

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Flex Pocket

Brand Name: Clover

Model No.: C407

Model Difference: N/A

Report Number: TERF2405001304E2

FCC ID HFS-C407

IC: 1787B-C407

Date of EUT Received: May 7, 2024

Date of Test: May 7, 2024 ~ May 28, 2024

Issue Date: June 18, 2024

Approved By _____**Jay Lin****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
TERF2405001304E2	00	Original.	June 18, 2024	Karen Huang	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Clover Flex Pocket
Brand Name:	Clover
Model No.:	C407
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C047UG41450106
Power Supply:	3.8Vdc with rechargeable Li-ion polymer battery
Test Software (Name/Version)	QRCT V4.0

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	11.13	9.04	DSSS
802.11g	2412~2462	11	16.18	11.47	OFDM
802.11n_HT20	2412~2462	11	16.16	11.29	OFDM
802.11n_HT40	2422~2452	7	19.16	13.45	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n			
Data Rate:		802.11b: 1/2/5.5/11 Mbps			
		802.11g: 6/9/12/18/24/36/48/54 Mbps			
		802.11n_HT20: up to 72.2Mbps			
		802.11n_HT40: up to 150Mbps			

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WLAN 2.4GHz for IC

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Rated Power in dBm (EIRP)	Modulation Technology
			Peak	Avg.		
802.11b	2412~2462	11	11.13	9.04	7.93	DSSS
802.11g	2412~2462	11	16.18	11.47	10.36	OFDM
802.11n_HT20	2412~2462	11	16.16	11.29	10.18	OFDM
802.11n_HT40	2422~2452	7	19.16	13.45	12.34	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS in 802.11b				
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n				
Data Rate:		802.11b: 1/2/5.5/11 Mbps				
		802.11g: 6/9/12/18/24/36/48/54 Mbps				
		802.11n_HT20: up to 72.2Mbps				
		802.11n_HT40: up to 150Mbps				

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No..	Freq.	Peak Antenna Gain (dBi)
Dipole	AWAN	DQ60ALF0011	2.4GHz	-1.11

Note:

1. 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

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion 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 2		
		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.

2.4.2 For all conducted test items:

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

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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	PowerSync	CUBCEARA0015	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	P0003858	N/A	N/A
Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	N/A	N/A	N/A
USB Cable	Qionho	USB-C100	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.209 §15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

2400~2483.5 MHz			
20MHz		40MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447		
9	2452		
10	2457		
11	2462		

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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								Single Transmission Spatial		Multi Transmission Spatial	
V	802.11 b	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
V	802.11 g	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
V	802.11 n	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		1TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX		1TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		1TX		1TX

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.

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	ch0
802.11g	1 to 11	1,6,11	OFDM	6	ch0
802.11n_HT20	1 to 11	1,6,11	OFDM	MCS0	ch0
802.11n_HT40	3 to 9	3,6,9	OFDM	MCS0	ch0

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	11	DSSS	1	ch0
802.11g	1 to 11	11	OFDM	6	ch0
802.11n_HT20	1 to 11	11	OFDM	MCS0	ch0
802.11n_HT40	3 to 9	6	OFDM	MCS0	ch0

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	11	DSSS	1	ch0
802.11g	1 to 11	11	OFDM	6	ch0
802.11n_HT20	1 to 11	11	OFDM	MCS0	ch0
802.11n_HT40	3 to 9	6	OFDM	MCS0	ch0

Note:

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

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

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 F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/15/2023	06/14/2024
Power Meter	Anritsu	ML2496A	1326001	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315048	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315049	08/22/2023	08/21/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF22	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF153	11/15/2023	11/14/2024

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	11/02/2023	11/01/2024
Horn Antenna	Schwarzbeck	BBHA9170	185	08/21/2023	08/20/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17388/4	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024

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

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f (886-2) 2298-0488

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

7.1.1 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.

7.1.2 FCC

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

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

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

7.1.3 ISSED

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

Note:

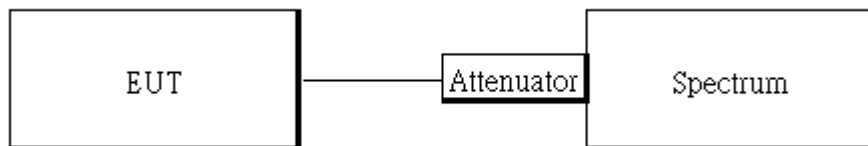
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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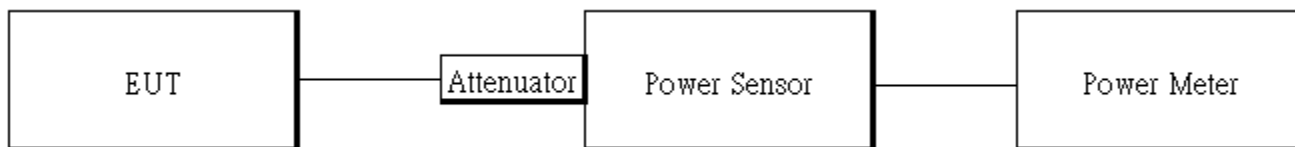
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7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power:



7.3 Measurement Procedure

7.3.1 Duty Cycle:

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

7.3.2 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.

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

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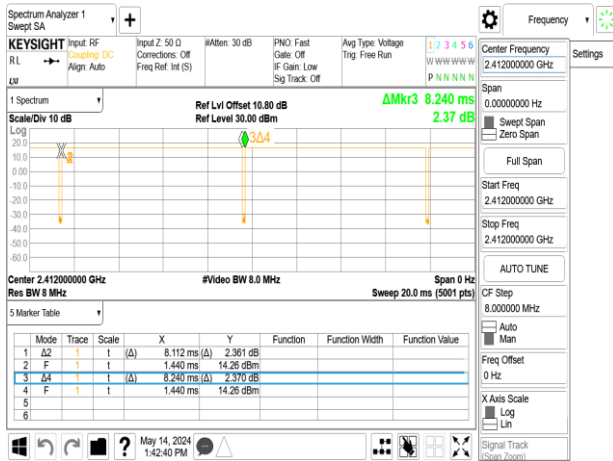
7.4 Measurement Result

7.4.1 Duty Cycle:

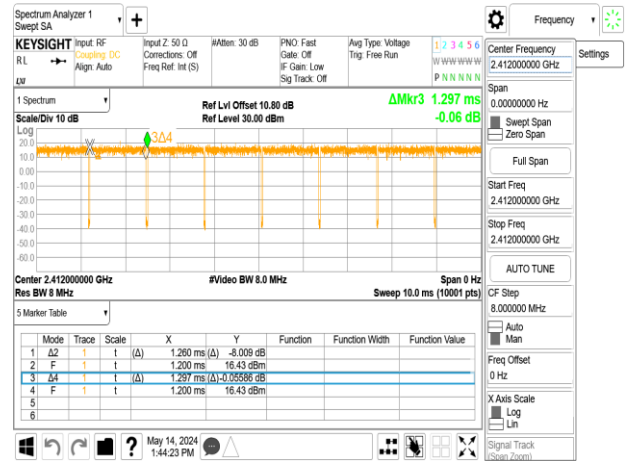
Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	98.45	0.07	0.12	0.01
802.11g	97.32	0.12	0.74	1.00
802.11n_20	97.15	0.13	0.79	1.00
802.11n_40	92.49	0.34	1.59	2.00

