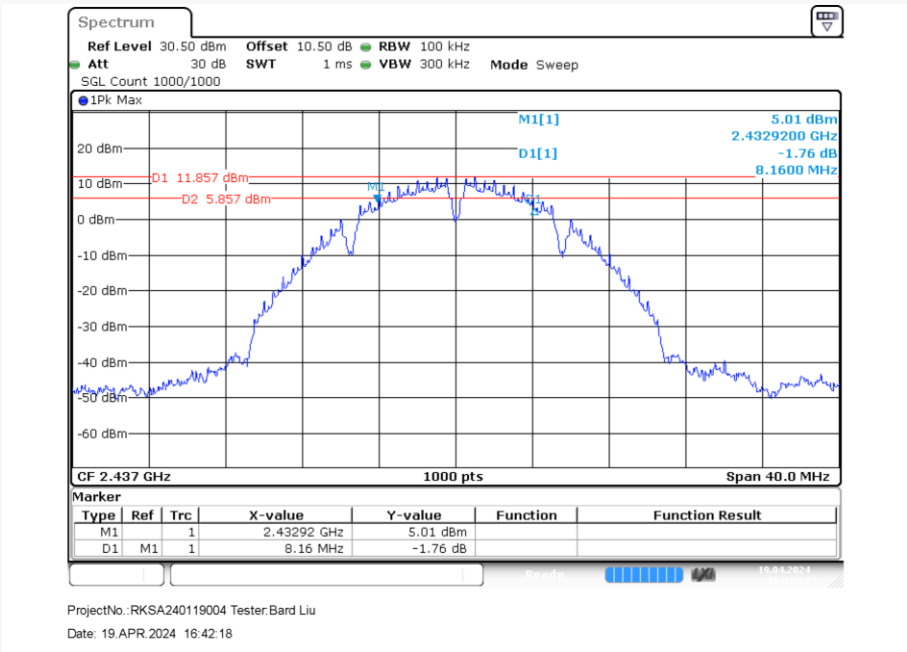
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)		Limit (MHz)
		Chain 0	Chain 1	
802.11b Mode				
Low	2412	7.20	8.16	≥0.5
Middle	2437	8.16	8.16	≥0.5
High	2462	8.20	8.16	≥0.5
802.11g Mode				
Low	2412	13.96	15.20	≥0.5
Middle	2437	15.20	13.96	≥0.5
High	2462	15.16	15.24	≥0.5
802.11n-HT20 Mode				
Low	2412	15.16	15.16	≥0.5
Middle	2437	15.16	13.96	≥0.5
High	2462	13.96	15.16	≥0.5
802.11n-HT40 Mode				
Low	2422	32.72	35.20	≥0.5
Middle	2437	33.92	34.00	≥0.5
High	2452	35.28	34.08	≥0.5
802.11ax-HEW20 Mode				
Low	2412	14.28	15.12	≥0.5
Middle	2437	15.16	17.12	≥0.5
High	2462	15.24	15.24	≥0.5
802.11ax-HEW40 Mode				
Low	2422	35.60	34.08	≥0.5
Middle	2437	35.28	35.28	≥0.5
High	2452	34.08	32.72	≥0.5

Chain 0:

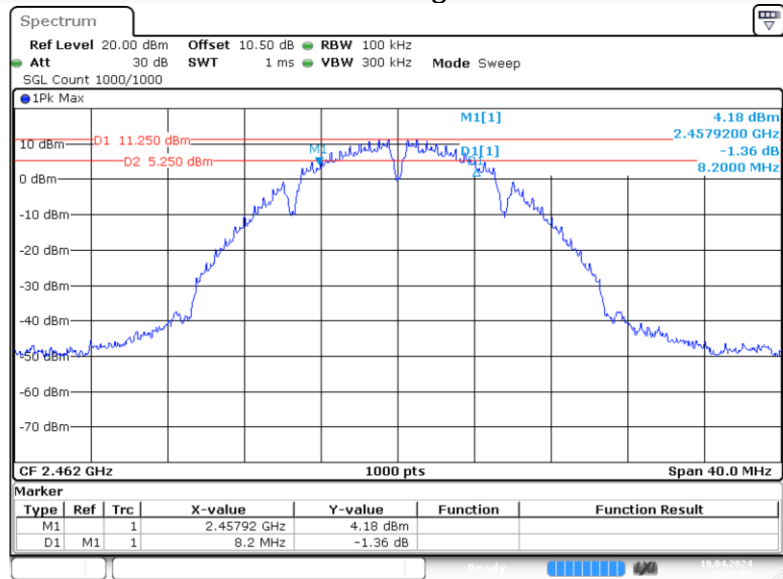
802.11b Mode Low Channel



802.11b Mode Middle Channel

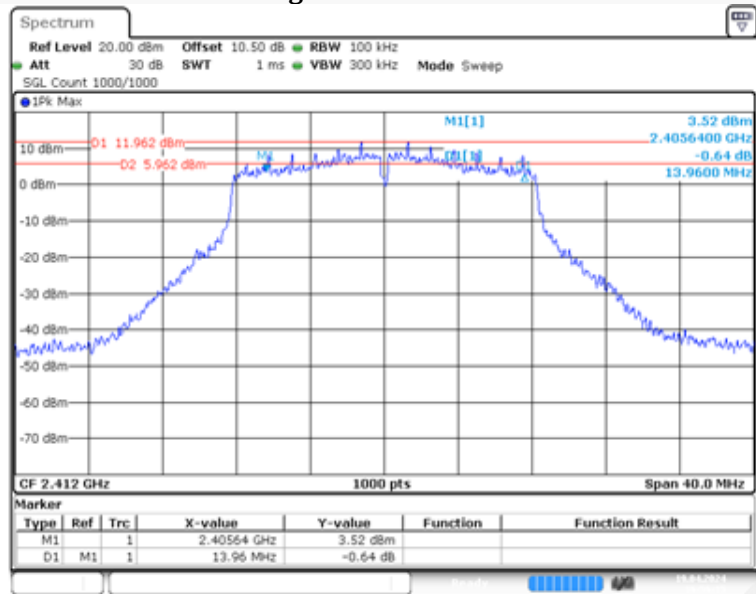


802.11b Mode High Channel



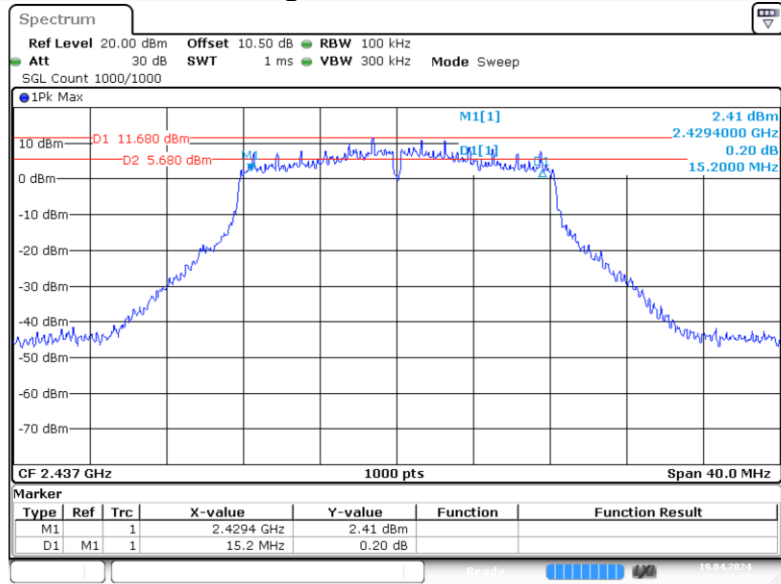
ProjectNo.: RKSA240119004 Tester: Bard Liu
Date: 19.APR.2024 16:45:09

