

ELECTROMAGNETIC EMISSIONS CLASS II & IV PERMISSIVE CHANGE 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: ER/2021/C0064

FCC ID RAS-MT7922A22M

IC: 7542A-MT7922A22M

Issue Date: February 11, 2022

Date of Test: December 21, 2021 ~ January 20, 2022

Date of EUT Received: December 9, 2021

Jet Lu

Approved By _____
Jet Lu

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, ISED 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
ER/2021/C0064	00	Original.	February 11, 2022	Karen Huang	

Note:

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

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Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION.....	7
3	SUMMARY OF TEST RESULTS	10
4	DESCRIPTION OF TEST MODES	11
5	MEASUREMENT UNCERTAINTY	14
6	PEAK OUTPUT POWER MEASUREMENT	15
7	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	23

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1 GENERAL INFORMATION

1.1 Product description of Host

Product Name:	Notebook Computer
Brand Name:	acer
FCC Model No.:	N22C1
IC Model No.:	AN515-46
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
Power Supply:	15.4Vdc

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2462	11	26.94	DSSS
802.11g	2412~2462	11	28.21	OFDM
802.11ac20	2412~2462	11	28.25	OFDM
802.11ac40	2422~2452	7	25.91	OFDM
802.11ax20	2412~2462	11	28.36	OFDMA
802.11ax40	2422~2452	7	26.26	OFDMA
Modulation type:	CCK, DQPSK, DBPSK for DSSS			
	256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM			
	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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1.3 Antenna Designation

Antenna Type	Main / Aux	Freq.	Peak Antenna Gain (dBi)	Direction Gain (dBi)
PIFA	Main	2.4GHz	2.6	4.45
	Aux	2.4GHz	0.1	4.45

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. 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 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6	TW0027	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G	TW3702	
			TW0028	

Note: 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

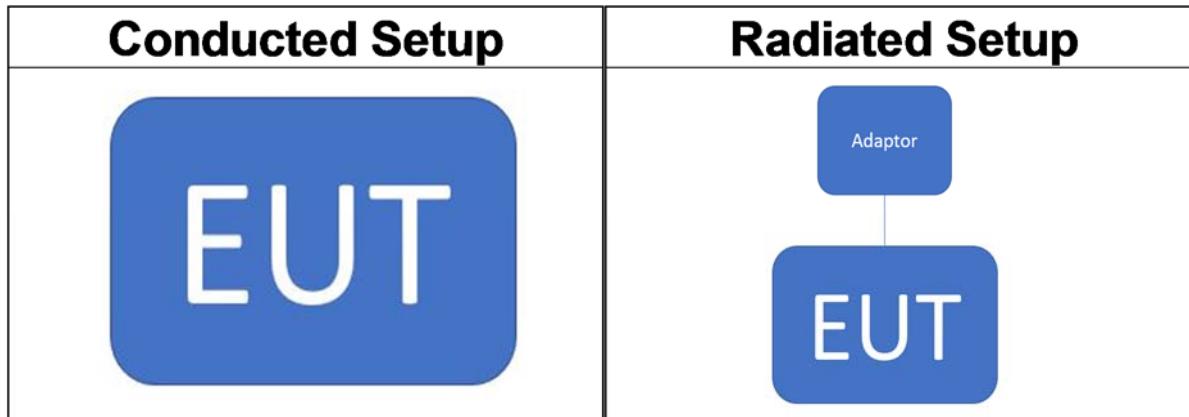


Table 2-1 Equipment Used in Tested System

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R
Adaptor	LITEON	PA-1331-99	KP330030041 39003E4PE01	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/ax 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

9 channels are provided for 802.11n/ac/ax

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						Single Transmission Spatial		Multi Transmission Spatial	
v	802.11 b	v	Ch0	v	Ch1		Ch2		Ch3		1TX
v	802.11 g	v	Ch0	v	Ch1		Ch2		Ch3		1TX
v	802.11 ac	v	Ch0	v	Ch1		Ch2		Ch3		SISO
v	802.11 ax	v	Ch0	v	Ch1		Ch2		Ch3		SISO
										v	2TX
										v	2TX
										v	MIMO
										v	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 Mesurement:

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	
AC Power Line Conducted Emission	+/-	2.34 dB
Output Power measurement	+/-	1 dB
Emission Bandwidth	+/-	1.53 Hz
Undesignable radiated emission measurement	+/-	1.68 dB
Peak Power Density	+/-	1.62 dB
Temperature	+/-	0.4 °C
Humidity	+/-	3.5 %
DC / AC Power Source	+/-	1 %

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 from 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.

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

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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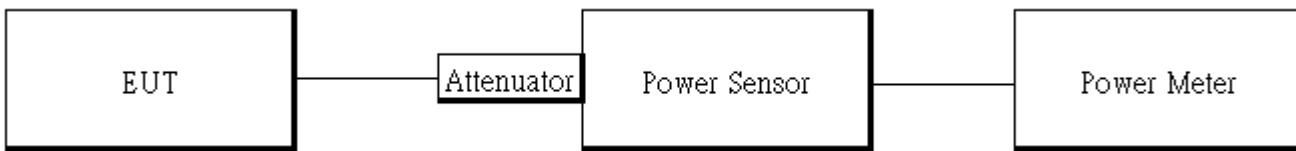
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6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	05/26/2021	05/25/2022
Power Meter	Anritsu	ML2496A	1242004	11/02/2021	11/01/2022
Power Sensor	Anritsu	MA2411B	1207365	11/02/2021	11/01/2022
Power Sensor	Anritsu	MA2411B	1207368	11/02/2021	11/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	2	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022

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	17	23.48	23.76	26.63	30.00	PASS
6	2437	1	17.5	23.80	24.05	26.94	30.00	PASS
11	2462	1	16	22.61	22.80	25.72	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	17	20.92	21.33	24.16	30.00	PASS
6	2437	1	17.5	21.41	21.74	24.61	30.00	PASS
11	2462	1	16	20.05	20.33	23.22	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	15	23.66	23.71	26.70	30.00	PASS
6	2437	6	17.5	25.45	24.93	28.21	30.00	PASS
11	2462	6	15	23.15	23.12	26.15	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	15	17.76	18.01	21.03	30.00	PASS
6	2437	6	17.5	20.35	20.48	23.56	30.00	PASS
11	2462	6	15	17.83	18.00	21.06	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	15.5	23.32	23.47	26.41	30.00	PASS
6	2437	MCS0	18	25.51	24.95	28.25	30.00	PASS
11	2462	MCS0	15.5	22.70	22.75	25.74	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	15.5	17.04	17.28	20.31	30.00	PASS
6	2437	MCS0	18	19.81	19.83	22.97	30.00	PASS
11	2462	MCS0	15.5	17.14	17.26	20.35	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	13	20.45	20.76	23.62	30.00	PASS
6	2437	MCS0	15.5	22.88	22.91	25.91	30.00	PASS
9	2452	MCS0	13	20.13	20.26	23.21	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	13	14.61	14.79	17.99	30.00	PASS
6	2437	MCS0	15.5	17.26	17.41	20.63	30.00	PASS
9	2452	MCS0	13	14.35	14.38	17.66	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	15	23.45	23.55	26.51	30.00	PASS
			26/0	14	24.11	24.91	27.54	30.00	PASS
			106/53	15	25.23	24.96	28.11	30.00	PASS
6	2437	MCS0	full	17.5	25.35	24.87	28.13	30.00	PASS
			52/37	18.5	25.62	25.06	28.36	30.00	PASS
11	2462	MCS0	full	13	20.76	20.95	23.87	30.00	PASS
			26/8	15.5	25.21	24.78	28.01	30.00	PASS
			106/54	14	24.70	24.74	27.73	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	15	16.87	17.14	20.58	30.00	PASS
			26/0	14	15.62	15.71	19.24	30.00	PASS
			106/53	15	16.34	16.50	19.99	30.00	PASS
6	2437	MCS0	full	17.5	19.43	19.55	23.06	30.00	PASS
			52/37	18.5	19.69	19.79	23.31	30.00	PASS
11	2462	MCS0	full	13	14.89	14.95	18.49	30.00	PASS
			26/8	15.5	16.96	17.01	20.56	30.00	PASS
			106/54	14	15.55	15.51	19.10	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	12.5	20.63	21.17	23.92	30.00	PASS
6	2437	MCS0	full	15.5	23.17	23.32	26.26	30.00	PASS
9	2452	MCS0	full	12.5	20.56	20.72	23.65	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	12.5	14.53	14.61	18.16	30.00	PASS
6	2437	MCS0	full	15.5	17.45	17.64	21.14	30.00	PASS
9	2452	MCS0	full	12.5	14.53	14.48	18.10	30.00	PASS

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

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EIRP

802.11b_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	20.92	21.33	24.16	4.45	28.61	36	PASS
6	2437	1	21.41	21.74	24.61	4.45	29.06	36	PASS
11	2462	1	20.05	20.33	23.22	4.45	27.67	36	PASS

802.11g_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	17.76	18.01	21.03	4.45	25.48	36	PASS
6	2437	6	20.35	20.48	23.56	4.45	28.01	36	PASS
11	2462	6	17.83	18.00	21.06	4.45	25.51	36	PASS

802.11ac_VHT20M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS0	17.04	17.28	20.31	4.45	24.76	36	PASS
6	2437	MCS0	19.81	19.83	22.97	4.45	27.42	36	PASS
11	2462	MCS0	17.14	17.26	20.35	4.45	24.80	36	PASS

802.11ac_VHT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS0	14.61	14.79	17.99	4.45	22.44	36	PASS
6	2437	MCS0	17.26	17.41	20.63	4.45	25.08	36	PASS
9	2452	MCS0	14.35	14.38	17.66	4.45	22.11	36	PASS

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802.11ax_HE20M MIMO

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
1	2412	MCS0	full	16.87	17.14	20.58	4.45	25.03	36	PASS
			26/0	15.62	15.71	19.24	4.45	23.69	36	PASS
			106/53	16.34	16.50	19.99	4.45	24.44	36	PASS
6	2437	MCS0	full	19.43	19.55	23.06	4.45	27.51	36	PASS
			52/37	19.69	19.79	23.31	4.45	27.76	36	PASS
11	2462	MCS0	full	14.89	14.95	18.49	4.45	22.94	36	PASS
			26/8	16.96	17.01	20.56	4.45	25.01	36	PASS
			106/54	15.55	15.51	19.10	4.45	23.55	36	PASS

802.11ax_HE40M MIMO

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
3	2422	MCS0	full	14.53	14.61	18.16	4.45	22.61	36	PASS
6	2437	MCS0	full	17.45	17.64	21.14	4.45	25.59	36	PASS
9	2452	MCS0	full	14.53	14.48	18.10	4.45	22.55	36	PASS

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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 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2021	09/26/2022
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/20/2021	08/19/2022
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2021	12/15/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8447D	2944A07676	12/16/2021	12/15/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/14/2021	12/13/2022
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022
Site Cal	SGS	SAC 3	N/A	01/01/2022	12/31/2022

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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
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
Highpass Filter	WI	WHKX10-1066-1300-1500-80SS	18	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

