

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE TEST REPORT**

Applicant: CASTLES TECHNOLOGY CO., LTD.
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

Manufacturer: CASTLES TECHNOLOGY CO., LTD.
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

Product Name: Smart module

Brand Name:  CASTLES
TECHNOLOGY

Model No.: SLM500

Model Difference: N/A

Report Number: TERF2210002033E2

FCC ID WIYSLM500QA

IC: 27350-SLM500QA

Issue Date: December 08, 2022

Date of Test: October 28, 2022~November 15, 2022

Date of EUT Received: October 20, 2022

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
TERF2210002033E2	00	Original.	December 08, 2022	Susan Lin	

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:	Smart module
Brand Name:	
Model No.:	SLM500
Model Difference:	N/A
Hardware Version:	V1.00
Firmware Version:	N/A
EUT Series No.:	573223200140
Product Name of Host:	POS Terminal
Brand Name of Host:	
Model No. of Host:	S1U2
Power Supply:	9Vdc from Adapter
Test Software (Name/Version):	Qualcomm Radio Control Toolkit/Version 4.0.00163.0

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	19.84	17.64	DSSS
802.11g	2412~2462	11	24.69	17.50	OFDM
802.11n20	2412~2462	11	24.54	17.44	OFDM
802.11n40	2422~2452	7	24.48	17.74	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		64QAM, 16QAM, QPSK, BPSK for OFDM			
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 n_20MHz: up to 72.2Mbps			
		802.11 n_40MHz: 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	19.84	17.64	19.65	DSSS
802.11g	2412~2462	11	24.69	17.50	19.51	OFDM
802.11n20	2412~2462	11	24.54	17.44	19.45	OFDM
802.11n40	2422~2452	7	24.48	17.74	19.75	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS				
		64QAM, 16QAM, QPSK, BPSK for OFDM				
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 n_20MHz: up to 72.2Mbps				
		802.11 n_40MHz: up to 150Mbps				

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	2412~2462	2.01	V
Note: Antenna information is provided by the applicant.			

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1.4 Test Methodology of Applied Standards

- FCC Part 15, Subpart C §15.247
- FCC KDB 558074 D01 DTS Meas. Guidance v05r02
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01
- RSS-247 issue 2 Feb. 2017
- RSS-Gen, Issue 5 April 2018
- 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 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 Test (RF)

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

2.3.2 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

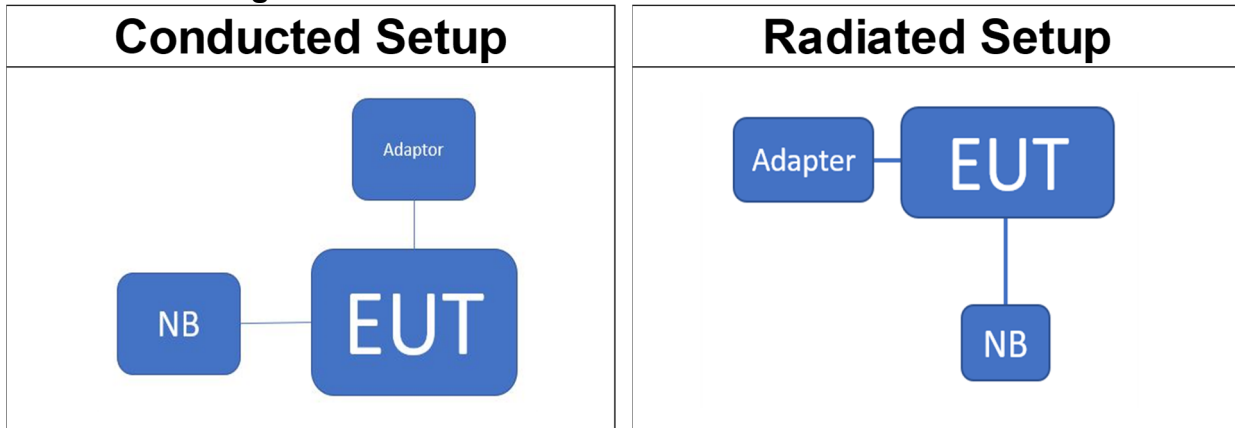
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	CHANG YANG ELECTRONICS CO., LTD	CY-AS-HK0059	N/A	N/A	N/A
Adaptor	CASTLE TECHNOLOGY	PW04-945A	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Cable	CHANG YANG ELECTRONICS CO., LTD	CY-AS-HK0059	N/A	N/A	N/A
Adaptor	CASTLE TECHNOLOGY	PW04-945A	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	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
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Band Edge & Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

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

9 channels are provided for 802.11n 40M

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

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4.2 The Worst Test Modes and Channel Details

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

The gevin UE is pre-scanned among below modes.

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

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

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4.3 Radiated Emission Test:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	1TX

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	1TX
802.11g	1 to 11	1,6,11	OFDM	6	1TX
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS0	1TX
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS0	1TX

Note:

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

4.4 Antenna Port Conducted Measurement:

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	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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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Output Power measurement	+/- 1 dB
Undesignable radiated emission measurement	+/- 1.68 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 PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

6.1.1 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.

6.1.2 Output Power

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.

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.

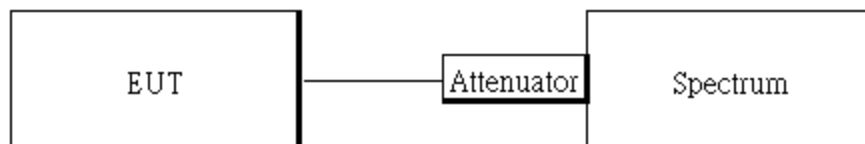
6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/08/2022	06/07/2023
Power Meter	Anritsu	ML2496A	1804002	04/27/2022	04/26/2023
Power Sensor	Anritsu	MA2411B	1726105	04/27/2022	04/26/2023
Power Sensor	Anritsu	MA2411B	1726106	04/27/2022	04/26/2023
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF19	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF22	11/18/2021	11/17/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
DC Block	PASTERNAK	PE8210	RF158	11/18/2021	11/17/2022

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

6.3 Test Setup

6.3.1 Duty Cycle

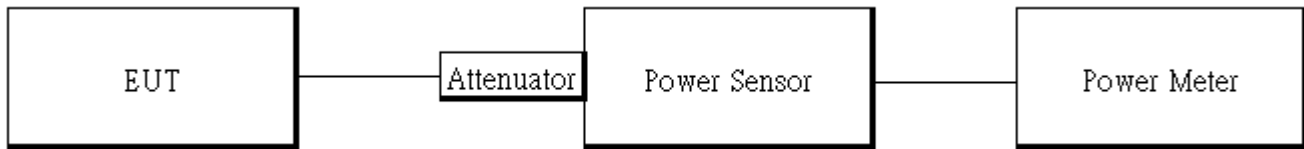


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6.3.2 Output Power:



6.4 Measurement Procedure

6.4.1 Duty Cycle:

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

6.4.2 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.**

6.5 Measurement Result

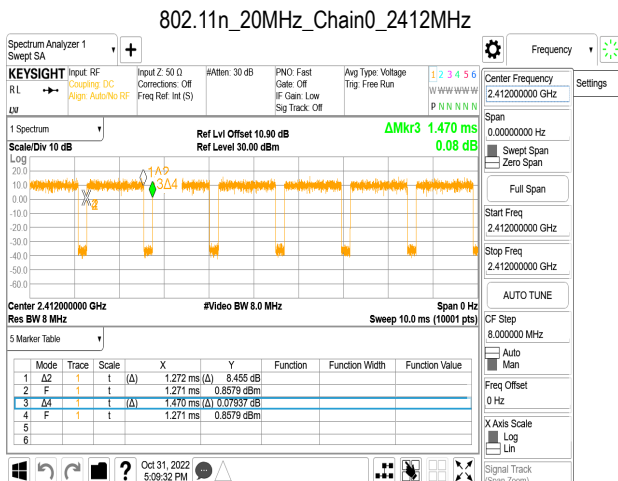
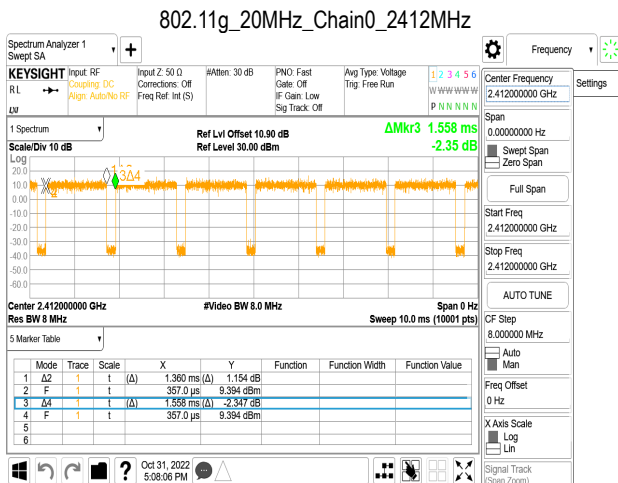
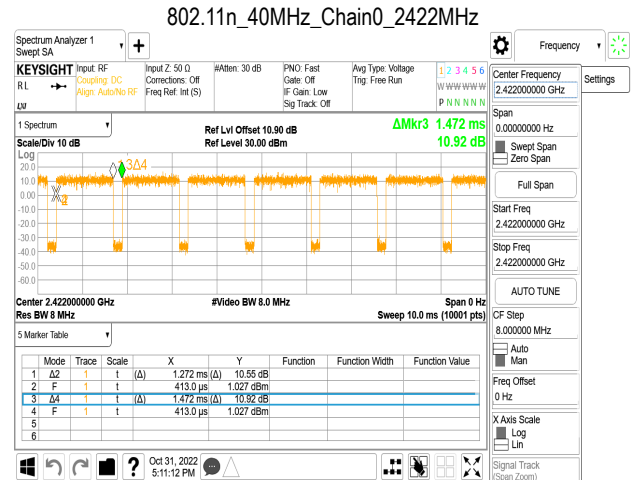
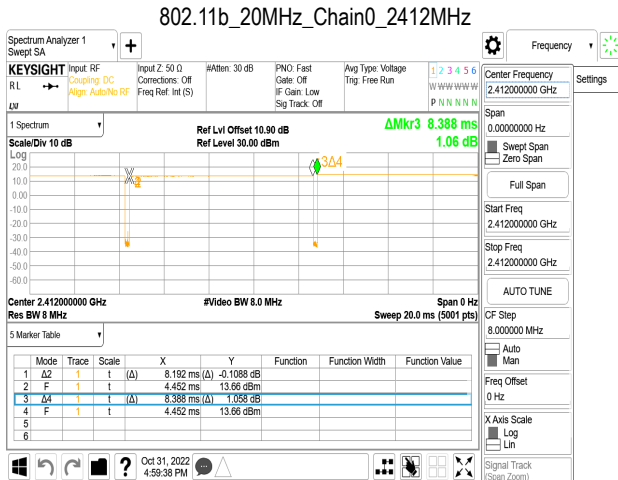
6.5.1 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	97.66	0.10	0.12	1.00
802.11g	87.29	0.59	0.74	1.00
802.11n_20	86.53	0.63	0.79	1.00
802.11n_40	86.41	0.63	0.79	1.00

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6.5.2 Duty Cycle test plots



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6.5.3 Output Power

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	8.5	19.84	30.00	PASS
6	2437	1	9	19.52	30.00	PASS
11	2462	1	9	19.72	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	8.5	17.37	30.00	PASS
6	2437	1	9	17.12	30.00	PASS
11	2462	1	9	17.64	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	10	24.69	30.00	PASS
6	2437	6	11	24.41	30.00	PASS
11	2462	6	10.5	24.52	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	10	17.28	30.00	PASS
6	2437	6	11	17.50	30.00	PASS
11	2462	6	10.5	17.42	30.00	PASS

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802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10	24.54	30.00	PASS
6	2437	MCS0	11	24.29	30.00	PASS
11	2462	MCS0	10.5	24.25	30.00	PASS
802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10	17.41	30.00	PASS
6	2437	MCS0	11	17.44	30.00	PASS
11	2462	MCS0	10.5	17.38	30.00	PASS
802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10	24.48	30.00	PASS
6	2437	MCS0	11	24.34	30.00	PASS
9	2452	MCS0	11	24.21	30.00	PASS
802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10	17.46	30.00	PASS
6	2437	MCS0	11	17.50	30.00	PASS
9	2452	MCS0	11	17.74	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	17.37	2.01	19.38	36	PASS
6	2437	1	17.12	2.01	19.13	36	PASS
11	2462	1	17.64	2.01	19.65	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	17.28	2.01	19.29	36	PASS
6	2437	6	17.50	2.01	19.51	36	PASS
11	2462	6	17.42	2.01	19.43	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	17.41	2.01	19.42	36	PASS
6	2437	MCS0	17.44	2.01	19.45	36	PASS
11	2462	MCS0	17.38	2.01	19.39	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	17.46	2.01	19.47	36	PASS
6	2437	MCS0	17.50	2.01	19.51	36	PASS
9	2452	MCS0	17.74	2.01	19.75	36	PASS

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

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

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

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

Note:

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

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

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7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/15/2022	12/14/2023
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/08/2022	04/07/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/06/2022	05/07/2023
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/14/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2022	03/14/2023

