

ELECTROMAGNETIC EMISSIONS  
TEST REPORT

**Applicant:** MediaTek Inc.  
No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City,  
30078 Taiwan

**Product Name:** 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

**Brand Name:** MediaTek

**Model No.:** MT7922A22M

**Model Difference:** N/A

**Report Number:** E2/2021/C0066

**FCC ID** RAS-MT7922A22M

**IC:** 7542A-MT7922A22M

**Issue Date:** February 11, 2022

**Date of Test:** December 16, 2021 ~ January 20, 2022

**Date of EUT Received:** December 10, 2021

Approved By

Vito Pei

Vito Pei

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISSED RSS-247.

The results of this report relate only to the sample identified in this report.

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2021/C0066	00	Original	February 11, 2022	Yuri Tsai	

**Note:**

- 1、The remark "" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product description

Product Name:	Notebook Computer
Brand Name:	<i>acer</i>
Model No. of FCC Host:	N22C2
Model No. of IC Host:	AN517-42
Model No. of BT/WLAN Module:	MT7922A22M
Class II & Class IV Permissive change:	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card INSTALLED IN Notebook Computer
Power Supply:	15.4Vdc from Rechargeable Li-ion Battery or 19.5Vdc from AC/DC Adapter

### 1.2 RF Specification

WLAN 2.4GHz				
Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2462	11	26.13	DSSS
802.11g	2412~2462	11	28.41	OFDM
802.11ac20	2412~2462	11	28.29	OFDM
802.11ac40	2422~2452	7	25.90	OFDM
802.11ax20	2412~2462	11	28.58	OFDMA
802.11ax40	2422~2452	7	26.14	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS		
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM		
		1024 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA		
Data Rate:		802.11 b: 1/2/5.5/11 Mbps		
		802.11 g: 6/9/12/18/24/36/48/54 Mbps		
		802.11 ac_20MHz: 6.5 - 144.4Mbps		
		802.11 ac_40MHz: 13.5 - 300Mbps		
		802.11 ax_20MHz: 7.3 - 286.8Mbps		
		802.11 ax_40MHz: 14.6 - 573.6Mbps		

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WLAN 2.4GHz for IC					
Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Modulation Technology
802.11b	2412~2462	11	26.13	27.62	DSSS
802.11g	2412~2462	11	28.41	27.63	OFDM
802.11ac20	2412~2462	11	28.29	24.70	OFDM
802.11ac40	2422~2452	7	25.90	22.40	OFDM
802.11ax20	2412~2462	11	28.58	27.54	OFDMA
802.11ax40	2422~2452	7	26.14	25.11	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM			
		1024 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA			
Data Rate:		802.11 b: 1/2/5.5/11 Mbps			
		802.11 g: 6/9/12/18/24/36/48/54 Mbps			
		802.11 ac_20MHz: 6.5 - 144.4Mbps			
		802.11 ac_40MHz: 13.5 - 300Mbps			
		802.11 ax_20MHz: 7.3 - 286.8Mbps			
		802.11 ax_40MHz: 14.6 - 573.6Mbps			

### 1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Main / Aux	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain(dBi)
PIFA	WNC	81EABS15.G09 (DC33002NN00)	Main	2.4GHz	0.47	4.11
		81EABS15.G10 (DC33002NN10)	Aux	2.4GHz	1.68	4.11

#### Note:

- Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- Antenna information is provided by the applicant.

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## 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen Issue 5, Amendment 2, February 2021

ANSI C63.10:2013

## 1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
<b>Note:</b> Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

## 1.6 Special Accessories

There are no special accessories used while test was conducted.

## 1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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## 2.4 Measurement Results Explanation Example

### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### 2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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## 2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission configuration



Fig. 2-2 Conducted (Antenna Port) Configuration Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Band Edge & Radiated Spurious Emission	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n/ac 20M.

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

7 channels are provided for 802.11n/ac 40M

CHANNEL	FREQUENCY (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452

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#### 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. aTest program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

Modulation	Transmission Chain				Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ax	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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## 4.3 Radiated Emission Test:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	6	2TX
802.11ac (VHT40)	3 to 9	3,6,9	OFDM	MCS0	MIMO

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,11	OFDM	6	2TX
802.11ax (HE20)	1 to 11	1,6,11	OFDMA	MCS0	MIMO
802.11ax (HE40)	3 to 9	3,6,9	OFDMA	MCS0	MIMO

**Note:**

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

## 4.4 Antenna Port Conducted Measurement:

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,11	OFDM	6	2TX
802.11ax (HE20)	1 to 11	1,6,11	OFDMA	MCS0	MIMO
802.11ax (HE40)	3 to 9	3,6,9	OFDMA	MCS0	MIMO

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Output Power measurement	+/- 1 dB

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 dB	9kHz~30MHz
	+/-	4.93 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.64 dB	9kHz~30MHz
	+/-	4.45 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 PEAK OUTPUT POWER MEASUREMENT

### 6.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

**Note:**

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$  = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

$G_k$  is the gain in dBi of the kth antenna.

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

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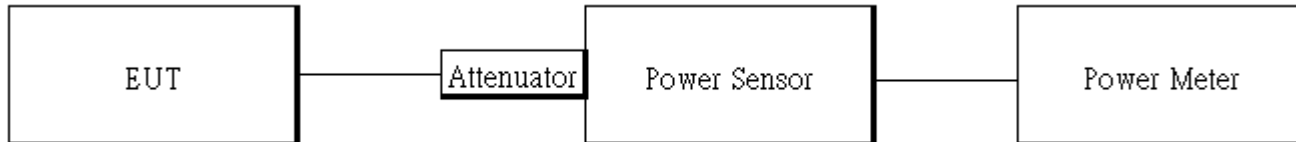
## 6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF158	11/18/2021	11/17/2022
Coaxial Cables	Woken	00100A1F1A 185C	RF87	11/18/2021	11/17/2022
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Meter	Anritsu	ML2496A	1326001	08/12/2021	08/11/2022

Note: N.C.R refers to No calibration required

## 6.3 Test Set-up

Power Meter:



## 6.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

### Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

**\* Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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## 6.5 Measurement Result

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	16.5	23.05	23.19	26.13	30.00	PASS
6	2437	1	15.5	22.54	23.25	25.92	30.00	PASS
11	2462	1	16	22.16	22.27	25.23	30.00	PASS
802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	16.5	20.22	20.72	23.51	30.00	PASS
6	2437	1	15.5	19.06	19.64	22.39	30.00	PASS
11	2462	1	16	19.67	19.73	22.73	30.00	PASS
802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	13.5	21.98	22.14	25.07	30.00	PASS
6	2437	6	17.5	25.12	25.67	28.41	30.00	PASS
11	2462	6	13.5	21.20	21.38	24.30	30.00	PASS
802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	13.5	15.86	16.21	19.18	30.00	PASS
6	2437	6	17.5	20.16	20.58	23.52	30.00	PASS
11	2462	6	13.5	15.82	15.94	19.02	30.00	PASS

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802.11ac_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS0	13.5	21.09	21.21	24.16	30.00	PASS
6	2437	MCS0	18	25.08	25.48	28.29	30.00	PASS
11	2462	MCS0	14.5	21.28	21.45	24.38	30.00	PASS
802.11ac_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS0	13.5	14.71	15.16	18.22	30.00	PASS
6	2437	MCS0	18	19.55	19.92	23.02	30.00	PASS
11	2462	MCS0	14.5	15.81	15.89	19.13	30.00	PASS

802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS0	11.5	19.19	19.29	22.25	30.00	PASS
6	2437	MCS0	16	22.55	23.20	25.90	30.00	PASS
9	2452	MCS0	12.5	19.63	19.79	22.72	30.00	PASS
802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS0	11.5	12.73	12.94	16.35	30.00	PASS
6	2437	MCS0	16	17.04	17.37	20.72	30.00	PASS
9	2452	MCS0	12.5	13.80	13.81	17.32	30.00	PASS

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802.11ax_HE20M MIMO										
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)		RESULT
					CH 0	CH 1				
1	2412	MCS0	full	14	21.98	22.12	25.06		30.00	PASS
			26/0	13.5	20.47	20.55	23.52		30.00	PASS
			106/53	13.5	21.64	21.77	24.72		30.00	PASS
6	2437	MCS0	full	18.5	25.20	25.73	28.48		30.00	PASS
			52/37	20	25.22	25.89	28.58		30.00	PASS
11	2462	MCS0	full	13.5	20.57	20.63	23.61		30.00	PASS
			26/8	13.5	20.56	20.65	23.62		30.00	PASS
			106/54	13	20.09	20.12	23.12		30.00	PASS
802.11ax_HE20M MIMO										
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)		RESULT
					CH 0	CH 1				
1	2412	MCS0	full	14	15.23	15.83	18.87		30.00	PASS
			26/0	13.5	14.78	15.27	18.36		30.00	PASS
			106/53	13.5	14.85	15.37	18.45		30.00	PASS
6	2437	MCS0	full	18.5	19.75	20.12	23.27		30.00	PASS
			26/8	20	20.06	20.14	23.43		30.00	PASS
11	2462	MCS0	full	13.5	14.70	14.85	18.11		30.00	PASS
			26/8	13.5	14.88	14.91	18.23		30.00	PASS
			106/54	13	14.09	14.41	17.58		30.00	PASS

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802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	11	18.66	18.95	21.82	30.00	PASS
6	2437	MCS0	full	16	22.75	23.48	26.14	30.00	PASS
9	2452	MCS0	full	11	18.38	19.48	21.98	30.00	PASS
802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	11	12.15	12.83	16.07	30.00	PASS
6	2437	MCS0	full	16	17.41	17.45	21.00	30.00	PASS
9	2452	MCS0	full	11	12.44	12.49	16.04	30.00	PASS

**\* Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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## 7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 7.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Note:**

1. The lower limit shall apply at the transition frequencies.

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## 7.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	DRH18-E	210105A18E	04/09/2021	04/08/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Highpass Filter	WI	WHKX10-2624-3200-1800-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-6090-7000-17000-80SS	1	05/10/2021	05/09/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 、 210220 、 210221	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224 、 210306	03/15/2021	03/14/2022

NOTE: N.C.R refers to Not Calibrated Required.