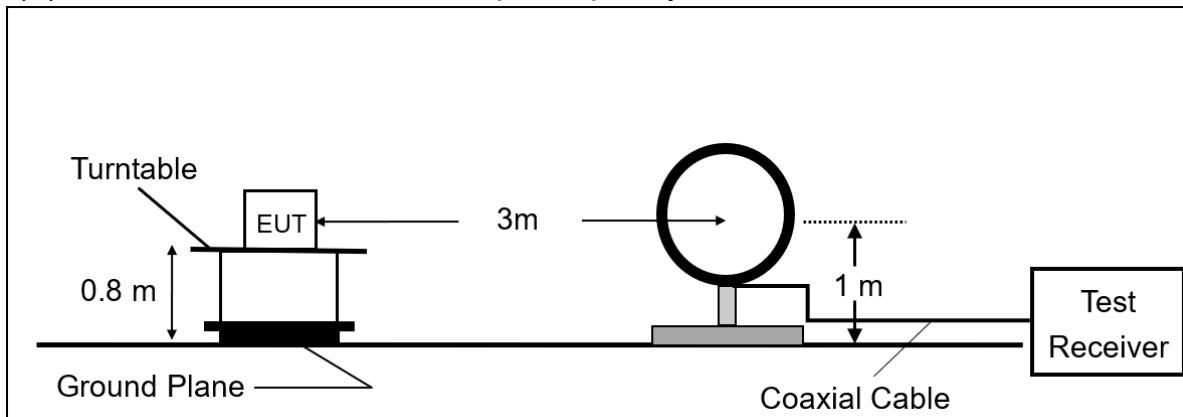
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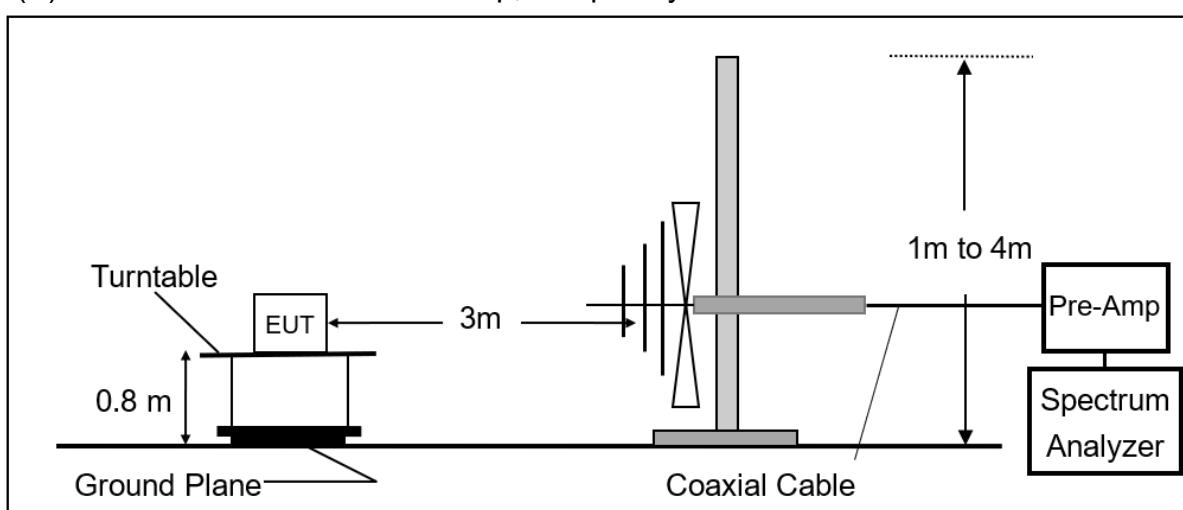
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7.3 Test SET-UP

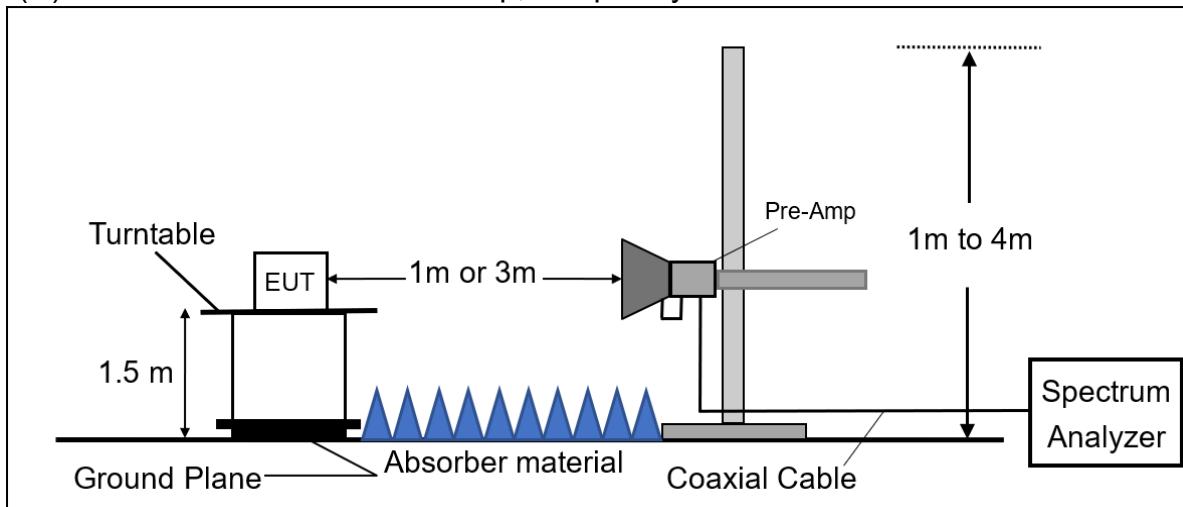
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 $dB\mu V/m$, which converts $20 * \log(uV/m)$

Actual $FS(dB\mu V/m)$ = SPA. Reading level($dB\mu V$) + Factor(dB)

Factor(dB) = Antenna Factor($dB\mu V/m$) + 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:

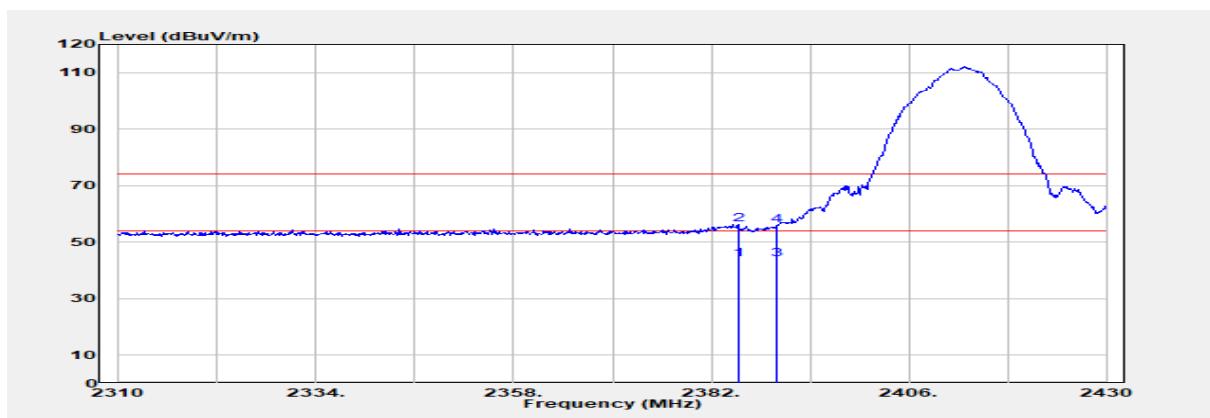
1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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7.7.1 Radiated Band Edge Measurement Result

Report Number	:ER/2021/C0064	Test Site	:SAC G
Operation Mode	:802.11b	Test Date	:2022-01-20
Test Frequency	:2412 MHz	Temp./Humi.	:21.5/65
Test Mode	:BE CH 1	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jason Yeh



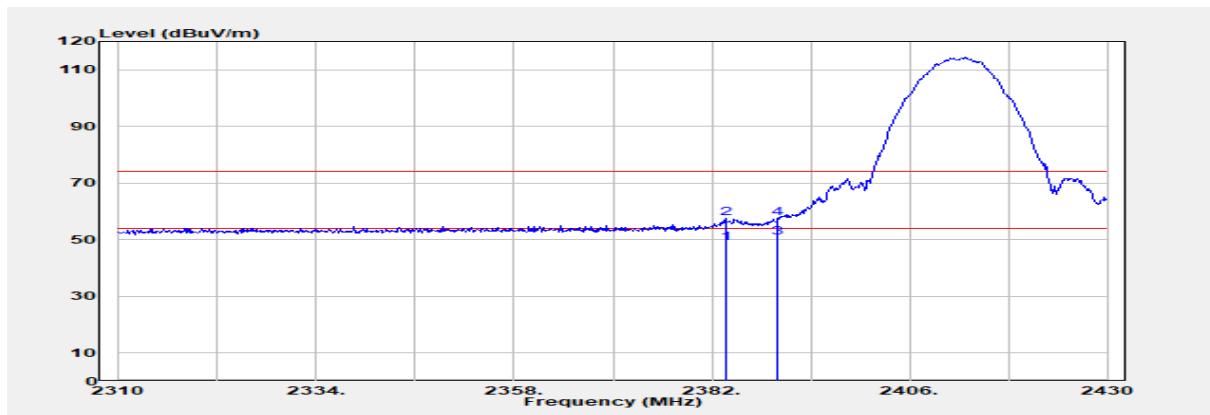
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin dB
				FS	@3m	
2385.240	Average	47.79	-3.78	44.01	54.00	-9.99
2385.240	Peak	60.20	-3.78	56.42	74.00	-17.58
2390.000	Average	47.62	-3.80	43.82	54.00	-10.18
2390.000	Peak	59.86	-3.80	56.06	74.00	-17.94

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11b Test Date :2022-01-20
 Test Frequency :2412 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 1 Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jason Yeh



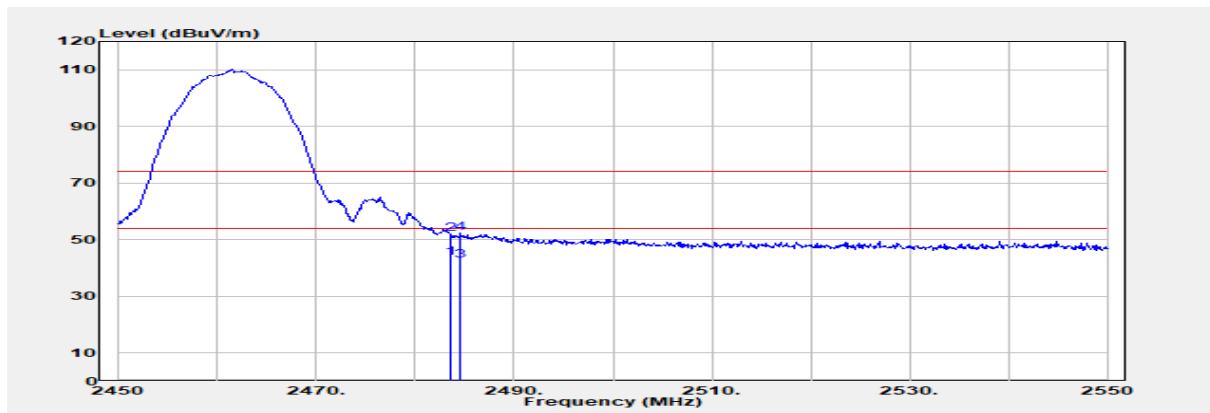
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2383.680	Average	52.49	-3.78	48.71	54.00	54.00	-5.29
2383.680	Peak	61.34	-3.78	57.57	74.00	74.00	-16.43
2390.000	Average	54.57	-3.80	50.77	54.00	54.00	-3.23
2390.000	Peak	61.21	-3.80	57.41	74.00	74.00	-16.59

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11b Test Date :2022-01-20
Test Frequency :2462 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 11 Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Quentin Liu



