

ELECTROMAGNETIC EMISSIONS COMPLIANCE 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: TERF2204000204E2

FCC ID RAS-MT7922A22M

IC: 7542A-MT7922A22M

Date of EUT Received: Apr. 12, 2022

Date of Test: Apr. 18, 2022~May 23, 2022

Issue Date: May 30, 2022

Approved By _____

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
TERF2204000204E2	00	Original.	May 30, 2022	Yami Kuo	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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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:	N22Q14
Model No. of IC Host:	TMP414-41,TMP414RN-41,TMP414P-41,TMP414A-41,TMP414RNA-41
Model Difference:	For marketing purpose
Power Supply:	15.4Vdc from Rechargeable Li-ion Battery or 19Vdc from AC/DC Adapter

1.2 RF Specification

NB

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2462	11	27.19	DSSS
802.11g	2412~2462	11	28.74	OFDM
802.11ac20	2412~2462	11	27.94	OFDM
802.11ac40	2422~2452	7	25.65	OFDM
802.11ax20	2412~2462	11	29.75	OFDMA
802.11ax40	2422~2452	7	26.86	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS		
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM		
		1024 QAM, 256 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 ax_20MHz: up to 286.8Mbps		
		802.11 ax_40MHz: up to 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	27.19	20.77	DSSS
802.11g	2412~2462	11	28.74	20.81	OFDM
802.11ac20	2412~2462	11	27.94	17.82	OFDM
802.11ac40	2422~2452	7	25.65	17.95	OFDM
802.11ax20	2412~2462	11	29.75	20.96	OFDMA
802.11ax40	2422~2452	7	26.86	20.79	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM			
		1024 QAM, 256 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 ax_20MHz:up to 286.8Mbps			
		802.11 ax_40MHz:up to 573.6Mbps			

TB

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2462	11	27.19	DSSS
802.11g	2412~2462	11	28.74	OFDM
802.11ac20	2412~2462	11	27.94	OFDM
802.11ac40	2422~2452	7	25.65	OFDM
802.11ax20	2412~2462	11	29.75	OFDMA
802.11ax40	2422~2452	7	26.86	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS		
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM		
		1024 QAM, 256 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 ax_20MHz:up to 286.8Mbps		
		802.11 ax_40MHz:up to 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	27.19	20.77	DSSS
802.11g	2412~2462	11	28.74	20.81	OFDM
802.11ac20	2412~2462	11	27.94	17.82	OFDM
802.11ac40	2422~2452	7	25.65	17.95	OFDM
802.11ax20	2412~2462	11	29.75	20.96	OFDMA
802.11ax40	2422~2452	7	26.86	20.79	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM			
		1024 QAM, 256 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 ax_20MHz:up to 286.8Mbps			
		802.11 ax_40MHz:up to 573.6Mbps			

1.3 Antenna Designation

Antenna Type	Supplier	NB / TB mode	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain (dBi)
PIFA	WNC	NB	Main	81EABS15.G80	2412-2472	1.56	4.6
			Aux			1.62	4.6
		TB	Main			2.80	4.85
			Aux			0.75	4.85

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 15.247 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		
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 Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 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.

2.3.3 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.

2.5 Test Configuration

Conducted Setup	Radiated Setup
	

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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 Operatin Frequencies

Modulation of 20MHz nominal bandwidth

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

Modulation of 40MHz nominal bandwidth

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. Test 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 gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				Multiple Transmission Spatial
☒ 802.11 b	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ 2TX
☒ 802.11 g	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ 2TX
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO
☒ 802.11 ax	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ 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.
5. Observations have been done for 802.11 ax available RU configurations below and found that the lowest, highest and Full RU results higher emissions.
Only one RU can be enabled at any given time.

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802.11ax		20MHz				802.11ax		40MHz			
RU type		26-tone RU		52-tone RU		RU type		26-tone RU		52-tone RU	
RU index and subcarrier range	RU0	[-121: -96]	RU37	[-121: -70]			RU0	[-243: -218]	RU37	[-243: -192]	
	RU1	[-95: -70]	RU38	[-68: -17]			RU1	[-217: -192]	RU38	[-189: -138]	
	RU2	[-68: -43]	RU39	[17: 68]			RU2	[-189: -164]	RU39	[-109: -58]	
	RU3	[-42: -17]	RU40	[70: 121]			RU3	[-163: -138]	RU40	[-55: -4]	
	RU4	[-16: -4, 4: 16]	RU41	N/A			RU4	[-136: -111]	RU41	[4: 55]	
	RU5	[17: 42]	RU42	N/A			RU5	[-109: -84]	RU42	[58: 109]	
	RU6	[43: 68]	RU43	N/A			RU6	[-83: -58]	RU43	[138: 189]	
	RU7	[70: 95]	RU44	N/A			RU7	[-55: -30]	RU44	[192: 243]	
	RU8	[96: 121]	RU45	N/A			RU8	[-29: -4]	RU45	N/A	
	RU9	N/A	RU46	N/A			RU9	[4: 29]	RU46	N/A	
	RU10	N/A	RU47	N/A			RU10	[30: 55]	RU47	N/A	
	RU11	N/A	RU48	N/A			RU11	[58: 83]	RU48	N/A	
	RU12	N/A	RU49	N/A			RU12	[84: 109]	RU49	N/A	
	RU13	N/A	RU50	N/A			RU13	[111: 136]	RU50	N/A	
	RU14	N/A	RU51	N/A			RU14	[138: 163]	RU51	N/A	
	RU15	N/A	RU52	N/A			RU15	[164: 189]	RU52	N/A	
	RU16	N/A					RU16	[192: 217]			
	RU17	N/A	106-tone RU				RU17	[218: 243]	106-tone RU		
	RU18	N/A	RU53	[-122: -17]			RU18	N/A	RU53	[-243: -138]	
	RU19	N/A	RU54	[17: 122]			RU19	N/A	RU54	[-109: -4]	
	RU20	N/A	RU55	N/A			RU20	N/A	RU55	[4: 109]	
	RU21	N/A	RU56	N/A			RU21	N/A	RU56	[138: 243]	
	RU22	N/A	RU57	N/A			RU22	N/A	RU57	N/A	
	RU23	N/A	RU58	N/A			RU23	N/A	RU58	N/A	
	RU24	N/A	RU59	N/A			RU24	N/A	RU59	N/A	
	RU25	N/A	RU60	N/A			RU25	N/A	RU60	N/A	
	RU26	N/A					RU26	N/A			
	RU27	N/A	242-tone RU				RU27	N/A	242-tone RU		
	RU28	N/A	RU61	[-122: -2, 2: 122]			RU28	N/A	RU61	[-244: -3]	
	RU29	N/A	RU62	N/A			RU29	N/A	RU62	[3: 244]	
	RU30	N/A	RU63	N/A			RU30	N/A	RU63	N/A	
	RU31	N/A	RU64	N/A			RU31	N/A	RU64	N/A	
	RU32	N/A					RU32	N/A			
	RU33	N/A					RU33	N/A	484-tone RU		
	RU34	N/A					RU34	N/A	RU65	[-244: -3, 3: 244]	
	RU35	N/A					RU35	N/A	RU66	N/A	
RU36	N/A					RU36	N/A				

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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
802.11b	1 to 11	6	DSSS	1	2TX

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
802.11ac (VHT20)	1 to 11	1,6,11	OFDM	VHT0	MIMO
802.11ac (VHT40)	3 to 9	3,6,9	OFDM	VHT0	MIMO
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: NB

The field strength of radiation emission was measured as NB Plane for channel Low, Mid and High.

Note: TB

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/ac/ax WLAN Transmitter for channel Low, Mid and High, the worst case E1 position was reported.

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
802.11ac (VHT20)	1 to 11	1,6,11	OFDM	VHT0	MIMO
802.11ac (VHT40)	3 to 9	3,6,9	OFDM	VHT0	MIMO
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	+/-	2.57 dB	9kHz~30MHz
	+/-	4.85 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.57 dB	9kHz~30MHz
	+/-	4.37 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 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 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/01/2022	03/31/2023
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339378	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339379	07/27/2021	07/26/2022
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022
Attenuator	Marvelous	MVE2213-10	RF12	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF22	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF155	11/18/2021	11/17/2022

6.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	10/19/2021	10/18/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1187	01/06/2022	01/05/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC330	980096	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Attenuator	Marvelous	WATT-218FS-10	RF20	11/18/2021	11/17/2022
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/18/2021	11/17/2022
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

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

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

7.2 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.3 Output Power

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

$g_{j,k} = 10^{G_k/20}$ 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.

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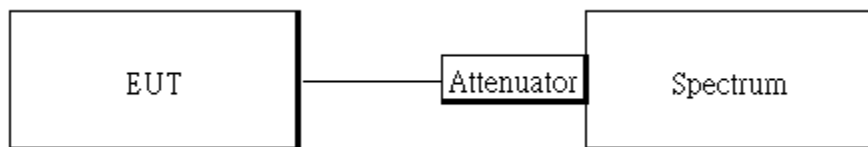
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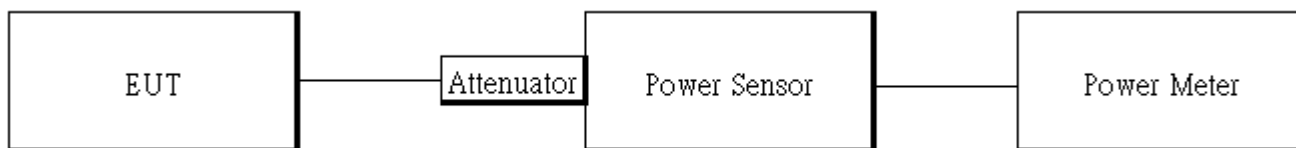
The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

7.4 Test Setup

7.4.1 Duty Cycle



7.4.2 Output Power:



7.5 Measurement Procedure

7.5.1 Duty Cycle:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

7.5.2 Output Power

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.
5. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

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

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7.6 Measurement Result

7.6.1 Duty Cycle:

NB

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.57	0.02	0.12	0.01
802.11g	97.00	0.13	0.72	1.00
802.11ac_20	82.81	0.82	4.72	5.00
802.11ac_40	83.14	0.80	4.72	5.00
802.11ax_20	82.52	0.83	4.93	5.00
802.11ax_40	87.91	0.56	3.13	4.00

TB

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.57	0.02	0.12	0.01
802.11g	97.00	0.13	0.72	1.00
802.11ac_20	82.81	0.82	4.72	5.00
802.11ac_40	83.14	0.80	4.72	5.00
802.11ax_20	82.52	0.83	4.93	5.00
802.11ax_40	87.91	0.56	3.13	4.00

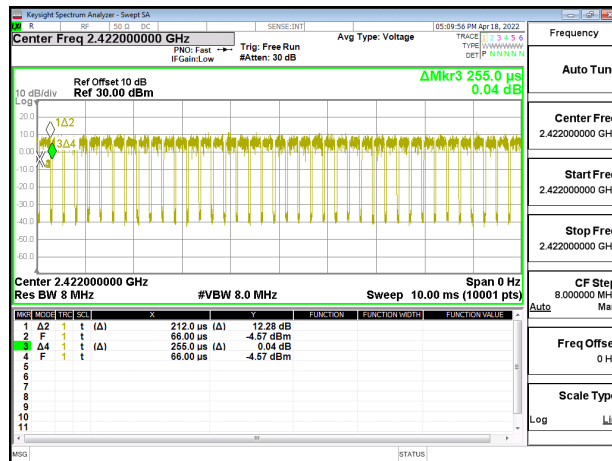
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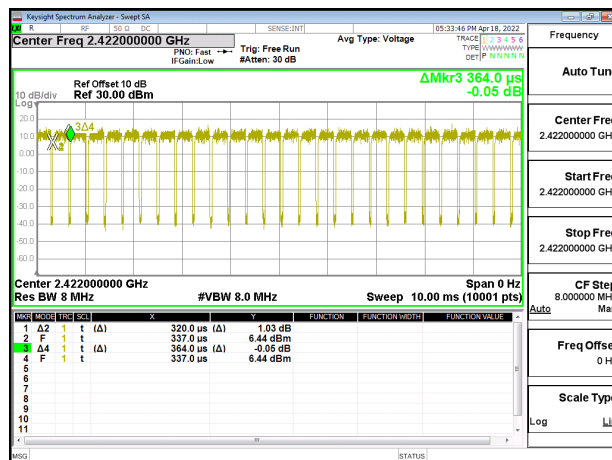
802.11ac 40MHz Chain0 2422MHz



802.11ax 20MHz Chain0 2412MHz

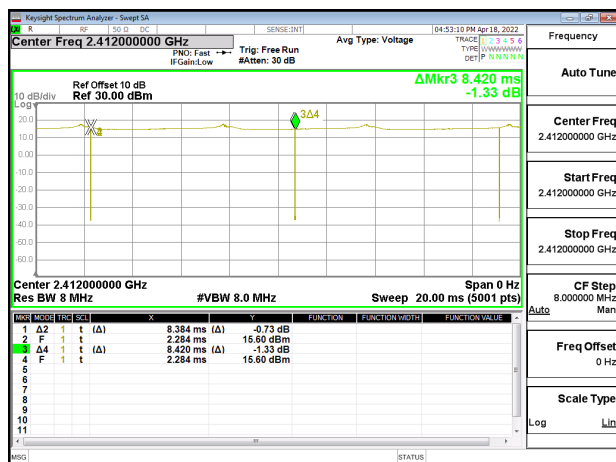


802.11ax 40MHz Chain0 2422MHz

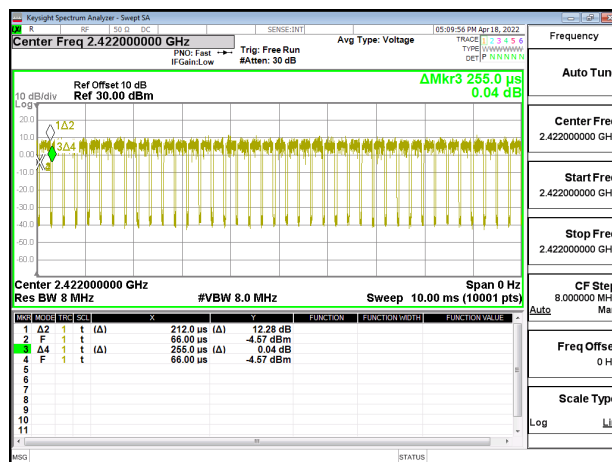


TB

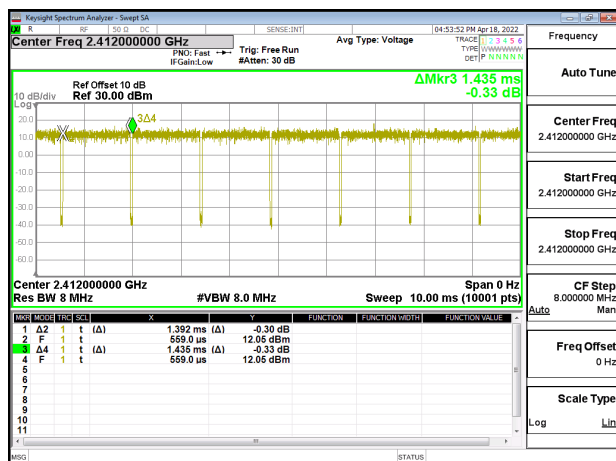
802.11b_20MHz_Chain0_2412MHz



802.11ac_40MHz_Chain0_2422MHz



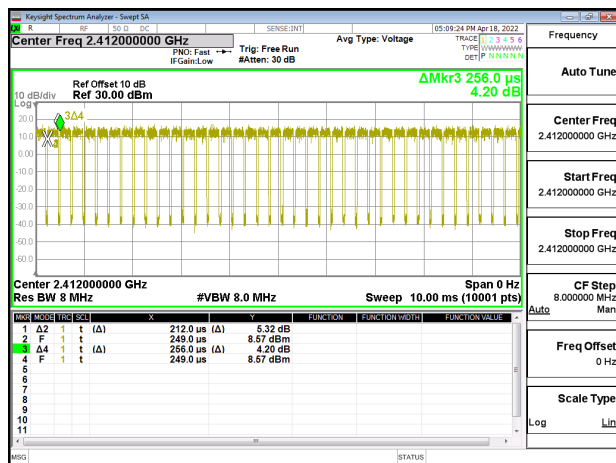
802.11g_20MHz_Chain0_2412MHz



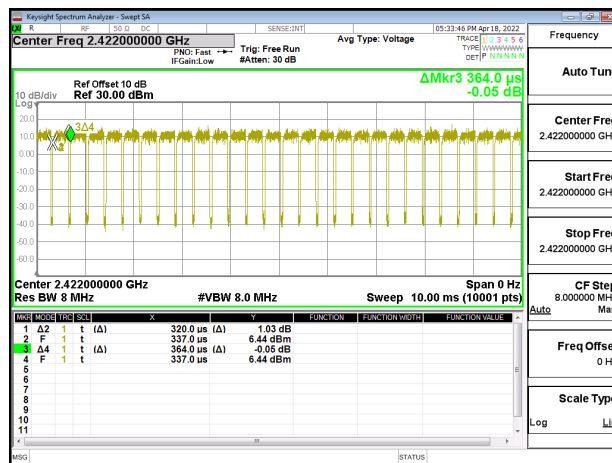
802.11ax_20MHz_Chain0_2412MHz



802.11ac_20MHz_Chain0_2412MHz



802.11ax_40MHz_Chain0_2422MHz



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7.6.3 Output Power

NB

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	11	24.42	23.93	27.19	30.00	PASS
6	2437	1	11	24.36	23.95	27.17	30.00	PASS
11	2462	1	11	22.66	22.58	25.63	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	11	15.64	14.92	18.33	30.00	PASS
6	2437	1	11	15.56	14.88	18.26	30.00	PASS
11	2462	1	11	15.38	14.96	18.21	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	12	23.93	23.53	26.74	30.00	PASS
6	2437	6	12	25.82	25.64	28.74	30.00	PASS
11	2462	6	12	23.56	23.52	26.55	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	12	15.46	14.56	18.17	30.00	PASS
6	2437	6	12	15.57	14.63	18.27	30.00	PASS
11	2462	6	12	15.37	14.67	18.17	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	23.58	23.35	26.48	30.00	PASS
6	2437	MCS0	13	25.09	24.76	27.94	30.00	PASS
11	2462	MCS0	13	22.31	22.20	25.27	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	14.82	13.82	18.18	30.00	PASS
6	2437	MCS0	13	14.76	14.01	18.23	30.00	PASS
11	2462	MCS0	13	14.67	13.99	18.17	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	12	20.26	20.18	23.23	30.00	PASS
6	2437	MCS0	12.5	22.74	22.54	25.65	30.00	PASS
9	2452	MCS0	12.5	21.11	21.02	24.08	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	12	14.02	13.71	17.68	30.00	PASS
6	2437	MCS0	12.5	14.72	13.96	18.17	30.00	PASS
9	2452	MCS0	12.5	14.76	14.01	18.21	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	12.5	23.57	23.41	26.50	30.00	PASS
			26/0	12	26.17	26.97	29.60	30.00	PASS
			106/53	12.5	26.14	27.03	29.62	30.00	PASS
6	2437	MCS0	full	13	25.13	24.71	27.94	30.00	PASS
11	2462	MCS0	full	13	22.57	22.34	25.47	30.00	PASS
			26/8	12	26.14	26.66	29.42	30.00	PASS
			106/54	12	26.02	27.01	29.55	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	12.5	15.07	13.72	18.29	30.00	PASS
			26/0	12	14.89	13.52	18.10	30.00	PASS
			106/53	12.5	14.62	13.98	18.15	30.00	PASS
6	2437	MCS0	full	13	14.97	14.03	18.37	30.00	PASS
11	2462	MCS0	full	13	14.89	14.02	18.32	30.00	PASS
			26/8	12	14.76	14.02	18.25	30.00	PASS
			106/54	12	14.97	13.86	18.29	30.00	PASS

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	21.13	24.13	25.89	30.00	PASS
6	2437	MCS0	full	13	24.05	23.63	26.86	30.00	PASS
9	2452	MCS0	full	13	20.74	20.70	23.73	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	13.85	13.42	17.21	30.00	PASS
6	2437	MCS0	full	13	15.01	14.12	18.16	30.00	PASS
9	2452	MCS0	full	13	14.99	14.36	18.26	30.00	PASS

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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	15.64	14.92	18.33	4.60	22.93	36	PASS
6	2437	1	15.56	14.88	18.26	4.60	22.86	36	PASS
11	2462	1	15.38	14.96	18.21	4.60	22.81	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	15.46	14.56	18.17	4.60	22.77	36	PASS
6	2437	6	15.57	14.63	18.27	4.60	22.87	36	PASS
11	2462	6	15.37	14.67	18.17	4.60	22.77	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	14.82	13.82	18.18	1.62	19.80	36	PASS
6	2437	MCS0	14.76	14.01	18.23	1.62	19.85	36	PASS
11	2462	MCS0	14.67	13.99	18.17	1.62	19.79	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	14.02	13.71	17.68	1.62	19.30	36	PASS
6	2437	MCS0	14.72	13.96	18.17	1.62	19.79	36	PASS
9	2452	MCS0	14.76	14.01	18.21	1.62	19.83	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	15.07	13.72	18.29	5.24	23.53	36	PASS
			26/0	14.89	13.52	18.10	5.24	23.34	36	PASS
			106/53	14.62	13.98	18.15	5.24	23.39	36	PASS
6	2437	MCS0	full	14.97	14.03	18.37	5.24	23.61	36	PASS
11	2462	MCS0	full	14.89	14.02	18.32	5.24	23.56	36	PASS
			26/8	14.76	14.02	18.25	5.24	23.49	36	PASS
			106/54	14.97	13.86	18.29	5.24	23.53	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	13.85	13.42	17.21	5.24	22.45	36	PASS
6	2437	MCS0	full	15.01	14.12	18.16	5.24	23.40	36	PASS
9	2452	MCS0	full	14.99	14.36	18.26	5.24	23.50	36	PASS

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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	9	24.42	23.93	27.19	30.00	PASS
6	2437	1	9	24.36	23.95	27.17	30.00	PASS
11	2462	1	9	22.66	22.58	25.63	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	9	13.62	13.17	16.43	30.00	PASS
6	2437	1	9	13.65	12.63	16.20	30.00	PASS
11	2462	1	9	13.55	13.06	16.34	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	10	23.93	23.53	26.74	30.00	PASS
6	2437	6	10	25.82	25.64	28.74	30.00	PASS
11	2462	6	10.5	23.56	23.52	26.55	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	10	13.43	12.62	16.18	30.00	PASS
6	2437	6	10	13.56	12.68	16.28	30.00	PASS
11	2462	6	10.5	13.52	13.08	16.45	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	10.5	23.58	23.35	26.48	30.00	PASS
6	2437	MCS0	10.5	25.09	24.76	27.94	30.00	PASS
11	2462	MCS0	10.5	22.31	22.20	25.27	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	10.5	12.59	11.89	16.08	30.00	PASS
6	2437	MCS0	10.5	12.73	11.89	16.16	30.00	PASS
11	2462	MCS0	10.5	12.76	11.94	16.20	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	10.5	20.26	20.18	23.23	30.00	PASS
6	2437	MCS0	10.5	22.74	22.54	25.65	30.00	PASS
9	2452	MCS0	10.5	21.11	21.02	24.08	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	10.5	13.17	11.95	16.41	30.00	PASS
6	2437	MCS0	10.5	13.18	11.87	16.38	30.00	PASS
9	2452	MCS0	10.5	13.02	12.06	16.38	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	10.5	23.57	23.41	26.50	30.00	PASS
			26/0	10	26.17	26.97	29.60	30.00	PASS
			106/53	10.5	26.14	27.03	29.62	30.00	PASS
6	2437	MCS0	full	11	25.13	24.71	27.94	30.00	PASS
11	2462	MCS0	full	11	22.57	22.34	25.47	30.00	PASS
			26/8	10.5	26.14	26.66	29.42	30.00	PASS
			106/54	10.5	26.02	27.01	29.55	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	10.5	13.08	11.76	16.31	30.00	PASS
			26/0	10	12.77	11.71	16.11	30.00	PASS
			106/53	10.5	12.88	11.95	16.28	30.00	PASS
6	2437	MCS0	full	11	12.76	11.94	16.21	30.00	PASS
11	2462	MCS0	full	11	12.82	12.23	16.38	30.00	PASS
			26/8	10.5	12.76	12.24	16.35	30.00	PASS
			106/54	10.5	12.76	12.24	16.35	30.00	PASS

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	10.5	21.13	24.13	25.89	30.00	PASS
6	2437	MCS0	full	10.5	24.05	23.63	26.86	30.00	PASS
9	2452	MCS0	full	12.5	20.74	20.70	23.73	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	10.5	13.01	12.21	16.20	30.00	PASS
6	2437	MCS0	full	10.5	12.88	12.18	16.11	30.00	PASS
9	2452	MCS0	full	12.5	12.79	12.36	16.15	30.00	PASS

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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	13.62	13.17	16.43	4.85	21.28	36	PASS
6	2437	1	13.65	12.63	16.20	4.85	21.05	36	PASS
11	2462	1	13.55	13.06	16.34	4.85	21.19	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	13.43	12.62	16.18	4.85	21.03	36	PASS
6	2437	6	13.56	12.68	16.28	4.85	21.13	36	PASS
11	2462	6	13.52	13.08	16.45	4.85	21.30	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	12.59	11.89	16.08	2.80	18.88	36	PASS
6	2437	MCS0	12.73	11.89	16.16	2.80	18.96	36	PASS
11	2462	MCS0	12.76	11.94	16.20	2.80	19.00	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	13.17	11.95	16.41	2.80	19.21	36	PASS
6	2437	MCS0	13.18	11.87	16.38	2.80	19.18	36	PASS
9	2452	MCS0	13.02	12.06	16.38	2.80	19.18	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	13.08	11.76	16.31	4.85	21.16	36	PASS
			26/0	12.77	11.71	16.11	4.85	20.96	36	PASS
			106/53	12.88	11.95	16.28	4.85	21.13	36	PASS
6	2437	MCS0	full	12.76	11.94	16.21	4.85	21.06	36	PASS
11	2462	MCS0	full	12.82	12.23	16.38	4.85	21.23	36	PASS
			26/8	12.76	12.24	16.35	4.85	21.20	36	PASS
			106/54	12.76	12.24	16.35	4.85	21.20	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	13.01	12.21	16.20	4.85	21.05	36	PASS
6	2437	MCS0	full	12.88	12.18	16.11	4.85	20.96	36	PASS
9	2452	MCS0	full	12.79	12.36	16.15	4.85	21.00	36	PASS

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8 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

8.1 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.

