

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Manufacturer: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Product Name: Qualcomm WiFi 7/BT Combo module

Brand Name: Qualcomm

Model No.: QCNCM825

Model Difference: N/A

Report Number: TERF2403000773E2

FCC ID MSQ-QCNCM825

Date of EUT Received: March 26, 2024

Date of Test: March 27, 2024 ~ April 09, 2024

Issue Date: April 24, 2024

Arno Hsieh

Approved By _____

Arno Hsieh

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.

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
TERF2403000773E2	00	Original.	April 24, 2024	Karen Huang	

Note:

- 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:	Qualcomm WiFi 7/BT Combo module
Brand Name:	Qualcomm
Model No.:	QCNCM825
Model Difference:	N/A
Power Supply of Host:	11.67Vdc for Rechargeable Li-Polymer Battery Pack or 5 / 9 / 15 / 20V from AC/DC Adapter
Host Information:	Product Type: Notebook PC Brand Name: ASUS Model Name: S5507Q, S5507QA, S5507QAD, K5507Q, V5507Q, P5507CQ All models are electrically identical, different model names are for marketing purpose.

1.2 RF Specification

Modulation type	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK, DBPSK, DQPSK, CCK
Transition Rate	802.11 b: up to 11 Mbps 802.11 g: up to 54 Mbps VHT: up to 500 Mbps 802.11 n: up to MCS7 802.11 ax: up to MCS11 802.11 be: up to MCS13
Operating Frequency	2412 ~ 2472 MHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20): 13 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40): 9

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1.3 Antenna Designation

Antenna Type	Freq.	Main / Aux	Peak Antenna Gain (dBi)
PIFA	2.4GHz	Main	-0.76
		Aux	-1.49

Note:

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

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
 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	
		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 a 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 a 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

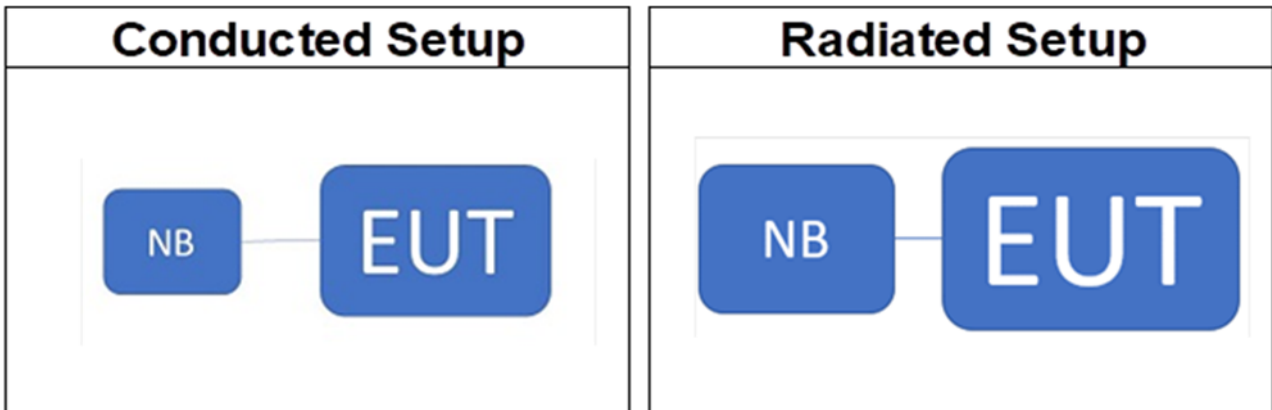
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LAN Cable	AMP	AMP-6e	N/A	N/A	N/A

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB to RJ45	TP-Link	UE300	22085L3000699	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(b) (3)	Peak Output Power	Compliant
§15.209 §15.247(d)	Radiated Band Edge	Compliant

Note

1. All of test items are based on client's request.

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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	10	2457
9	2452	11	2462
10	2457		
11	2462		
12	2467		
13	2472		

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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.
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 13	13	DSSS	1	1TX
802.11g	1 to 13	12,13	OFDM	6	1TX
802.11n_HT20	1 to 13	12,13	OFDM	MCS0	2TX
802.11n_HT40	3 to 11	3,9,10,11	OFDM	MCS0	2TX

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	13	DSSS	1	1Tx
802.11g	1 to 13	12,13	OFDM	6	1Tx
802.11n_HT20	1 to 13	12,13	OFDM	MCS0	2TX
802.11n_HT40	3 to 11	3,9,10,11	OFDM	MCS0	2TX

Note:

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

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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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/23/2023	05/22/2024
Power Meter	Anritsu	ML2496A	2138002	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911390	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911398	08/31/2023	08/30/2024
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	RF19	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF155	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.
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/29/2023	06/28/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF03	11/15/2023	11/14/2024
Coaxial Cables	Woken	00100A1F2A196C	RF95	11/15/2023	11/14/2024

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

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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 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.

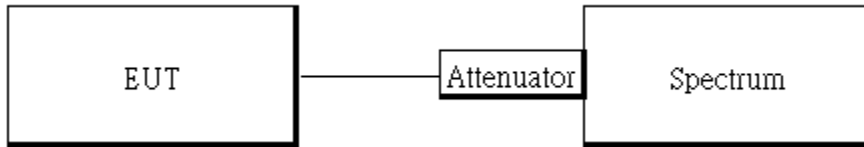
The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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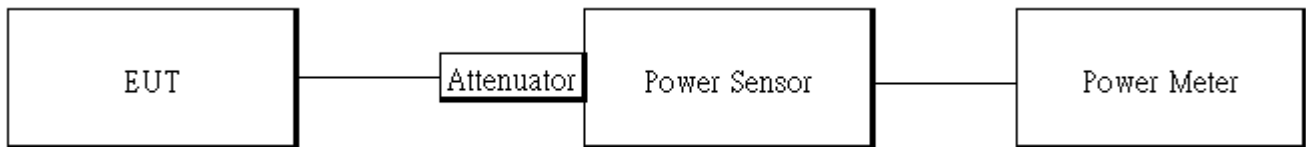
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7.2 Test Setup