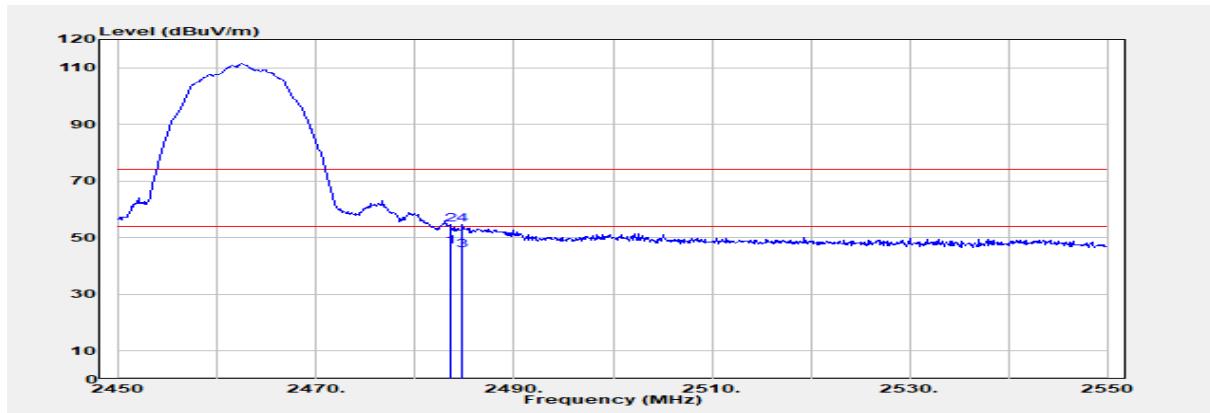
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	47.57	-3.92	43.66	54.00	-10.34
2483.500	Peak	55.82	-3.92	51.90	74.00	-22.10
2484.600	Average	46.41	-3.91	42.50	54.00	-11.50
2484.600	Peak	56.14	-3.91	52.23	74.00	-21.77

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11b Test Date :2022-01-20
Test Frequency :2462 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 11 Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Quentin Liu



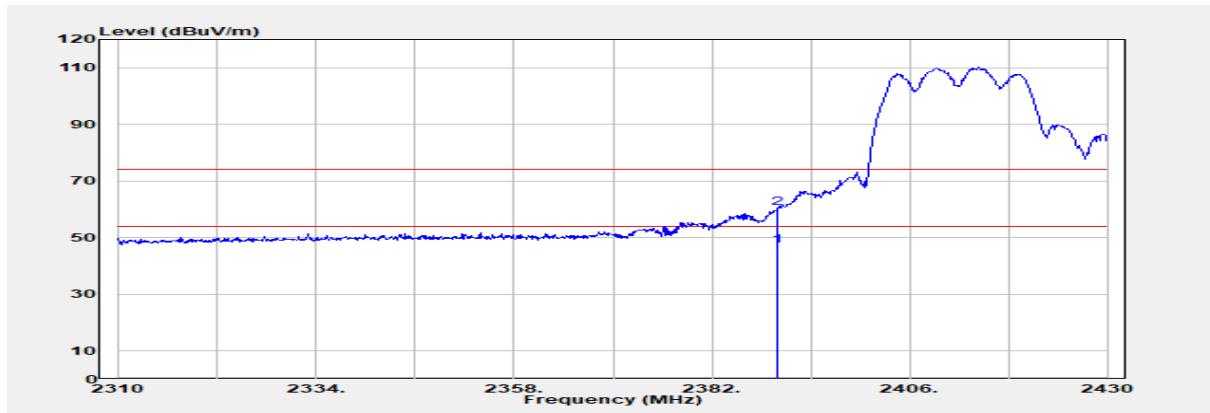
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual	Limit	Margin
				FS	@3m	dB
2483.500	Average	50.72	-3.92	46.80	54.00	-7.20
2483.500	Peak	58.43	-3.92	54.51	74.00	-19.49
2484.800	Average	49.48	-3.91	45.56	54.00	-8.44
2484.800	Peak	58.44	-3.91	54.53	74.00	-19.47

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11g Test Date :2022-01-20
 Test Frequency :2412 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 1 Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Quentin Liu



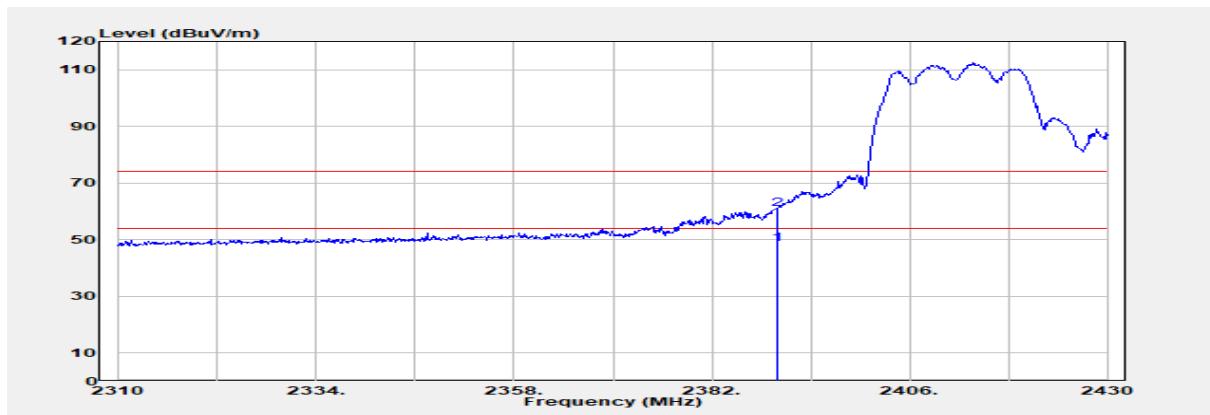
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2390.000	Average	50.88	-3.80	47.08	54.00	54.00	-6.92
2390.000	Peak	64.33	-3.80	60.53	74.00	74.00	-13.47

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11g Test Date :2022-01-20
Test Frequency :2412 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 1 Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2390.000	Average	52.39	-3.80	48.59	54.00	54.00	-5.41
2390.000	Peak	64.49	-3.80	60.69	74.00	74.00	-13.31

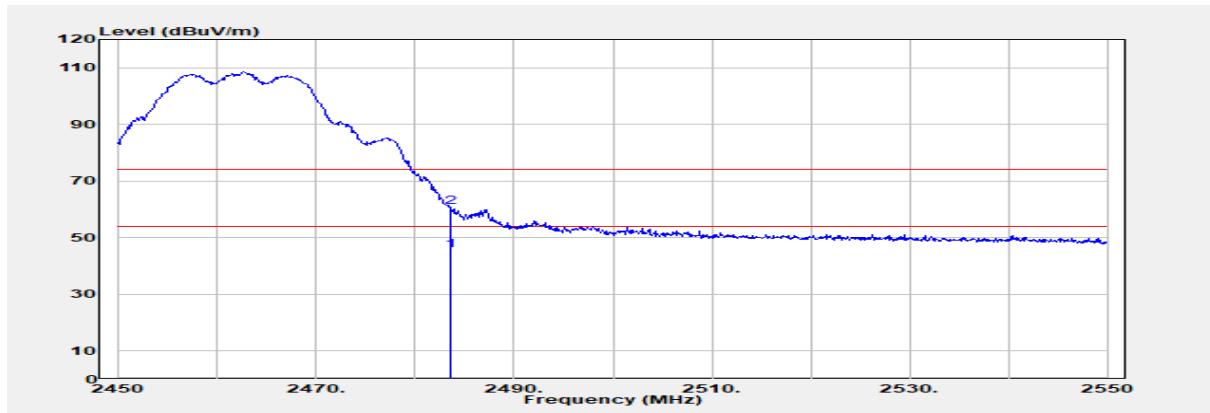
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Report Number :ER/2021/C0064
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-01-20
 Temp./Humi. :21.5/65
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
				FS dB μ V/m	dB μ V/m	dB
2483.500	Average	49.40	-3.92	45.48	54.00	-8.52
2483.500	Peak	64.87	-3.92	60.95	74.00	-13.05

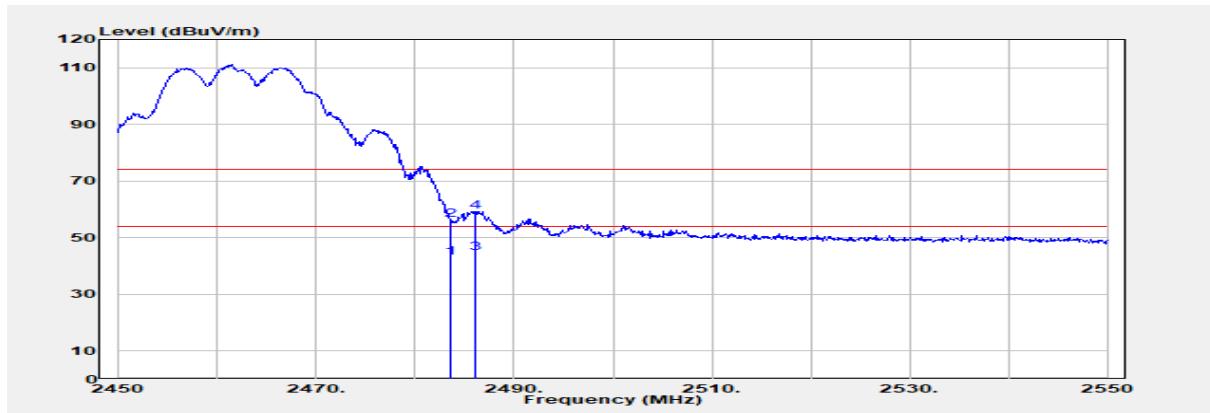
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Report Number :ER/2021/C0064
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :BE CH 11
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-20
Temp./Humi. :21.5/65
Antenna Pol. :Horizontal
Engineer :Quentin Liu



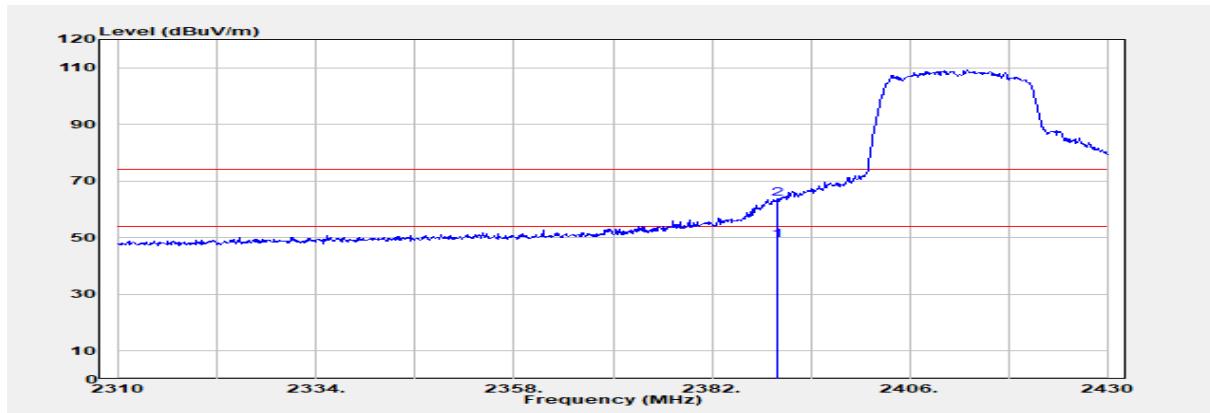
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2483.500	Average	46.97	-3.92	43.05	54.00	54.00	-10.95
2483.500	Peak	60.27	-3.92	56.35	74.00	74.00	-17.65
2486.000	Average	48.47	-3.90	44.56	54.00	54.00	-9.44
2486.000	Peak	63.21	-3.90	59.31	74.00	74.00	-14.69

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11ac20 Test Date :2022-01-20
 Test Frequency :2412 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 1 Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Quentin Liu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS dB μ V/m	Margin dB		
2390.000	Average	52.84	-3.80	49.04	54.00	54.00	-4.96
2390.000	Peak	67.43	-3.80	63.63	74.00	74.00	-10.37