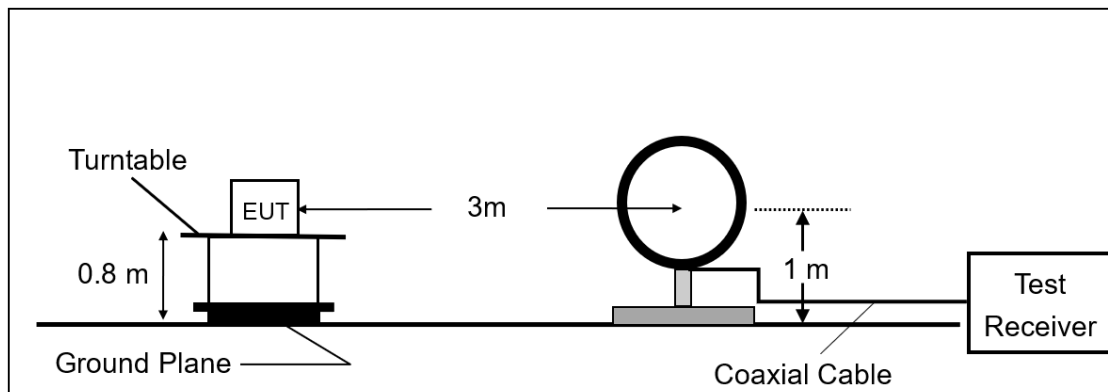
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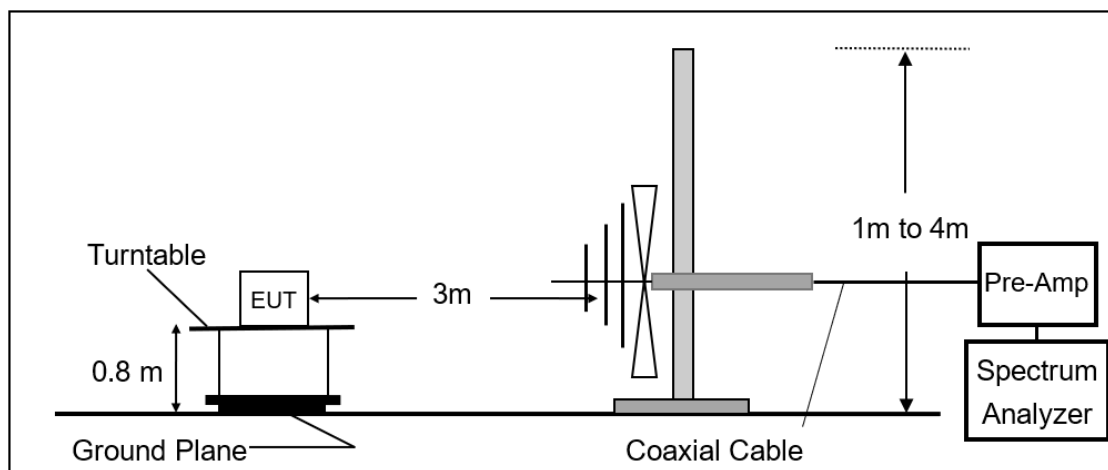
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8.2 Test Setup

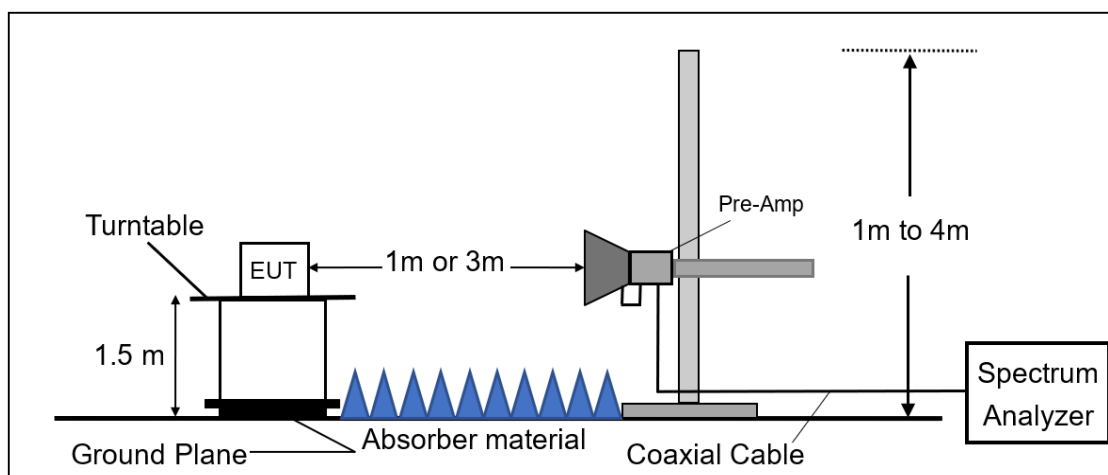
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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8.3 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. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. 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.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

8.4 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 $20 \cdot \log(uV/m)$

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

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

8.5 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.

8.6 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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8.6.1 Radiated Band Edge Measurement Result

NB

Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2022-04-27

Test Frequency :2412 MHz

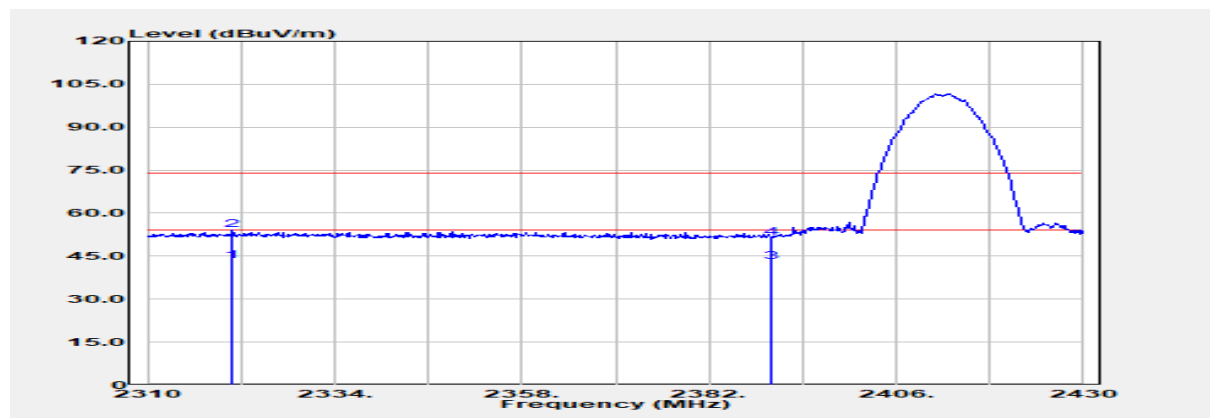
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2320.920	Average	37.47	5.81	43.28	54.00	-10.72
2320.920	Peak	48.19	5.81	54.00	74.00	-20.00
2390.000	Average	37.85	5.18	43.03	54.00	-10.97
2390.000	Peak	46.40	5.18	51.58	74.00	-22.42

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2022-04-27

Test Frequency :2412 MHz

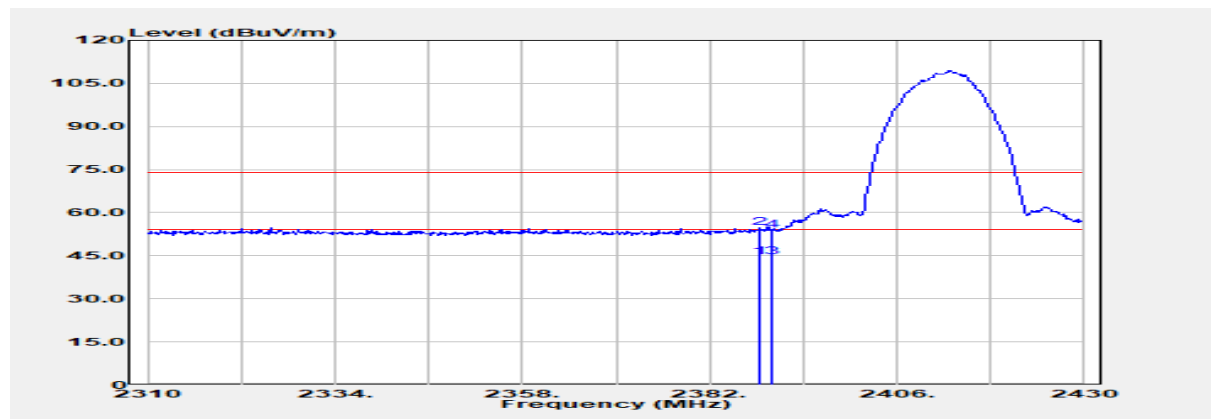
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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	39.26	5.11	44.37	54.00	-9.63
2388.480	Peak	49.48	5.11	54.59	74.00	-19.41
2390.000	Average	39.47	5.18	44.65	54.00	-9.35
2390.000	Peak	48.72	5.18	53.90	74.00	-20.10

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2022-04-27

Test Frequency :2462 MHz

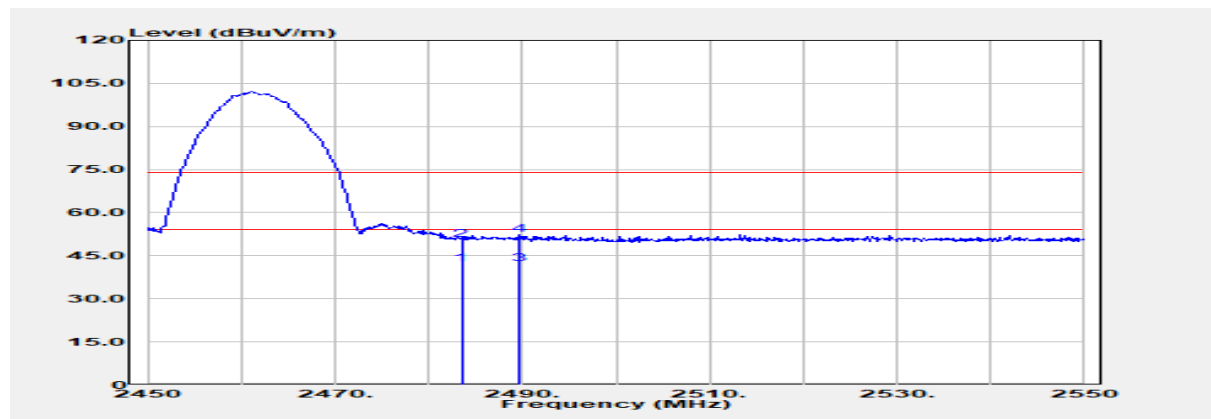
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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	38.02	4.04	42.06	54.00	-11.94
2483.500	Peak	46.50	4.04	50.53	74.00	-23.47
2489.600	Average	38.02	3.98	42.00	54.00	-12.00
2489.600	Peak	48.23	3.98	52.21	74.00	-21.79

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2022-04-27

Test Frequency :2462 MHz

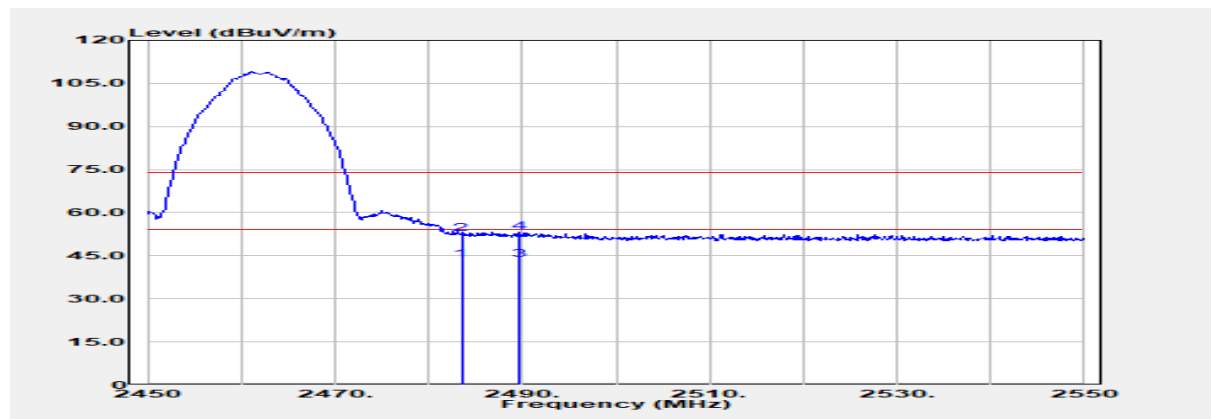
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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	39.68	4.04	43.72	54.00	-10.28
2483.500	Peak	48.61	4.04	52.64	74.00	-21.36
2489.600	Average	39.63	3.98	43.61	54.00	-10.39
2489.600	Peak	49.30	3.98	53.28	74.00	-20.72

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2022-04-27

Test Frequency :2412 MHz

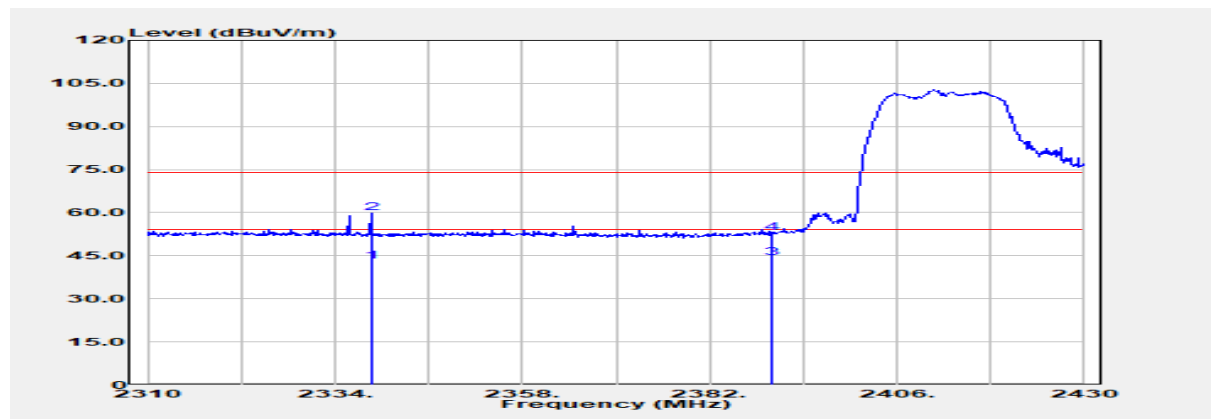
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2338.680	Average	37.63	5.31	42.94	54.00	-11.06
2338.680	Peak	54.57	5.31	59.87	74.00	-14.13
2390.000	Average	39.00	5.18	44.18	54.00	-9.82
2390.000	Peak	47.86	5.18	53.04	74.00	-20.96

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2022-04-27

Test Frequency :2412 MHz

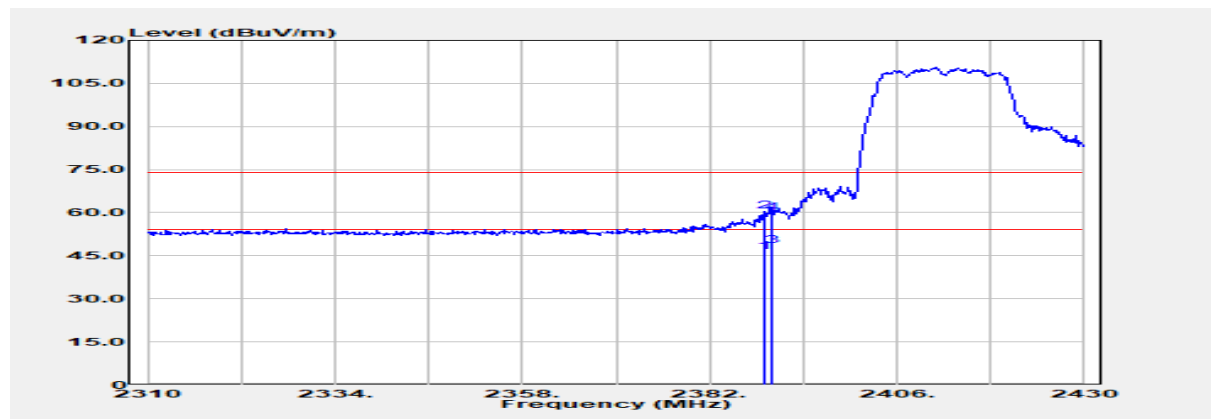
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.960	Average	41.17	5.13	46.30	54.00	-7.70
2388.960	Peak	55.32	5.13	60.45	74.00	-13.55
2390.000	Average	43.38	5.18	48.56	54.00	-5.44
2390.000	Peak	54.73	5.18	59.91	74.00	-14.09

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2022-04-27

Test Frequency :2462 MHz

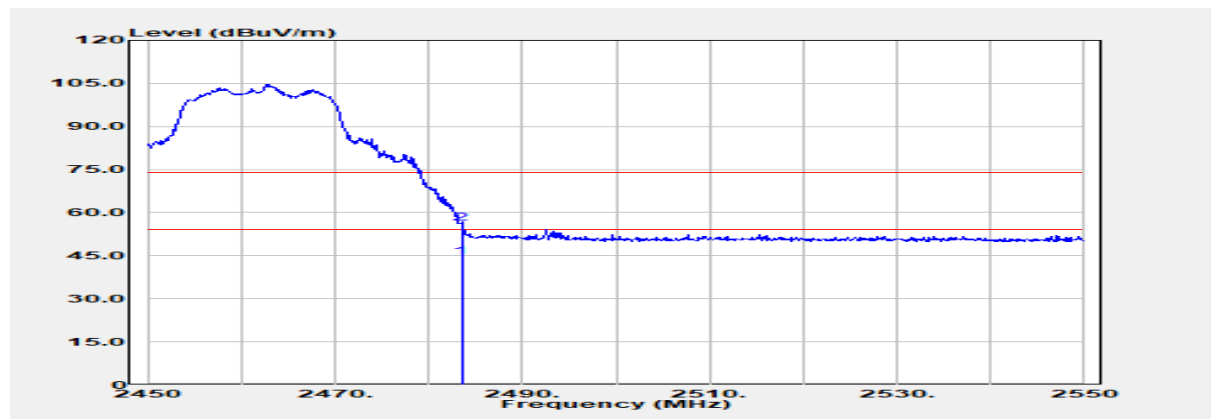
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	40.35	4.04	44.39	54.00	-9.61
2483.500	Peak	52.32	4.04	56.36	74.00	-17.64

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2022-04-27

Test Frequency :2462 MHz

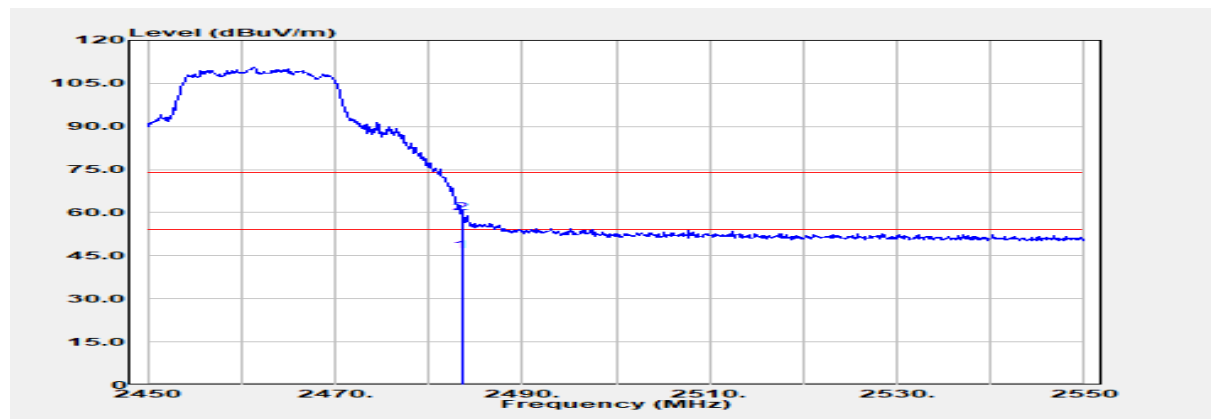
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	42.60	4.04	46.63	54.00	-7.37
2483.500	Peak	55.93	4.04	59.96	74.00	-14.04