802.11g Mode Low Channel



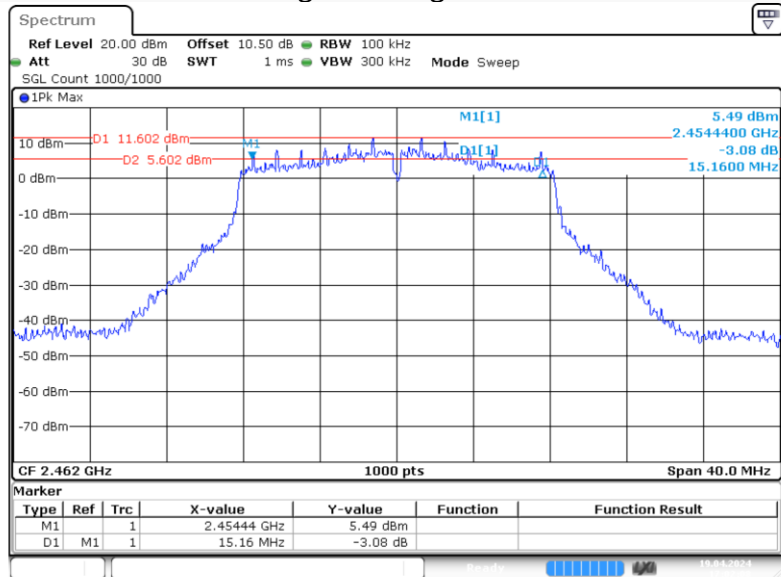
ProjectNo.: RKSA240119004 Tester: Bard Liu
Date: 19.APR.2024 16:56:15

802.11g Mode Middle Channel



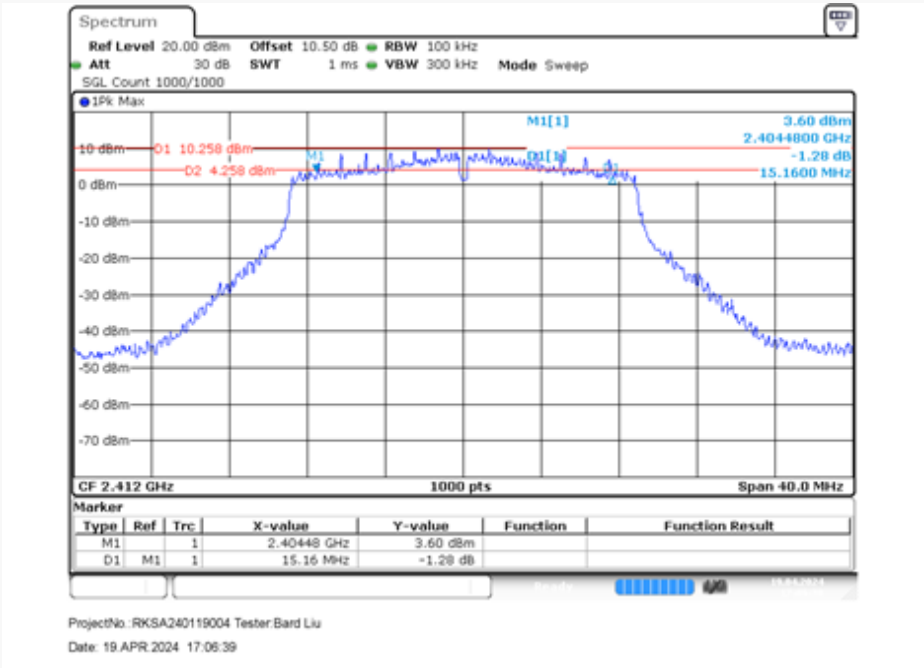
ProjectNo.: RKSA240119004 Tester: Bard Liu
Date: 19 APR 2024 16:58:48