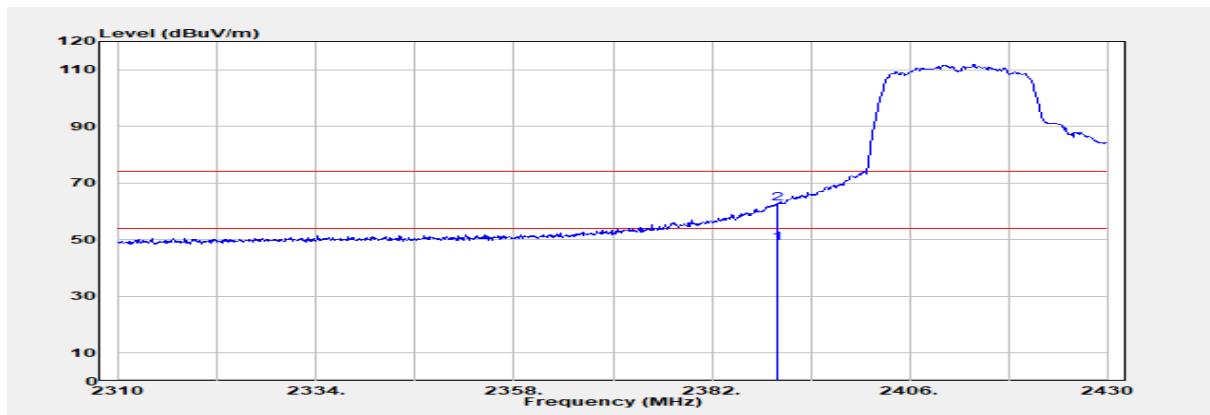
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Report Number :ER/2021/C0064
 Operation Mode :802.11ac20
 Test Frequency :2412 MHz
 Test Mode :BE CH 1
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-01-20
 Temp./Humi. :21.5/65
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2390.000	Average	52.56	-3.80	48.76	54.00	54.00	-5.24
2390.000	Peak	66.42	-3.80	62.62	74.00	74.00	-11.38

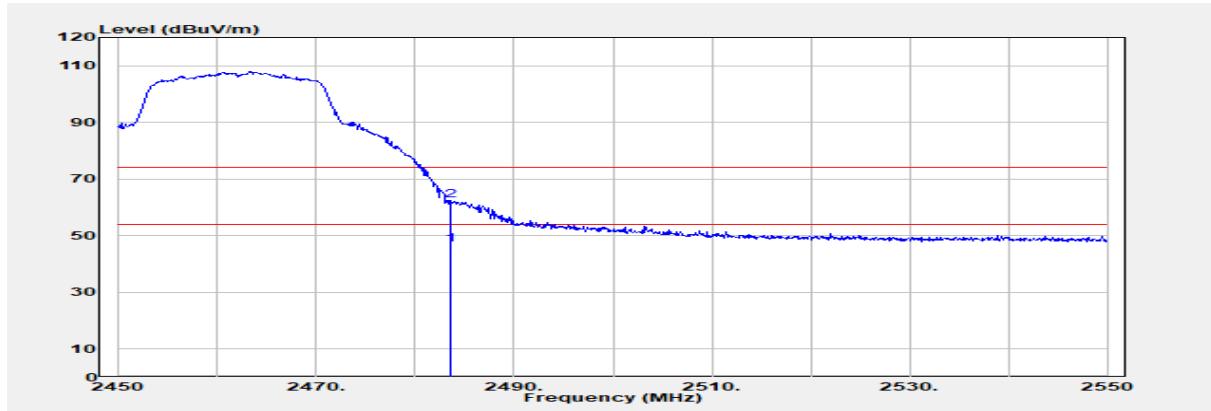
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Report Number :ER/2021/C0064
 Operation Mode :802.11ac20
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-01-20
 Temp./Humi. :21.5/65
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS dB μ V/m	@3m dB μ V/m		
2483.500	Average	50.84	-3.92	46.92	54.00	54.00	-7.08
2483.500	Peak	66.28	-3.92	62.36	74.00	74.00	-11.64

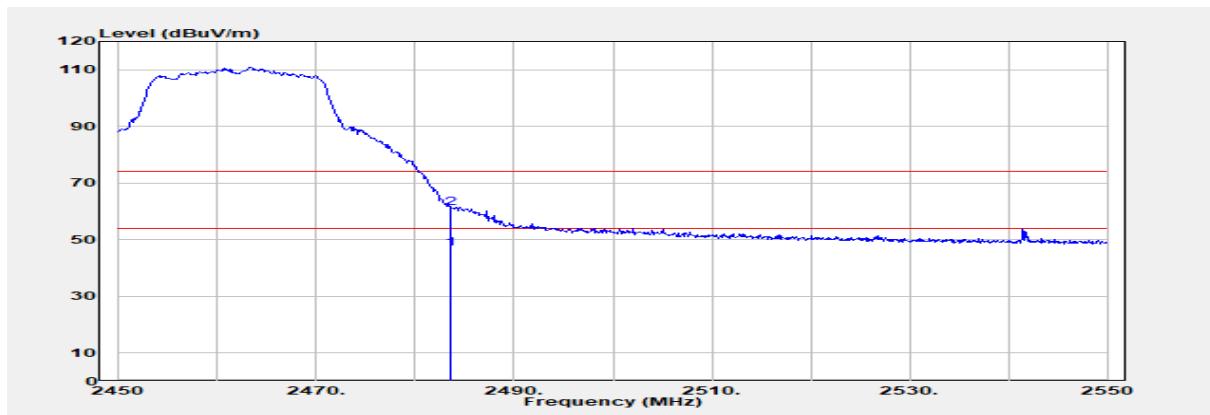
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Report Number :ER/2021/C0064
Operation Mode :802.11ac20
Test Frequency :2462 MHz
Test Mode :BE CH 11
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-01-20
Temp./Humi. :21.5/65
Antenna Pol. :Horizontal
Engineer :Quentin Liu



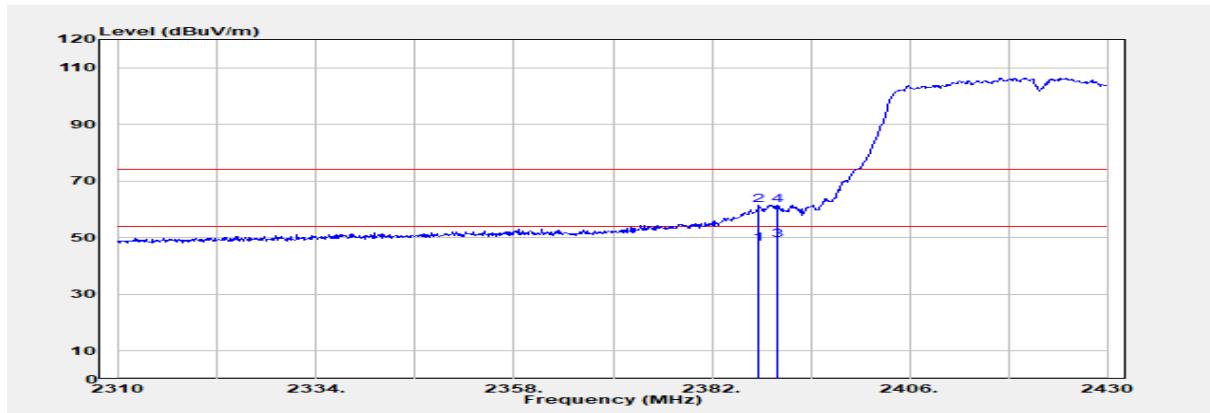
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2483.500	Average	50.88	-3.92	46.96	54.00	54.00	-7.04
2483.500	Peak	65.21	-3.92	61.29	74.00	74.00	-12.71

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ac40 Test Date :2022-01-20
Test Frequency :2422 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 3 Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jason Yeh



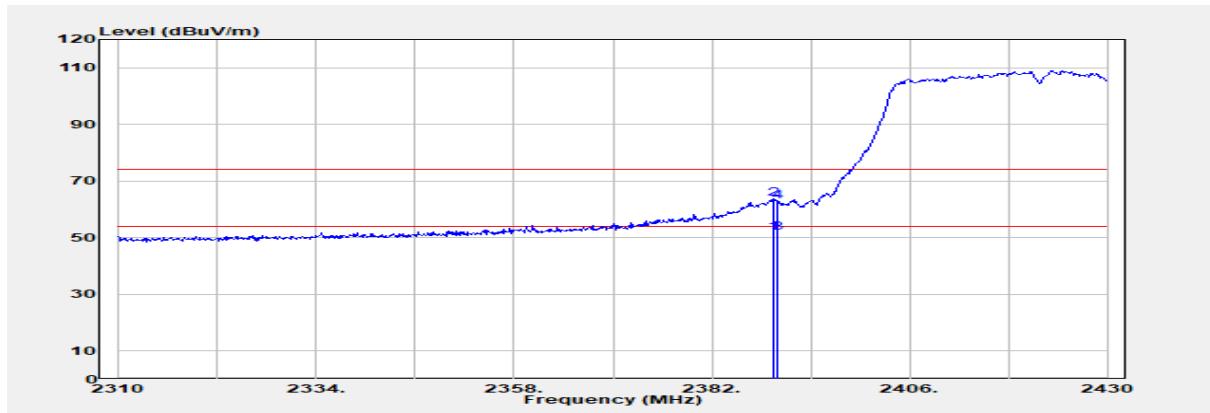
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2387.760	Average	51.63	-3.79	47.84	54.00	54.00	-6.16
2387.760	Peak	65.40	-3.79	61.61	74.00	74.00	-12.39
2390.000	Average	52.77	-3.80	48.97	54.00	54.00	-5.03
2390.000	Peak	65.37	-3.80	61.57	74.00	74.00	-12.43

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11ac40 Test Date :2022-01-20
 Test Frequency :2422 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 3 Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jason Yeh



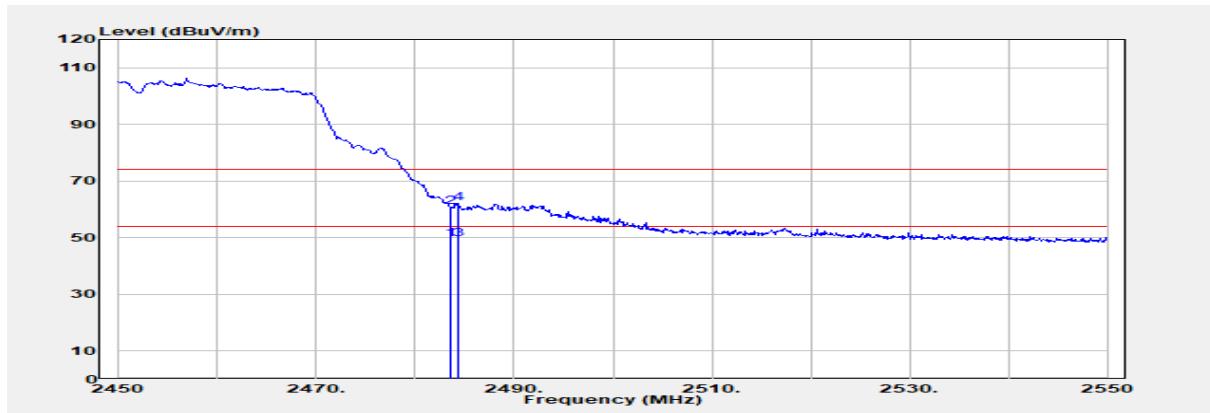
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2389.560	Average	55.42	-3.80	51.62	54.00	54.00	-2.38
2389.560	Peak	67.69	-3.80	63.90	74.00	74.00	-10.10
2390.000	Average	55.66	-3.80	51.86	54.00	54.00	-2.14
2390.000	Peak	66.59	-3.80	62.79	74.00	74.00	-11.21

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ac40 Test Date :2022-01-20
Test Frequency :2452 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 9 Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Jason Yeh