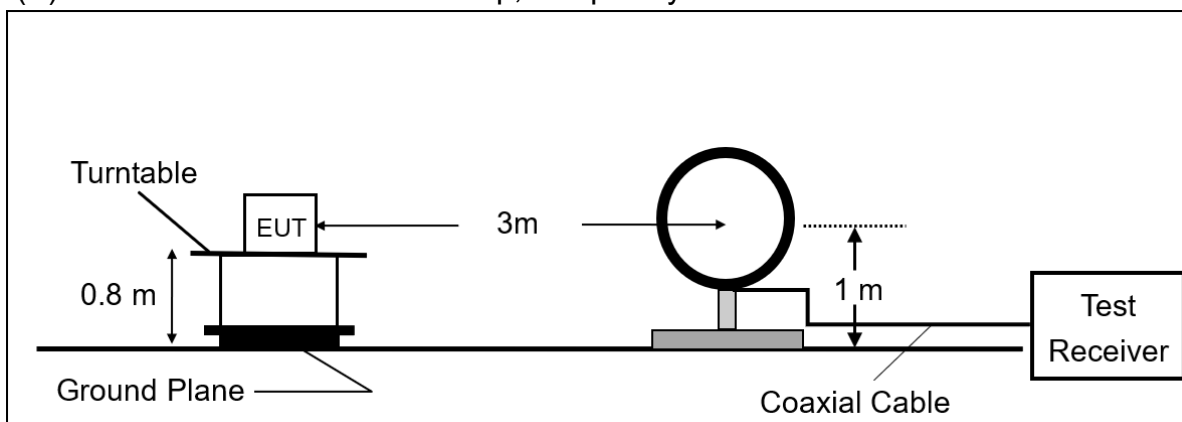
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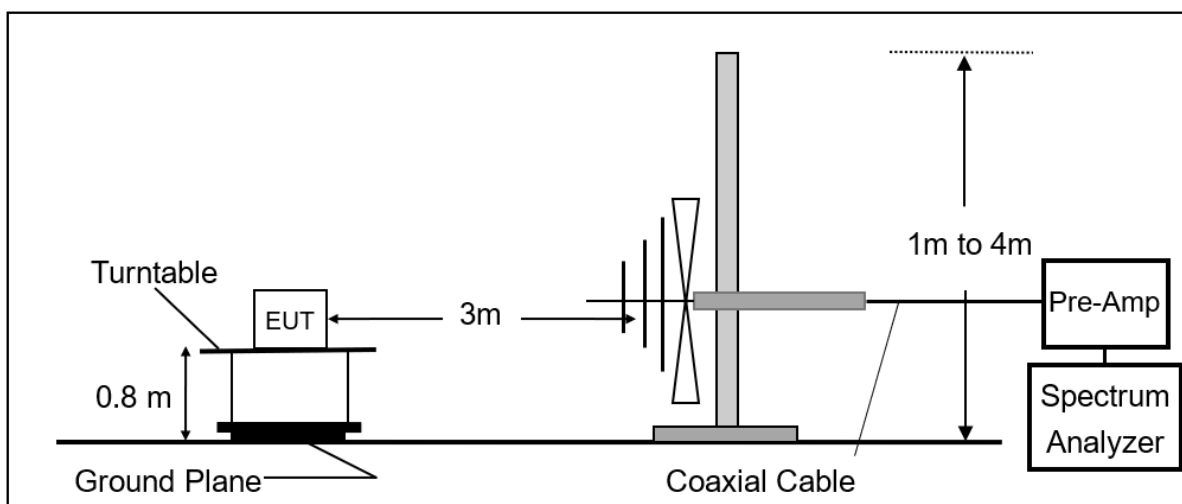
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## 7.3 Test SET-UP

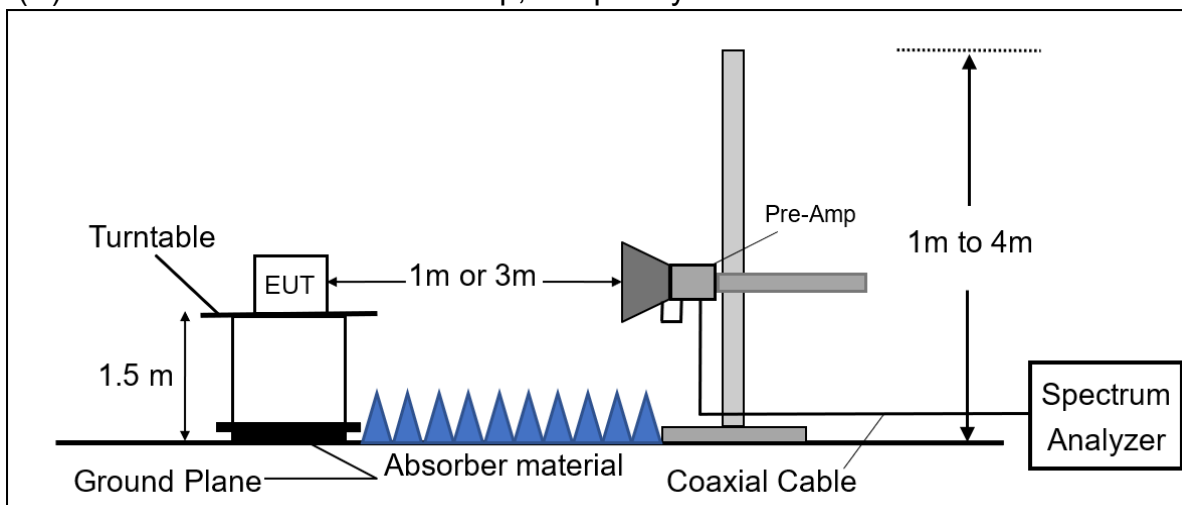
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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## 7.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
9. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq$  1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
10. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
13. Repeat above procedures until all default test channel measured were complete.

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## 7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

## 7.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

## 7.7 Measurement Result

### Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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### 7.7.1 Radiated Band Edge Measurement Result

Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11b

Test Date :2021-12-17

Test Frequency :2412 MHz

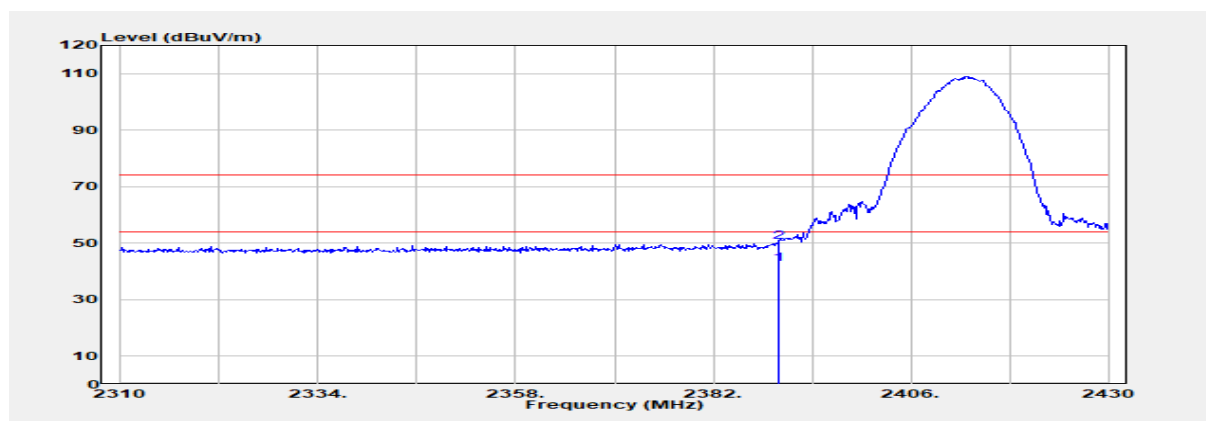
Temp./Humi. :24.6/59

Test Mode :BE CH 1

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2390.000	Average	46.28	-3.80	42.48	54.00	-11.52
2390.000	Peak	54.13	-3.80	50.33	74.00	-23.67

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Report Number :E2/2021/C0066

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :BE CH 1

EUT Pol :NB Plane

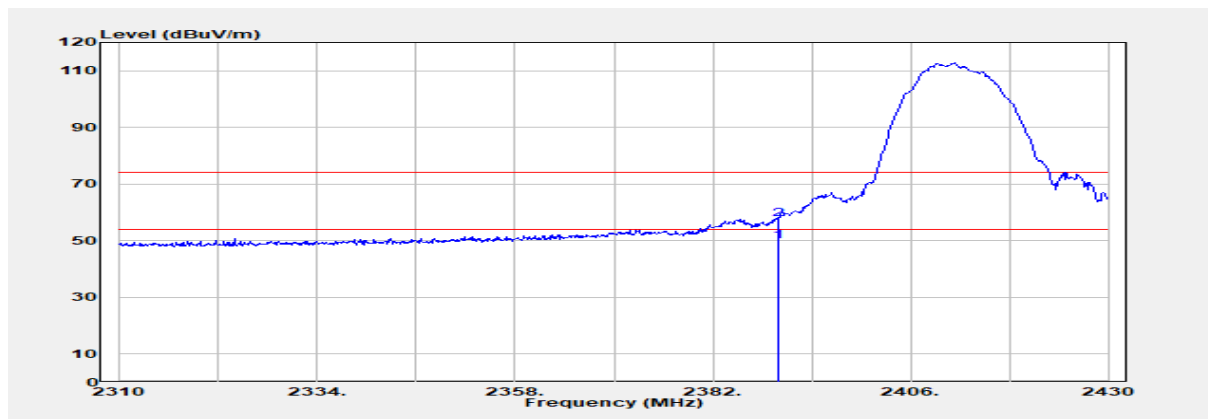
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Horizontal

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	53.60	-3.80	49.80	54.00	-4.20
2390.000	Peak	61.37	-3.80	57.57	74.00	-16.43

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Report Number :E2/2021/C0066

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

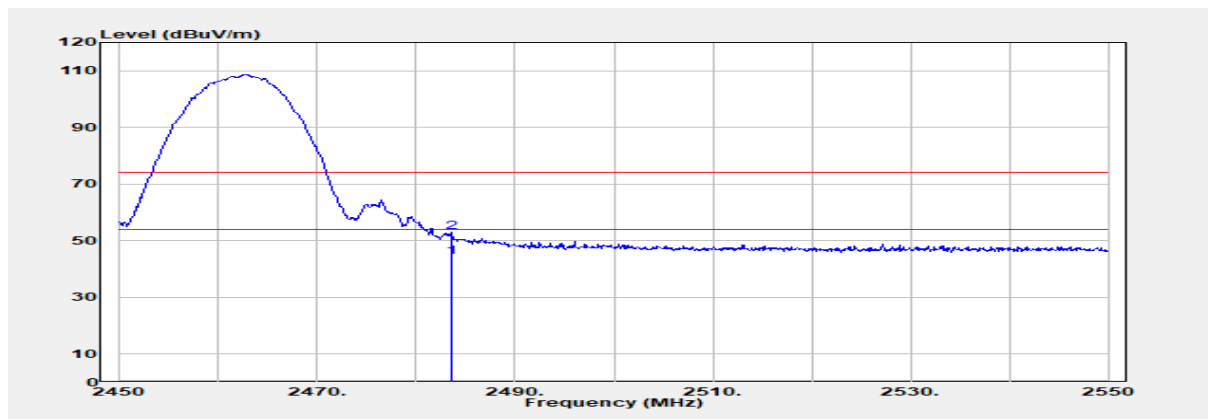
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Vertical

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	48.24	-3.92	44.33	54.00	-9.67
2483.500	Peak	57.04	-3.92	53.12	74.00	-20.88

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Report Number :E2/2021/C0066

