

ELECTROMAGNETIC EMISSIONS COMPLIANCE CLASS II PERMISSIVE CHANGE REPORT



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Manufacturer: MFP MICHELIN
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Cedex9 - France

Product Name: WiFi Module

Brand Name: MICHELIN

Model No.: MI5-TI01

Model Difference: N/A

Report Number: ER/2021/A0022

FCC ID FI5-WL18DBMOD

IC: 5056A-WL18DBMOD

Issue Date: June 23, 2022

Date of Test: October 7, 2021~October 12, 2021

Date of EUT Received: October 5, 2021

Approved By _____

Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

The results of this report relate only to the sample identified in this report.

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

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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
ER/2021/A0022	00	Original.	April 6, 2022	Karen Huang	*
ER/2021/A0022	01	Update FCC applicant address and product name and add manufacturer information.	June 23, 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 of Host

Product Name:	WiFi Module
Brand Name:	MICHELIN
Model No.:	MI5-TI01
Model Difference:	N/A
Hardware Version:	model RV5-01
Firmware Version:	S.4.1.x
EUT Series No.:	050748
Power Supply:	24Vdc

1.2 RF Specification

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Modulation Technology
802.11b	2412~2462	11	15.81	13.90	DSSS
802.11g	2412~2462	11	18.32	13.55	OFDM
802.11n20	2412~2462	11	18.12	12.64	OFDM
802.11n40	2422~2452	7	17.69	11.07	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:6.5 - 144.4Mbps				
	802.11 n_40MHz:13.5 - 300Mbps				

1.3 Antenna Designation

Antenna Type	Freq.	Peak Antenna Gain (dBi)	Worst Antenna Gain
All-In-One	2.4GHz	-0.2	-

Note:

1. Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

- FCC Part 15, Subpart C §15.247
- FCC KDB 558074 D01 DTS Meas. Guidance v05r02
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01
- RSS-247 issue 2 Feb. 2017
- RSS-Gen Issue 5, Amendment 2, February 2021
- ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted 4	TW0028	
		Conducted 5		
		Conducted 6		
		Conduction C		
		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.

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.

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2.4.2 For all conducted test items:

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

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission configuration

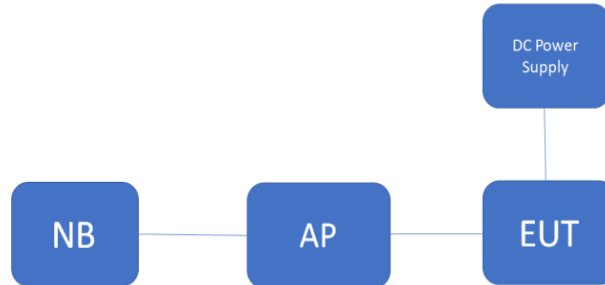


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

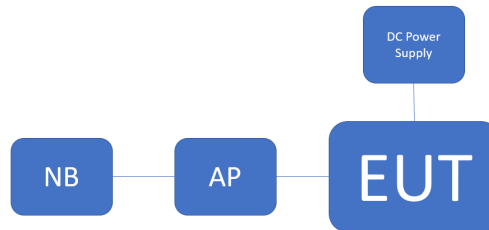


Table 2-1 Equipment Used in Tested System

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L440	R9-00W5LW 14/03	N/A	N/A
Accece Ponit	ASUS	RT-AX89U	K4IUHP000296	N/A	N/A

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-089AH5	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Band Edge & Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n 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

7 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
	Ch0	Ch1	Ch2	Ch3	
<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
<input type="checkbox"/> 802.11 ax	<input 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	ch0

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	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

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
AC Power Line Conducted Emission	+/- 2.34 dB
Peak Output Power	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
100 kHz Bandwidth Of Frequency Band Edges	+/- 1.69 dB
Peak Power Density	+/- 1.53 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz
	+/- 4.93 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz
	+/- 4.45 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