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.
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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7.4 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	99.13	0.04	0.73	0.01
802.11g	99.15	0.04	0.48	0.01
802.11n_20	98.96	0.05	0.56	0.01
802.11n_40	98.28	0.08	0.97	0.01

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
13	2472	1	15.25	18.64	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
13	2472	1	15.25	14.93	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
12	2467	6	15.25	19.95	30.00	PASS
13	2472	6	16.5	20.96	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
12	2467	6	15.25	14.69	30.00	PASS
13	2472	6	16.5	13.61	30.00	PASS

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802.11n_HT20M_2TX								
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
12	2467	MCS0	16	20.34	19.89	23.13	30.00	PASS
13	2472	MCS0	17.5	18.96	17.89	21.47	30.00	PASS

802.11n_HT20M_2TX								
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
12	2467	MCS0	16	14.50	13.39	16.99	30.00	PASS
13	2472	MCS0	17.5	10.52	10.35	13.44	30.00	PASS

802.11n_HT40M_2TX								
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	13.5	20.82	20.07	23.47	30.00	PASS
9	2452	MCS0	13.5	20.98	20.16	23.60	30.00	PASS
10	2457	MCS0	15	19.12	18.66	21.91	30.00	PASS
11	2462	MCS0	20.25	15.89	15.22	18.58	30.00	PASS

802.11n_HT40M_2TX								
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	13.5	14.89	14.50	17.71	30.00	PASS
9	2452	MCS0	13.5	14.99	14.66	17.83	30.00	PASS
10	2457	MCS0	15	13.24	12.74	16.00	30.00	PASS
11	2462	MCS0	20.25	7.79	7.66	10.73	30.00	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 limit as below.

And according to §15.33(a) (1), 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:

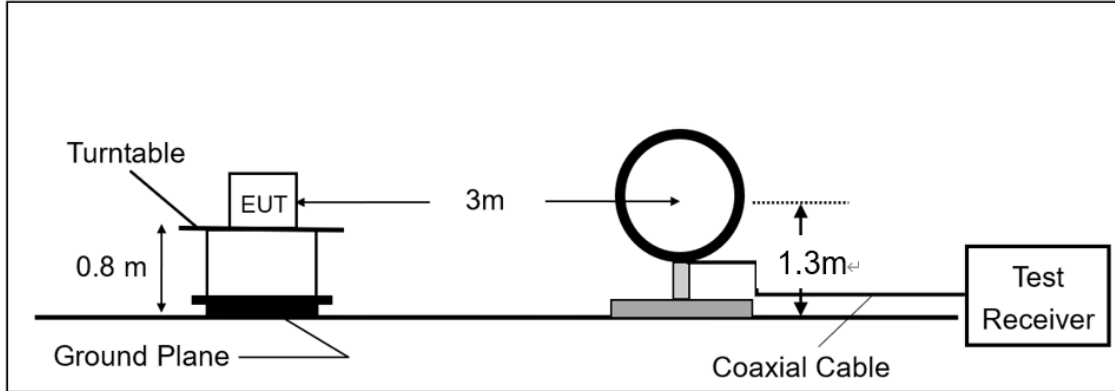
1. The lower limit shall apply at the transition frequencies.

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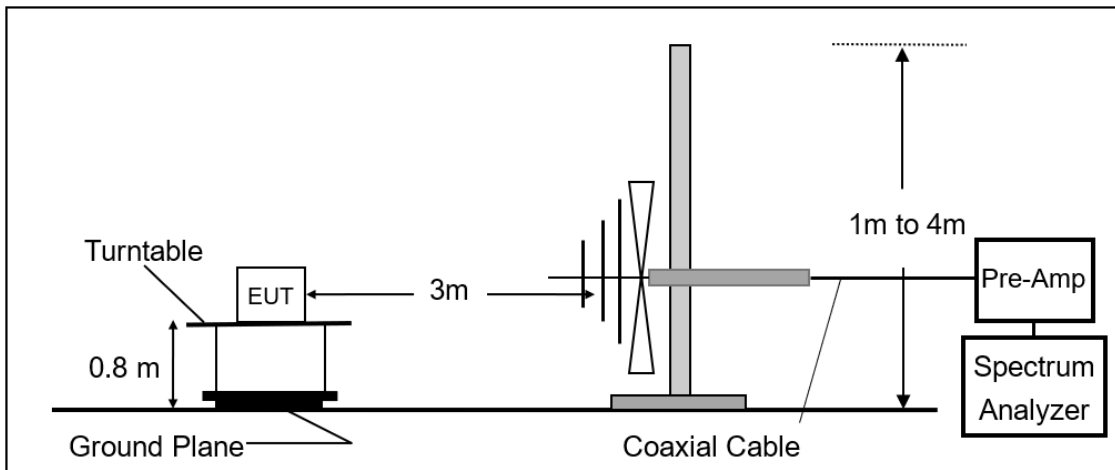
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8.2 Test Setup

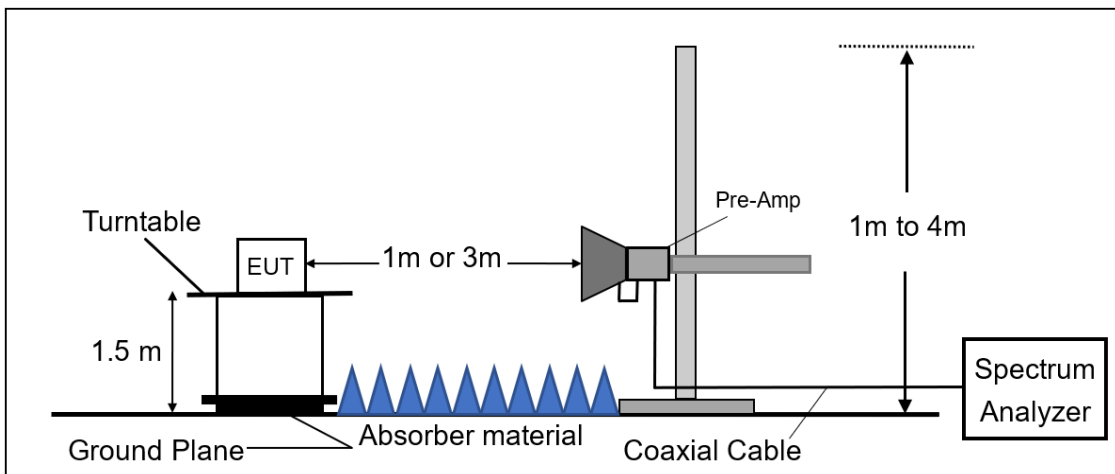
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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*log(uV/m)*