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

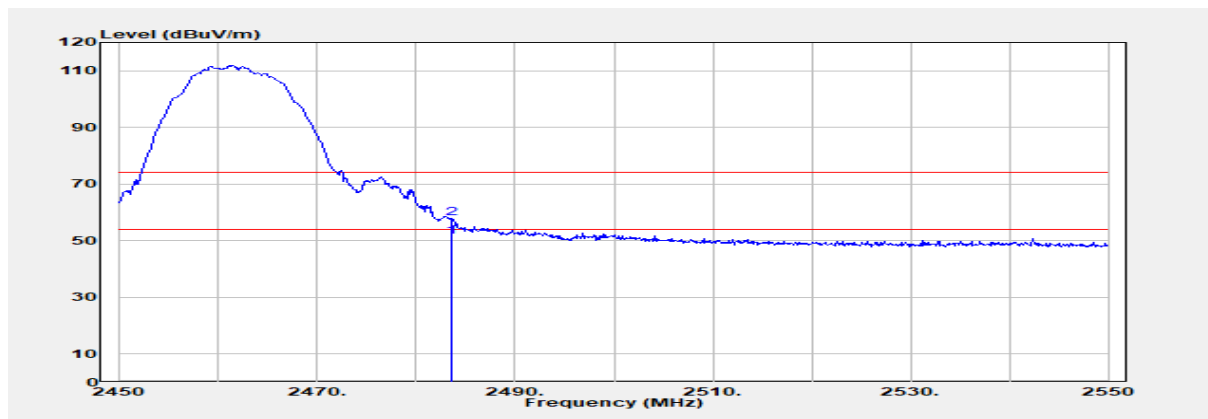
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Horizontal

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	55.20	-3.92	51.29	54.00	-2.71
2483.500	Peak	61.97	-3.92	58.05	74.00	-15.95

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Report Number :E2/2021/C0066

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :BE CH 1

EUT Pol :NB Plane

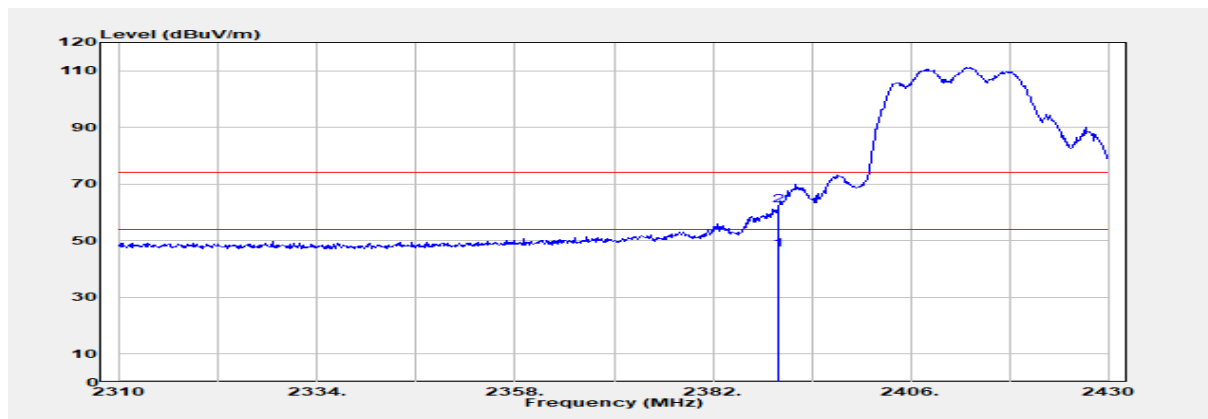
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	50.78	-3.80	46.98	54.00	-7.02
2390.000	Peak	66.34	-3.80	62.54	74.00	-11.46

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Report Number :E2/2021/C0066

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :BE CH 1

EUT Pol :NB Plane

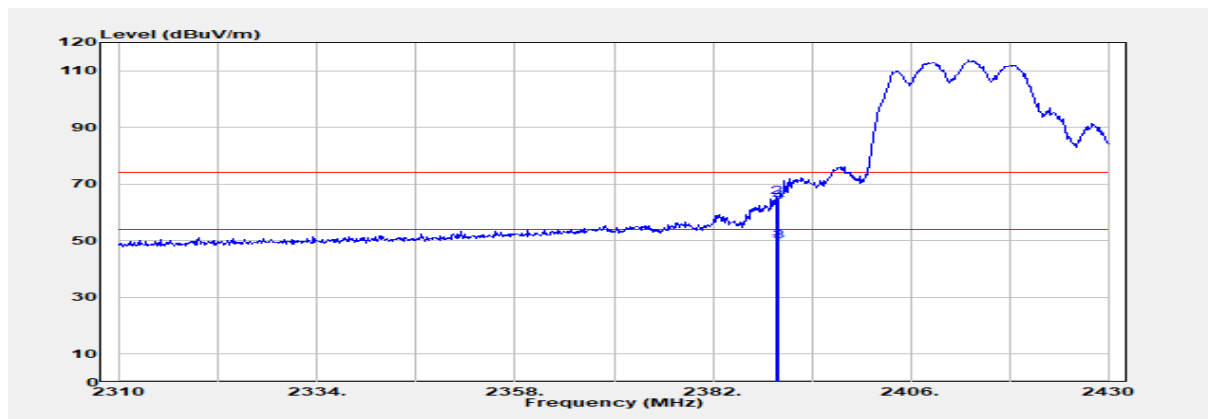
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2389.800	Average	52.73	-3.80	48.93	54.00	-5.07
2389.800	Peak	69.21	-3.80	65.41	74.00	-8.59
2390.000	Average	53.60	-3.80	49.80	54.00	-4.20
2390.000	Peak	67.56	-3.80	63.76	74.00	-10.24

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Report Number :E2/2021/C0066

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

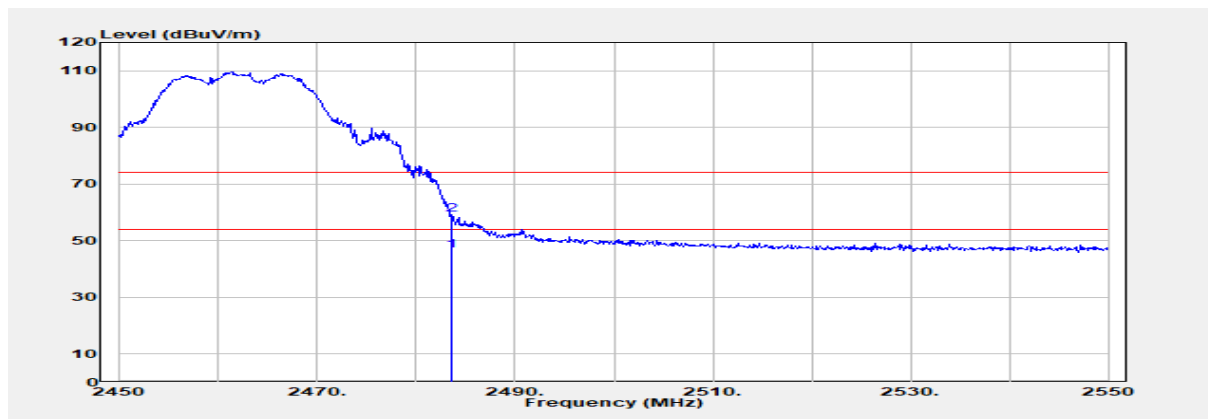
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	50.32	-3.92	46.40	54.00	-7.60
2483.500	Peak	63.14	-3.92	59.22	74.00	-14.78

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Report Number :E2/2021/C0066

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

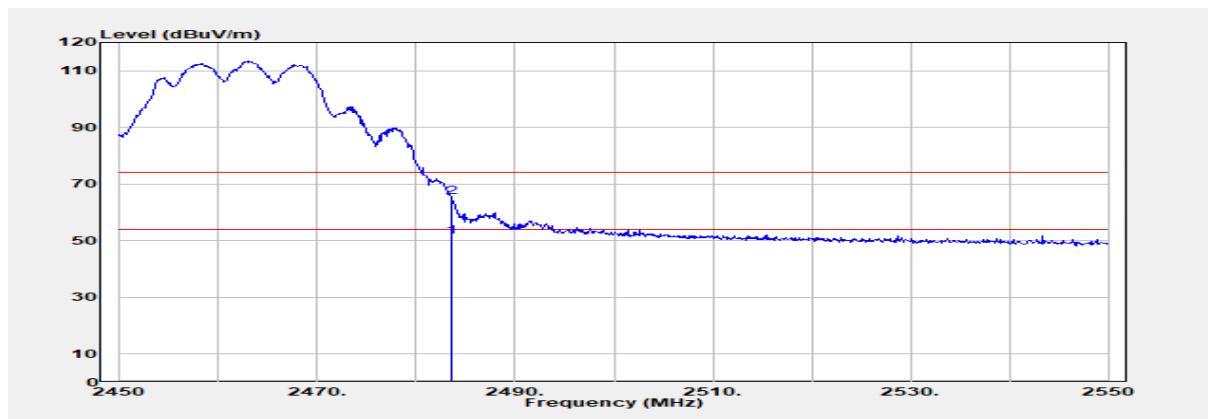
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	55.35	-3.92	51.43	54.00	-2.57
2483.500	Peak	69.34	-3.92	65.42	74.00	-8.58

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Report Number :E2/2021/C0066

Operation Mode :802.11ac20

Test Frequency :2412 MHz

Test Mode :BE CH 1

EUT Pol :NB Plane

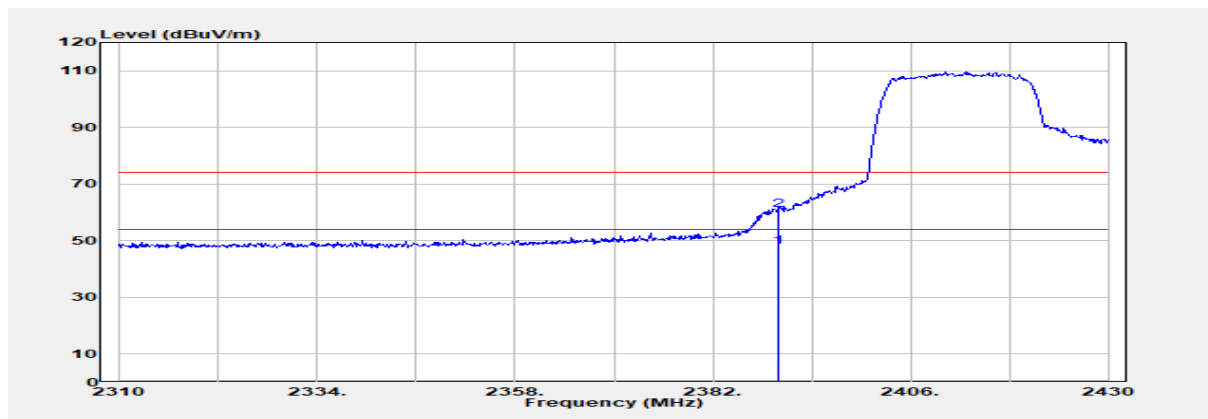
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	51.53	-3.80	47.73	54.00	-6.27
2390.000	Peak	64.67	-3.80	60.87	74.00	-13.13

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Report Number :E2/2021/C0066