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

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

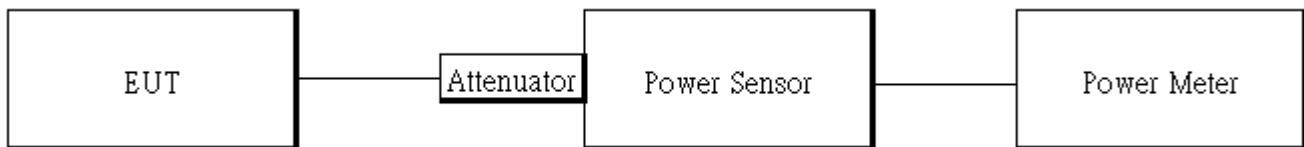
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	09/30/2021	09/29/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Coaxial Cable	Woken	00100A1F1A196S	N/A	N/A	N/A

6.3 Test Set-up

Power Meter:



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6.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

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

6.5 Measurement Result

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	20000	15.81	30.00	PASS
6	2437	1	20000	15.79	30.00	PASS
11	2462	1	20000	15.63	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	20000	14.10	30.00	PASS
6	2437	1	20000	13.91	30.00	PASS
11	2462	1	20000	13.71	30.00	PASS

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802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	17000	17.87	30.00	PASS
6	2437	6	20000	18.32	30.00	PASS
11	2462	6	16500	17.88	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	17000	11.69	30.00	PASS
6	2437	6	20000	13.75	30.00	PASS
11	2462	6	16500	10.81	30.00	PASS

802.11nHT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16500	17.71	30.00	PASS
6	2437	MCS0	20000	18.12	30.00	PASS
11	2462	MCS0	16500	17.73	30.00	PASS

802.11nHT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16500	10.97	30.00	PASS
6	2437	MCS0	20000	12.84	30.00	PASS
11	2462	MCS0	16500	10.59	30.00	PASS

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802.11nHT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15000	17.42	30.00	PASS
6	2437	MCS0	20000	17.69	30.00	PASS
9	2452	MCS0	14500	17.33	30.00	PASS
802.11nHT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15000	9.18	30.00	PASS
6	2437	MCS0	20000	11.27	30.00	PASS
9	2452	MCS0	14500	8.50	30.00	PASS

6.5.1 ISED EIRP

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	14.10	-0.20	13.90	36	PASS
6	2437	1	13.91	-0.20	13.71	36	PASS
11	2462	1	13.71	-0.20	13.51	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	11.69	-0.20	11.49	36	PASS
6	2437	6	13.75	-0.20	13.55	36	PASS
11	2462	6	10.81	-0.20	10.61	36	PASS

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802.11nHT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10.97	-0.20	10.77	36	PASS
6	2437	MCS0	12.84	-0.20	12.64	36	PASS
11	2462	MCS0	10.59	-0.20	10.39	36	PASS

802.11nHT_40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	9.18	-0.20	8.98	36	PASS
6	2437	MCS0	11.27	-0.20	11.07	36	PASS
9	2452	MCS0	8.50	-0.20	8.30	36	PASS

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

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7 RADIATED BANDEdge AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

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

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

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

Note:

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

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7.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZ-BECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZ-BECK	BBHA9120D	1441	09/27/2021	09/26/2022
Bi-log Antenna	SCHWARZ-BECK	VULB9168	378	08/20/2021	08/19/2022
Loop Antenna	ETS.LIND-GREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Site Cal	SGS	SAC 3	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/18/2021	09/17/2022

