NVLAP TESTING
NVLAP LAB CODE 600338-0

BACL Bay Area Compliance Labs Corp.

FCC PART 15.407

TEST REPORT

For

Miliwave Co., Ltd.

504, 106-40 Gwahakdanji-ro, Gangneung-si, Gangwon-do, South Korea

FCC ID: 2AVCWMWC-708

Report Type:	**Product Name:**
Original Report	Wireless Router

Report Number:	RKSA231222003-00C
Report Date:	2024-03-12
Reviewed By:	Bard Liu
Approves 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

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA231222003-00C	R1V1	2024-03-12	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Miliwave Co., Ltd.	
Tested Model:	MWC-708	
Product Name:	Wireless Router	
Power Supply:	DC 24V~48V from DC Jack or 24V~56V from PoE	
Maximum Output Power	5G Wi-Fi B1:	5G Wi-Fi B4:
	802.11a:16.82 dBm	21.39 dBm
	802.11ac20:18.39 dBm	23.84 dBm
	802.11n-HT20:18.39 dBm	23.85 dBm
	802.11ac40:20.33 dBm	24.80 dBm
	802.11n-HT40:20.33 dBm	24.81 dBm
	802.11ac80:10.06 dBm	22.10 dBm
	802.11ax20:18.08 dBm	23.59 dBm
	802.11ax40:19.80 dBm	24.24 dBm
	802.11ax80:9.52 dBm	22.10 dBm
Operating Frequency	5G Wi-Fi B1: 5180-5240 MHz, B4: 5745-5825 MHz	
Channel Number	5G Wi-Fi B1: 7, B4: 8	
Channel Separation	5G Wi-Fi: a/ac20/n20/ax20: 20 MHz, ac40/n40/ax40: 40 MHz, ac80/ax80: 80 MHz	
Modulation Type	OFDM, OFDMA	
Antenna Type	directional patch antenna, rod antenna	
★Maximum Antenna Gain	Band 1: directional patch antenna：10.1 dBi rod antenna: 4.95 dBi Band 4: directional patch antenna：10.6 dBi rod antenna: 5.04 dBi	

Note: The maximum antenna gain is provided by the applicant.

All measurement and test data in this report was gathered from production sample serial number: RKSA231222003-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2023-12-22.)

Objective

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

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

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

Measurement Uncertainty

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

Test Facility

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

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

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

802.11a/ac20/n20/ax20 mode Channel 36, 40, 48 were tested.
802.11n40/ac40/ax40 mode Channel 38, 46 were tested.
802.11ac80/ax80 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/n20/ax20 mode Channel 149, 157, 165 were tested.
802.11n40/ac40/ax40 mode Channel 151, 159 were tested.
802.11ac80/ax80 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

RF test tool: QSPR

The worst case was performed under:

U-NII	Mode	Date rate	★Power Level					
			Low Channel		Middle Channel		High Channel	
			Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
5150~5250MHz	802.11a	6Mbps	17	17.5	17	17.5	19.5	19.5
	802.11n-HT20	MCS0	17	17	17	17	19	19
	802.11n-HT40	MCS0	12	12	12	12	20	20
	802.11ac-VHT20	MCS0	17	17	17	17	19	19
	802.11ac-VHT40	MCS0	12	12	/	/	20	20
	802.11ac-VHT80	MCS0	/	/	11	11	/	/
	802.11ax-HE20	MCS0	17	17	17	17	19	19
	802.11ax-HE40	MCS1	12.5	12.5	/	/	20	20
	802.11ax-HE80	MCS2	/	/	10.5	10.5	/	/

U-NII	Mode	Date rate	★Power Level					
			Low Channel		Middle Channel		High Channel	
			Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
5725~5850MHz	802.11a	6Mbps	23	23	23	23	23	23
	802.11n-HT20	MCS0	23	23	23	23	23	23
	802.11n-HT40	MCS0	23	23	23	23	23	23
	802.11ac-VHT20	MCS0	23	23	23	23	23	23
	802.11ac-VHT40	MCS0	23	23	/	/	23	23
	802.11ac-VHT80	MCS0	/	/	21	21	/	/
	802.11ax-HE20	MCS0	23	23	23	23	23	23
	802.11ax-HE40	MCS0	23	23	/	/	23	23
	802.11ax-HE80	MCS0	/	/	21	21	/	/

Note:
1. The power level was declared by the applicant.
2. For 802.11ax, the EUT only support full RU not support partial RU.
3. For Conducted Test:
802.11a: each transmit chains were tested
802.11ac: each transmit chains were tested
802.11ax: each transmit chains were tested
802.11n: each transmit chains were tested

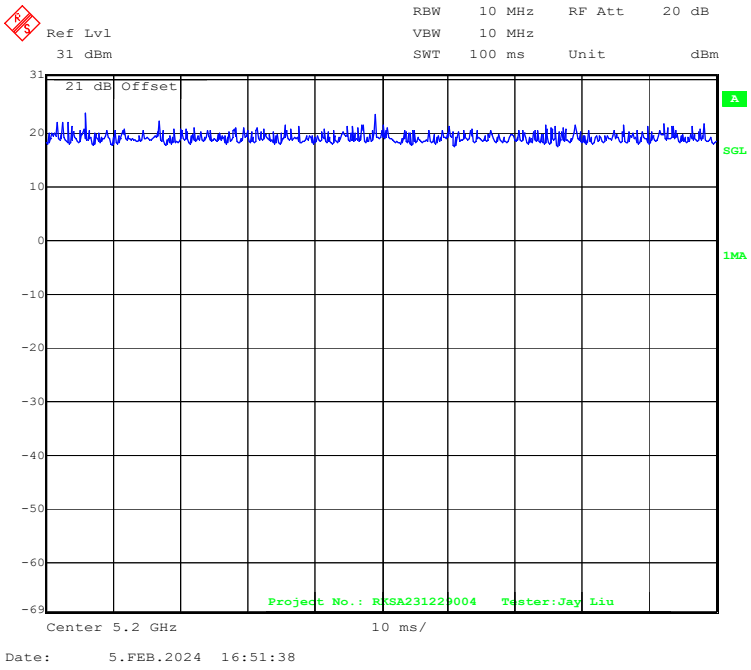
For Radiated Test:

For 802.11a: SISO for each transmit chain
For 802.11ac: MIMO for two transmit chains
802.11ax: MIMO for two transmit chains
For 802.11n: MIMO for two transmit chains

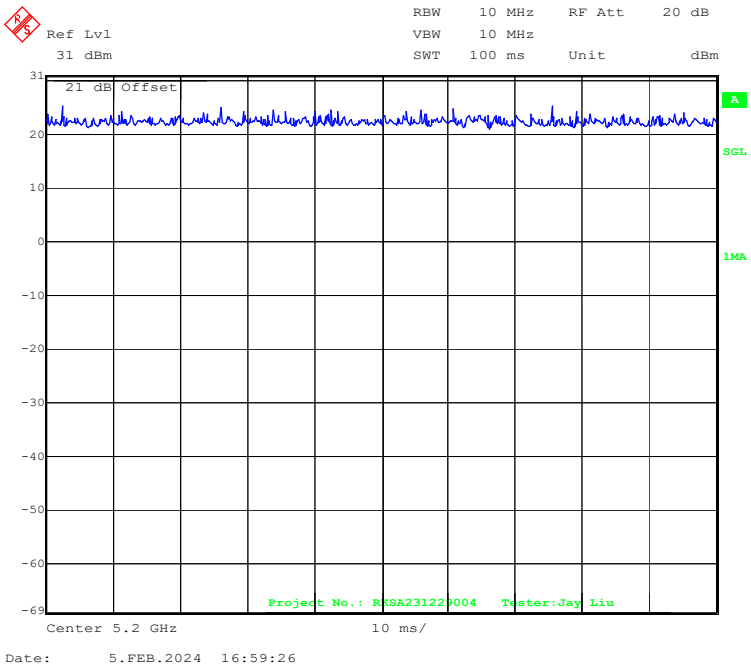
Duty Cycle

5150MHz-5250MHz Band:
Chain 0:

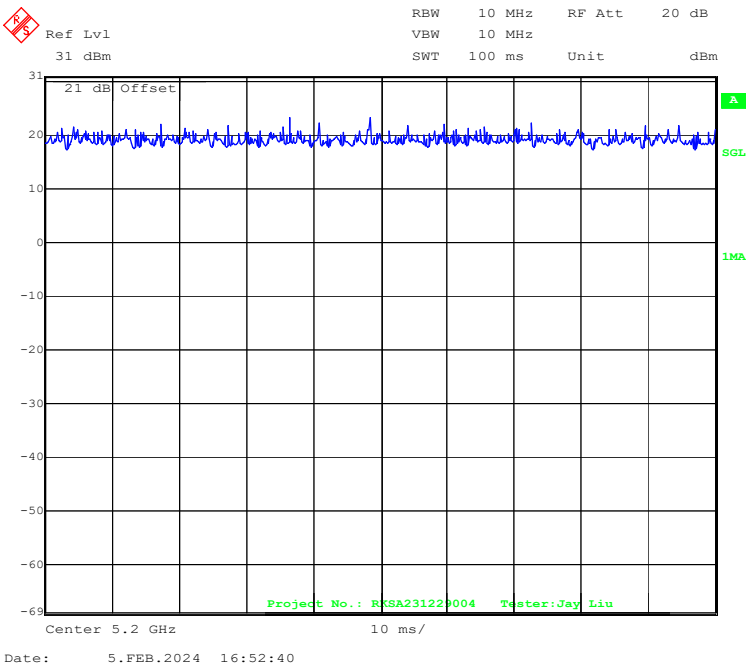
802.11a mode



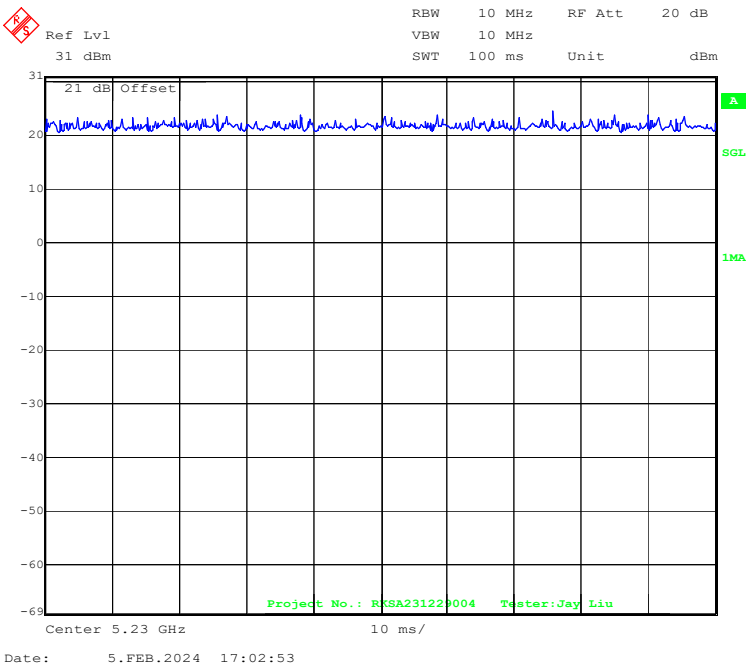
802.11ac20 mode



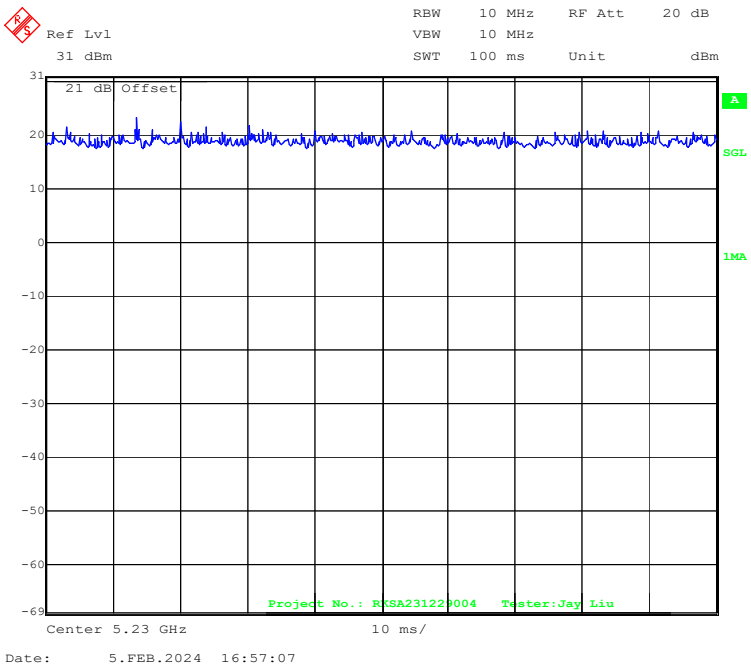
802.11n-HT20 mode



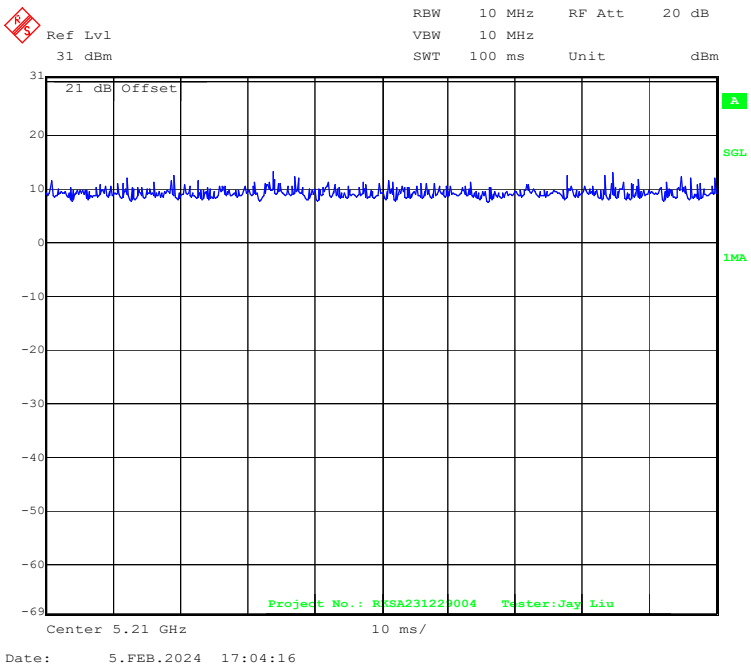
802.11ac40 mode



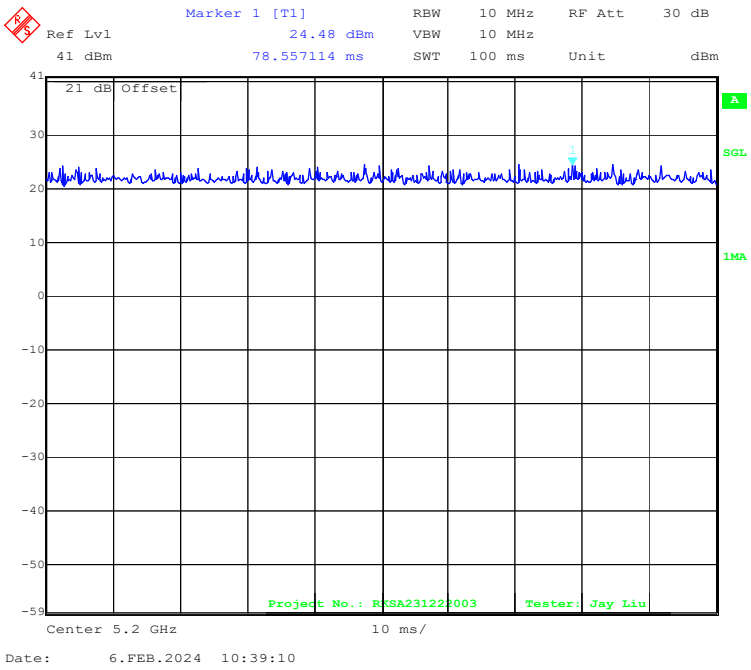
802.11n-HT40 mode



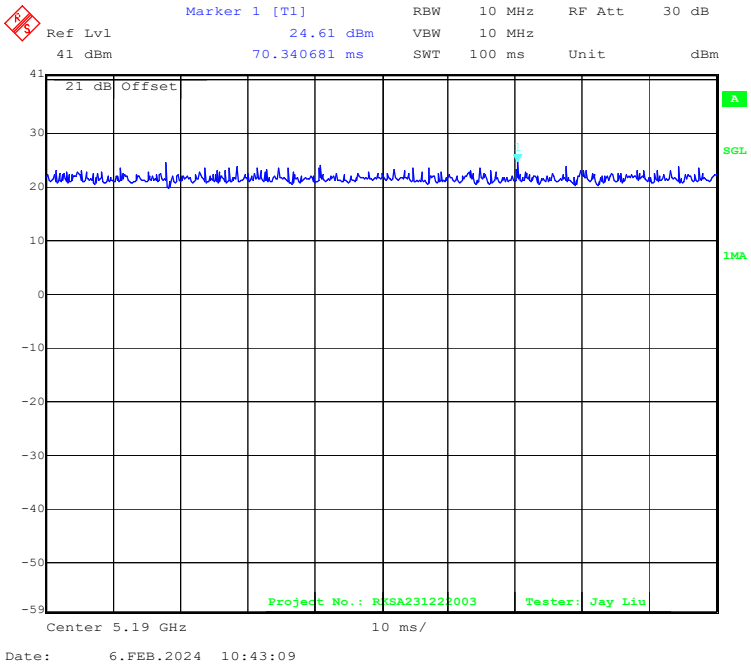
802.11ac80 mode



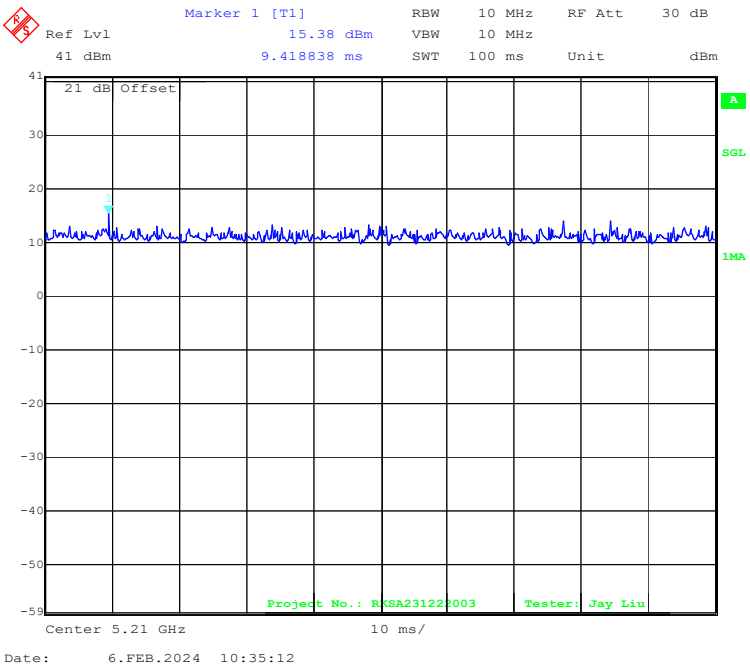
802.11ax-HE20 mode



802.11ax-HE40 mode

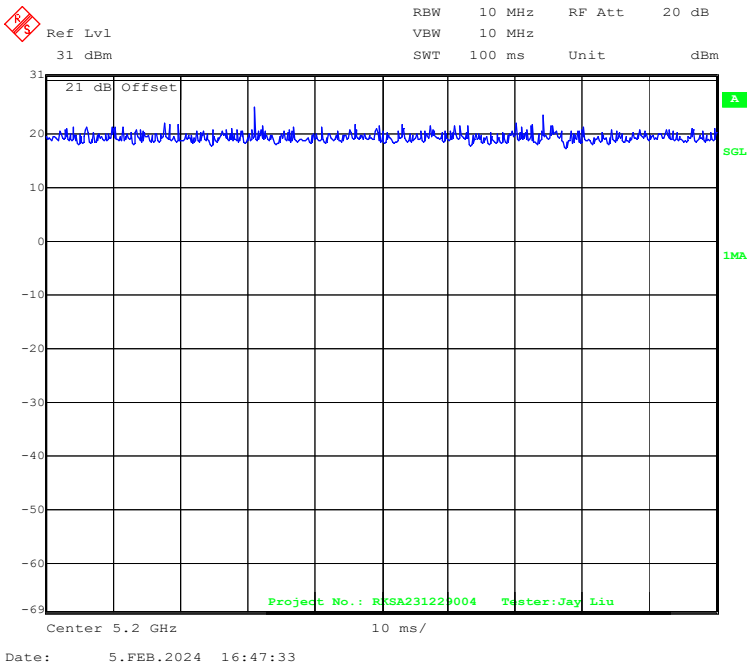


802.11ax-HE80 mode

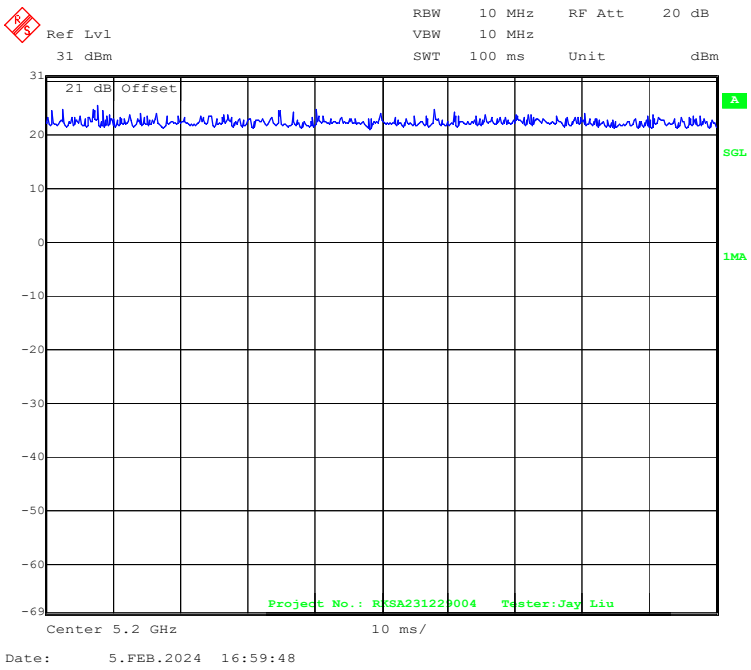


Chain 1:

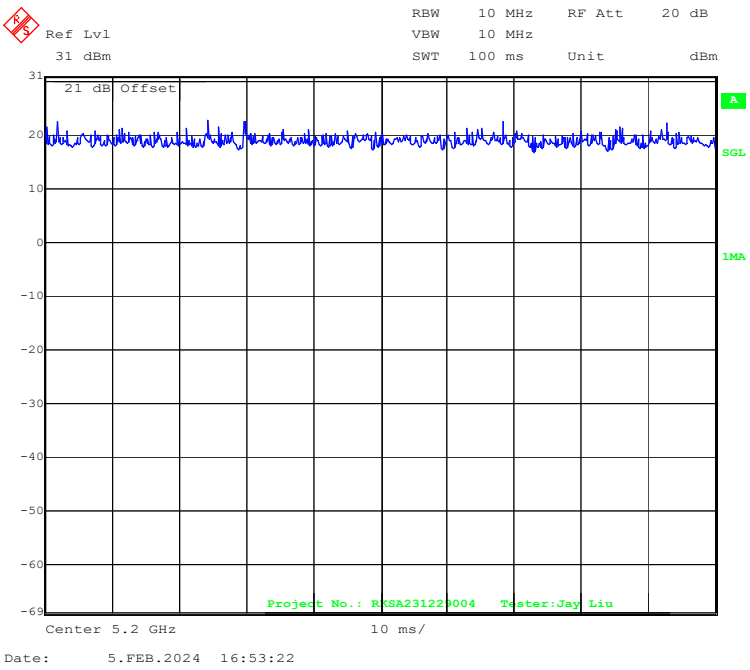
802.11a mode



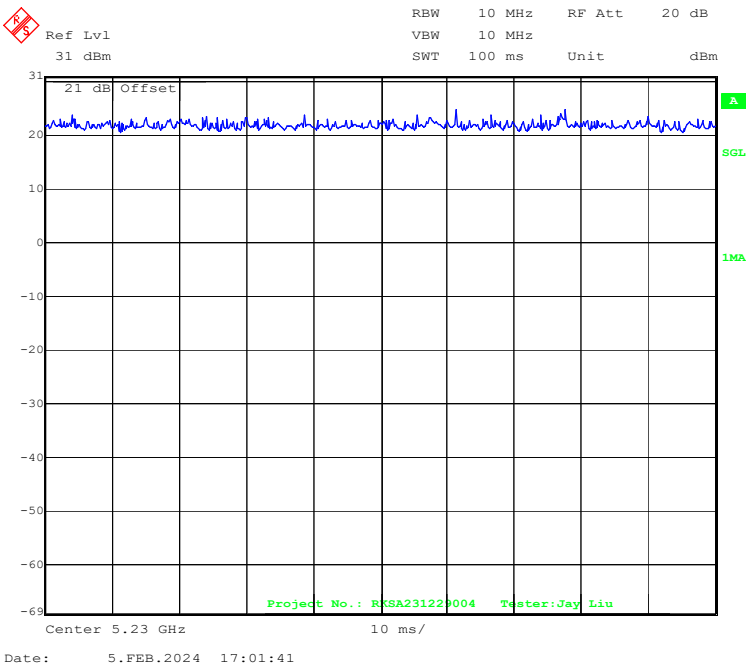
802.11ac20 mode



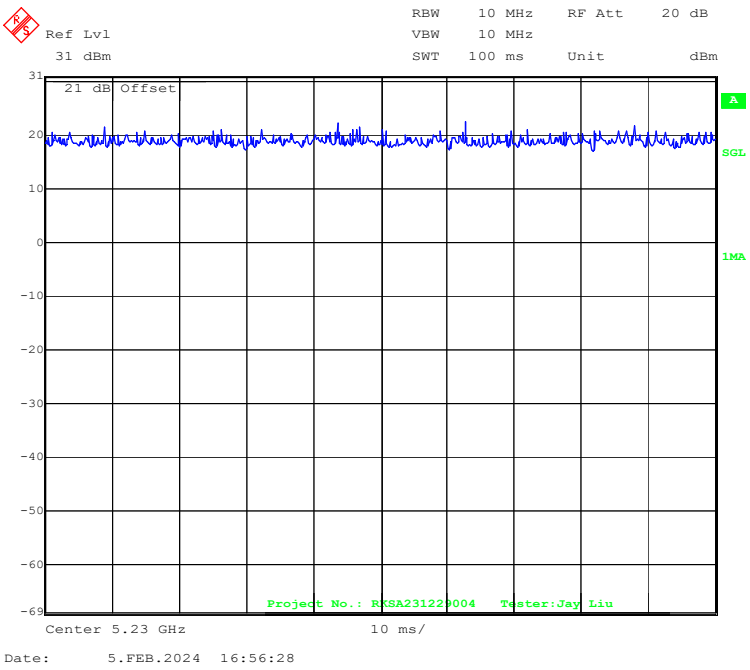
802.11n-HT20 mode



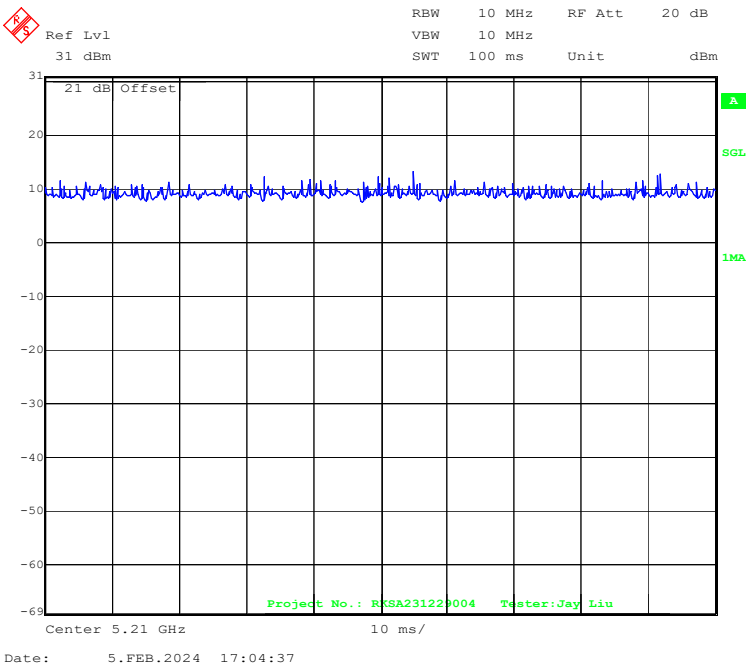
802.11ac40 mode



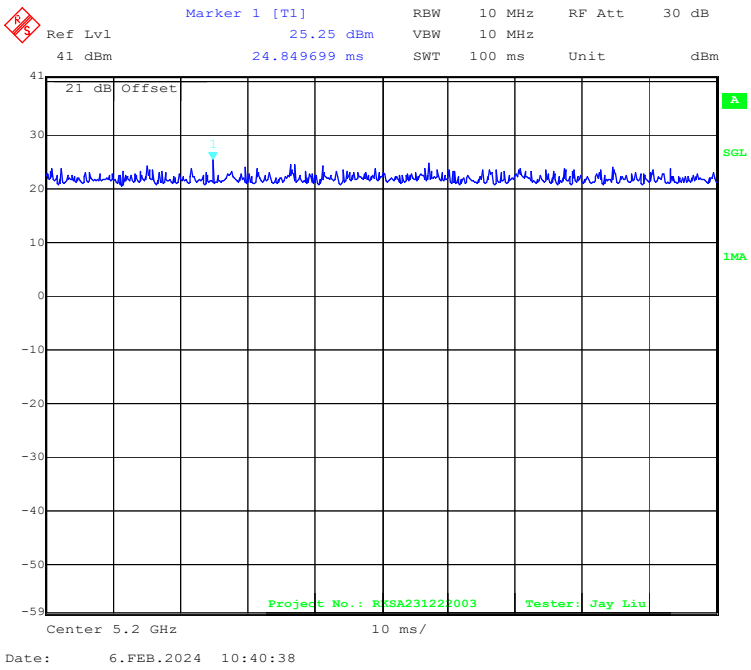
802.11n-HT40 mode



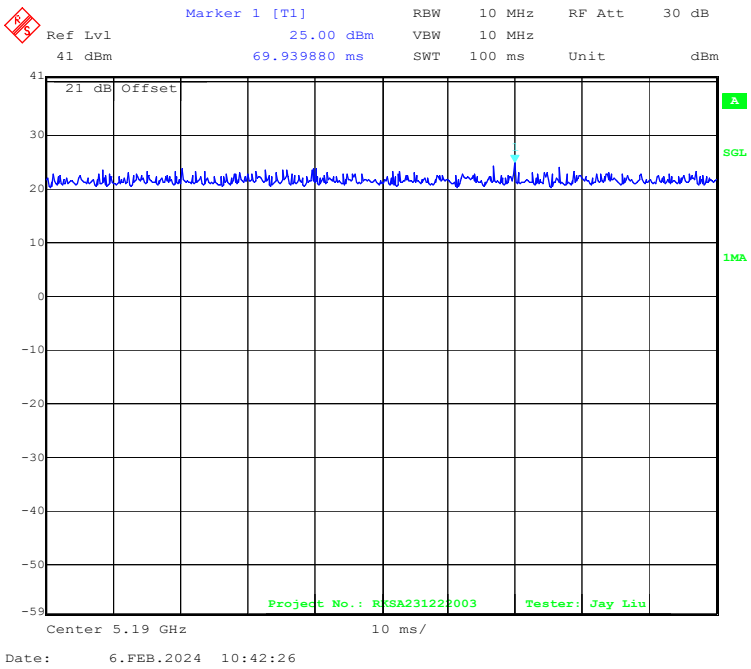
802.11ac80 mode



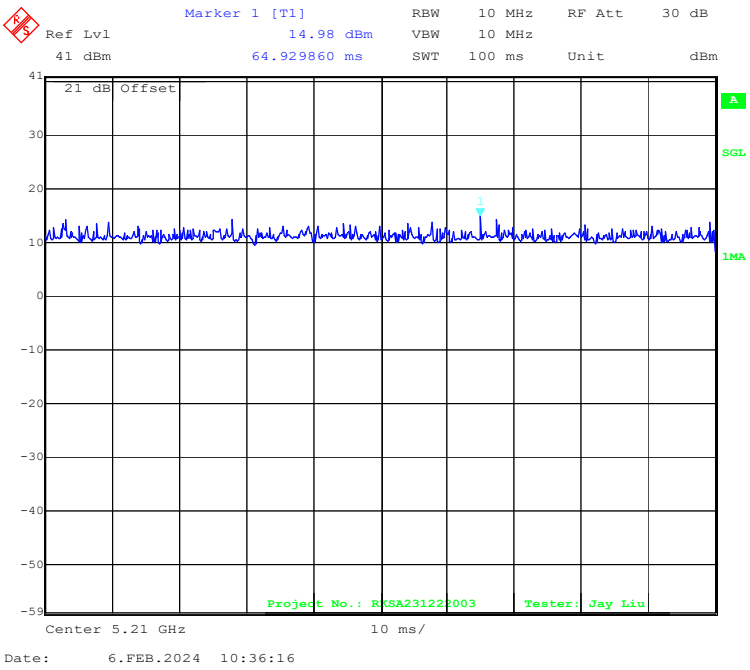
802.11ax-HE20 mode



802.11ax-HE40 mode



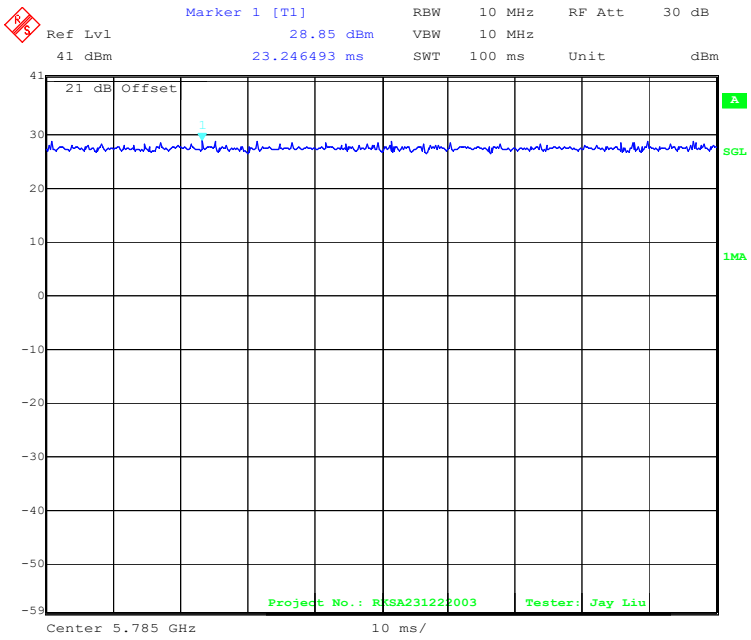
802.11ax-HE80 mode



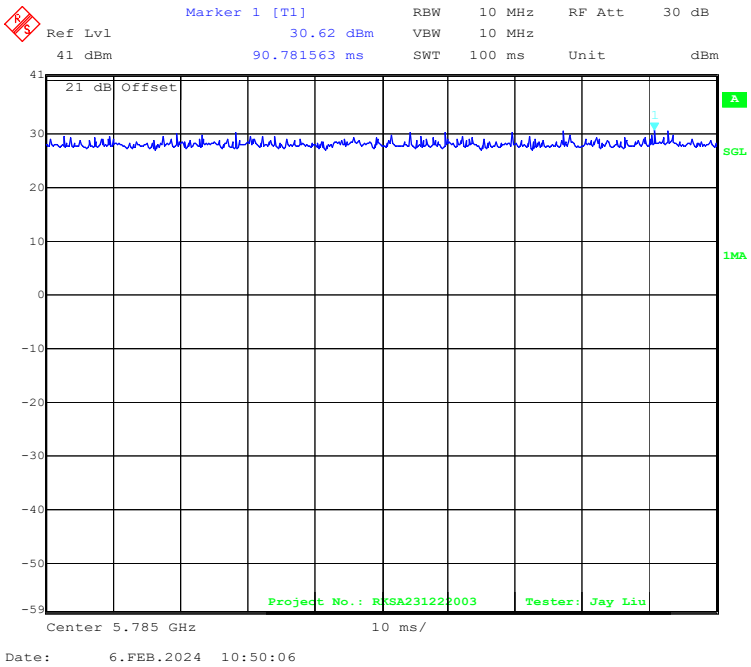
5725MHz-5850MHz Band:

Chain 0:

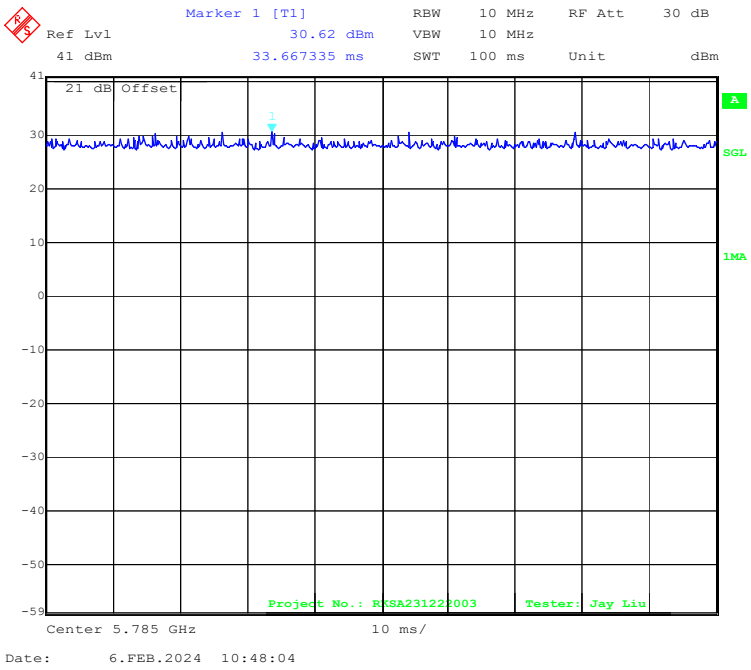
802.11a mode



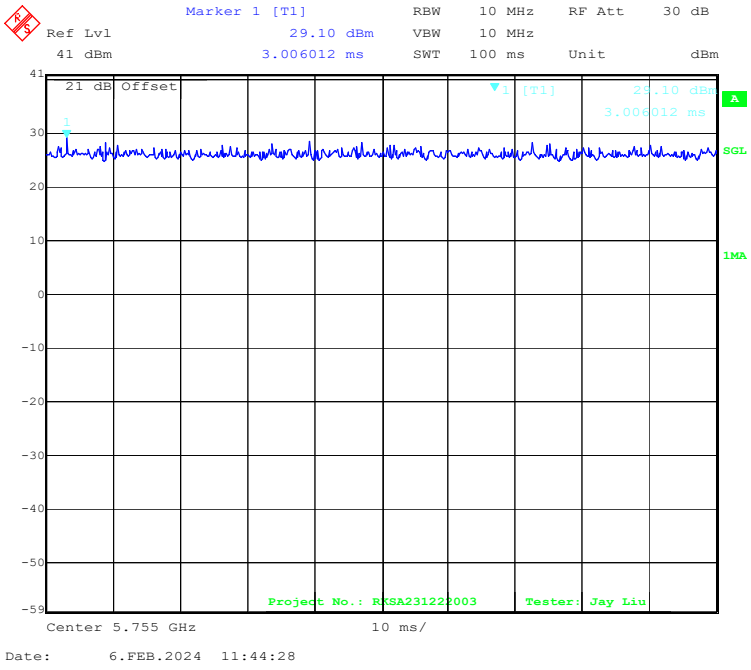
802.11ac20 mode



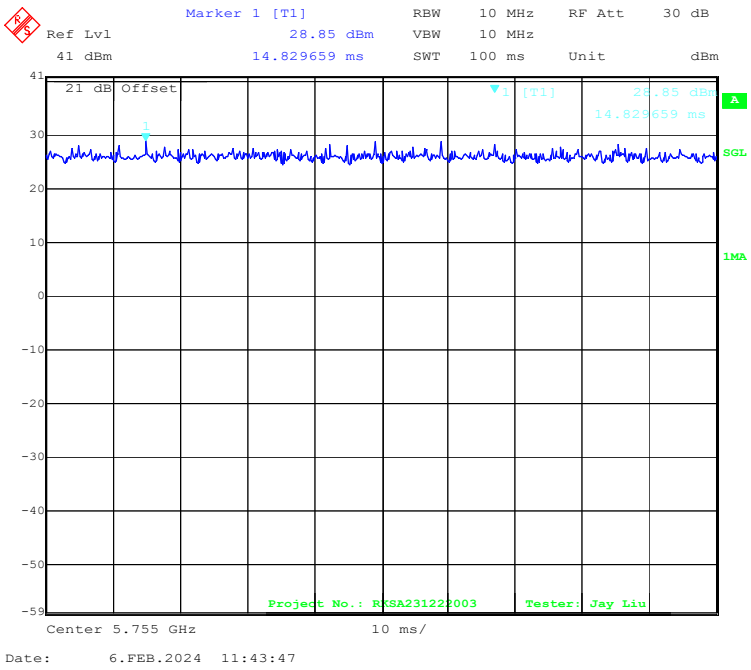
802.11n-HT20 mode



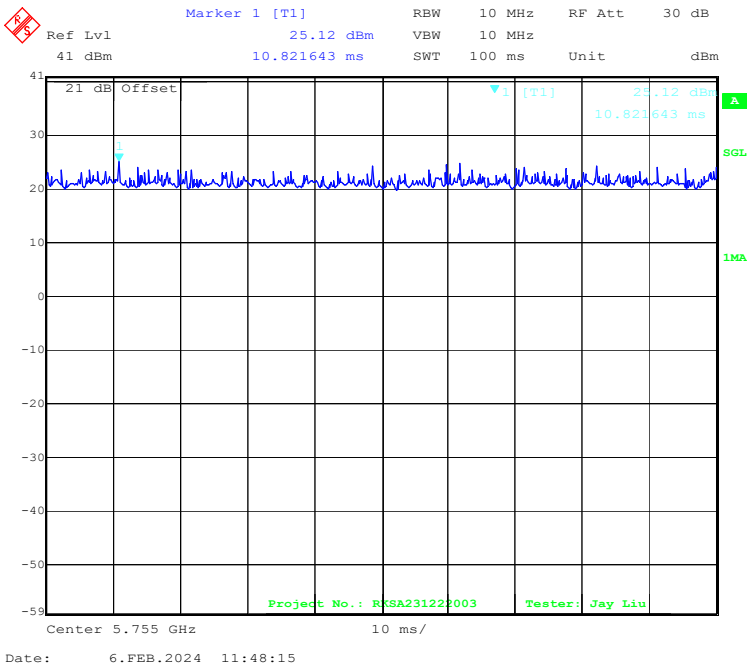
802.11ac40 mode



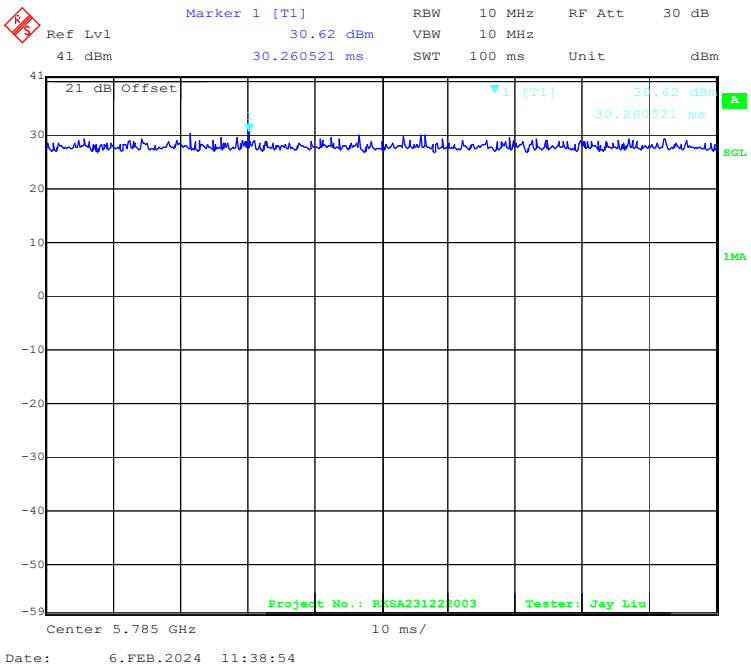
802.11n-HT40 mode



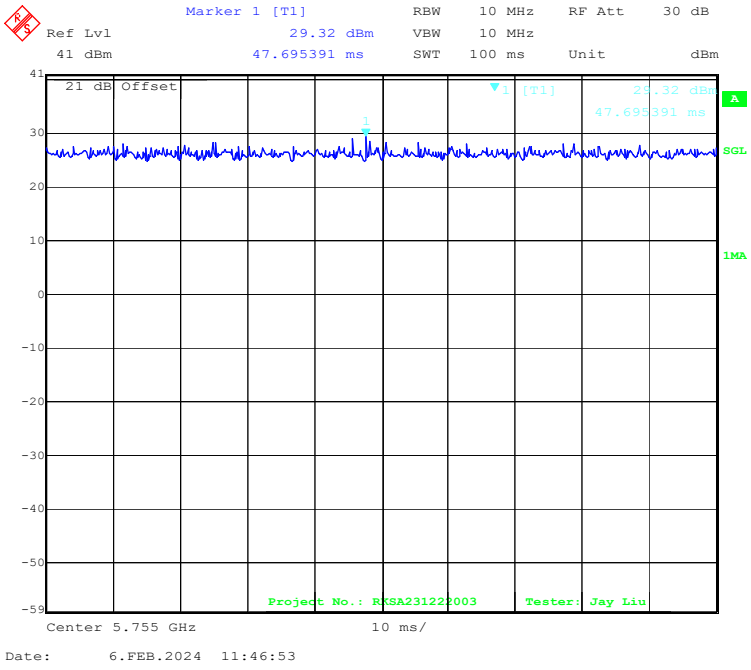
802.11ac80 mode



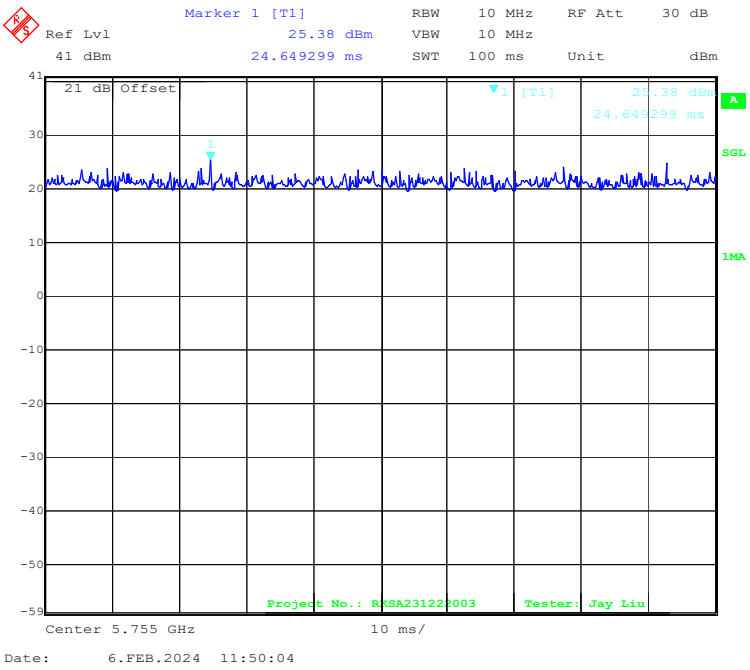
802.11ax-HE20 mode



802.11ax-HE40 mode

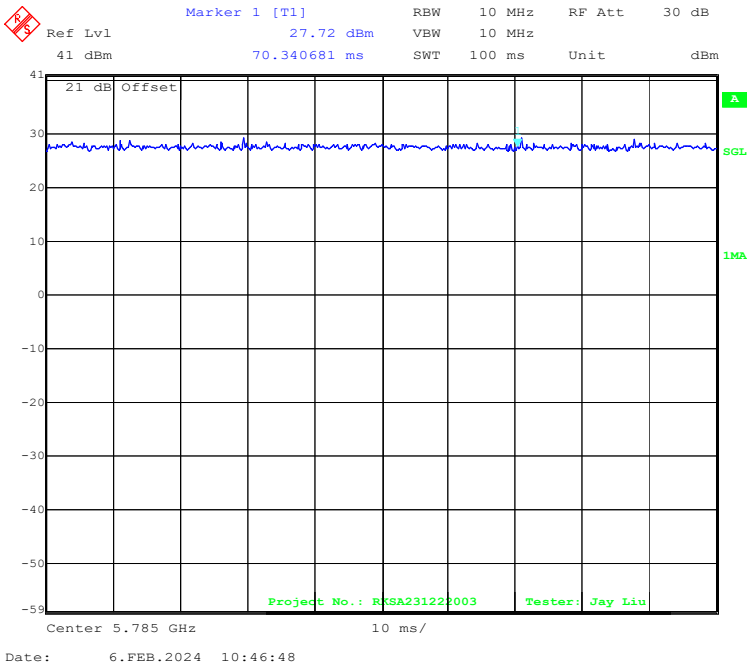


802.11ax-HE80 mode

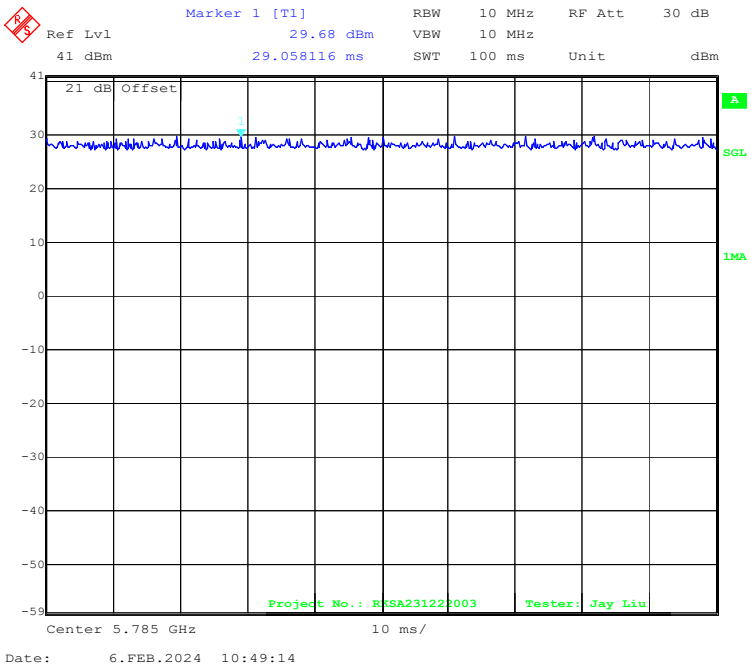


Chain 1:

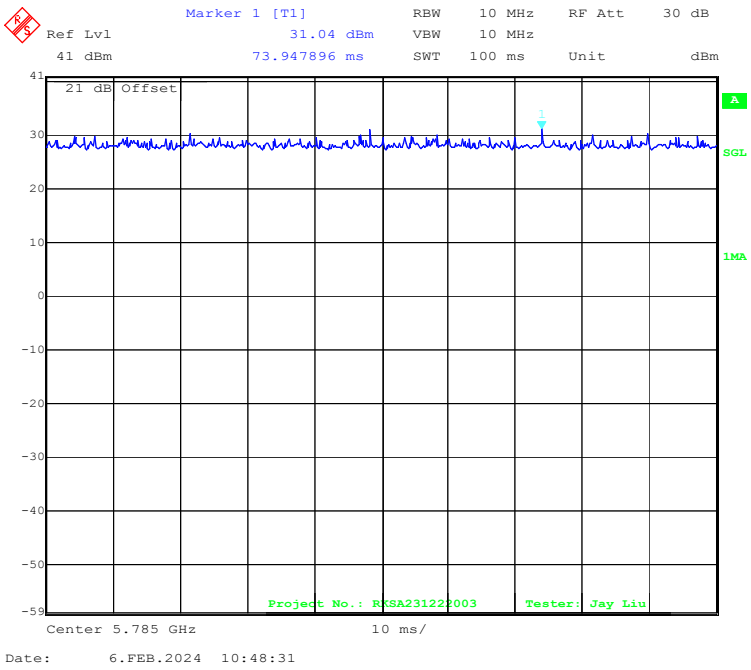
802.11a mode



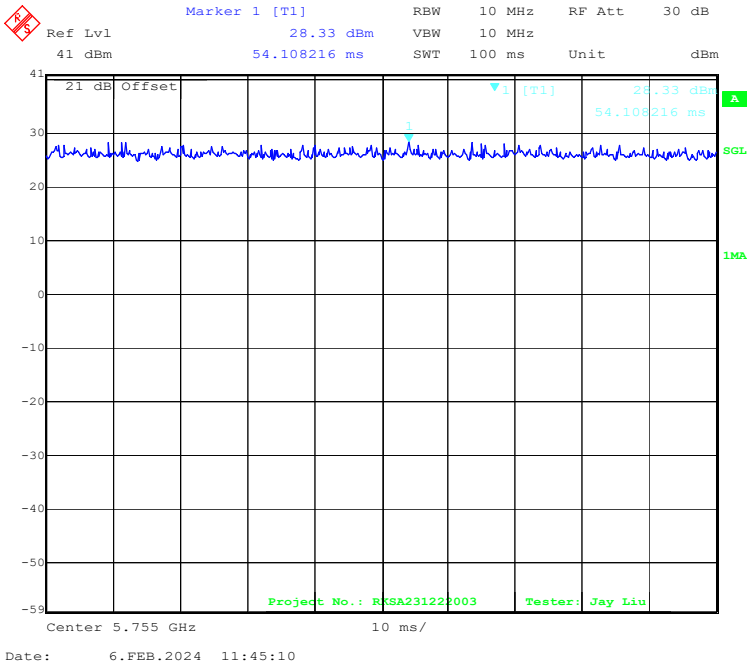
802.11ac20 mode



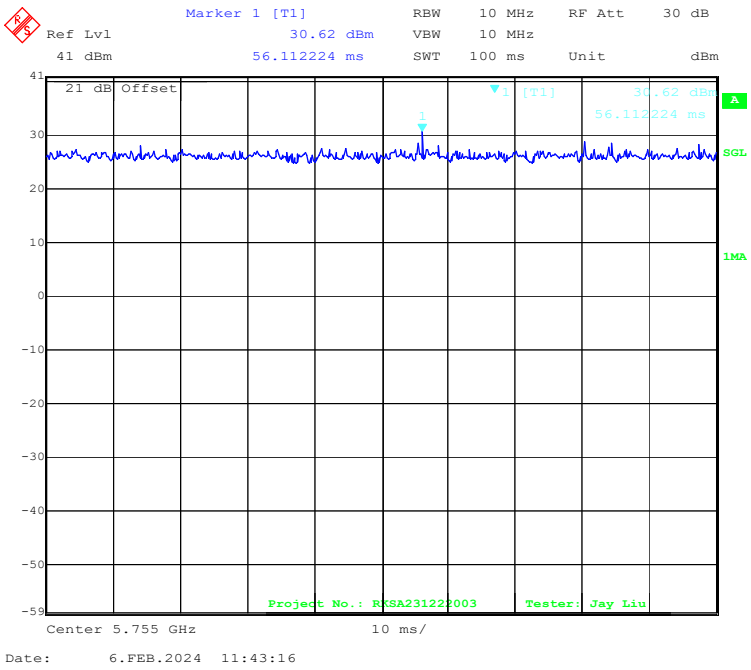
802.11n-HT20 mode



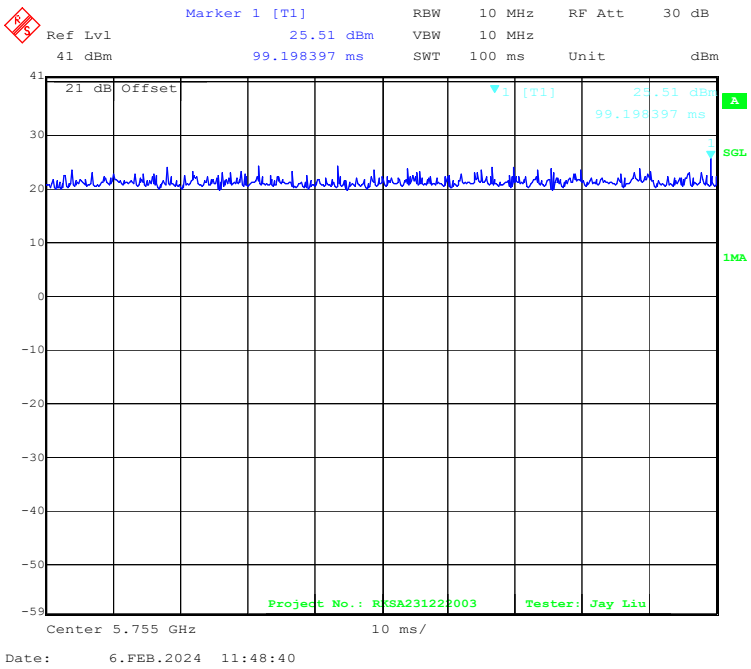
802.11ac40 mode



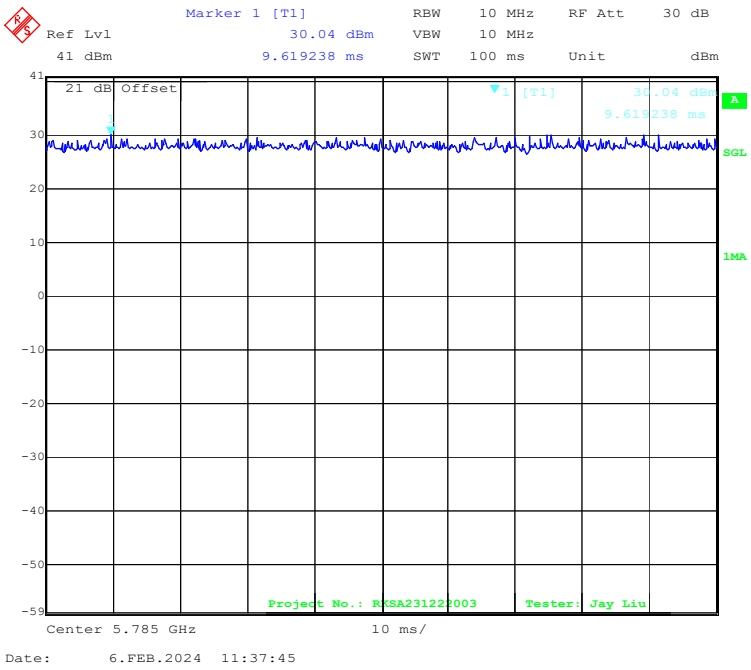
802.11n-HT40 mode



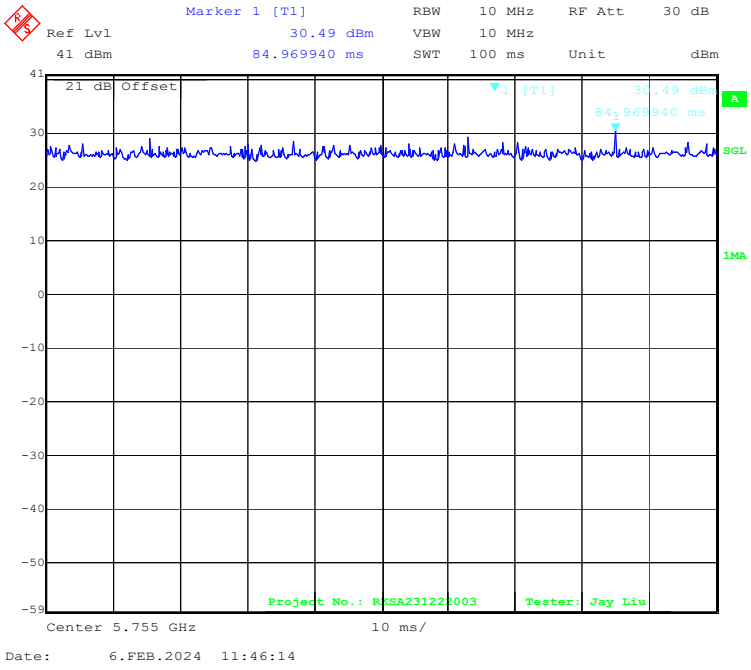
802.11ac80 mode



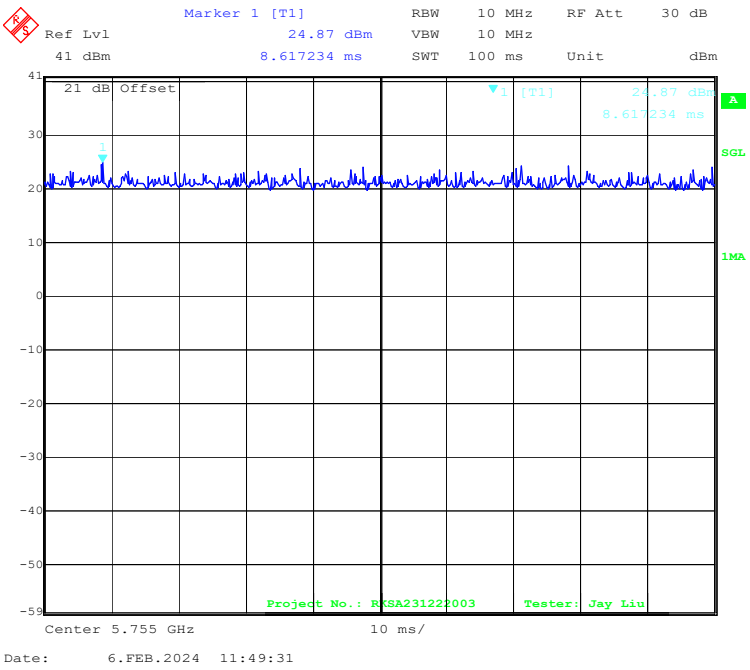
802.11ax-HE20 mode



802.11ax-HE40 mode



802.11ax-HE80 mode



Test Mode	Antenna	Channel (MHz)	Transmission Duration (ms)	Transmission Period	Duty Cycle (%)
802.11a	Chain0	5200	100	100.00	100.00
		5785	100	100.00	100.00
802.11n-HT20		5200	100	100.00	100.00
		5785	100	100.00	100.00
802.11n-HT40		5230	100	100.00	100.00
		5795	100	100.00	100.00
802.11ac-VHT20		5200	100	100.00	100.00
		5785	100	100.00	100.00
802.11ac-VHT40		5230	100	100.00	100.00
		5795	100	100.00	100.00
802.11ac-VHT80		5210	100	100.00	100.00
		5775	100	100.00	100.00
802.11ax-HE20		5200	100	100.00	100.00
		5785	100	100.00	100.00
802.11ax-HE40		5230	100	100.00	100.00
		5795	100	100.00	100.00
802.11ax-HE80		5210	100	100.00	100.00
		5775	100	100.00	100.00

Test Mode	Antenna	Channel (MHz)	Transmission Duration (ms)	Transmission Period	Duty Cycle (%)
802.11a	Chain1	5200	100	100.00	100.00
		5785	100	100.00	100.00
802.11n-HT20		5200	100	100.00	100.00
		5785	100	100.00	100.00
802.11n-HT40		5230	100	100.00	100.00
		5795	100	100.00	100.00
802.11ac-VHT20		5200	100	100.00	100.00
		5785	100	100.00	100.00
802.11ac-VHT40		5230	100	100.00	100.00
		5795	100	100.00	100.00
802.11ac-VHT80		5210	100	100.00	100.00
		5775	100	100.00	100.00
802.11ax-HE20		5200	100	100.00	100.00
		5785	100	100.00	100.00
802.11ax-HE40		5230	100	100.00	100.00
		5795	100	100.00	100.00
802.11ax-HE80		5210	100	100.00	100.00
		5775	100	100.00	100.00

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

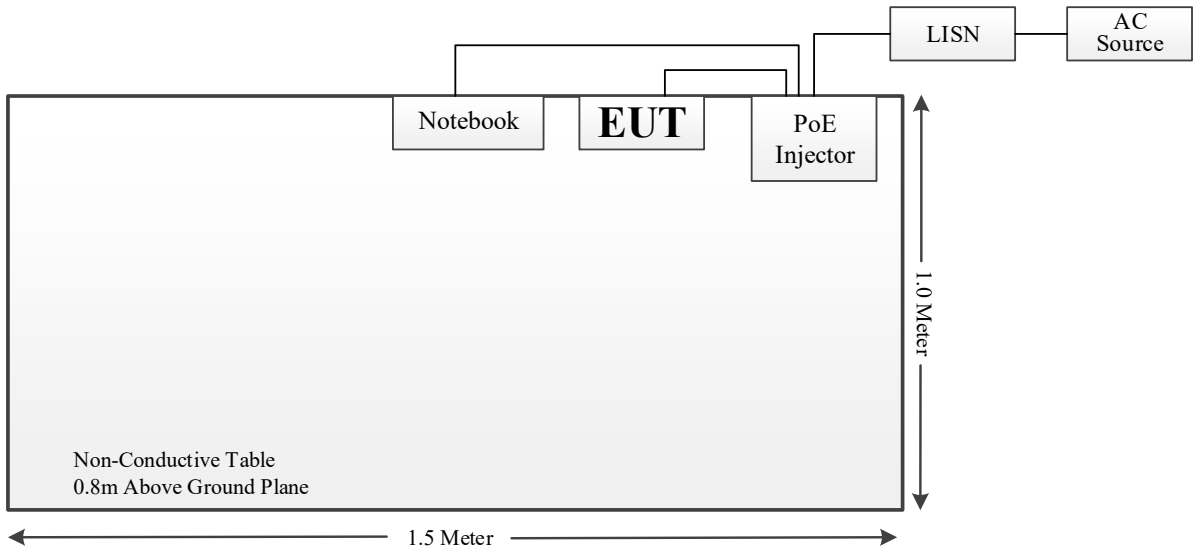
Manufacturer	Description	Model	Serial Number
Unknown	PoE Injector	PSE30G	Unknown
Lenovo	Notebook	Y700P	PF2B7PL5

External I/O Cable

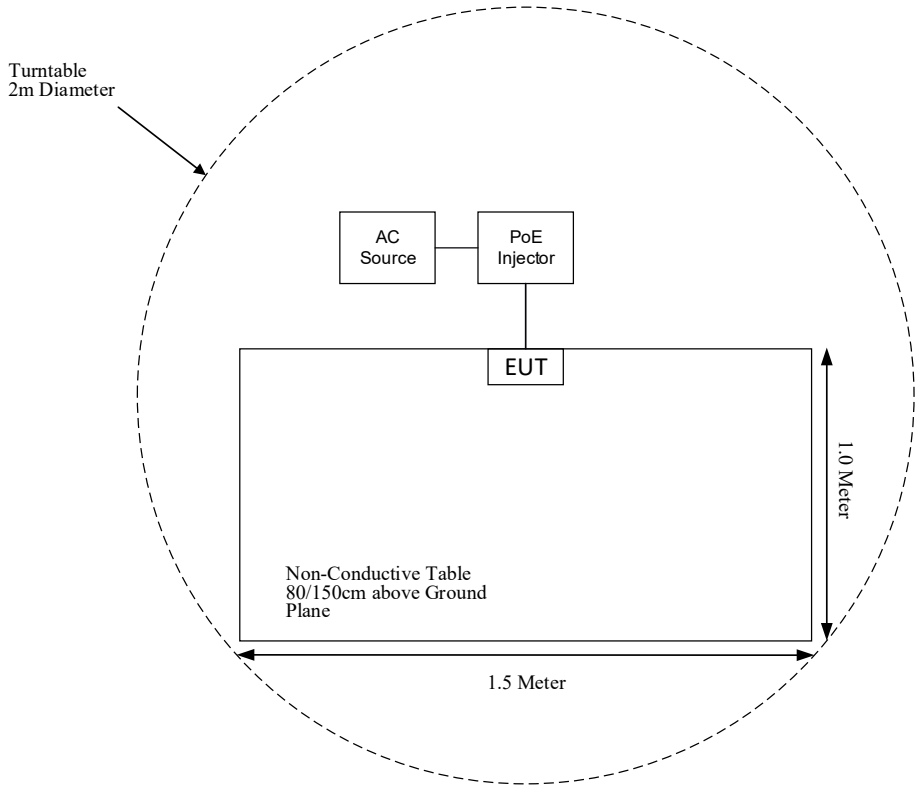
Cable Description	Length (m)	From Port	To
Power Cable 1	2.0	AC Source/LISN	PoE Injector
RJ45 Cable 2	3.0	PoE Injector	EUT
RJ45 Cable 2	1.5	PoE Injector	Notebook

Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions (Below 1GHz & Above 1 GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)(1)& §2.1091	RF Exposure Information	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 & §15.407(b) (9)	AC Power Line Conducted Emissions	Compliant
§ 15.205 & §15.209 & §15.407(b) (1), (4), (8), (9), (10)	Undesirable Emission & Restricted Bands	Compliant
§§15.407(a) &§15.407(e)	Emission Bandwidth	Compliant
§15.407(a) (1) (3)	Conducted Transmitter Output Power	Compliant
§15.407(a) (1) (3)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2023-05-23	2024-05-22
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2023-11-11	2024-11-10
ETS-LINDGREN	Loop Antenna	6512	108100	2023-11-09	2024-11-08
Sonoma Instrument	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
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2023-12-02	2024-12-01
ETS-LINDGREN	Horn Antenna	3116	84159	2023-12-07	2024-12-06
A.H.Systems,inc	Amplifier	PAM-0118P（2641-1）	512	2023-05-23	2024-05-22
EM Electronics Corporation	Amplifier	EM18G40G	060726	2023-05-23	2024-05-22
MICRO-TRONICS	Band Reject Filter	BRC50703	G094	2023-05-23	2024-05-22
MICRO-TRONICS	Band Reject Filter	BRC50705	G085	2023-05-23	2024-05-22
Narda	Attenuator	10dB	010	2023-05-23	2024-05-22
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-11	011	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-12	012	2023-05-23	2024-05-22
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2023-05-23	2024-05-22
Rohde & Schwarz	EMI Test Receiver	ESIB26	100146	2023-05-23	2024-05-22
Anritsu	Power Sensor	MA24418A	12621	2023-09-27	2024-09-26
Narda	Attenuator	10dB	010	2023-05-23	2024-05-22
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	101746	2023-05-23	2024-05-22
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	0357.8810.54	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 §1.1307(b) & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to 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/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/cm^2);
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);

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	4.9	3.09	23.0	199.53	20	0.1227	1.0
5G WIFI	5150~5250	10.1	10.23	20.50	112.20	20	0.2284	1.0
	5725~5850	10.6	11.48	25.00	316.23	20	0.7222	1.0

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

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 use a unique type of connector to attach to the EUT, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Model	Cable Length (mm)	Antenna Gain (dBi)	
			Band 1	Band 4
Directional patch antenna-1 chain 0	OLX23P-097100-A	425	9.5	9.5
Directional patch antenna-1 chain 1		460	9.4	9.7
Directional patch antenna-2 chain 0	OLX23P-097100-B	250	10.1	10.5
Directional patch antenna-2 chain 1		250	10.0	10.6
ROD-1	ALX19X-221050-00	150	4.80	4.70
ROD-2	DRA2G5GD002	150	4.95	5.04

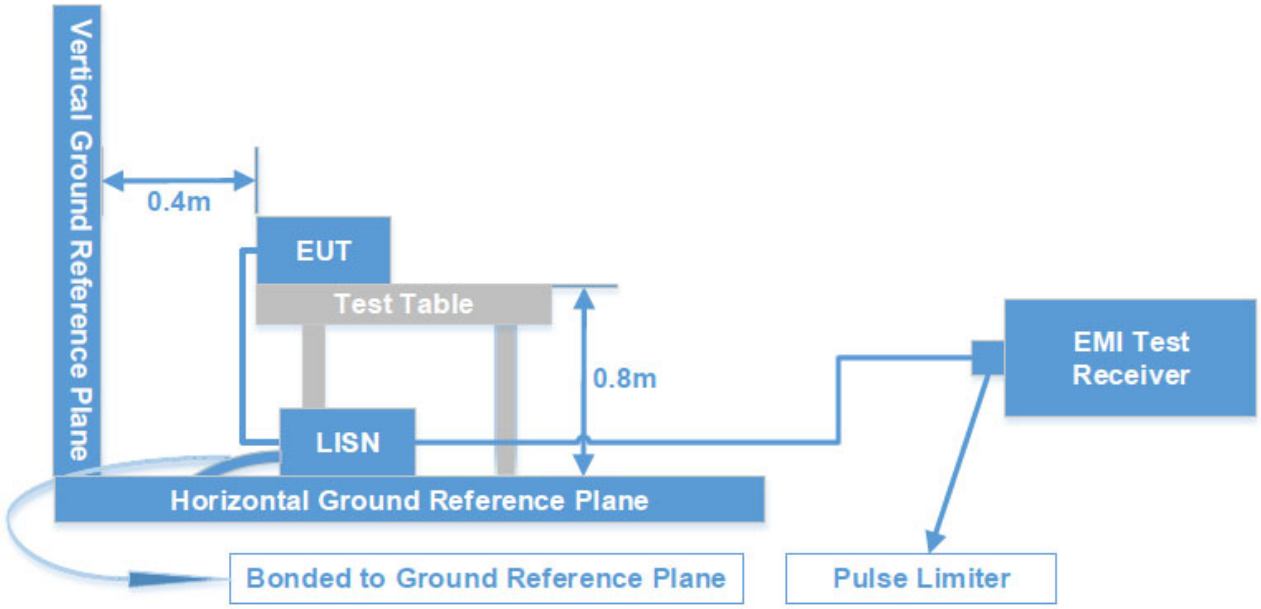
Result: Compliant.

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 C63.10-2013 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

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

During the conducted emission test, the PoE Injector 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.

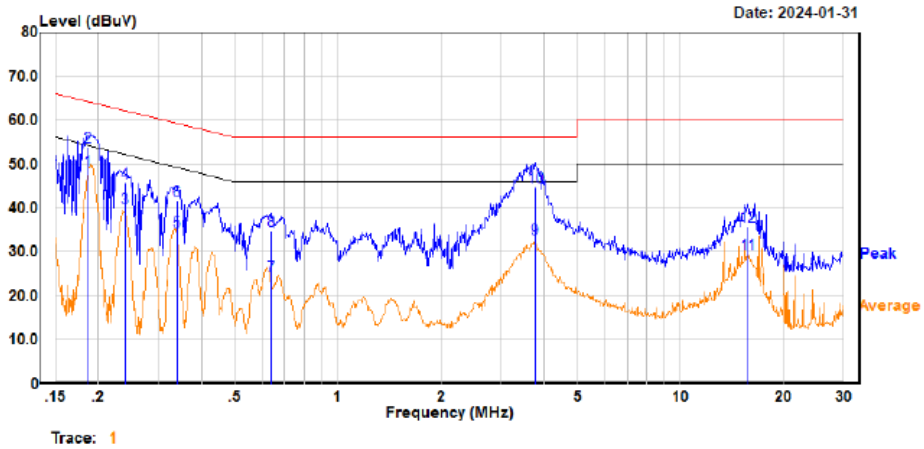
Test Data

Environmental Conditions & Test Information

Temperature:	23.1 ℃
Relative Humidity:	33 %
ATM Pressure:	102.2 kPa
Test Date:	2024-01-31
Test Engineer:	Aaron Sun

EUT operation mode: Transmitting in 802.11n40 mode High channel with Directional patch antenna-2 of 5150~5250MHz (maximum output power mode).

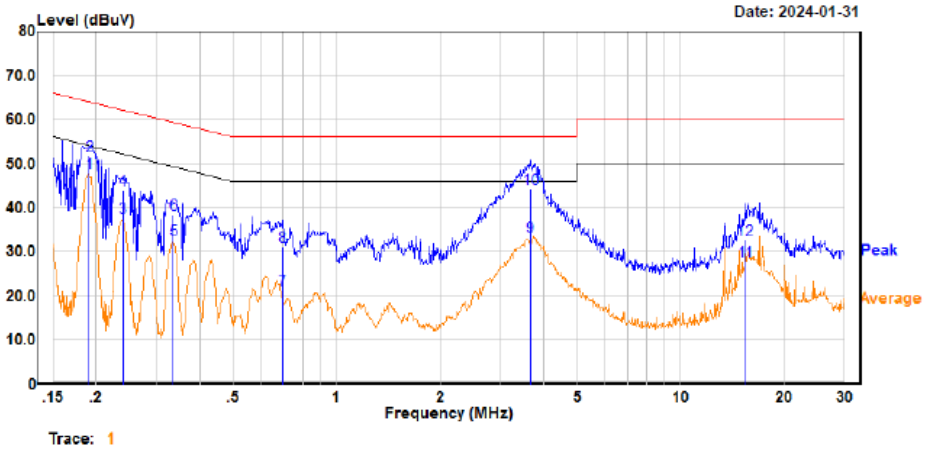
AC 120V/60 Hz, Line



Site : CE
Condition : FCC Part 15.207
: DET:Peak
Model : MWC-708
Phase : L
Voltage : 120V/60Hz
Mode : Transmitting in 802.11n40 Mode High channel (worst case)
Test Equipment : ENV216,ESR
Temperature : 23.1℃
Humidity : 33%
Atmospheric pressure: 102.2kPa
Test Engineer : Aaron Sun

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.187	28.60	19.93	48.53	54.18	-5.65	Average
2	0.187	34.00	19.93	53.93	64.18	-10.25	QP
3	0.240	19.80	19.98	39.78	52.11	-12.33	Average
4	0.240	25.80	19.98	45.78	62.11	-16.33	QP
5	0.340	14.60	20.04	34.64	49.21	-14.57	Average
6	0.340	21.60	20.04	41.64	59.21	-17.57	QP
7	0.640	4.40	20.08	24.48	46.00	-21.52	Average
8	0.640	14.80	20.08	34.88	56.00	-21.12	QP
9	3.772	12.50	20.28	32.78	46.00	-13.22	Average
10	3.772	24.50	20.28	44.78	56.00	-11.22	QP
11	15.693	9.69	19.81	29.50	50.00	-20.50	Average
12	15.693	15.99	19.81	35.80	60.00	-24.20	QP

AC 120V/60 Hz, Neutral



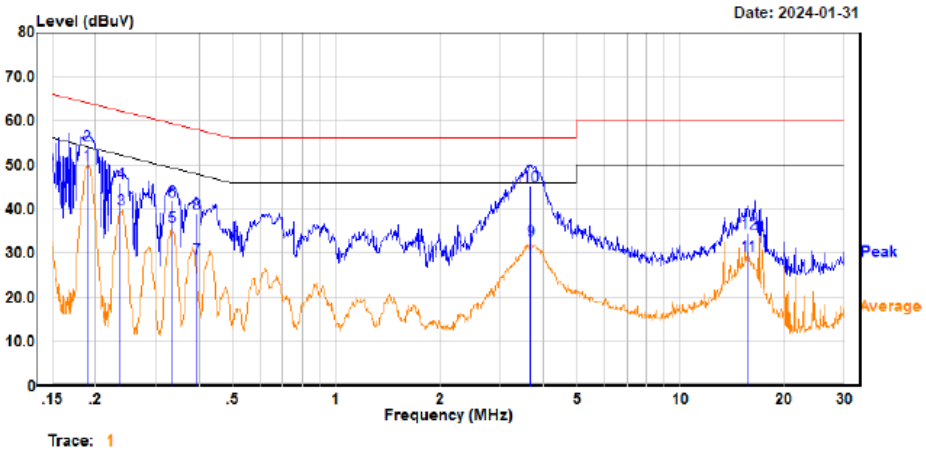
Trace: 1

Site : CE
Condition : FCC Part 15.207
: DET:Peak
Model : MWC-708
Phase : N
Voltage : 120V/60Hz
Mode : Transmitting in 802.11n40 Mode high channel (worst case)
Test Equipment : ENV216,ESR
Temperature : 23.1℃
Humidity : 33%
Atmospheric pressure: 102.2kPa
Test Engineer : Aaron Sun

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.192	27.90	19.94	47.84	53.97	-6.13	Average
2	0.192	31.80	19.94	51.74	63.97	-12.23	QP
3	0.240	17.80	19.98	37.78	52.11	-14.33	Average
4	0.240	24.00	19.98	43.98	62.11	-18.13	QP
5	0.336	12.69	20.04	32.73	49.29	-16.56	Average
6	0.336	18.49	20.04	38.53	59.29	-20.76	QP
7	0.696	1.20	20.07	21.27	46.00	-24.73	Average
8	0.696	11.10	20.07	31.17	56.00	-24.83	QP
9	3.661	13.09	20.28	33.37	46.00	-12.63	Average
10	3.661	23.99	20.28	44.27	56.00	-11.73	QP
11	15.384	8.00	19.80	27.80	50.00	-22.20	Average
12	15.384	12.90	19.80	32.70	60.00	-27.30	QP

EUT operation mode: Transmitting in 802.11n40 mode low channel with Directional patch antenna-2 of 5725~5850MHz (maximum output power mode).

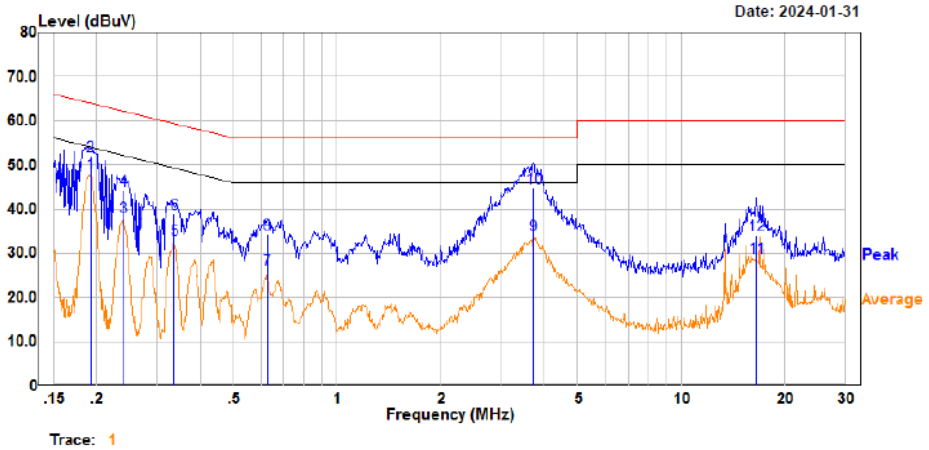
AC 120V/60 Hz, Line



Site : CE
Condition : FCC Part 15.207
: DET:Peak
Model : MWC-708
Phase : L
Voltage : 120V/60Hz
Mode : Transmitting in 802.11n40 Mode low channel (worst case)
Test Equipment : ENV216,ESR
Temperature : 23.1℃
Humidity : 33%
Atmospheric pressure: 102.2kPa
Test Engineer : Aaron Sun

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.190	30.10	19.94	50.04	54.05	-4.01	Average
2	0.190	34.40	19.94	54.34	64.05	-9.71	QP
3	0.237	19.90	19.98	39.88	52.19	-12.31	Average
4	0.237	26.00	19.98	45.98	62.19	-16.21	QP
5	0.335	15.99	20.04	36.03	49.33	-13.30	Average
6	0.335	21.89	20.04	41.93	59.33	-17.40	QP
7	0.394	8.70	20.06	28.76	47.97	-19.21	Average
8	0.394	18.90	20.06	38.96	57.97	-19.01	QP
9	3.680	12.49	20.28	32.77	46.00	-13.23	Average
10	3.680	24.99	20.28	45.27	56.00	-10.73	QP
11	15.772	9.79	19.81	29.60	50.00	-20.40	Average
12	15.772	14.79	19.81	34.60	60.00	-25.40	QP

AC 120V/60 Hz, Neutral



Site : CE
Condition : FCC Part 15.207
: DET:Peak
Model : MWC-708
Phase : N
Voltage : 120V/60Hz
Mode : Transmitting in 802.11n40 Mode low channel (worst case)
Test Equipment : ENV216,ESR
Temperature : 23.1℃
Humidity : 33%
Atmospheric pressure: 102.2kPa
Test Engineer : Aaron Sun

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.192	28.10	19.94	48.04	53.93	-5.89	Average
2	0.192	32.00	19.94	51.94	63.93	-11.99	QP
3	0.238	18.10	19.98	38.08	52.15	-14.07	Average
4	0.238	24.20	19.98	44.18	62.15	-17.97	QP
5	0.336	12.99	20.04	33.03	49.29	-16.26	Average
6	0.336	18.89	20.04	38.93	59.29	-20.36	QP
7	0.627	6.20	20.08	26.28	46.00	-19.72	Average
8	0.627	14.30	20.08	34.38	56.00	-21.62	QP
9	3.716	13.69	20.28	33.97	46.00	-12.03	Average
10	3.716	24.49	20.28	44.77	56.00	-11.23	QP
11	16.495	9.10	19.81	28.91	50.00	-21.09	Average
12	16.495	14.20	19.81	34.01	60.00	-25.99	QP

§15.205 & §15.209 & §15.407(B) (1), (4), (8), (9), (10) – UNDESIRABLE EMISSION & RESTRICTED BANDS

Applicable Standard

FCC §15.407 (b) (1), (4), (8), (9); §15.209; §15.205;

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.