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

Factor(dB) = Antenna Factor(dB μ V/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) 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*

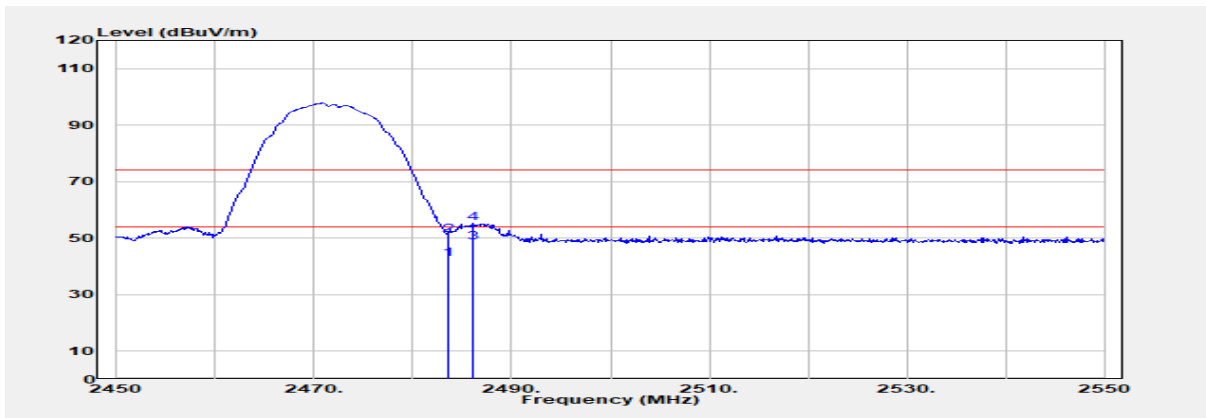
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8.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2403000773E2
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-01
 Temp./Humi. :21.5°C/55%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



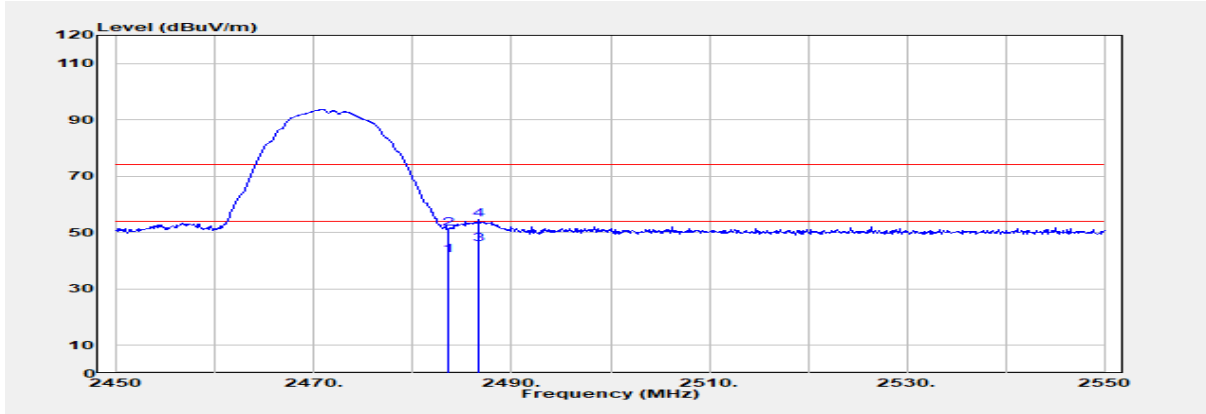
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	46.49	-3.82	42.67	54.00	-11.33
2483.500	Peak	54.91	-3.82	51.09	74.00	-22.91
2486.000	Average	52.24	-3.79	48.44	54.00	-5.56
2486.000	Peak	58.97	-3.79	55.18	74.00	-18.82

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Report Number :TERF2403000773E2
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-01
 Temp./Humi. :21.5°C/55%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



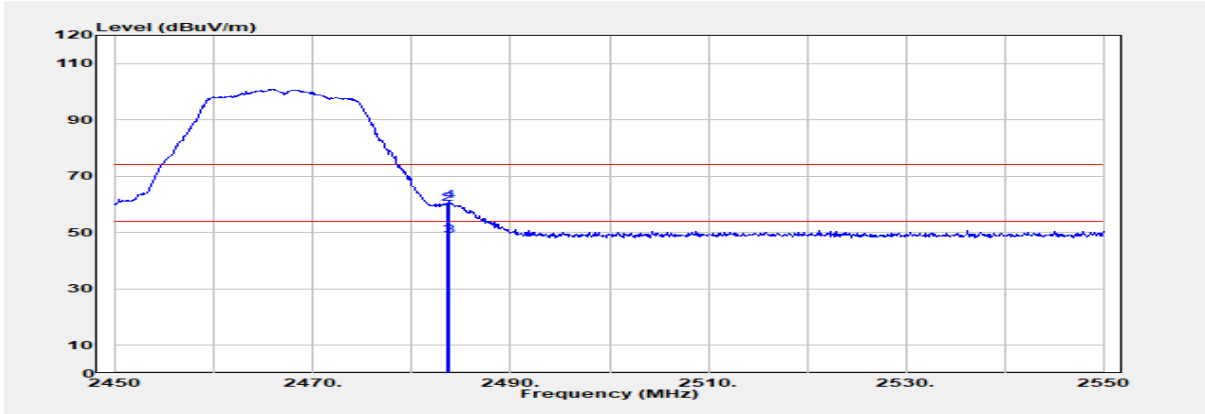
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	45.81	-3.82	41.99	54.00	-12.01
2483.500	Peak	55.17	-3.82	51.35	74.00	-22.65
2486.700	Average	49.60	-3.79	45.82	54.00	-8.18
2486.700	Peak	58.28	-3.79	54.50	74.00	-19.50