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

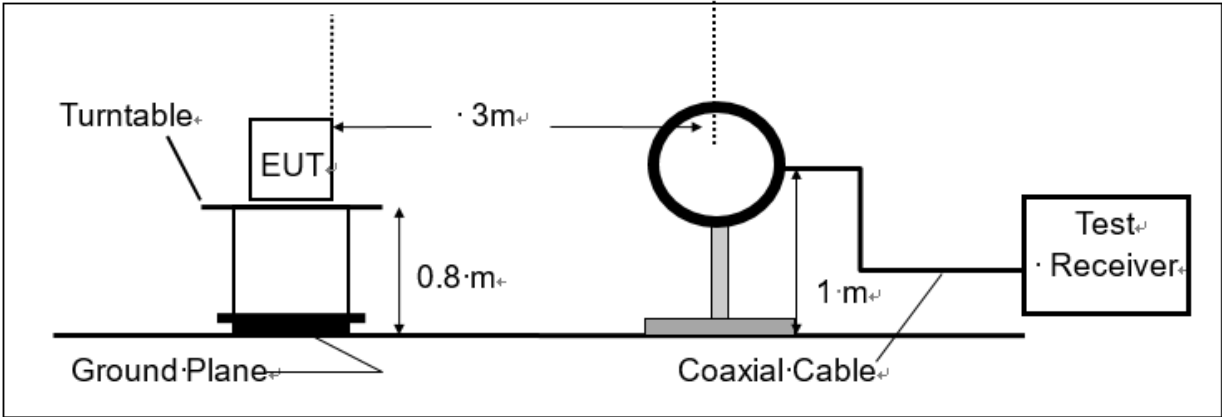
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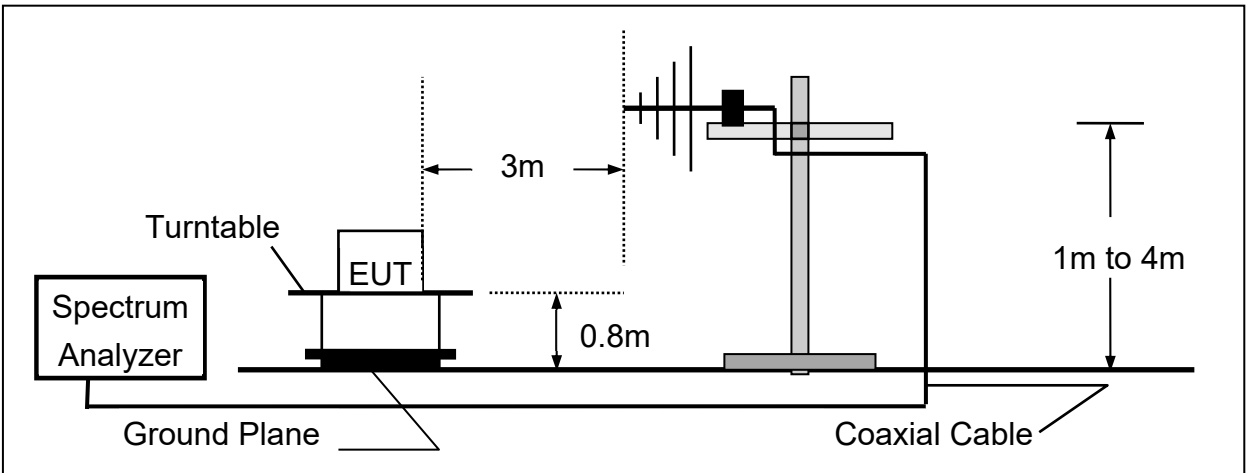
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7.3 Test Setup

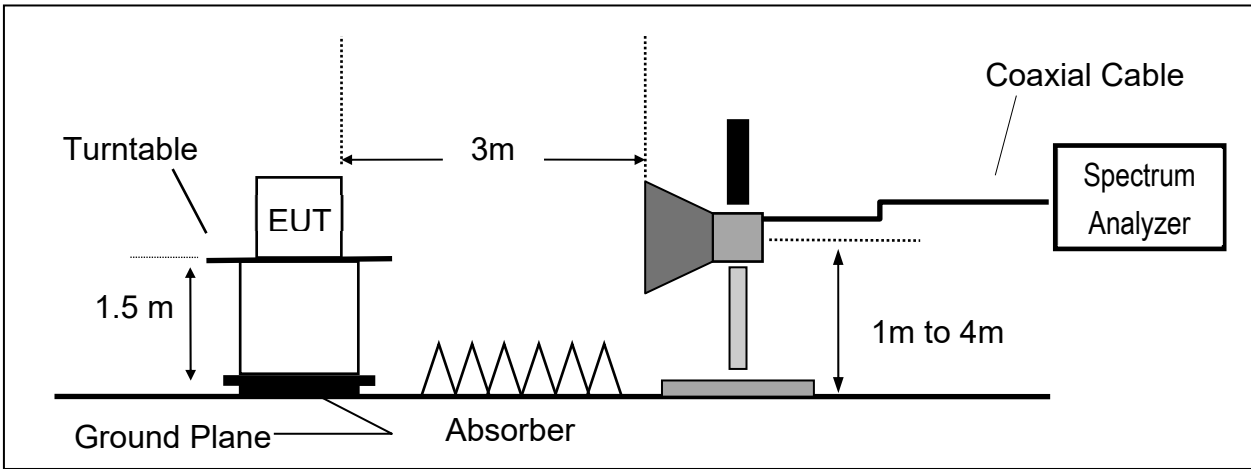
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. 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.

7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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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)

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

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

7.7 Measurement Result

Note:

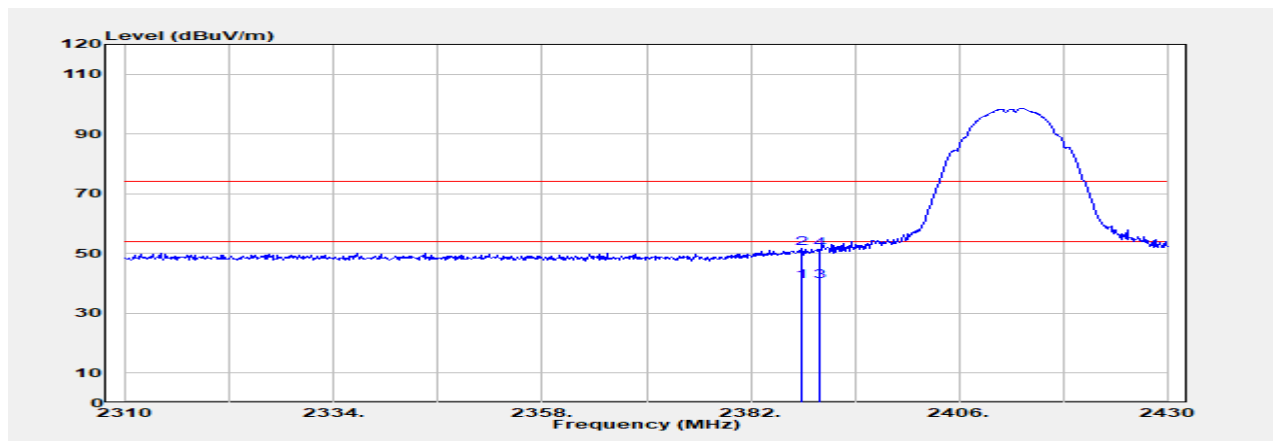
1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands*

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7.7.1 Radiated Band Edge Measurement Result

Report Number	:TERF2210002033E2	Test Site	:SAC G
Operation Mode	:802.11b	Test Date	:2022-11-11
Test Frequency	:2412 MHz	Temp./Humi.	:20.8/64
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



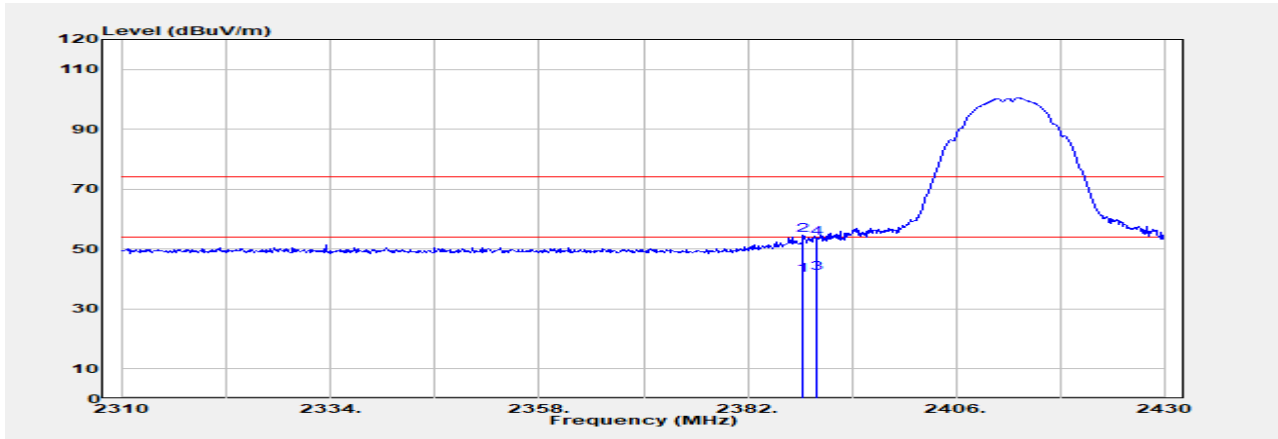
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2387.880	Average	44.54	-3.79	40.75	54.00	-13.25
2387.880	Peak	55.59	-3.79	51.80	74.00	-22.20
2390.000	Average	44.57	-3.80	40.77	54.00	-13.23
2390.000	Peak	55.03	-3.80	51.23	74.00	-22.77

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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.360	Average	45.24	-3.79	41.45	54.00	-12.55
2388.360	Peak	58.42	-3.79	54.63	74.00	-19.37
2390.000	Average	45.68	-3.80	41.88	54.00	-12.12
2390.000	Peak	57.40	-3.80	53.60	74.00	-20.40

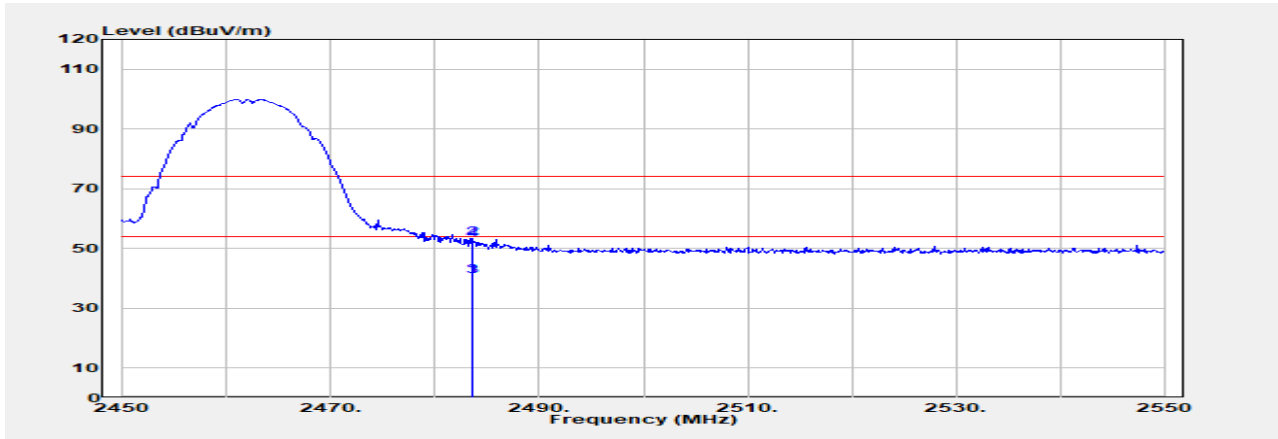
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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	44.57	-3.82	40.75	54.00	-13.25
2483.500	Peak	57.09	-3.82	53.27	74.00	-20.73
2483.600	Average	44.47	-3.82	40.65	54.00	-13.35
2483.600	Peak	56.85	-3.82	53.03	74.00	-20.97

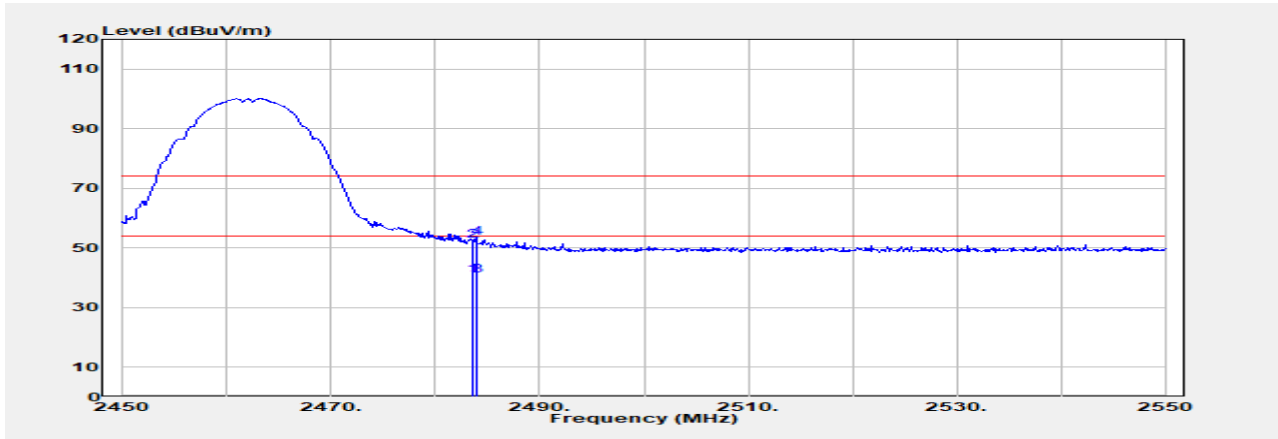
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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	44.43	-3.82	40.62	54.00	-13.38
2483.500	Peak	56.06	-3.82	52.24	74.00	-21.76
2483.900	Average	44.49	-3.82	40.67	54.00	-13.33
2483.900	Peak	57.30	-3.82	53.48	74.00	-20.52