7.4.2 Duty Cycle test plots

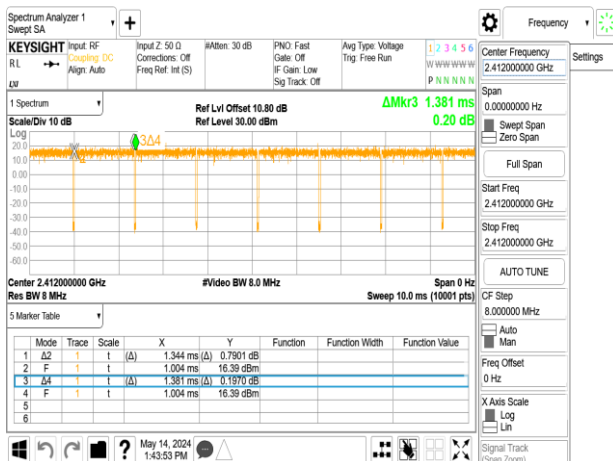
802.11b_20MHz_Chain0_2412MHz



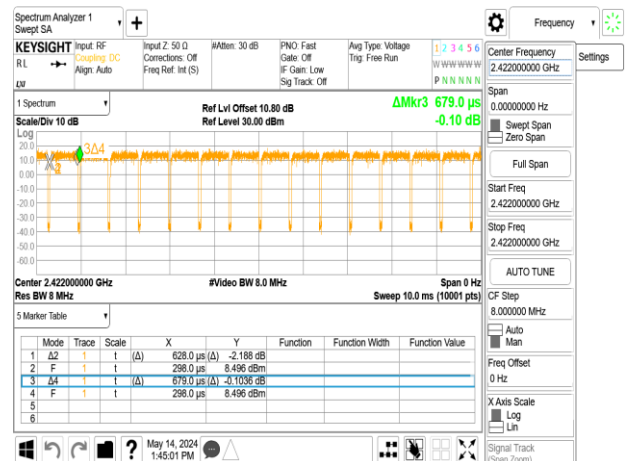
802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_40MHz_Chain0_2422MHz



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7.4.3 Output Power

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	7.5	9.81	30.00	PASS
6	2437	1	5.5	8.26	30.00	PASS
11	2462	1	8	11.13	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	7.5	7.60	30.00	PASS
6	2437	1	5.5	6.05	30.00	PASS
11	2462	1	8	9.04	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	10	14.68	30.00	PASS
6	2437	6	10	14.89	30.00	PASS
11	2462	6	11	16.18	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	10	10.14	30.00	PASS
6	2437	6	10	10.29	30.00	PASS
11	2462	6	11	11.47	30.00	PASS

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802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10	15.02	30.00	PASS
6	2437	MCS0	10	14.96	30.00	PASS
11	2462	MCS0	11	16.16	30.00	PASS
802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10	10.28	30.00	PASS
6	2437	MCS0	10	10.20	30.00	PASS
11	2462	MCS0	11	11.29	30.00	PASS

802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10	17.15	30.00	PASS
6	2437	MCS0	12.5	19.16	30.00	PASS
9	2452	MCS0	11.5	18.95	30.00	PASS
802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10	10.82	30.00	PASS
6	2437	MCS0	12.5	13.45	30.00	PASS
9	2452	MCS0	11.5	12.77	30.00	PASS

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802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	7.60	-1.11	6.49	36	PASS
6	2437	1	6.05	-1.11	4.94	36	PASS
11	2462	1	9.04	-1.11	7.93	36	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	10.14	-1.11	9.03	36	PASS
6	2437	6	10.29	-1.11	9.18	36	PASS
11	2462	6	11.47	-1.11	10.36	36	PASS

802.11n_HT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10.28	-1.11	9.17	36	PASS
6	2437	MCS0	10.20	-1.11	9.09	36	PASS
11	2462	MCS0	11.29	-1.11	10.18	36	PASS

802.11n_HT_40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10.82	-1.11	9.71	36	PASS
6	2437	MCS0	13.45	-1.11	12.34	36	PASS
9	2452	MCS0	12.77	-1.11	11.66	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:

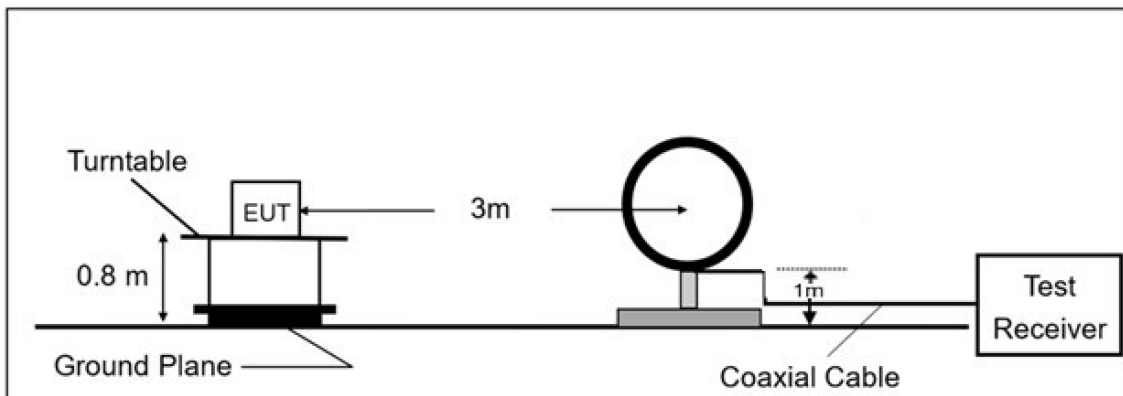
1. The lower limit shall apply at the transition frequencies.

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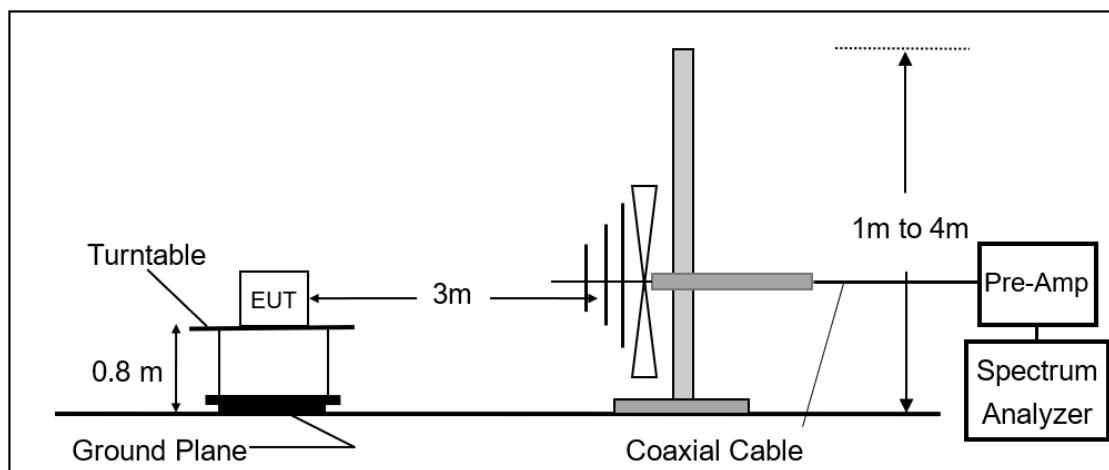
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8.2 Test Setup

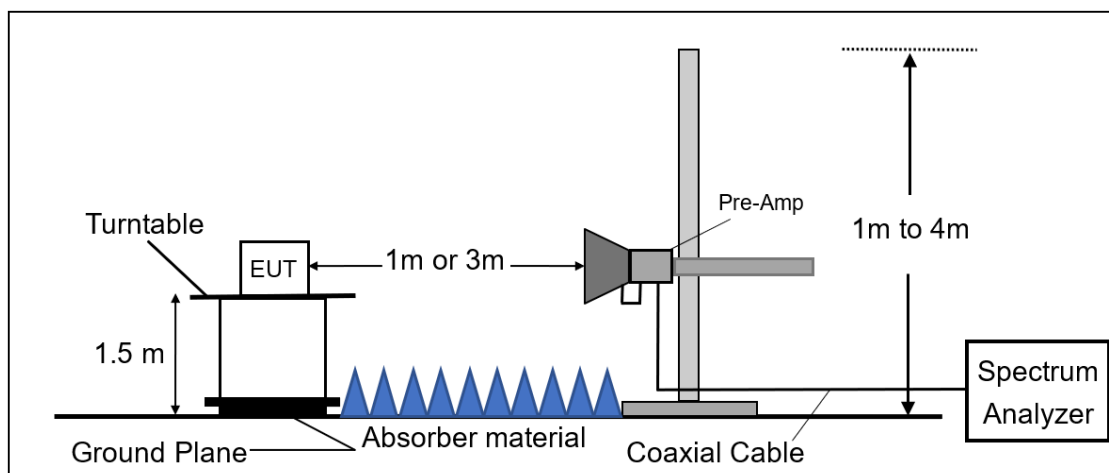
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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.