Operation Mode :802.11ac20

Test Frequency :2412 MHz

Test Mode :BE CH 1

EUT Pol :NB Plane

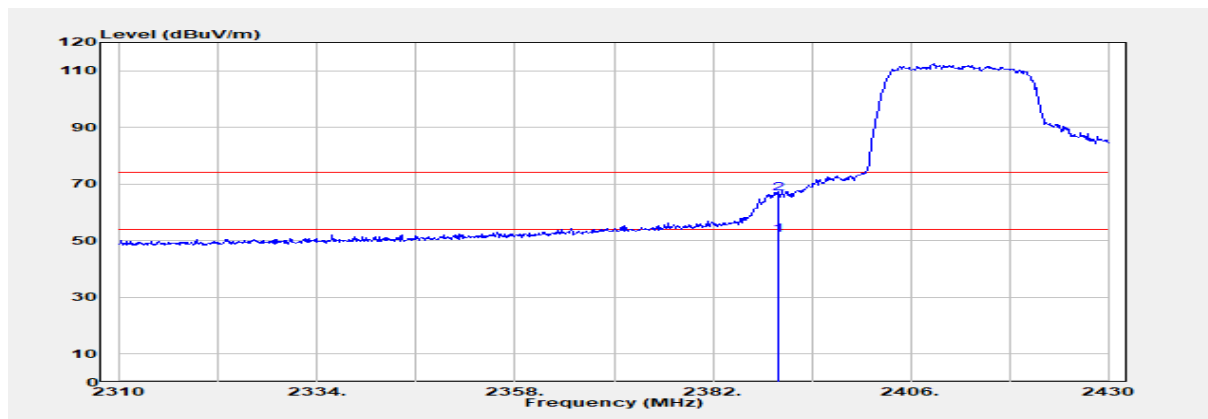
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	55.72	-3.80	51.92	54.00	-2.08
2390.000	Peak	70.41	-3.80	66.61	74.00	-7.39

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Report Number :E2/2021/C0066

Operation Mode :802.11ac20

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

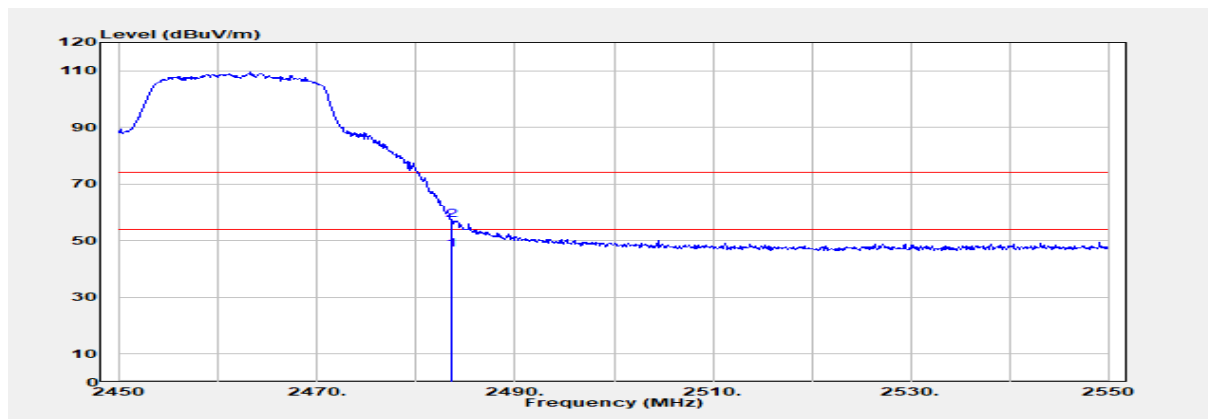
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.83	-3.92	46.91	54.00	-7.09
2483.500	Peak	61.12	-3.92	57.20	74.00	-16.80

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Report Number :E2/2021/C0066

Operation Mode :802.11ac20

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

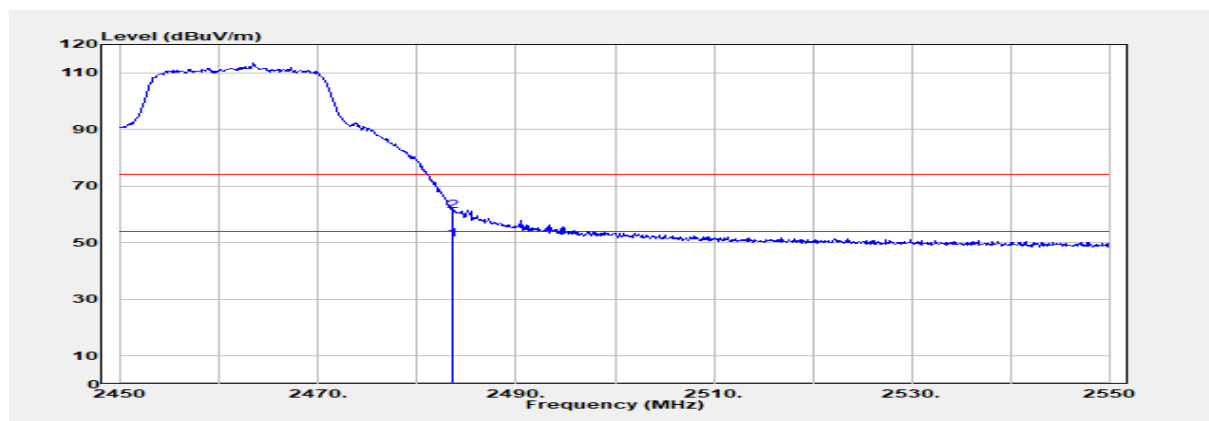
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	54.97	-3.92	51.05	54.00	-2.95
2483.500	Peak	65.14	-3.92	61.22	74.00	-12.78

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ac40

Test Date :2021-12-17

Test Frequency :2422 MHz

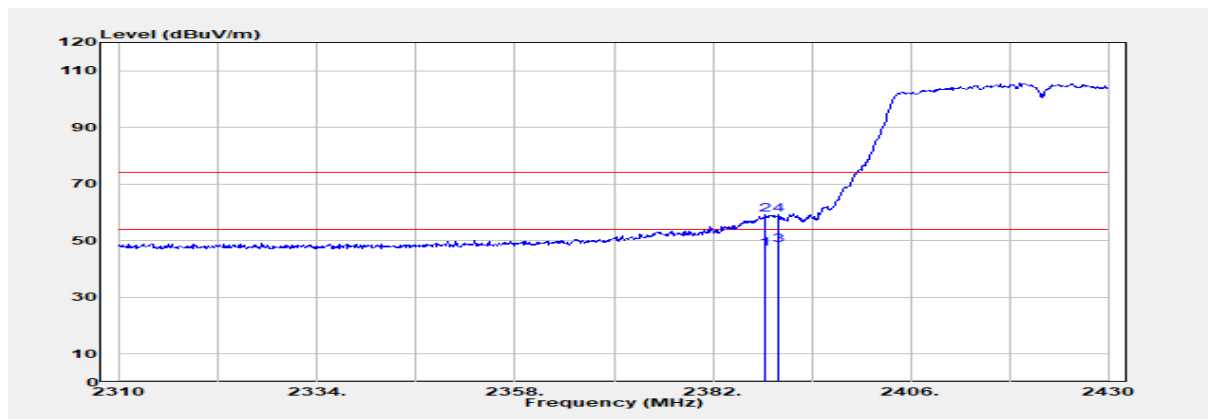
Temp./Humi. :24.6/59

Test Mode :BE CH 3

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.360	Average	50.79	-3.79	47.00	54.00	-7.00
2388.360	Peak	62.85	-3.79	59.06	74.00	-14.94
2390.000	Average	52.12	-3.80	48.32	54.00	-5.68
2390.000	Peak	63.10	-3.80	59.30	74.00	-14.70

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Report Number :E2/2021/C0066

Operation Mode :802.11ac40

Test Frequency :2422 MHz

Test Mode :BE CH 3

EUT Pol :NB Plane

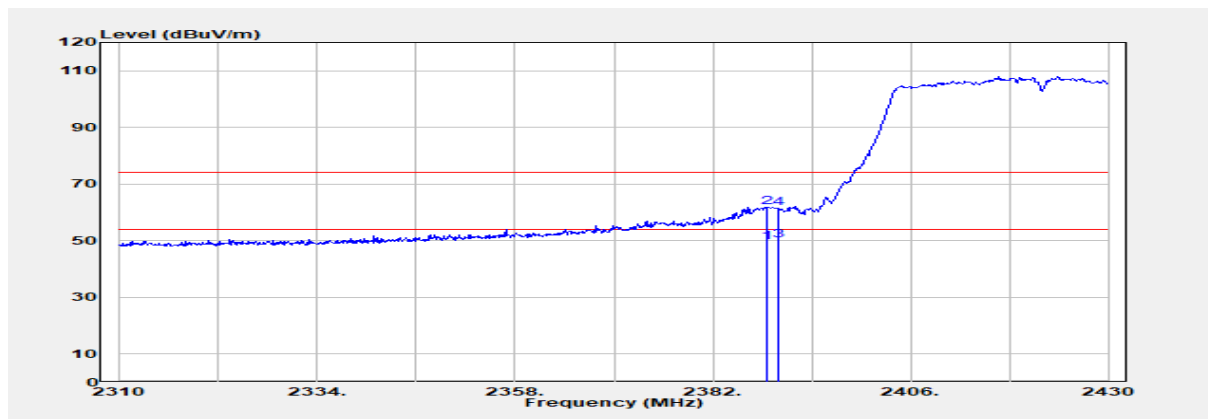
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.480	Average	53.21	-3.79	49.41	54.00	-4.59
2388.480	Peak	65.74	-3.79	61.95	74.00	-12.05
2390.000	Average	53.93	-3.80	50.13	54.00	-3.87
2390.000	Peak	65.28	-3.80	61.48	74.00	-12.52

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Report Number :E2/2021/C0066

Operation Mode :802.11ac40

Test Frequency :2452 MHz

Test Mode :BE CH 9

EUT Pol :NB Plane

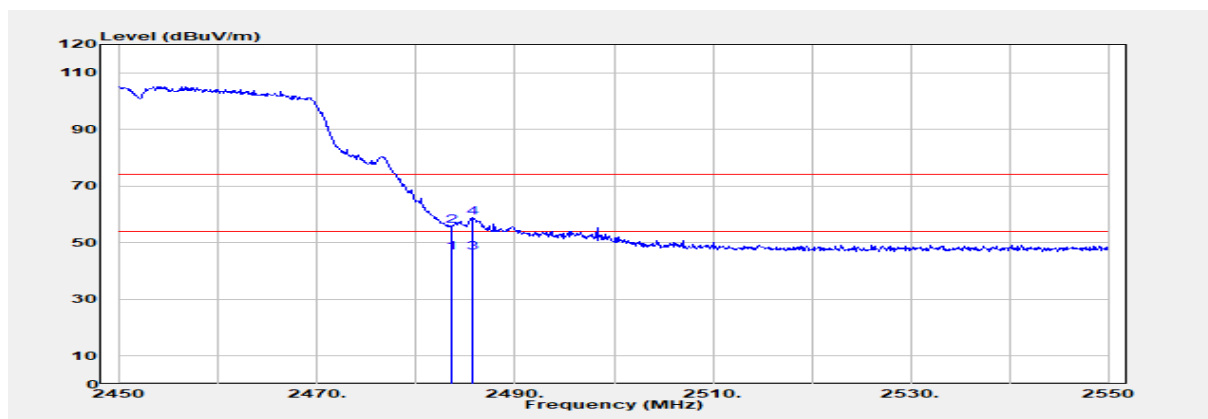
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Vertical