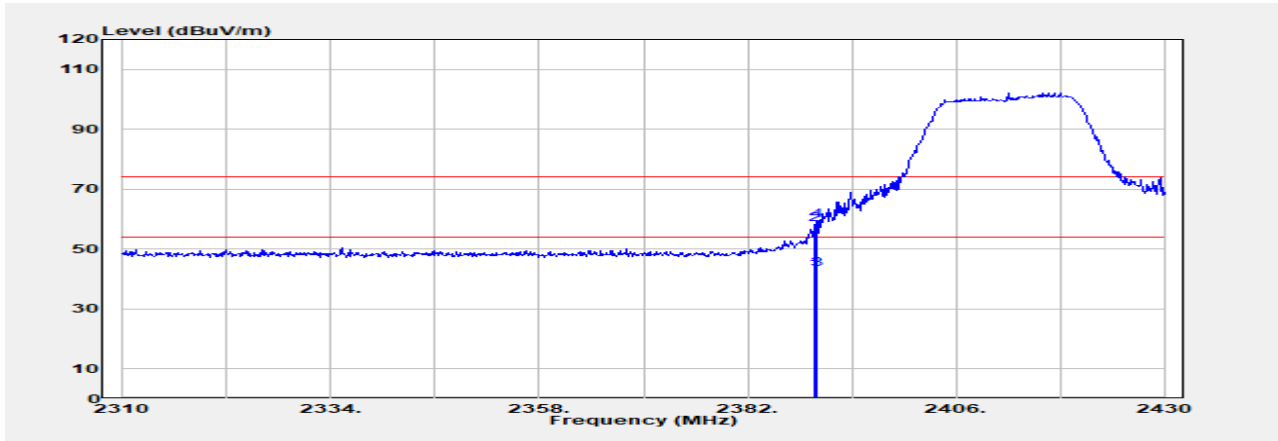
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2389.680	Average	46.86	-3.80	43.06	54.00	-10.94
2389.680	Peak	62.06	-3.80	58.27	74.00	-15.73
2390.000	Average	47.10	-3.80	43.30	54.00	-10.70
2390.000	Peak	63.31	-3.80	59.51	74.00	-14.49

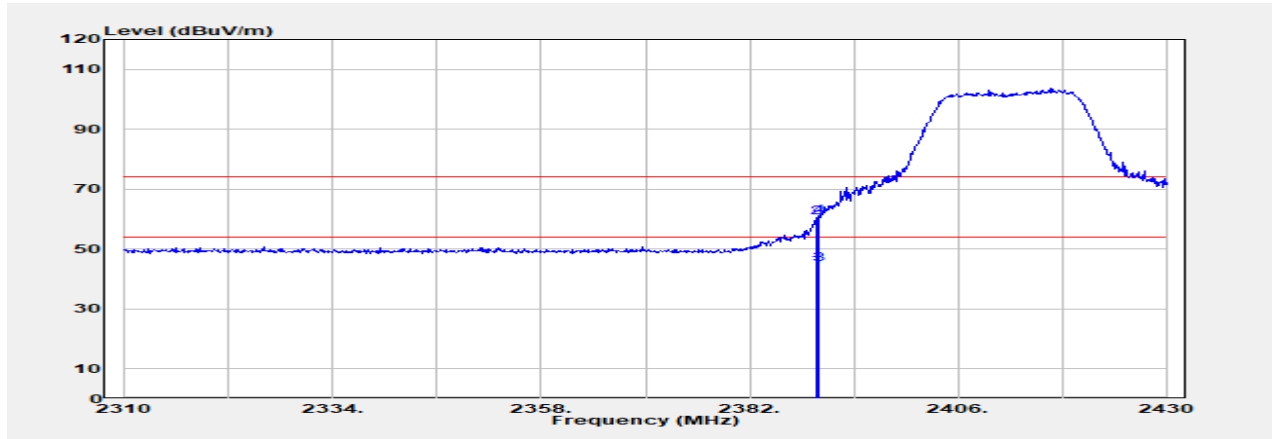
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



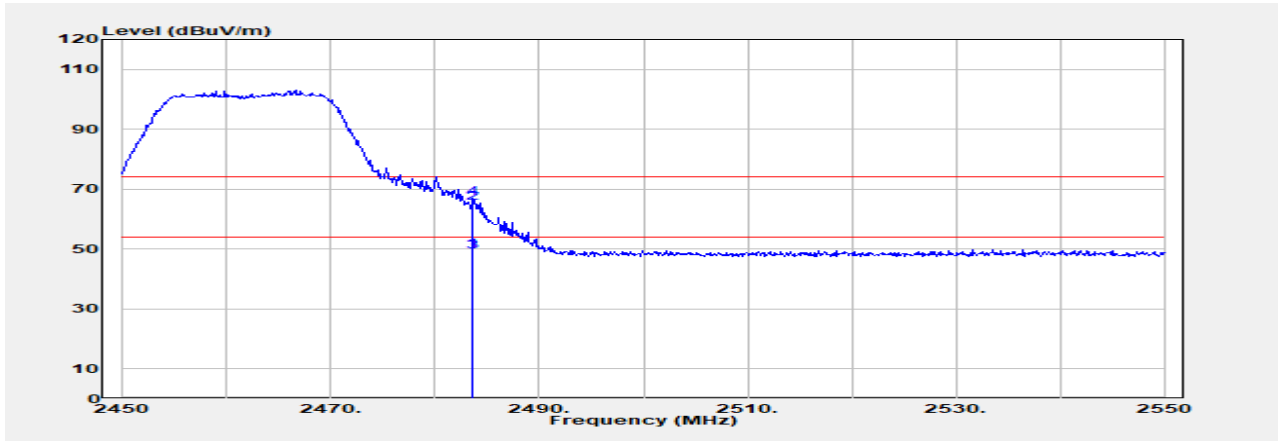
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2389.680	Average	47.87	-3.80	44.07	54.00	-9.93
2389.680	Peak	64.36	-3.80	60.57	74.00	-13.43
2390.000	Average	48.67	-3.80	44.87	54.00	-9.13
2390.000	Peak	64.65	-3.80	60.85	74.00	-13.15

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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	53.24	-3.82	49.42	54.00	-4.58
2483.500	Peak	69.12	-3.82	65.30	74.00	-8.70
2483.600	Average	52.92	-3.82	49.10	54.00	-4.90
2483.600	Peak	70.81	-3.82	66.99	74.00	-7.01

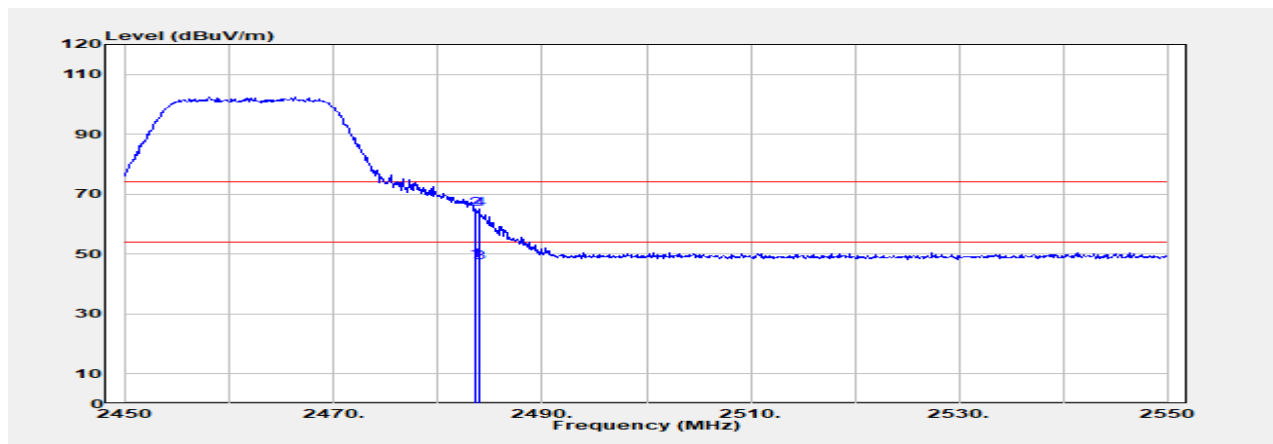
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	51.60	-3.82	47.78	54.00	-6.22
2483.500	Peak	68.89	-3.82	65.07	74.00	-8.93
2483.900	Average	50.82	-3.82	47.00	54.00	-7.00
2483.900	Peak	68.77	-3.82	64.95	74.00	-9.05

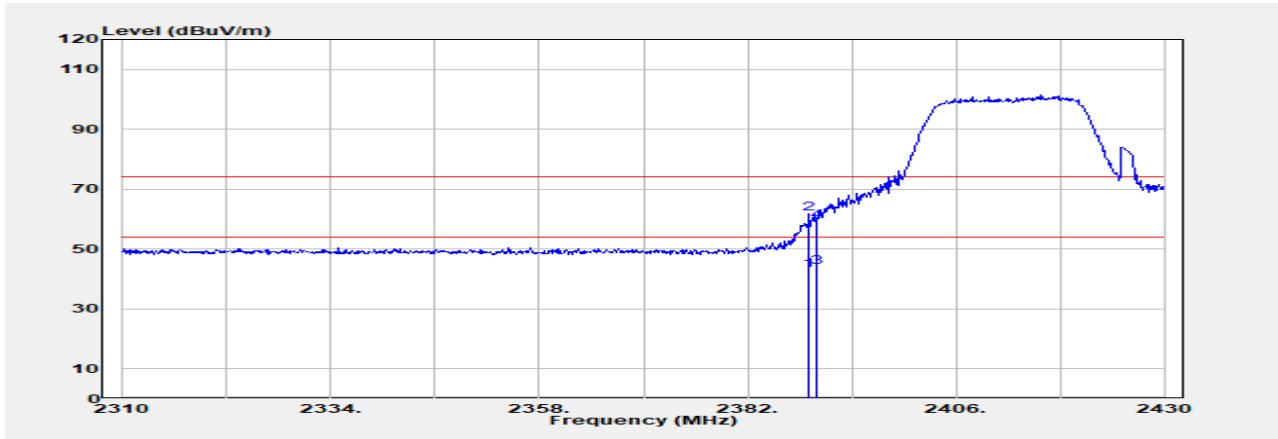
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2389.080	Average	46.68	-3.80	42.88	54.00	-11.12
2389.080	Peak	65.59	-3.80	61.80	74.00	-12.20
2390.000	Average	47.78	-3.80	43.97	54.00	-10.03
2390.000	Peak	62.82	-3.80	59.02	74.00	-14.98

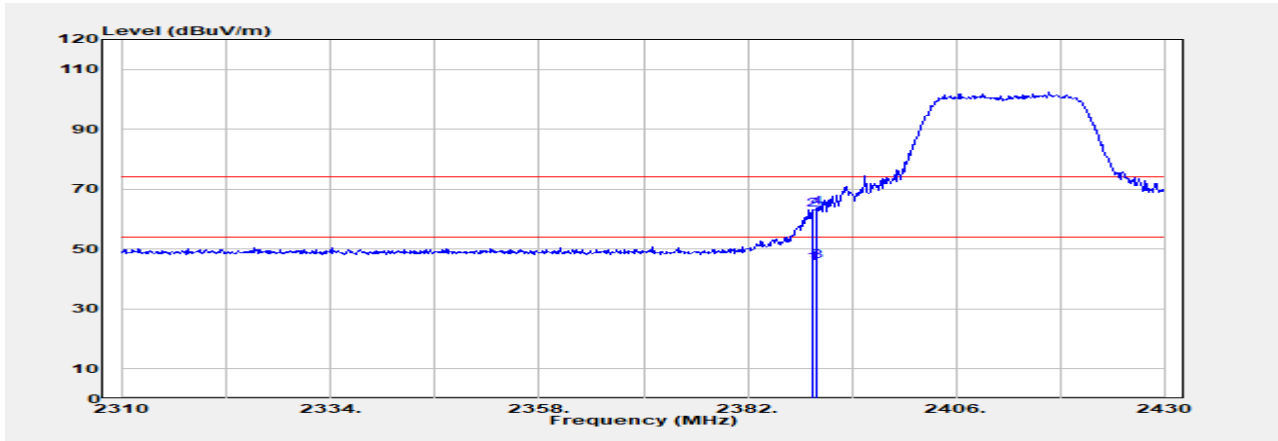
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2389.560	Average	48.89	-3.80	45.09	54.00	-8.91
2389.560	Peak	67.04	-3.80	63.24	74.00	-10.76
2390.000	Average	49.71	-3.80	45.91	54.00	-8.09
2390.000	Peak	67.52	-3.80	63.72	74.00	-10.28