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

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

Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2024-05-22

Test Frequency :2462 MHz

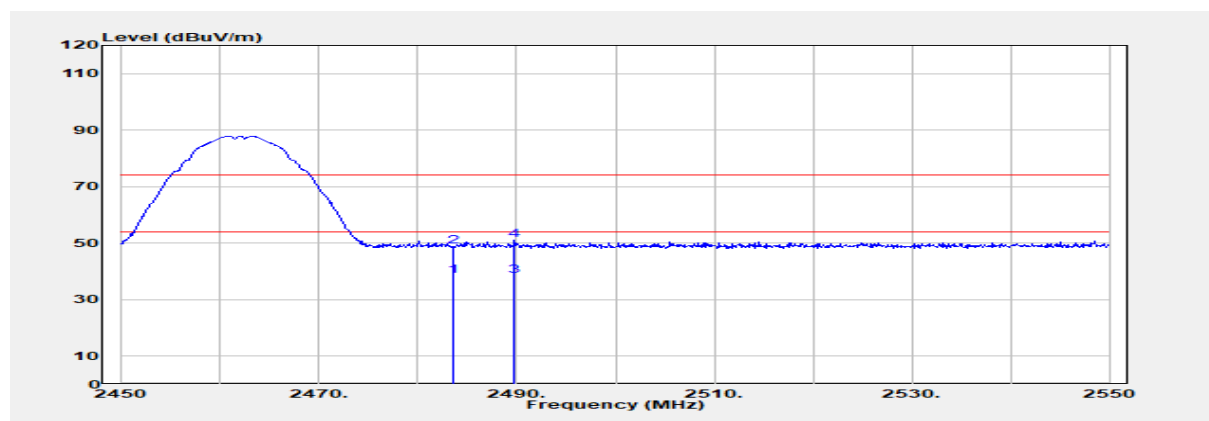
Temp./Humi. :24.8°C/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



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	42.24	-3.82	38.42	54.00	-15.58
2483.500	Peak	52.63	-3.82	48.81	74.00	-25.19
2489.800	Average	42.20	-3.76	38.44	54.00	-15.56
2489.800	Peak	54.73	-3.76	50.97	74.00	-23.03

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2024-05-22

Test Frequency :2462 MHz

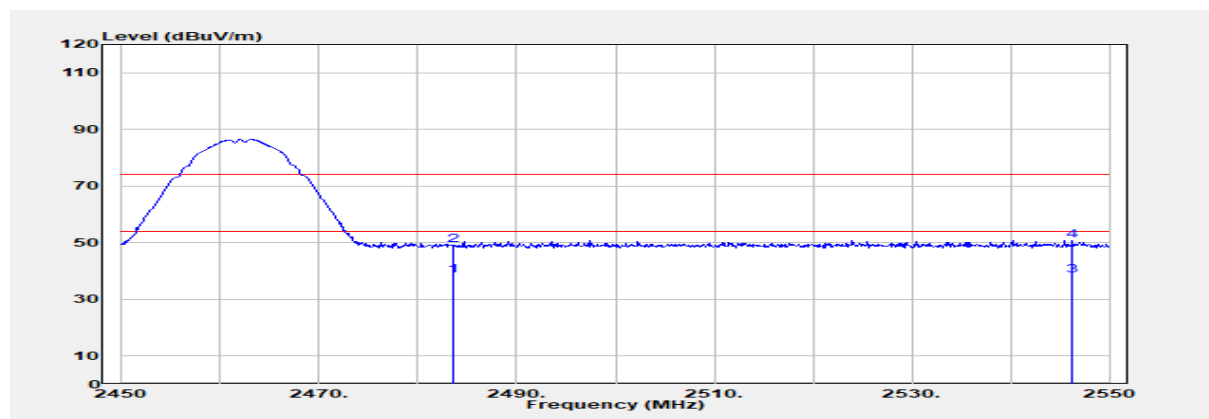
Temp./Humi. :24.8°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



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	42.12	-3.82	38.30	54.00	-15.70
2483.500	Peak	52.93	-3.82	49.11	74.00	-24.89
2546.300	Average	42.03	-3.63	38.41	54.00	-15.59
2546.300	Peak	54.50	-3.63	50.87	74.00	-23.13

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2024-05-22

Test Frequency :2462 MHz

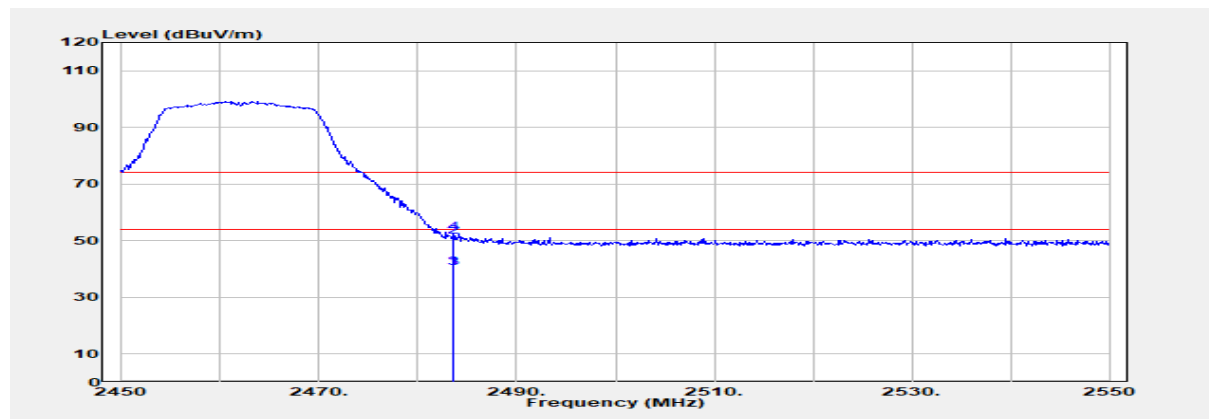
Temp./Humi. :24.8°C/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.27	-3.82	40.45	54.00	-13.55
2483.500	Peak	55.25	-3.82	51.43	74.00	-22.57
2483.600	Average	44.22	-3.82	40.40	54.00	-13.60
2483.600	Peak	56.56	-3.82	52.74	74.00	-21.26

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2024-05-22

Test Frequency :2462 MHz

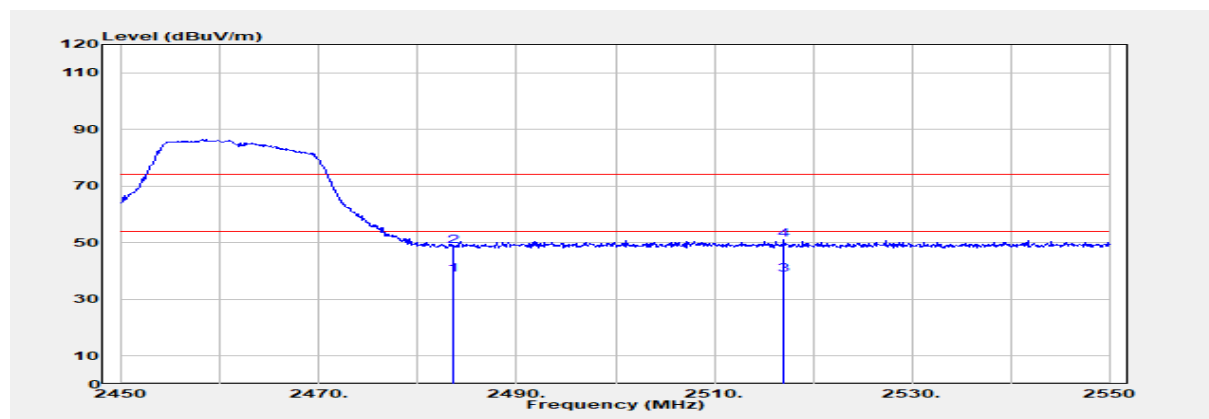
Temp./Humi. :24.8°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



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	42.48	-3.82	38.66	54.00	-15.34
2483.500	Peak	52.73	-3.82	48.91	74.00	-25.09
2517.100	Average	42.35	-3.64	38.71	54.00	-15.29
2517.100	Peak	54.58	-3.64	50.94	74.00	-23.06