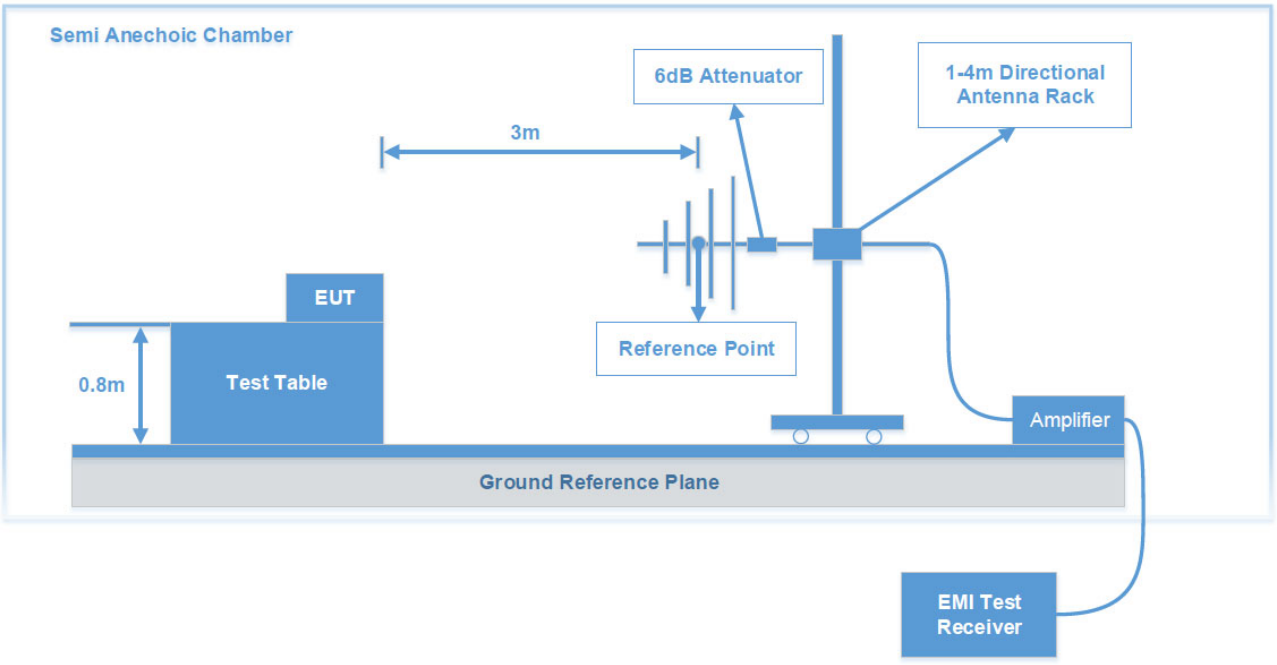
For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to 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 frenquency or frequencies above 1000MHz,the radiated emission limits are based on the use of measurement instrunmentation employing an average detector function. Unless otherwise specified, measurements above 1000MHz shall be performed using a minimum resolution bandwidth of 1MHz.

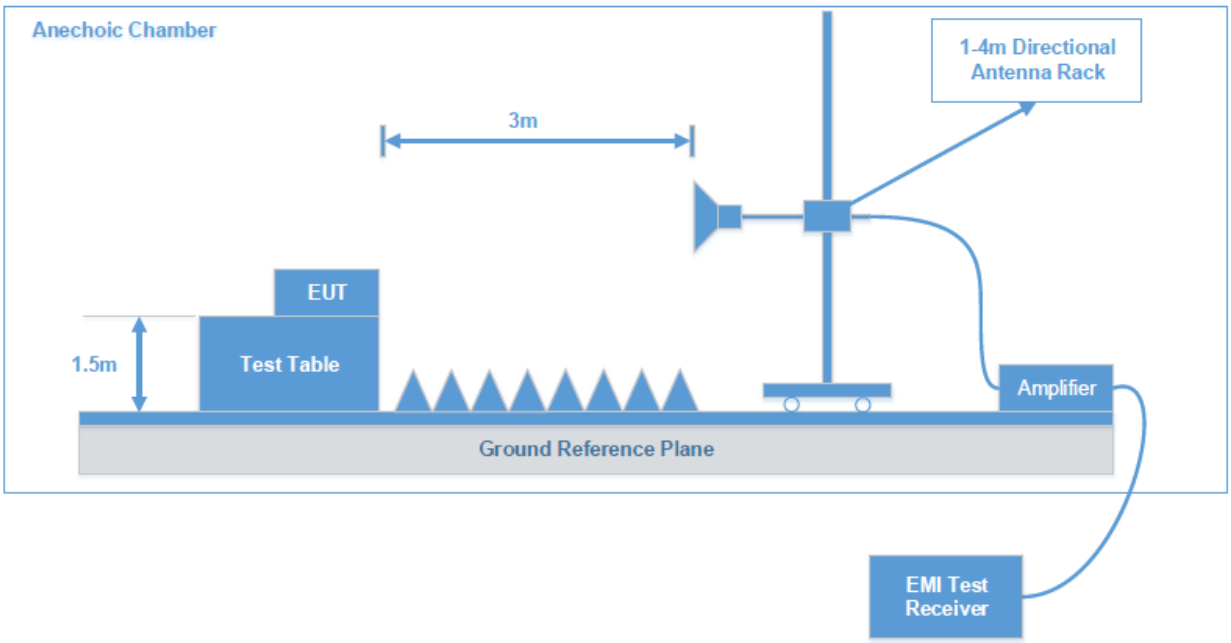
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: E [dBμV/m] = EIRP [dBm] + 95.2, for d = 3 meters.

Test System Setup

Below 1 GHz:



1 GHz-18GHz:



18-40GHz test at 1.5m distance

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with 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

The system was investigated from 9 kHz to 40 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	300 Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	9 kHz	QP/AV
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	PK
Above 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	3 MHz	/	AV

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.

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)

Test Data

Environmental Conditions & Test Information

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	16.1 ℃	20.8-23.8 ℃
Relative Humidity:	36 %	44-55 %
ATM Pressure:	103.6 kPa	102.3-103.6 kPa
Test Date:	2024-01-24	2024-01-24 to 2024-02-04
Test Engineer:	Joe Zhang	Peter Wang

Test Mode: Transmitting

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

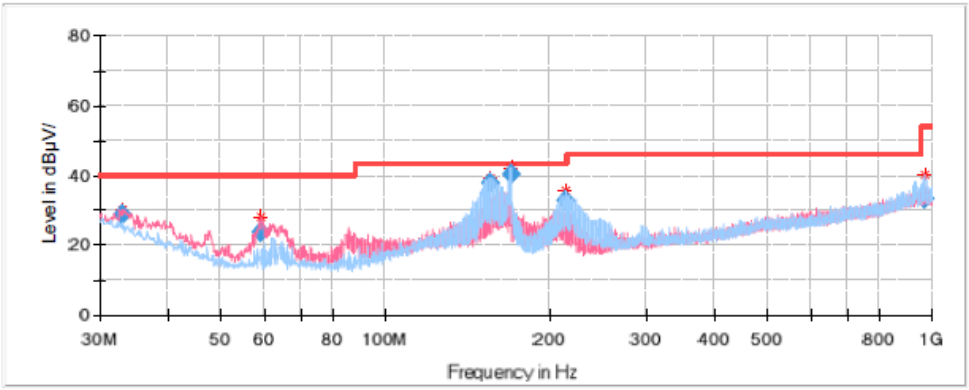
***9kHz-30MHz** :Transmitting in 802.11n40 mode low channel with Directional patch antenna-2 of 5725~5850MHz (maximum output power mode).*

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

30MHz-1GHz(5150-5250MHz Band): 802.11n40 with Directional patch antenna-2 (worst case)

Common Information

Project No:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	Transmitting in 802.11n40 mode low channel
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.407
Test Equipment:	ESCI、JB3、310N
Temperature:	16.1℃
Humidity:	36%
Barometric Pressure:	103.6kPa
Test Engineer:	Joe Zhang
Test Date:	2024/1/24

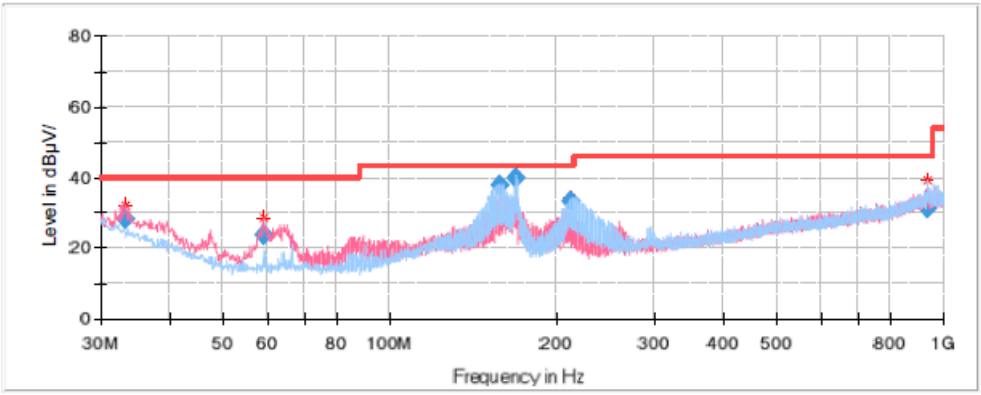


Final_Result

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
32.910000	28.72	40.00	11.28	V	-5.8
59.220000	23.63	40.00	16.37	V	-17.4
155.490000	37.54	43.50	5.96	H	-12.4
169.430000	40.13	43.50	3.37	H	-12.9
213.810000	32.78	43.50	10.72	H	-13.5
967.500000	33.02	53.90	20.88	H	1.6

Common Information

Project No:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	Transmitting in 802.11n40 mode middle channel
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.407
Test Equipment:	ESCI、JB3、310N
Temperature:	16.1℃
Humidity:	36%
Barometric Pressure:	103.6kPa
Test Engineer:	Joe Zhang
Test Date:	2024/1/24

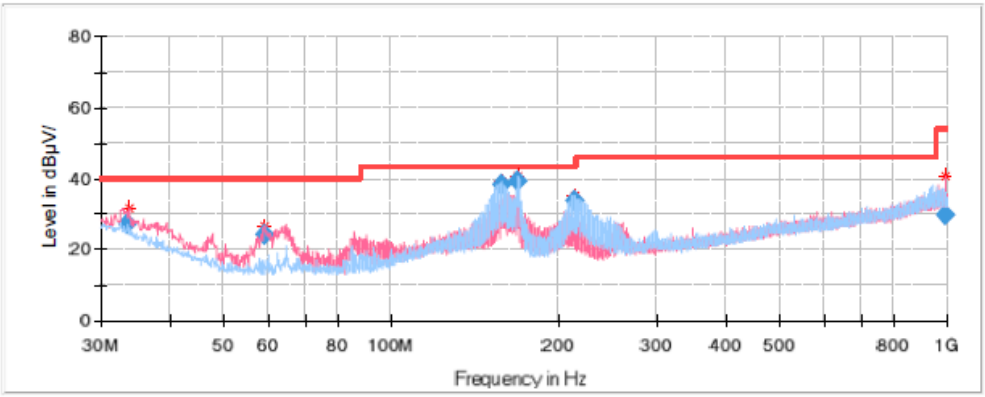


Final_Result

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
33.150000	28.39	40.00	11.61	V	-6.6
58.970000	23.59	40.00	16.41	V	-17.4
158.040000	37.67	43.50	5.83	H	-12.5
168.830000	39.97	43.50	3.53	H	-12.9
211.990000	33.26	43.50	10.24	H	-13.3
936.100000	31.43	46.00	14.57	H	1.4

Common Information

Project No:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	Transmitting in 802.11n40 mode high channel
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.407
Test Equipment:	ESCI、JB3、310N
Temperature:	16.1℃
Humidity:	36%
Barometric Pressure:	103.6kPa
Test Engineer:	Joe Zhang
Test Date:	2024/1/24



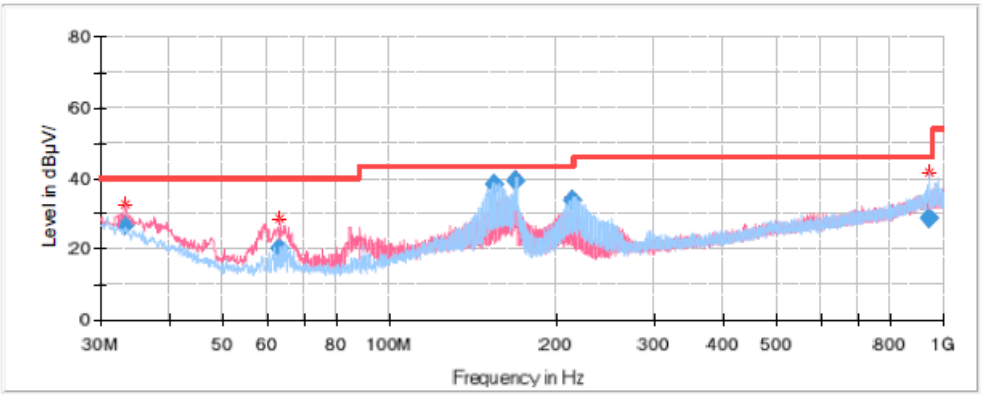
Final_Result

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
33.630000	27.38	40.00	12.62	V	-6.6
58.970000	24.17	40.00	15.83	V	-17.4
158.040000	38.06	43.50	5.44	H	-12.4
168.710000	39.41	43.50	4.09	H	-12.9
213.200000	33.68	43.50	9.82	H	-13.4
995.150000	29.51	53.90	24.39	V	1.7

30MHz-1GHz(5725-5850MHz Band): 802.11n40 with Directional patch antenna-2 (worst case)

Common Information

Project No:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	Transmitting in 802.11n40 mode low channel
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.407
Test Equipment:	ESCI、JB3、310N
Temperature:	16.1℃
Humidity:	36%
Barometric Pressure:	103.6kPa
Test Engineer:	Joe Zhang
Test Date:	2024/1/24

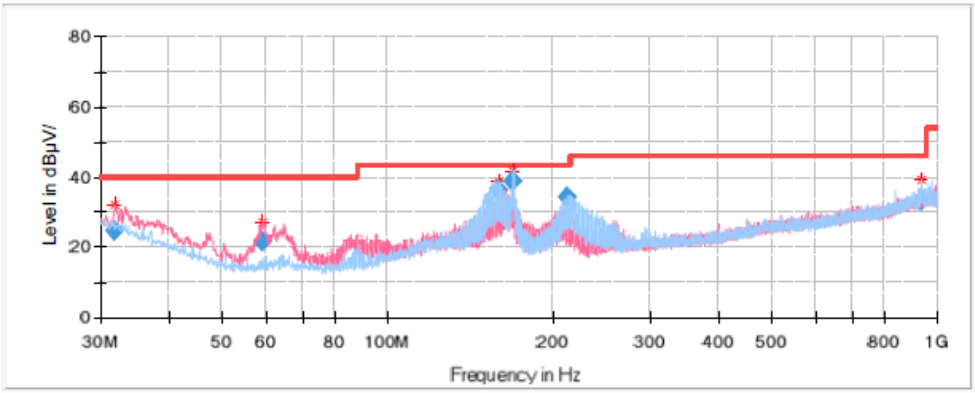


Final_Result

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
33.150000	26.49	40.00	13.51	V	-6.5
63.340000	20.31	40.00	19.69	V	-17.3
154.880000	38.36	43.50	5.14	H	-12.3
168.830000	39.34	43.50	4.16	H	-12.9
214.540000	33.60	43.50	9.90	H	-13.5
943.610000	28.56	46.00	17.44	H	1.5

Common Information

Project No:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	Transmitting in 802.11n40 mode middle channel
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.407
Test Equipment:	ESCI、JB3、310N
Temperature:	16.1℃
Humidity:	36%
Barometric Pressure:	103.6kPa
Test Engineer:	Joe Zhang
Test Date:	2024/1/24

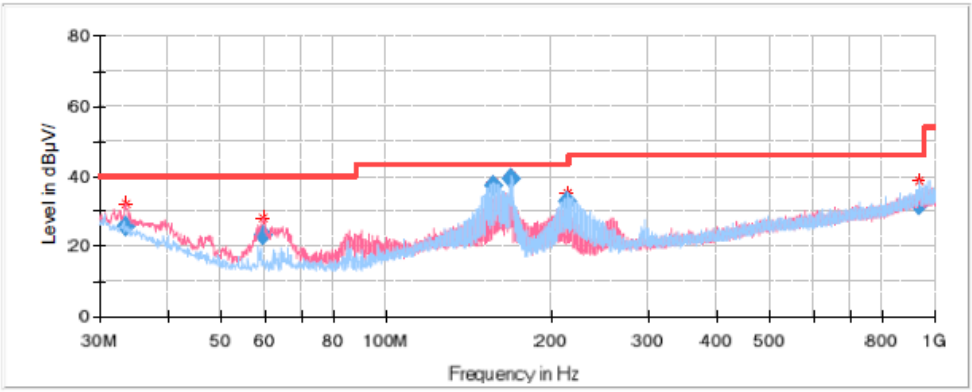


Final_Result

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.940000	24.62	40.00	15.38	V	-6.2
59.220000	21.71	40.00	18.29	V	-17.4
158.760000	36.06	43.50	7.44	H	-12.5
169.310000	38.77	43.50	4.73	H	-12.9
212.600000	34.04	43.50	9.46	H	-13.3
934.880000	33.16	46.00	12.84	H	1.4

Common Information

Project No:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	Transmitting in 802.11n40 mode high channel
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.407
Test Equipment:	ESCI、JB3、310N
Temperature:	16.1℃
Humidity:	36%
Barometric Pressure:	103.6kPa
Test Engineer:	Joe Zhang
Test Date:	2024/1/24



Final_Result

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
33.390000	25.87	40.00	14.13	V	-6.2
59.580000	23.10	40.00	16.90	V	-17.5
156.220000	37.45	43.50	6.05	H	-12.4
169.310000	39.08	43.50	4.42	H	-12.9
213.330000	32.88	43.50	10.62	H	-13.4
937.190000	31.57	46.00	14.43	H	1.4

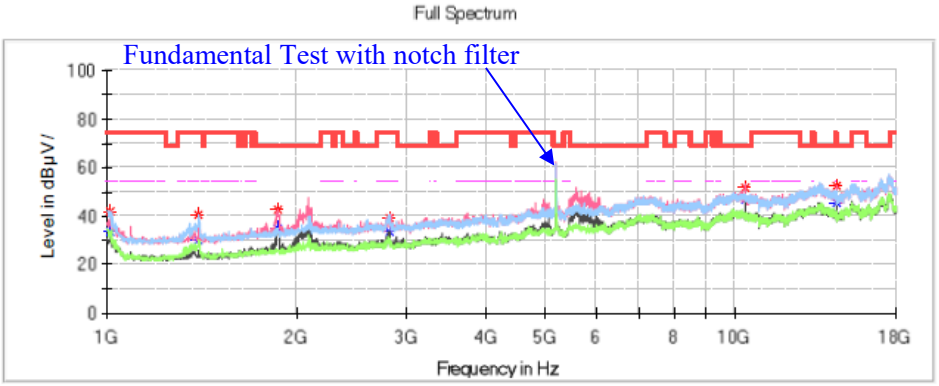
For directional patch antenna-2
1GHz-18GHz(5150-5250MHz Band):

802.11a Mode:

Low Channel: 5180MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Low Channel of Chain 0
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



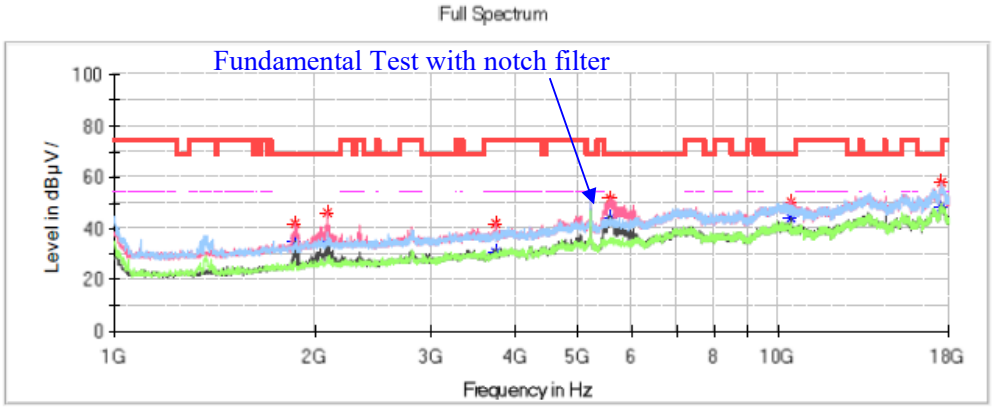
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1010.200000	---	33.74	54.00	20.26	H	-15.5
1010.200000	42.07	---	74.00	31.93	H	-15.5
1401.200000	---	30.07	54.00	23.93	H	-14.2
1401.200000	40.53	---	74.00	33.47	H	-14.2
1867.000000	42.65	---	68.20	25.55	V	-11.5
2810.500000	---	33.46	54.00	20.54	V	-8.7
2810.500000	39.23	---	74.00	34.77	V	-8.7
10360.200000	52.09	---	68.20	16.11	V	7.4
14472.500000	---	45.60	54.00	8.40	V	8.3
14472.500000	52.15	---	74.00	21.85	V	8.3

Middle Channel: 5200MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Middle Channel of Chain 0
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



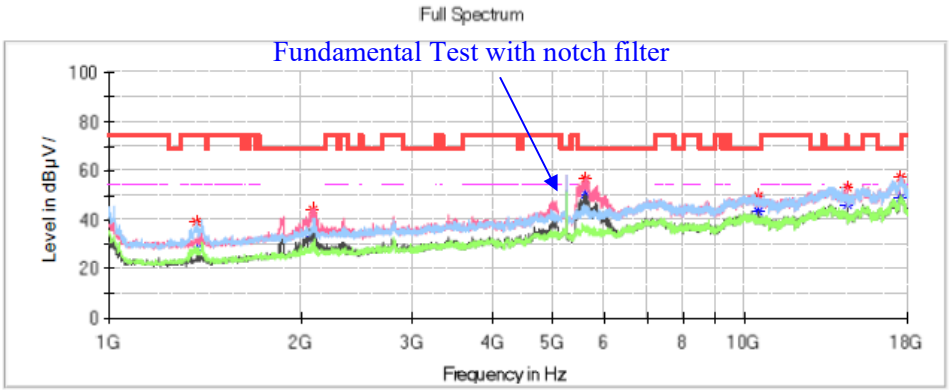
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1867.000000	42.10	---	68.20	26.10	V	-11.5
2088.000000	46.21	---	68.20	21.99	V	-10.4
3747.200000	---	30.71	54.00	23.29	V	-5.6
3747.200000	41.73	---	74.00	32.27	V	-5.6
5567.900000	51.46	---	68.20	16.74	V	0.8
10404.400000	50.15	---	68.20	18.05	V	7.4
17566.500000	58.17	---	68.20	10.03	V	13.3

High Channel: 5240MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode High Channel of Chain 0
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

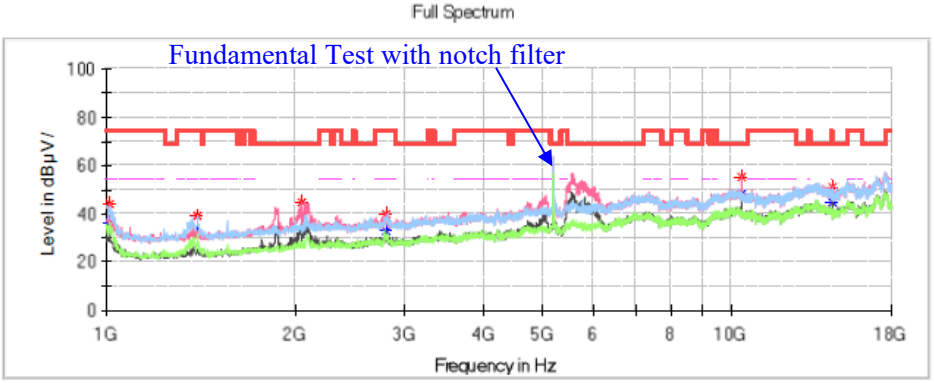
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1375.700000	---	28.13	54.00	25.87	H	-14.3
1375.700000	39.07	---	74.00	34.93	H	-14.3
2086.300000	43.93	---	68.20	24.27	V	-10.4
5608.700000	56.67	---	68.20	11.53	V	0.7
10479.200000	49.49	---	68.20	18.71	V	7.3
14472.500000	---	45.93	54.00	8.07	V	8.3
14472.500000	52.90	---	74.00	21.10	V	8.3

802.11a Mode:

Low Channel: 5180MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Low Channel of Chain1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



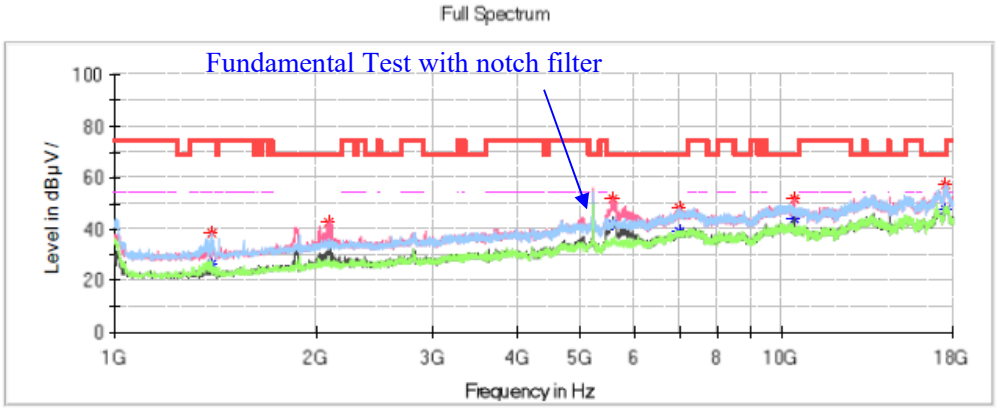
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1013.600000	---	36.40	54.00	17.60	H	-15.5
1013.600000	44.29	---	74.00	29.71	H	-15.5
1399.500000	---	31.24	54.00	22.76	H	-14.2
1399.500000	39.06	---	74.00	34.94	H	-14.2
2047.200000	44.65	---	68.20	23.55	V	-10.5
2800.300000	---	32.54	54.00	21.46	V	-8.7
2800.300000	39.62	---	74.00	34.38	V	-8.7
10360.200000	55.28	---	68.20	12.92	V	7.4
14472.500000	---	45.07	54.00	8.93	V	8.3
14472.500000	51.06	---	74.00	22.94	V	8.3