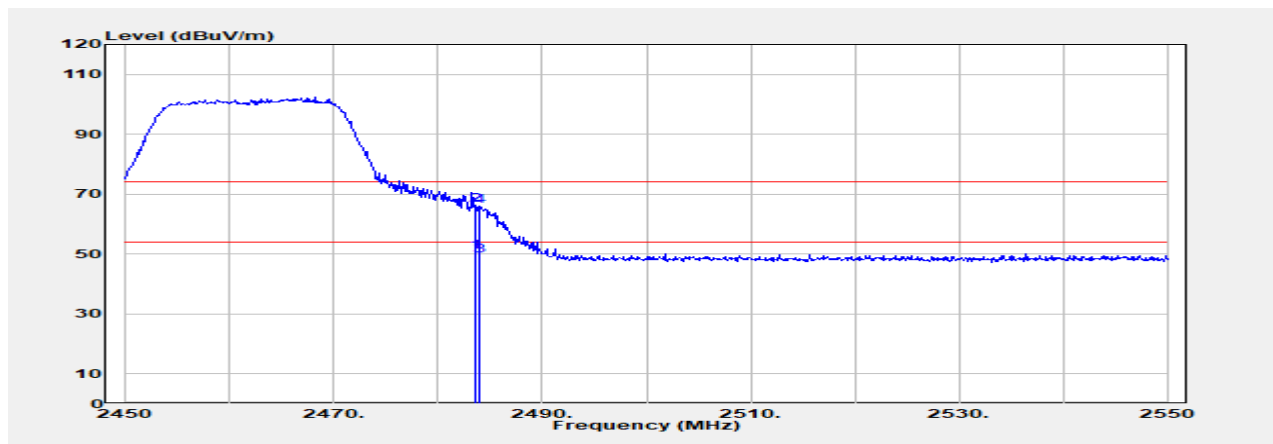
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	54.40	-3.82	50.58	54.00	-3.42
2483.500	Peak	70.11	-3.82	66.29	74.00	-7.71
2484.000	Average	53.10	-3.82	49.28	54.00	-4.72
2484.000	Peak	69.96	-3.82	66.15	74.00	-7.85

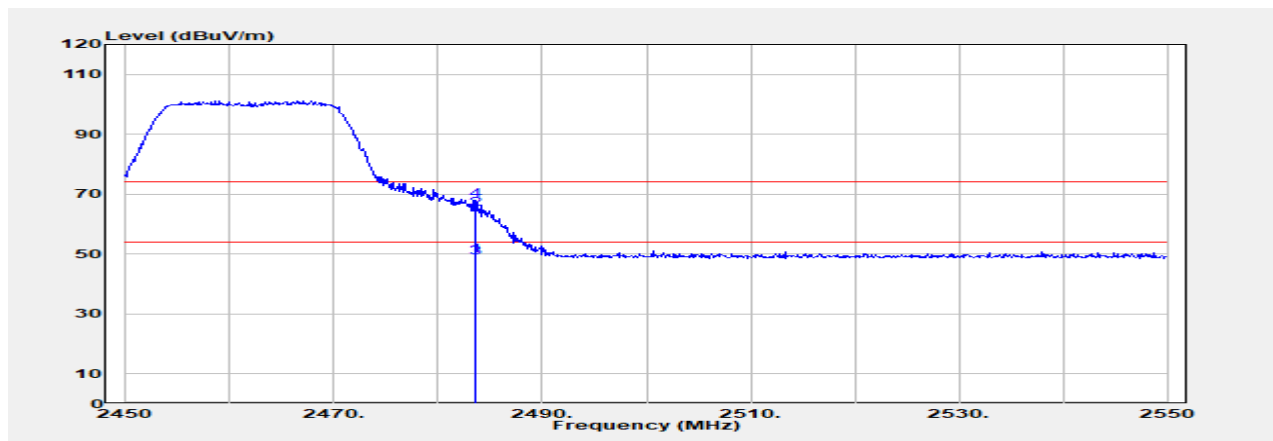
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



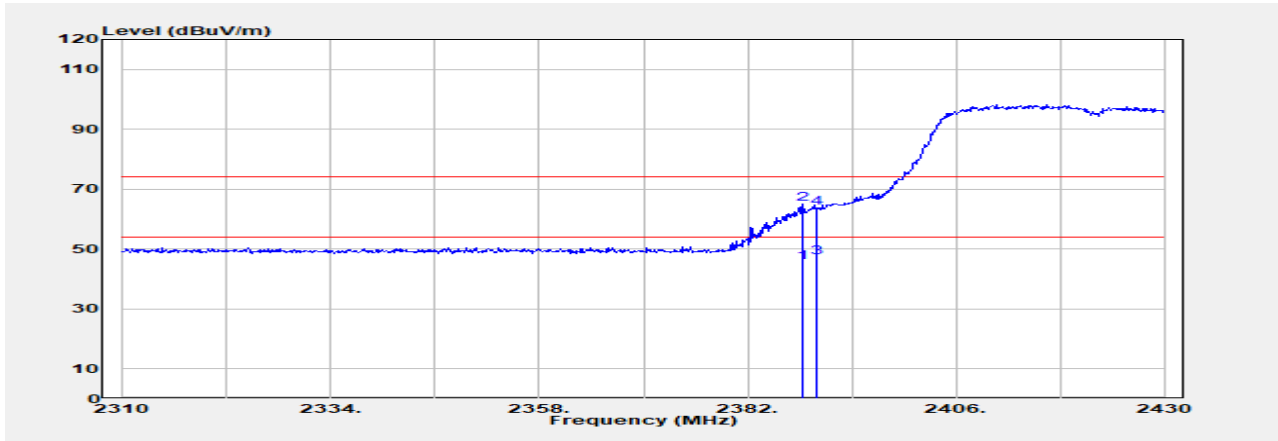
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	53.21	-3.82	49.39	54.00	-4.61
2483.500	Peak	68.70	-3.82	64.88	74.00	-9.12
2483.600	Average	52.68	-3.82	48.86	54.00	-5.14
2483.600	Peak	71.70	-3.82	67.88	74.00	-6.12

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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.360	Average	49.18	-3.79	45.38	54.00	-8.62
2388.360	Peak	68.91	-3.79	65.12	74.00	-8.88
2390.000	Average	51.08	-3.80	47.28	54.00	-6.72
2390.000	Peak	67.39	-3.80	63.59	74.00	-10.41

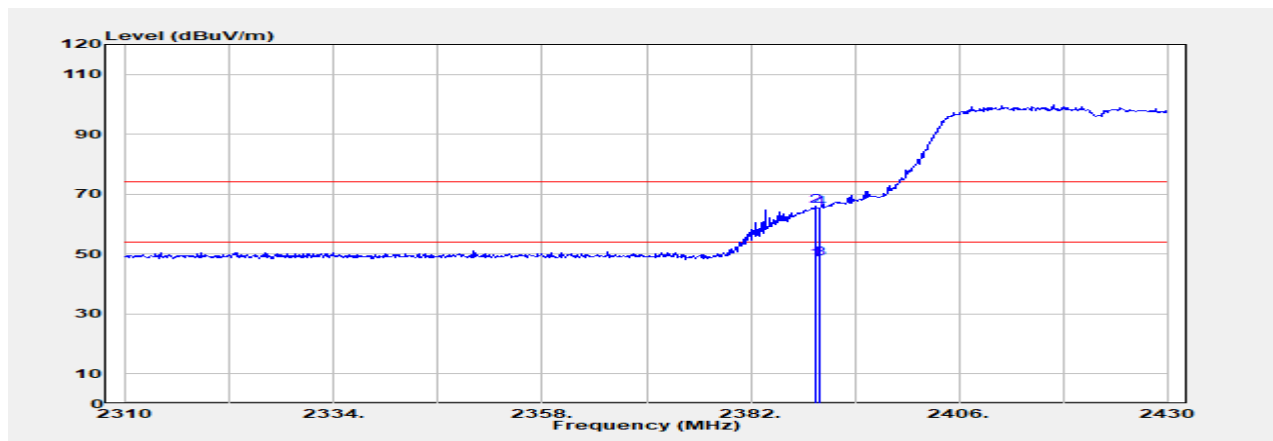
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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



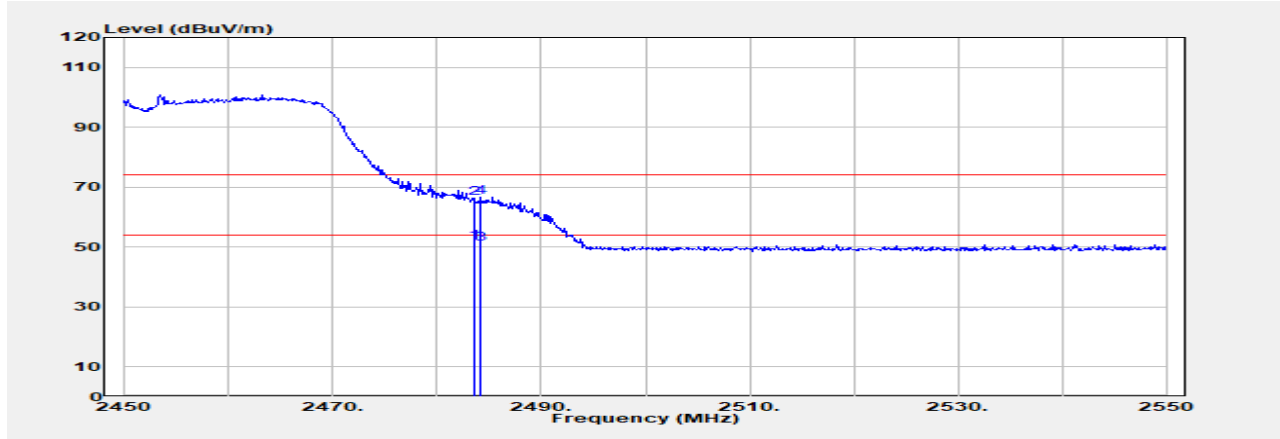
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2389.560	Average	51.97	-3.80	48.17	54.00	-5.83
2389.560	Peak	69.97	-3.80	66.17	74.00	-7.83
2390.000	Average	52.23	-3.80	48.43	54.00	-5.57
2390.000	Peak	69.19	-3.80	65.39	74.00	-8.61

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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	55.62	-3.82	51.80	54.00	-2.20
2483.500	Peak	70.23	-3.82	66.41	74.00	-7.59
2484.200	Average	54.90	-3.81	51.09	54.00	-2.91
2484.200	Peak	70.62	-3.81	66.81	74.00	-7.19

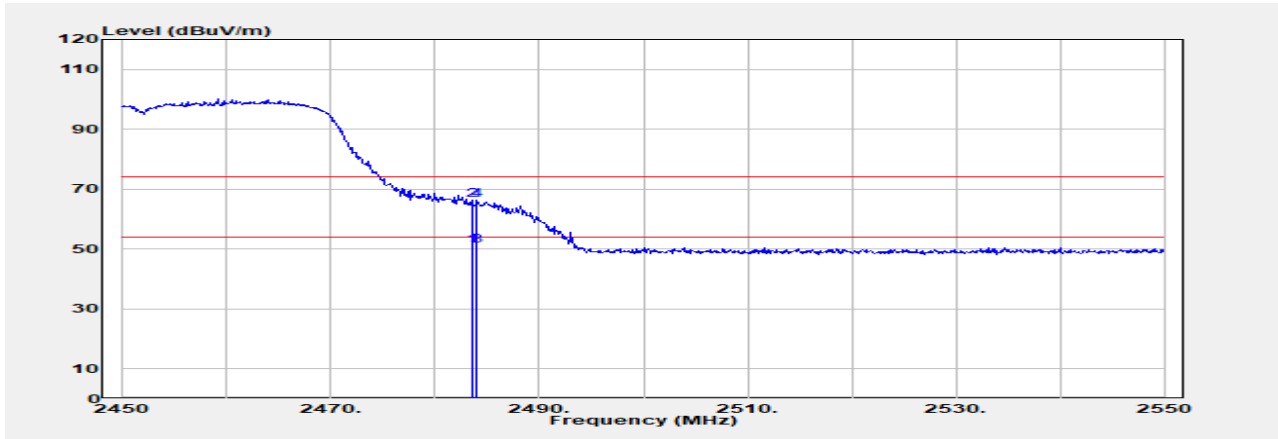
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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	54.74	-3.82	50.92	54.00	-3.08
2483.500	Peak	70.02	-3.82	66.20	74.00	-7.80
2484.000	Average	54.76	-3.82	50.94	54.00	-3.06
2484.000	Peak	70.12	-3.82	66.30	74.00	-7.70

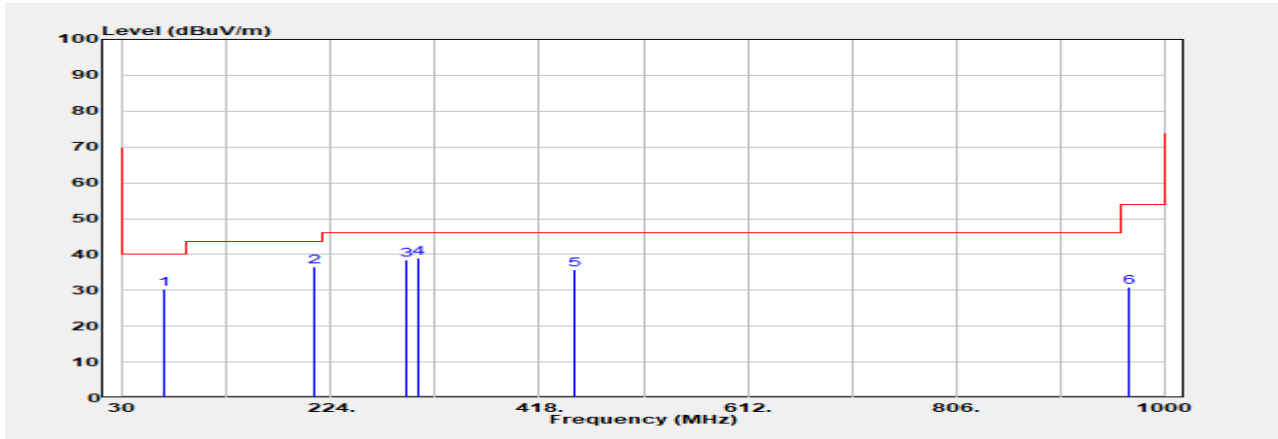
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7.7.2 Spurious Emission:

Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-14
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
67.830	Peak	44.69	-14.43	30.27	40.00	-9.73
208.480	Peak	52.85	-16.33	36.52	43.50	-6.98
293.840	Peak	51.04	-12.61	38.43	46.00	-7.57
304.510	Peak	51.43	-12.31	39.11	46.00	-6.89
450.010	Peak	44.14	-8.32	35.82	46.00	-10.18
967.990	Peak	30.80	0.21	31.01	54.00	-22.99

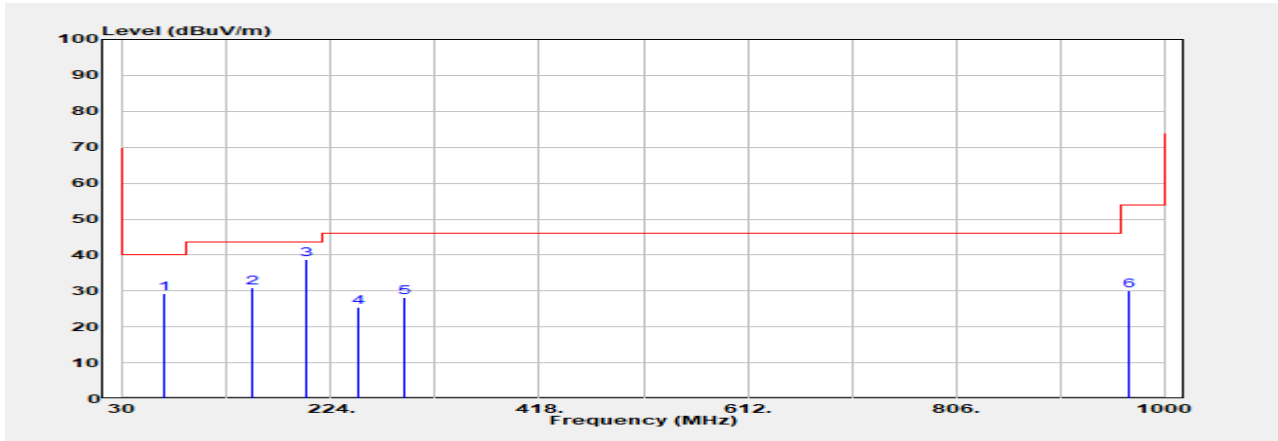
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-14
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
67.830	Peak	43.63	-14.43	29.20	40.00	-10.80
150.280	Peak	44.02	-13.12	30.90	43.50	-12.60
201.690	QP	55.10	-16.25	38.85	43.50	-4.65
250.190	QP	39.70	-14.24	25.46	46.00	-20.54
292.870	QP	40.70	-12.62	28.08	46.00	-17.92
967.020	Peak	29.63	0.32	29.95	54.00	-24.05

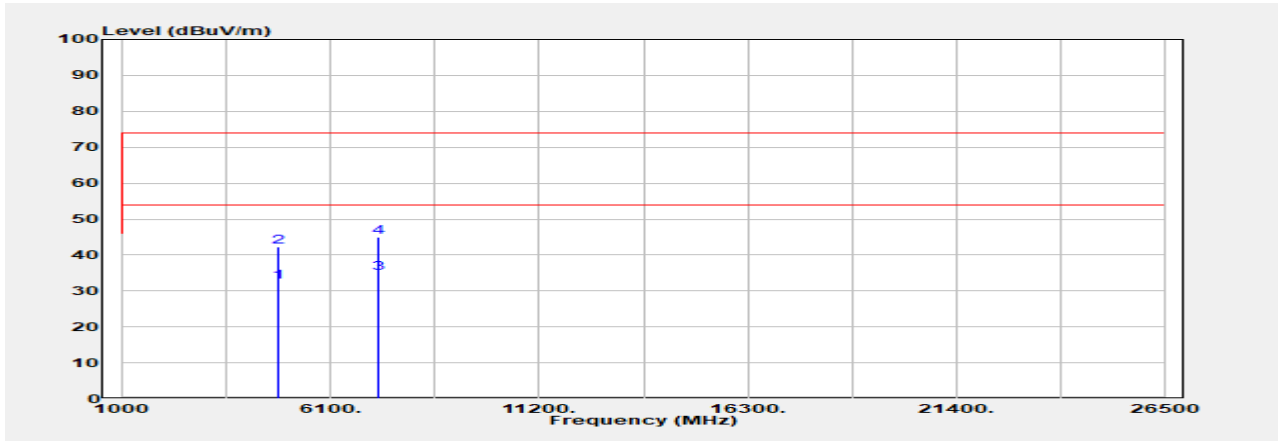
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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.000	Average	29.21	3.31	32.52	54.00	-21.48
4824.000	Peak	39.08	3.31	42.39	74.00	-31.61
7236.000	Average	27.48	7.56	35.04	54.00	-18.96
7236.000	Peak	37.43	7.56	44.99	74.00	-29.01

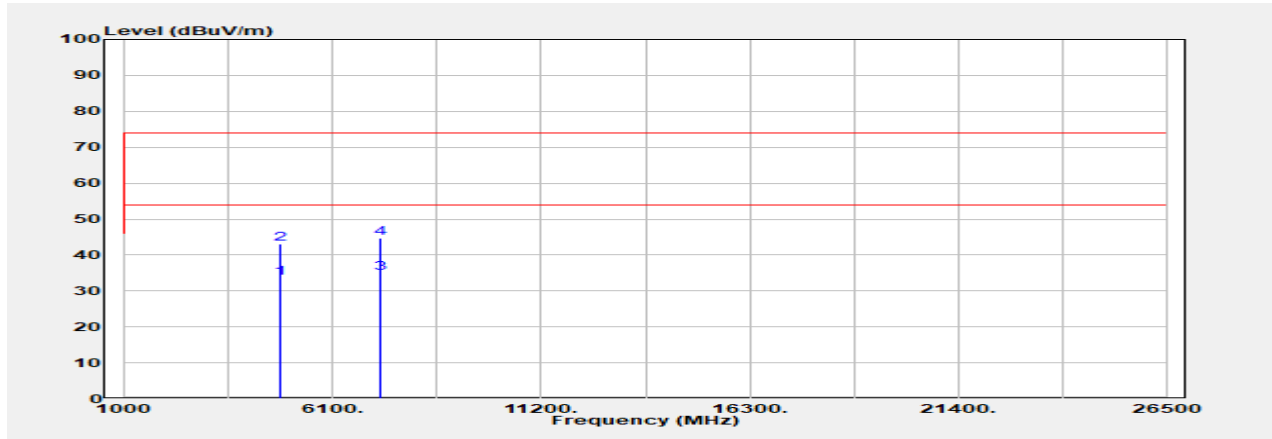
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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.000	Average	30.35	3.31	33.66	54.00	-20.34
4824.000	Peak	39.82	3.31	43.13	74.00	-30.87
7236.000	Average	27.52	7.56	35.07	54.00	-18.93
7236.000	Peak	37.22	7.56	44.78	74.00	-29.22

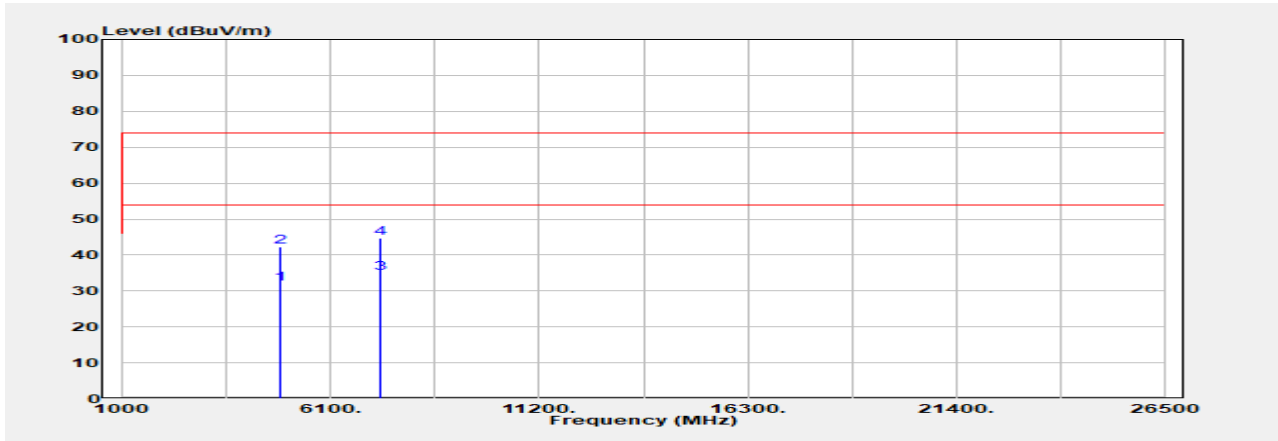
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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	28.42	3.48	31.90	54.00	-22.10
4874.000	Peak	38.80	3.48	42.28	74.00	-31.72
7311.000	Average	27.44	7.62	35.06	54.00	-18.94
7311.000	Peak	37.21	7.62	44.83	74.00	-29.17

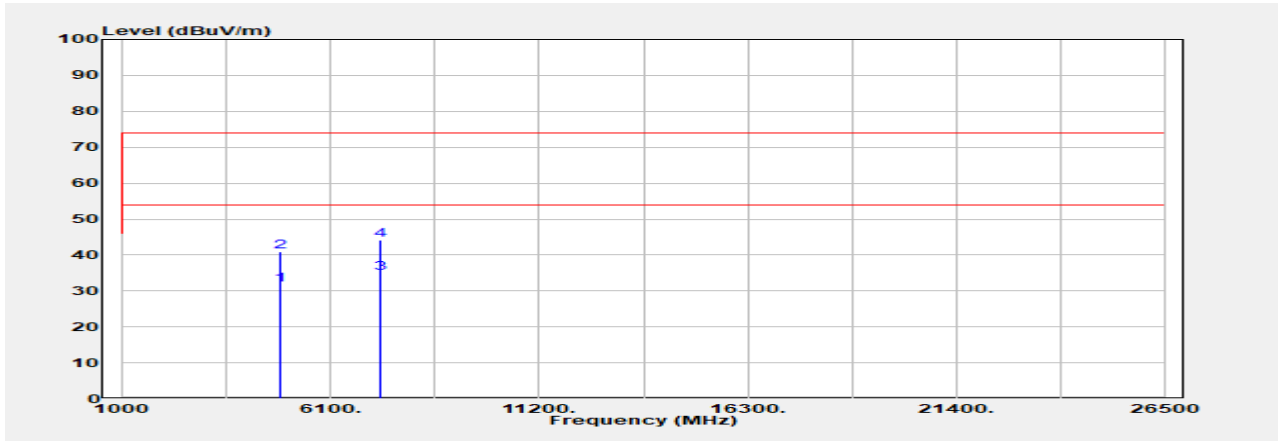
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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	28.09	3.48	31.58	54.00	-22.42
4874.000	Peak	37.44	3.48	40.92	74.00	-33.08
7311.000	Average	27.43	7.62	35.05	54.00	-18.95
7311.000	Peak	36.46	7.62	44.08	74.00	-29.92

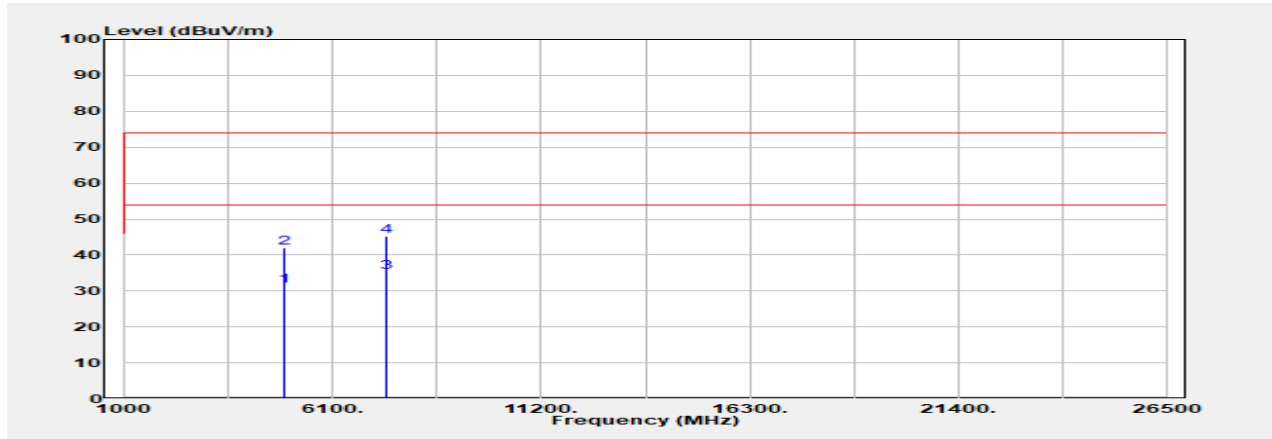
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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.000	Average	28.12	3.41	31.53	54.00	-22.47
4924.000	Peak	38.68	3.41	42.10	74.00	-31.90
7386.000	Average	27.59	7.74	35.33	54.00	-18.67
7386.000	Peak	37.42	7.74	45.16	74.00	-28.84