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-05-22

Test Frequency :2462 MHz

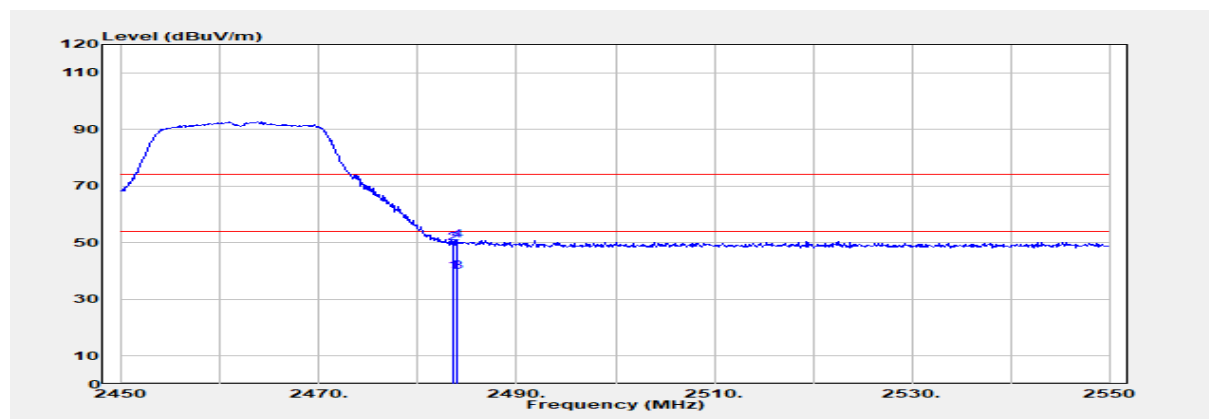
Temp./Humi. :24.8°C/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



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	43.53	-3.82	39.71	54.00	-14.29
2483.500	Peak	53.51	-3.82	49.69	74.00	-24.31
2484.000	Average	43.37	-3.81	39.56	54.00	-14.44
2484.000	Peak	54.66	-3.81	50.84	74.00	-23.16

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-05-22

Test Frequency :2462 MHz

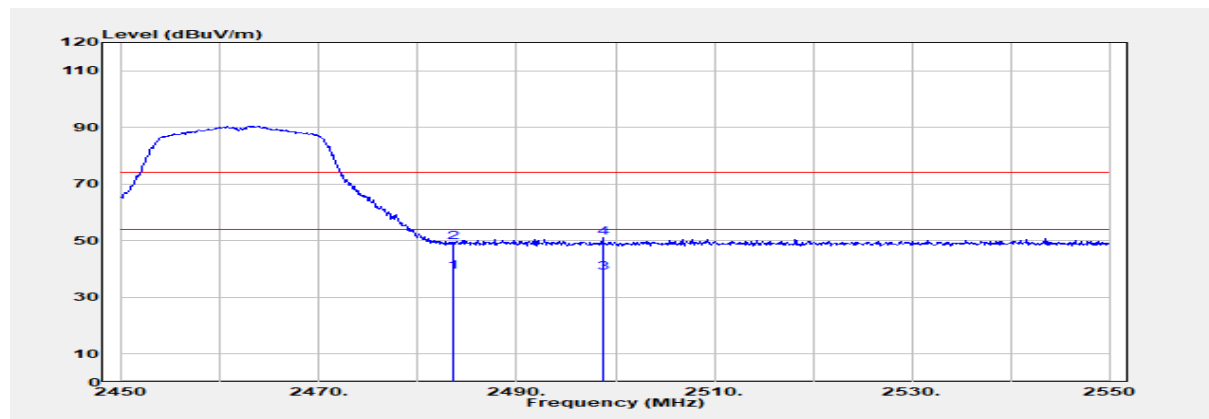
Temp./Humi. :24.8°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



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	42.96	-3.82	39.14	54.00	-14.86
2483.500	Peak	53.40	-3.82	49.58	74.00	-24.42
2498.700	Average	42.51	-3.66	38.85	54.00	-15.15
2498.700	Peak	54.81	-3.66	51.15	74.00	-22.85

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-05-28

Test Frequency :2452 MHz

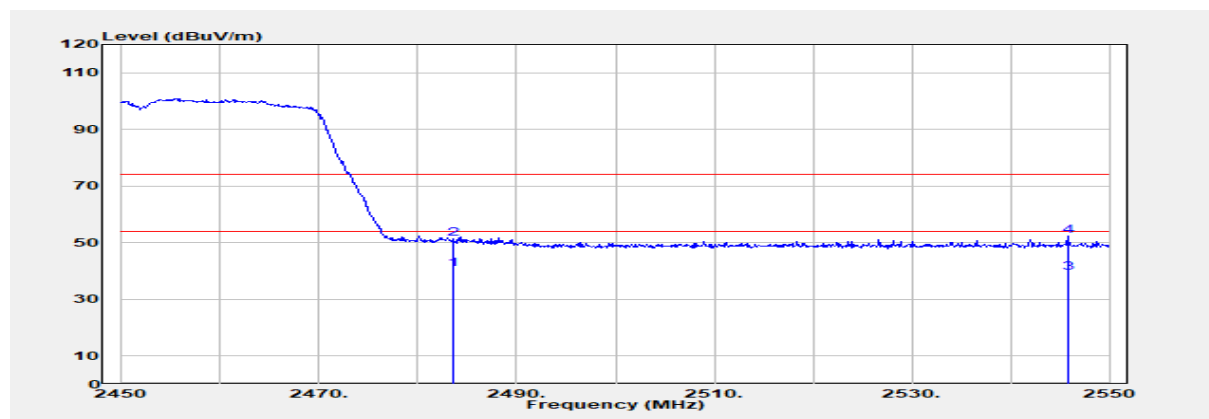
Temp./Humi. :24°C/61%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.39	-3.82	40.57	54.00	-13.43
2483.500	Peak	55.27	-3.82	51.45	74.00	-22.55
2545.800	Average	42.96	-3.63	39.33	54.00	-14.67
2545.800	Peak	56.11	-3.63	52.49	74.00	-21.51

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-05-28

Test Frequency :2452 MHz

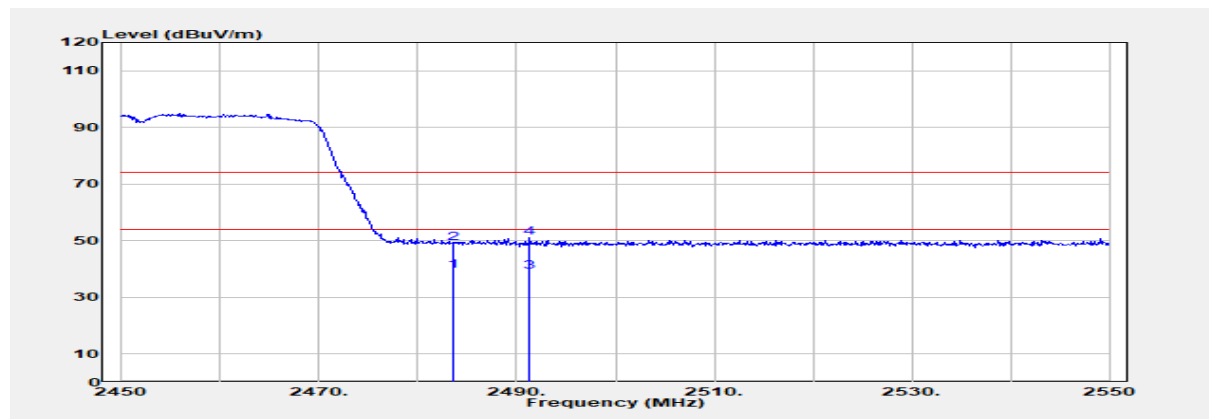
Temp./Humi. :24°C/61%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



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	43.32	-3.82	39.50	54.00	-14.50
2483.500	Peak	53.03	-3.82	49.21	74.00	-24.79
2491.300	Average	42.84	-3.74	39.10	54.00	-14.90
2491.300	Peak	54.82	-3.74	51.08	74.00	-22.92

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8.6.2 Spurious Emission:

Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2024-05-22

Test Frequency :2462 MHz

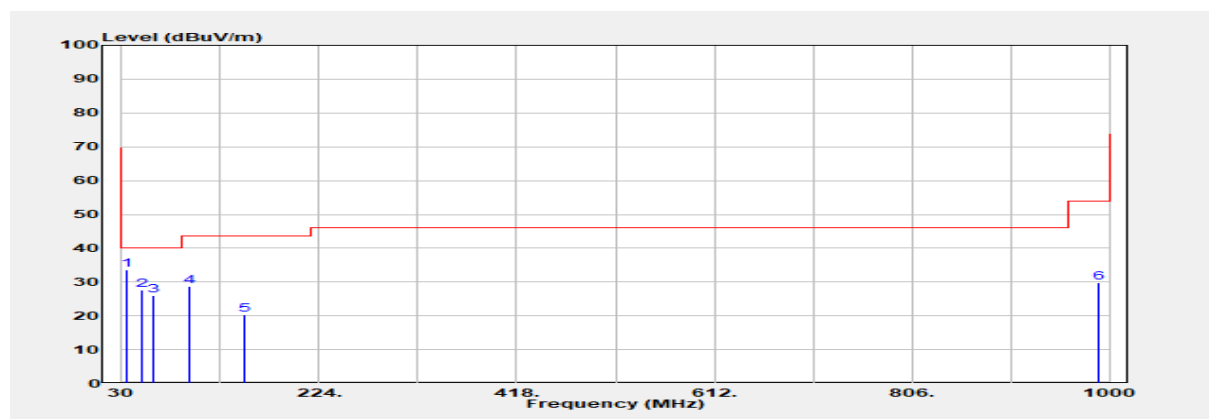
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



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
34.850	Peak	50.75	-17.21	33.54	40.00	-6.46
49.400	Peak	42.79	-15.26	27.54	40.00	-12.46
61.040	Peak	43.00	-16.92	26.08	40.00	-13.92
96.930	Peak	49.77	-21.01	28.76	43.50	-14.74
150.280	Peak	35.89	-15.53	20.36	43.50	-23.14
990.300	Peak	30.27	-0.52	29.75	54.00	-24.25

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2024-05-22

Test Frequency :2462 MHz

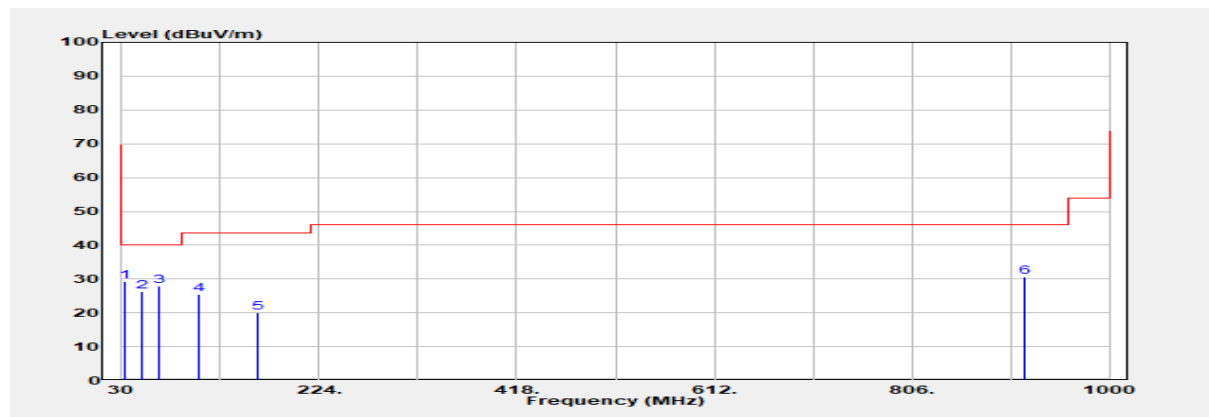
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
32.910	Peak	46.73	-17.55	29.18	40.00	-10.82
50.370	Peak	41.58	-15.26	26.32	40.00	-13.68
65.890	Peak	45.77	-17.99	27.78	40.00	-12.22
106.630	Peak	45.24	-19.64	25.60	43.50	-17.90
162.890	Peak	36.12	-15.96	20.16	43.50	-23.34
917.550	Peak	31.96	-1.40	30.56	46.00	-15.44

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2024-05-22

Test Frequency :2462 MHz

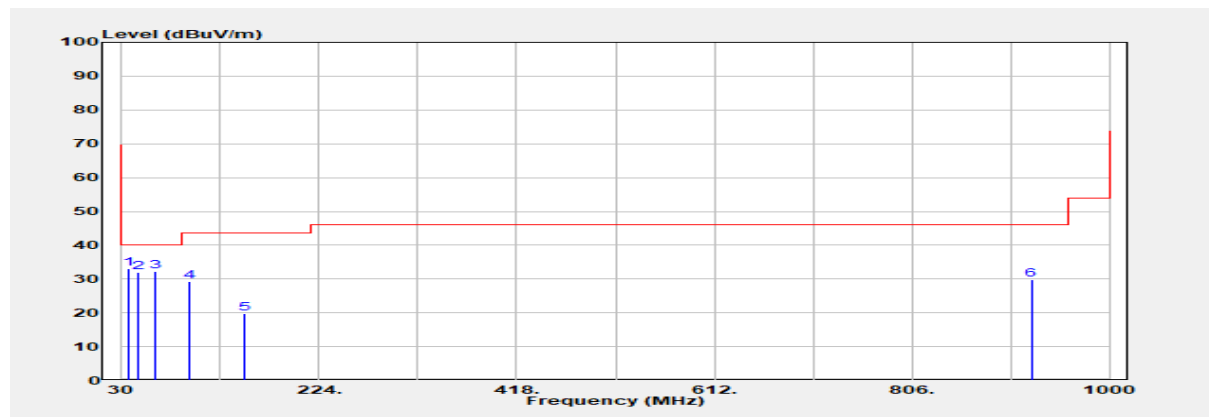
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
36.790	Peak	50.26	-17.19	33.07	40.00	-6.93
46.490	Peak	47.68	-15.61	32.08	40.00	-7.92
62.980	Peak	49.37	-17.24	32.13	40.00	-7.87
96.930	Peak	50.35	-21.01	29.34	43.50	-14.16
150.280	Peak	35.32	-15.53	19.79	43.50	-23.71
923.370	Peak	30.97	-1.20	29.77	46.00	-16.23

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2024-05-22

Test Frequency :2462 MHz

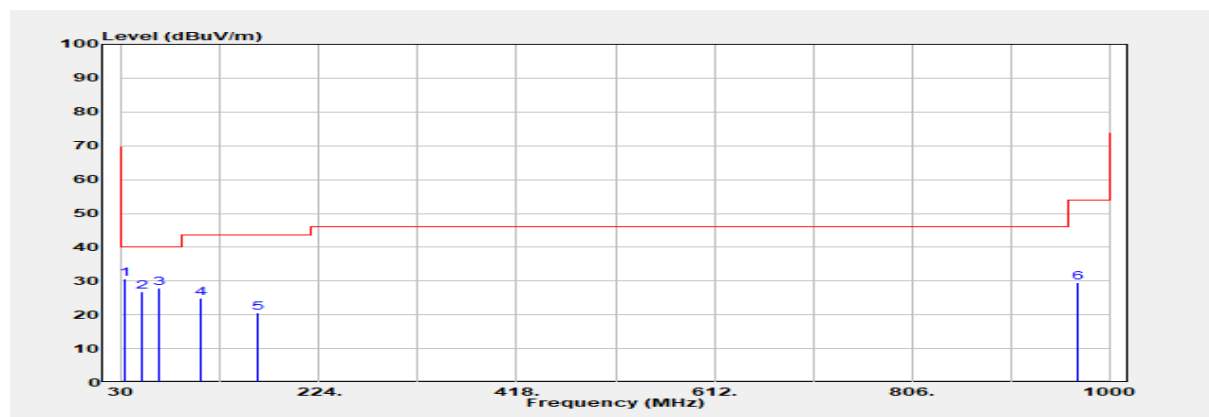
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
32.910	Peak	48.06	-17.55	30.51	40.00	-9.49
50.370	Peak	42.13	-15.26	26.87	40.00	-13.13
65.890	Peak	45.79	-17.99	27.80	40.00	-12.20
107.600	Peak	44.30	-19.50	24.80	43.50	-18.70
162.890	Peak	36.51	-15.96	20.55	43.50	-22.95
968.960	Peak	30.42	-0.96	29.45	54.00	-24.55