802.11g Mode High Channel

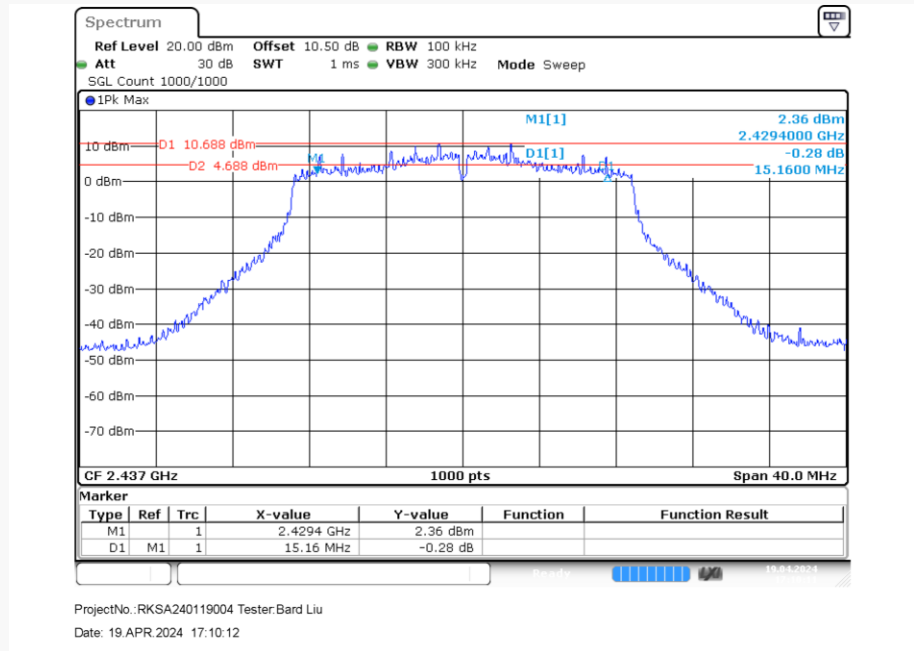


ProjectNo.: RKSA240119004 Tester: Bard Liu
Date: 19 APR 2024 17:02:08

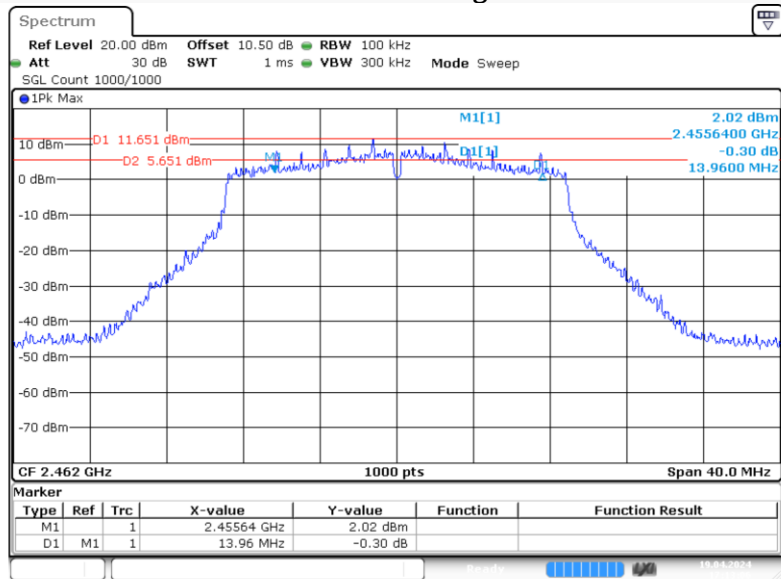