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Report Number :TERF2403000773E2
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-01
 Temp./Humi. :21.5°C/55%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



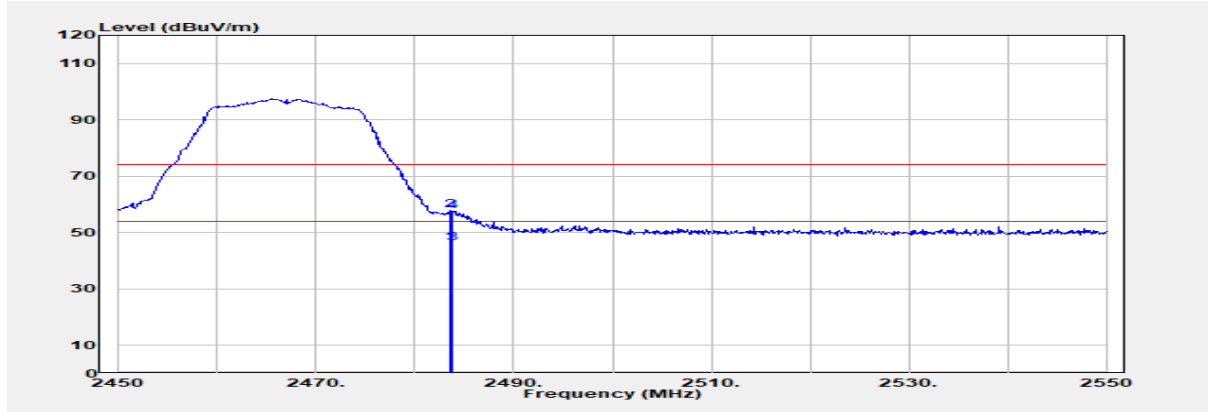
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	52.98	-3.82	49.16	54.00	-4.84
2483.500	Peak	64.08	-3.82	60.26	74.00	-13.74
2483.700	Average	52.70	-3.82	48.88	54.00	-5.12
2483.700	Peak	65.10	-3.82	61.28	74.00	-12.72

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Report Number :TERF2403000773E2
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-01
 Temp./Humi. :21.5°C/55%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



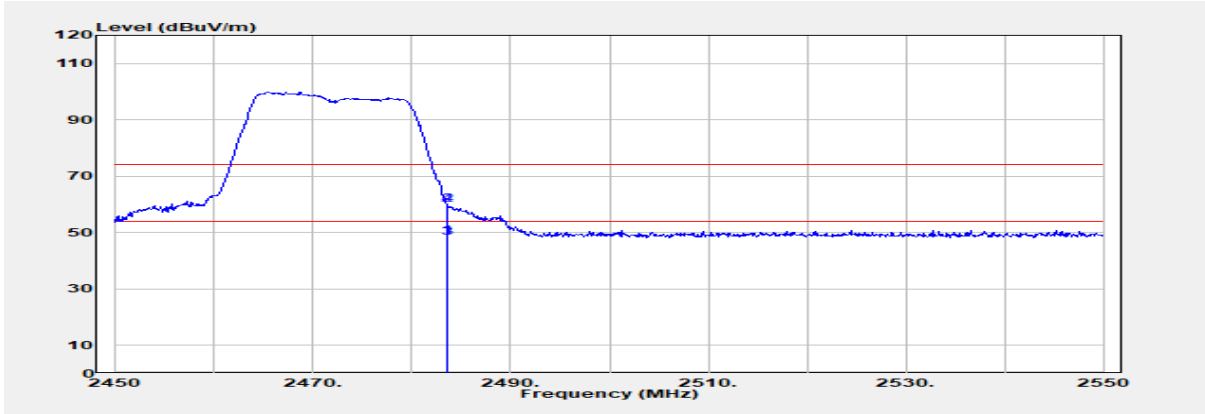
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	49.95	-3.82	46.13	54.00	-7.87
2483.500	Peak	61.57	-3.82	57.75	74.00	-16.25
2483.800	Average	49.87	-3.82	46.06	54.00	-7.94
2483.800	Peak	61.52	-3.82	57.70	74.00	-16.30

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Report Number :TERF2403000773E2
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-01
 Temp./Humi. :21.5°C/55%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



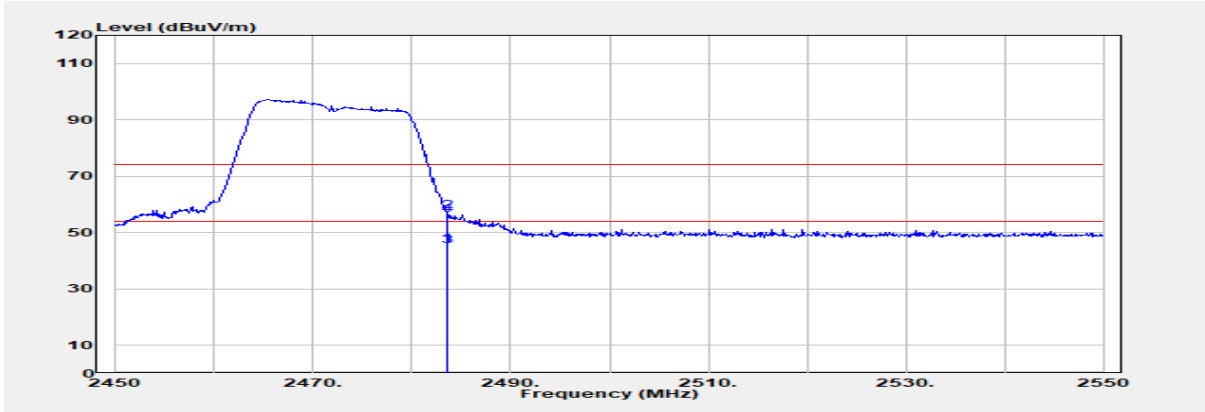
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	52.42	-3.82	48.60	54.00	-5.40
2483.500	Peak	63.60	-3.82	59.78	74.00	-14.22
2483.600	Average	52.09	-3.82	48.27	54.00	-5.73
2483.600	Peak	63.51	-3.82	59.69	74.00	-14.31

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Report Number :TERF2403000773E2
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-01
 Temp./Humi. :21.5°C/55%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