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-05-22

Test Frequency :2462 MHz

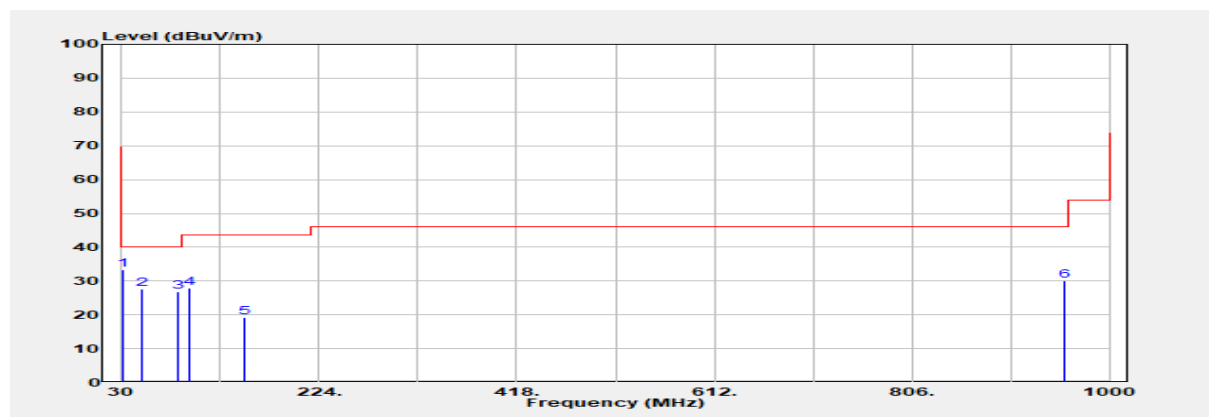
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



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
31.940	Peak	50.63	-17.25	33.38	40.00	-6.62
49.400	Peak	42.92	-15.26	27.66	40.00	-12.34
85.290	Peak	48.37	-21.56	26.81	40.00	-13.19
96.930	Peak	49.05	-21.01	28.04	43.50	-15.46
150.280	Peak	34.88	-15.53	19.35	43.50	-24.15
955.380	Peak	31.17	-1.18	29.99	46.00	-16.01

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-05-22

Test Frequency :2462 MHz

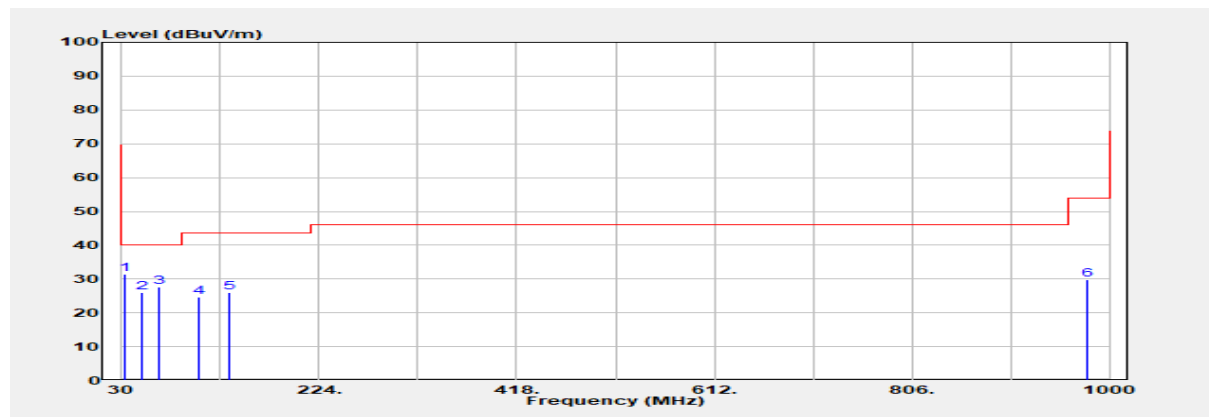
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
33.880	Peak	48.63	-17.28	31.34	40.00	-8.66
50.370	Peak	41.33	-15.26	26.08	40.00	-13.92
65.890	Peak	45.59	-17.99	27.60	40.00	-12.40
106.630	Peak	44.35	-19.64	24.71	43.50	-18.79
134.760	Peak	43.08	-17.06	26.02	43.50	-17.48
977.690	Peak	30.65	-0.81	29.84	54.00	-24.16

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-05-22

Test Frequency :2437 MHz

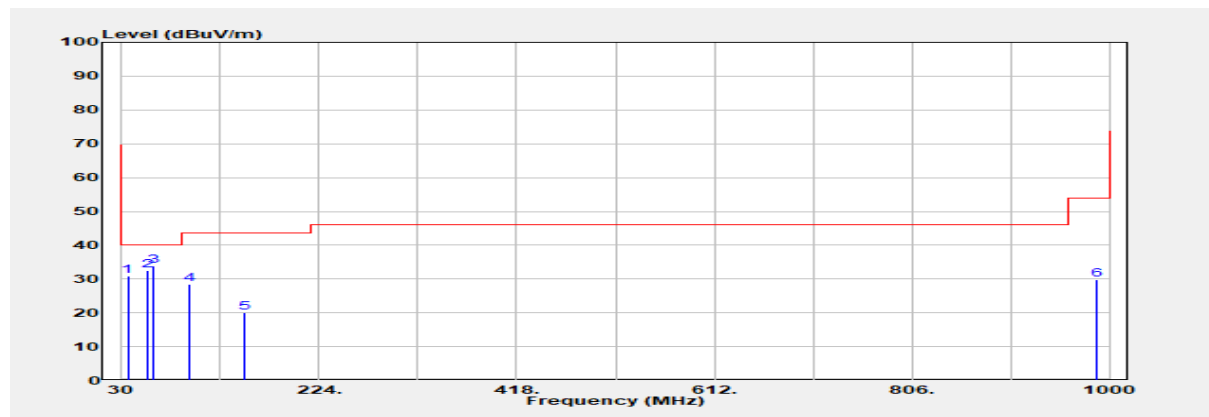
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.820	Peak	48.32	-17.41	30.91	40.00	-9.09
55.220	Peak	48.34	-15.90	32.44	40.00	-7.56
61.040	Peak	50.75	-16.92	33.83	40.00	-6.17
96.930	Peak	49.35	-21.01	28.35	43.50	-15.15
150.280	Peak	35.52	-15.53	19.99	43.50	-23.51
988.360	Peak	30.46	-0.54	29.92	54.00	-24.08

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-05-22

Test Frequency :2437 MHz

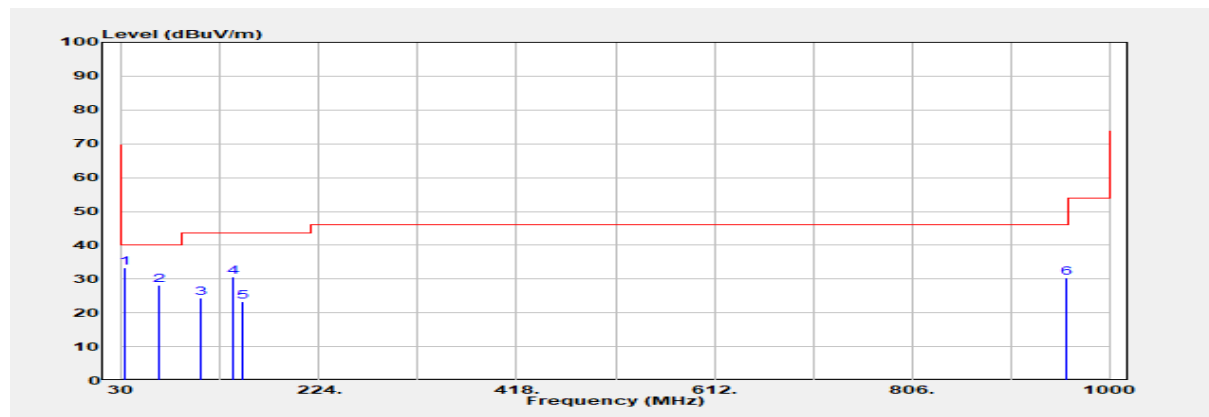
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
33.880	Peak	50.60	-17.28	33.32	40.00	-6.68
65.890	Peak	46.11	-17.99	28.12	40.00	-11.88
107.600	Peak	44.00	-19.50	24.50	43.50	-19.00
138.640	Peak	47.27	-16.70	30.57	43.50	-12.93
149.310	Peak	38.90	-15.70	23.20	43.50	-20.30
957.320	Peak	31.48	-1.19	30.29	46.00	-15.71