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

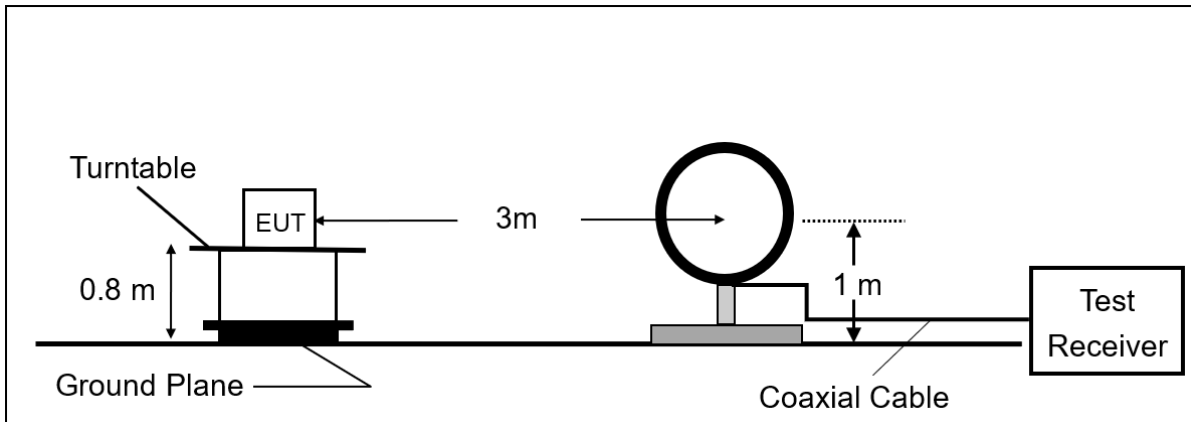
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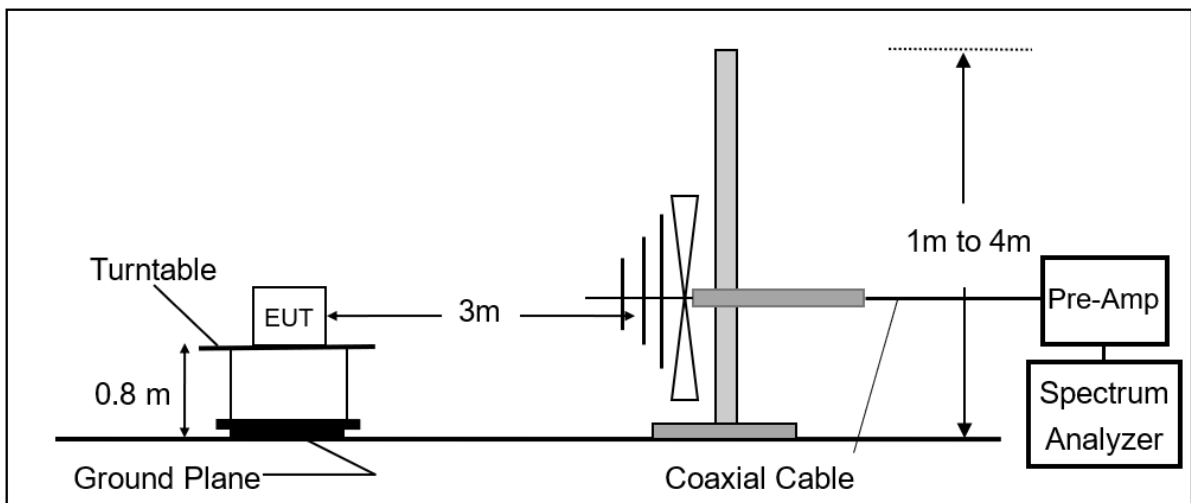
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7.3 Test SET-UP

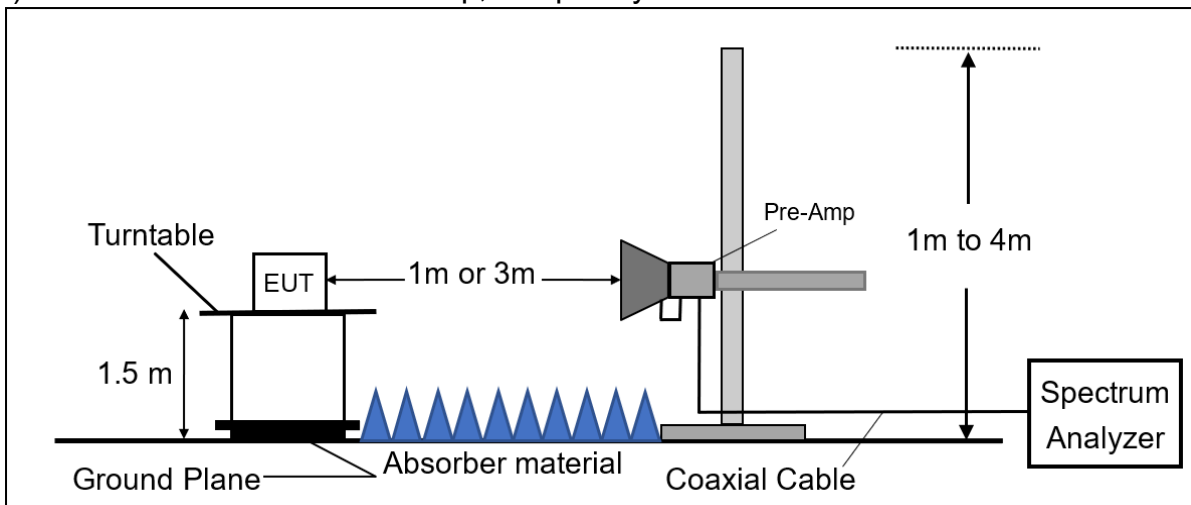
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
9. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
10. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
13. Repeat above procedures until all default test channel measured were complete.