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac20

Test Date :2022-04-27

Test Frequency :2412 MHz

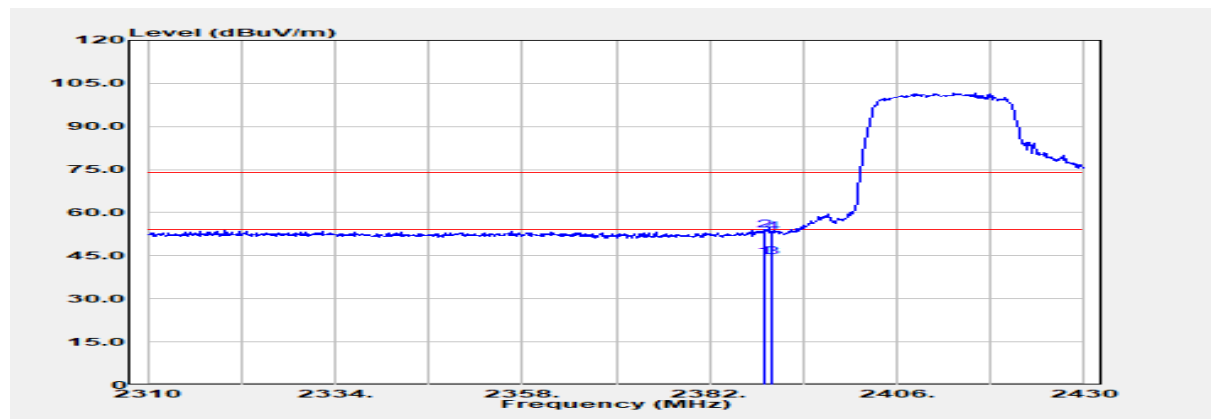
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.960	Average	39.24	5.13	44.37	54.00	-9.63
2388.960	Peak	48.71	5.13	53.84	74.00	-20.16
2390.000	Average	39.31	5.18	44.49	54.00	-9.51
2390.000	Peak	48.08	5.18	53.26	74.00	-20.74

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac20

Test Date :2022-04-27

Test Frequency :2412 MHz

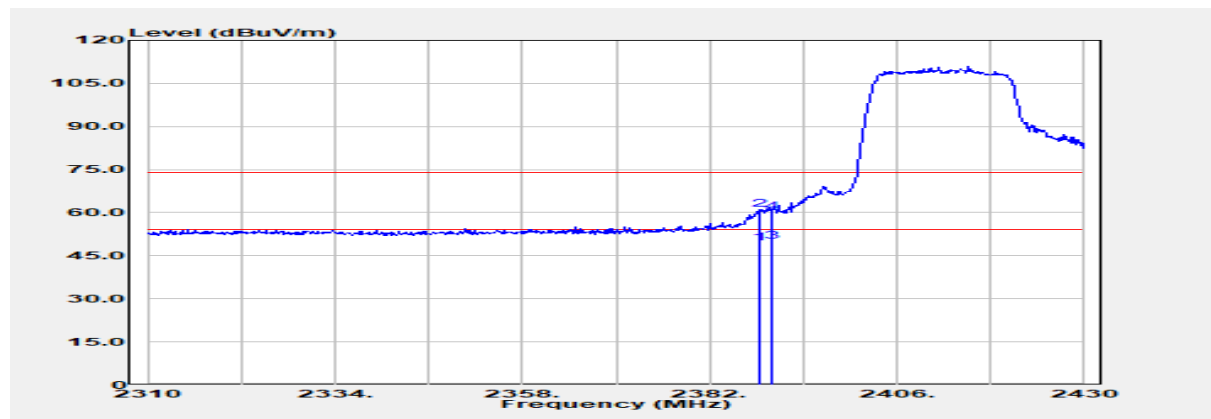
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.480	Average	44.12	5.11	49.23	54.00	-4.77
2388.480	Peak	55.95	5.11	61.07	74.00	-12.93
2390.000	Average	44.70	5.18	49.88	54.00	-4.12
2390.000	Peak	54.82	5.18	60.00	74.00	-14.00

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac20

Test Date :2022-04-27

Test Frequency :2462 MHz

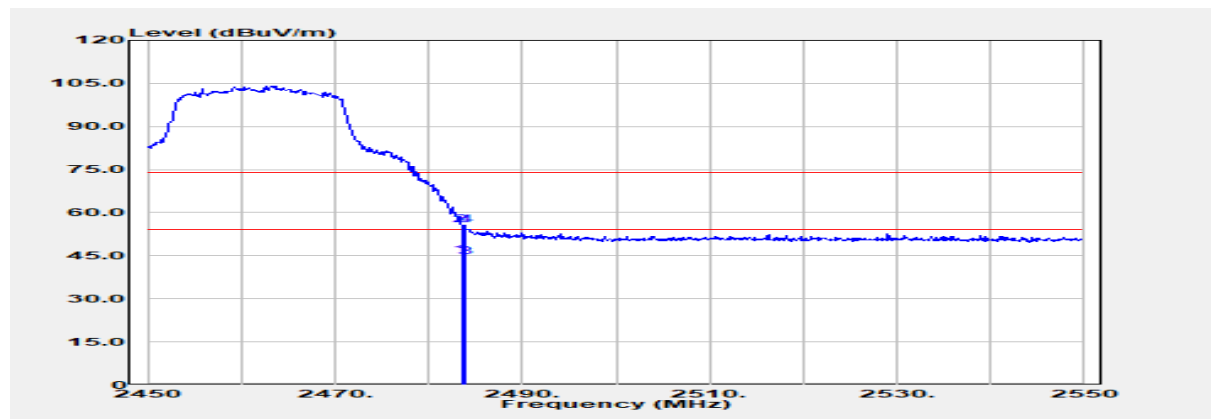
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	41.16	4.04	45.20	54.00	-8.80
2483.500	Peak	51.62	4.04	55.65	74.00	-18.35
2483.800	Average	40.48	4.03	44.51	54.00	-9.49
2483.800	Peak	51.55	4.03	55.58	74.00	-18.42

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac20

Test Date :2022-04-27

Test Frequency :2462 MHz

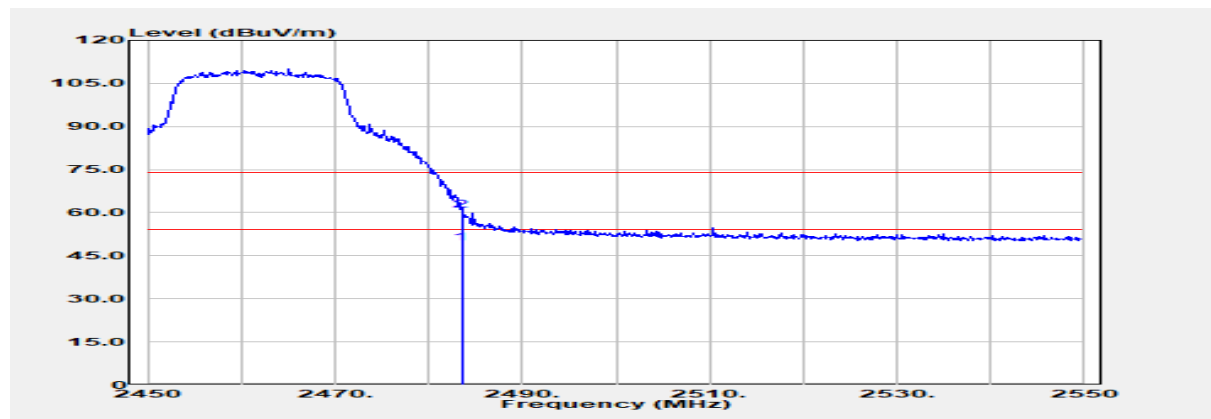
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	45.19	4.04	49.23	54.00	-4.77
2483.500	Peak	56.61	4.04	60.64	74.00	-13.36

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Report Number :TERF2204000204E2

Operation Mode :802.11ac40

Test Frequency :2422 MHz

Test Mode :BE CH LOW

EUT Pol :NB Plane

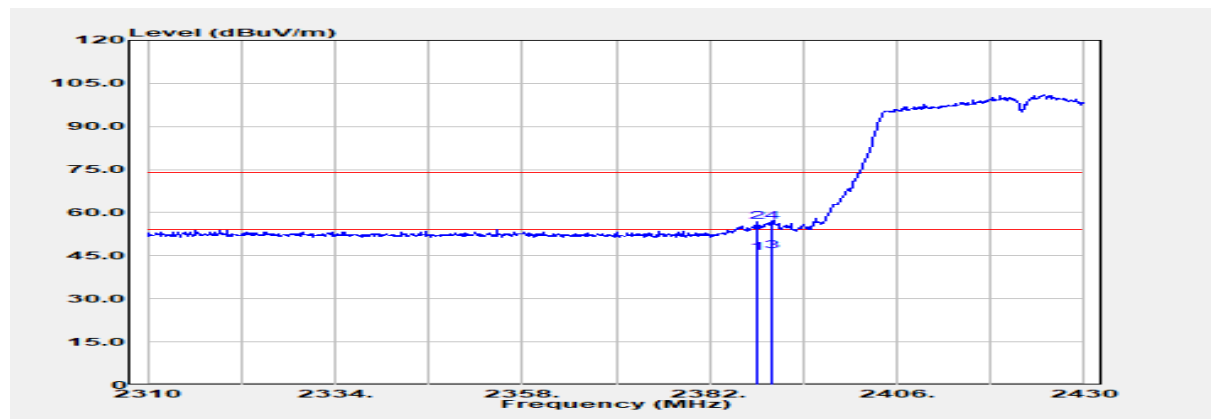
Test Site :SAC C

Test Date :2022-04-27

Temp./Humi. :22.1/70

Antenna Pol. :Vertical

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.000	Average	40.85	5.09	45.94	54.00	-8.06
2388.000	Peak	51.61	5.09	56.70	74.00	-17.30
2390.000	Average	41.44	5.18	46.62	54.00	-7.38
2390.000	Peak	51.63	5.18	56.81	74.00	-17.19

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac40

Test Date :2022-04-27

Test Frequency :2422 MHz

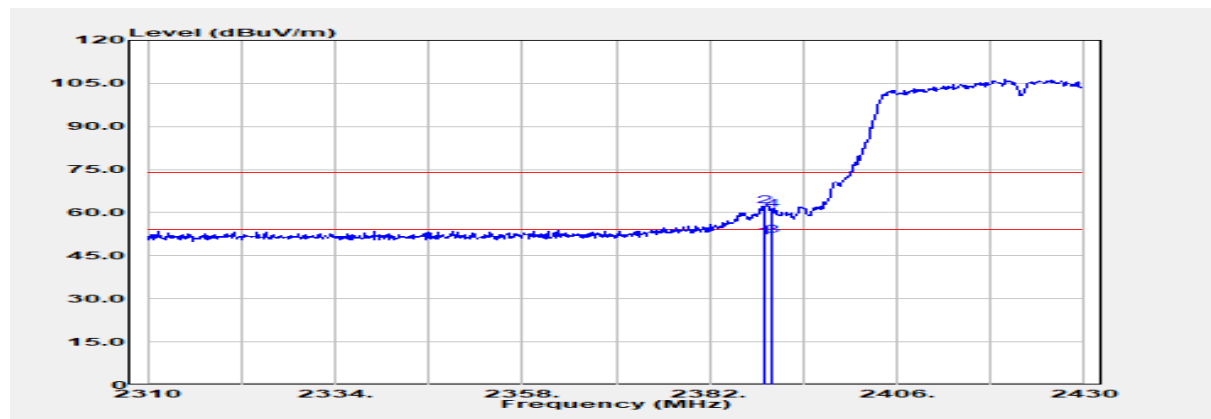
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.960	Average	46.40	5.13	51.53	54.00	-2.47
2388.960	Peak	57.16	5.13	62.29	74.00	-11.71
2390.000	Average	46.75	5.18	51.93	54.00	-2.07
2390.000	Peak	55.82	5.18	61.00	74.00	-13.00

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac40

Test Date :2022-04-27

Test Frequency :2452 MHz

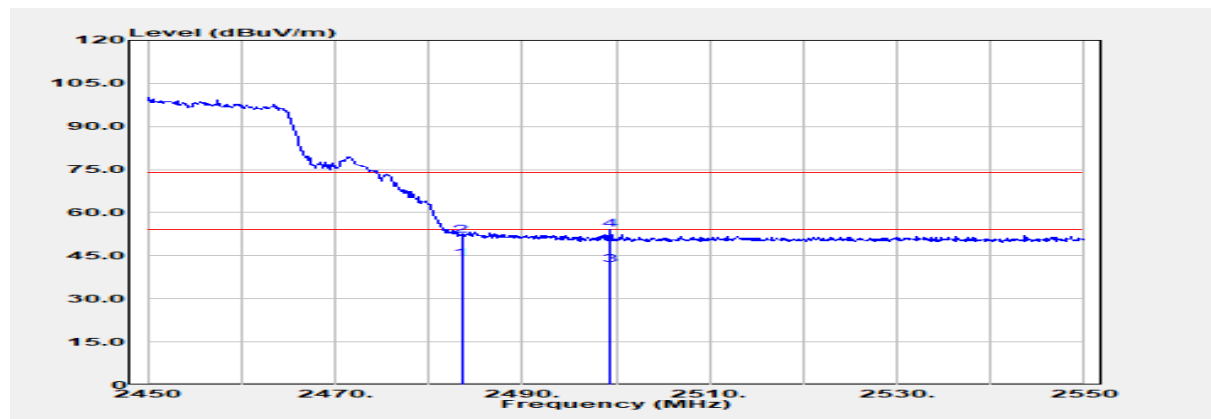
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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	39.80	4.04	43.84	54.00	-10.16
2483.500	Peak	48.10	4.04	52.13	74.00	-21.87
2499.400	Average	38.29	3.44	41.73	54.00	-12.27
2499.400	Peak	50.59	3.44	54.02	74.00	-19.98

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac40

Test Date :2022-04-27

Test Frequency :2452 MHz

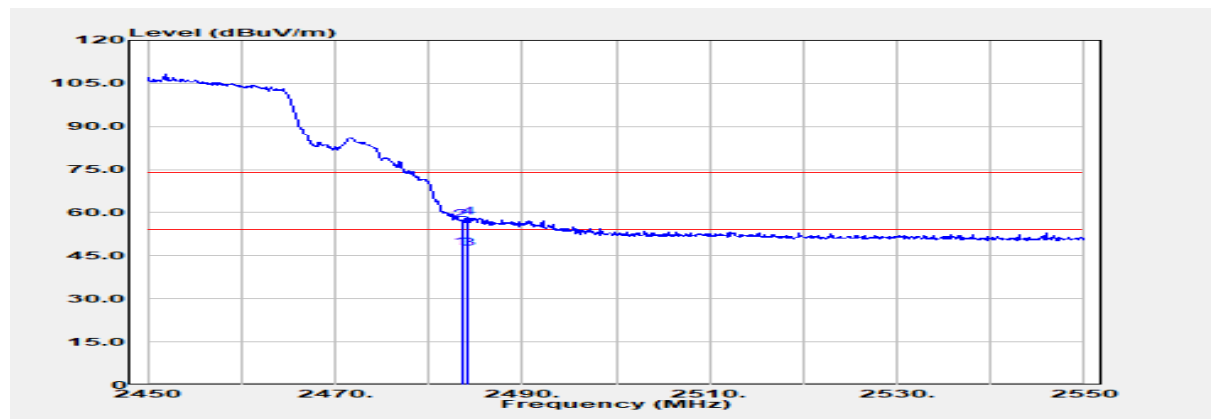
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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	43.89	4.04	47.93	54.00	-6.07
2483.500	Peak	53.45	4.04	57.49	74.00	-16.51
2484.100	Average	43.57	4.03	47.60	54.00	-6.40
2484.100	Peak	54.33	4.03	58.36	74.00	-15.64

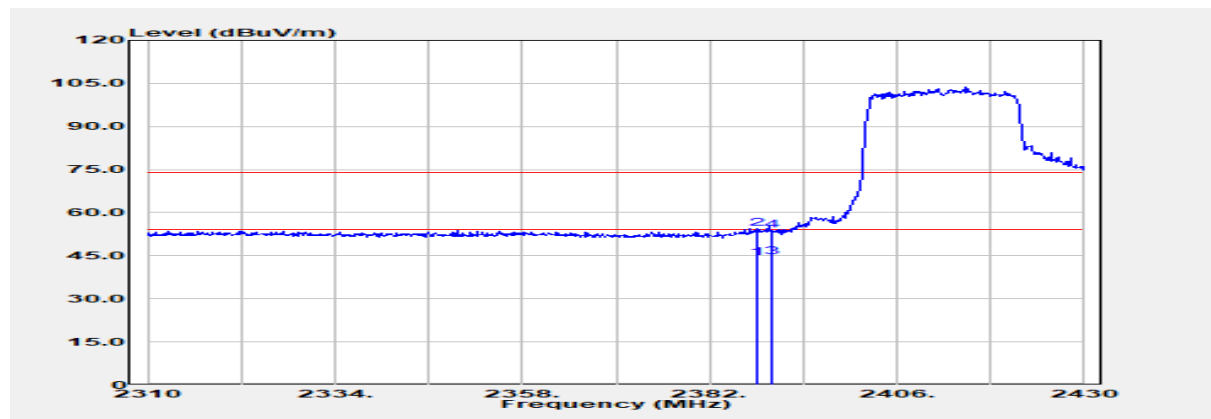
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Report Number :TERF2204000204E2
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz Full Ru
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-04-27
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.000	Average	39.07	5.09	44.16	54.00	-9.84
2388.000	Peak	49.35	5.09	54.45	74.00	-19.55
2390.000	Average	39.33	5.18	44.51	54.00	-9.49
2390.000	Peak	48.60	5.18	53.78	74.00	-20.22

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2412 MHz Full Ru

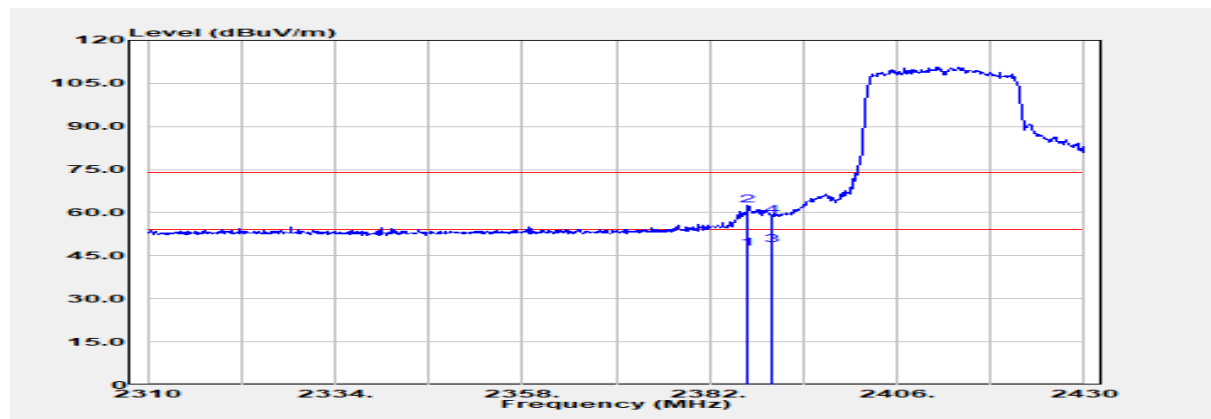
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.920	Average	42.61	5.04	47.65	54.00	-6.35
2386.920	Peak	57.43	5.04	62.48	74.00	-11.52
2390.000	Average	43.59	5.18	48.77	54.00	-5.23
2390.000	Peak	53.76	5.18	58.94	74.00	-15.06

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2412 MHz 26/0

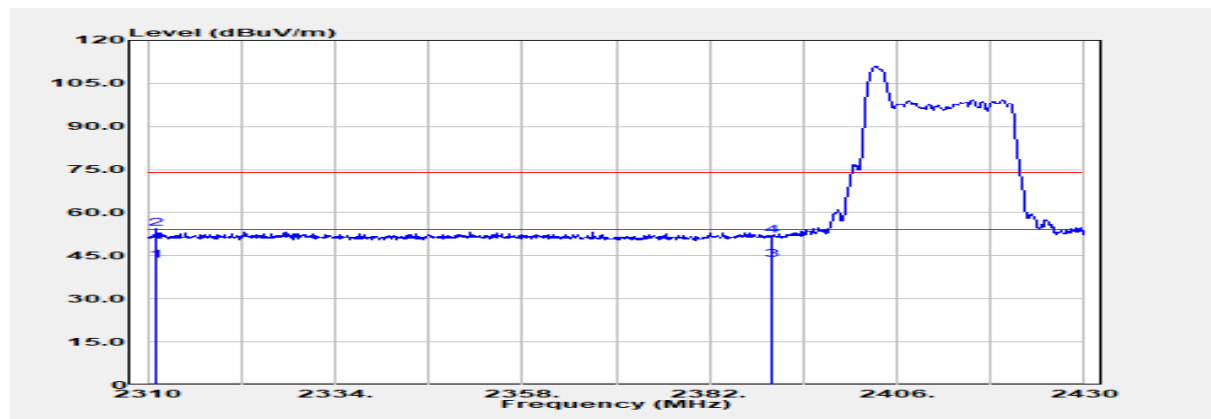
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2311.200	Average	37.63	5.75	43.38	54.00	-10.62
2311.200	Peak	48.59	5.75	54.35	74.00	-19.65
2390.000	Average	38.45	5.18	43.63	54.00	-10.37
2390.000	Peak	46.87	5.18	52.05	74.00	-21.95

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2412 MHz 26/0

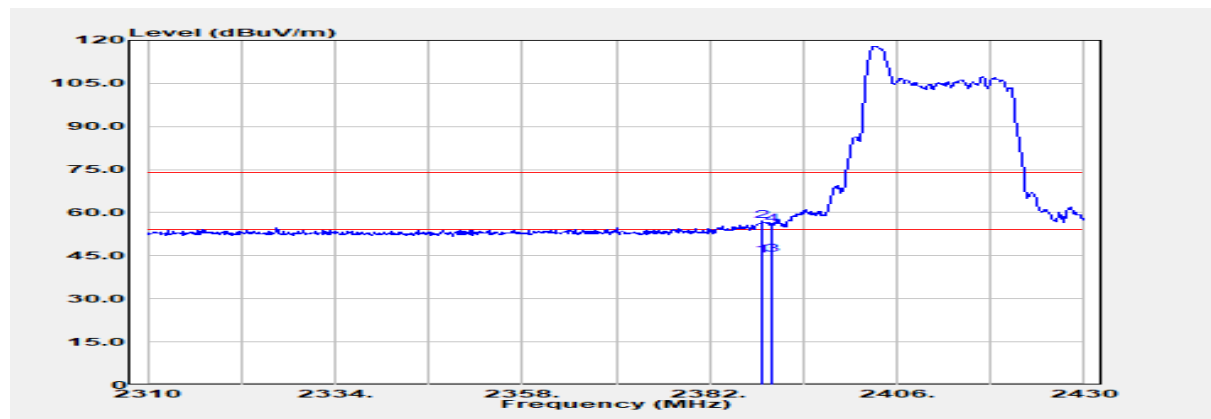
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.840	Average	40.03	5.13	45.16	54.00	-8.84
2388.840	Peak	51.92	5.13	57.05	74.00	-16.95
2390.000	Average	40.19	5.18	45.37	54.00	-8.63
2390.000	Peak	50.75	5.18	55.93	74.00	-18.07