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2024-05-22

Test Frequency :2462 MHz

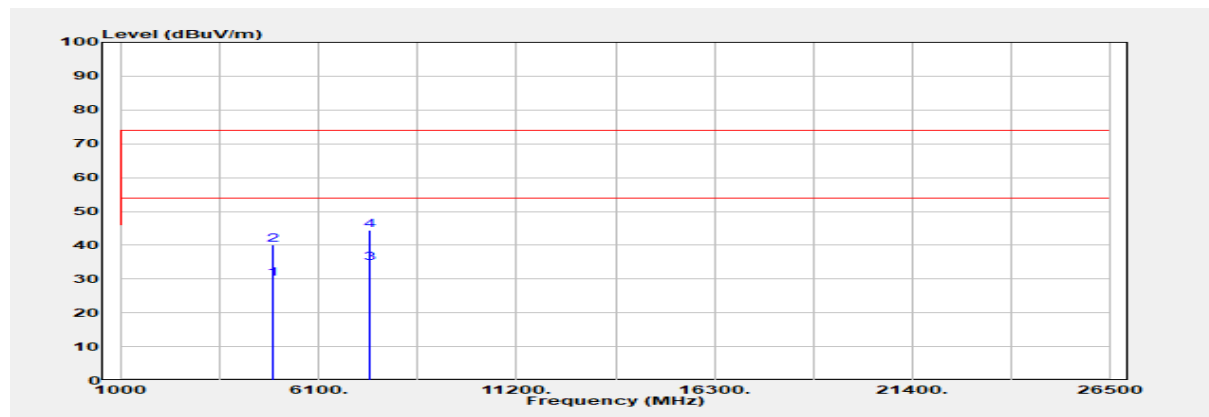
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



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
4924.000	Average	29.56	0.49	30.05	54.00	-23.95
4924.000	Peak	39.53	0.49	40.02	74.00	-33.98
7386.000	Average	28.51	6.20	34.71	54.00	-19.29
7386.000	Peak	38.17	6.20	44.37	74.00	-29.64

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2024-05-22

Test Frequency :2462 MHz

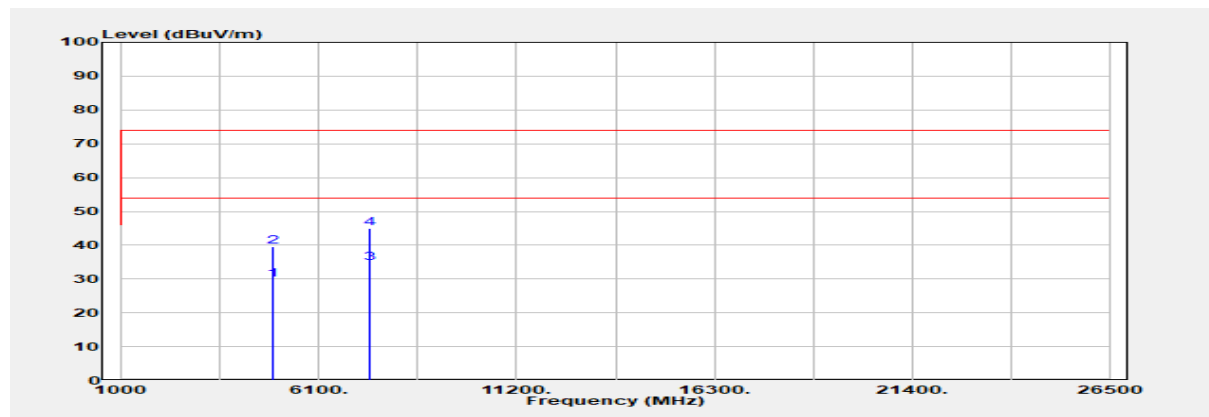
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



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
4924.000	Average	29.32	0.49	29.81	54.00	-24.19
4924.000	Peak	39.01	0.49	39.50	74.00	-34.50
7386.000	Average	28.46	6.20	34.66	54.00	-19.35
7386.000	Peak	38.69	6.20	44.89	74.00	-29.11

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2024-05-22

Test Frequency :2462 MHz

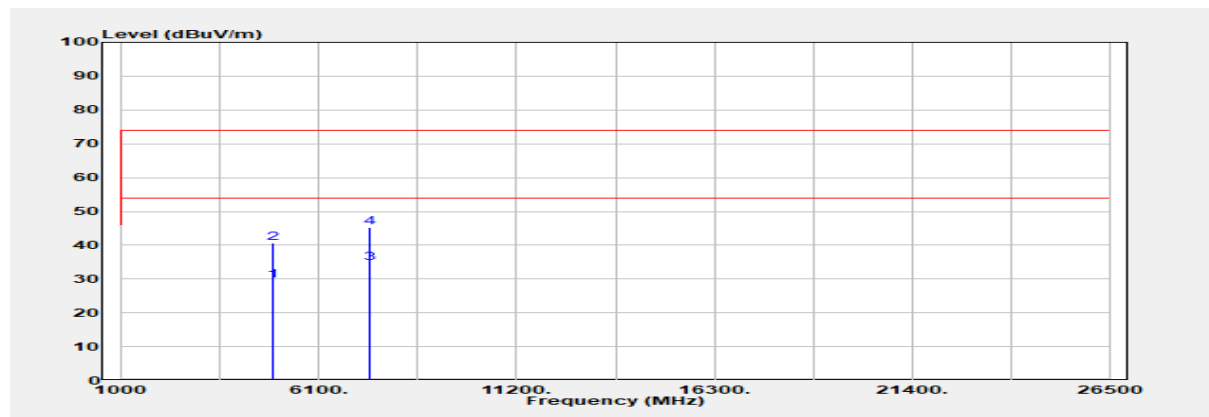
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



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
4924.000	Average	29.15	0.49	29.64	54.00	-24.36
4924.000	Peak	40.13	0.49	40.62	74.00	-33.38
7386.000	Average	28.54	6.20	34.74	54.00	-19.26
7386.000	Peak	39.07	6.20	45.27	74.00	-28.74

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2024-05-22

Test Frequency :2462 MHz

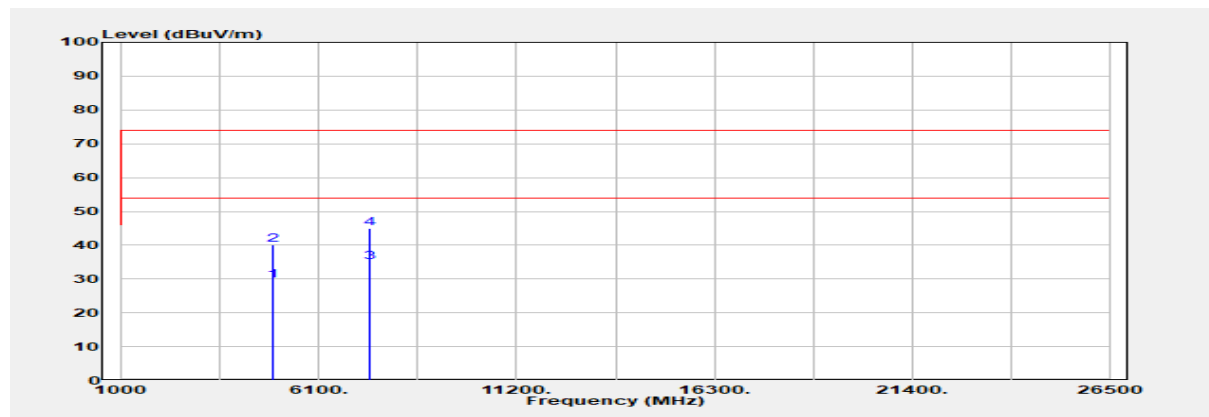
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