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	50.35	-3.92	46.43	54.00	-7.57
2483.500	Peak	59.83	-3.92	55.92	74.00	-18.08
2485.700	Average	50.36	-3.91	46.46	54.00	-7.54
2485.700	Peak	62.79	-3.91	58.88	74.00	-15.12

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Report Number :E2/2021/C0066

Operation Mode :802.11ac40

Test Frequency :2452 MHz

Test Mode :BE CH 9

EUT Pol :NB Plane

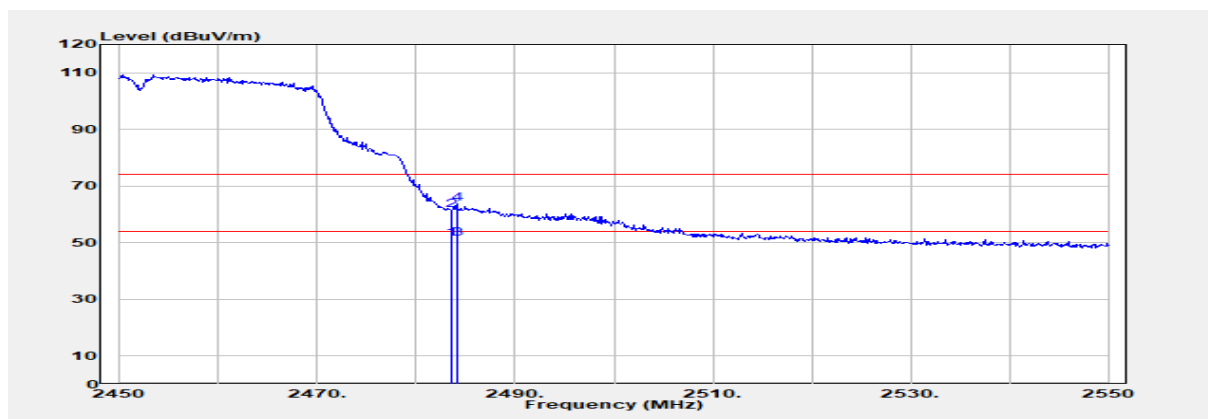
Test Site :SAC G

Test Date :2021-12-17

Temp./Humi. :24.6/59

Antenna Pol. :Horizontal

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	55.28	-3.92	51.36	54.00	-2.64
2483.500	Peak	65.26	-3.92	61.35	74.00	-12.65
2484.100	Average	55.22	-3.92	51.30	54.00	-2.70
2484.100	Peak	67.65	-3.92	63.74	74.00	-10.26

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-12-20

Test Frequency :2412 MHz

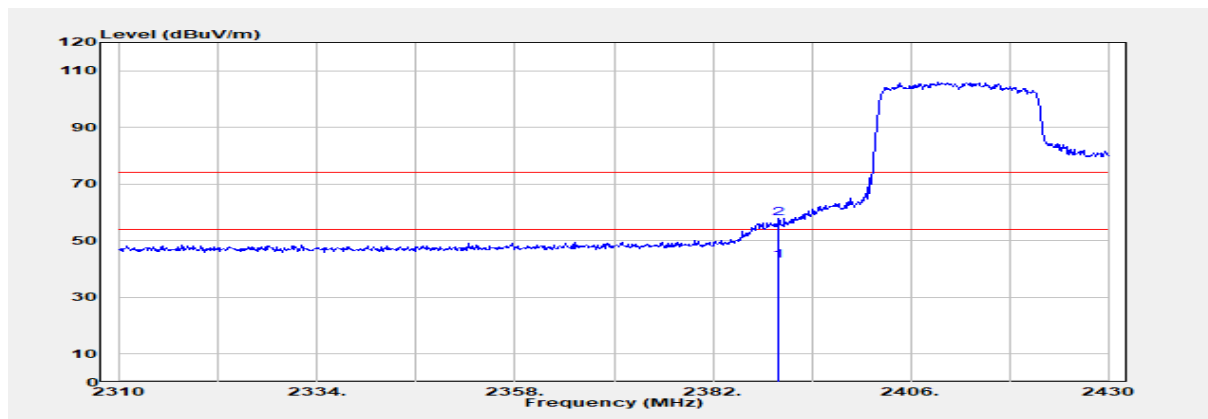
Temp./Humi. :22.9/58

Test Mode :BE CH 1 RU FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	46.88	-3.80	43.08	54.00	-10.92
2390.000	Peak	61.65	-3.80	57.85	74.00	-16.15

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-12-20

Test Frequency :2412 MHz

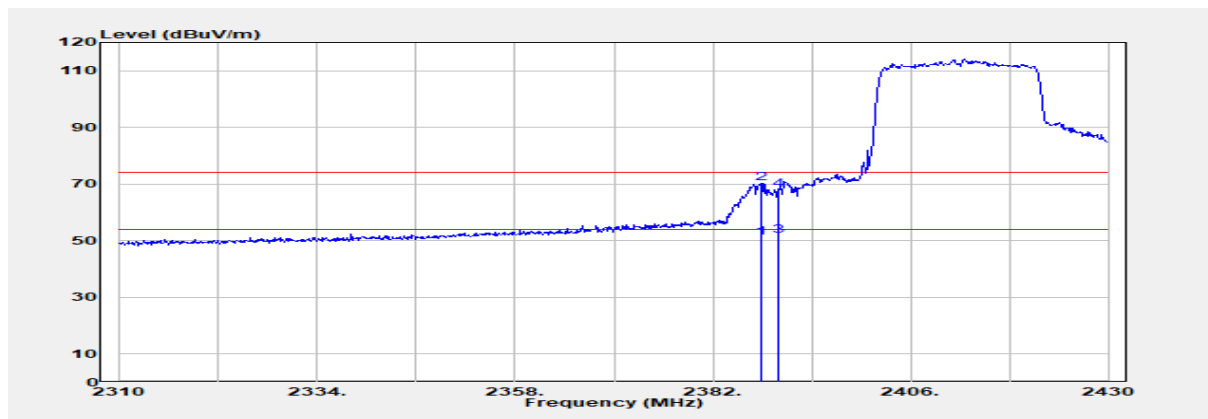
Temp./Humi. :22.9/58

Test Mode :BE CH 1 RU FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.880	Average	54.72	-3.79	50.92	54.00	-3.08
2387.880	Peak	74.18	-3.79	70.39	74.00	-3.61
2390.000	Average	55.67	-3.80	51.87	54.00	-2.13
2390.000	Peak	71.82	-3.80	68.02	74.00	-5.98

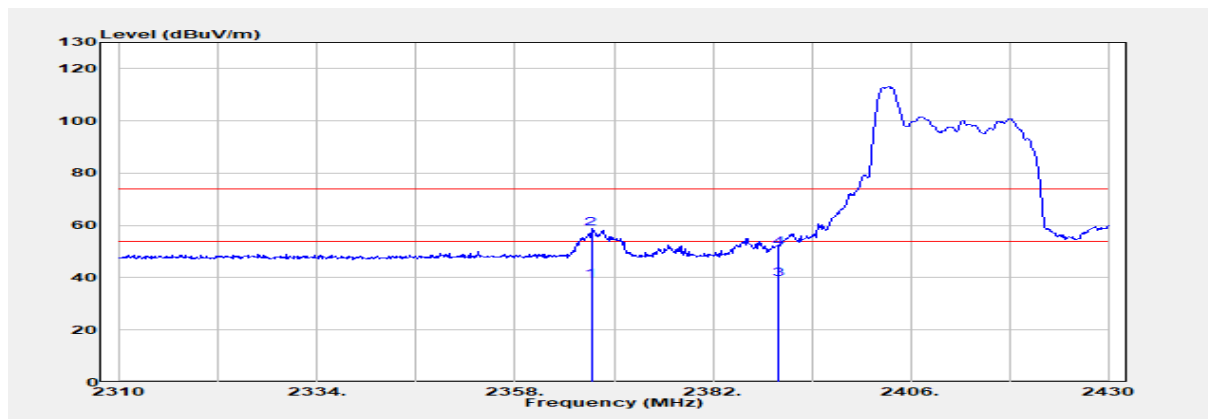
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Report Number :E2/2021/C0066  
Operation Mode :802.11ax20  
Test Frequency :2412 MHz  
Test Mode :BE CH 1 RU 26/0  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2021-12-20  
Temp./Humi. :22.9/58  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2367.240	Average	42.64	-3.66	38.98	54.00	-15.02
2367.240	Peak	62.52	-3.66	58.86	74.00	-15.14
2390.000	Average	43.20	-3.80	39.40	54.00	-14.60
2390.000	Peak	55.11	-3.80	51.31	74.00	-22.69

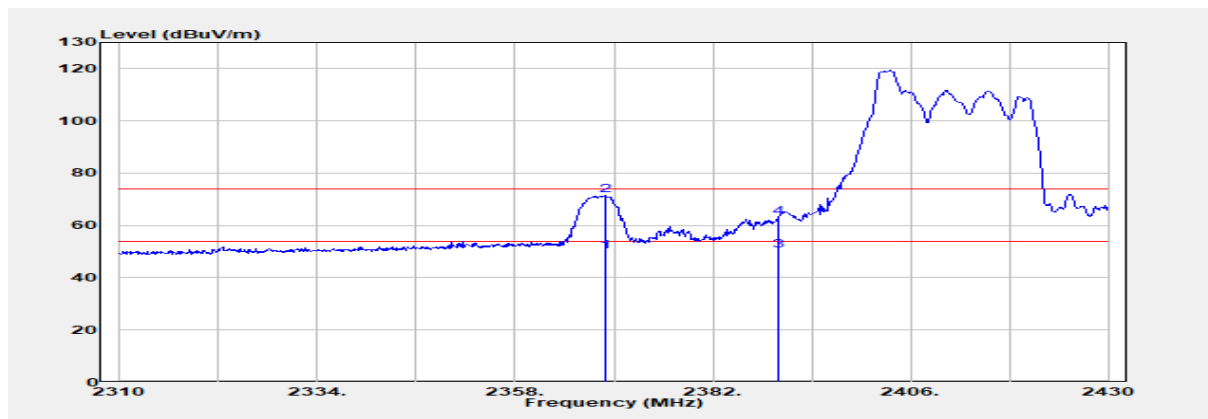
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Report Number :E2/2021/C0066  
 Operation Mode :802.11ax20  
 Test Frequency :2412 MHz  
 Test Mode :BE CH 1 RU 26/0  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-12-20  
 Temp./Humi. :22.9/58  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2368.920	Average	53.67	-3.67	50.00	54.00	-4.00
2368.920	Peak	75.10	-3.67	71.43	74.00	-2.57
2390.000	Average	54.33	-3.80	50.53	54.00	-3.47
2390.000	Peak	66.94	-3.80	63.14	74.00	-10.86