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7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

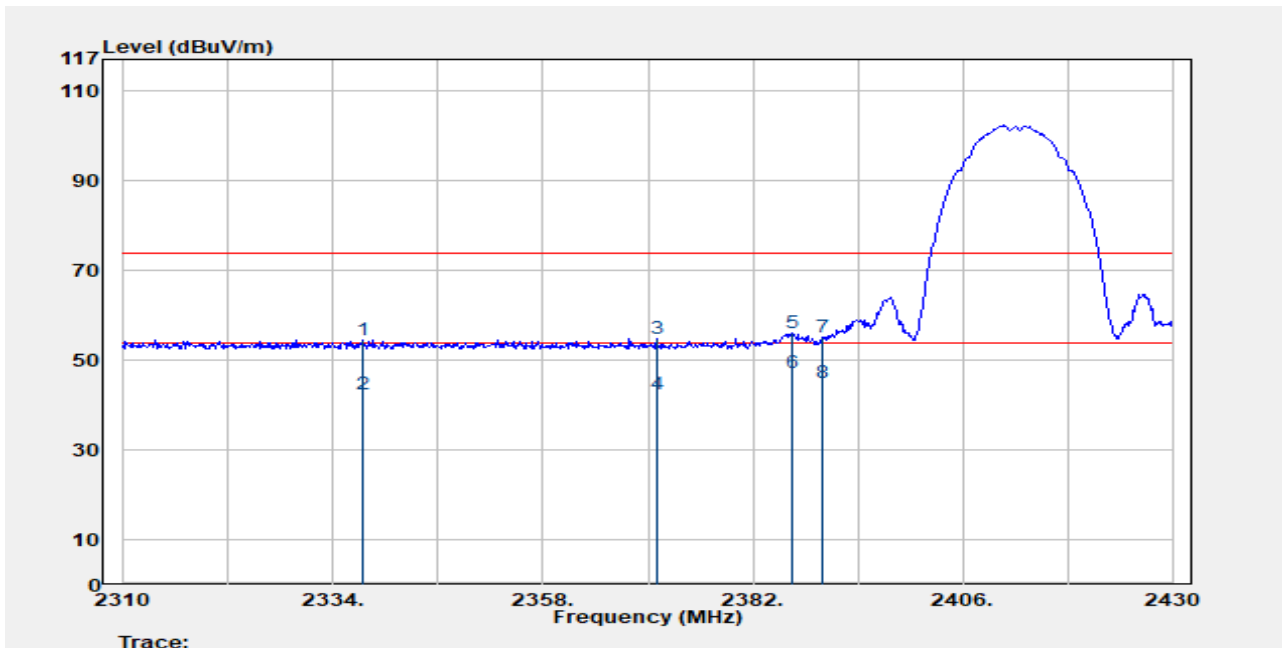
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7.7.1 Radiated Band Edge Measurement Result

Report Number	:ER-2021-A0022	Test Site	:SAC 3
Operation Mode	:802.11b	Test Date	:2021-10-08
Test Frequency	:2412 MHz	Temp./Humi.	:26.3/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Ricky Chen