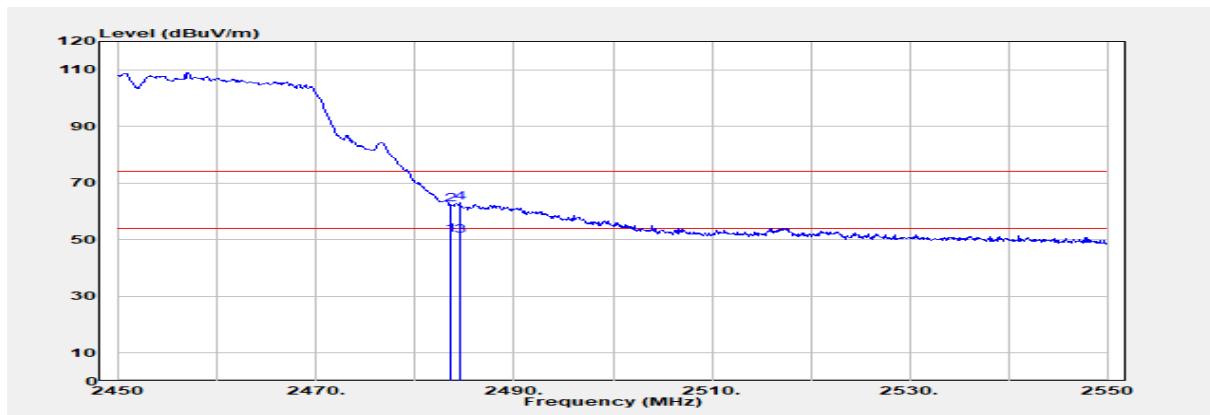
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual	Limit	Margin
				FS	@3m	dB
2483.500	Average	53.25	-3.92	49.33	54.00	-4.67
2483.500	Peak	64.74	-3.92	60.82	74.00	-13.18
2484.300	Average	53.35	-3.91	49.44	54.00	-4.56
2484.300	Peak	65.99	-3.91	62.08	74.00	-11.92

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ac40 Test Date :2022-01-20
Test Frequency :2452 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 9 Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Jason Yeh



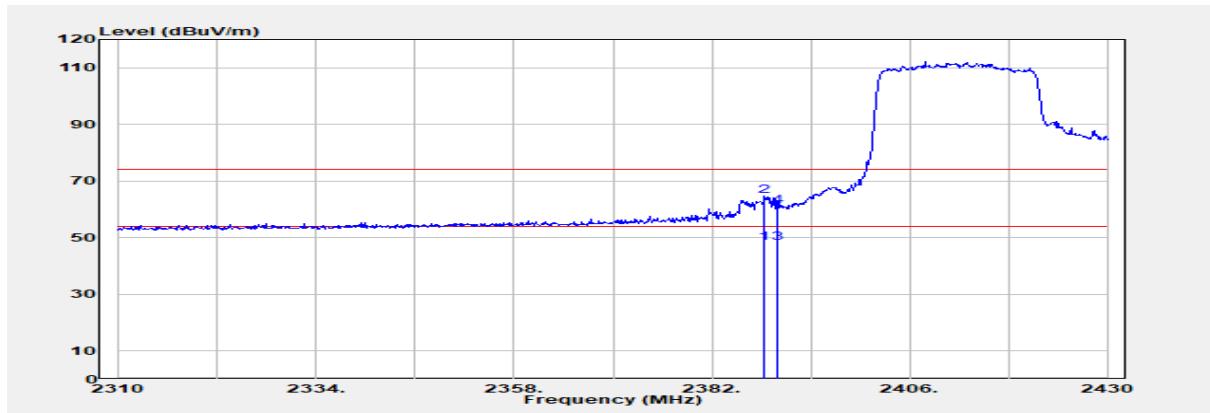
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2483.500	Average	55.69	-3.92	51.77	54.00	54.00	-2.23
2483.500	Peak	66.35	-3.92	62.43	74.00	74.00	-11.57
2484.500	Average	55.44	-3.91	51.53	54.00	54.00	-2.47
2484.500	Peak	66.94	-3.91	63.03	74.00	74.00	-10.97

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11ax20 Test Date :2022-01-20
 Test Frequency :2412 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 1 RU FULL Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jason Yeh



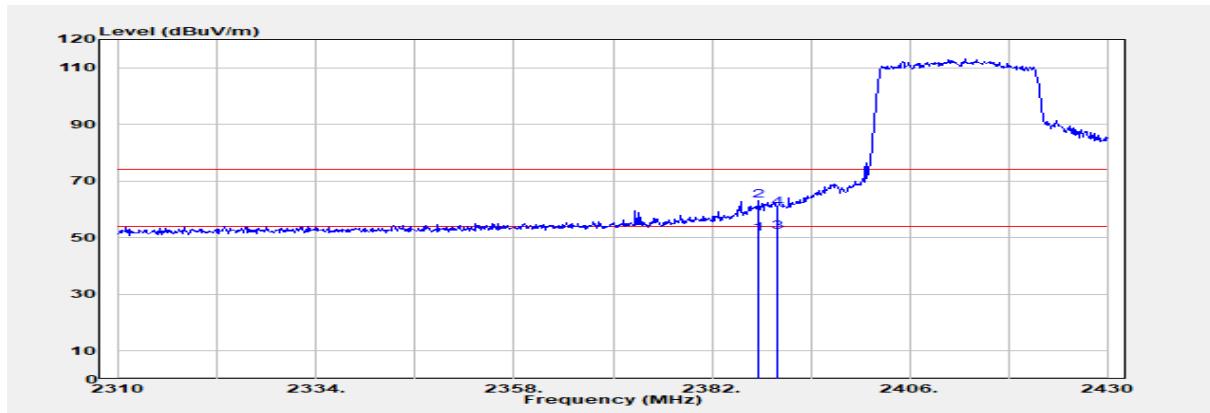
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2388.360	Average	51.85	-3.79	48.06	54.00	54.00	-5.94
2388.360	Peak	68.37	-3.79	64.58	74.00	74.00	-9.42
2390.000	Average	52.05	-3.80	48.25	54.00	54.00	-5.75
2390.000	Peak	64.83	-3.80	61.03	74.00	74.00	-12.97

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11ax20 Test Date :2022-01-20
 Test Frequency :2412 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 1 RU FULL Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jason Yeh



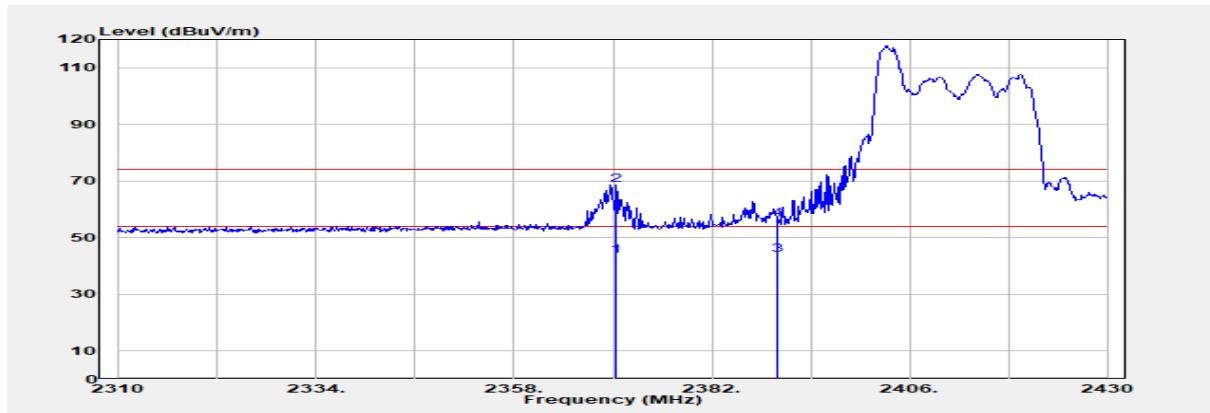
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2387.760	Average	55.18	-3.79	51.39	54.00	54.00	-2.61
2387.760	Peak	66.99	-3.79	63.20	74.00	74.00	-10.80
2390.000	Average	55.79	-3.80	51.99	54.00	54.00	-2.01
2390.000	Peak	64.41	-3.80	60.61	74.00	74.00	-13.39

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11ax20 Test Date :2022-01-20
 Test Frequency :2412 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 1 RU 26/0 Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jason Yeh



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2370.360	Average	47.36	-3.68	43.67	54.00	54.00	-10.33
2370.360	Peak	72.44	-3.68	68.76	74.00	74.00	-5.24
2390.000	Average	47.60	-3.80	43.80	54.00	54.00	-10.20
2390.000	Peak	60.37	-3.80	56.57	74.00	74.00	-17.43

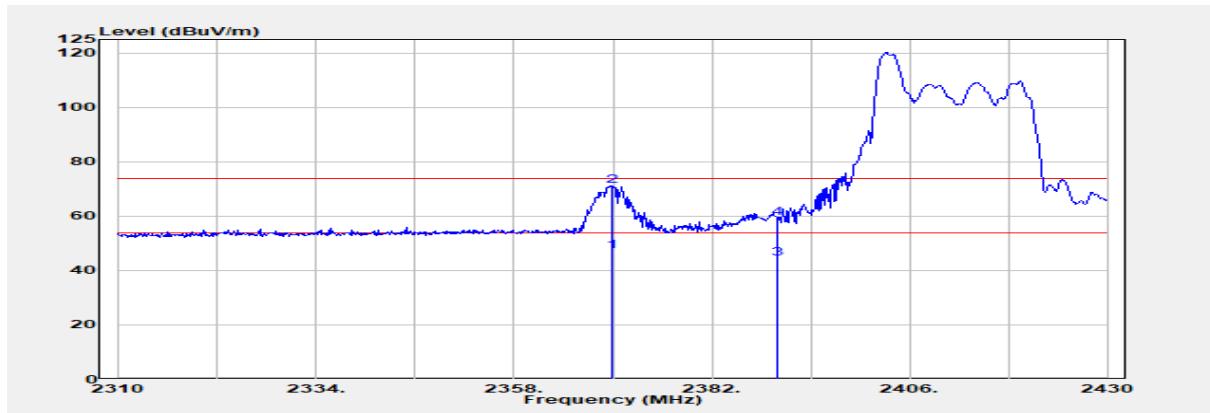
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :ER/2021/C0064
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 :2022-01-20
Temp./Humi. :21.5/65
Antenna Pol. :Horizontal
Engineer :Jason Yeh



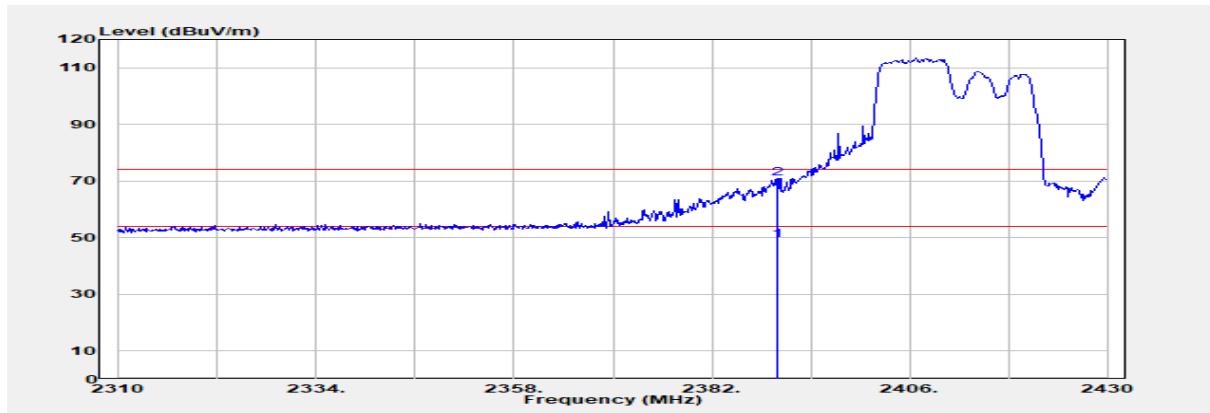
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Limit @3m dBuV/m	Margin dB
				PK/QP/AV	FS dBuV/m		
2369.880	Average	50.66	-3.68	46.98	54.00	54.00	-7.02
2369.880	Peak	74.73	-3.68	71.05	74.00	74.00	-2.95
2390.000	Average	48.34	-3.80	44.54	54.00	54.00	-9.46
2390.000	Peak	63.02	-3.80	59.22	74.00	74.00	-14.78

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11ax20 Test Date :2022-01-20
 Test Frequency :2412 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 1 RU 106/53 Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Jason Yeh