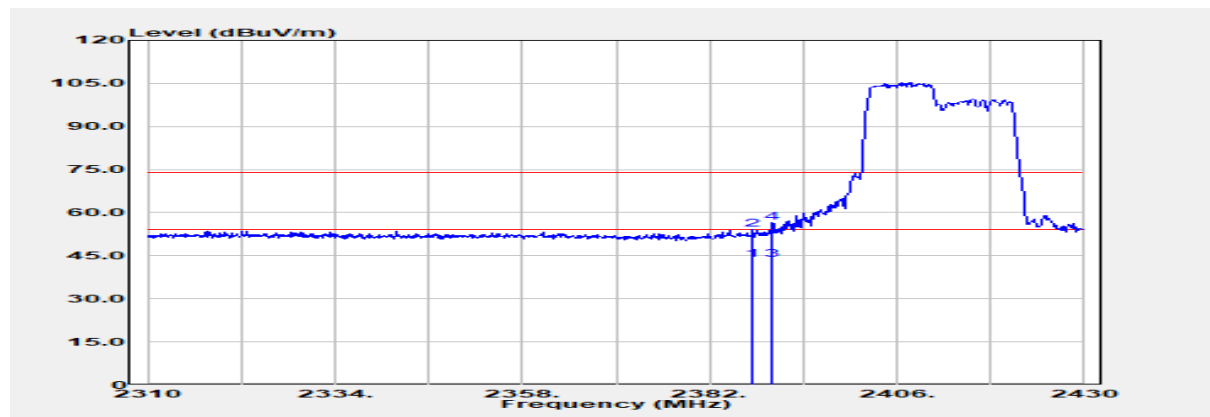
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Report Number :TERF2204000204E2
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz 106/53
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-04-27
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2387.520	Average	38.54	5.07	43.61	54.00	-10.39
2387.520	Peak	49.16	5.07	54.23	74.00	-19.77
2390.000	Average	38.57	5.18	43.75	54.00	-10.25
2390.000	Peak	51.21	5.18	56.39	74.00	-17.61

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2412 MHz 106/53

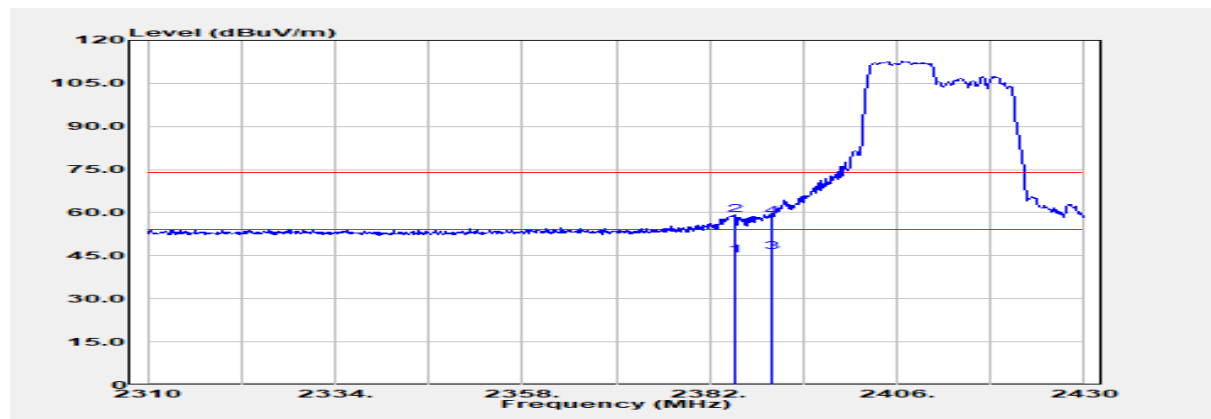
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2385.240	Average	40.24	4.97	45.21	54.00	-8.79
2385.240	Peak	54.43	4.97	59.40	74.00	-14.60
2390.000	Average	41.09	5.18	46.27	54.00	-7.73
2390.000	Peak	53.48	5.18	58.66	74.00	-15.34

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2462 MHz Full Ru

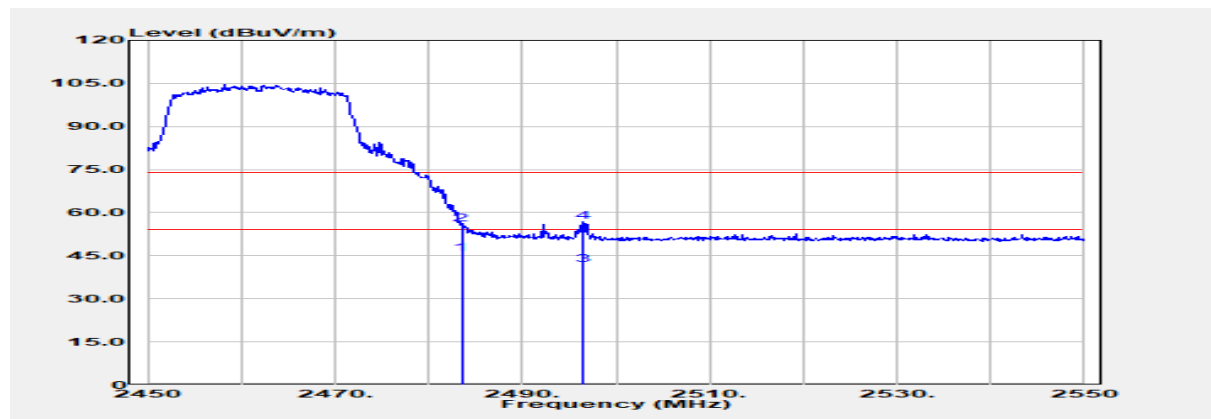
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	41.54	4.04	45.58	54.00	-8.42
2483.500	Peak	51.76	4.04	55.80	74.00	-18.20
2496.500	Average	38.34	3.60	41.94	54.00	-12.06
2496.500	Peak	53.31	3.60	56.91	74.00	-17.09

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2462 MHz Full Ru

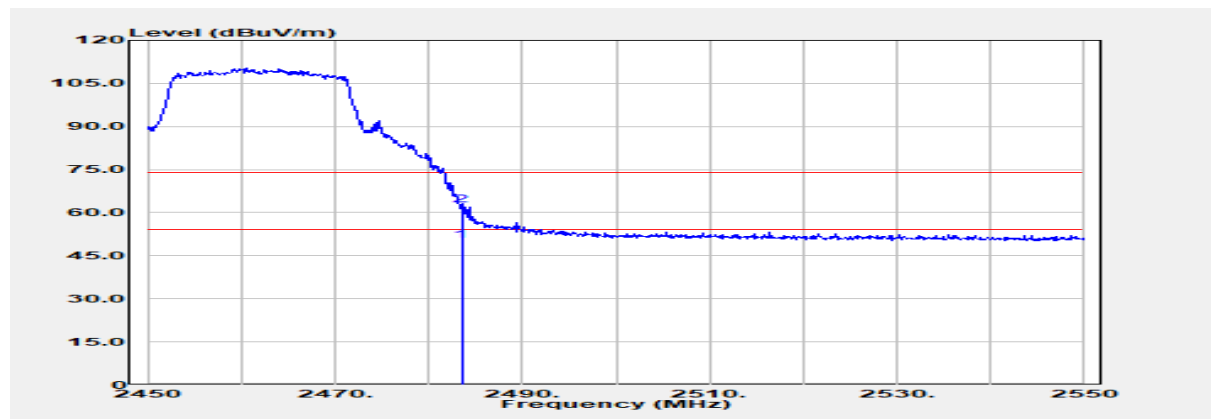
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	46.12	4.04	50.16	54.00	-3.84
2483.500	Peak	58.66	4.04	62.70	74.00	-11.30

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2462 MHz 26/8

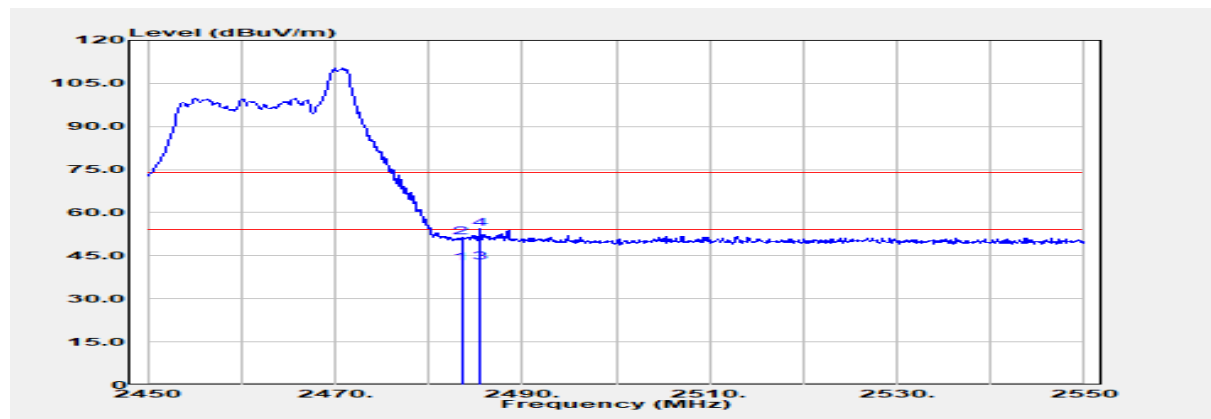
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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	38.34	4.04	42.38	54.00	-11.62
2483.500	Peak	47.49	4.04	51.53	74.00	-22.47
2485.500	Average	38.60	4.02	42.62	54.00	-11.38
2485.500	Peak	50.29	4.02	54.30	74.00	-19.70

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2462 MHz 26/8

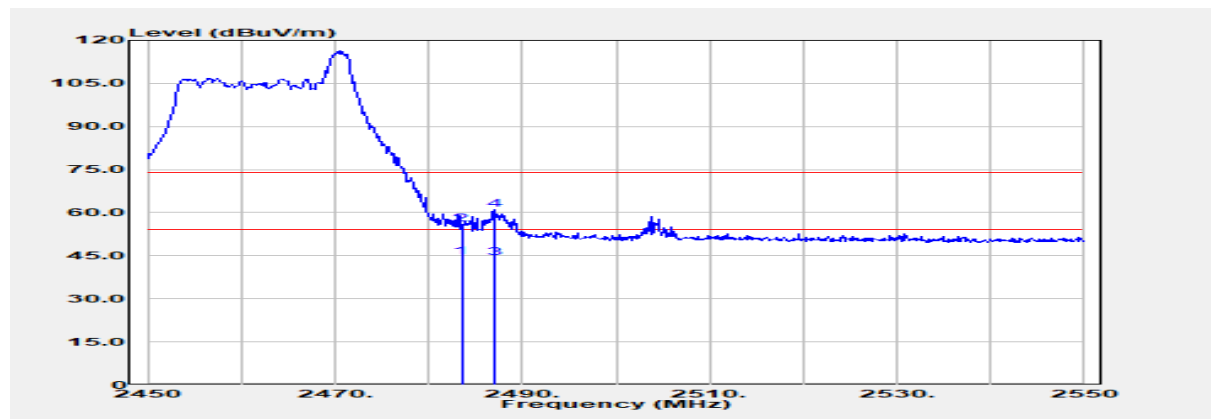
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



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	40.35	4.04	44.39	54.00	-9.61
2483.500	Peak	51.93	4.04	55.96	74.00	-18.04
2487.100	Average	40.29	4.00	44.29	54.00	-9.71
2487.100	Peak	56.92	4.00	60.93	74.00	-13.07

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2462 MHz 106/54

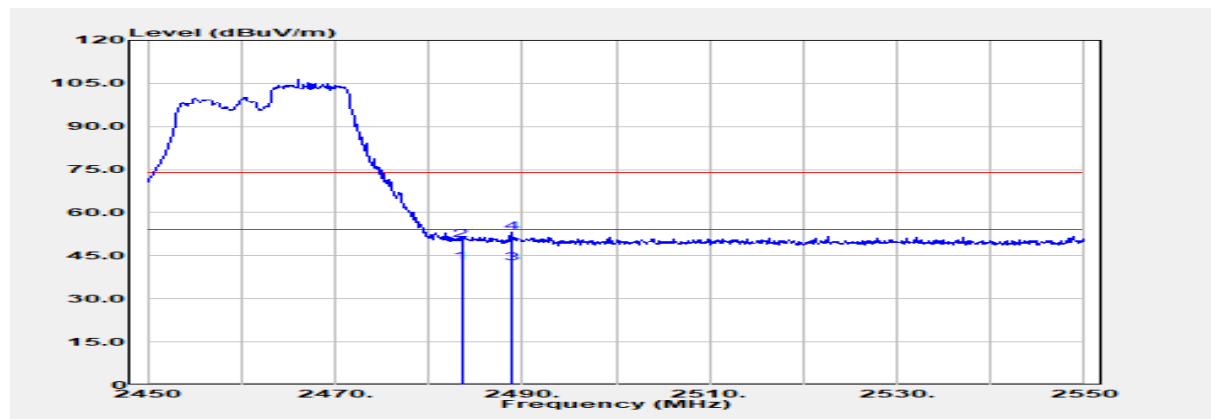
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



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	38.61	4.04	42.65	54.00	-11.35
2483.500	Peak	46.46	4.04	50.50	74.00	-23.50
2488.800	Average	38.32	3.99	42.31	54.00	-11.69
2488.800	Peak	49.14	3.99	53.13	74.00	-20.87

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-27

Test Frequency :2462 MHz 106/54

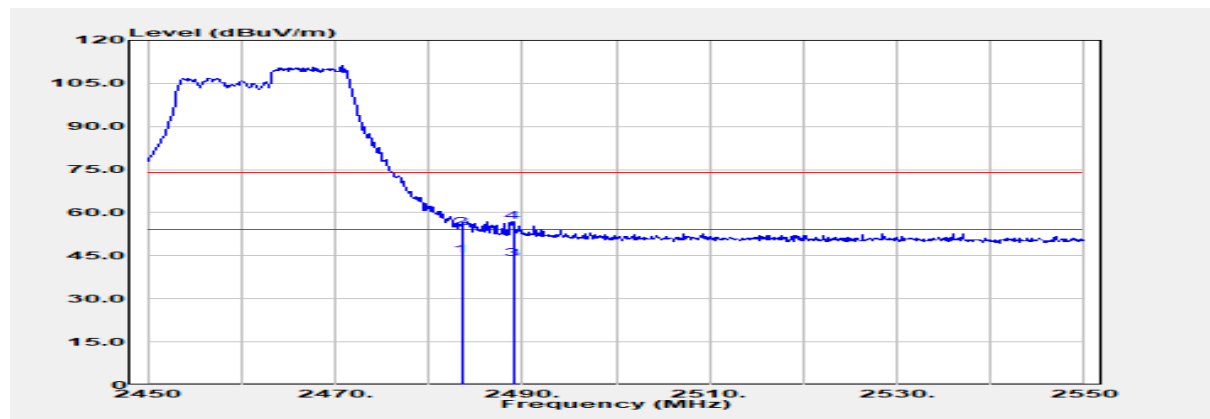
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	40.93	4.04	44.97	54.00	-9.03
2483.500	Peak	50.83	4.04	54.86	74.00	-19.14
2489.000	Average	39.86	3.98	43.85	54.00	-10.16
2489.000	Peak	52.97	3.98	56.95	74.00	-17.05

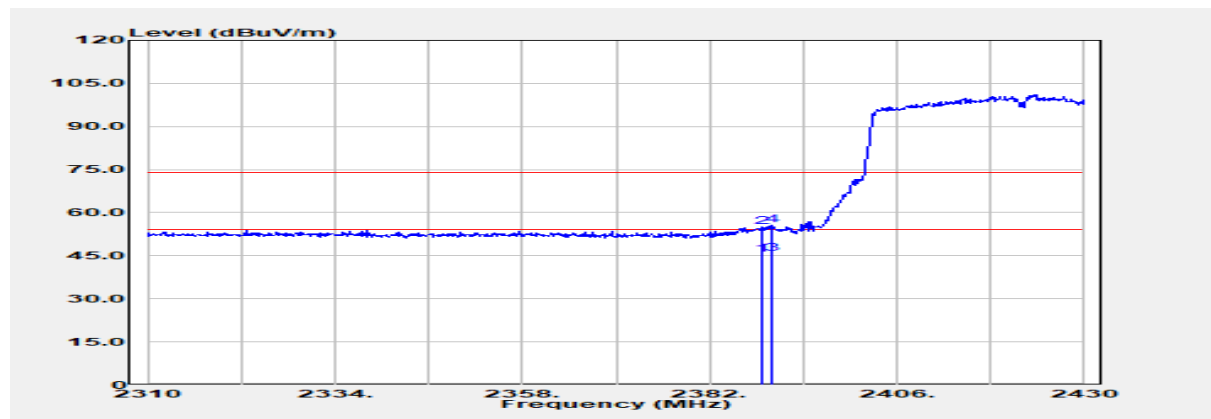
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Report Number :TERF2204000204E2
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz Full Ru
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2022-04-27
 Temp./Humi. :22.1/70
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.600	Average	40.29	5.12	45.41	54.00	-8.59
2388.600	Peak	49.92	5.12	55.03	74.00	-18.97
2390.000	Average	40.56	5.18	45.74	54.00	-8.26
2390.000	Peak	50.60	5.18	55.78	74.00	-18.22

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax40

Test Date :2022-04-27

Test Frequency :2422 MHz Full Ru

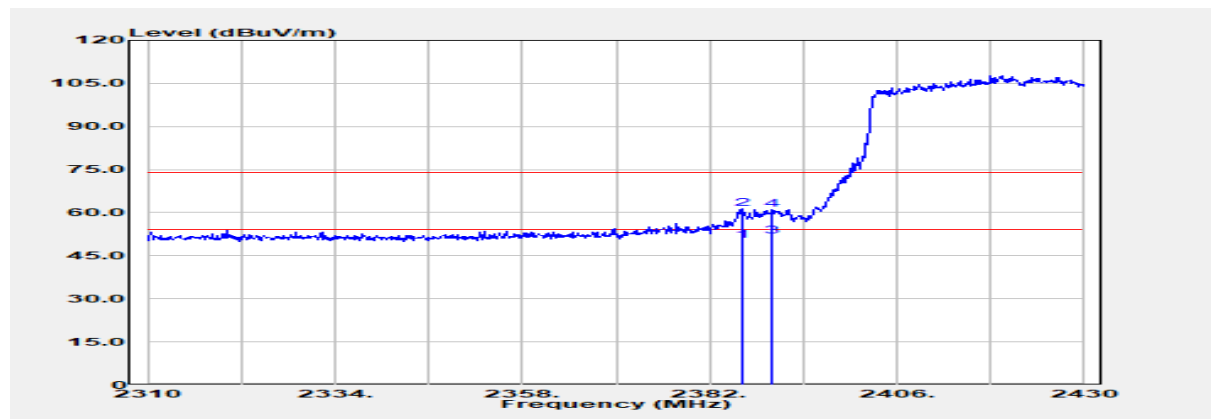
Temp./Humi. :22.1/70

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2386.080	Average	45.15	5.01	50.16	54.00	-3.84
2386.080	Peak	56.26	5.01	61.26	74.00	-12.74
2390.000	Average	46.64	5.18	51.82	54.00	-2.18
2390.000	Peak	55.85	5.18	61.03	74.00	-12.97

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax40

Test Date :2022-04-27

Test Frequency :2452 MHz Full Ru

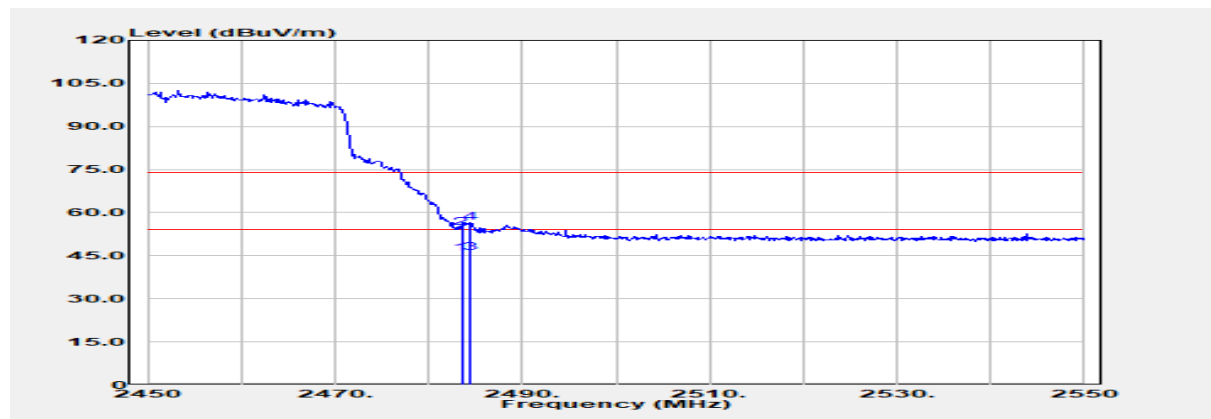
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	41.79	4.04	45.83	54.00	-8.17
2483.500	Peak	50.78	4.04	54.81	74.00	-19.19
2484.400	Average	41.86	4.03	45.89	54.00	-8.11
2484.400	Peak	52.58	4.03	56.61	74.00	-17.39

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax40

Test Date :2022-04-27

Test Frequency :2452 MHz Full Ru

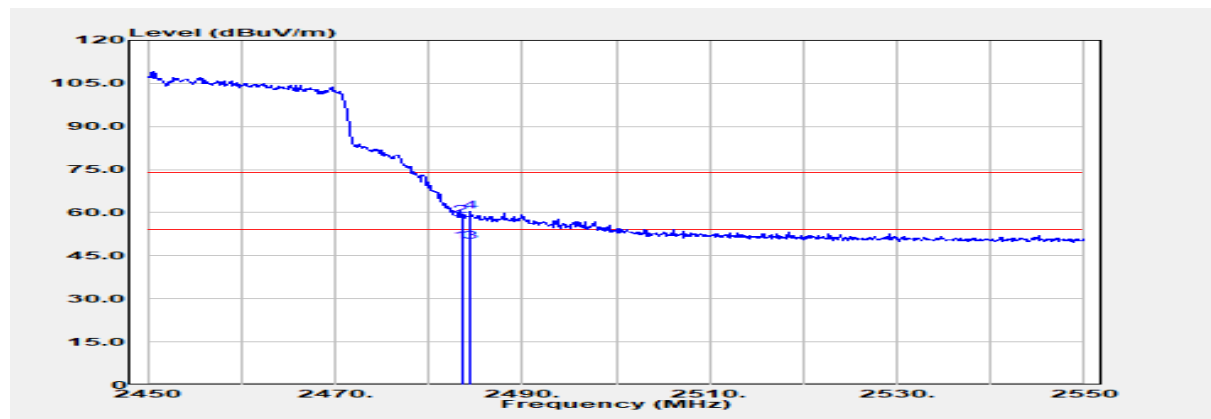
Temp./Humi. :22.1/70

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	45.74	4.04	49.78	54.00	-4.22
2483.500	Peak	55.05	4.04	59.08	74.00	-14.92
2484.500	Average	45.76	4.03	49.79	54.00	-4.21
2484.500	Peak	56.44	4.03	60.47	74.00	-13.53