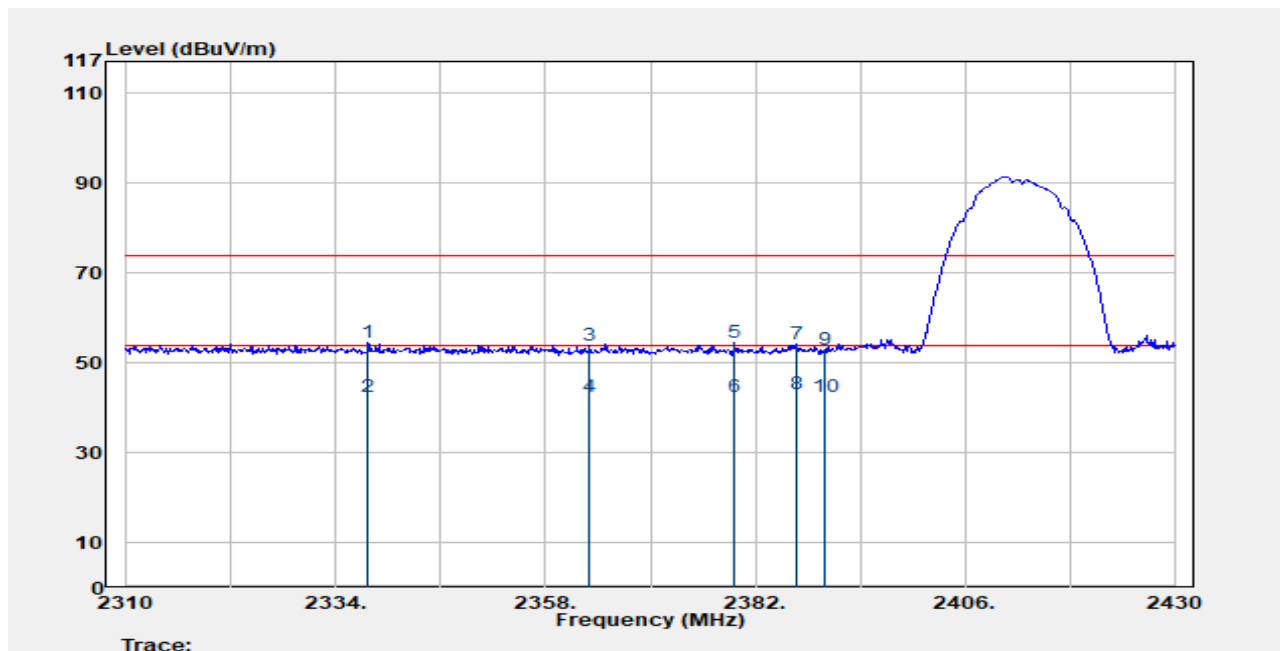
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2337.360	Peak	53.58	1.05	54.63	74.00	-19.37
2337.360	Average	41.58	1.05	42.63	54.00	-11.37
2370.960	Peak	53.92	0.96	54.87	74.00	-19.13
2370.960	Average	41.67	0.96	42.63	54.00	-11.37
2386.440	Peak	55.10	0.92	56.02	74.00	-17.98
2386.440	Average	46.45	0.92	47.37	54.00	-6.63
2390.000	Peak	54.27	0.92	55.18	74.00	-18.82
2390.000	Average	44.16	0.92	45.08	54.00	-8.92

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Report Number	:ER-2021-A0022	Test Site	:SAC 3
Operation Mode	:802.11b	Test Date	:2021-10-08
Test Frequency	:2412 MHz	Temp./Humi.	:26.3/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2337.600	Peak	53.60	1.05	54.66	74.00	-19.34
2337.600	Average	41.39	1.05	42.44	54.00	-11.56
2363.040	Peak	52.99	0.97	53.97	74.00	-20.03
2363.040	Average	41.39	0.97	42.36	54.00	-11.64
2379.600	Peak	53.68	0.94	54.62	74.00	-19.38
2379.600	Average	41.45	0.94	42.39	54.00	-11.61
2386.800	Peak	53.37	0.92	54.30	74.00	-19.70
2386.800	Average	42.29	0.92	43.21	54.00	-10.79
2390.000	Peak	52.17	0.92	53.08	74.00	-20.92
2390.000	Average	41.61	0.92	42.53	54.00	-11.47