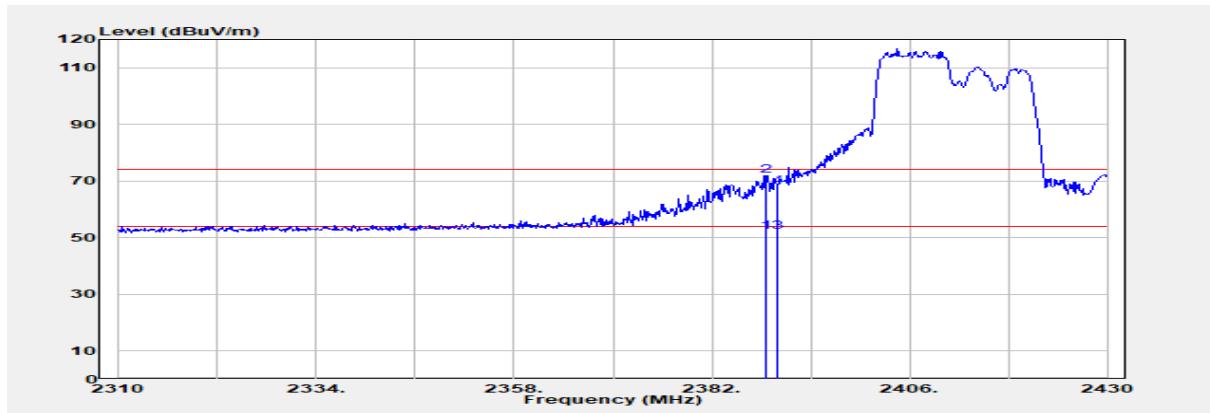
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB		
				FS dB μ V/m					
				FS dB μ V/m	Margin dB				
2390.000	Average	52.85	-3.80	49.05	54.00	54.00	-4.95		
2390.000	Peak	74.82	-3.80	71.02	74.00	74.00	-2.98		

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11ax20 Test Date :2022-01-20
 Test Frequency :2412 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 1 RU 106/53 Antenna Pol. :Horizontal
 EUT Pol :NB Plane Engineer :Jason Yeh



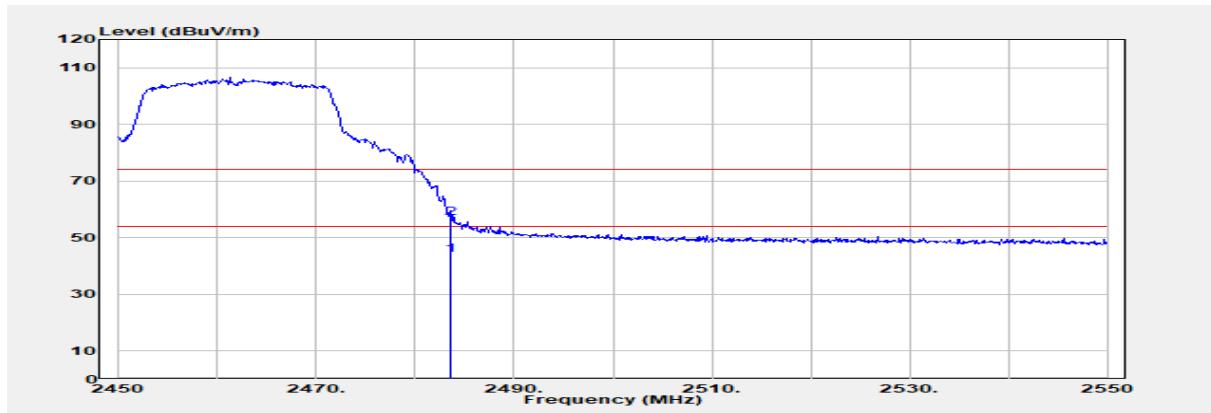
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dBuV/m		
2388.600	Average	55.75	-3.79	51.96	54.00	54.00	-2.04
2388.600	Peak	75.69	-3.79	71.89	74.00	74.00	-2.11
2390.000	Average	55.70	-3.80	51.90	54.00	54.00	-2.10
2390.000	Peak	71.91	-3.80	68.11	74.00	74.00	-5.89

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ax20 Test Date :2022-01-20
Test Frequency :2462 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 11 RU FULL Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Quentin Liu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	47.83	-3.92	43.91	54.00	-10.09
2483.500	Peak	60.70	-3.92	56.78	74.00	-17.22

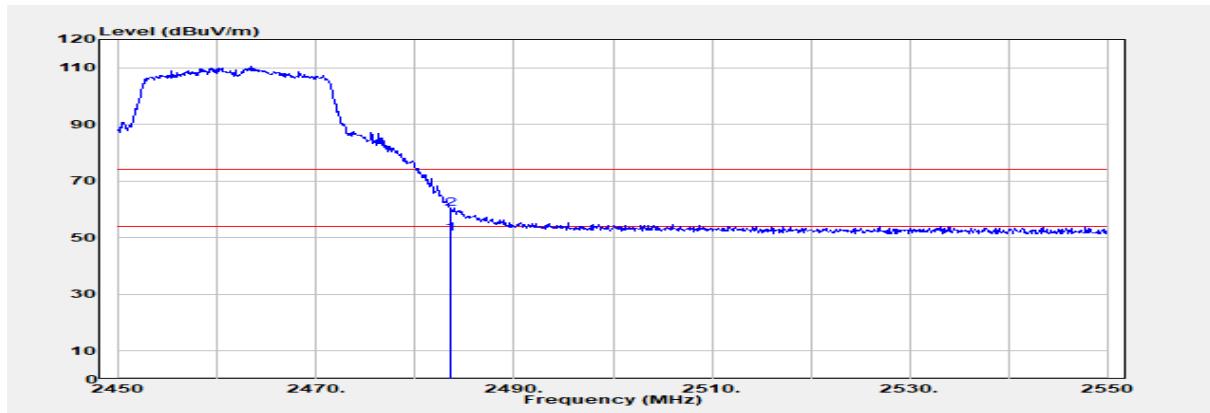
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Report Number :ER/2021/C0064
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH 11 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-01-20
 Temp./Humi. :21.5/65
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



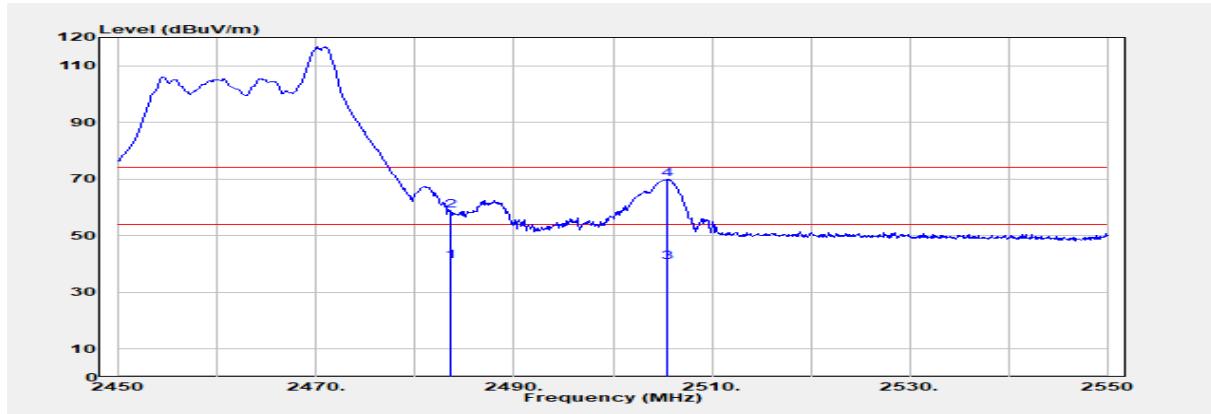
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2483.500	Average	55.15	-3.92	51.24	54.00	54.00	-2.76
2483.500	Peak	64.09	-3.92	60.17	74.00	74.00	-13.83

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Report Number :ER/2021/C0064 Test Site :SAC G
 Operation Mode :802.11ax20 Test Date :2022-01-20
 Test Frequency :2462 MHz Temp./Humi. :21.5/65
 Test Mode :BE CH 11 RU 26/8 Antenna Pol. :Vertical
 EUT Pol :NB Plane Engineer :Quentin Liu



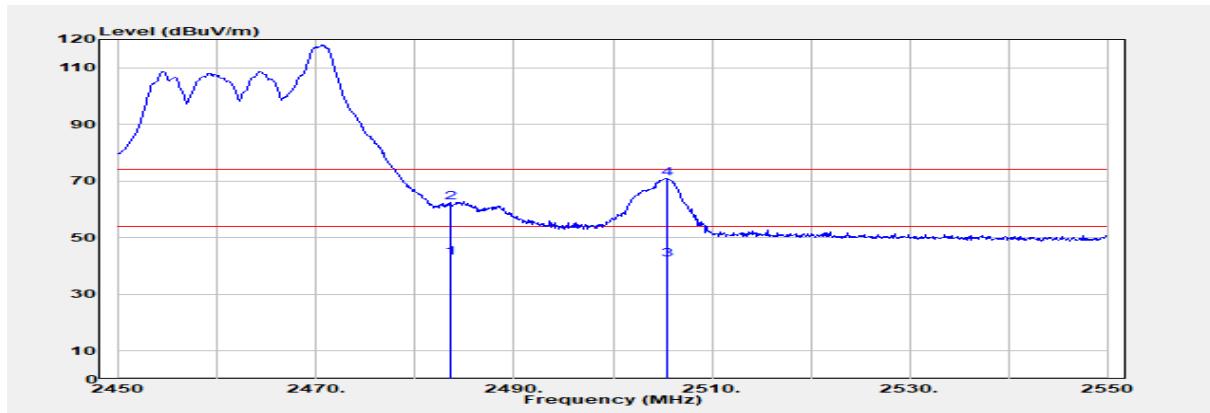
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
				FS dB μ V/m	dB μ V/m	dB
2483.500	Average	45.01	-3.92	41.09	54.00	-12.91
2483.500	Peak	62.70	-3.92	58.78	74.00	-15.22
2505.400	Average	44.73	-3.93	40.80	54.00	-13.20
2505.400	Peak	73.84	-3.93	69.91	74.00	-4.09

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ax20 Test Date :2022-01-20
Test Frequency :2462 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 11 RU 26/8 Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Quentin Liu



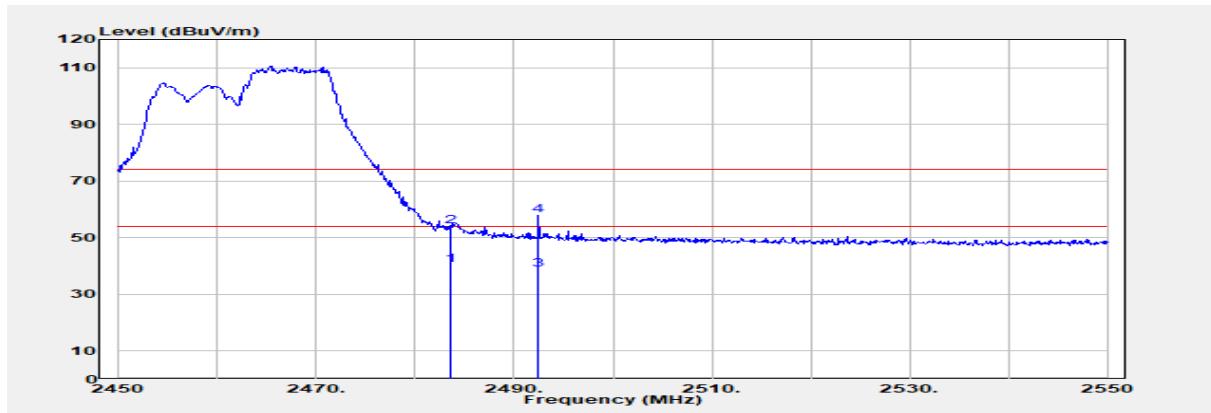
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2483.500	Average	46.69	-3.92	42.77	54.00	54.00	-11.23
2483.500	Peak	66.36	-3.92	62.44	74.00	74.00	-11.56
2505.500	Average	46.11	-3.93	42.18	54.00	54.00	-11.82
2505.500	Peak	74.90	-3.93	70.97	74.00	74.00	-3.03