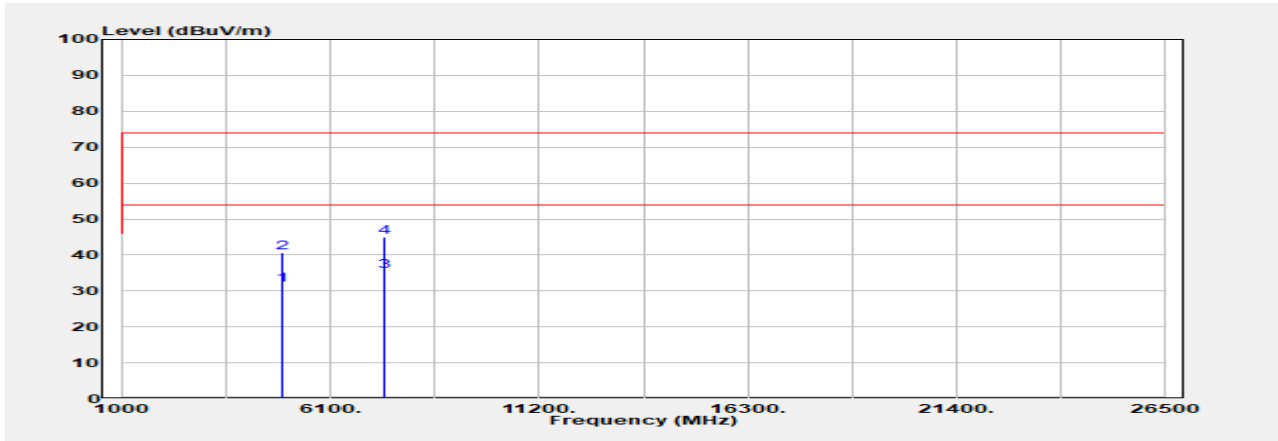
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Report Number :TERF2210002033E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.000	Average	28.30	3.41	31.71	54.00	-22.29
4924.000	Peak	37.25	3.41	40.66	74.00	-33.34
7386.000	Average	27.68	7.74	35.42	54.00	-18.58
7386.000	Peak	37.18	7.74	44.92	74.00	-29.08

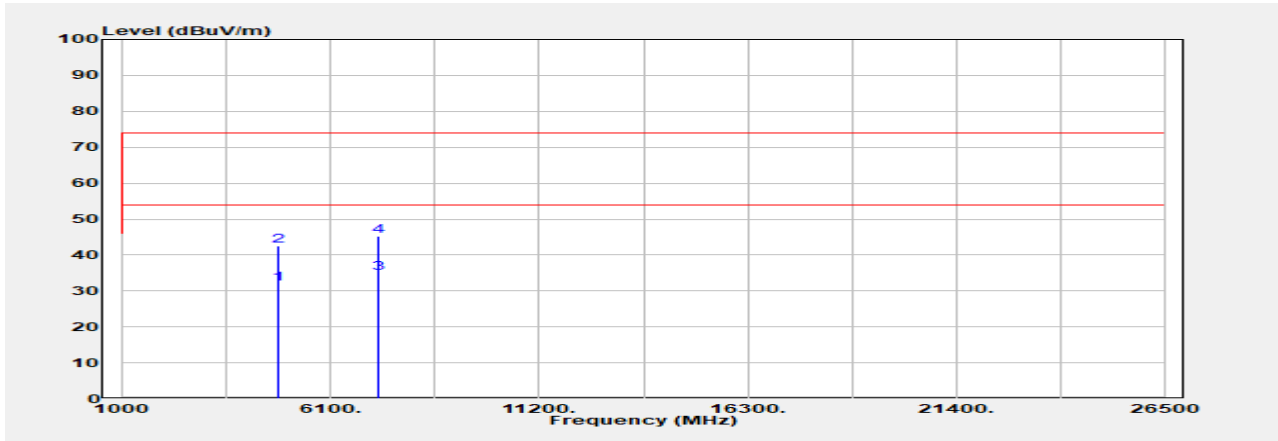
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.000	Average	28.61	3.31	31.92	54.00	-22.08
4824.000	Peak	39.19	3.31	42.50	74.00	-31.50
7236.000	Average	27.38	7.56	34.93	54.00	-19.07
7236.000	Peak	37.68	7.56	45.24	74.00	-28.76

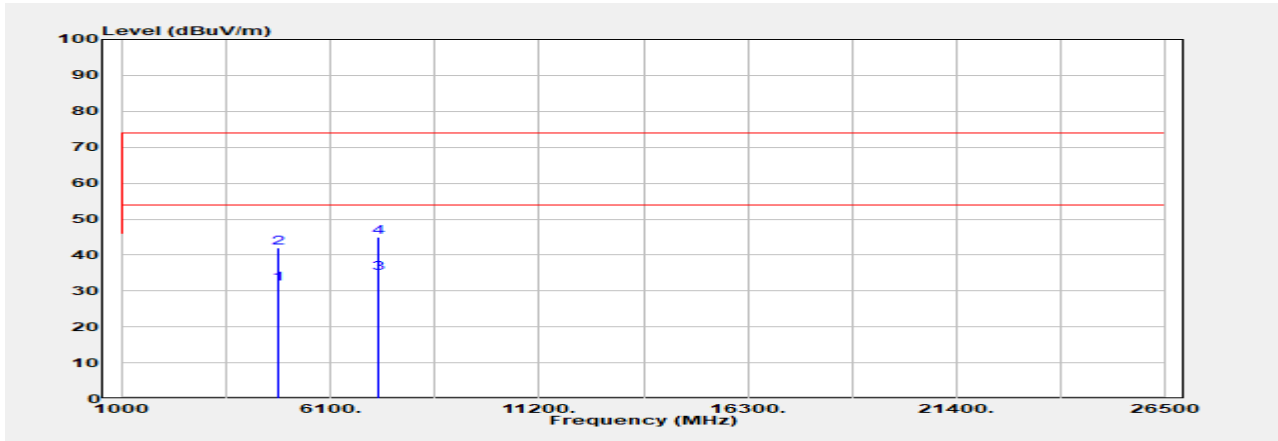
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.000	Average	28.62	3.31	31.93	54.00	-22.07
4824.000	Peak	38.65	3.31	41.97	74.00	-32.03
7236.000	Average	27.49	7.56	35.05	54.00	-18.95
7236.000	Peak	37.31	7.56	44.86	74.00	-29.14

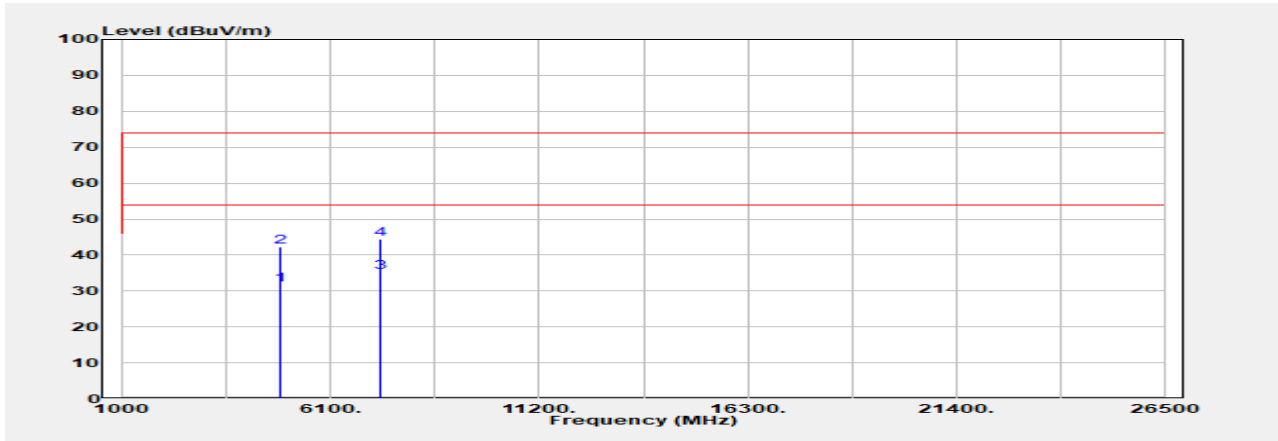
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	28.22	3.48	31.70	54.00	-22.30
4874.000	Peak	38.86	3.48	42.34	74.00	-31.66
7311.000	Average	27.56	7.62	35.18	54.00	-18.82
7311.000	Peak	36.81	7.62	44.44	74.00	-29.56

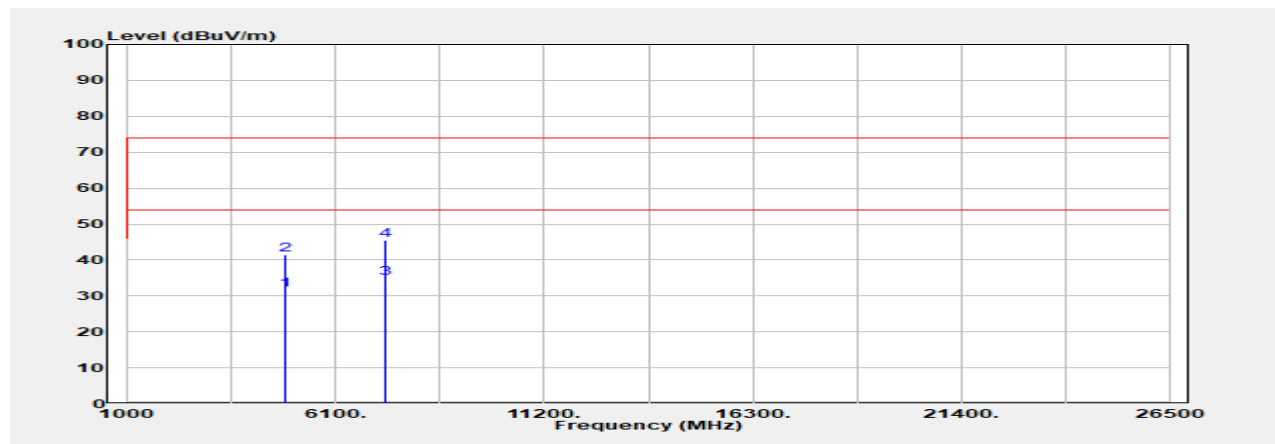
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	28.16	3.48	31.64	54.00	-22.36
4874.000	Peak	38.03	3.48	41.51	74.00	-32.49
7311.000	Average	27.39	7.62	35.01	54.00	-18.99
7311.000	Peak	37.91	7.62	45.53	74.00	-28.47

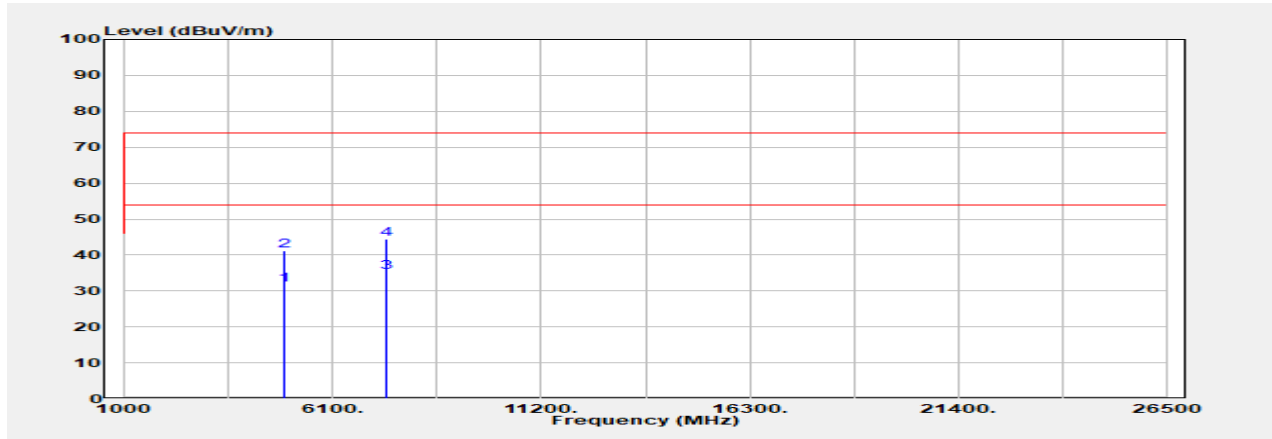
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.000	Average	28.22	3.41	31.63	54.00	-22.37
4924.000	Peak	37.90	3.41	41.31	74.00	-32.69
7386.000	Average	27.54	7.74	35.28	54.00	-18.72
7386.000	Peak	36.69	7.74	44.44	74.00	-29.56