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TB

Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2022-04-21

Test Frequency :2412 MHz

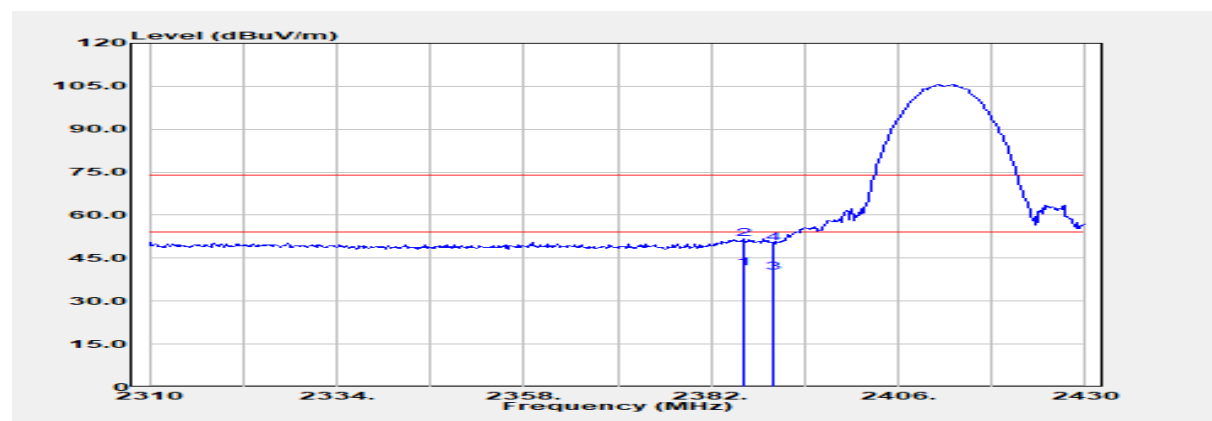
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2386.346	Average	36.47	5.02	41.49	54.00	-12.51
2386.346	Peak	46.76	5.02	51.78	74.00	-22.22
2390.000	Average	34.89	5.18	40.07	54.00	-13.93
2390.000	Peak	45.15	5.18	50.33	74.00	-23.67

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2022-04-21

Test Frequency :2412 MHz

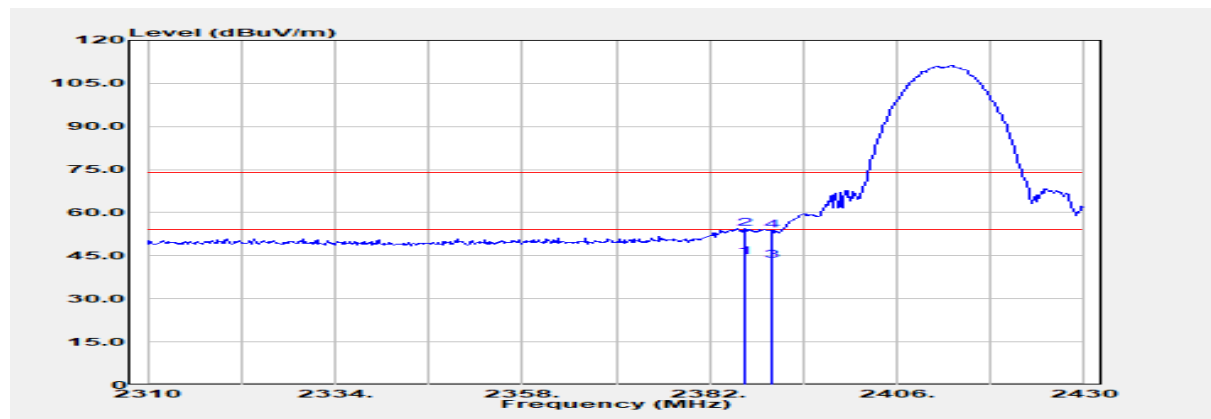
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.539	Average	39.40	5.03	44.43	54.00	-9.57
2386.539	Peak	49.40	5.03	54.43	74.00	-19.57
2390.000	Average	38.07	5.18	43.25	54.00	-10.75
2390.000	Peak	48.63	5.18	53.81	74.00	-20.19

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2022-04-21

Test Frequency :2462 MHz

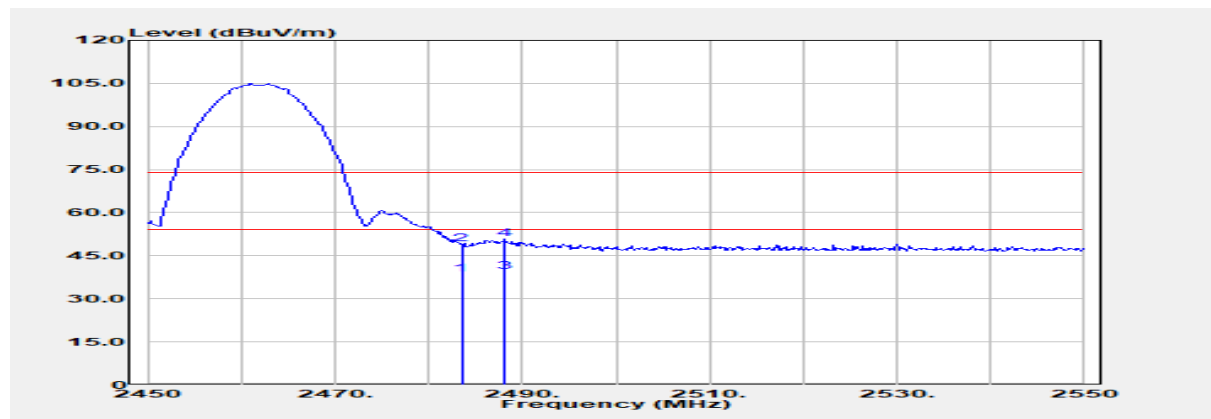
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	34.33	4.04	38.37	54.00	-15.63
2483.500	Peak	45.05	4.04	49.08	74.00	-24.92
2488.141	Average	35.54	3.99	39.53	54.00	-14.47
2488.141	Peak	46.72	3.99	50.72	74.00	-23.28

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2022-04-21

Test Frequency :2462 MHz

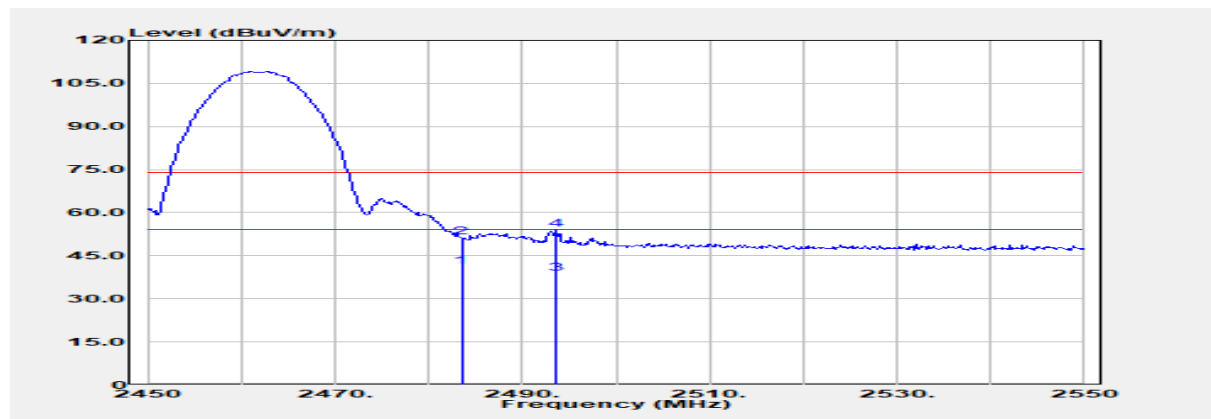
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	37.06	4.04	41.10	54.00	-12.90
2483.500	Peak	47.51	4.04	51.55	74.00	-22.45
2493.590	Average	34.95	3.77	38.72	54.00	-15.28
2493.590	Peak	50.33	3.77	54.10	74.00	-19.90

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2022-04-21

Test Frequency :2412 MHz

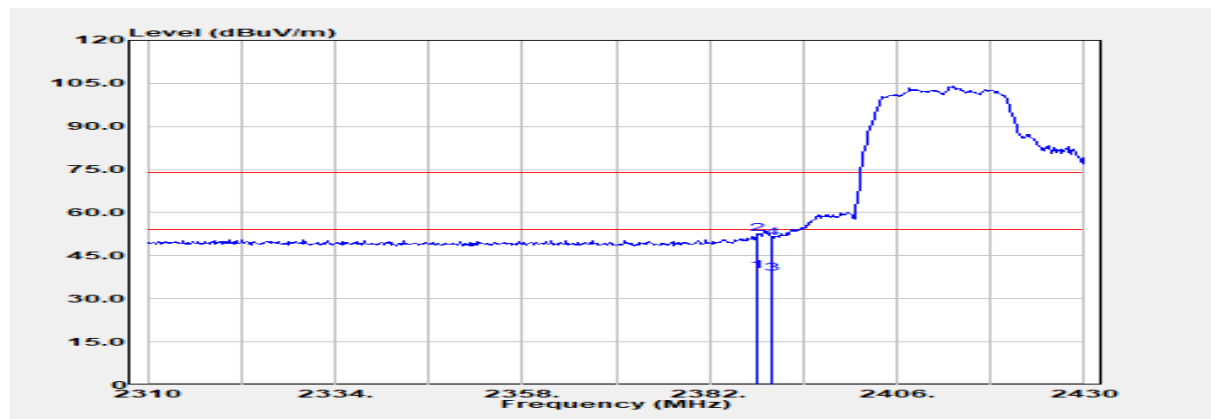
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.077	Average	34.53	5.10	39.63	54.00	-14.37
2388.077	Peak	47.60	5.10	52.70	74.00	-21.30
2390.000	Average	33.47	5.18	38.65	54.00	-15.35
2390.000	Peak	46.05	5.18	51.23	74.00	-22.77

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2022-04-21

Test Frequency :2412 MHz

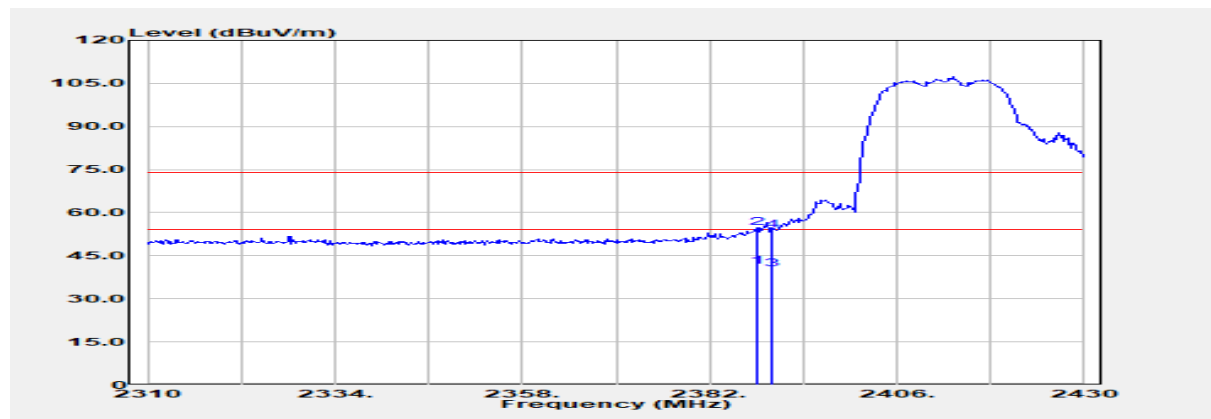
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.077	Average	36.15	5.10	41.25	54.00	-12.75
2388.077	Peak	49.55	5.10	54.64	74.00	-19.36
2390.000	Average	34.99	5.18	40.17	54.00	-13.83
2390.000	Peak	48.79	5.18	53.97	74.00	-20.03

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2022-04-21

Test Frequency :2462 MHz

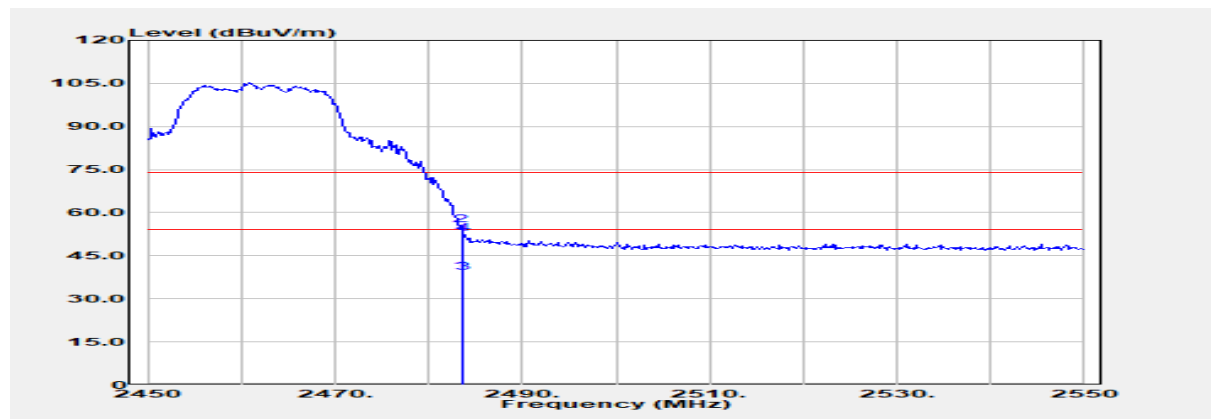
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	35.51	4.04	39.55	54.00	-14.45
2483.500	Peak	51.55	4.04	55.59	74.00	-18.41
2483.654	Average	35.03	4.03	39.06	54.00	-14.94
2483.654	Peak	48.61	4.03	52.64	74.00	-21.36

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2022-04-21

Test Frequency :2462 MHz

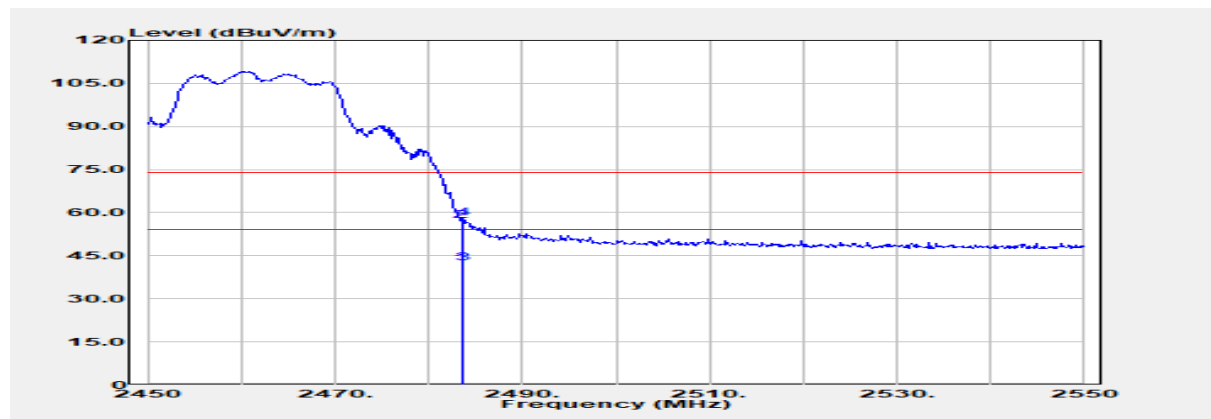
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	38.22	4.04	42.26	54.00	-11.74
2483.500	Peak	53.19	4.04	57.22	74.00	-16.78
2483.654	Average	38.32	4.03	42.35	54.00	-11.65
2483.654	Peak	54.13	4.03	58.16	74.00	-15.84

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac20

Test Date :2022-04-21

Test Frequency :2412 MHz

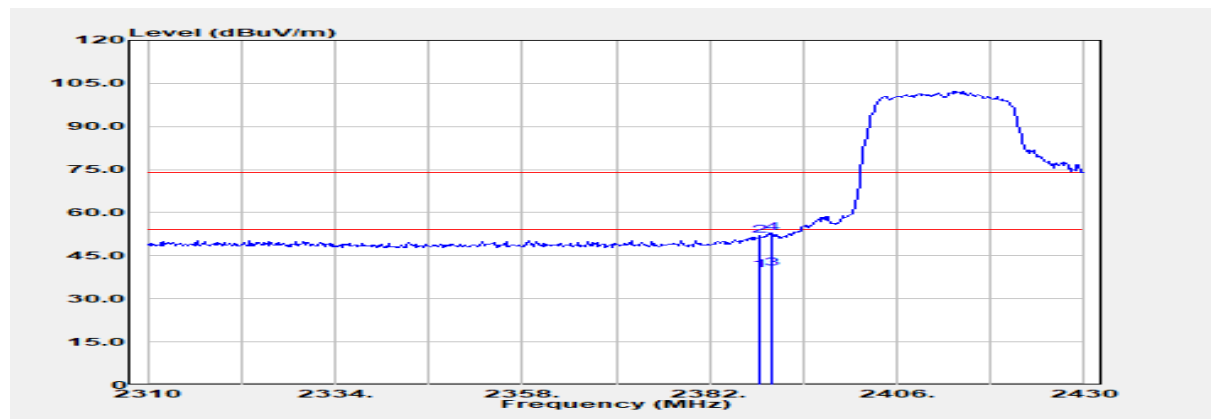
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.461	Average	34.98	5.11	40.09	54.00	-13.91
2388.461	Peak	46.97	5.11	52.08	74.00	-21.92
2390.000	Average	35.28	5.18	40.46	54.00	-13.54
2390.000	Peak	47.75	5.18	52.93	74.00	-21.07

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac20

Test Date :2022-04-21

Test Frequency :2412 MHz

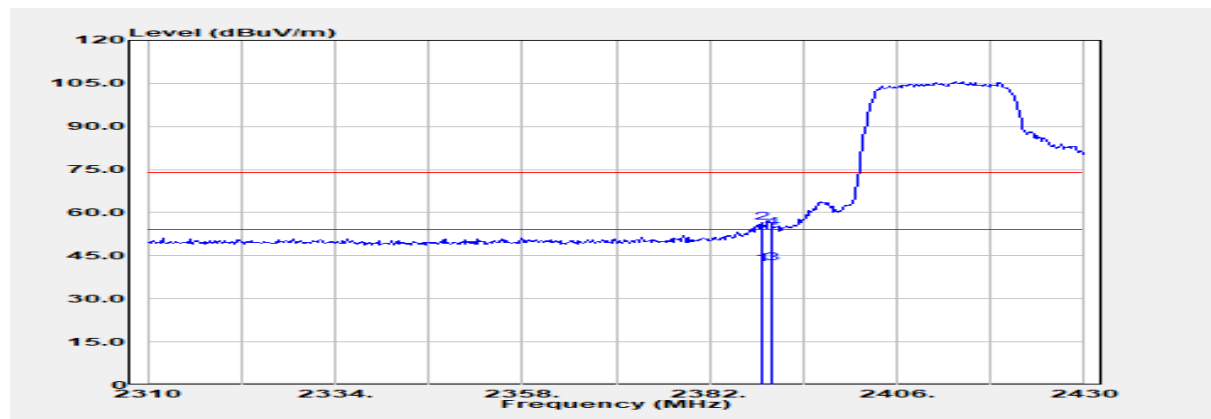
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.654	Average	36.93	5.12	42.05	54.00	-11.95
2388.654	Peak	51.28	5.12	56.40	74.00	-17.60
2390.000	Average	37.11	5.18	42.29	54.00	-11.71
2390.000	Peak	49.45	5.18	54.63	74.00	-19.37

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac20

Test Date :2022-04-21

Test Frequency :2462 MHz

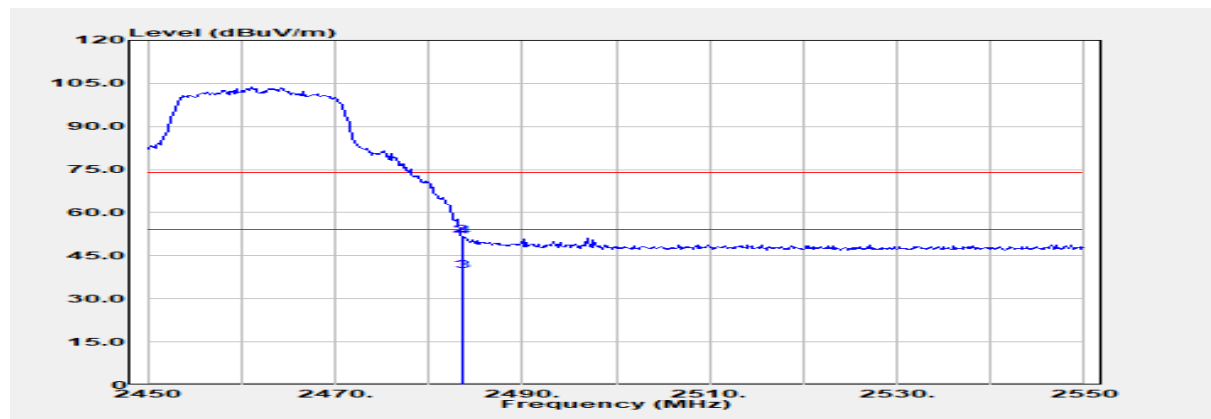
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	35.89	4.04	39.93	54.00	-14.07
2483.500	Peak	48.05	4.04	52.08	74.00	-21.92
2483.654	Average	35.56	4.03	39.59	54.00	-14.41
2483.654	Peak	47.61	4.03	51.65	74.00	-22.35

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac20

Test Date :2022-04-21

Test Frequency :2462 MHz

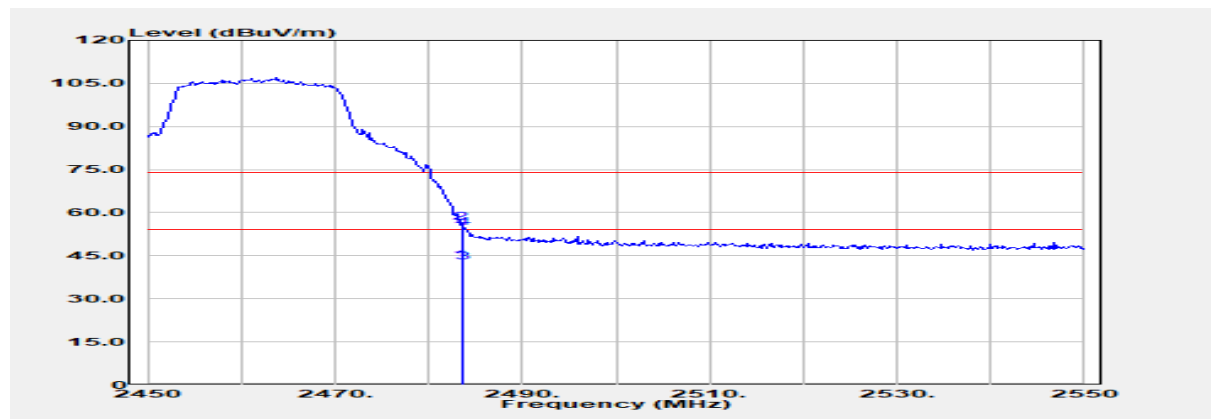
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	39.15	4.04	43.19	54.00	-10.81
2483.500	Peak	52.58	4.04	56.62	74.00	-17.38
2483.654	Average	38.61	4.03	42.64	54.00	-11.36
2483.654	Peak	50.78	4.03	54.82	74.00	-19.18

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac40

Test Date :2022-04-21

Test Frequency :2422 MHz

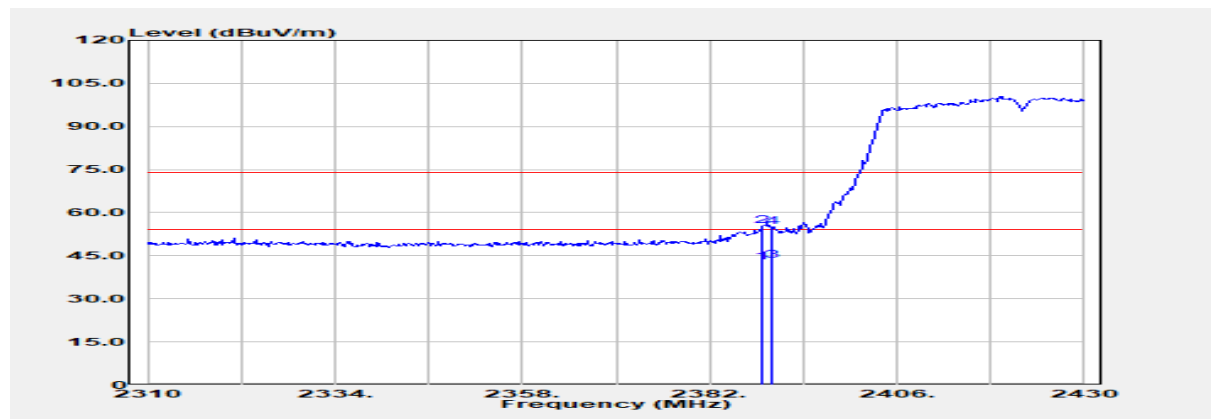
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.846	Average	37.43	5.13	42.56	54.00	-11.44
2388.846	Peak	50.29	5.13	55.42	74.00	-18.58
2390.000	Average	37.98	5.18	43.16	54.00	-10.84
2390.000	Peak	49.79	5.18	54.97	74.00	-19.03