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ax20 Test Date :2022-01-20
Test Frequency :2462 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 11 RU 106/54 Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Quentin Liu



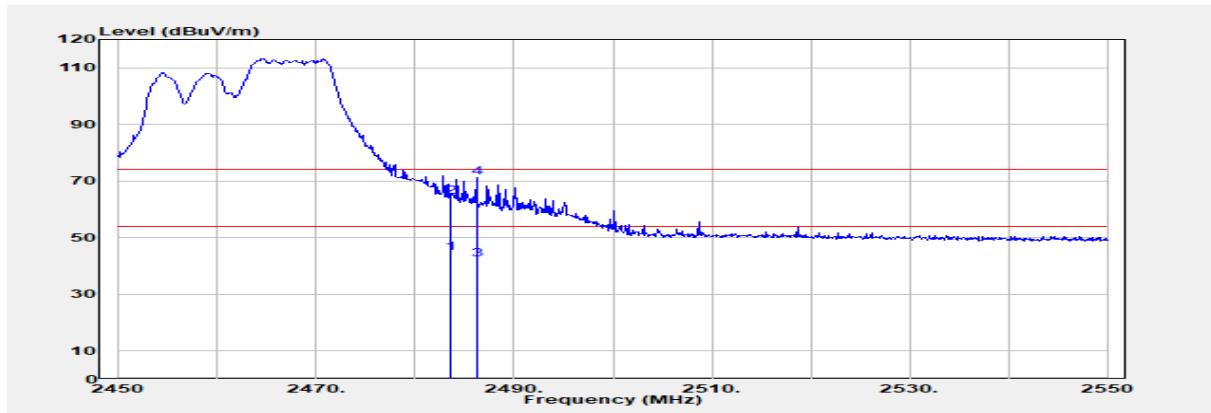
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin dB
				FS dB μ V/m	dB μ V/m	
2483.500	Average	44.28	-3.92	40.37	54.00	-13.63
2483.500	Peak	57.82	-3.92	53.90	74.00	-20.10
2492.500	Average	42.58	-3.87	38.71	54.00	-15.29
2492.500	Peak	61.71	-3.87	57.84	74.00	-16.16

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ax20 Test Date :2022-01-20
Test Frequency :2462 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 11 RU 106/54 Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Quentin Liu



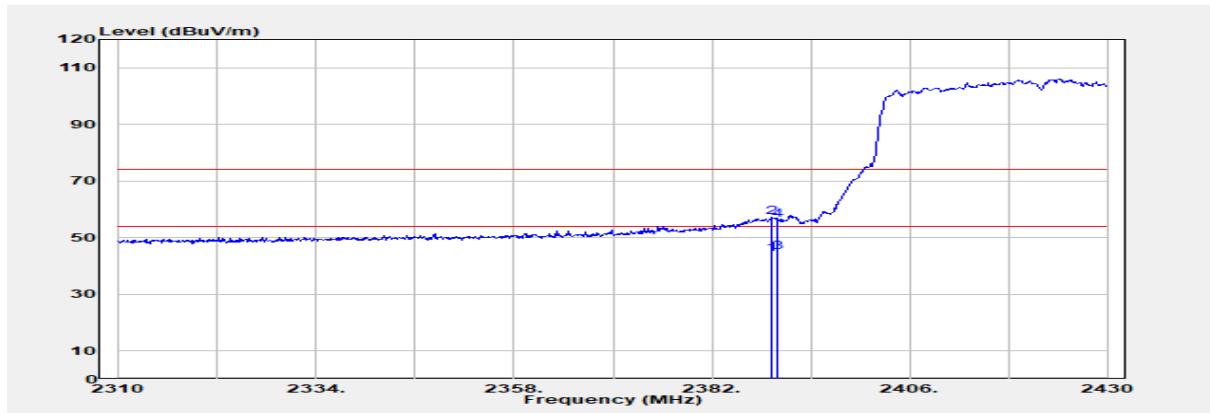
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Margin dB
				FS	@3m	
2483.500	Average	48.40	-3.92	44.48	54.00	-9.52
2483.500	Peak	68.26	-3.92	64.34	74.00	-9.66
2486.200	Average	46.06	-3.90	42.16	54.00	-11.84
2486.200	Peak	75.19	-3.90	71.29	74.00	-2.71

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ax40 Test Date :2022-01-20
Test Frequency :2422 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 3 RU FULL Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Quentin Liu



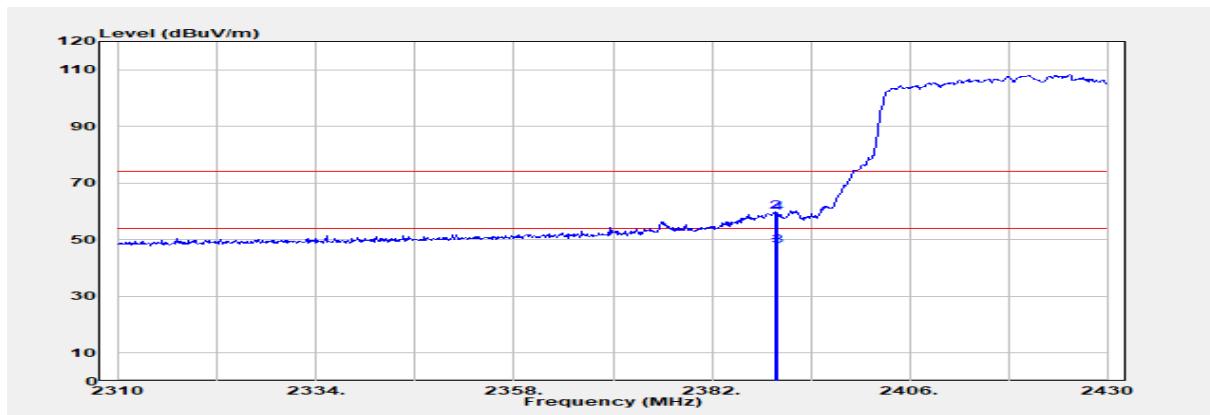
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
				FS dB μ V/m	dB μ V/m	dB
2389.320	Average	48.15	-3.80	44.36	54.00	-9.64
2389.320	Peak	60.99	-3.80	57.19	74.00	-16.81
2390.000	Average	48.78	-3.80	44.98	54.00	-9.02
2390.000	Peak	60.09	-3.80	56.29	74.00	-17.71

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ax40 Test Date :2022-01-20
Test Frequency :2422 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 3 RU FULL Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Quentin Liu



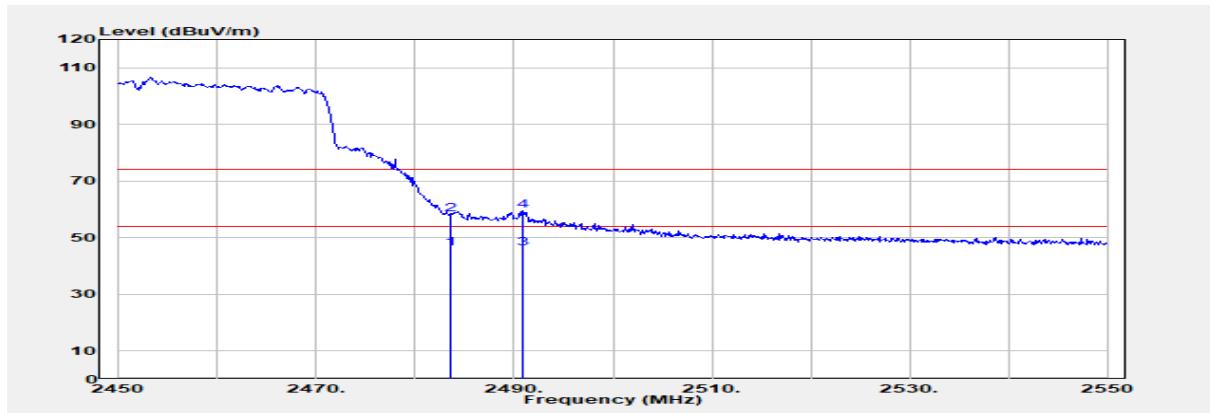
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2389.680	Average	51.09	-3.80	47.29	54.00	54.00	-6.71
2389.680	Peak	63.54	-3.80	59.74	74.00	74.00	-14.26
2390.000	Average	51.53	-3.80	47.73	54.00	54.00	-6.27
2390.000	Peak	63.18	-3.80	59.38	74.00	74.00	-14.62

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ax40 Test Date :2022-01-20
Test Frequency :2452 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 9 RU FULL Antenna Pol. :Vertical
EUT Pol :NB Plane Engineer :Quentin Liu



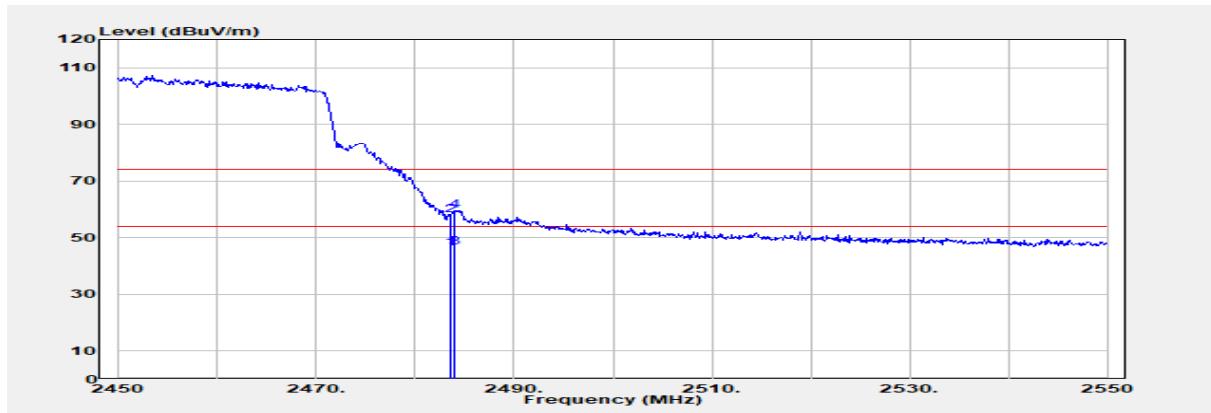
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	50.10	-3.92	46.18	54.00	-7.82
2483.500	Peak	62.24	-3.92	58.32	74.00	-15.68
2490.900	Average	50.16	-3.88	46.28	54.00	-7.72
2490.900	Peak	63.44	-3.88	59.56	74.00	-14.44

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Report Number :ER/2021/C0064 Test Site :SAC G
Operation Mode :802.11ax40 Test Date :2022-01-20
Test Frequency :2452 MHz Temp./Humi. :21.5/65
Test Mode :BE CH 9 RU FULL Antenna Pol. :Horizontal
EUT Pol :NB Plane Engineer :Quentin Liu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
				FS dB μ V/m	dB μ V/m	dB
2483.500	Average	49.98	-3.92	46.06	54.00	-7.94
2483.500	Peak	61.64	-3.92	57.73	74.00	-16.27
2484.000	Average	50.34	-3.92	46.42	54.00	-7.58
2484.000	Peak	63.56	-3.92	59.65	74.00	-14.35