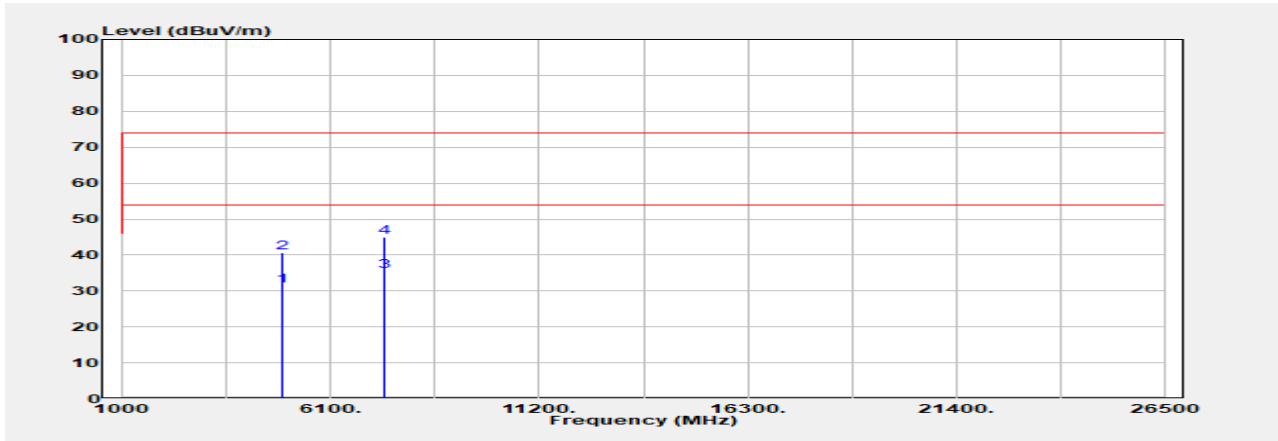
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Report Number :TERF2210002033E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.000	Average	27.95	3.41	31.37	54.00	-22.63
4924.000	Peak	37.14	3.41	40.55	74.00	-33.45
7386.000	Average	27.83	7.74	35.58	54.00	-18.42
7386.000	Peak	37.22	7.74	44.96	74.00	-29.04

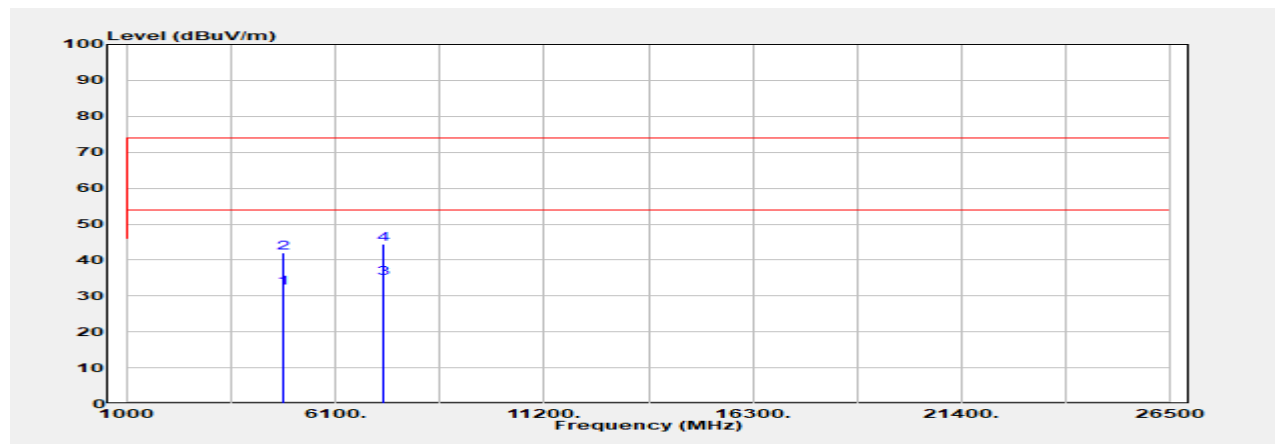
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.000	Average	28.81	3.31	32.12	54.00	-21.88
4824.000	Peak	38.75	3.31	42.06	74.00	-31.94
7236.000	Average	27.32	7.56	34.88	54.00	-19.12
7236.000	Peak	36.86	7.56	44.41	74.00	-29.59

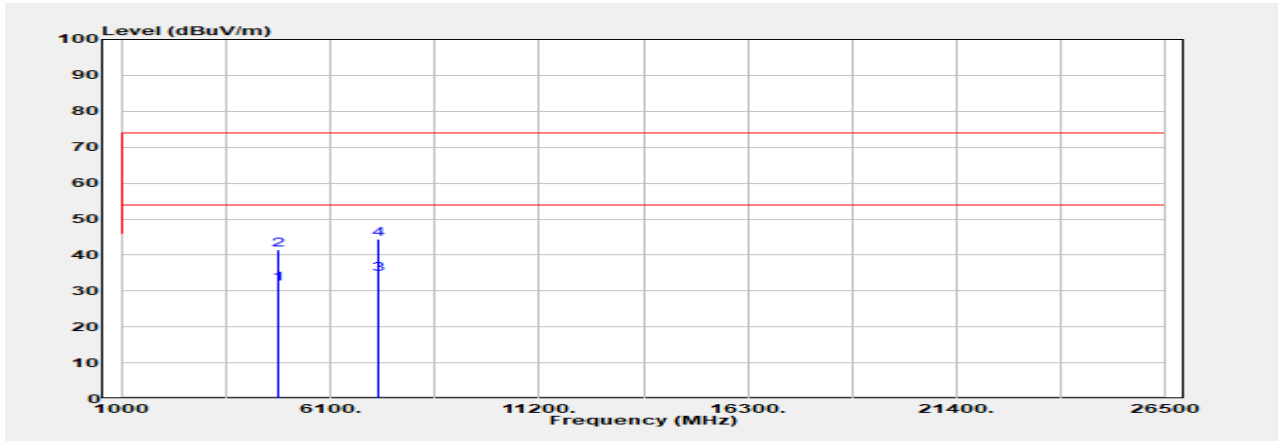
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.000	Average	28.79	3.31	32.10	54.00	-21.90
4824.000	Peak	38.09	3.31	41.40	74.00	-32.60
7236.000	Average	27.24	7.56	34.80	54.00	-19.20
7236.000	Peak	36.79	7.56	44.35	74.00	-29.65

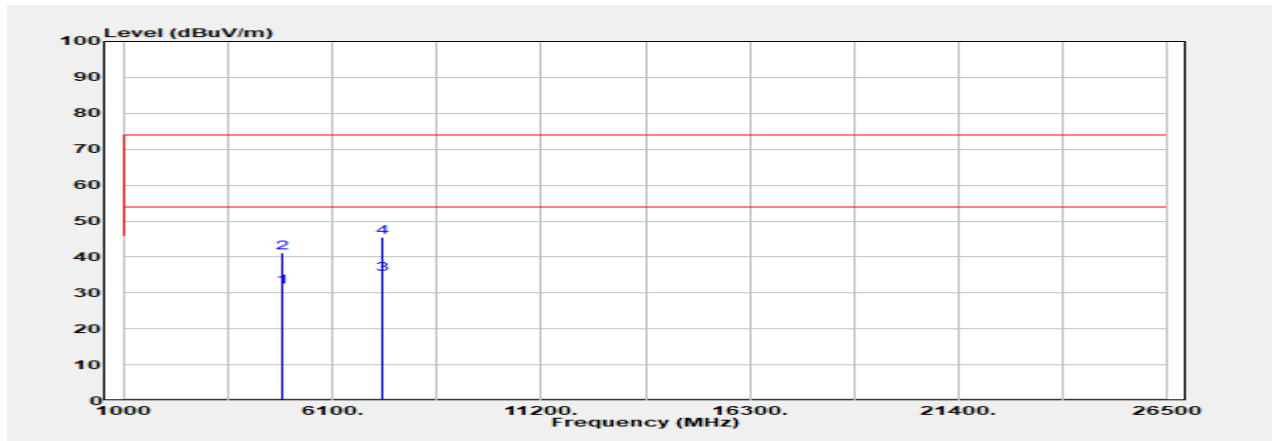
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	28.24	3.48	31.72	54.00	-22.28
4874.000	Peak	37.69	3.48	41.17	74.00	-32.83
7311.000	Average	27.54	7.62	35.17	54.00	-18.83
7311.000	Peak	37.77	7.62	45.40	74.00	-28.60

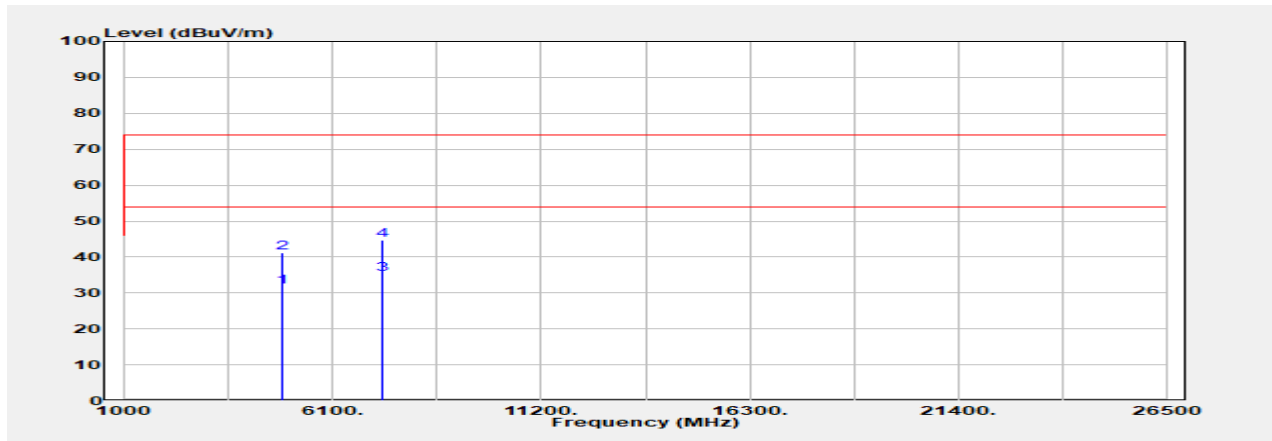
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	28.18	3.48	31.66	54.00	-22.34
4874.000	Peak	37.79	3.48	41.27	74.00	-32.73
7311.000	Average	27.49	7.62	35.11	54.00	-18.89
7311.000	Peak	37.15	7.62	44.77	74.00	-29.23

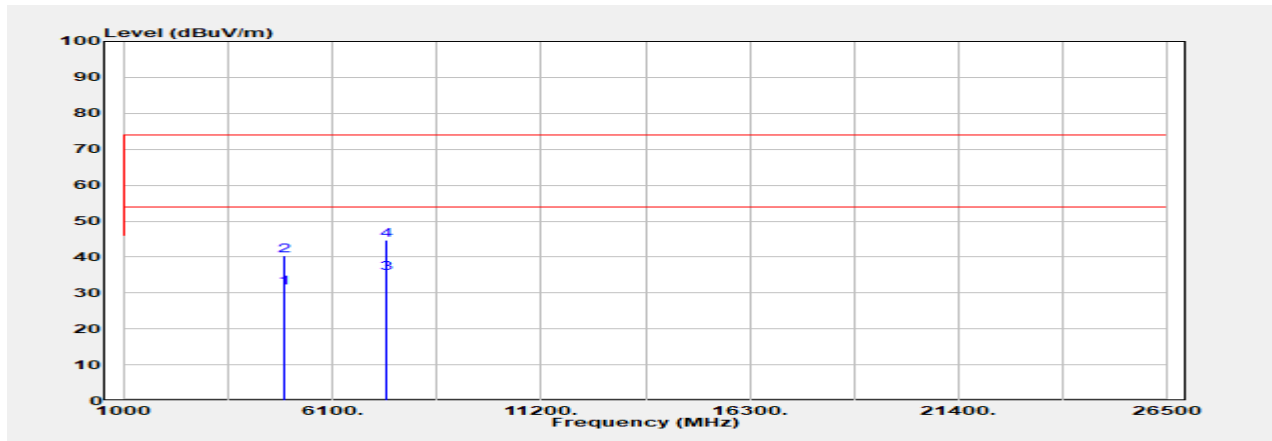
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.000	Average	28.00	3.41	31.42	54.00	-22.58
4924.000	Peak	36.92	3.41	40.33	74.00	-33.67
7386.000	Average	27.74	7.74	35.48	54.00	-18.52
7386.000	Peak	37.02	7.74	44.77	74.00	-29.23

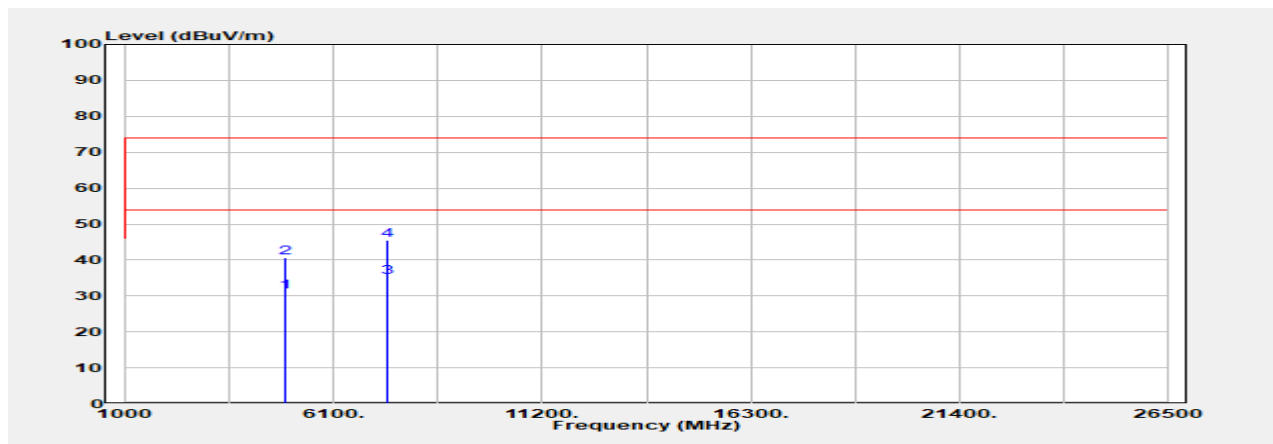
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Report Number :TERF2210002033E2
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.000	Average	27.89	3.41	31.30	54.00	-22.70
4924.000	Peak	37.16	3.41	40.57	74.00	-33.43
7386.000	Average	27.59	7.74	35.33	54.00	-18.67
7386.000	Peak	37.68	7.74	45.43	74.00	-28.57