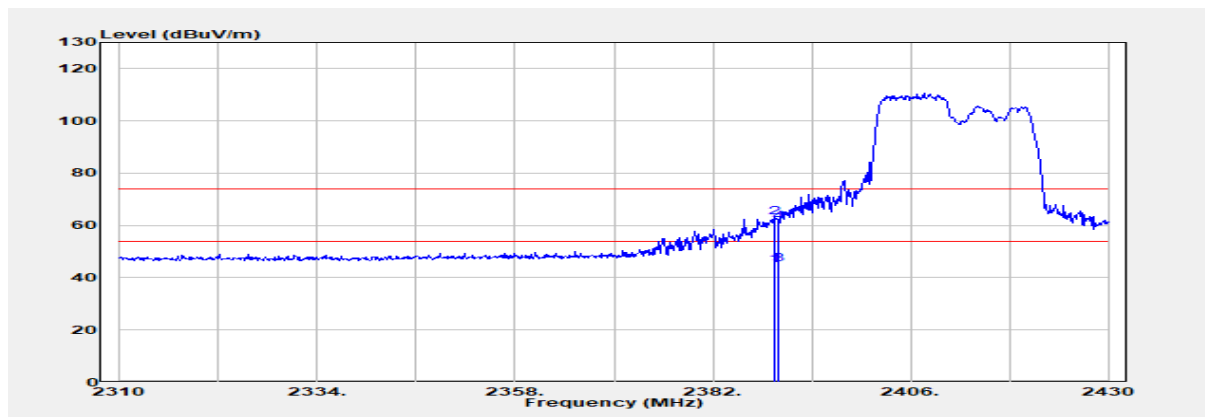
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Report Number :E2/2021/C0066  
 Operation Mode :802.11ax20  
 Test Frequency :2412 MHz  
 Test Mode :BE CH 1 RU 106/53  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-12-20  
 Temp./Humi. :22.9/58  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2389.560	Average	48.68	-3.80	44.88	54.00	-9.12
2389.560	Peak	66.76	-3.80	62.96	74.00	-11.04
2390.000	Average	48.98	-3.80	45.18	54.00	-8.82
2390.000	Peak	65.27	-3.80	61.47	74.00	-12.53

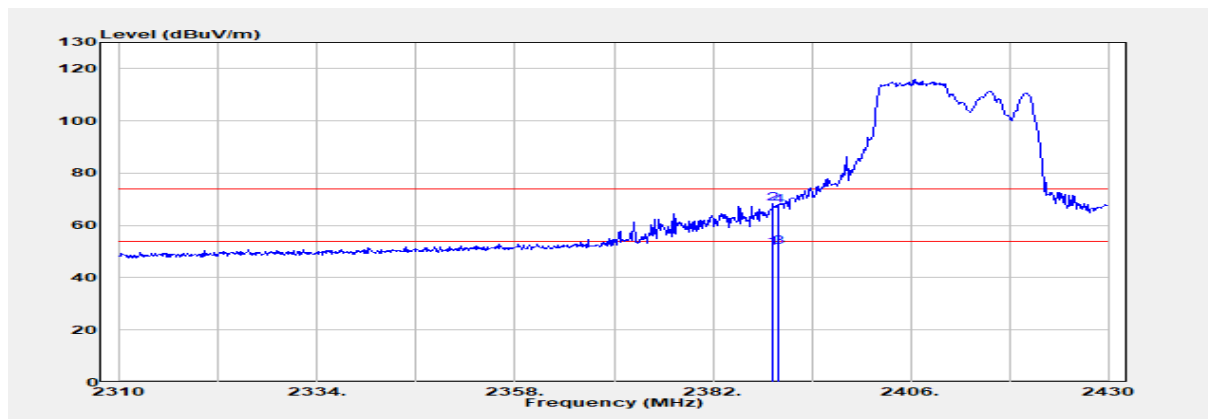
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Report Number :E2/2021/C0066  
Operation Mode :802.11ax20  
Test Frequency :2412 MHz  
Test Mode :BE CH 1 RU 106/53  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2021-12-20  
Temp./Humi. :22.9/58  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2389.320	Average	55.37	-3.80	51.57	54.00	-2.43
2389.320	Peak	72.06	-3.80	68.26	74.00	-5.74
2390.000	Average	55.74	-3.80	51.94	54.00	-2.06
2390.000	Peak	71.46	-3.80	67.66	74.00	-6.34

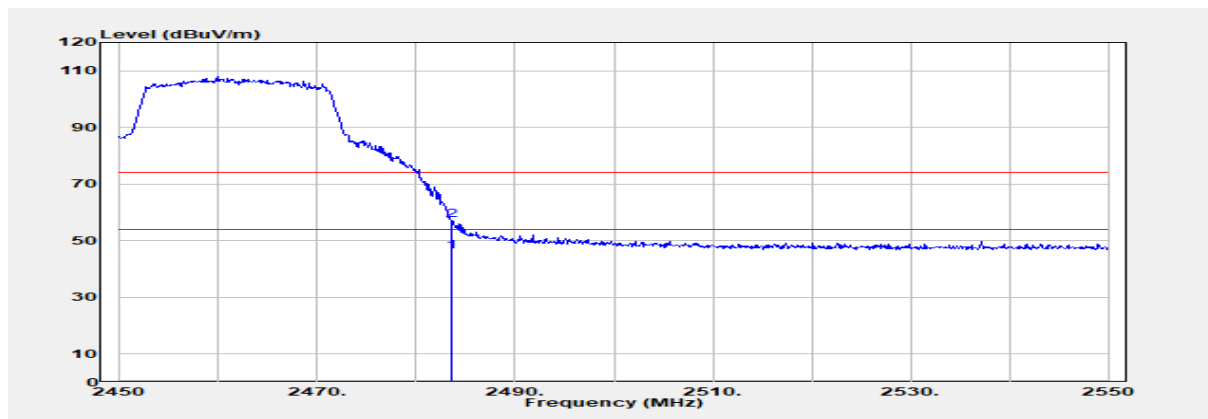
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Report Number :E2/2021/C0066  
 Operation Mode :802.11ax20  
 Test Frequency :2462 MHz  
 Test Mode :BE CH 11 RU FULL  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-12-20  
 Temp./Humi. :22.9/58  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	50.08	-3.92	46.16	54.00	-7.84
2483.500	Peak	61.17	-3.92	57.25	74.00	-16.75

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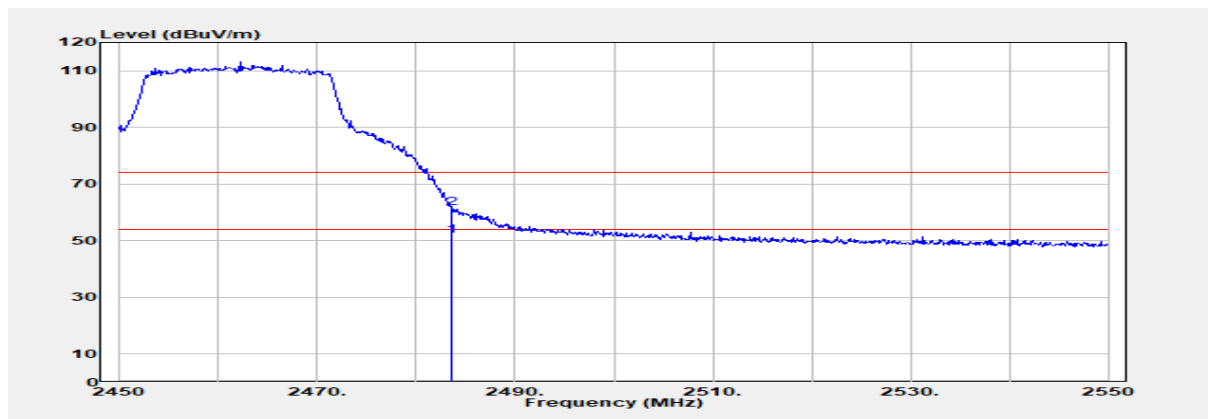
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Report Number :E2/2021/C0066  
 Operation Mode :802.11ax20  
 Test Frequency :2462 MHz  
 Test Mode :BE CH 11 RU FULL  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-12-20  
 Temp./Humi. :22.9/58  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	55.67	-3.92	51.75	54.00	-2.25
2483.500	Peak	65.47	-3.92	61.55	74.00	-12.45

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-12-20

Test Frequency :2462 MHz

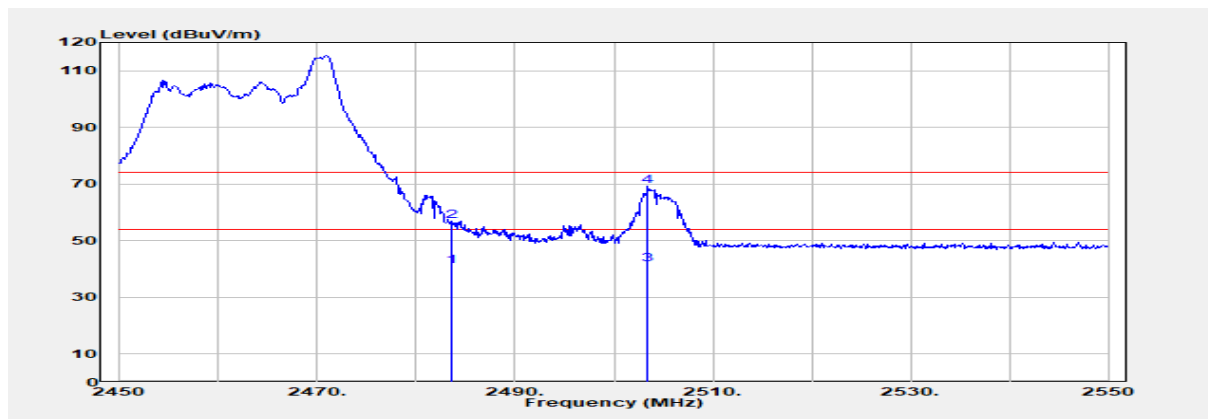
Temp./Humi. :22.9/58

Test Mode :BE CH 11 RU 26/8

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	44.74	-3.92	40.83	54.00	-13.17
2483.500	Peak	60.87	-3.92	56.95	74.00	-17.05
2503.400	Average	45.47	-3.90	41.57	54.00	-12.43
2503.400	Peak	73.20	-3.90	69.30	74.00	-4.70