802.11n-HT20 Mode Low Channel



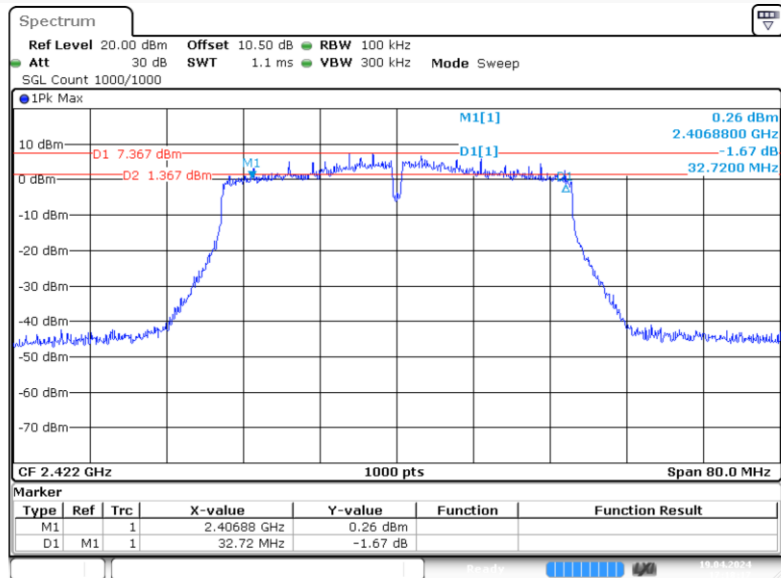
802.11n-HT20 Mode Middle Channel



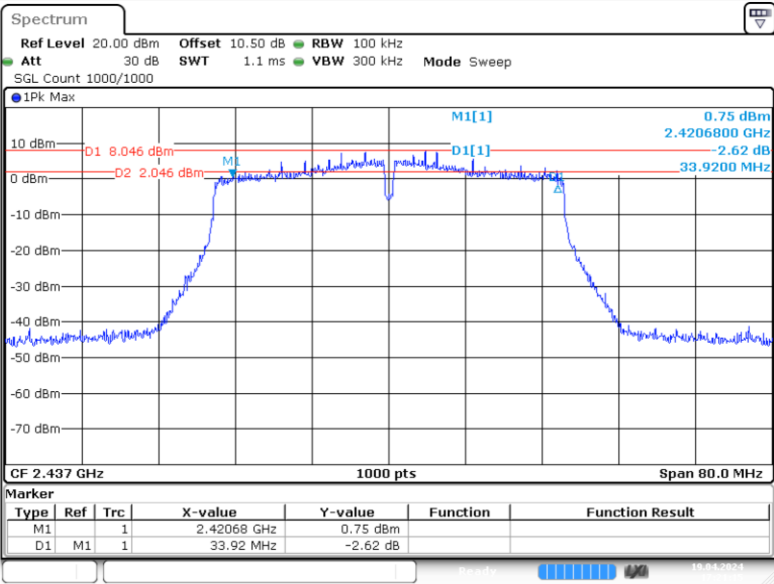
802.11n-HT20 Mode High Channel



802.11n-HT40 Mode Low Channel