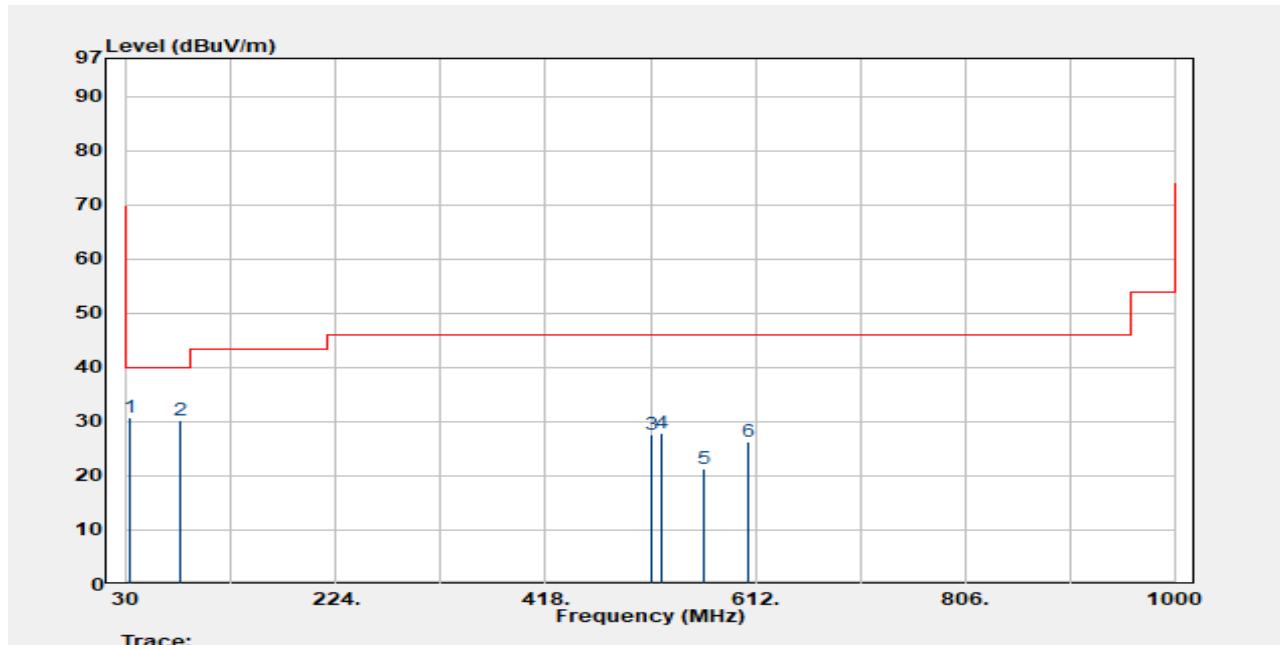
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7.7.2 Worst-Case Emission:

Report Number	:ER/2021/C0064	Test Site	:SAC 3
Operation Mode	:802.11b	Test Date	:2022-01-04
Test Frequency	:2437 MHz	Temp./Humi.	:21.9/63
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
32.910	QP	39.41	-8.65	30.76	40.00	-9.24
79.470	Peak	42.18	-11.87	30.31	40.00	-9.69
515.970	QP	29.45	-1.80	27.65	46.00	-18.35
525.670	QP	29.34	-1.42	27.92	46.00	-18.08
564.470	QP	23.12	-1.75	21.37	46.00	-24.63
606.180	QP	25.61	0.59	26.20	46.00	-19.80

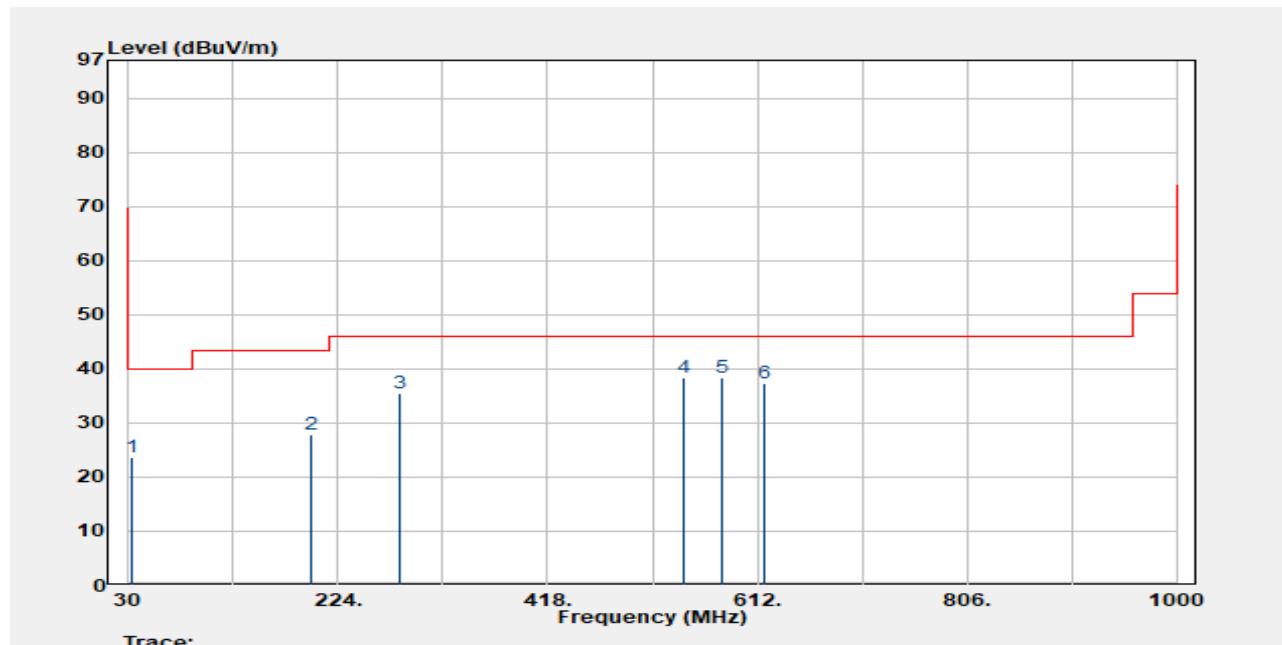
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Report Number :ER/2021/C0064
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2022-01-04
 Temp./Humi. :21.9/63
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
33.880	Peak	32.80	-9.05	23.75	40.00	-16.25
199.750	Peak	37.17	-9.43	27.74	43.50	-15.76
280.260	Peak	41.85	-6.23	35.62	46.00	-10.38
544.100	Peak	39.73	-1.36	38.37	46.00	-7.63
579.020	Peak	40.03	-1.55	38.48	46.00	-7.52
617.820	Peak	36.25	1.08	37.33	46.00	-8.67

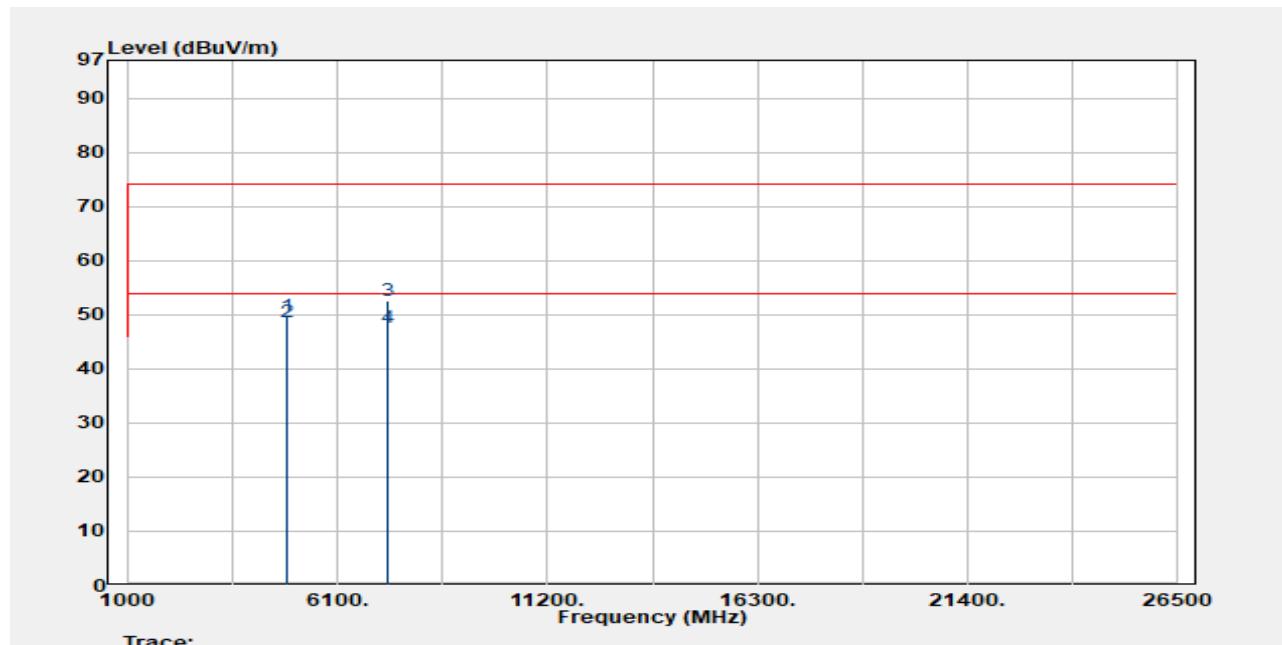
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Report Number :ER/2021/C0064
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2022-01-04
 Temp./Humi. :21.9/63
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4874.000	Peak	42.25	7.55	49.80	74.00	-24.20
4874.000	Average	41.05	7.55	48.60	54.00	-5.40
7311.000	Peak	36.93	15.71	52.63	74.00	-21.37
7311.000	Average	31.87	15.71	47.58	54.00	-6.42

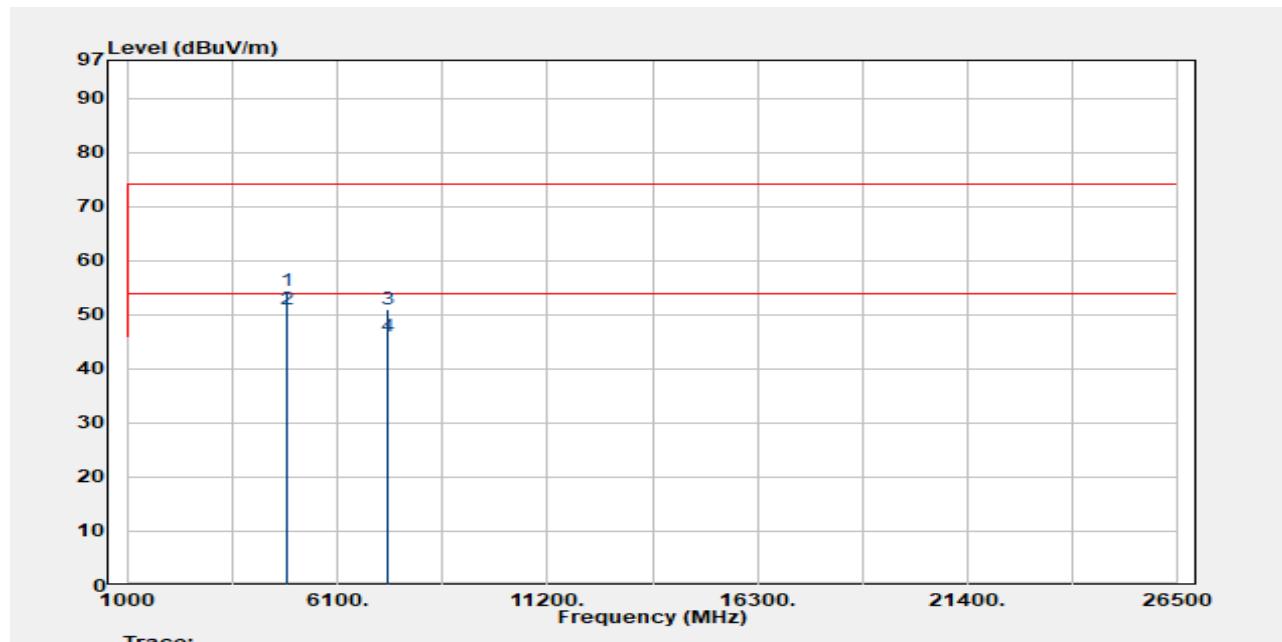
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Report Number :ER/2021/C0064
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2022-01-04
 Temp./Humi. :21.9/63
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4874.000	Peak	46.84	7.55	54.39	74.00	-19.61
4874.000	Average	43.45	7.55	51.00	54.00	-3.00
7311.000	Peak	35.27	15.71	50.97	74.00	-23.03
7311.000	Average	30.42	15.71	46.13	54.00	-7.87

~ End of Report ~

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