Middle Channel: 5200MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Middle Channel of Chain1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

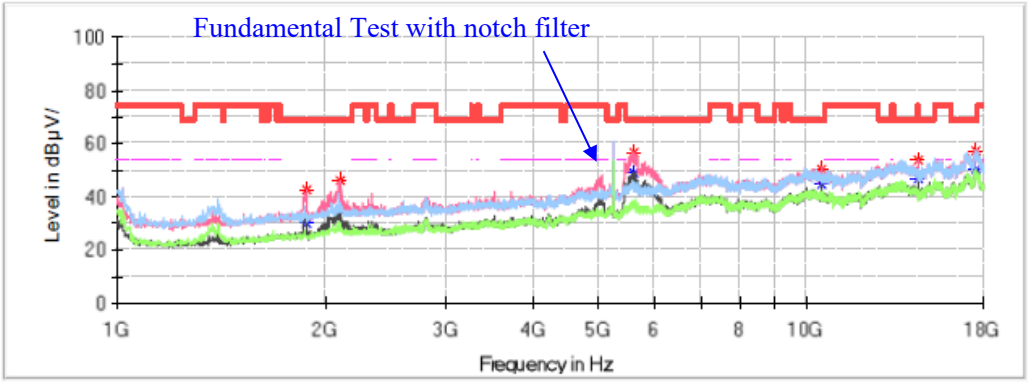
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1394.400000	---	26.66	54.00	27.34	H	-14.3
1394.400000	38.34	---	74.00	35.66	H	-14.3
2098.200000	42.59	---	68.20	25.61	V	-10.4
5576.400000	51.56	---	68.20	16.64	V	0.7
7009.500000	48.42	---	68.20	19.78	H	3.8
10402.700000	51.76	---	68.20	16.44	V	7.4
17578.400000	57.05	---	68.20	11.15	H	13.3

High Channel: 5240MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode High Channel of Chain1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29

Full Spectrum



Critical_Freqs

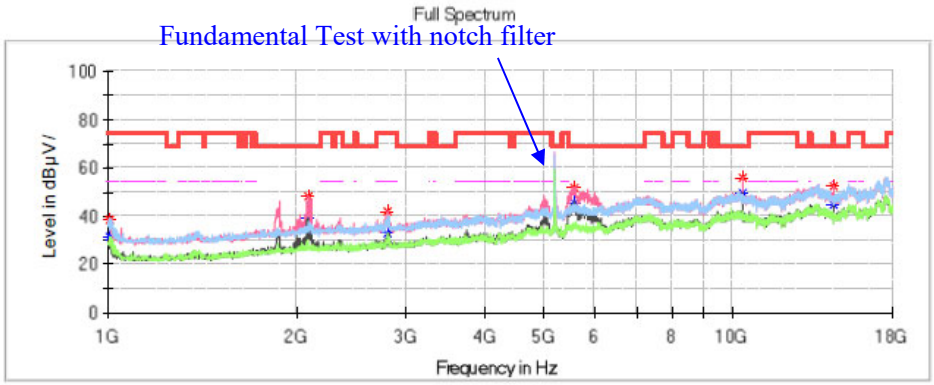
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1878.900000	42.50	---	68.20	25.70	V	-11.4
2108.400000	46.31	---	68.20	21.89	V	-10.4
5612.100000	56.68	---	68.20	11.52	V	0.7
10480.900000	50.59	---	68.20	17.61	V	7.3
14472.500000	---	46.83	54.00	7.17	V	8.3
14472.500000	53.91	---	74.00	20.09	V	8.3
17552.900000	57.57	---	68.20	10.63	H	13.4

802.11ac20 Mode:

Low Channel: 5180MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac20 Mode Low Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



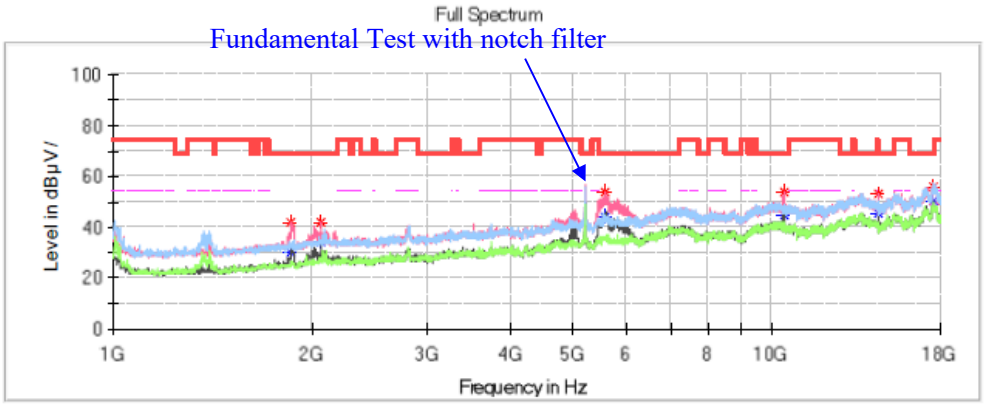
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1008.500000	---	31.51	54.00	22.49	H	-15.5
1008.500000	38.54	---	74.00	35.46	H	-15.5
2088.000000	48.54	---	68.20	19.66	V	-10.4
2807.100000	---	32.78	54.00	21.22	V	-8.7
2807.100000	41.78	---	74.00	32.22	V	-8.7
5573.000000	52.07	---	68.20	16.13	V	0.7
10356.800000	55.72	---	68.20	12.48	V	7.4
14472.500000	---	44.85	54.00	9.15	V	8.3
14472.500000	52.16	---	74.00	21.84	V	8.3

Middle Channel: 5200MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac20 Mode Middle Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



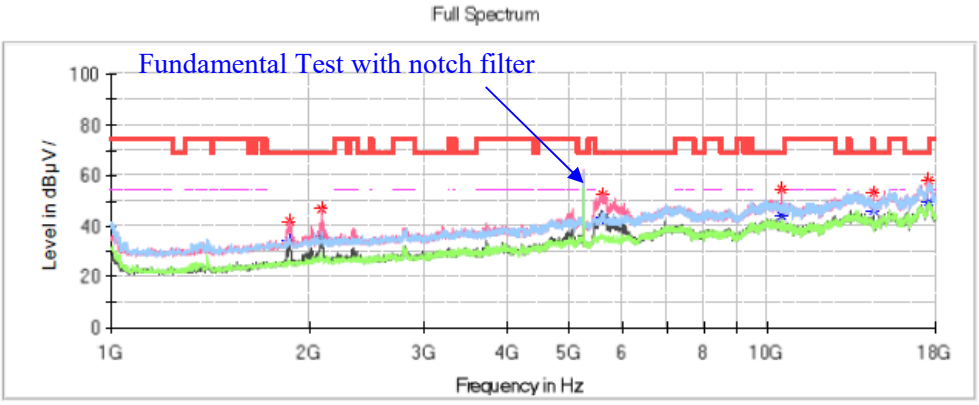
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1863.600000	41.72	---	68.20	26.48	V	-11.5
2062.500000	41.90	---	68.20	26.30	V	-10.5
5562.800000	53.63	---	68.20	14.57	V	0.8
10402.700000	53.68	---	68.20	14.52	V	7.4
14472.500000	---	45.62	54.00	8.38	V	8.3
14472.500000	53.04	---	74.00	20.96	V	8.3
17556.300000	55.60	---	68.20	12.60	V	13.4

High Channel: 5240MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac20 Mode High Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

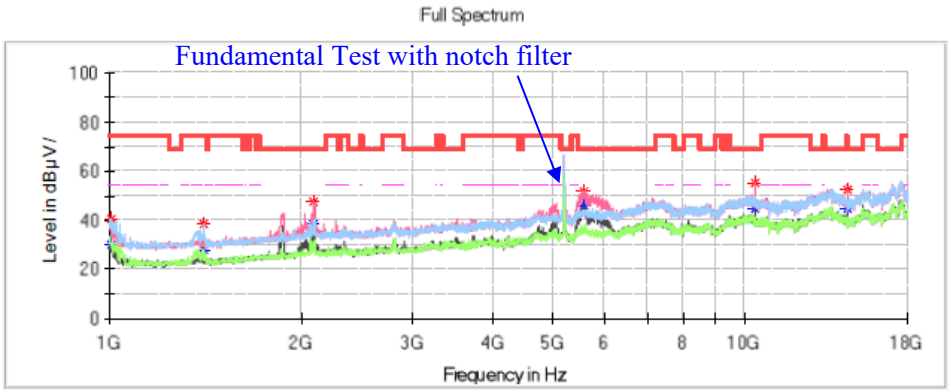
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1865.300000	41.98	---	68.20	26.22	V	-11.5
2096.500000	46.85	---	68.20	21.35	V	-10.4
5593.400000	52.35	---	68.20	15.85	V	0.7
10479.200000	54.87	---	68.20	13.33	V	7.3
14472.500000	53.40	---	74.00	20.60	V	8.3
14472.500000	---	46.11	54.00	7.89	V	8.3
17564.800000	57.75	---	68.20	10.45	V	13.3

802.11ax20 Mode:

Low Channel: 5180MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode Low Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.7℃
Humidity:	51%
Atmospheric pressure:	102.8KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



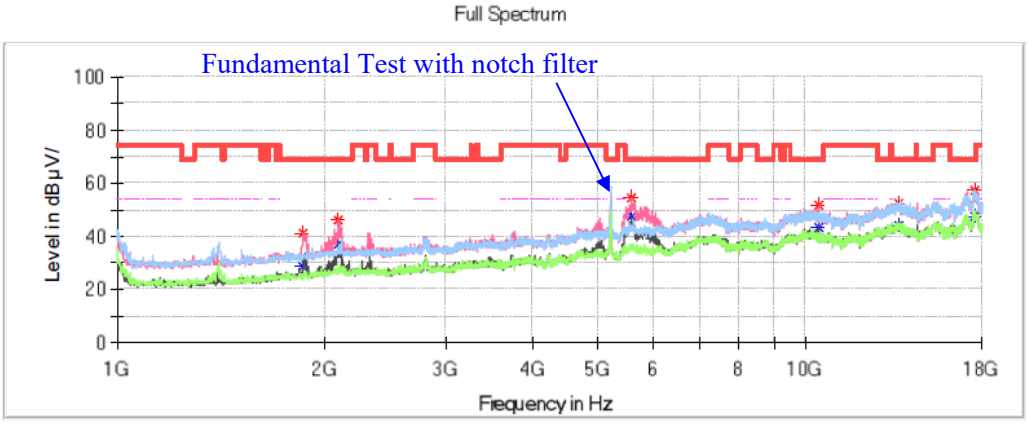
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1003.400000	---	29.96	54.00	24.04	H	-15.5
1003.400000	40.48	---	74.00	33.52	H	-15.5
1406.300000	---	28.14	54.00	25.86	H	-14.2
1406.300000	38.73	---	74.00	35.27	H	-14.2
2096.500000	47.51	---	68.20	20.69	V	-10.4
5576.400000	52.05	---	68.20	16.15	V	0.7
10358.500000	54.95	---	68.20	13.25	V	7.4
14472.500000	---	44.90	54.00	9.10	V	8.3
14472.500000	52.18	---	74.00	21.82	V	8.3

Middle Channel: 5200MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode Middle Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



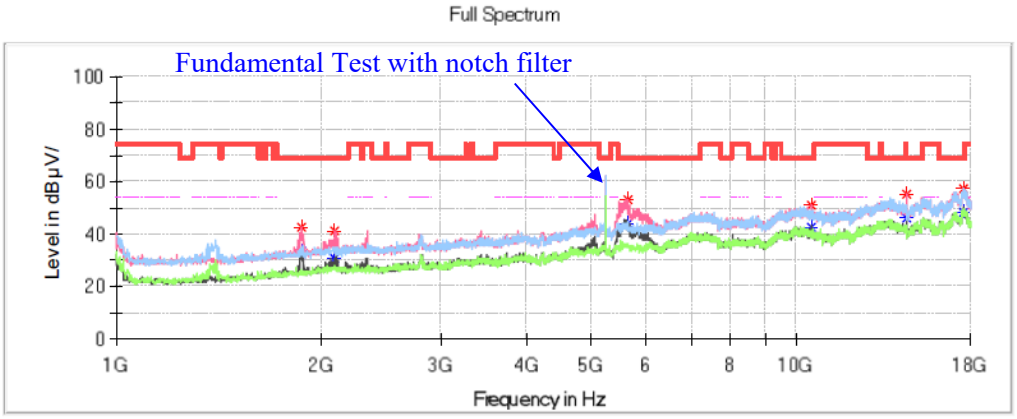
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1860.200000	41.27	---	68.20	26.93	V	-11.5
2093.100000	46.47	---	68.20	21.73	V	-10.4
5567.900000	54.81	---	68.20	13.39	V	0.8
10399.300000	51.53	---	68.20	16.67	V	7.4
13636.100000	52.42	---	68.20	15.78	H	10.9
17546.100000	57.13	---	68.20	11.07	H	13.4

High Channel: 5240MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode High Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

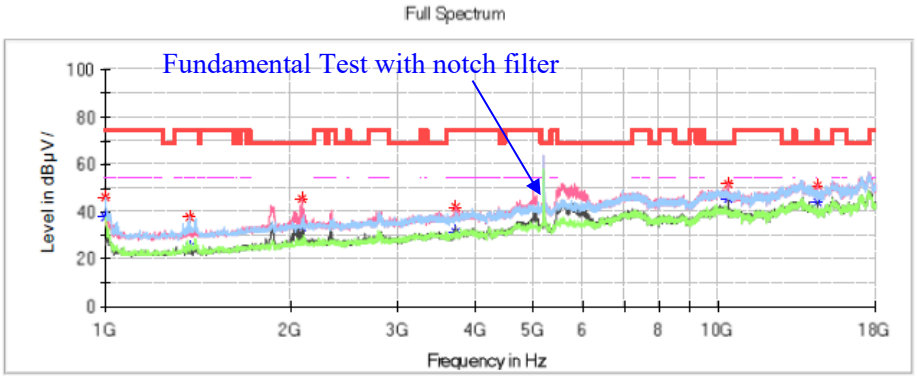
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1868.700000	42.52	---	68.20	25.68	V	-11.5
2098.200000	41.50	---	68.20	26.70	V	-10.4
5627.400000	53.21	---	68.20	14.99	V	0.7
10479.200000	51.10	---	68.20	17.10	V	7.3
14472.500000	---	46.29	54.00	7.71	V	8.3
14472.500000	54.99	---	74.00	19.01	V	8.3
17546.100000	57.28	---	68.20	10.92	V	13.4

802.11n-HT20 Mode:

Low Channel: 5180MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode Low Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



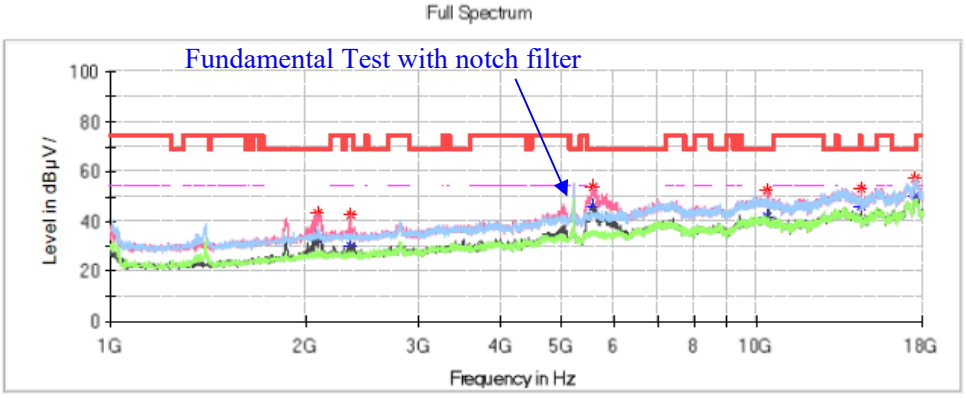
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1000.000000	---	37.76	54.00	16.24	H	-15.5
1000.000000	45.87	---	74.00	28.13	H	-15.5
1374.000000	---	25.50	54.00	28.50	H	-14.3
1374.000000	37.50	---	74.00	36.50	H	-14.3
2089.700000	45.47	---	68.20	22.73	V	-10.4
3730.200000	---	31.66	54.00	22.34	V	-5.6
3730.200000	41.74	---	74.00	32.26	V	-5.6
10351.700000	51.82	---	68.20	16.38	V	7.4
14472.500000	---	44.25	54.00	9.75	V	8.3
14472.500000	51.10	---	74.00	22.90	V	8.3

Middle Channel: 5200MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode Middle Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



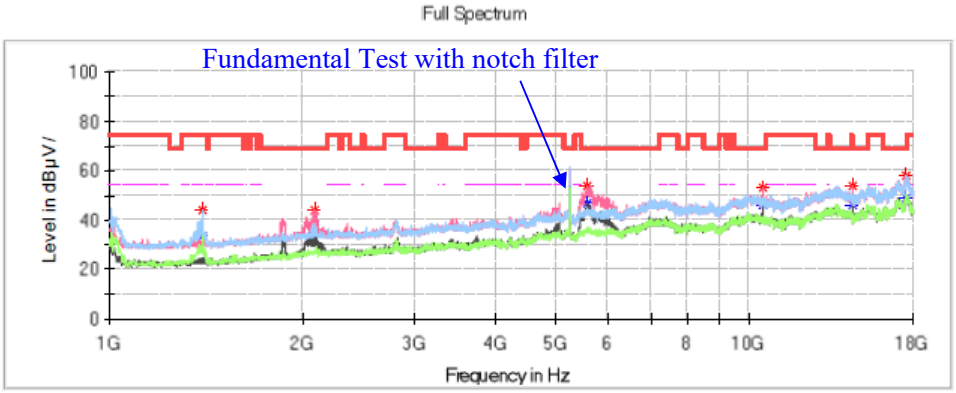
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2091.400000	43.52	---	68.20	24.68	V	-10.4
2348.100000	---	30.01	54.00	23.99	V	-10.0
2348.100000	42.84	---	74.00	31.16	V	-10.0
5567.900000	53.66	---	68.20	14.54	V	0.8
10389.100000	52.61	---	68.20	15.59	V	7.4
14472.500000	---	45.81	54.00	8.19	V	8.3
14472.500000	53.31	---	74.00	20.69	V	8.3
17558.000000	57.64	---	68.20	10.56	V	13.4

High Channel: 5240MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode Low Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

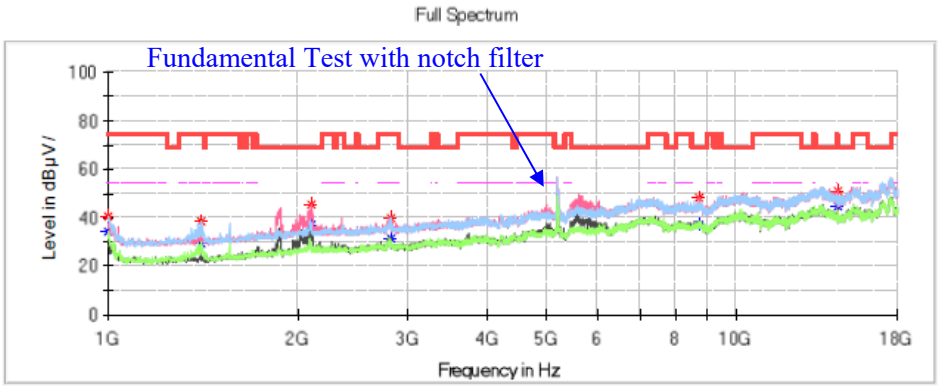
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1396.100000	---	33.80	54.00	20.20	H	-14.3
1396.100000	43.97	---	74.00	30.03	H	-14.3
2086.300000	43.76	---	68.20	24.44	V	-10.4
5567.900000	53.91	---	68.20	14.29	V	0.8
10479.200000	52.88	---	68.20	15.32	V	7.3
14472.500000	---	46.35	54.00	7.65	V	8.3
14472.500000	53.50	---	74.00	20.50	V	8.3
17529.100000	57.75	---	68.20	10.45	H	13.5

802.11ac40 Mode:

Low Channel: 5190MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac40 Mode High Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



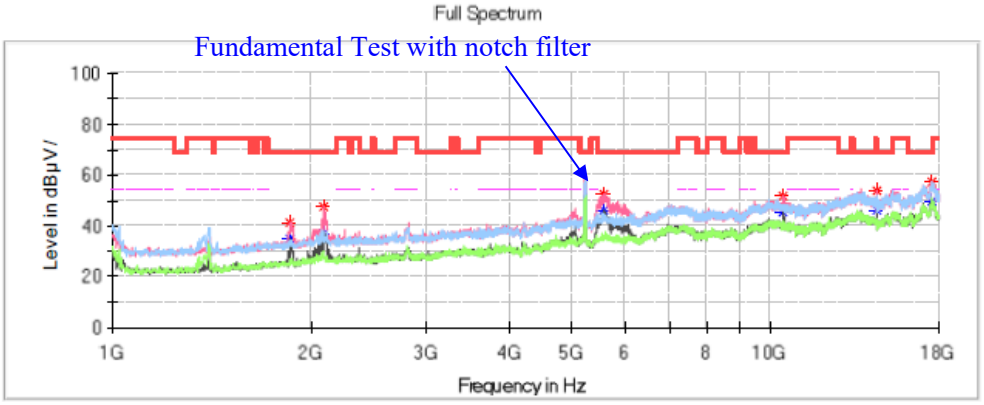
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1001.700000	---	34.45	54.00	19.55	H	-15.5
1001.700000	40.36	---	74.00	33.64	H	-15.5
1409.700000	---	29.71	54.00	24.29	H	-14.2
1409.700000	38.51	---	74.00	35.49	H	-14.2
2103.300000	45.75	---	68.20	22.45	V	-10.4
2810.500000	---	31.80	54.00	22.20	V	-8.7
2810.500000	40.01	---	74.00	33.99	V	-8.7
8711.200000	48.18	---	68.20	20.02	V	3.8
14472.500000	---	44.63	54.00	9.37	V	8.3
14472.500000	51.00	---	74.00	23.00	V	8.3

High Channel: 5230MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac40 Mode Low Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

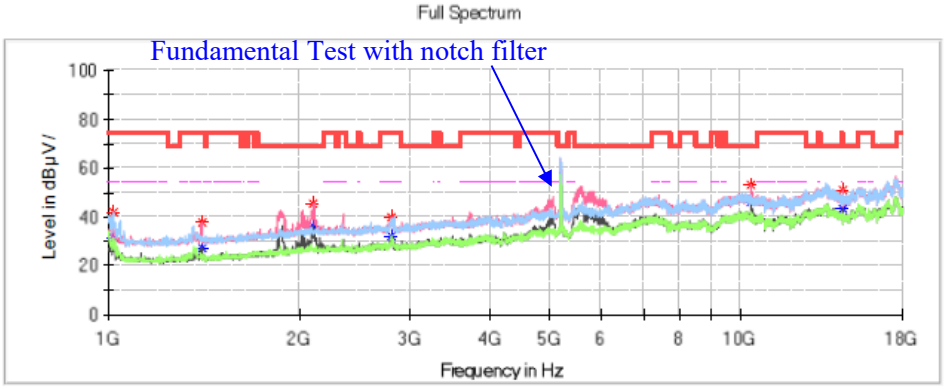
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1858.500000	41.29	---	68.20	26.91	V	-11.5
2096.500000	47.37	---	68.20	20.83	V	-10.4
5567.900000	52.59	---	68.20	15.61	V	0.8
10460.500000	51.66	---	68.20	16.54	V	7.3
14472.500000	---	46.37	54.00	7.63	V	8.3
14472.500000	54.16	---	74.00	19.84	V	8.3
17561.400000	57.08	---	68.20	11.12	V	13.4

802.11ax40 Mode:

Low Channel: 5190MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax40 Mode Low Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



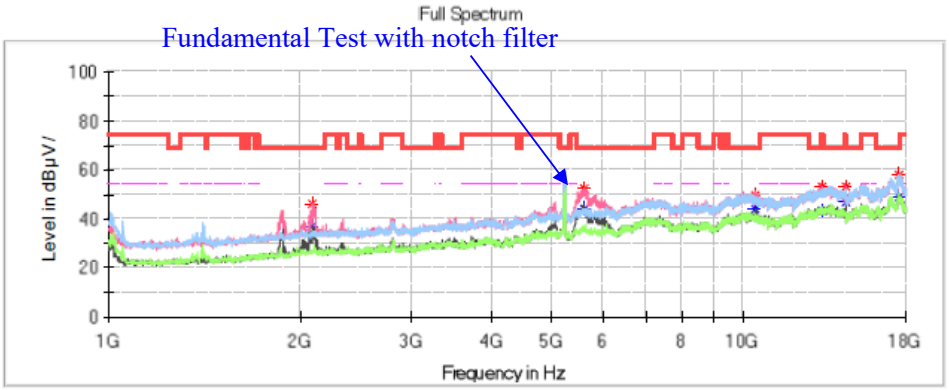
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1017.000000	---	31.74	54.00	22.26	H	-15.5
1017.000000	41.66	---	74.00	32.34	H	-15.5
1402.900000	---	27.07	54.00	26.93	V	-14.2
1402.900000	37.68	---	74.00	36.32	V	-14.2
2106.700000	45.21	---	68.20	22.99	V	-10.4
2802.000000	---	31.96	54.00	22.04	H	-8.7
2802.000000	39.52	---	74.00	34.48	H	-8.7
10367.000000	53.03	---	68.20	15.17	V	7.4
14472.500000	---	43.54	54.00	10.46	V	8.3
14472.500000	50.90	---	74.00	23.10	V	8.3

High Channel: 5230MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax40 Mode High Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

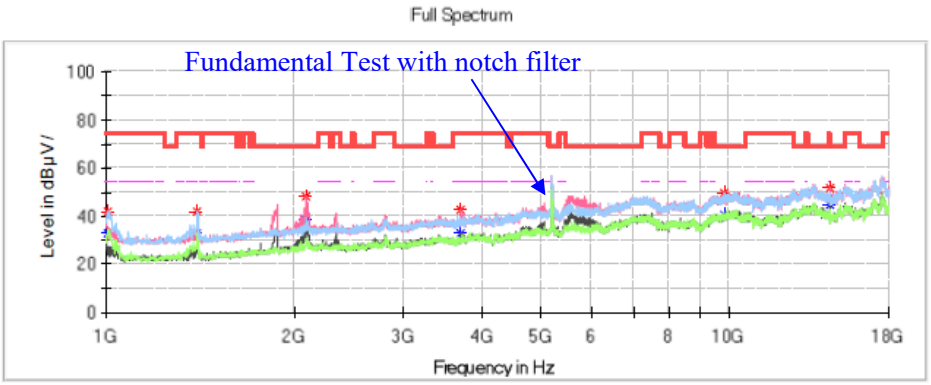
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2098.200000	46.16	---	68.20	22.04	V	-10.4
5607.000000	52.42	---	68.20	15.78	V	0.7
10458.800000	49.64	---	68.20	18.56	V	7.3
13313.100000	---	43.44	54.00	10.56	V	10.3
13313.100000	52.95	---	74.00	21.05	V	10.3
14472.500000	---	47.18	54.00	6.82	V	8.3
14472.500000	53.48	---	74.00	20.52	V	8.3
17551.200000	57.89	---	68.20	10.31	H	13.4

802.11n-HT40 Mode:

Low Channel: 5190MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n40 Mode Low Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