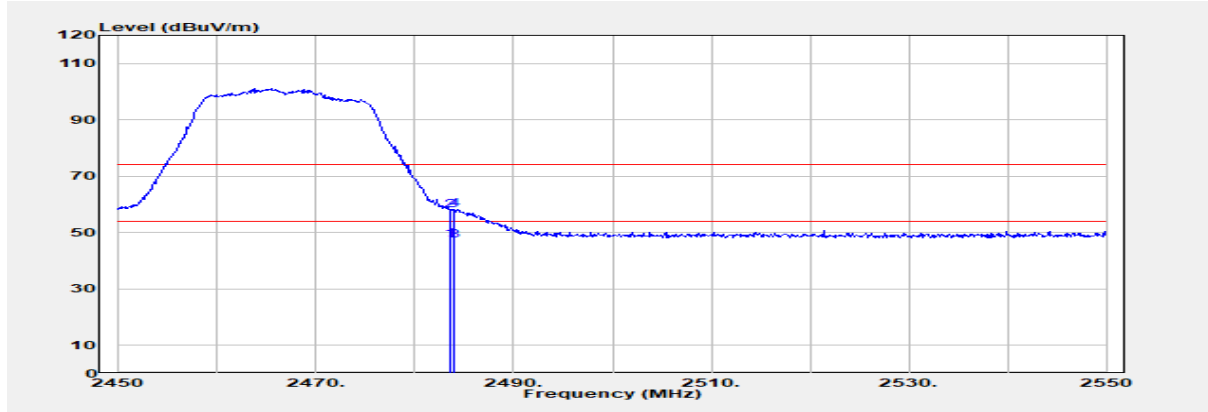
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	49.21	-3.82	45.39	54.00	-8.61
2483.500	Peak	61.24	-3.82	57.42	74.00	-16.58
2483.600	Average	49.09	-3.82	45.27	54.00	-8.73
2483.600	Peak	60.05	-3.82	56.23	74.00	-17.77

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Report Number :TERF2403000773E2
 Operation Mode :802.11n20
 Test Frequency :2467 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



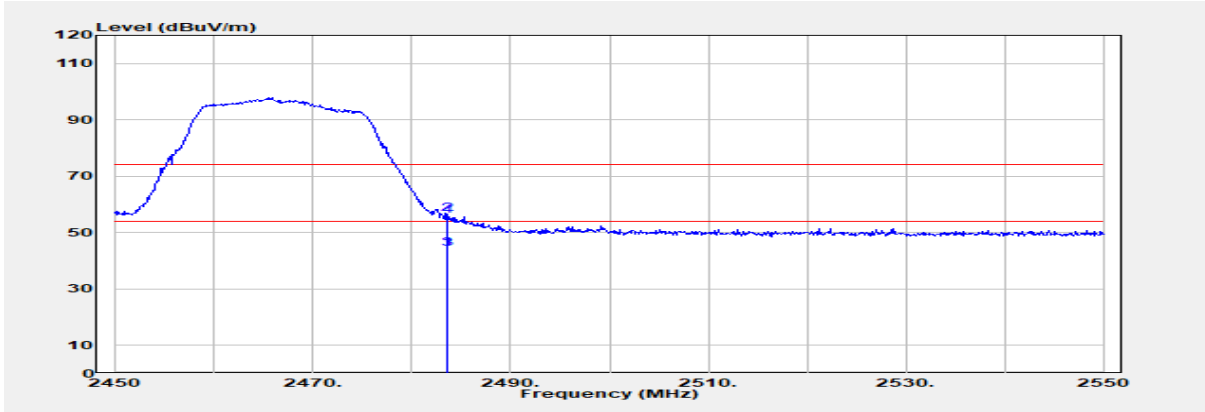
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	51.22	-3.82	47.40	54.00	-6.60
2483.500	Peak	61.67	-3.82	57.85	74.00	-16.15
2484.000	Average	50.91	-3.81	47.10	54.00	-6.90
2484.000	Peak	62.16	-3.81	58.35	74.00	-15.65

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Report Number :TERF2403000773E2
 Operation Mode :802.11n20
 Test Frequency :2467 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



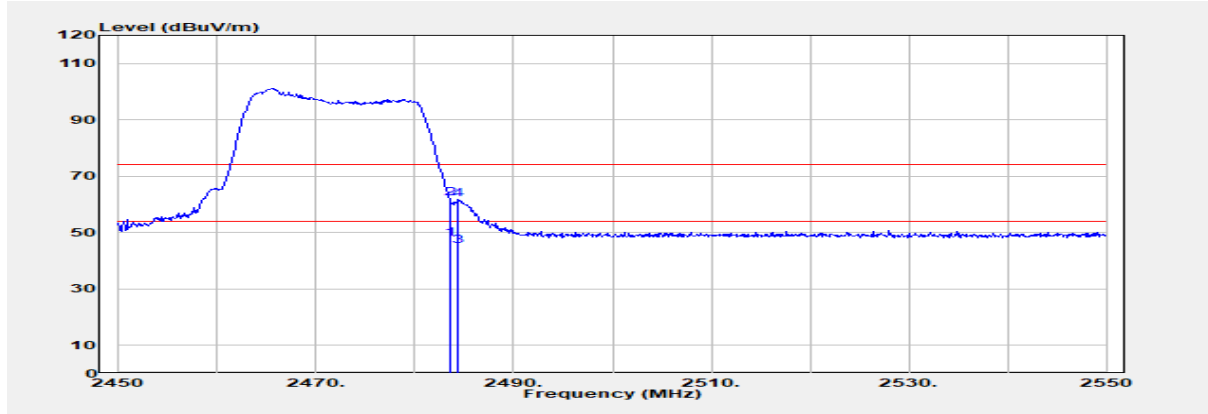
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.95	-3.82	44.13	54.00	-9.87
2483.500	Peak	60.44	-3.82	56.62	74.00	-17.38
2483.600	Average	48.04	-3.82	44.22	54.00	-9.78
2483.600	Peak	59.83	-3.82	56.01	74.00	-17.99

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Report Number :TERF2403000773E2
 Operation Mode :802.11n20
 Test Frequency :2472 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