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-12-20

Test Frequency :2462 MHz

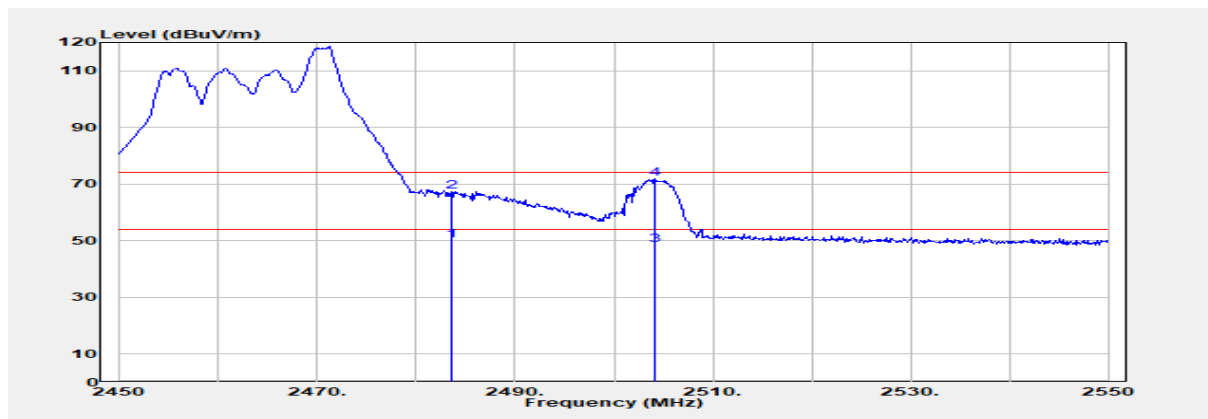
Temp./Humi. :22.9/58

Test Mode :BE CH 11 RU 26/8

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	53.85	-3.92	49.93	54.00	-4.07
2483.500	Peak	71.09	-3.92	67.17	74.00	-6.83
2504.200	Average	52.42	-3.91	48.51	54.00	-5.49
2504.200	Peak	75.64	-3.91	71.73	74.00	-2.27

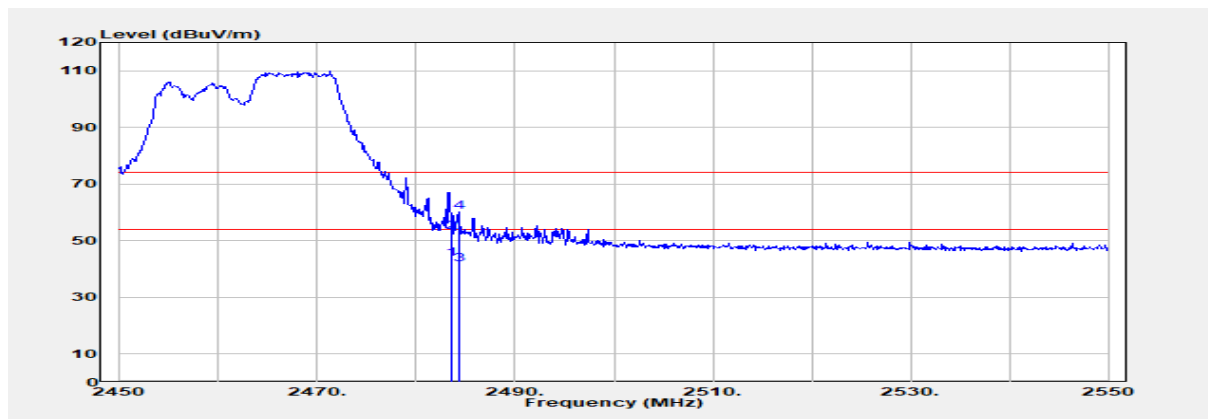
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Report Number :E2/2021/C0066  
 Operation Mode :802.11ax20  
 Test Frequency :2462 MHz  
 Test Mode :BE CH 11 RU 106/54  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-12-20  
 Temp./Humi. :22.9/58  
 Antenna Pol. :Vertical  
 Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	47.34	-3.92	43.42	54.00	-10.58
2483.500	Peak	57.06	-3.92	53.15	74.00	-20.85
2484.300	Average	45.68	-3.91	41.76	54.00	-12.24
2484.300	Peak	64.02	-3.91	60.11	74.00	-13.89

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-12-20

Test Frequency :2462 MHz

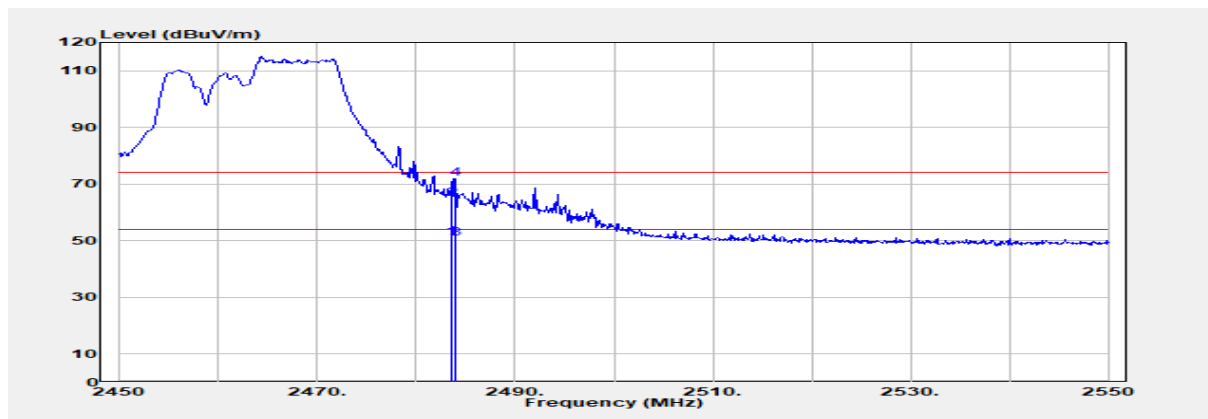
Temp./Humi. :22.9/58

Test Mode :BE CH 11 RU 106/54

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	54.88	-3.92	50.96	54.00	-3.04
2483.500	Peak	68.49	-3.92	64.57	74.00	-9.43
2483.900	Average	54.52	-3.92	50.61	54.00	-3.39
2483.900	Peak	75.89	-3.92	71.97	74.00	-2.03

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-12-20

Test Frequency :2422 MHz

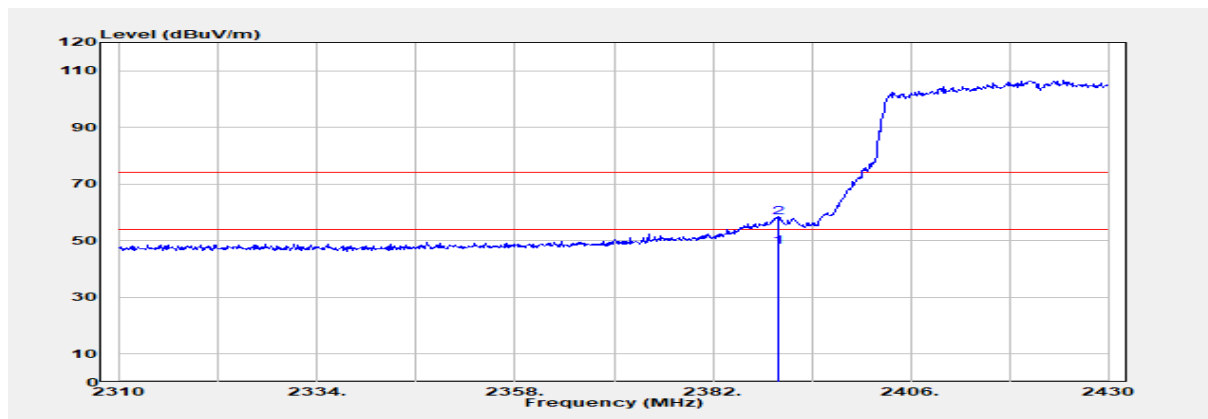
Temp./Humi. :22.9/58

Test Mode :BE CH 3 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	51.49	-3.80	47.69	54.00	-6.31
2390.000	Peak	62.07	-3.80	58.27	74.00	-15.73

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-12-20

Test Frequency :2422 MHz

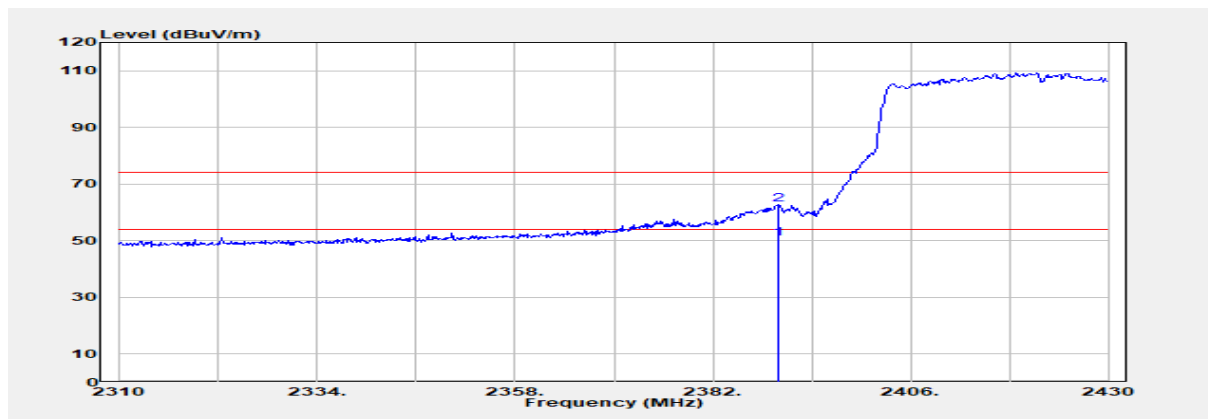
Temp./Humi. :22.9/58

Test Mode :BE CH 3 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2390.000	Average	54.51	-3.80	50.71	54.00	-3.29
2390.000	Peak	66.66	-3.80	62.86	74.00	-11.14

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-12-20

Test Frequency :2452 MHz

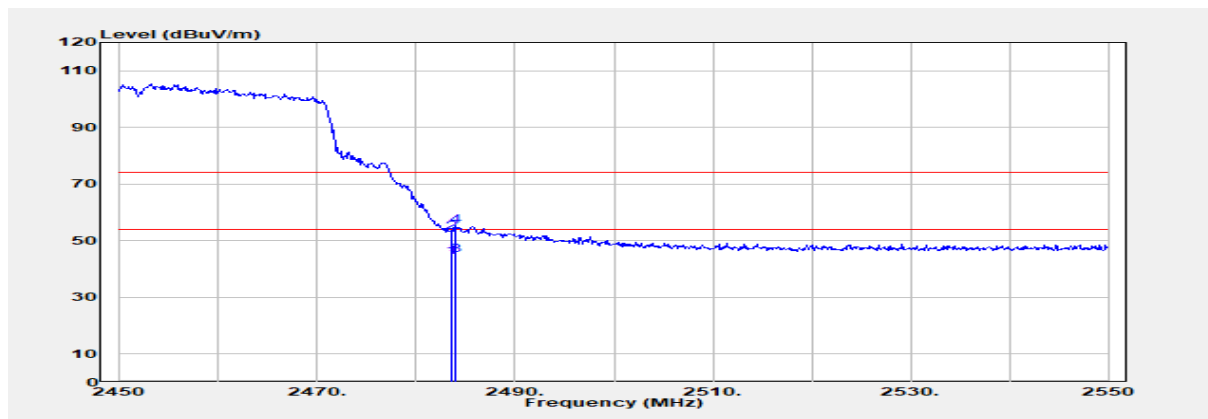
Temp./Humi. :22.9/58

Test Mode :BE CH 9 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	48.28	-3.92	44.36	54.00	-9.64
2483.500	Peak	56.92	-3.92	53.00	74.00	-21.00
2483.900	Average	48.72	-3.92	44.80	54.00	-9.20
2483.900	Peak	59.16	-3.92	55.24	74.00	-18.76