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
4924.000	Average	29.07	0.49	29.56	54.00	-24.44
4924.000	Peak	39.63	0.49	40.12	74.00	-33.88
7386.000	Average	28.63	6.20	34.83	54.00	-19.17
7386.000	Peak	38.79	6.20	44.99	74.00	-29.01

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-05-22

Test Frequency :2462 MHz

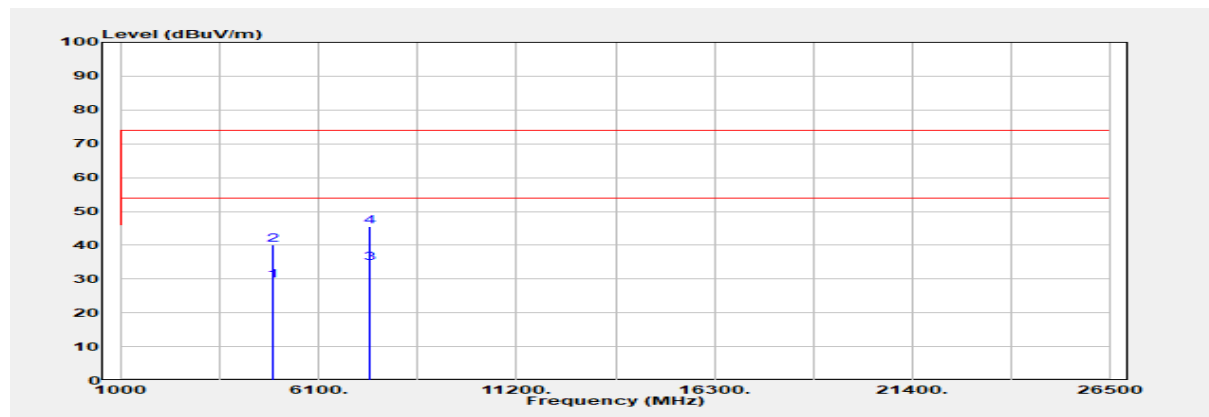
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



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
4924.000	Average	29.12	0.49	29.61	54.00	-24.39
4924.000	Peak	39.64	0.49	40.13	74.00	-33.87
7386.000	Average	28.55	6.20	34.75	54.00	-19.25
7386.000	Peak	39.31	6.20	45.51	74.00	-28.49

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-05-22

Test Frequency :2462 MHz

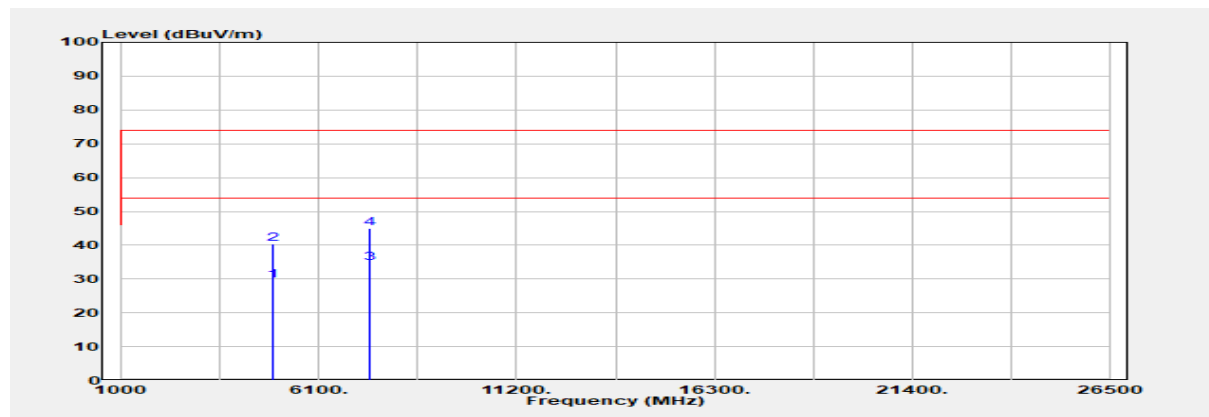
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	29.04	0.49	29.53	54.00	-24.47
4924.000	Peak	39.80	0.49	40.29	74.00	-33.71
7386.000	Average	28.56	6.20	34.76	54.00	-19.24
7386.000	Peak	38.76	6.20	44.96	74.00	-29.05

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-05-22

Test Frequency :2437 MHz

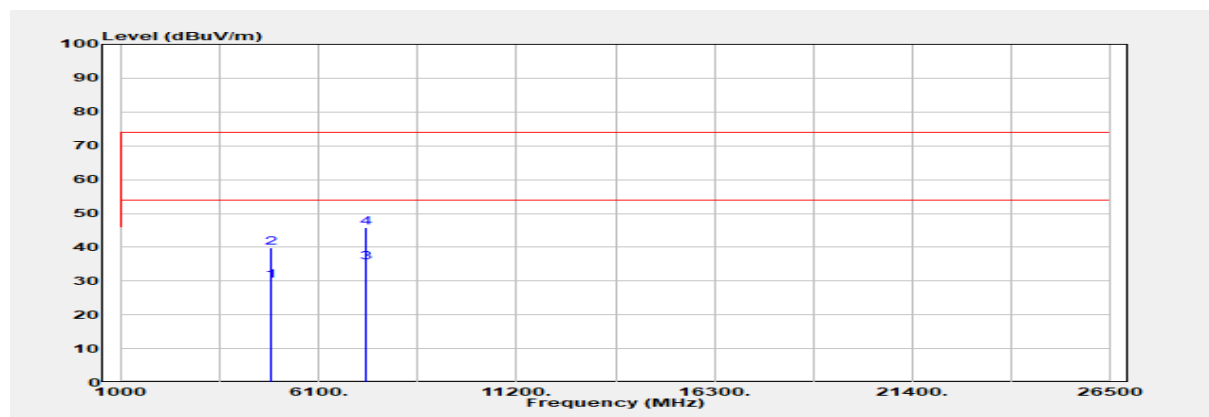
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



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
4874.000	Average	29.63	0.44	30.07	54.00	-23.93
4874.000	Peak	39.46	0.44	39.90	74.00	-34.10
7311.000	Average	28.95	6.49	35.43	54.00	-18.57
7311.000	Peak	39.29	6.49	45.77	74.00	-28.23

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Report Number :TERF2405001304E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-05-22

Test Frequency :2437 MHz

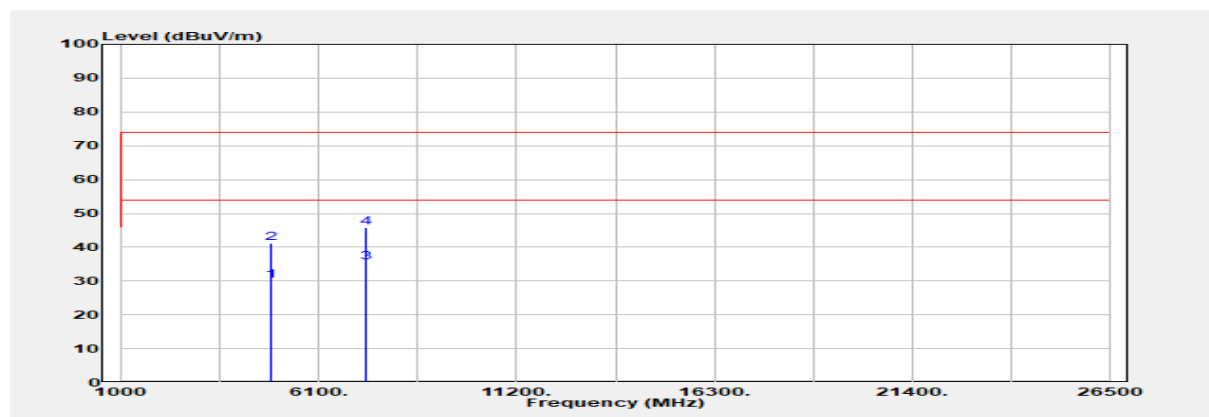
Temp./Humi. :24.8°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



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
4874.000	Average	29.60	0.44	30.05	54.00	-23.95
4874.000	Peak	40.88	0.44	41.32	74.00	-32.68
7311.000	Average	28.89	6.49	35.38	54.00	-18.62
7311.000	Peak	39.44	6.49	45.92	74.00	-28.08

~ End of Report ~

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