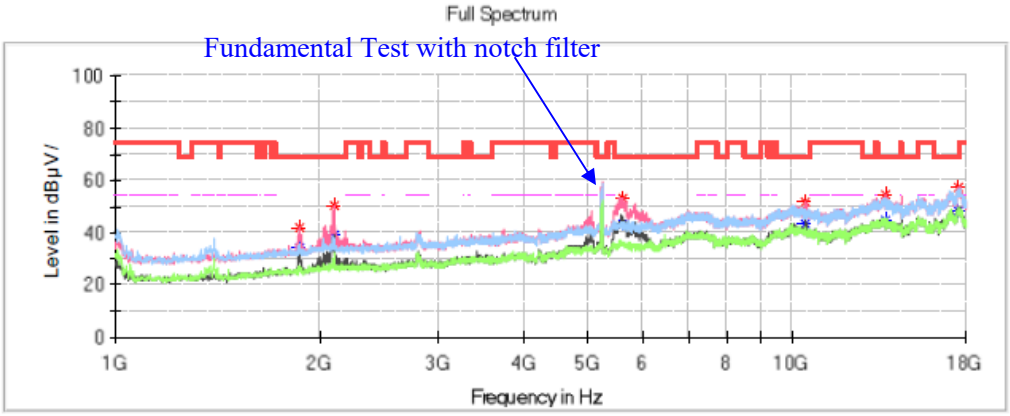
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1003.400000	---	32.86	54.00	21.14	H	-15.5
1003.400000	41.95	---	74.00	32.05	H	-15.5
1399.500000	---	33.12	54.00	20.88	H	-14.2
1399.500000	41.78	---	74.00	32.22	H	-14.2
2094.800000	47.97	---	68.20	20.23	V	-10.4
3708.100000	---	32.90	54.00	21.10	V	-5.7
3708.100000	42.49	---	74.00	31.51	V	-5.7
9783.900000	49.86	---	68.20	18.34	H	7.1
14472.500000	---	45.07	54.00	8.93	V	8.3
14472.500000	51.81	---	74.00	22.19	V	8.3

High Channel: 5230MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n40 Mode High Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

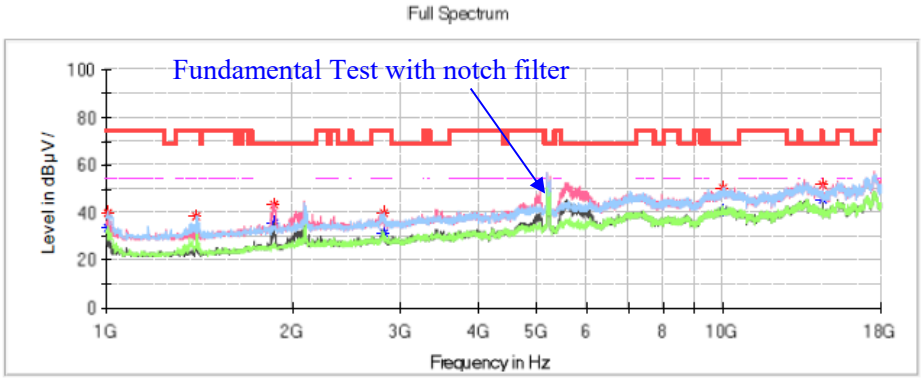
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1867.000000	42.03	---	68.20	26.17	V	-11.5
2099.900000	50.57	---	68.20	17.63	V	-10.4
5596.800000	53.36	---	68.20	14.84	V	0.7
10458.800000	51.84	---	68.20	16.36	V	7.3
13675.200000	54.84	---	68.20	13.36	V	10.8
17564.800000	57.39	---	68.20	10.81	V	13.3

802.11ac80 Mode:

Low Channel: 5210MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac80 Mode Low Channel of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

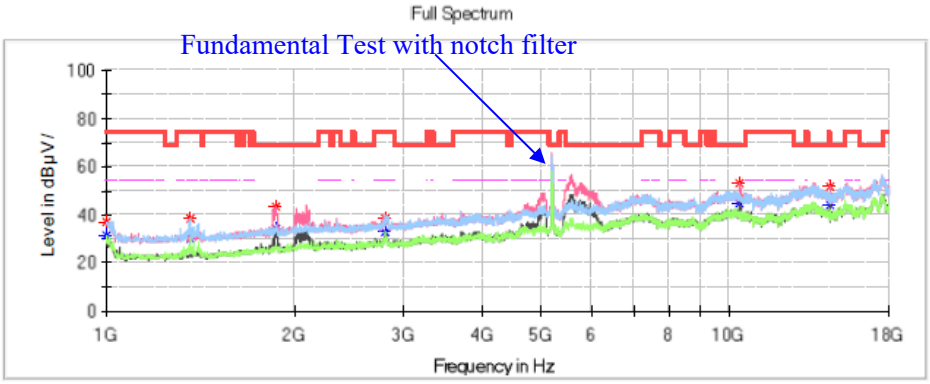
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1003.400000	---	33.51	54.00	20.49	H	-15.5
1003.400000	40.15	---	74.00	33.85	H	-15.5
1401.200000	---	30.80	54.00	23.20	H	-14.2
1401.200000	38.65	---	74.00	35.35	H	-14.2
1867.000000	43.58	---	68.20	24.62	V	-11.5
2820.700000	---	31.65	54.00	22.35	H	-8.6
2820.700000	40.20	---	74.00	33.80	H	-8.6
9979.400000	50.05	---	68.20	18.15	H	7.7
14472.500000	---	45.35	54.00	8.65	V	8.3
14472.500000	52.05	---	74.00	21.95	V	8.3

802.11ax80 Mode:

Low Channel: 5210MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax80 Mode of Chain0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.1℃
Humidity:	55%
Atmospheric pressure:	103.0KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/29



Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1000.000000	---	31.51	54.00	22.49	H	-15.5
1000.000000	37.20	---	74.00	36.80	H	-15.5
1363.800000	---	29.92	54.00	24.08	H	-14.4
1363.800000	38.62	---	74.00	35.38	H	-14.4
1865.300000	43.53	---	68.20	24.67	V	-11.5
2803.700000	---	32.57	54.00	21.43	V	-8.7
2803.700000	38.60	---	74.00	35.40	V	-8.7
10380.600000	53.19	---	68.20	15.01	V	7.4
14472.500000	---	44.24	54.00	9.76	V	8.3
14472.500000	51.75	---	74.00	22.25	V	8.3

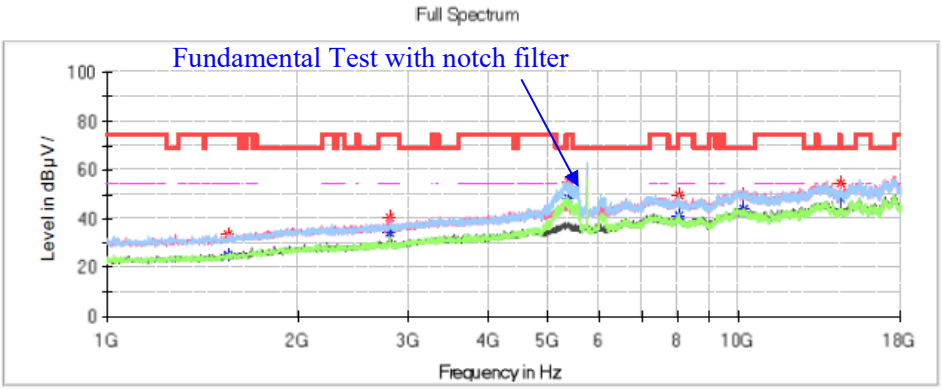
1GHz-18GHz(5725-5850MHz Band):

802.11a Mode:

Low Channel: 5745MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Low Channel of Chain 0
Standard:	FCC Part 15.407
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.3℃
Humidity:	45%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/25



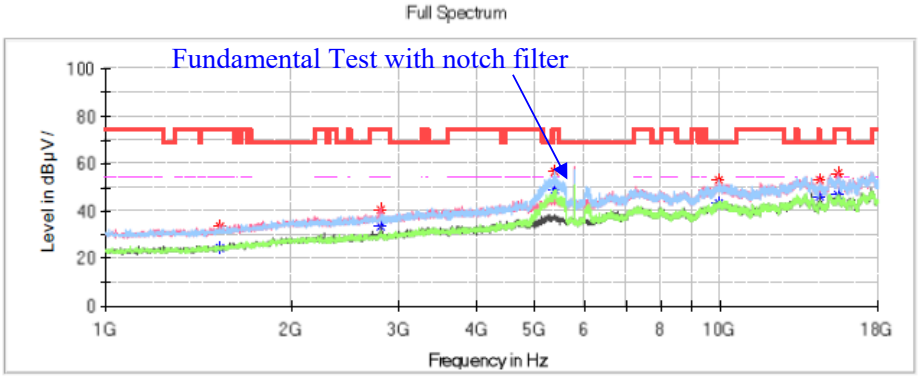
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1550.800000	---	25.39	54.00	28.61	H	-13.6
1550.800000	33.29	---	74.00	40.71	H	-13.6
2803.700000	---	34.01	54.00	19.99	V	-8.7
2803.700000	40.25	---	74.00	33.75	V	-8.7
5375.800000	---	48.56	54.00	5.44	H	0.3
5375.800000	55.27	---	74.00	18.73	H	0.3
8017.600000	49.44	---	68.20	18.76	H	3.8
10200.400000	49.91	---	68.20	18.29	V	7.6
14472.500000	---	48.13	54.00	5.87	V	8.3
14472.500000	54.64	---	74.00	19.36	V	8.3

Middle Channel: 5785MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Middle Channel of Chain 0
Standard:	FCC Part 15.407
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.3℃
Humidity:	45%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/25



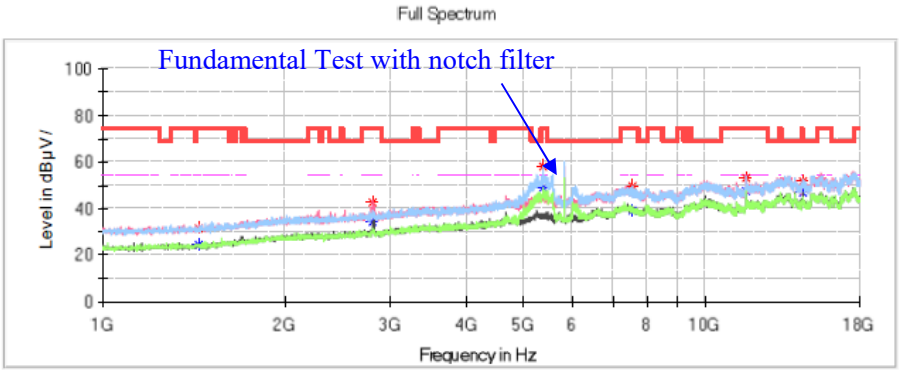
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1538.900000	---	24.69	54.00	29.31	V	-13.7
1538.900000	33.22	---	74.00	40.78	V	-13.7
2803.700000	---	33.88	54.00	20.12	V	-8.7
2803.700000	40.21	---	74.00	33.79	V	-8.7
5375.800000	---	48.81	54.00	5.19	H	0.3
5375.800000	56.46	---	74.00	17.54	H	0.3
9916.500000	53.09	---	68.20	15.11	H	7.5
14472.500000	---	45.97	54.00	8.03	V	8.3
14472.500000	53.19	---	74.00	20.81	V	8.3
15531.600000	---	46.67	54.00	7.33	H	11.6
15531.600000	55.77	---	74.00	18.23	H	11.6

High Channel: 5825MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode High Channel of Chain 0
Standard:	FCC Part 15.407
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.3℃
Humidity:	45%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/25



Critical_Freqs

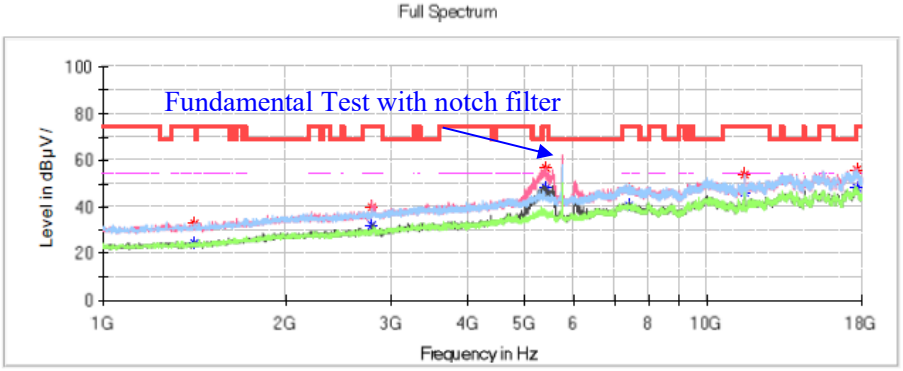
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1445.400000	---	24.63	54.00	29.37	V	-14.1
1445.400000	31.44	---	74.00	42.56	V	-14.1
2800.300000	---	34.07	54.00	19.93	V	-8.7
2800.300000	42.99	---	74.00	31.01	V	-8.7
5375.800000	58.09	---	74.00	15.91	H	0.3
5375.800000	---	48.67	54.00	5.33	H	0.3
7563.700000	---	39.34	54.00	14.66	H	4.1
7563.700000	49.38	---	74.00	24.62	H	4.1
11652.200000	52.87	---	74.00	21.13	H	7.2
11652.200000	---	47.48	54.00	6.52	H	7.2
14472.500000	52.08	---	74.00	21.92	V	8.3
14472.500000	---	46.75	54.00	7.25	V	8.3

802.11a Mode:

Low Channel: 5745MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Low Channel of Chain 1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



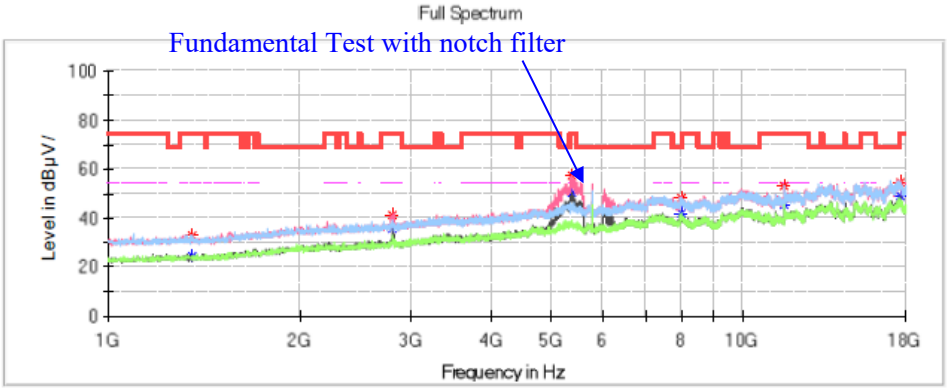
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1418.200000	---	24.53	54.00	29.47	V	-14.2
1418.200000	32.88	---	74.00	41.12	V	-14.2
2786.700000	---	32.10	54.00	21.90	V	-8.8
2786.700000	40.09	---	74.00	33.91	V	-8.8
5387.700000	---	47.99	54.00	6.01	V	0.4
5387.700000	56.38	---	74.00	17.62	V	0.4
7417.500000	---	40.64	54.00	13.36	H	4.1
7417.500000	47.81	---	74.00	26.19	H	4.1
11492.400000	---	45.96	54.00	8.04	V	7.3
11492.400000	54.00	---	74.00	20.00	H	7.3
17626.000000	55.74	---	68.20	12.46	H	13.1

Middle Channel: 5785MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Middle Channel of Chain 1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



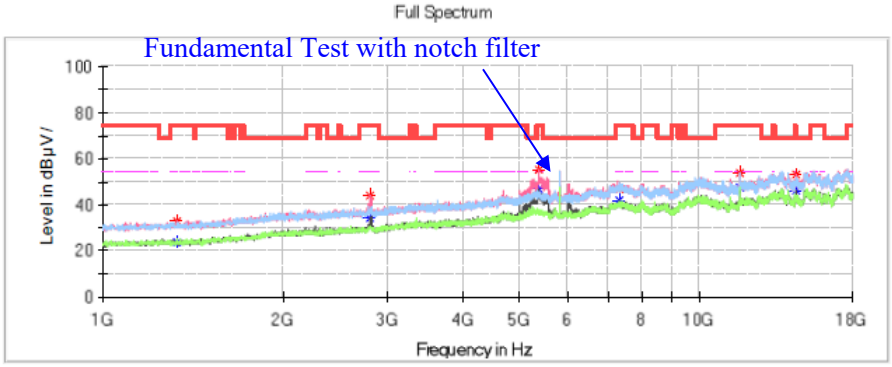
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1358.700000	---	24.66	54.00	29.34	V	-14.4
1358.700000	33.18	---	74.00	40.82	H	-14.4
2805.400000	---	35.61	54.00	18.39	V	-8.7
2805.400000	41.14	---	74.00	32.86	V	-8.7
5375.800000	---	50.41	54.00	3.59	V	0.3
5375.800000	57.16	---	74.00	16.84	V	0.3
7964.900000	48.33	---	68.20	19.87	H	3.8
11572.300000	---	45.60	54.00	8.40	H	7.2
11572.300000	52.89	---	74.00	21.11	H	7.2
17646.400000	54.65	---	68.20	13.55	H	13.0

High Channel: 5825MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode High Channel of Chain 1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



Critical_Freqs

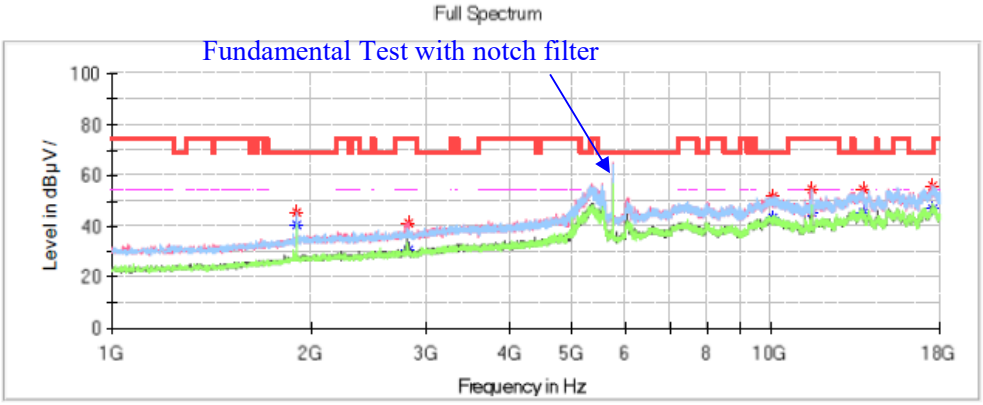
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1328.100000	---	23.88	54.00	30.12	V	-14.5
1328.100000	32.62	---	74.00	41.38	V	-14.5
2805.400000	---	34.48	54.00	19.52	V	-8.7
2805.400000	43.96	---	74.00	30.04	V	-8.7
5375.800000	55.29	---	74.00	18.71	V	0.3
5375.800000	---	46.94	54.00	7.06	V	0.3
7330.800000	---	41.65	54.00	12.35	V	4.1
7330.800000	46.85	---	74.00	27.15	V	4.1
11652.200000	---	47.70	54.00	6.30	H	7.2
11652.200000	53.99	---	74.00	20.01	H	7.2
14472.500000	53.49	---	74.00	20.51	V	8.3
14472.500000	---	46.18	54.00	7.82	V	8.3

802.11ac20 Mode:

Low Channel: 5745MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



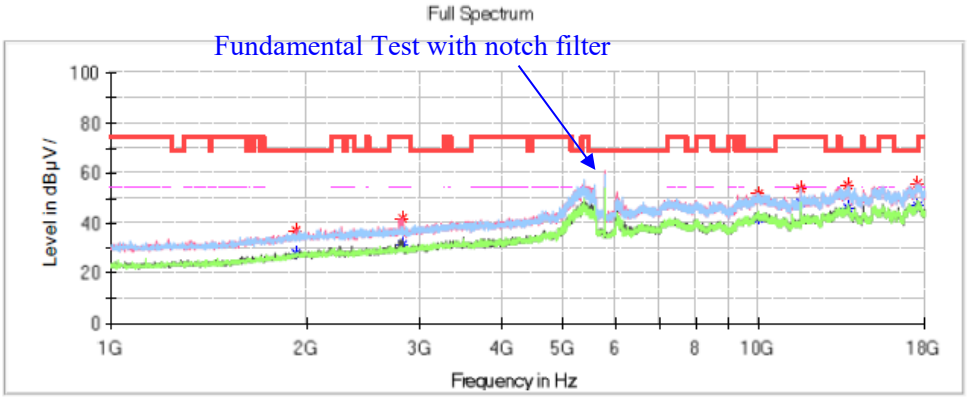
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1902.700000	45.53	---	68.20	22.67	H	-11.2
2815.600000	---	31.06	54.00	22.94	V	-8.7
2815.600000	41.10	---	74.00	32.90	V	-8.7
10018.500000	51.43	---	68.20	16.77	V	7.8
11483.900000	---	45.23	54.00	8.77	H	7.3
11483.900000	54.28	---	74.00	19.72	H	7.3
13746.600000	54.62	---	68.20	13.58	V	10.8
17590.300000	55.91	---	68.20	12.29	H	13.2

Middle Channel: 5785MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac20 Mode Middle Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



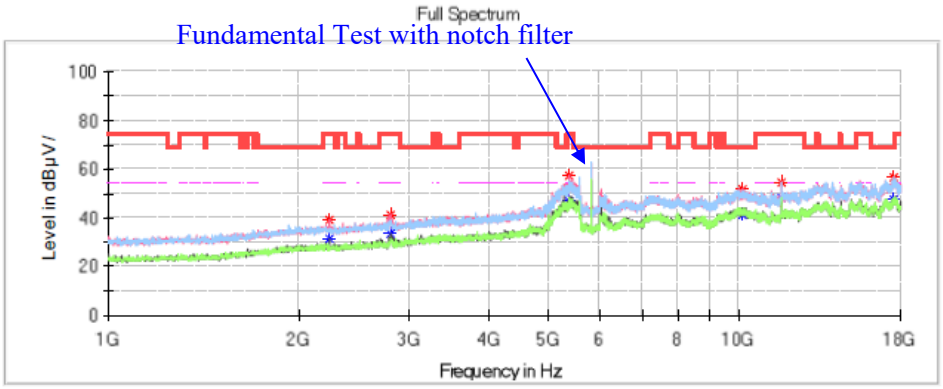
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1931.600000	36.81	---	68.20	31.39	V	-11.0
2825.800000	---	31.25	54.00	22.75	V	-8.6
2825.800000	42.01	---	74.00	31.99	V	-8.6
10001.500000	51.81	---	68.20	16.39	H	7.8
11567.200000	---	48.08	54.00	5.92	H	7.3
11567.200000	53.70	---	74.00	20.30	H	7.3
13726.200000	55.51	---	68.20	12.69	V	10.8
17598.800000	55.79	---	68.20	12.41	V	13.2

High Channel: 5825MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac20 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



Critical_Freqs

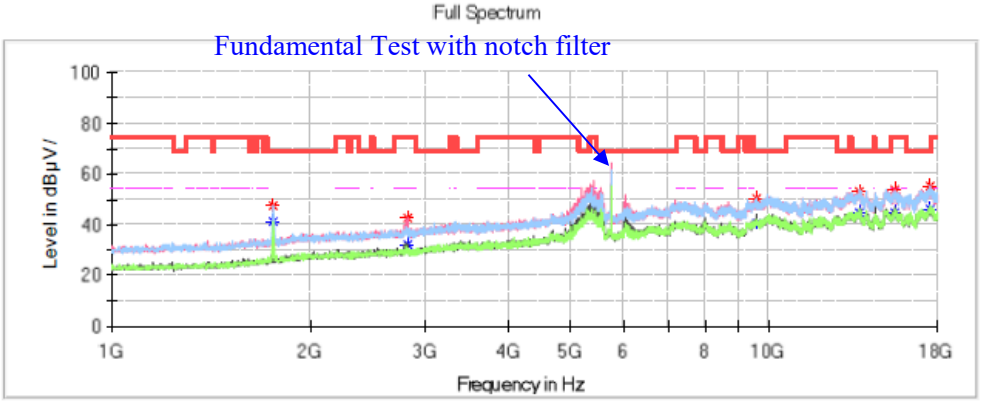
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2239.300000	---	31.35	54.00	22.65	V	-10.2
2239.300000	39.00	---	74.00	35.00	V	-10.2
2803.700000	---	33.25	54.00	20.75	V	-8.7
2803.700000	41.13	---	74.00	32.87	V	-8.7
5374.100000	57.65	---	74.00	16.35	V	0.3
5374.100000	---	47.12	54.00	6.88	V	0.3
10098.400000	51.40	---	68.20	16.80	V	7.7
11648.800000	---	47.99	54.00	6.01	H	7.2
11648.800000	54.69	---	74.00	19.31	H	7.2
17597.100000	56.65	---	68.20	11.55	H	13.2

802.11ax20 Mode:

Low Channel: 5745MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



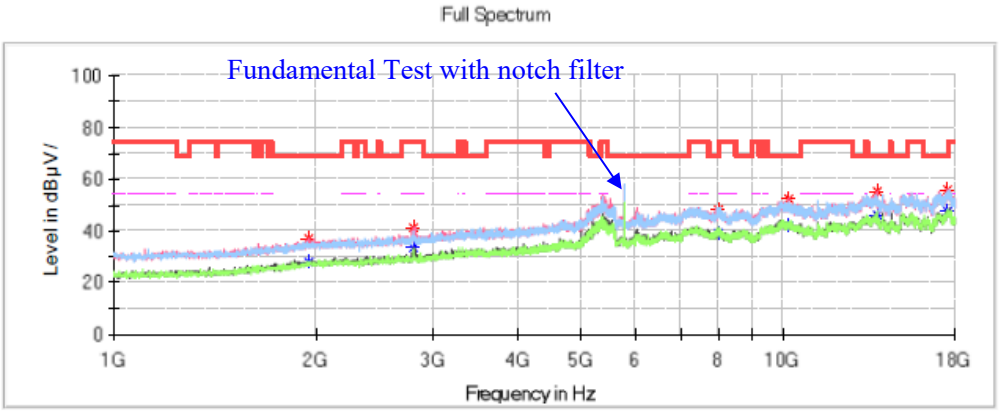
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1763.300000	47.38	---	68.20	20.82	H	-12.2
2813.900000	---	32.22	54.00	21.78	V	-8.7
2813.900000	42.63	---	74.00	31.37	V	-8.7
9551.000000	50.02	---	68.20	18.18	H	6.4
13731.300000	53.42	---	68.20	14.78	H	10.8
15528.200000	---	44.68	54.00	9.32	V	11.6
15528.200000	54.19	---	74.00	19.81	V	11.6
17592.000000	55.23	---	68.20	12.97	H	13.2

Middle Channel: 5785MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode Middle Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



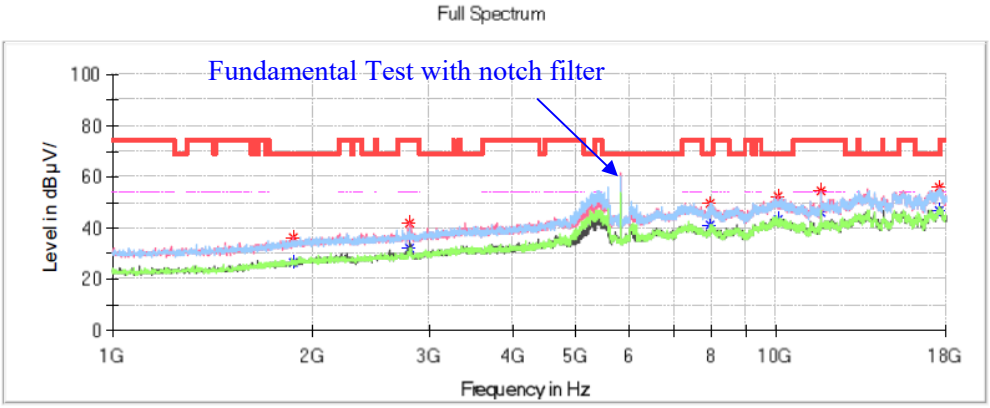
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1958.800000	37.32	---	68.20	30.88	V	-10.8
2803.700000	---	33.50	54.00	20.50	V	-8.7
2803.700000	41.34	---	74.00	32.66	V	-8.7
7990.400000	48.55	---	68.20	19.65	H	3.8
10147.700000	52.21	---	68.20	15.99	V	7.7
13746.600000	54.96	---	68.20	13.24	V	10.8
17588.600000	56.08	---	68.20	12.12	V	13.2