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac40

Test Date :2022-04-21

Test Frequency :2422 MHz

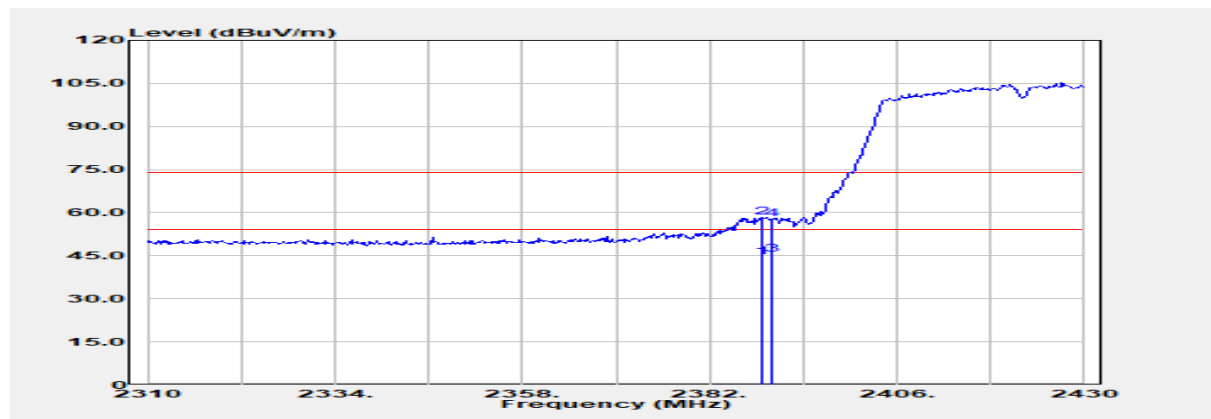
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.846	Average	39.40	5.13	44.53	54.00	-9.47
2388.846	Peak	53.23	5.13	58.35	74.00	-15.65
2390.000	Average	40.25	5.18	45.43	54.00	-8.57
2390.000	Peak	52.68	5.18	57.86	74.00	-16.14

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac40

Test Date :2022-04-21

Test Frequency :2452 MHz

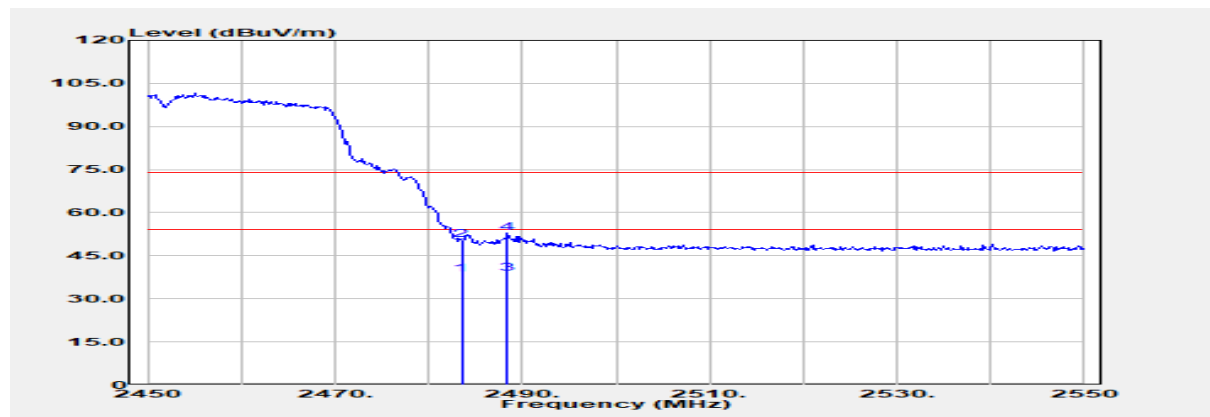
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	34.49	4.04	38.53	54.00	-15.47
2483.500	Peak	46.39	4.04	50.43	74.00	-23.57
2488.461	Average	34.75	3.99	38.74	54.00	-15.26
2488.461	Peak	49.05	3.99	53.03	74.00	-20.97

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ac40

Test Date :2022-04-21

Test Frequency :2452 MHz

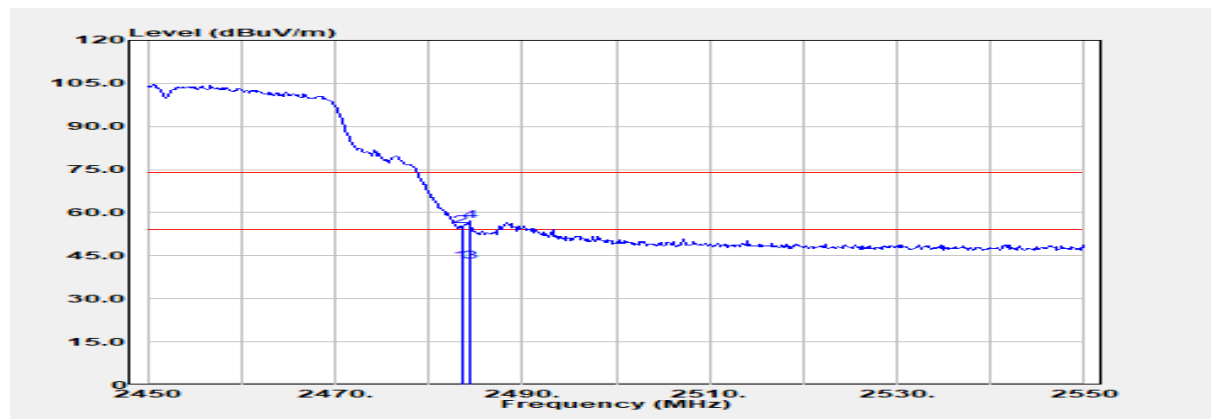
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	39.00	4.04	43.04	54.00	-10.96
2483.500	Peak	51.19	4.04	55.22	74.00	-18.78
2484.295	Average	39.09	4.03	43.12	54.00	-10.88
2484.295	Peak	52.97	4.03	57.00	74.00	-17.00

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2412 MHz Full Ru

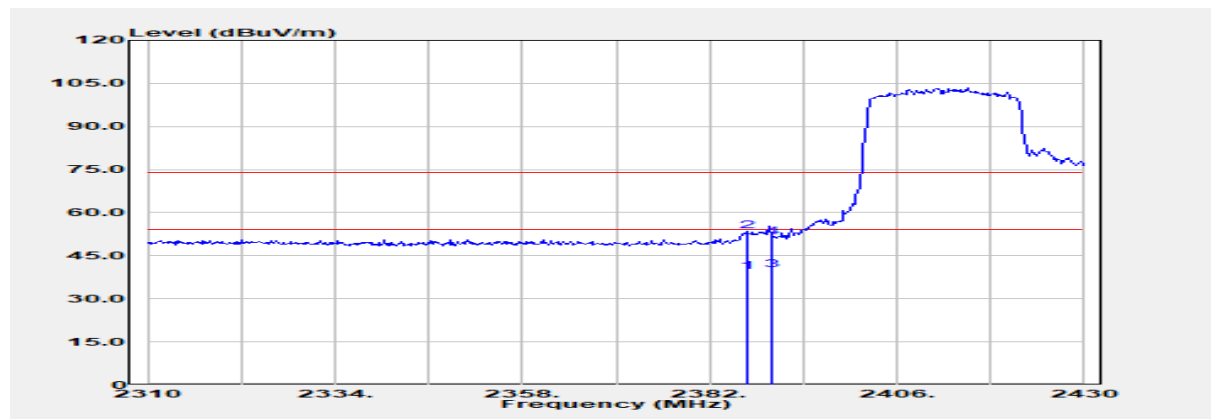
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2386.731	Average	34.33	5.04	39.37	54.00	-14.63
2386.731	Peak	48.38	5.04	53.42	74.00	-20.58
2390.000	Average	34.96	5.18	40.14	54.00	-13.86
2390.000	Peak	46.24	5.18	51.42	74.00	-22.58

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2412 MHz Full Ru

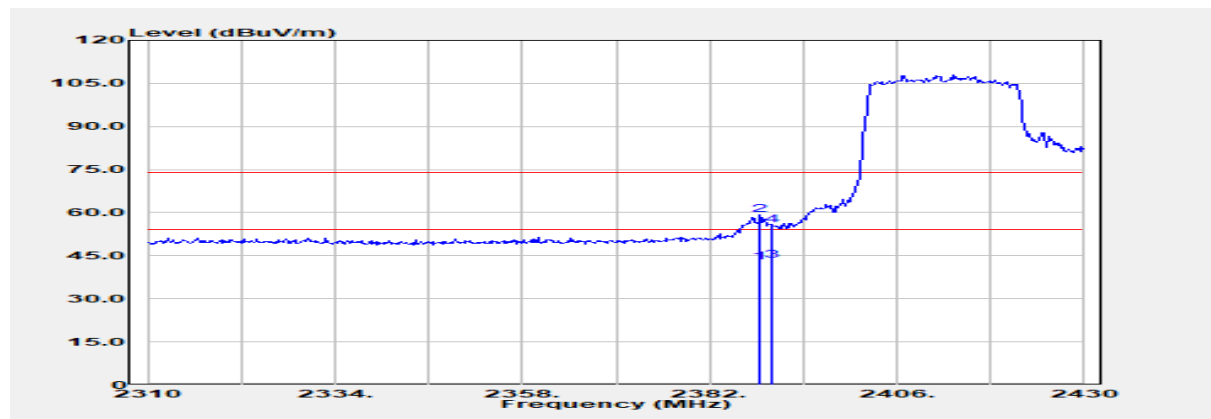
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.461	Average	37.70	5.11	42.81	54.00	-11.19
2388.461	Peak	54.17	5.11	59.28	74.00	-14.72
2390.000	Average	38.05	5.18	43.23	54.00	-10.77
2390.000	Peak	50.52	5.18	55.70	74.00	-18.30

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2412 MHz 26/0

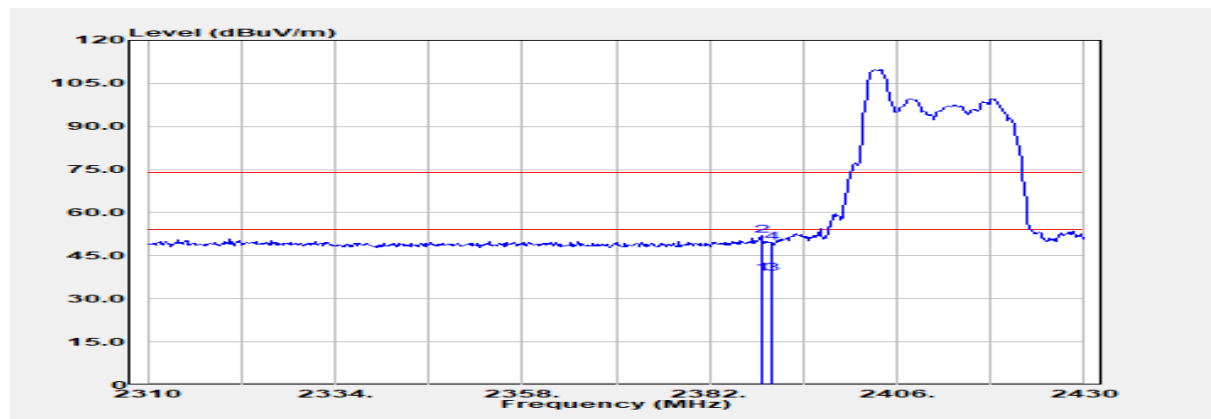
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.654	Average	33.62	5.12	38.74	54.00	-15.26
2388.654	Peak	46.99	5.12	52.11	74.00	-21.89
2390.000	Average	33.56	5.18	38.74	54.00	-15.26
2390.000	Peak	44.34	5.18	49.52	74.00	-24.48

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2412 MHz 26/0

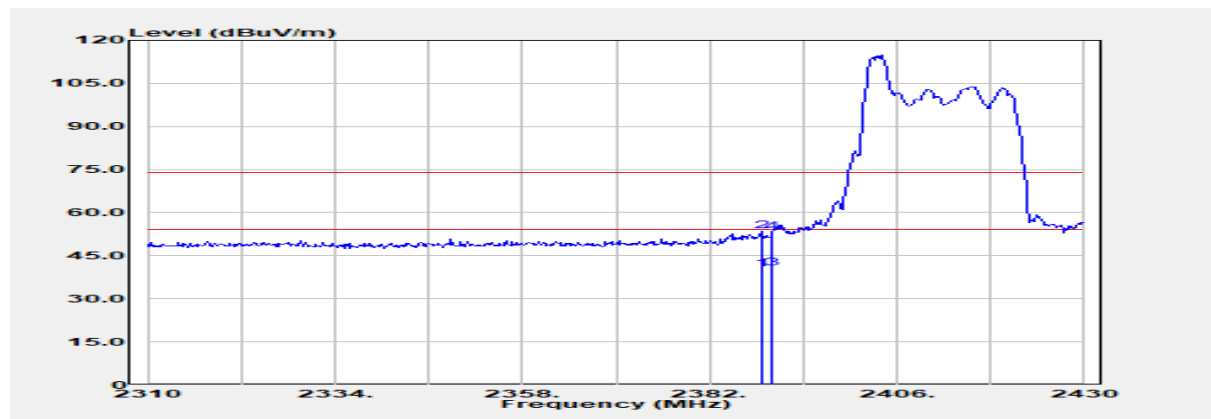
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.654	Average	35.27	5.12	40.39	54.00	-13.61
2388.654	Peak	48.52	5.12	53.64	74.00	-20.36
2390.000	Average	35.34	5.18	40.52	54.00	-13.48
2390.000	Peak	48.14	5.18	53.32	74.00	-20.68

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2412 MHz 106/53

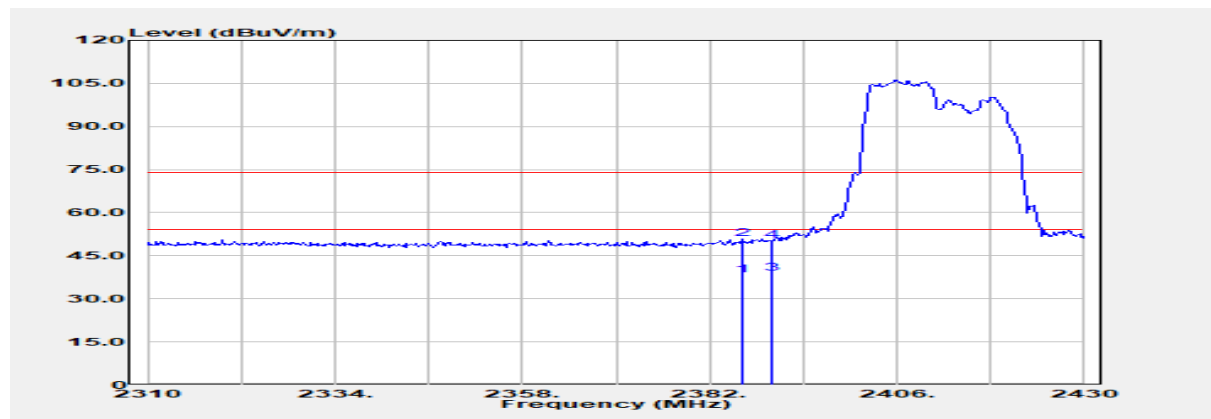
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.154	Average	33.23	5.01	38.24	54.00	-15.76
2386.154	Peak	45.95	5.01	50.96	74.00	-23.04
2390.000	Average	33.51	5.18	38.69	54.00	-15.31
2390.000	Peak	45.10	5.18	50.28	74.00	-23.72

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2412 MHz 106/53

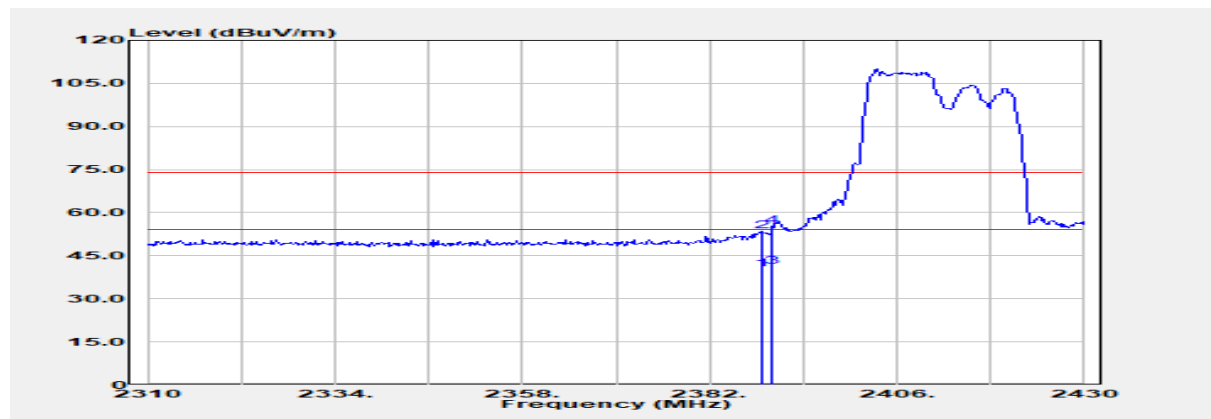
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.654	Average	35.24	5.12	40.36	54.00	-13.64
2388.654	Peak	48.36	5.12	53.48	74.00	-20.52
2390.000	Average	35.89	5.18	41.07	54.00	-12.93
2390.000	Peak	50.18	5.18	55.36	74.00	-18.64

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2462 MHz Full Ru

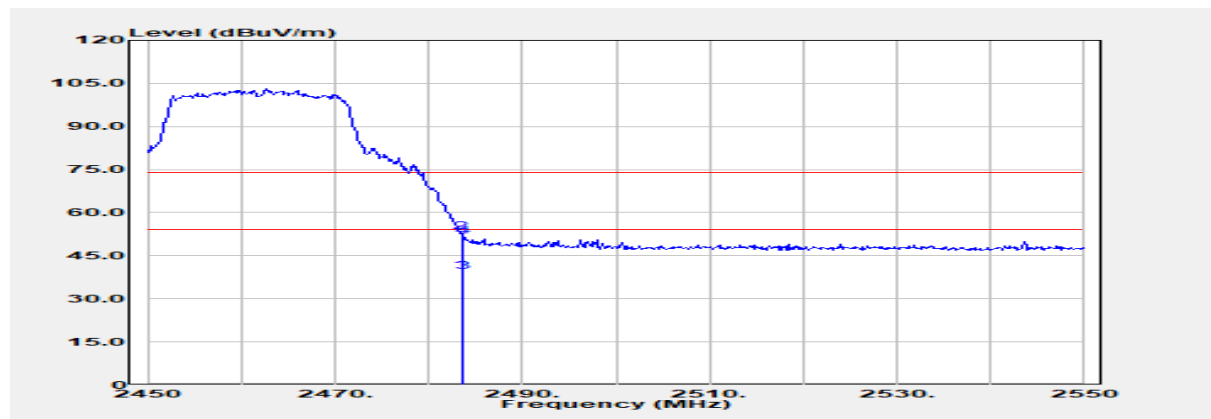
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	35.77	4.04	39.81	54.00	-14.19
2483.500	Peak	49.15	4.04	53.19	74.00	-20.81
2483.654	Average	35.34	4.03	39.37	54.00	-14.63
2483.654	Peak	47.84	4.03	51.87	74.00	-22.13

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2462 MHz Full Ru

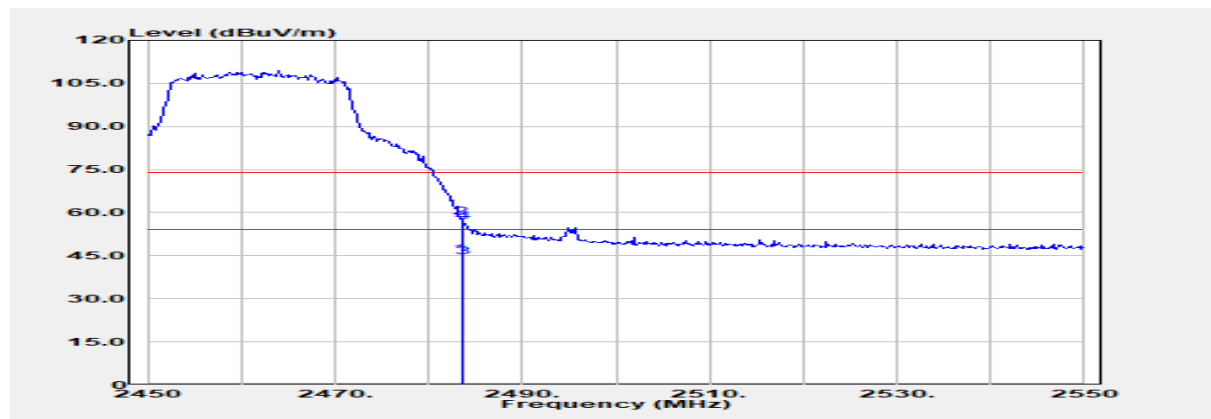
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	41.36	4.04	45.40	54.00	-8.60
2483.500	Peak	54.37	4.04	58.40	74.00	-15.60
2483.654	Average	40.47	4.03	44.50	54.00	-9.50
2483.654	Peak	52.88	4.03	56.92	74.00	-17.08

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2462 MHz 26/8

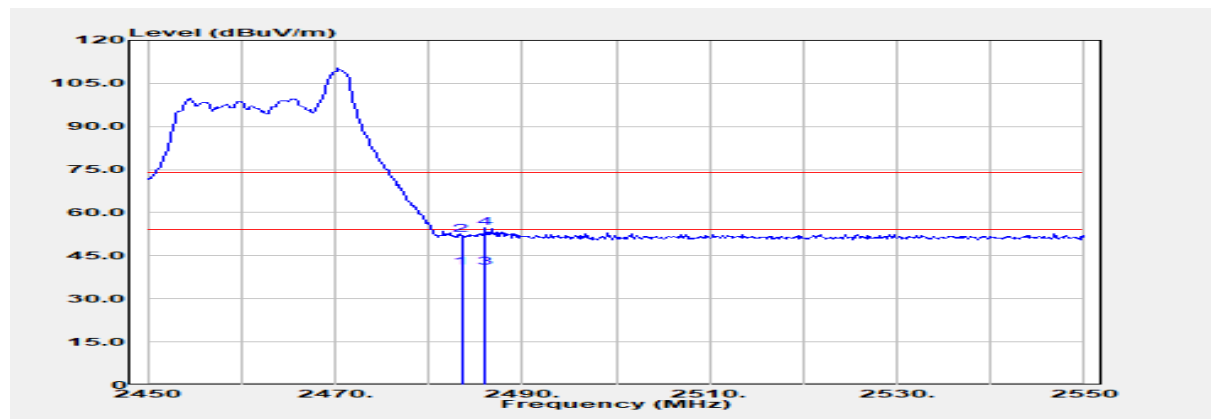
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	36.82	4.04	40.86	54.00	-13.14
2483.500	Peak	48.21	4.04	52.25	74.00	-21.75
2486.058	Average	36.82	4.01	40.83	54.00	-13.17
2486.058	Peak	50.59	4.01	54.60	74.00	-19.40