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-12-20

Test Frequency :2452 MHz

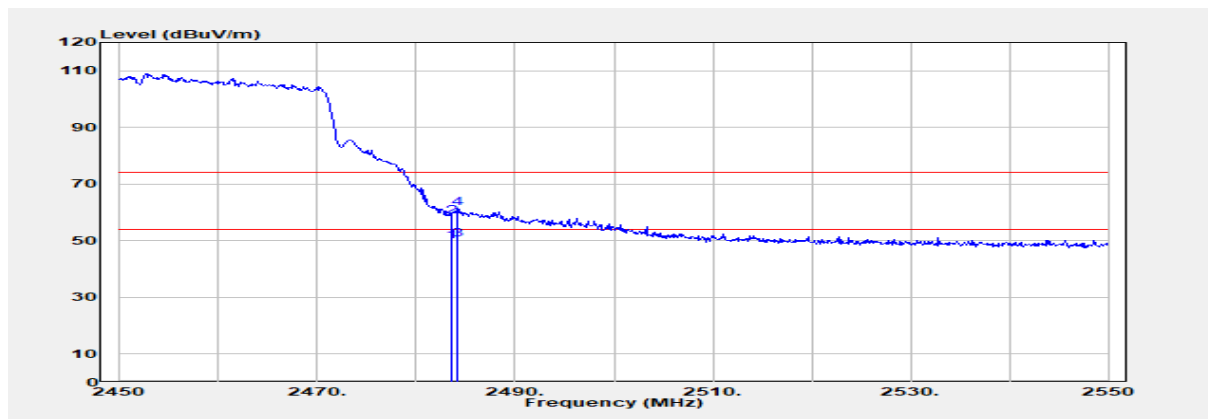
Temp./Humi. :22.9/58

Test Mode :BE CH 9 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	53.74	-3.92	49.82	54.00	-4.18
2483.500	Peak	62.43	-3.92	58.51	74.00	-15.49
2484.100	Average	54.40	-3.92	50.48	54.00	-3.52
2484.100	Peak	65.32	-3.92	61.40	74.00	-12.60

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### 7.7.2 Below 1GHz Worst-Case Emission:

Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11b

Test Date :2021-12-17

Test Frequency :2437 MHz

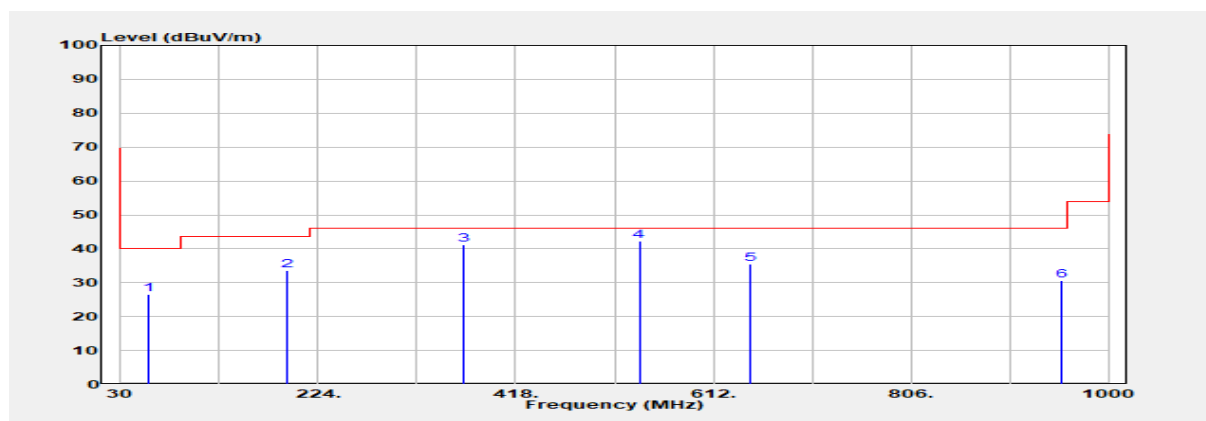
Temp./Humi. :24.6/59

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
57.160	Peak	40.07	-13.41	26.66	40.00	-13.34
192.960	Peak	49.63	-15.99	33.64	43.50	-9.86
367.560	Peak	52.09	-10.87	41.22	46.00	-4.78
539.250	Peak	49.31	-6.94	42.38	46.00	-3.62
648.860	Peak	40.36	-4.90	35.46	46.00	-10.54
954.410	Peak	30.07	0.61	30.68	46.00	-15.32

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11b

Test Date :2021-12-17

Test Frequency :2437 MHz

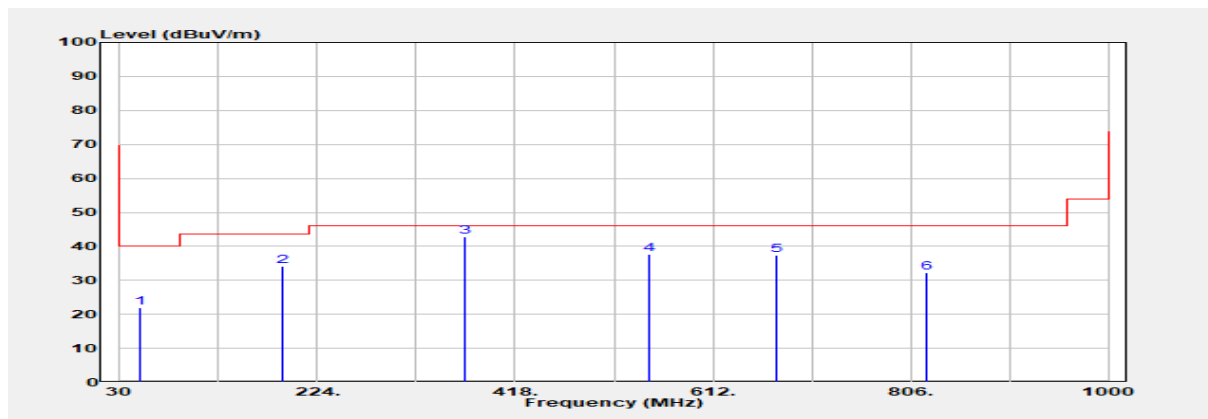
Temp./Humi. :24.6/59

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
49.400	Peak	34.86	-13.02	21.84	40.00	-18.16
189.080	Peak	49.77	-15.68	34.09	43.50	-9.41
369.500	Peak	53.69	-10.84	42.85	46.00	-3.15
549.920	Peak	44.34	-6.75	37.59	46.00	-8.41
674.080	Peak	42.13	-4.80	37.33	46.00	-8.67
822.490	Peak	34.30	-1.96	32.34	46.00	-13.66

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### 7.7.3 Above 1GHz Emission:

Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11b

Test Date :2021-12-17

Test Frequency :2437 MHz

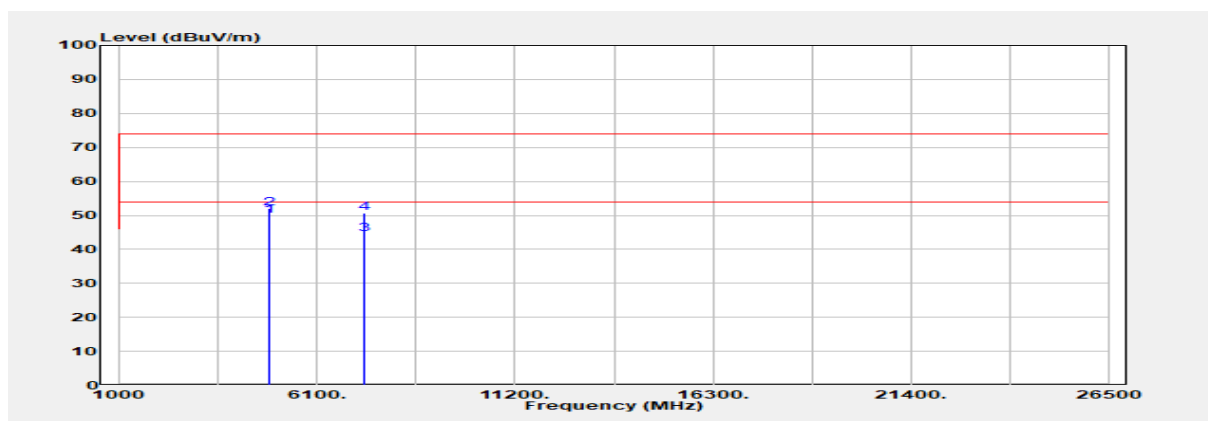
Temp./Humi. :24.6/59

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4874.000	Average	46.75	3.23	49.98	54.00	-4.02
4874.000	Peak	48.90	3.23	52.13	74.00	-21.87
7311.000	Average	36.82	7.68	44.49	54.00	-9.51
7311.000	Peak	42.98	7.68	50.66	74.00	-23.34

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Report Number :E2/2021/C0066

Test Site :SAC G

Operation Mode :802.11b

Test Date :2021-12-17

Test Frequency :2437 MHz

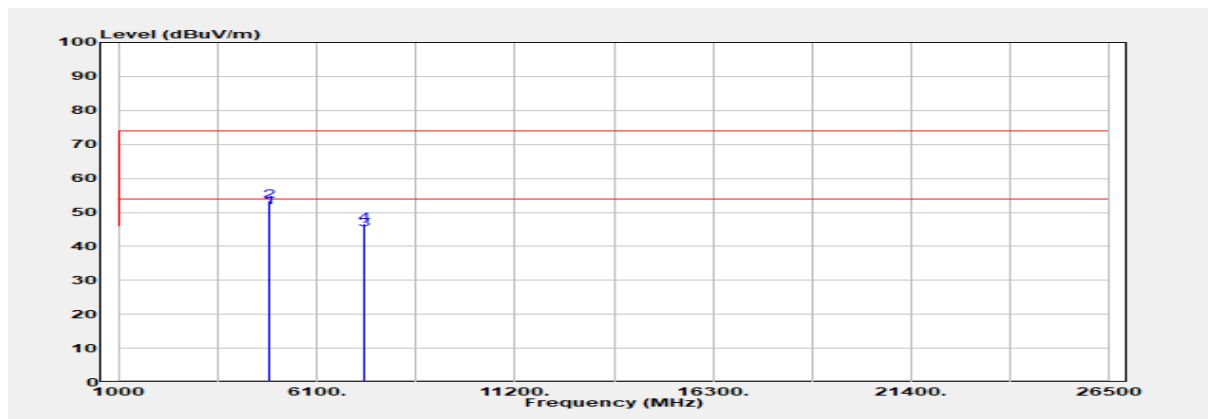
Temp./Humi. :24.6/59

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	48.36	3.23	51.59	54.00	-2.41
4874.000	Peak	50.03	3.23	53.26	74.00	-20.74
7311.000	Average	37.22	7.68	44.89	54.00	-9.11
7311.000	Peak	39.03	7.68	46.71	74.00	-27.29

~ End of Report ~

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