High Channel: 5825MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



Critical_Freqs

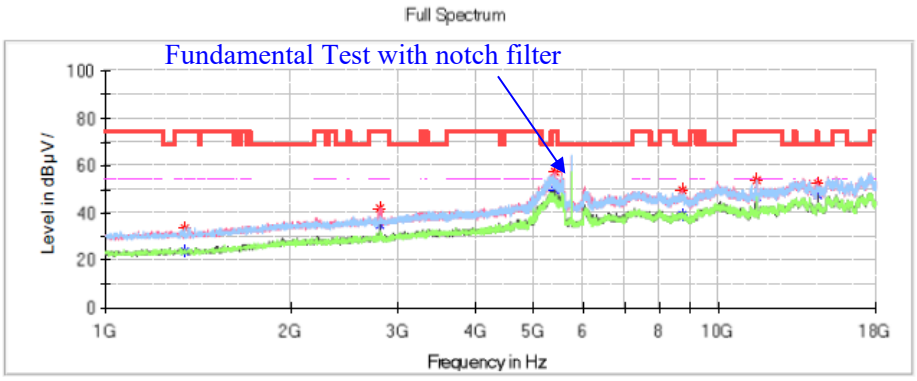
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1872.100000	36.50	---	68.20	31.70	V	-11.4
2796.900000	---	32.35	54.00	21.65	V	-8.7
2796.900000	41.73	---	74.00	32.27	V	-8.7
7958.100000	49.65	---	68.20	18.55	H	3.9
10038.900000	52.41	---	68.20	15.79	V	7.8
11638.600000	---	46.38	54.00	7.62	V	7.2
11638.600000	54.22	---	74.00	19.78	V	7.2
17588.600000	55.85	---	68.20	12.35	V	13.2

802.11n-HT20 Mode:

Low Channel: 5745MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



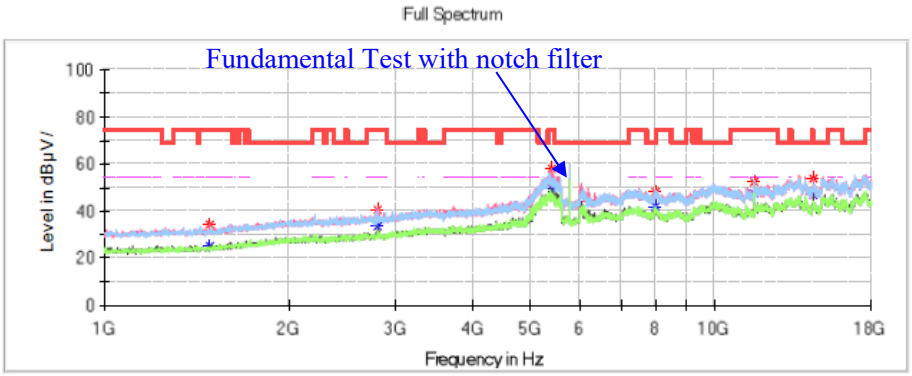
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1346.800000	---	23.72	54.00	30.28	H	-14.4
1346.800000	33.68	---	74.00	40.32	H	-14.4
2802.000000	41.96	---	74.00	32.04	V	-8.7
2802.000000	---	34.66	54.00	19.34	V	-8.7
5387.700000	57.54	---	74.00	16.46	V	0.4
5387.700000	---	49.74	54.00	4.26	V	0.4
8736.700000	49.61	---	68.20	18.59	V	3.8
11494.100000	---	46.73	54.00	7.27	H	7.3
11494.100000	53.93	---	74.00	20.07	H	7.3
14472.500000	---	47.43	54.00	6.57	V	8.3
14472.500000	52.13	---	74.00	21.87	V	8.3

Middle Channel: 5785MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode Middle Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



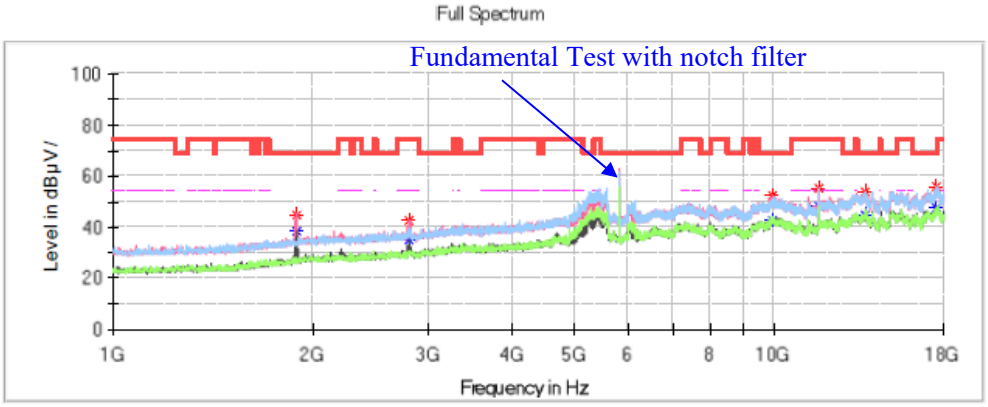
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1489.600000	---	25.33	54.00	28.67	V	-14.0
1489.600000	34.22	---	74.00	39.78	V	-14.0
2798.600000	---	33.69	54.00	20.31	V	-8.7
2798.600000	40.82	---	74.00	33.18	V	-8.7
5391.100000	---	49.64	54.00	4.36	V	0.4
5391.100000	57.83	---	74.00	16.17	V	0.4
7995.500000	48.07	---	68.20	20.13	H	3.8
11575.700000	---	47.41	54.00	6.59	H	7.2
11575.700000	52.69	---	74.00	21.31	H	7.2
14472.500000	54.07	---	74.00	19.93	V	8.3
14472.500000	---	46.92	54.00	7.08	V	8.3

High Channel: 5825MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



Critical_Freqs

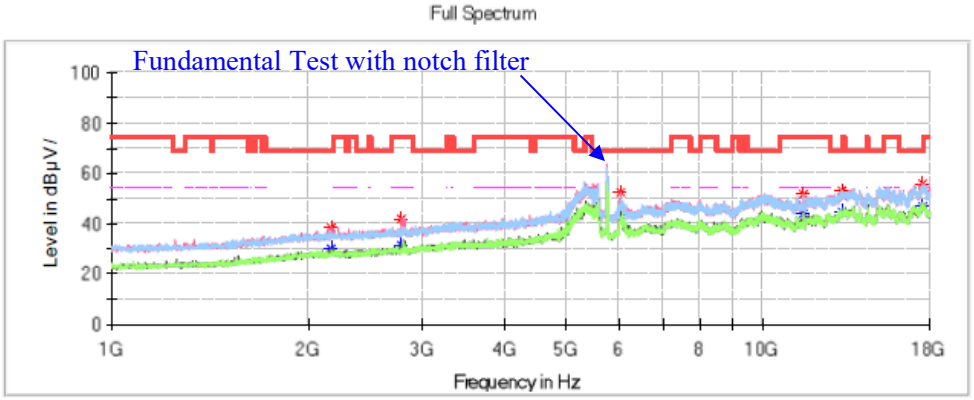
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1890.800000	44.89	---	68.20	23.31	V	-11.3
2800.300000	---	34.70	54.00	19.30	V	-8.7
2800.300000	42.72	---	74.00	31.28	V	-8.7
9908.000000	52.39	---	68.20	15.81	V	7.5
11657.300000	---	48.09	54.00	5.91	H	7.2
11657.300000	55.17	---	74.00	18.83	V	7.2
13692.200000	53.52	---	68.20	14.68	H	10.8
17609.000000	55.98	---	68.20	12.22	H	13.2

802.11ac40 Mode:

Low Channel: 5755MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac40 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



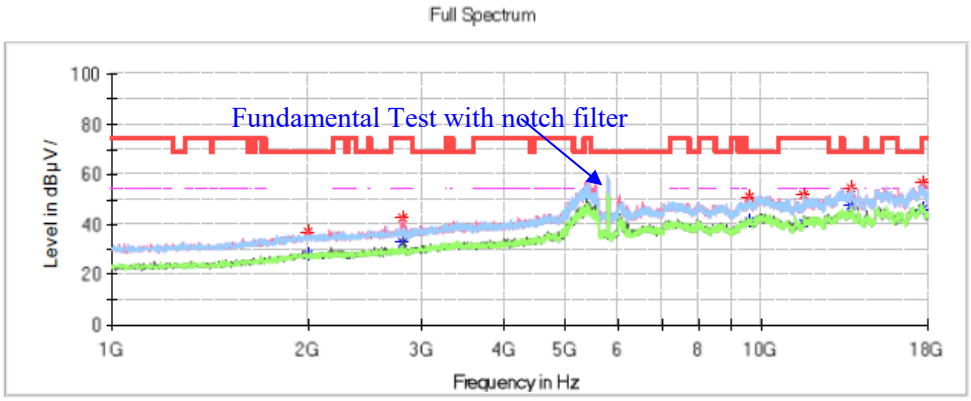
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2174.700000	38.72	---	68.20	29.48	V	-10.3
2785.000000	---	31.15	54.00	22.85	V	-8.8
2785.000000	41.91	---	74.00	32.09	V	-8.8
6026.900000	52.11	---	68.20	16.09	V	0.2
11494.100000	---	43.96	54.00	10.04	V	7.3
11494.100000	51.88	---	74.00	22.12	V	7.3
13229.800000	53.05	---	68.20	15.15	H	9.9
17539.300000	56.10	---	68.20	12.10	V	13.5

High Channel: 5795MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac40 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



Critical_Freqs

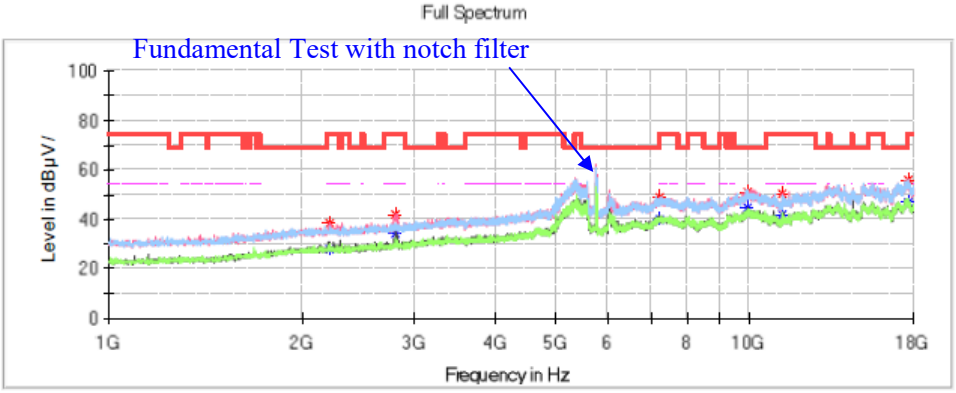
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2003.000000	37.34	---	68.20	30.86	V	-10.6
2795.200000	---	32.84	54.00	21.16	V	-8.7
2795.200000	42.99	---	74.00	31.01	V	-8.7
9551.000000	51.35	---	68.20	16.85	V	6.4
11565.500000	---	40.44	54.00	13.56	H	7.3
11565.500000	51.97	---	74.00	22.03	H	7.3
13685.400000	54.34	---	68.20	13.86	H	10.8
17643.000000	56.34	---	68.20	11.86	V	13.0

802.11ax40 Mode:

Low Channel: 5755MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax40 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



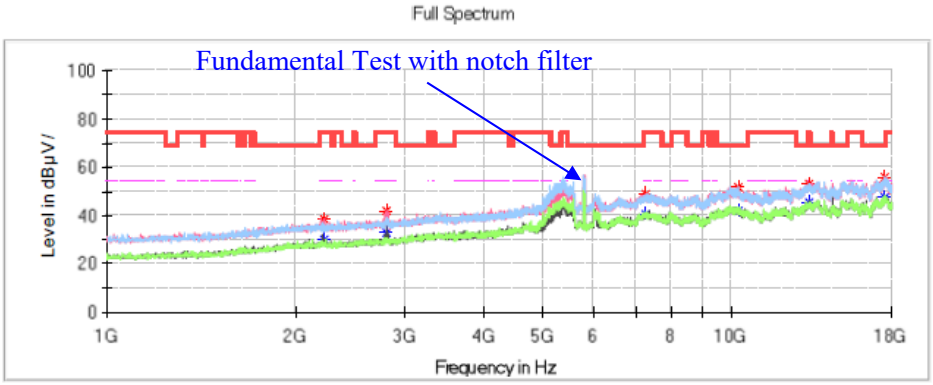
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2207.000000	---	27.83	54.00	26.17	V	-10.2
2207.000000	38.23	---	74.00	35.77	V	-10.2
2805.400000	---	34.06	54.00	19.94	V	-8.7
2805.400000	42.05	---	74.00	31.95	V	-8.7
7220.300000	48.64	---	68.20	19.56	V	4.0
9913.100000	51.31	---	68.20	16.89	V	7.5
11205.100000	---	41.89	54.00	12.11	V	6.7
11205.100000	50.68	---	74.00	23.32	V	6.7
17643.000000	55.94	---	68.20	12.26	H	13.0

High Channel: 5795MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax40 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



Critical_Freqs

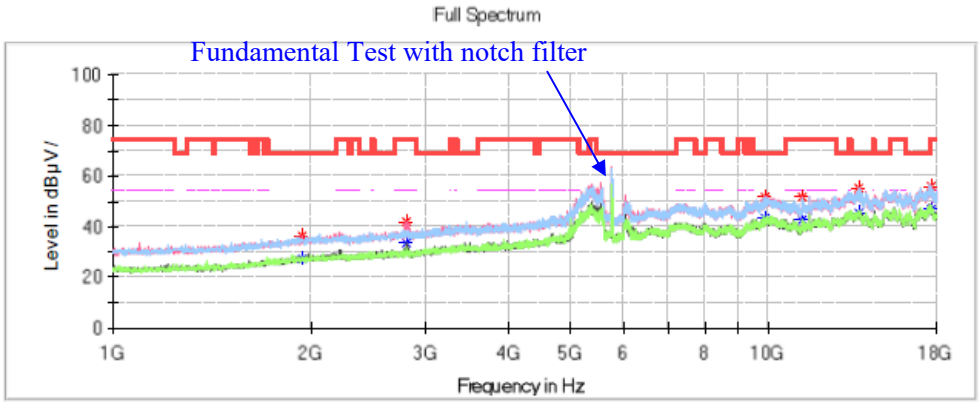
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2227.400000	---	30.13	54.00	23.87	V	-10.2
2227.400000	38.79	---	74.00	35.21	V	-10.2
2796.900000	---	32.77	54.00	21.23	V	-8.7
2796.900000	42.29	---	74.00	31.71	V	-8.7
7296.800000	---	40.42	54.00	13.58	V	4.0
7296.800000	48.83	---	74.00	25.17	V	4.0
10210.600000	52.06	---	68.20	16.14	H	7.6
13285.900000	---	45.14	54.00	8.86	V	10.2
13285.900000	52.96	---	74.00	21.04	V	10.2
17609.000000	55.95	---	68.20	12.25	H	13.2

802.11n-HT40 Mode:

Low Channel: 5755MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n40 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



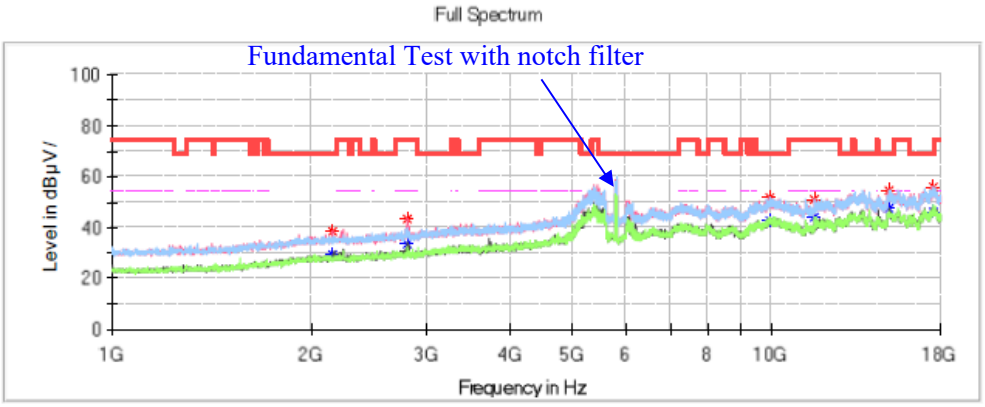
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1940.100000	36.63	---	68.20	31.57	V	-11.0
2807.100000	41.76	---	74.00	32.24	V	-8.7
2807.100000	---	33.62	54.00	20.38	V	-8.7
9889.300000	51.73	---	68.20	16.47	H	7.5
11205.100000	---	42.41	54.00	11.59	V	6.7
11205.100000	51.40	---	74.00	22.60	V	6.7
13729.600000	55.23	---	68.20	12.97	H	10.8
17624.300000	56.14	---	68.20	12.06	H	13.1

High Channel: 5795MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n40 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



Critical_Freqs

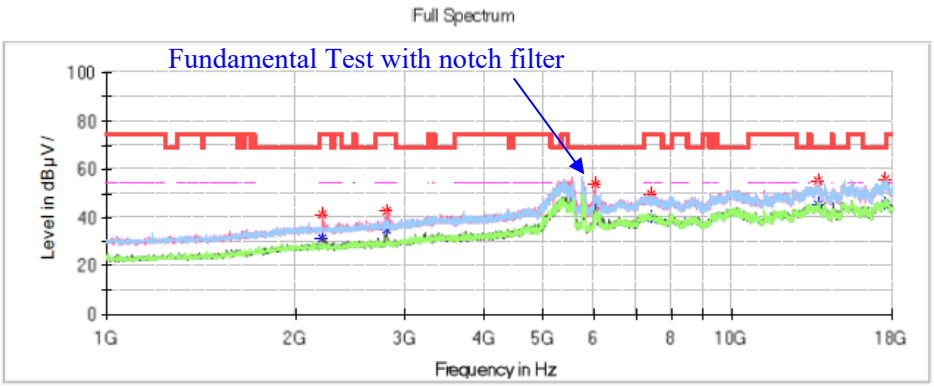
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2162.800000	38.80	---	68.20	29.40	V	-10.3
2805.400000	---	33.70	54.00	20.30	V	-8.7
2805.400000	43.17	---	74.00	30.83	V	-8.7
9935.200000	51.82	---	68.20	16.38	H	7.6
11584.200000	---	44.00	54.00	10.00	H	7.2
11584.200000	51.30	---	74.00	22.70	H	7.2
15081.100000	54.75	---	68.20	13.45	V	10.4
17547.800000	56.07	---	68.20	12.13	H	13.4

802.11ac80 Mode:

Low Channel: 5775MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac80 Mode of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



Critical_Freqs

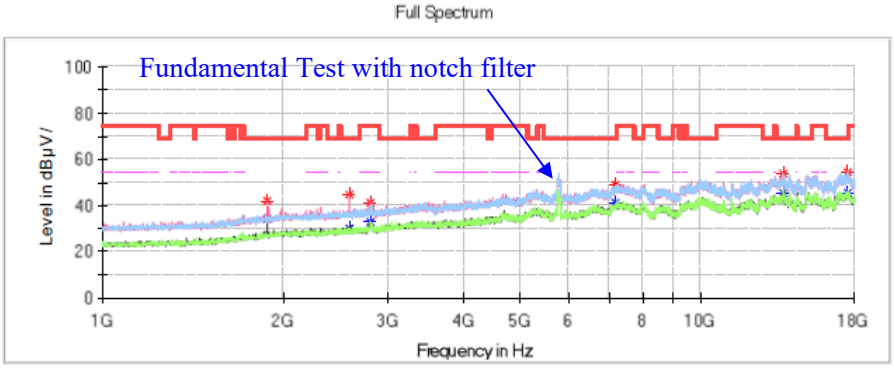
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
2212.100000	---	31.25	54.00	22.75	V	-10.2
2212.100000	41.32	---	74.00	32.68	V	-10.2
2798.600000	---	35.07	54.00	18.93	V	-8.7
2798.600000	42.55	---	74.00	31.45	V	-8.7
6035.400000	53.63	---	68.20	14.57	V	0.2
7419.200000	---	40.14	54.00	13.86	V	4.1
7419.200000	49.96	---	74.00	24.04	V	4.1
13690.500000	55.47	---	68.20	12.73	H	10.8
17508.700000	55.66	---	68.20	12.54	V	13.6

802.11ax80 Mode:

Low Channel: 5775MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac80 Mode of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.8℃
Humidity:	43%
Atmospheric pressure:	103.2KPa
Test Engineer:	James Ji
Test Date:	2024/1/25



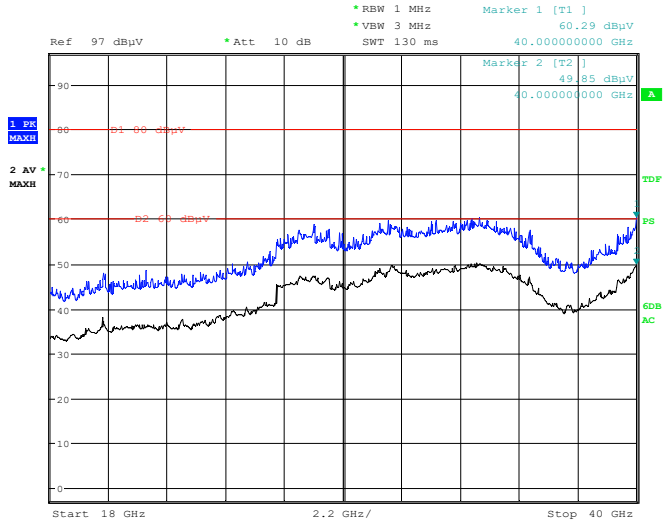
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
1884.000000	---	34.05	---	---	V	-11.3
1884.000000	41.85	---	68.20	26.35	V	-11.3
2579.300000	---	30.03	---	---	V	-9.5
2579.300000	44.55	---	68.20	23.65	V	-9.5
2796.900000	---	32.67	54.00	21.33	V	-8.7
2796.900000	40.99	---	74.00	33.01	V	-8.7
7205.000000	---	41.27	---	---	V	4.0
7205.000000	48.66	---	68.20	19.54	V	4.0
13683.700000	---	45.36	---	---	V	10.8
13683.700000	53.52	---	68.20	14.68	H	10.8
17566.500000	---	45.33	---	---	H	13.3
17566.500000	54.28	---	68.20	13.92	H	13.3

18GHz-40GHz(5150-5250MHz Band):

Pre-scan with 802.11a, 802.11ac20, 802.11ax20, 802.11n-HT20, 802.11ac40, 802.11ax40, 802.11n-HT40, 802.11 ac80 and802.11 ax80 modes of operation in the X,Y and Z axes of orientation, the worst case ***802.11n-HT40 mode high channel*** *in X-axis of orientation was recorded*

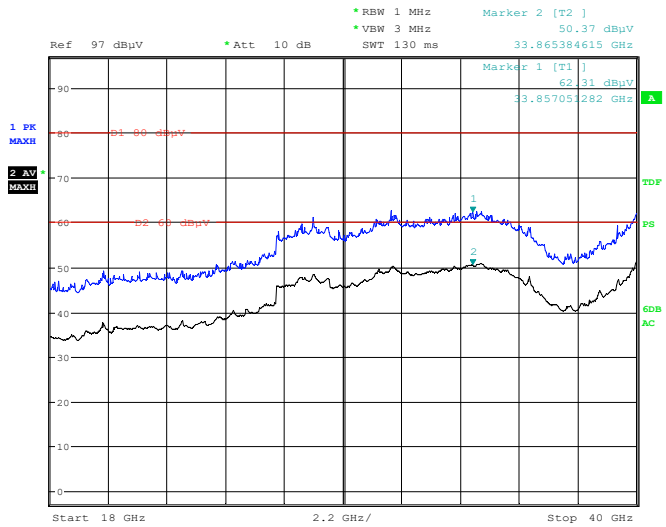
Horizontal



Project No.: RKSA231222003 Tester: Peter Wang

Date: 4.FEB.2024 22:01:58

Vertical



Project No.: RKSA231222003 Tester: Peter Wang

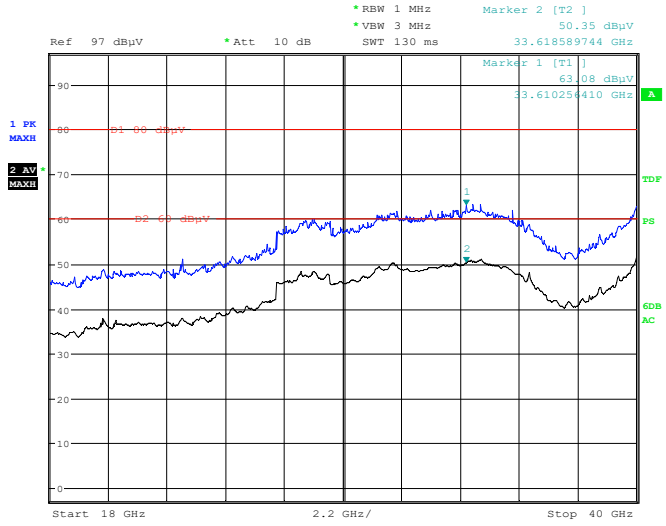
Date: 4.FEB.2024 22:59:43

Note: The item was tested at 1.5m.

18GHz-40GHz(5725-5850MHz Band):

Pre-scan with 802.11a, 802.11ac20, 802.11ax20, 802.11n-HT20, 802.11ac40, 802.11ax40, 802.11n-HT40, 802.11 ac80 and802.11 ax80 modes of operation in the X,Y and Z axes of orientation, the worst case ***802.11n-HT40 mode low channel*** *in X-axis of orientation was recorded*

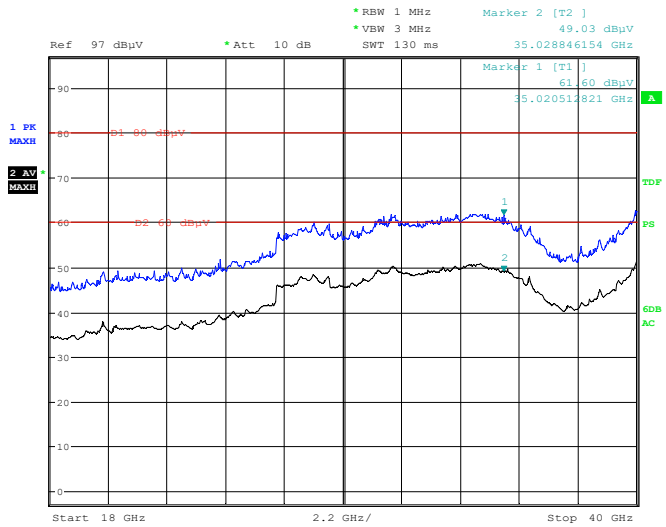
Horizontal



Project No.: RKSA231222003 Tester: Peter Wang

Date: 4.FEB.2024 23:28:39

Vertical



Project No.: RKSA231222003 Tester: Peter Wang

Date: 4.FEB.2024 23:50:02

Note: The item was tested at 1.5m.