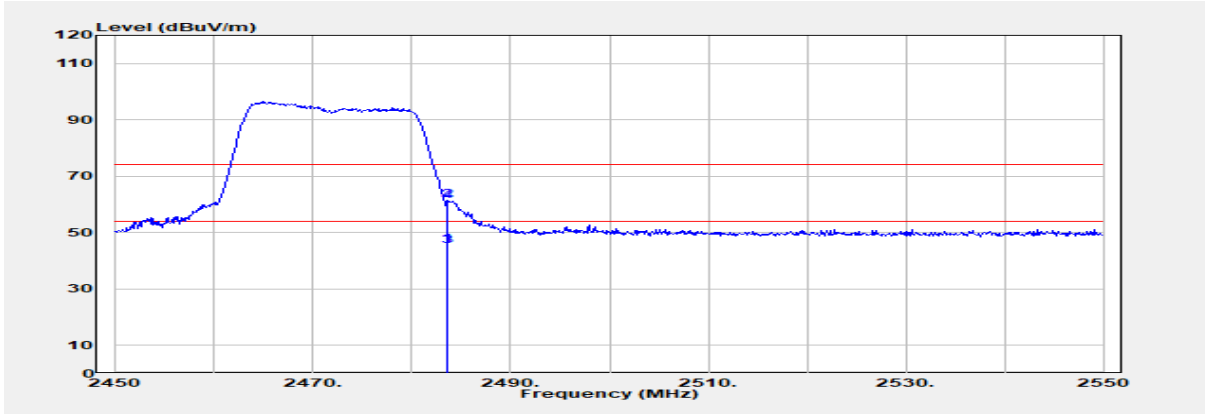
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	51.66	-3.82	47.84	54.00	-6.16
2483.500	Peak	66.01	-3.82	62.19	74.00	-11.81
2484.400	Average	48.89	-3.81	45.08	54.00	-8.92
2484.400	Peak	65.47	-3.81	61.66	74.00	-12.34

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Report Number :TERF2403000773E2
 Operation Mode :802.11n20
 Test Frequency :2472 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



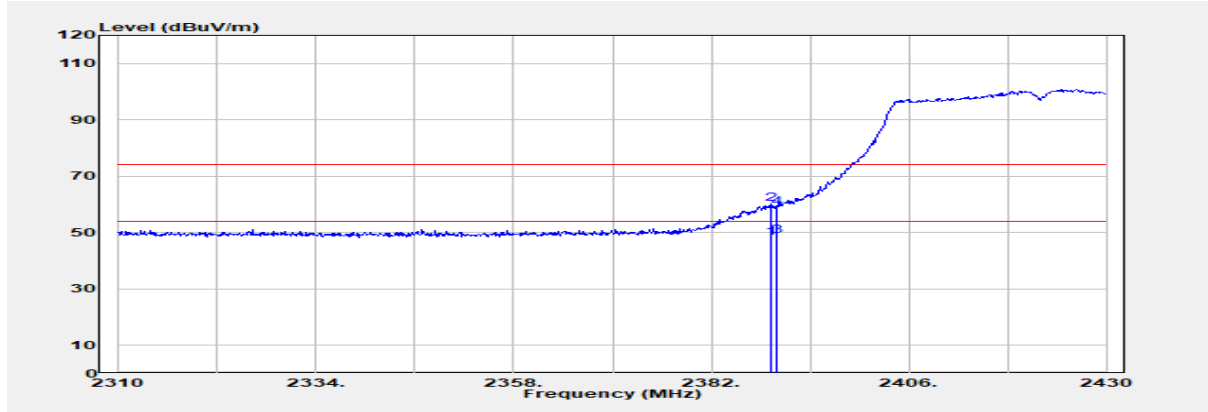
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	49.42	-3.82	45.60	54.00	-8.40
2483.500	Peak	65.26	-3.82	61.44	74.00	-12.56
2483.600	Average	49.02	-3.82	45.21	54.00	-8.79
2483.600	Peak	64.98	-3.82	61.16	74.00	-12.84

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Report Number :TERF2403000773E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



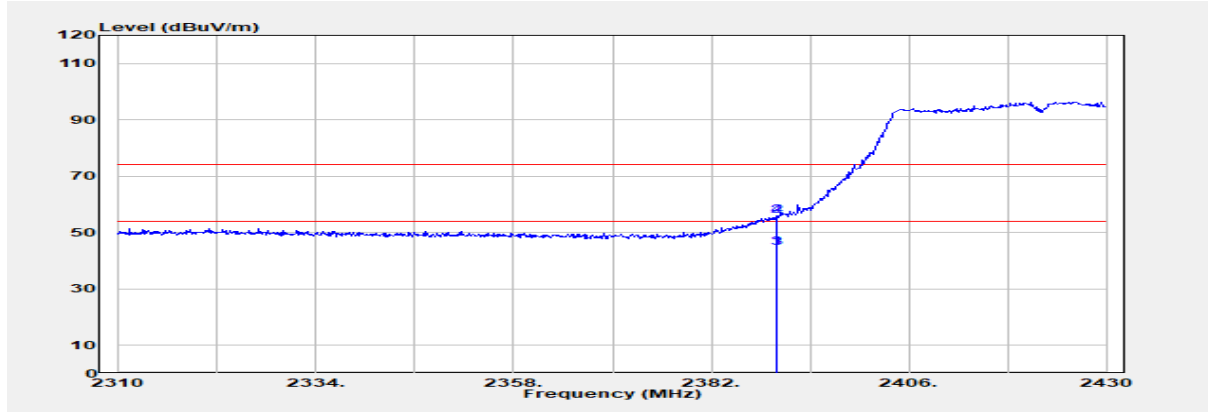
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.320	Average	52.37	-4.24	48.13	54.00	-5.87
2389.320	Peak	64.36	-4.24	60.12	74.00	-13.88
2390.000	Average	52.91	-4.25	48.66	54.00	-5.34
2390.000	Peak	63.20	-4.25	58.95	74.00	-15.05

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Report Number :TERF2403000773E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