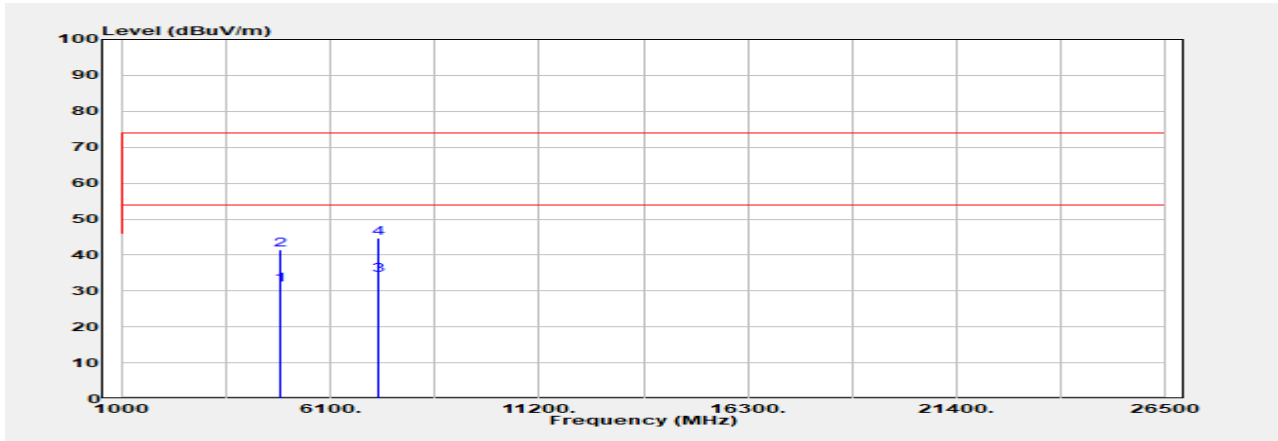
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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4844.000	Average	28.43	3.16	31.59	54.00	-22.41
4844.000	Peak	38.43	3.16	41.59	74.00	-32.41
7266.000	Average	26.11	8.37	34.48	54.00	-19.52
7266.000	Peak	36.27	8.37	44.64	74.00	-29.36

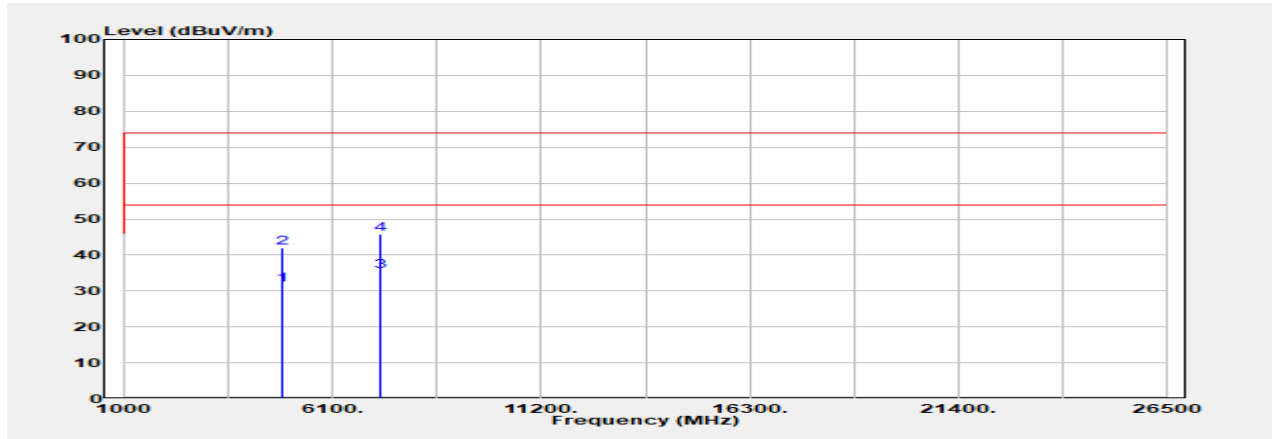
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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



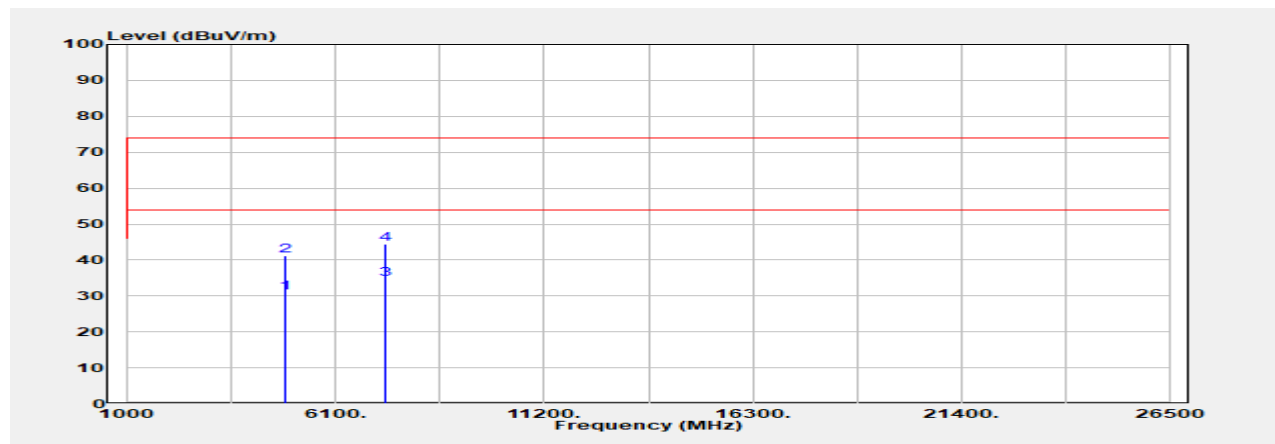
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4844.000	Average	28.43	3.16	31.59	54.00	-22.41
4844.000	Peak	38.91	3.16	42.07	74.00	-31.93
7266.000	Average	27.13	8.37	35.50	54.00	-18.50
7266.000	Peak	37.52	8.37	45.88	74.00	-28.12

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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



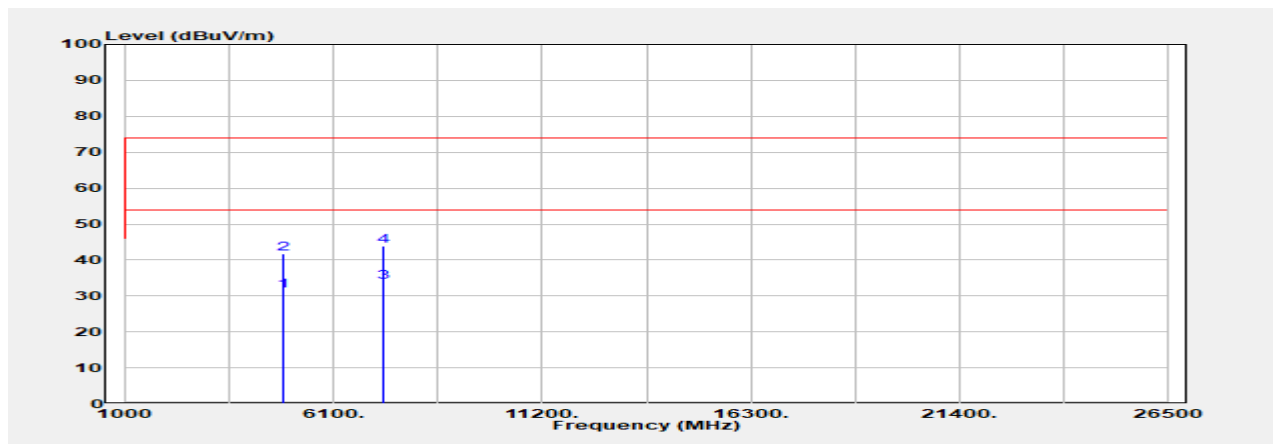
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	27.43	3.48	30.91	54.00	-23.09
4874.000	Peak	37.84	3.48	41.32	74.00	-32.68
7311.000	Average	26.98	7.62	34.60	54.00	-19.40
7311.000	Peak	36.72	7.62	44.35	74.00	-29.65

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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	28.06	3.48	31.54	54.00	-22.46
4874.000	Peak	38.34	3.48	41.82	74.00	-32.18
7311.000	Average	26.13	7.62	33.75	54.00	-20.25
7311.000	Peak	36.39	7.62	44.02	74.00	-29.98

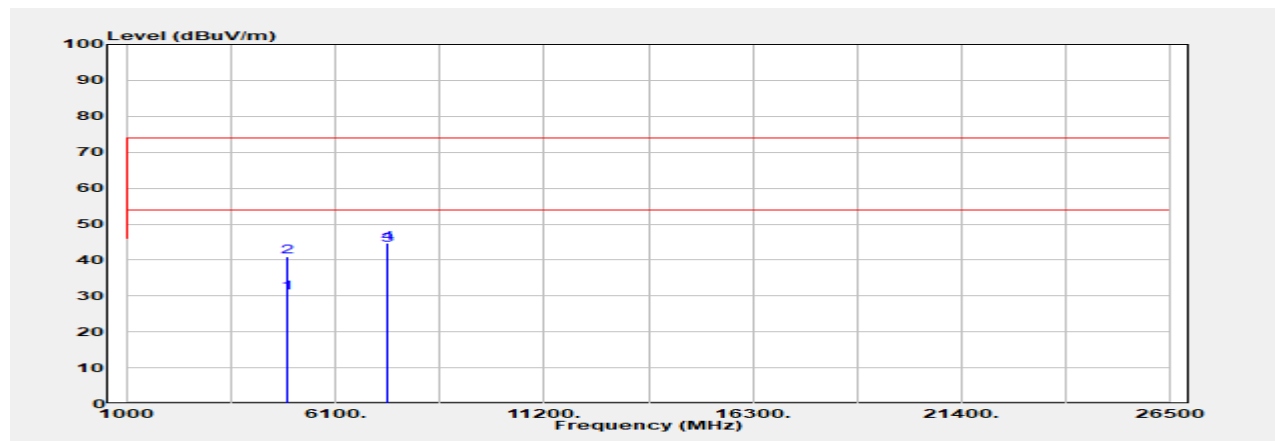
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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :VERTICAL
 Engineer :Temo Chen



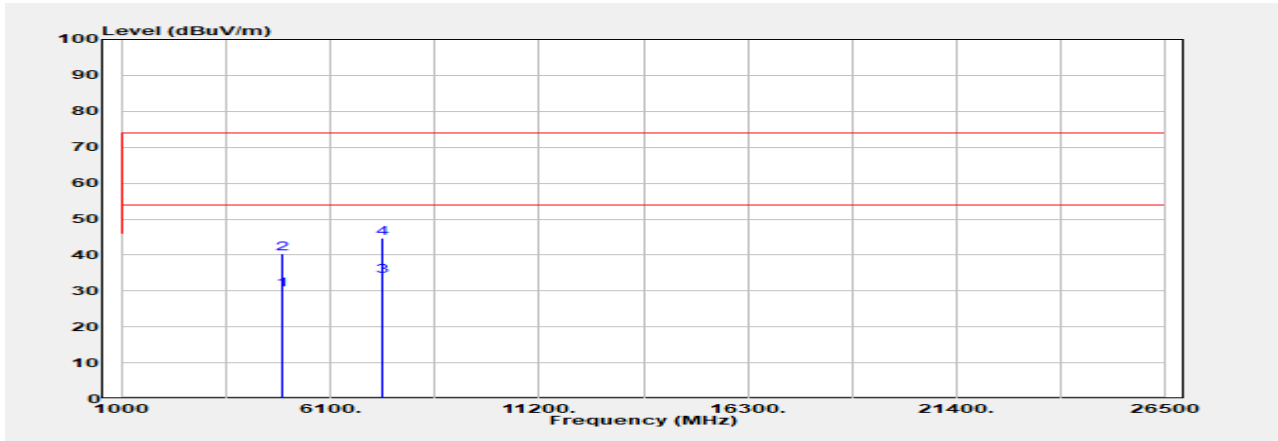
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4904.000	Average	27.59	3.29	30.88	54.00	-23.12
4904.000	Peak	37.60	3.29	40.89	74.00	-33.11
7356.000	Average	36.33	7.97	44.30	54.00	-9.70
7356.000	Peak	36.66	7.97	44.62	74.00	-29.38

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Report Number :TERF2210002033E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G
 Test Date :2022-11-11
 Temp./Humi. :20.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4904.000	Average	27.13	3.29	30.42	54.00	-23.58
4904.000	Peak	37.16	3.29	40.46	74.00	-33.54
7356.000	Average	26.20	7.97	34.17	54.00	-19.83
7356.000	Peak	36.83	7.97	44.79	74.00	-29.21

~ End of Report ~

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