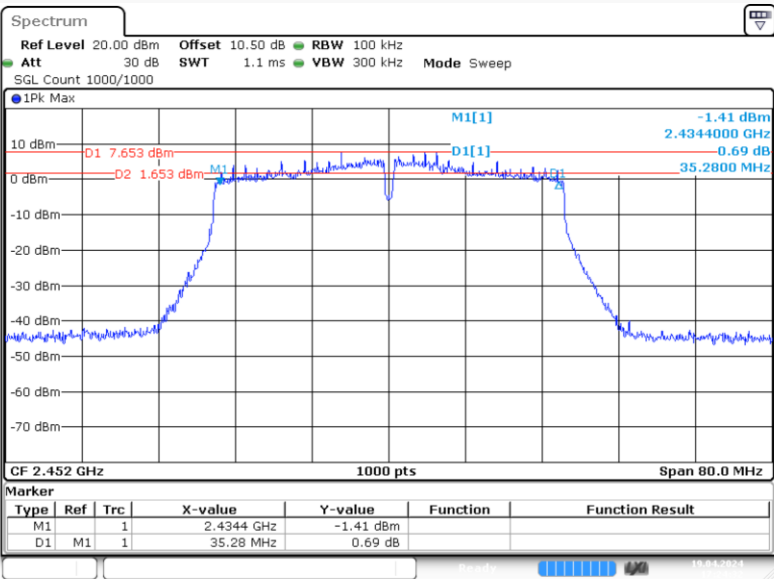


802.11n-HT40 Mode Middle Channel



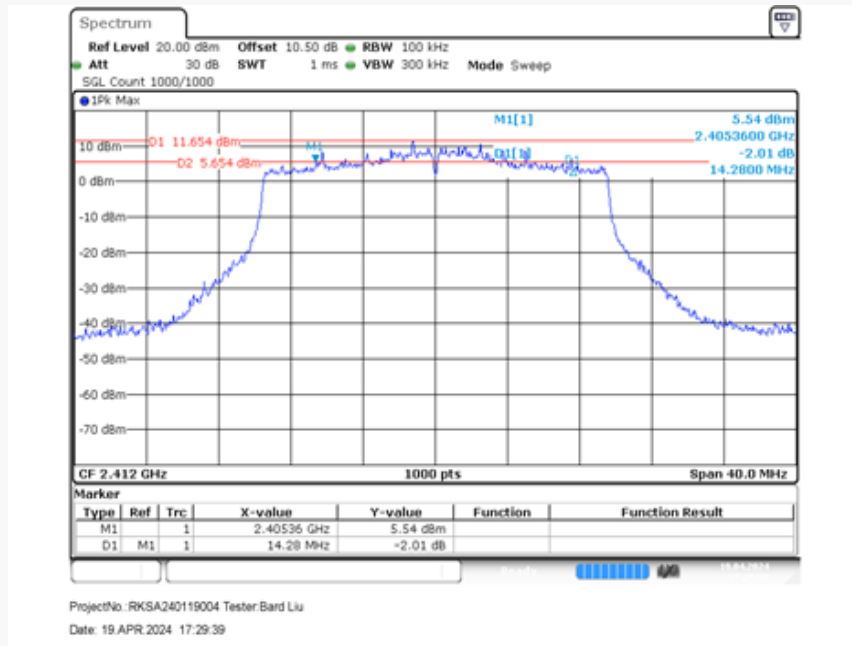
ProjectNo.: RKSA240119004 Tester: Bard Liu
Date: 19 APR 2024 17:21:15