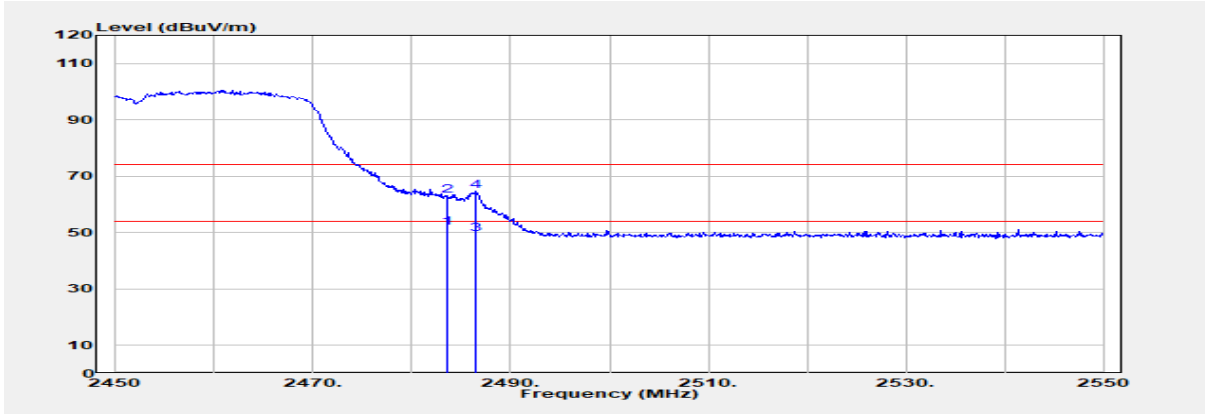
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.920	Average	48.72	-4.25	44.47	54.00	-9.53
2389.920	Peak	60.22	-4.25	55.97	74.00	-18.03
2390.000	Average	48.81	-4.25	44.56	54.00	-9.44
2390.000	Peak	60.04	-4.25	55.79	74.00	-18.21

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Report Number :TERF2403000773E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



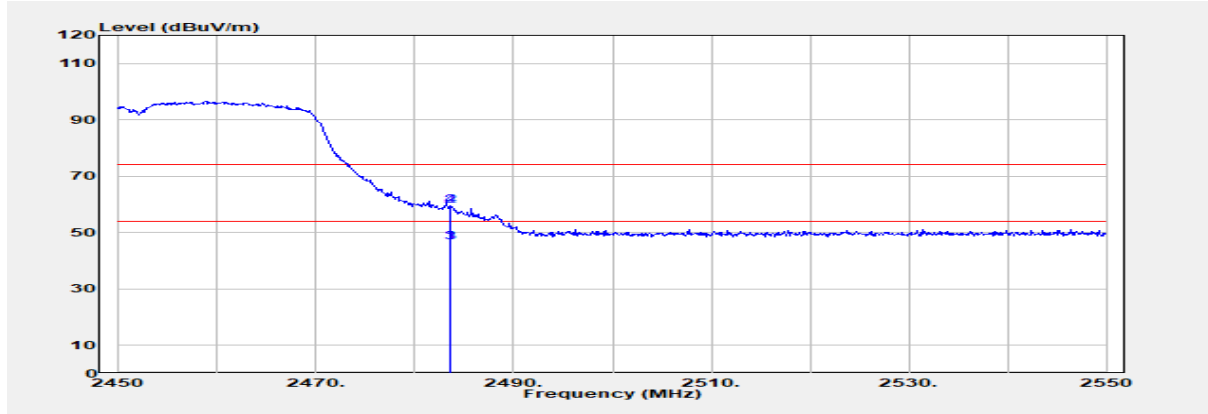
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	55.68	-3.82	51.86	54.00	-2.14
2483.500	Peak	66.93	-3.82	63.11	74.00	-10.89
2486.500	Average	53.06	-3.79	49.27	54.00	-4.73
2486.500	Peak	68.41	-3.79	64.62	74.00	-9.38

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Report Number :TERF2403000773E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



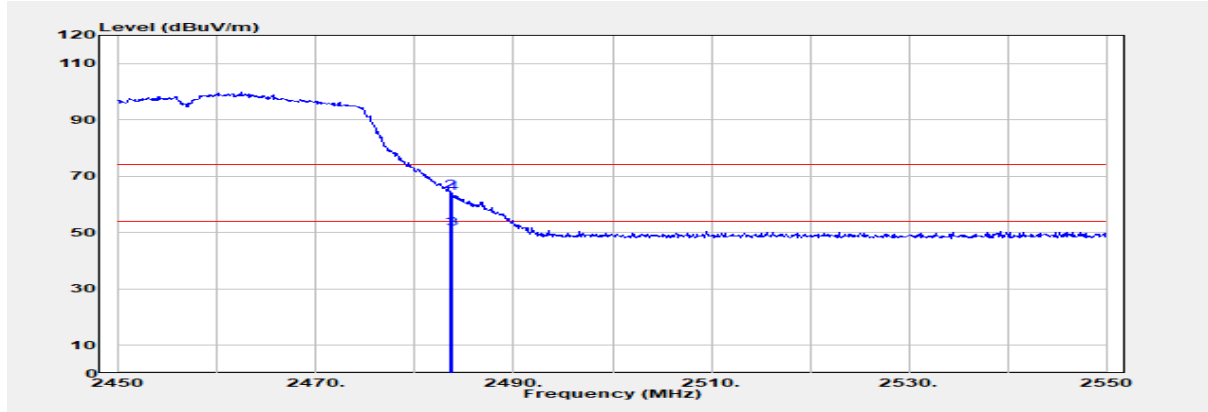
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	50.41	-3.82	46.59	54.00	-7.41
2483.500	Peak	63.27	-3.82	59.45	74.00	-14.55
2483.600	Average	50.28	-3.82	46.46	54.00	-7.54
2483.600	Peak	63.33	-3.82	59.51	74.00	-14.49

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Report Number :TERF2403000773E2
 Operation Mode :802.11n40
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