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2462 MHz 26/8

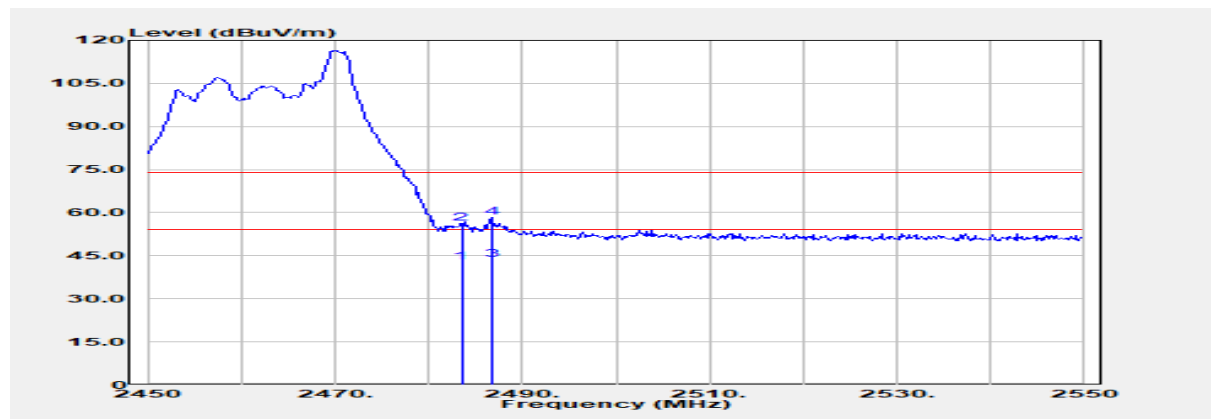
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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	38.57	4.04	42.61	54.00	-11.39
2483.500	Peak	52.23	4.04	56.26	74.00	-17.74
2486.699	Average	39.46	4.01	43.47	54.00	-10.53
2486.699	Peak	54.20	4.01	58.21	74.00	-15.79

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2462 MHz 106/54

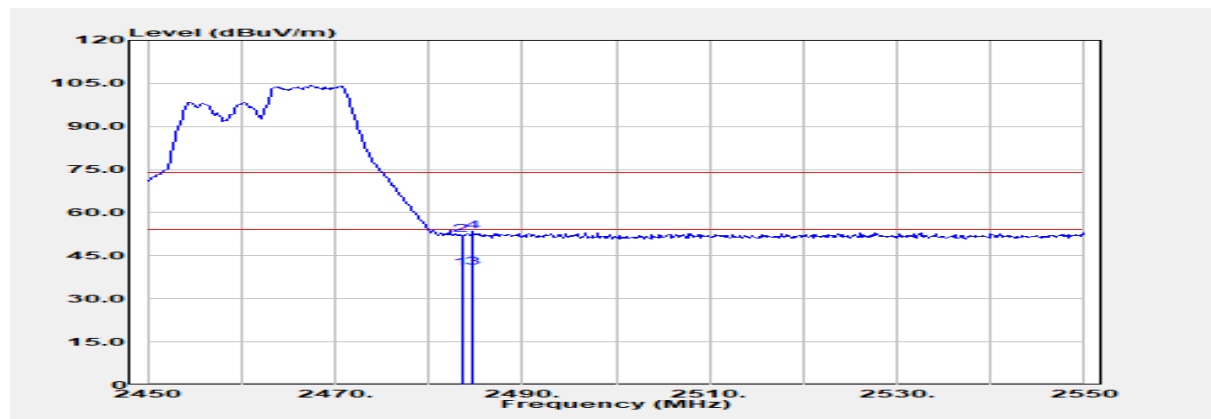
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	36.70	4.04	40.74	54.00	-13.26
2483.500	Peak	48.36	4.04	52.39	74.00	-21.61
2484.776	Average	36.91	4.02	40.93	54.00	-13.07
2484.776	Peak	49.44	4.02	53.46	74.00	-20.54

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-21

Test Frequency :2462 MHz 106/54

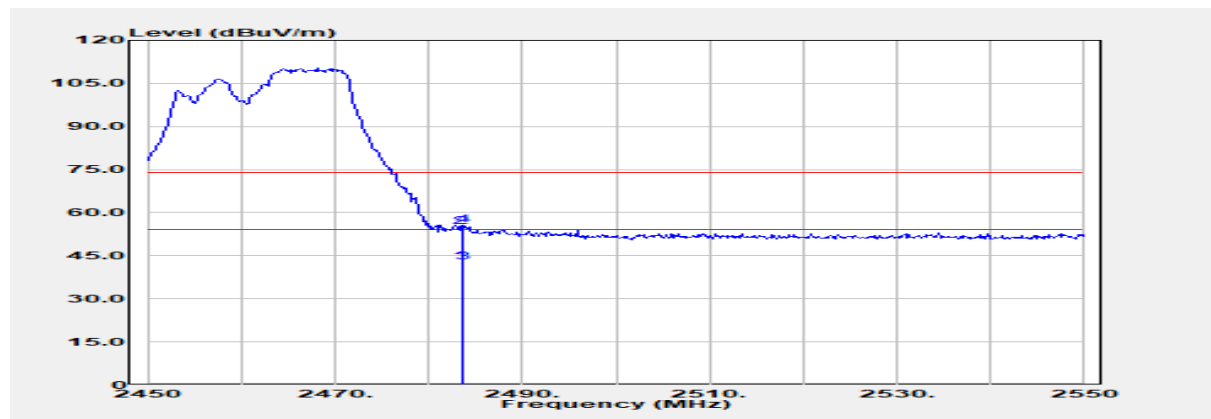
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



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	38.75	4.04	42.79	54.00	-11.21
2483.500	Peak	51.13	4.04	55.16	74.00	-18.84
2483.654	Average	38.67	4.03	42.70	54.00	-11.30
2483.654	Peak	51.67	4.03	55.70	74.00	-18.30

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax40

Test Date :2022-04-21

Test Frequency :2422 MHz Full Ru

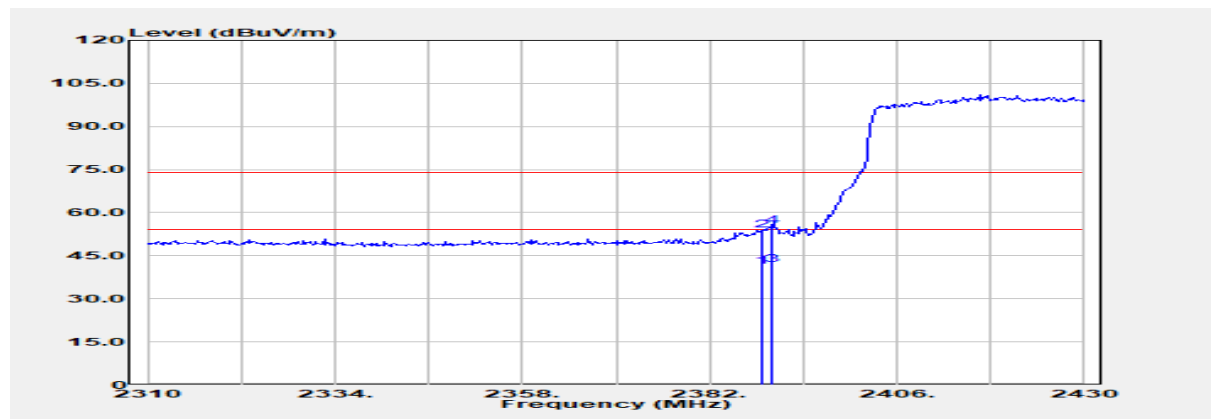
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.654	Average	36.14	5.12	41.26	54.00	-12.74
2388.654	Peak	48.83	5.12	53.95	74.00	-20.05
2390.000	Average	36.69	5.18	41.87	54.00	-12.13
2390.000	Peak	50.13	5.18	55.31	74.00	-18.69

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax40

Test Date :2022-04-21

Test Frequency :2422 MHz Full Ru

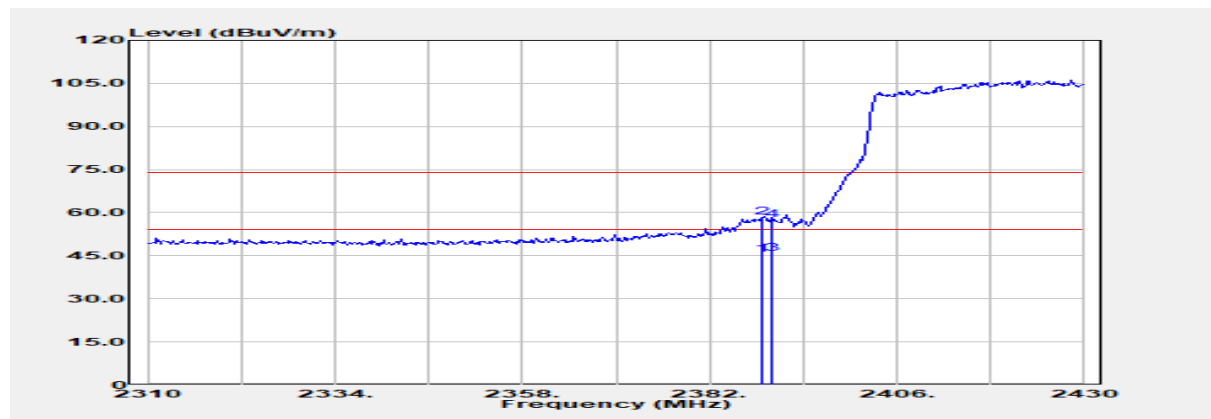
Temp./Humi. :21.8/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.654	Average	40.30	5.12	45.42	54.00	-8.58
2388.654	Peak	53.10	5.12	58.22	74.00	-15.78
2390.000	Average	40.61	5.18	45.79	54.00	-8.21
2390.000	Peak	52.12	5.18	57.30	74.00	-16.70

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax40

Test Date :2022-04-21

Test Frequency :2452 MHz Full Ru

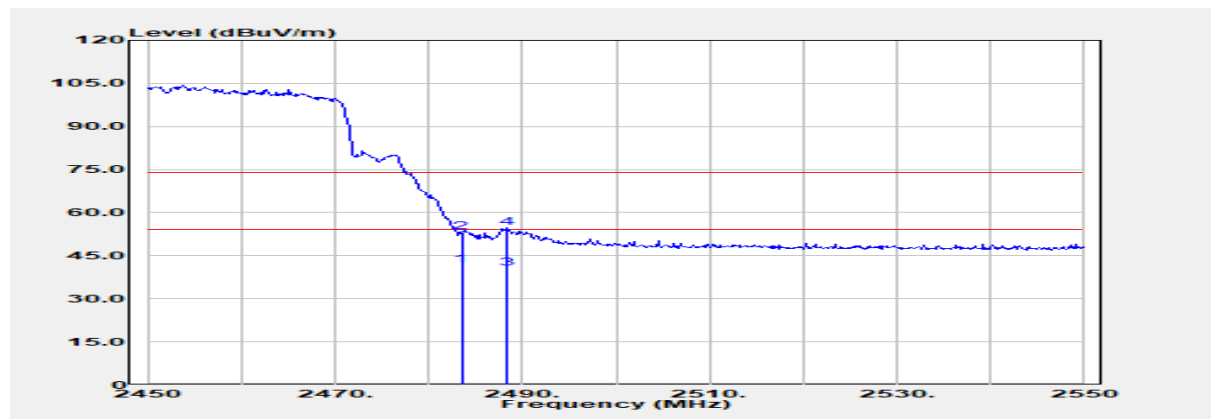
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	37.62	4.04	41.66	54.00	-12.34
2483.500	Peak	49.14	4.04	53.18	74.00	-20.82
2488.461	Average	36.53	3.99	40.52	54.00	-13.48
2488.461	Peak	50.62	3.99	54.61	74.00	-19.39

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Report Number :TERF2204000204E2

Test Site :SAC C

Operation Mode :802.11ax40

Test Date :2022-04-21

Test Frequency :2452 MHz Full Ru

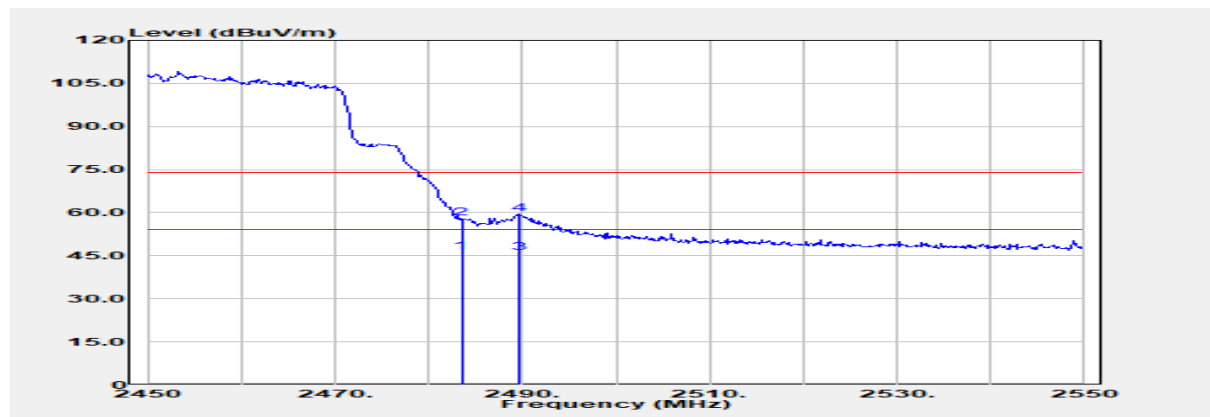
Temp./Humi. :21.8/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	42.43	4.04	46.47	54.00	-7.53
2483.500	Peak	53.95	4.04	57.98	74.00	-16.02
2489.583	Average	41.97	3.98	45.95	54.00	-8.05
2489.583	Peak	55.70	3.98	59.68	74.00	-14.32

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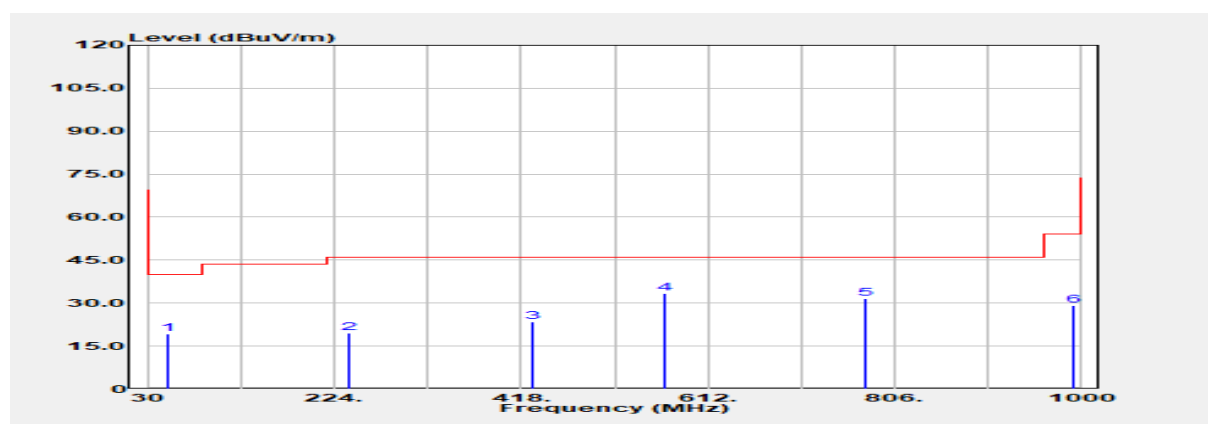
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8.6.2 Spurious Emission:

NB

Report Number :TERF2204000204E2
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane
 Ant :MIMO

Test Site :SAC C
 Test Date :2022-04-22
 Temp./Humi. :21.8/68
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
50.208	Peak	35.15	-15.79	19.37	40.00	-20.63
238.301	Peak	37.16	-17.57	19.59	46.00	-26.41
429.503	Peak	35.23	-11.65	23.58	46.00	-22.42
566.298	Peak	42.20	-8.68	33.52	46.00	-12.48
776.154	Peak	35.84	-4.29	31.55	46.00	-14.45
990.673	Peak	30.66	-1.41	29.24	54.00	-24.76

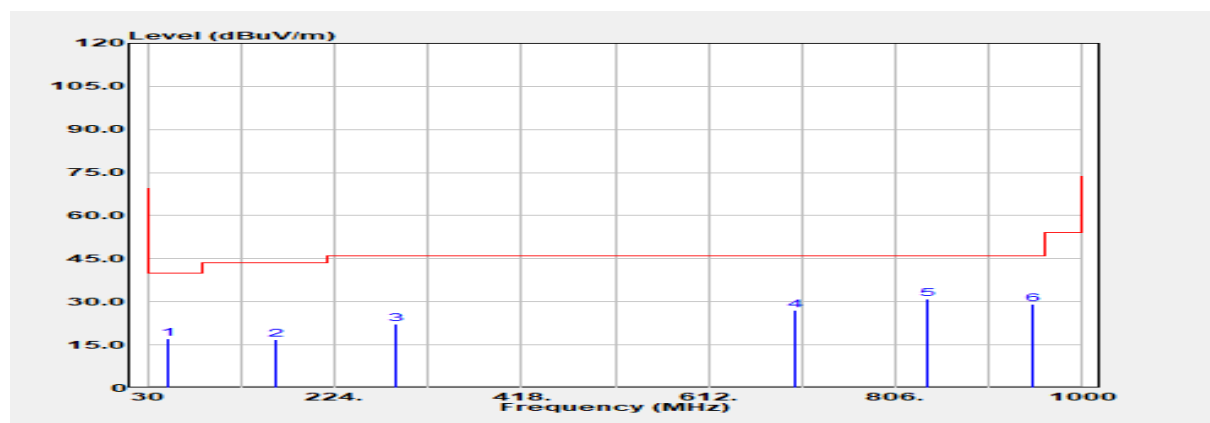
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-22
Temp./Humi. :21.8/68
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
51.763	Peak	32.94	-15.77	17.17	40.00	-22.83
163.686	Peak	33.01	-16.09	16.92	43.50	-26.58
286.490	Peak	37.78	-15.63	22.14	46.00	-23.86
701.539	Peak	33.86	-6.72	27.14	46.00	-18.86
839.888	Peak	34.37	-3.26	31.11	46.00	-14.89
948.702	Peak	31.07	-1.78	29.30	46.00	-16.70

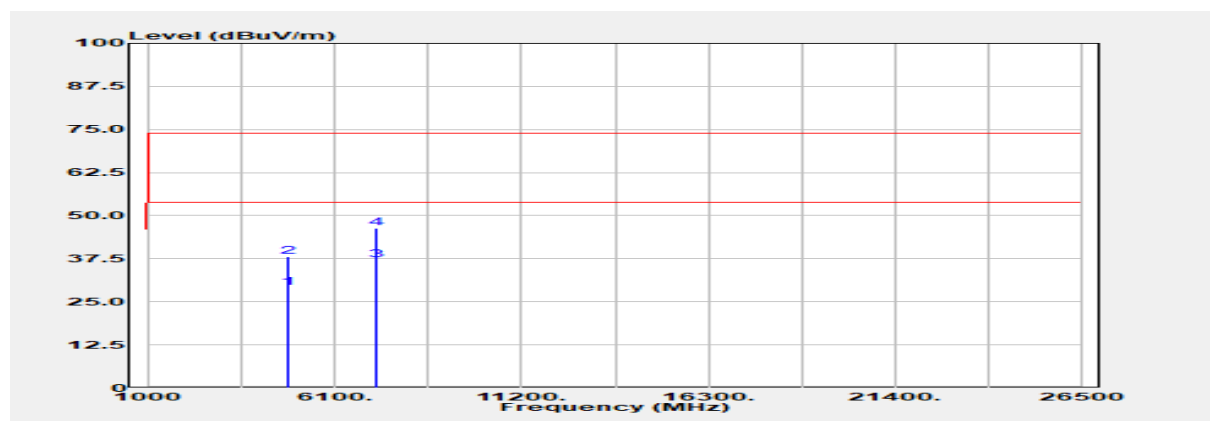
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Report Number :TERF2204000204E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :NB Plane
 Ant :MIMO

Test Site :SAC C
 Test Date :2022-05-03
 Temp./Humi. :23.3/58
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	19.60	9.50	29.10	54.00	-24.90
4824.000	Peak	28.58	9.50	38.08	74.00	-35.92
7236.000	Average	19.30	17.91	37.21	54.00	-16.79
7236.000	Peak	28.35	17.91	46.27	74.00	-27.73

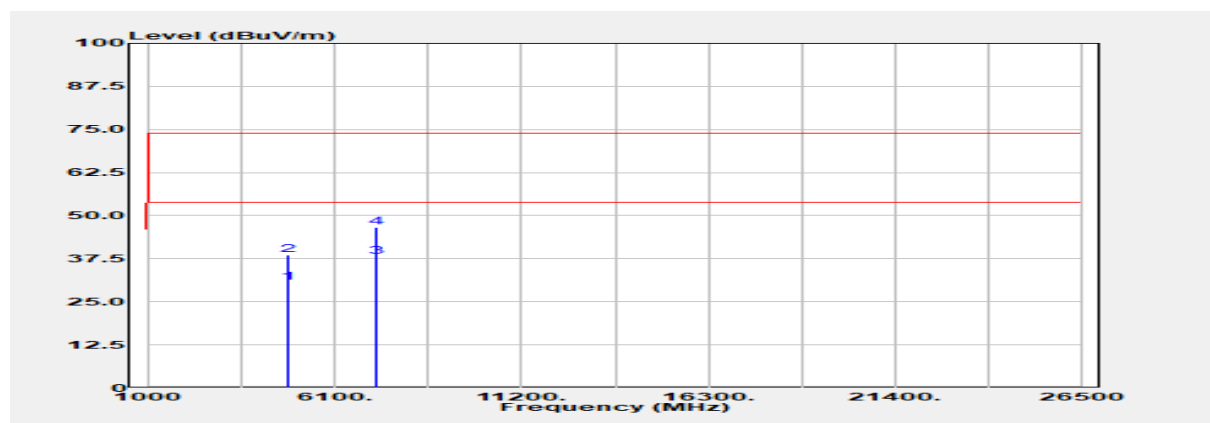
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :TX CH LOW
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	21.10	9.50	30.60	54.00	-23.40
4824.000	Peak	29.16	9.50	38.66	74.00	-35.34
7236.000	Average	20.16	17.91	38.07	54.00	-15.93
7236.000	Peak	28.81	17.91	46.72	74.00	-27.28