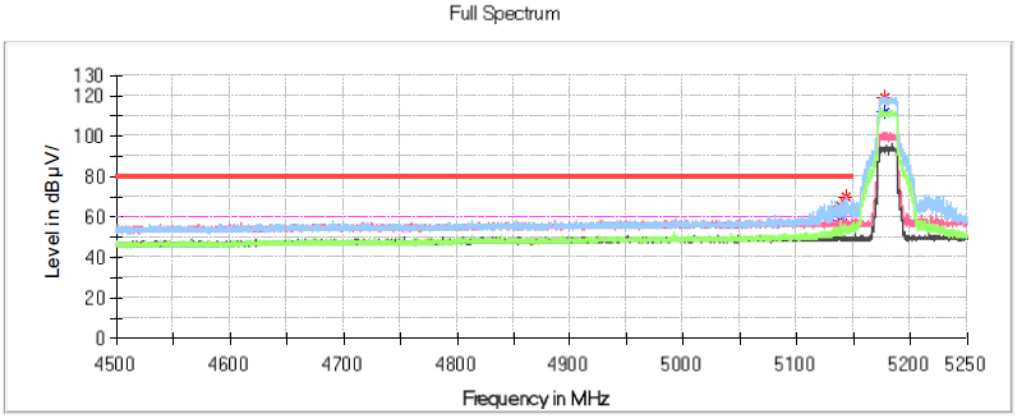
Restricted Bands Emissions Test (5150-5250MHz Band):

Note:
1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude
4. The item was tested at 1.5m.

802.11a Mode:

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Low Channel of Chain 0
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.3℃
Humidity:	53%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26

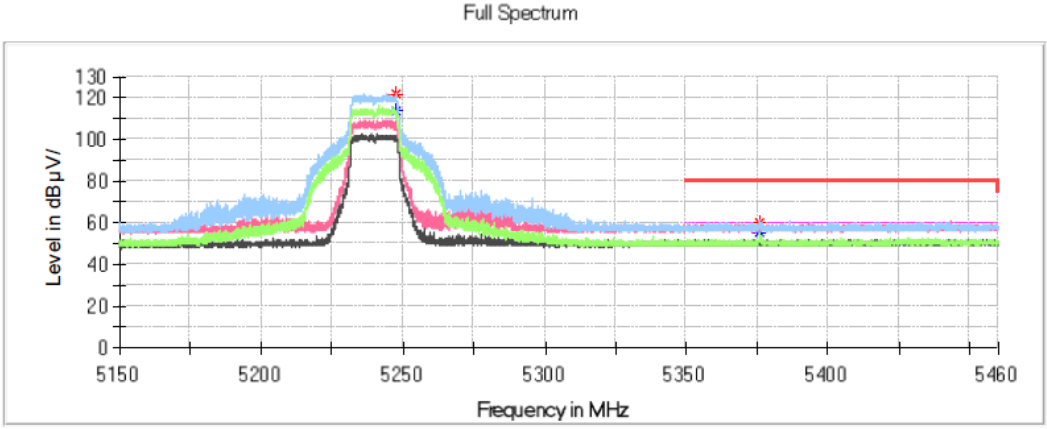


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5138.250000	65.21	---	80.00	14.79	H	9.4
5138.250000	---	58.30	60.00	1.70	H	9.4
5143.275000	69.85	---	80.00	10.15	H	9.4
5143.275000	---	55.56	60.00	4.44	H	9.4
5176.500000	---	111.51	---	---	H	9.5
5176.500000	118.72	---	---	---	H	9.5

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode High Channel of Chain 0
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.3℃
Humidity:	53%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26

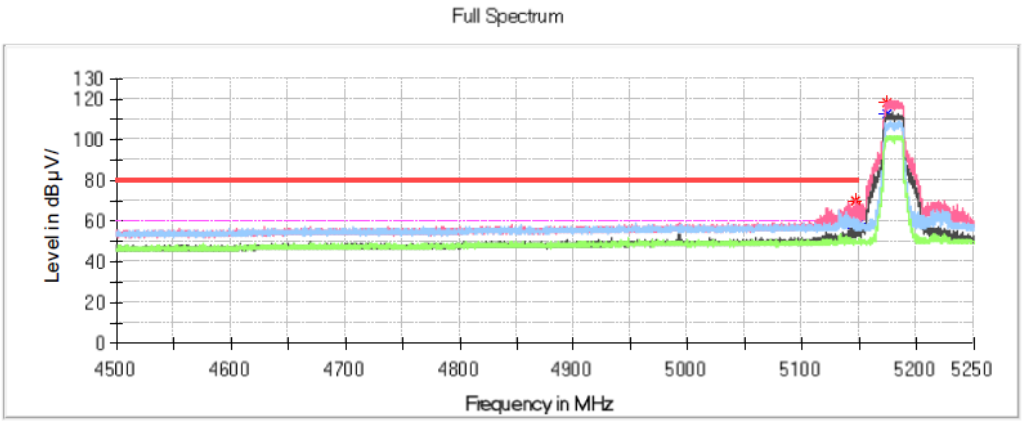


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5247.340000	---	113.52	---	---	H	9.8
5247.340000	121.67	---	---	---	H	9.8
5375.990000	---	55.37	60.00	4.63	H	10.3
5375.990000	59.63	---	80.00	20.37	H	10.3

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode Low Channel of Chain 1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.4℃
Humidity:	49%
Atmospheric pressure:	103.1KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26

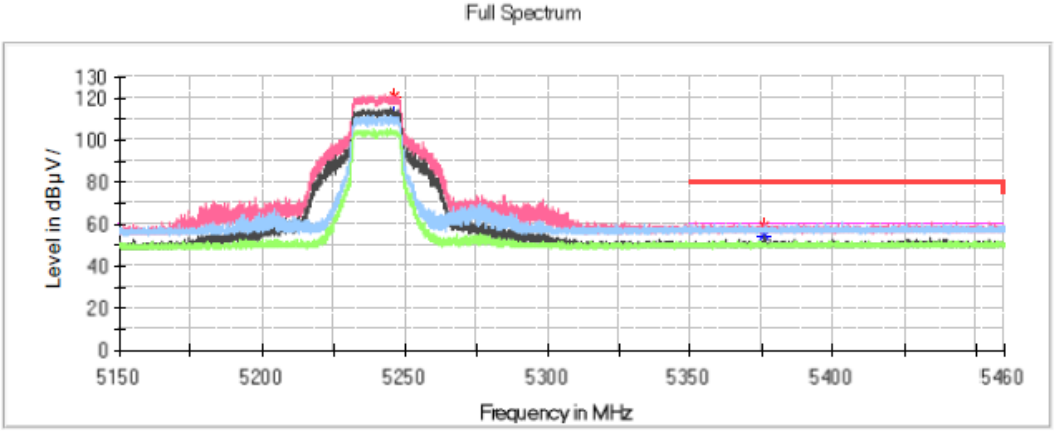


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5145.900000	---	55.93	60.00	4.07	V	9.4
5145.900000	70.02	---	80.00	9.98	V	9.4
5149.200000	---	58.66	60.00	1.34	V	9.4
5149.200000	65.75	---	80.00	14.25	V	9.4
5174.775000	---	112.92	---	---	V	9.5
5174.775000	118.12	---	---	---	V	9.5

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11a Mode High Channel of Chain 1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.4℃
Humidity:	49%
Atmospheric pressure:	103.1KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26



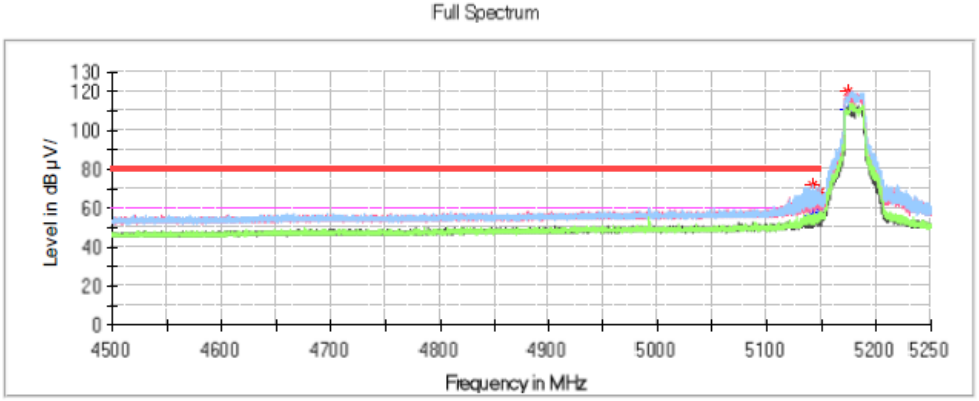
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5246.379000	---	112.25	---	---	V	9.8
5246.379000	121.17	---	---	---	V	9.8
5375.804000	58.79	---	80.00	21.21	V	10.3
5375.804000	---	54.98	60.00	5.02	V	10.3

802.11ac20 Mode:

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.3℃
Humidity:	53%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26

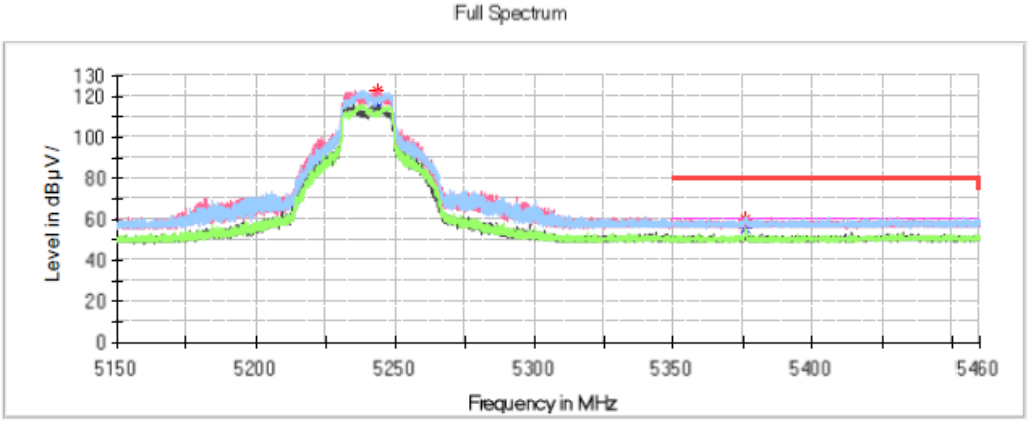


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5141.250000	---	56.66	60.00	3.34	H	9.4
5141.250000	71.78	---	80.00	8.22	H	9.4
5148.975000	---	58.22	60.00	1.78	H	9.4
5148.975000	68.17	---	80.00	11.83	H	9.4
5173.800000	---	110.66	---	---	V	9.5
5173.800000	119.83	---	---	---	V	9.5

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac20 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.3℃
Humidity:	53%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26



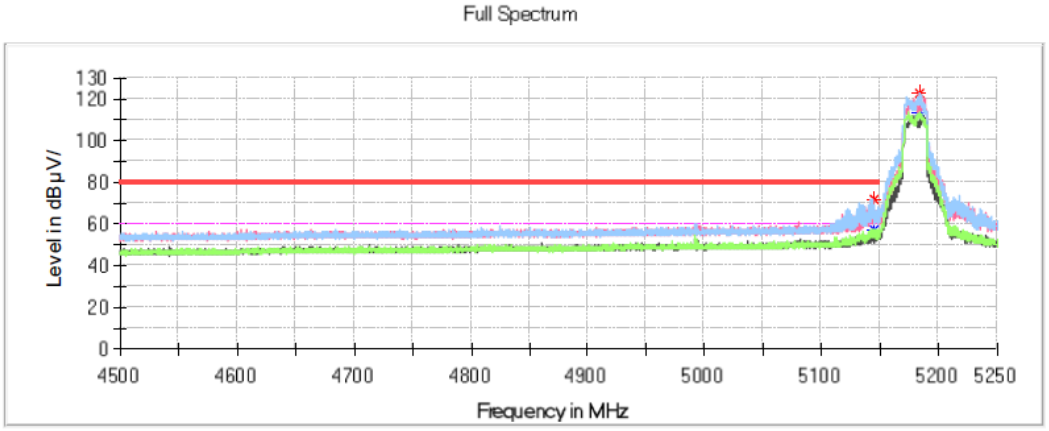
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5243.248000	---	114.60	---	---	V	9.8
5243.248000	122.90	---	---	---	V	9.8
5375.928000	60.44	---	80.00	19.56	H	10.3
5375.928000	---	55.45	60.00	4.55	H	10.3

802.11ax20 Mode:

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.3℃
Humidity:	53%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26

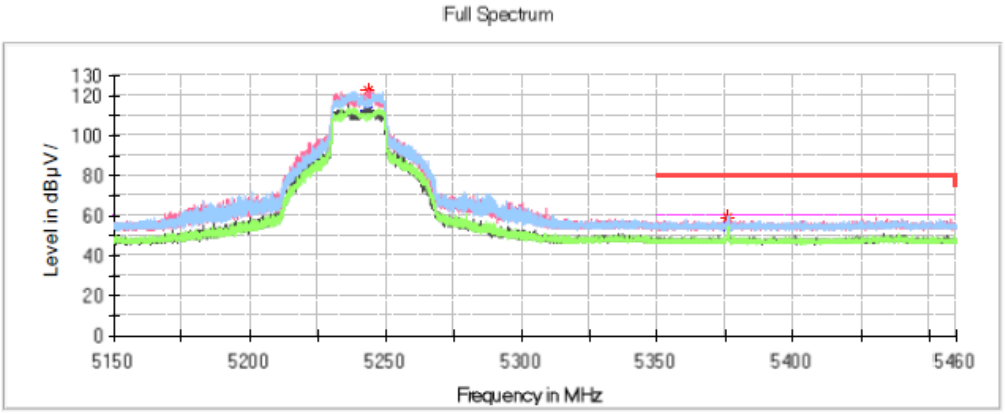


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5144.175000	---	57.71	60.00	2.29	H	9.4
5144.175000	72.26	---	80.00	7.74	H	9.4
5183.850000	---	113.48	---	---	H	9.5
5183.850000	122.52	---	---	---	H	9.5

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.3℃
Humidity:	53%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26



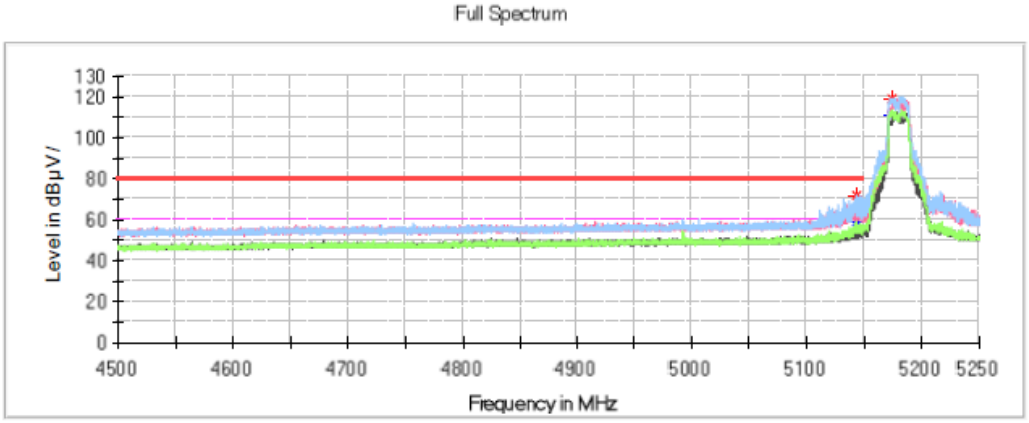
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5243.310000	---	113.06	---	---	V	9.8
5243.310000	123.05	---	---	---	V	9.8
5376.145000	---	54.93	60.00	5.07	H	10.3
5376.145000	59.28	---	80.00	20.72	H	10.3

802.11n-HT20 Mode:

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.4℃
Humidity:	49%
Atmospheric pressure:	103.1KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26

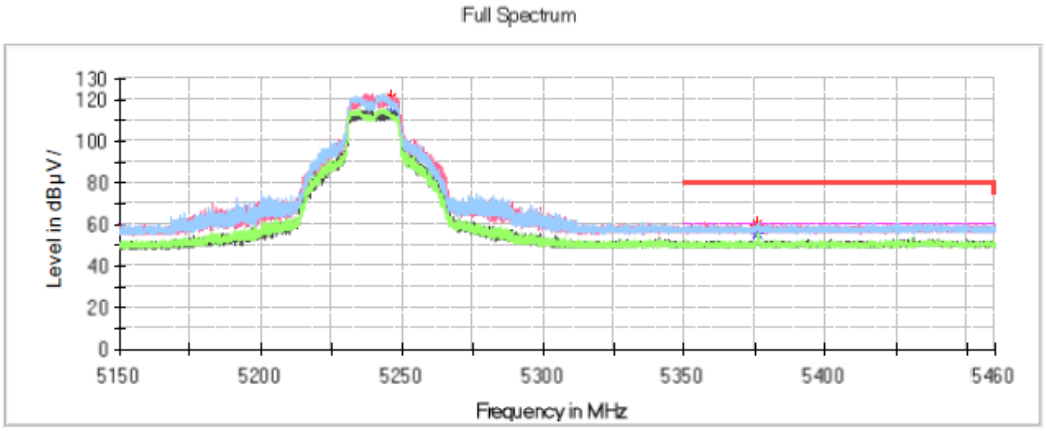


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5143.800000	---	58.93	60.00	1.07	H	9.4
5143.800000	71.63	---	80.00	8.37	H	9.4
5173.500000	---	111.26	---	---	H	9.5
5173.500000	118.89	---	---	---	H	9.5

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.4℃
Humidity:	49%
Atmospheric pressure:	103.1KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26



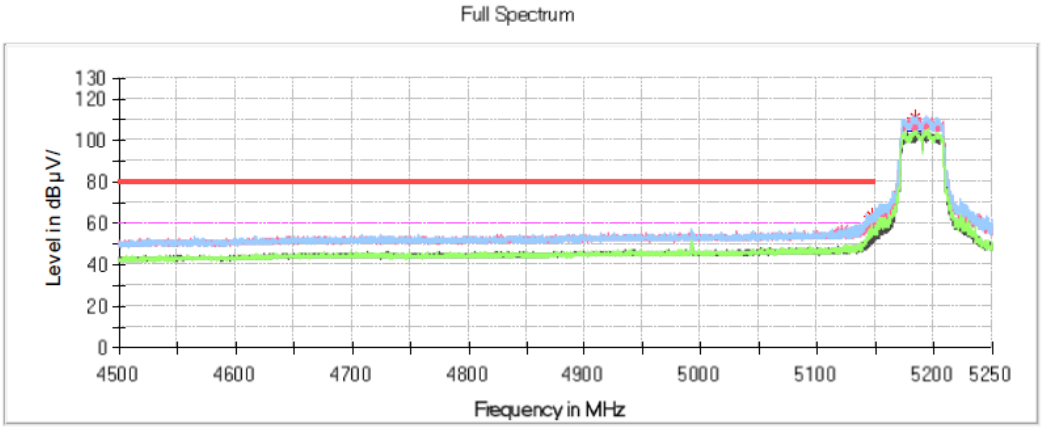
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5246.503000	---	113.65	---	---	V	9.8
5246.503000	120.56	---	---	---	V	9.8
5375.990000	---	55.28	60.00	4.72	H	10.3
5375.990000	60.06	---	80.00	19.94	H	10.3

802.11ac40 Mode:

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac40 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.3℃
Humidity:	53%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26

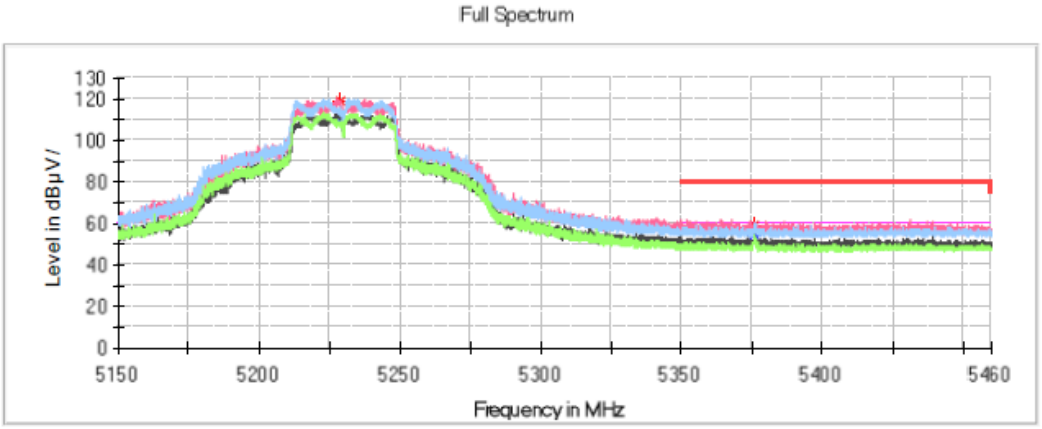


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5146.875000	63.35	---	80.00	16.65	H	9.4
5146.875000	---	59.29	60.00	1.03	H	9.4
5183.325000	---	104.64	---	---	H	9.5
5183.325000	111.24	---	---	---	H	9.5

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ac40 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	22.3℃
Humidity:	53%
Atmospheric pressure:	103.4KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26



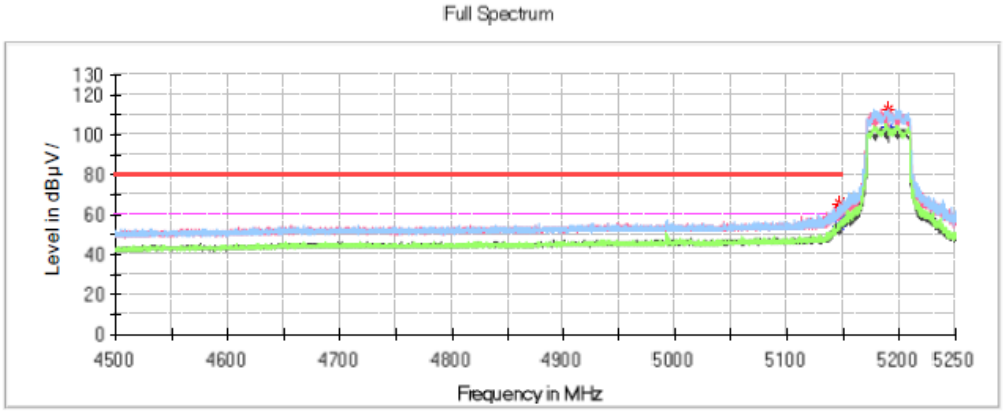
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5228.802000	118.94	---	---	---	V	9.7
5228.833000	---	111.19	---	---	V	9.7
5376.021000	59.47	---	80.00	20.53	H	10.3
5376.021000	---	54.88	60.00	5.12	H	10.3

802.11ax40 Mode:

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax40 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.4℃
Humidity:	49%
Atmospheric pressure:	103.1KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26

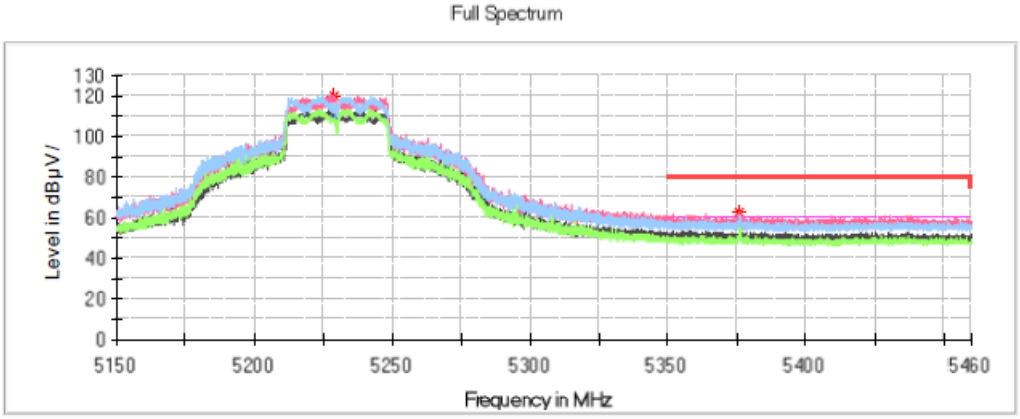


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5146.050000	---	54.47	60.00	5.53	H	9.4
5146.050000	65.34	---	80.00	14.66	H	9.4
5149.575000	---	58.21	60.00	1.79	H	9.4
5149.575000	64.17	---	80.00	15.83	H	9.4
5189.475000	---	103.30	---	---	H	9.6
5189.475000	113.11	---	---	---	H	9.6

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax40 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.4℃
Humidity:	49%
Atmospheric pressure:	103.1KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26



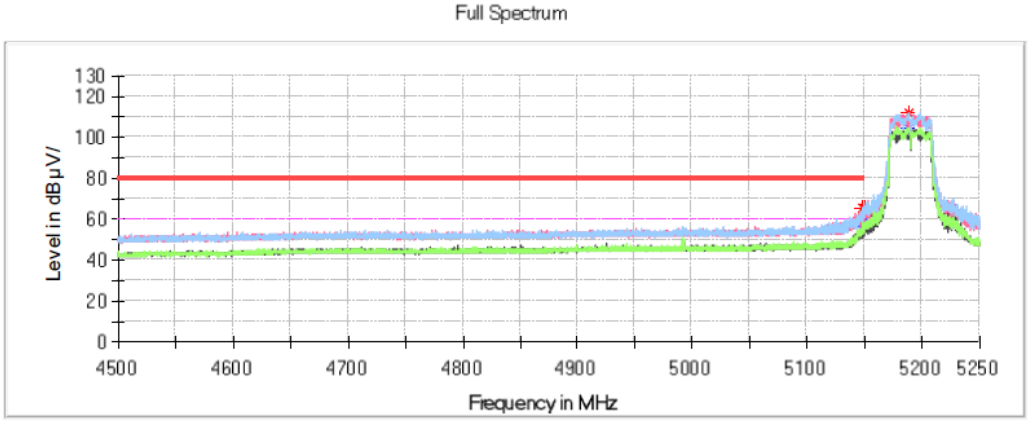
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5228.802000	---	111.33	---	---	V	9.7
5228.802000	119.76	---	---	---	V	9.7
5376.021000	62.46	---	80.00	17.54	V	10.3
5376.021000	---	56.10	60.00	3.90	V	10.3

802.11n-HT40 Mode:

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n40 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.4℃
Humidity:	49%
Atmospheric pressure:	103.1KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26



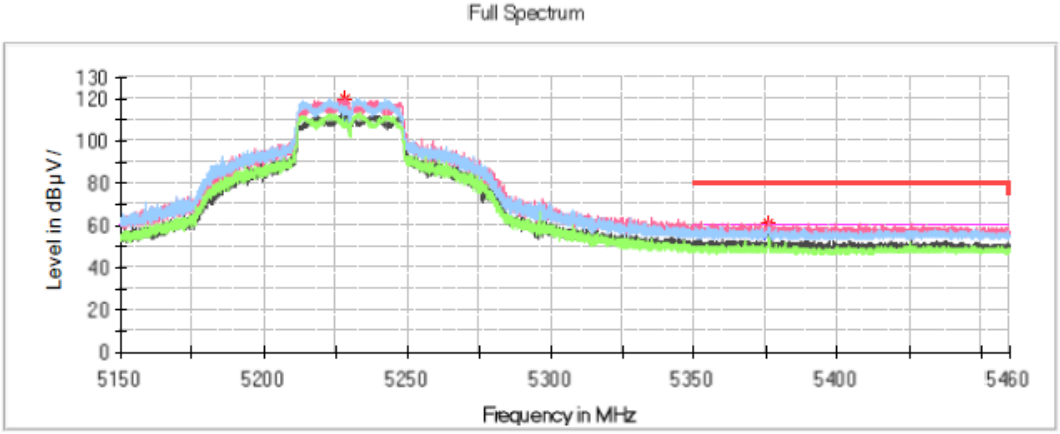
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5148.300000	65.08	---	80.00	14.92	H	9.4
5148.300000	---	57.95	60.00	1.85	H	9.4
5149.425000	65.82	---	80.00	14.18	H	9.4
5149.425000	---	57.42	60.00	2.58	H	9.4
5187.975000	---	104.56	---	---	H	9.6
5187.975000	111.63	---	---	---	H	9.6

Low Channel: 5230MHz

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n40 Mode High Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.4℃
Humidity:	49%
Atmospheric pressure:	103.1KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/26



Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5228.213000	119.65	---	---	---	V	9.7
5228.244000	---	111.92	---	---	V	9.7
5375.928000	60.59	---	80.00	19.41	V	10.3
5375.928000	---	55.24	60.00	4.76	V	10.3