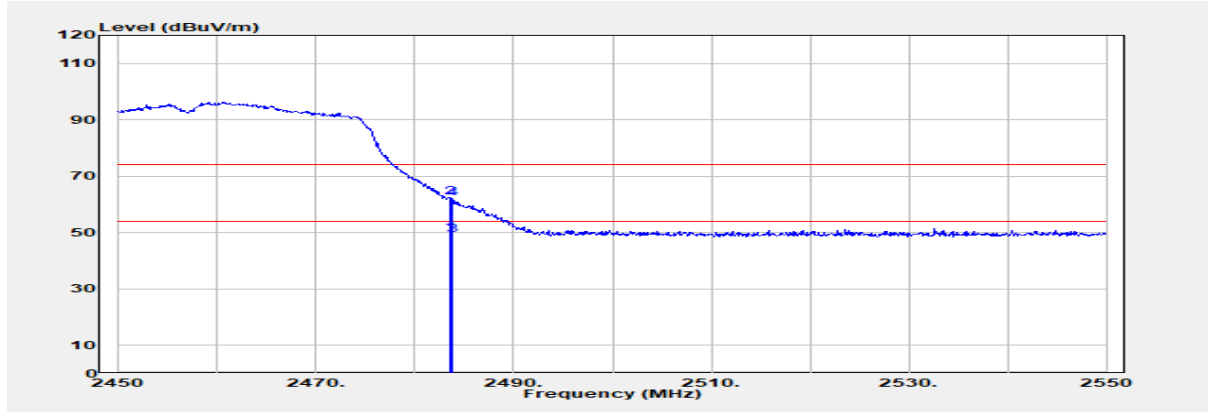
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	55.61	-3.82	51.79	54.00	-2.21
2483.500	Peak	68.62	-3.82	64.80	74.00	-9.20
2483.800	Average	55.14	-3.82	51.32	54.00	-2.68
2483.800	Peak	67.85	-3.82	64.03	74.00	-9.97

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Report Number :TERF2403000773E2
 Operation Mode :802.11n40
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-08
 Temp./Humi. :20.9°C/64%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



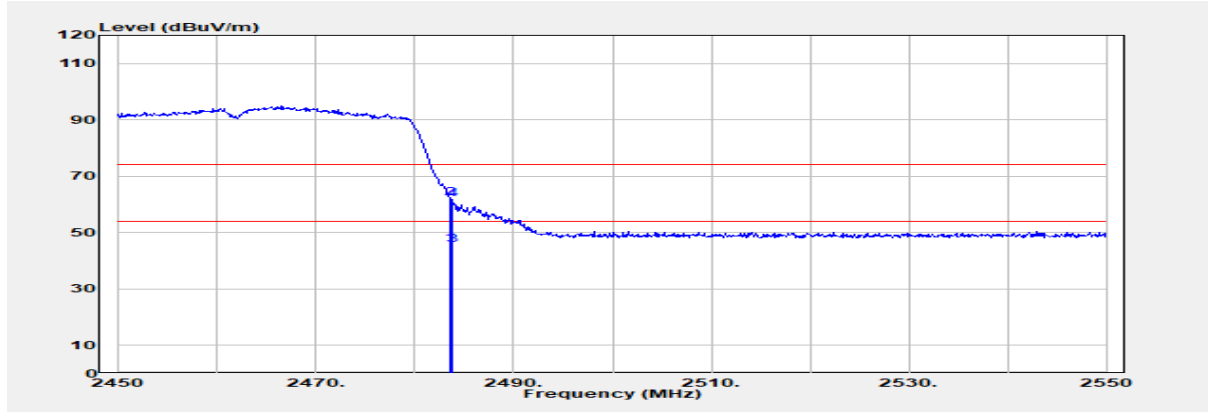
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	53.41	-3.82	49.59	54.00	-4.41
2483.500	Peak	66.14	-3.82	62.32	74.00	-11.68
2483.800	Average	53.01	-3.82	49.19	54.00	-4.81
2483.800	Peak	66.05	-3.82	62.23	74.00	-11.77

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Report Number :TERF2403000773E2
 Operation Mode :802.11n40
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-09
 Temp./Humi. :18.5°C/65%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



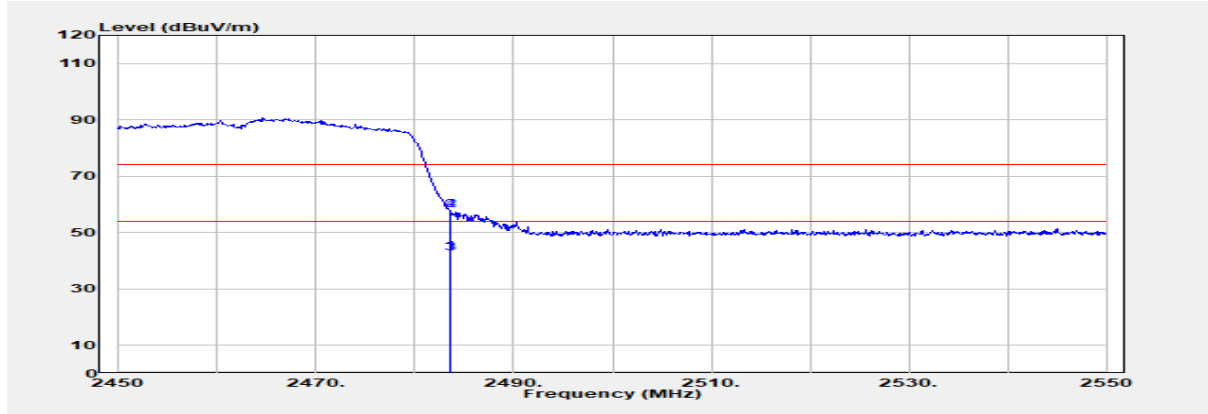
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	49.82	-3.82	46.00	54.00	-8.00
2483.500	Peak	65.78	-3.82	61.96	74.00	-12.04
2483.700	Average	49.26	-3.82	45.44	54.00	-8.56
2483.700	Peak	65.50	-3.82	61.68	74.00	-12.32

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Report Number :TERF2403000773E2
 Operation Mode :802.11n40
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2024-04-09
 Temp./Humi. :18.5°C/65%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	46.81	-3.82	42.99	54.00	-11.01
2483.500	Peak	61.85	-3.82	58.03	74.00	-15.97
2483.600	Average	46.52	-3.82	42.70	54.00	-11.30
2483.600	Peak	61.71	-3.82	57.89	74.00	-16.11

~ End of Report ~

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