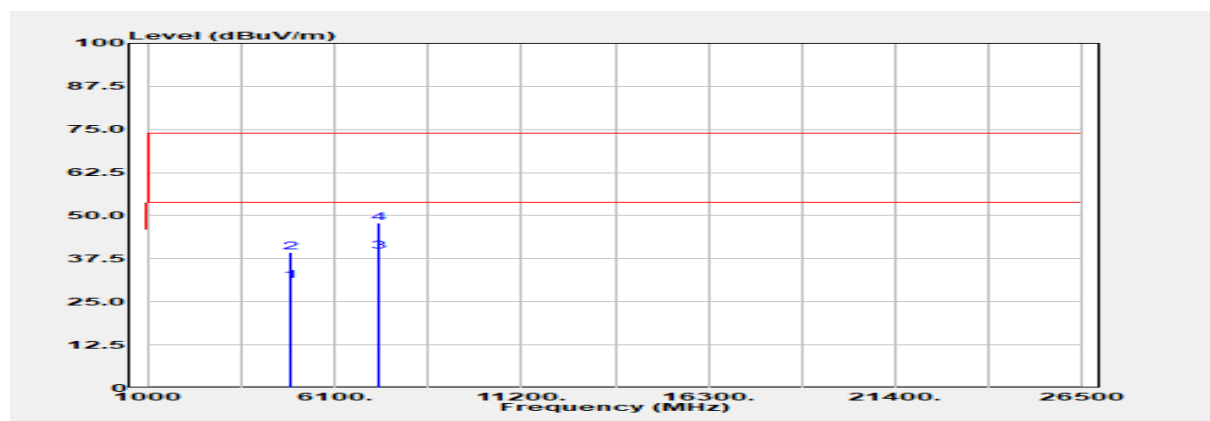
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	21.66	9.33	30.99	54.00	-23.01
4874.000	Peak	29.96	9.33	39.30	74.00	-34.70
7311.000	Average	21.46	18.23	39.69	54.00	-14.31
7311.000	Peak	29.69	18.23	47.91	74.00	-26.09

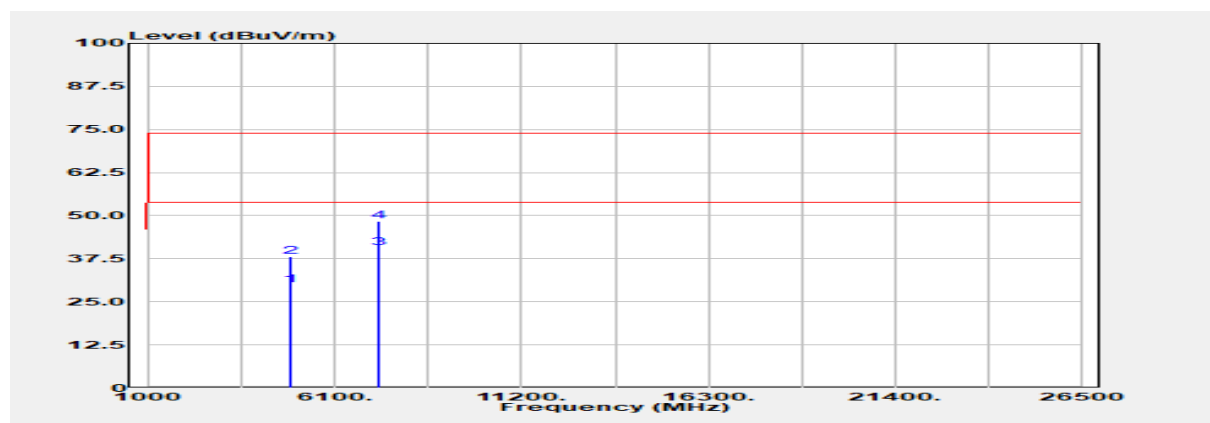
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	20.43	9.33	29.76	54.00	-24.24
4874.000	Peak	28.65	9.33	37.99	74.00	-36.01
7311.000	Average	22.33	18.23	40.56	54.00	-13.44
7311.000	Peak	30.15	18.23	48.38	74.00	-25.62

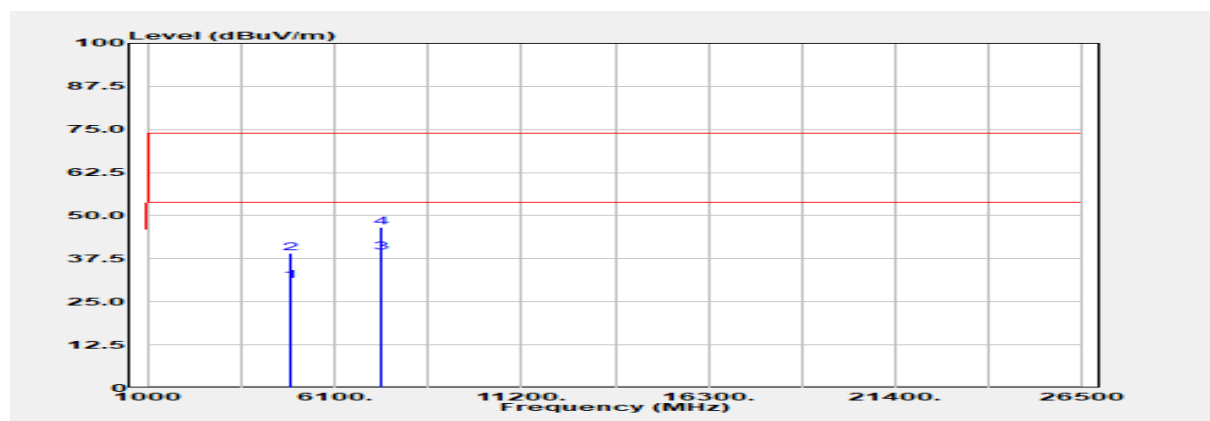
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	21.43	9.62	31.05	54.00	-22.95
4924.000	Peak	29.51	9.62	39.13	74.00	-34.87
7386.000	Average	20.88	18.46	39.34	54.00	-14.66
7386.000	Peak	28.08	18.46	46.54	74.00	-27.46

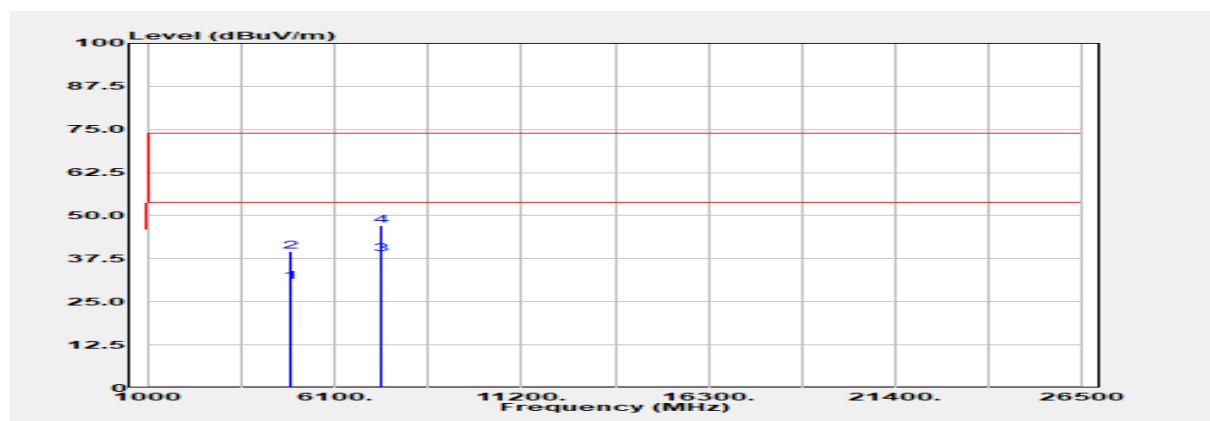
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	21.33	9.62	30.95	54.00	-23.05
4924.000	Peak	29.92	9.62	39.54	74.00	-34.46
7386.000	Average	20.51	18.46	38.97	54.00	-15.03
7386.000	Peak	28.77	18.46	47.23	74.00	-26.77

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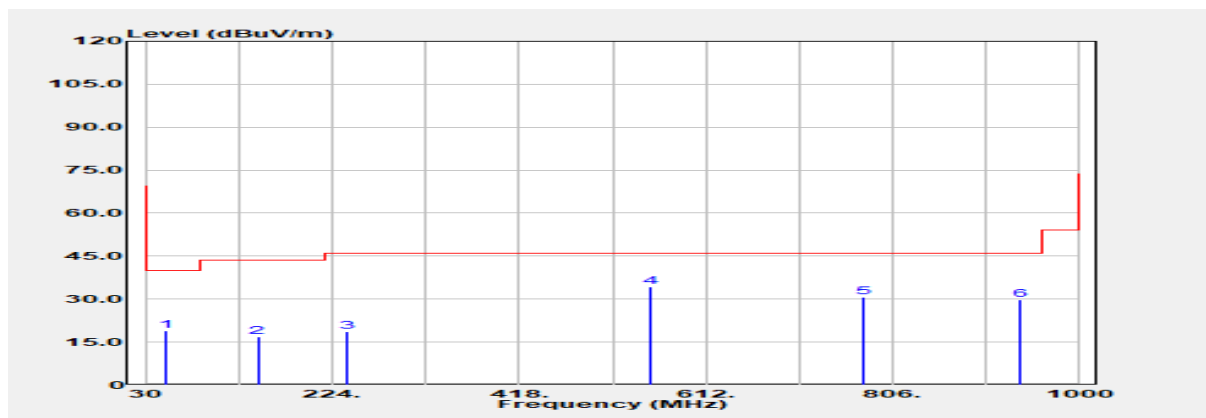
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TB

Report Number :TERF2204000204E2
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane
 Ant :MIMO

Test Site :SAC C
 Test Date :2022-04-21
 Temp./Humi. :21.8/68
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
51.763	Peak	34.57	-15.77	18.80	40.00	-21.20
146.587	Peak	32.94	-16.17	16.77	43.50	-26.73
239.856	Peak	35.94	-17.43	18.51	46.00	-27.49
553.862	Peak	43.56	-9.31	34.25	46.00	-11.75
776.154	Peak	35.04	-4.29	30.75	46.00	-15.25
937.821	Peak	31.56	-1.88	29.69	46.00	-16.31

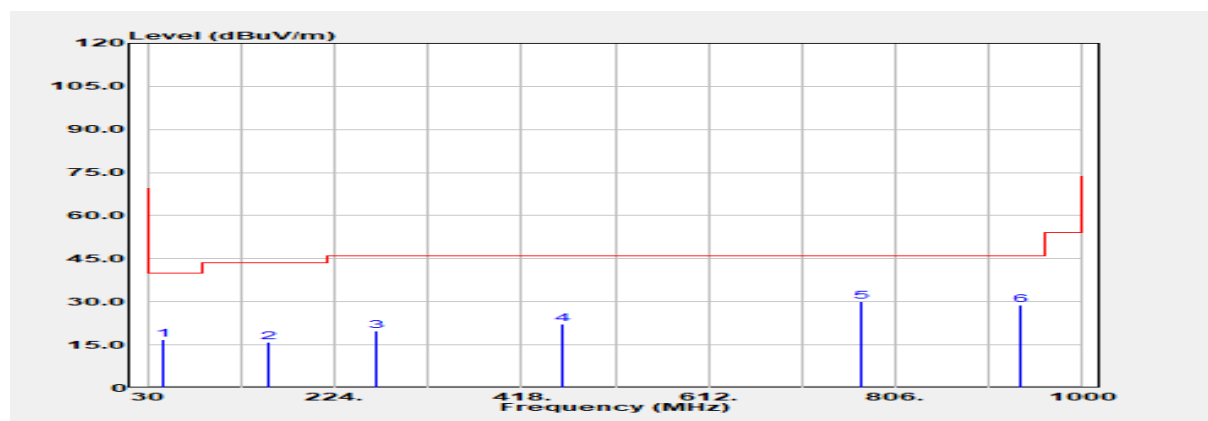
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-21
Temp./Humi. :21.8/68
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
47.099	Peak	32.83	-15.99	16.84	40.00	-23.16
155.914	Peak	31.86	-15.93	15.92	43.50	-27.58
267.837	Peak	35.94	-16.20	19.73	46.00	-26.27
460.593	Peak	33.20	-11.06	22.14	46.00	-23.86
769.936	Peak	35.19	-5.02	30.18	46.00	-15.82
936.266	Peak	30.78	-1.89	28.89	46.00	-17.11

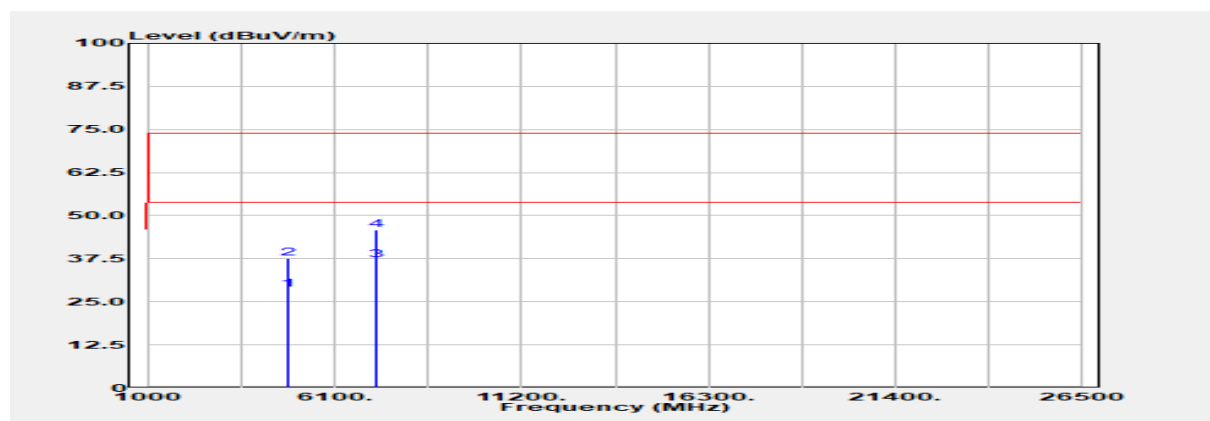
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :TX CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	19.10	9.50	28.60	54.00	-25.40
4824.000	Peak	28.13	9.50	37.63	74.00	-36.37
7236.000	Average	19.20	17.91	37.11	54.00	-16.89
7236.000	Peak	27.85	17.91	45.76	74.00	-28.24

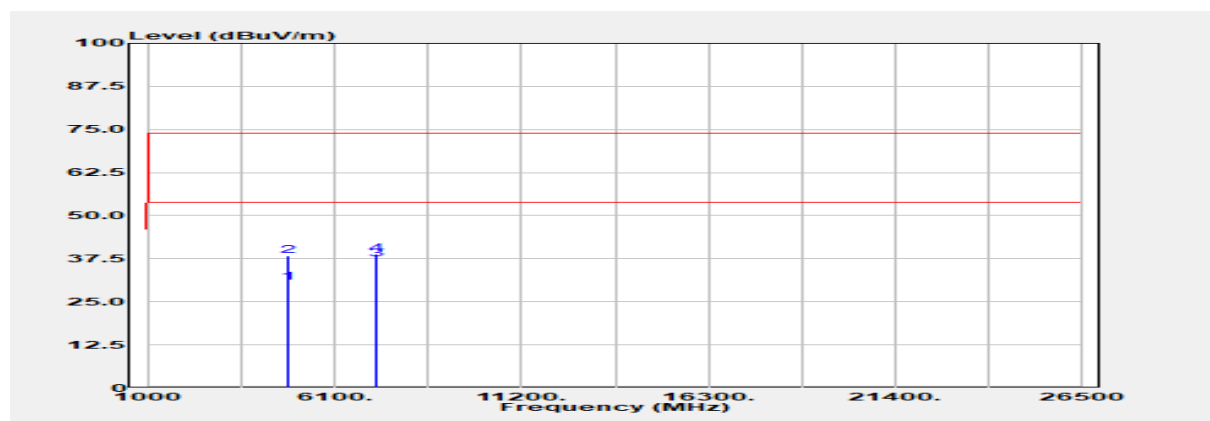
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :TX CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	21.05	9.50	30.55	54.00	-23.45
4824.000	Peak	28.84	9.50	38.34	74.00	-35.66
7236.000	Average	19.46	17.91	37.37	54.00	-16.63
7236.000	Peak	21.03	17.91	38.94	74.00	-35.06

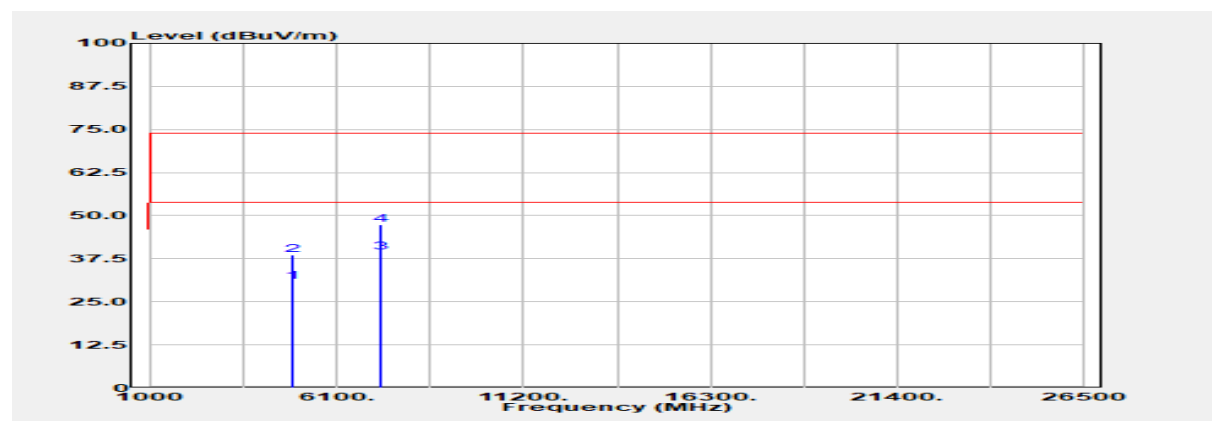
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	21.43	9.33	30.76	54.00	-23.24
4874.000	Peak	29.36	9.33	38.69	74.00	-35.31
7311.000	Average	21.20	18.23	39.43	54.00	-14.57
7311.000	Peak	29.17	18.23	47.40	74.00	-26.60

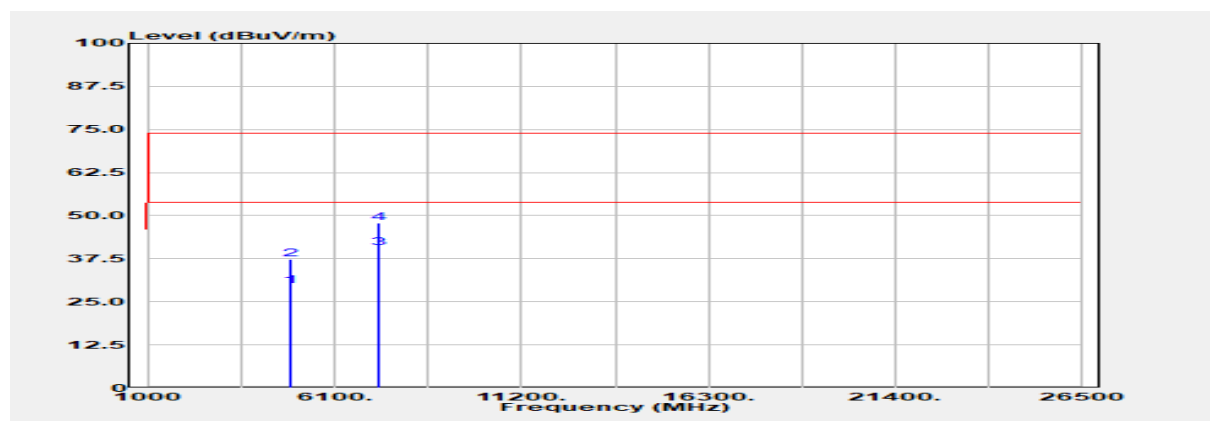
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	20.12	9.33	29.45	54.00	-24.55
4874.000	Peak	28.13	9.33	37.46	74.00	-36.54
7311.000	Average	22.40	18.23	40.63	54.00	-13.37
7311.000	Peak	29.55	18.23	47.78	74.00	-26.22

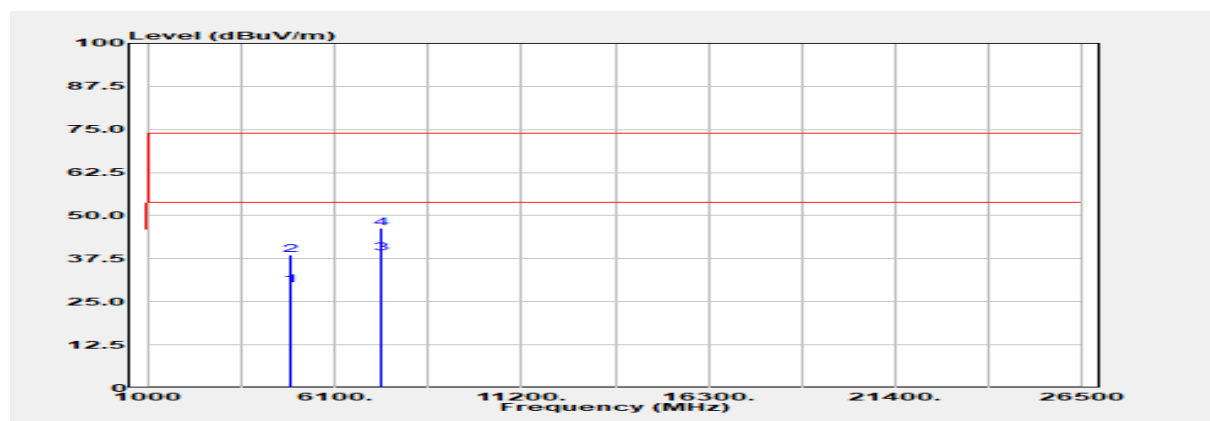
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :TX CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	20.33	9.62	29.95	54.00	-24.05
4924.000	Peak	29.01	9.62	38.63	74.00	-35.37
7386.000	Average	20.54	18.46	39.00	54.00	-15.00
7386.000	Peak	27.94	18.46	46.40	74.00	-27.60

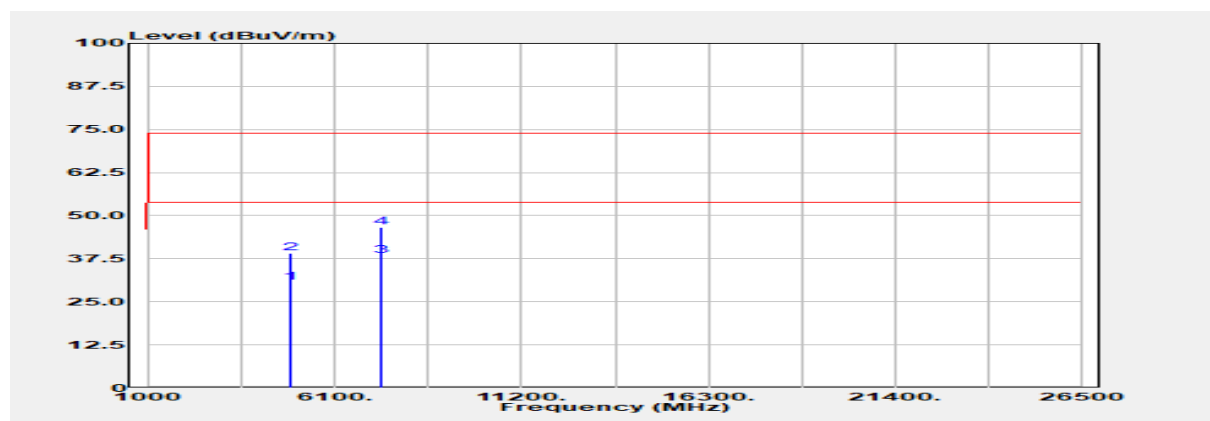
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Report Number :TERF2204000204E2
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :TX CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-05-03
Temp./Humi. :23.3/58
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	20.86	9.62	30.48	54.00	-23.52
4924.000	Peak	29.43	9.62	39.05	74.00	-34.95
7386.000	Average	20.01	18.46	38.47	54.00	-15.53
7386.000	Peak	28.24	18.46	46.70	74.00	-27.30

~ End of Report ~

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