802.11n-HT40 Mode High Channel

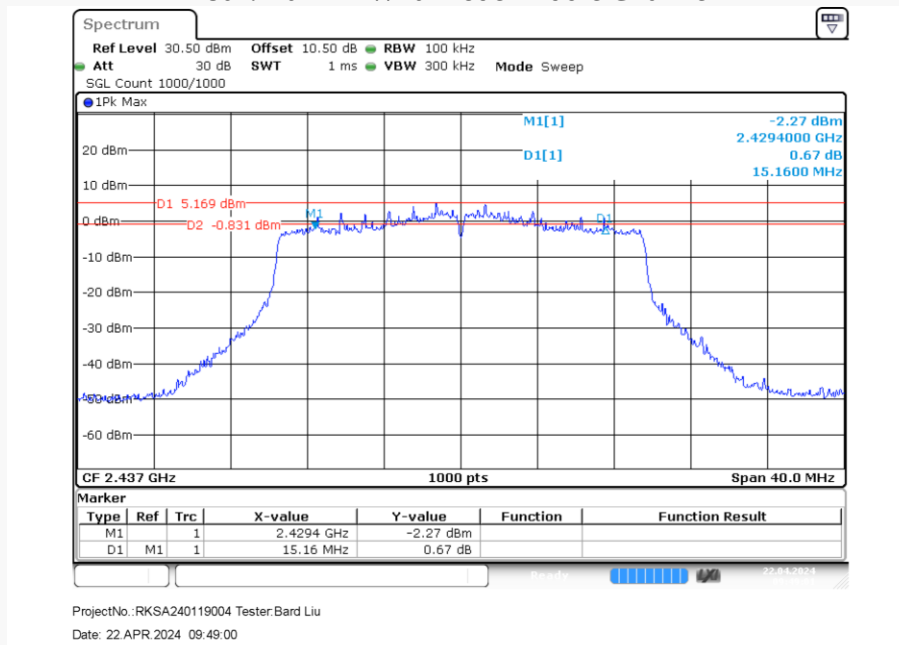


ProjectNo.: RKSA240119004 Tester: Bard Liu
Date: 19 APR 2024 17:24:32

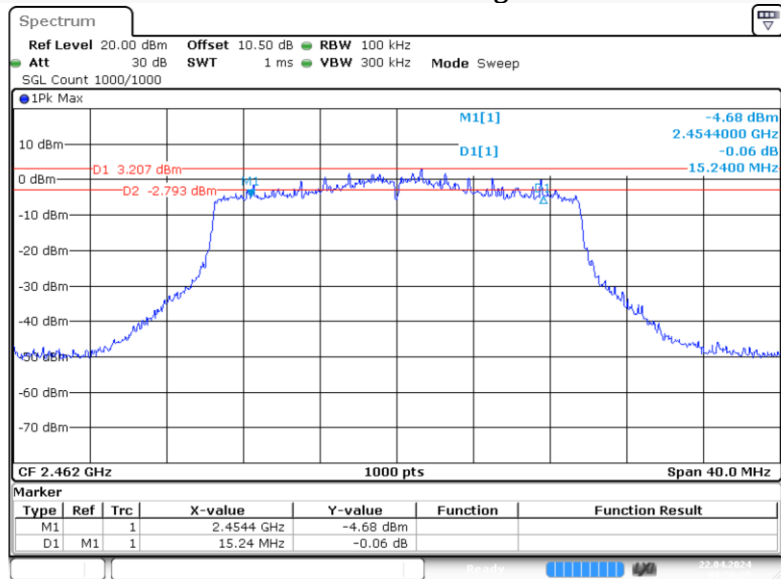
802.11ax-HEW20 Mode Low Channel



802.11ax-HEW20 Mode Middle Channel

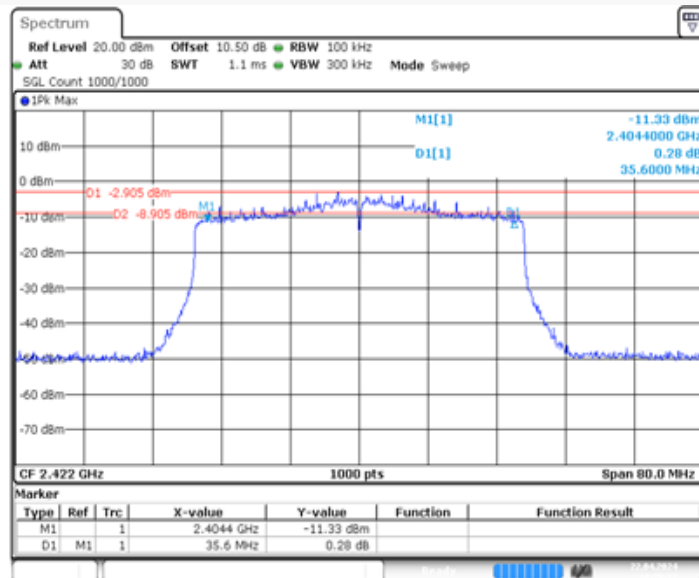


802.11ax-HEW20 Mode High Channel



ProjectNo.: RKSA240119004 Tester: Bard Liu
 Date: 22 APR 2024 09:56:25

802.11ax-HEW40 Mode Low Channel



ProjectNo.: RKSA240119004 Tester: Bard Liu
 Date: 22 APR 2024 10:20:13