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Report Number :ER-2021-A0022

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

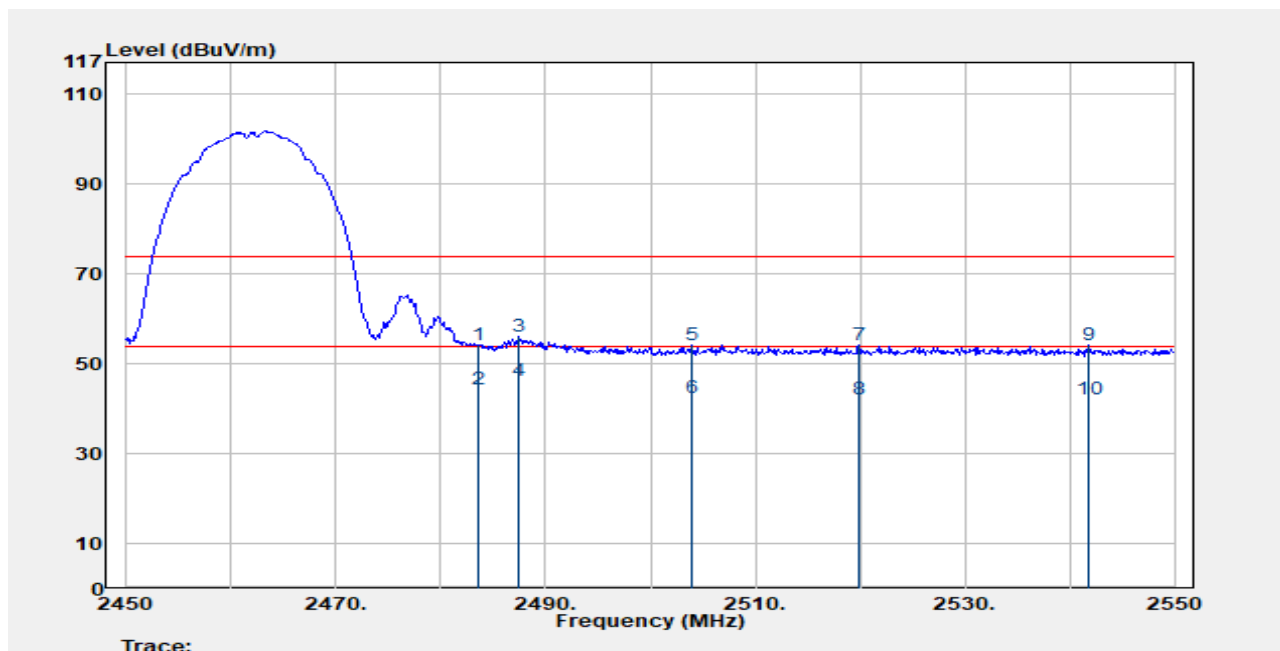
Test Site :SAC 3

Test Date :2021-10-08

Temp./Humi. :26.3/61

Antenna Pol. :Vertical

Engineer :Ricky Chen



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	Peak	53.51	0.67	54.18	74.00	-19.82
2483.500	Average	43.86	0.67	44.53	54.00	-9.47
2487.500	Peak	55.34	0.65	56.00	74.00	-18.00
2487.500	Average	45.65	0.65	46.30	54.00	-7.70
2503.900	Peak	53.66	0.62	54.28	74.00	-19.72
2503.900	Average	41.77	0.62	42.39	54.00	-11.61
2519.900	Peak	53.61	0.69	54.30	74.00	-19.70
2519.900	Average	41.49	0.69	42.18	54.00	-11.82
2541.900	Peak	53.35	0.78	54.12	74.00	-19.88
2541.900	Average	41.41	0.78	42.19	54.00	-11.81

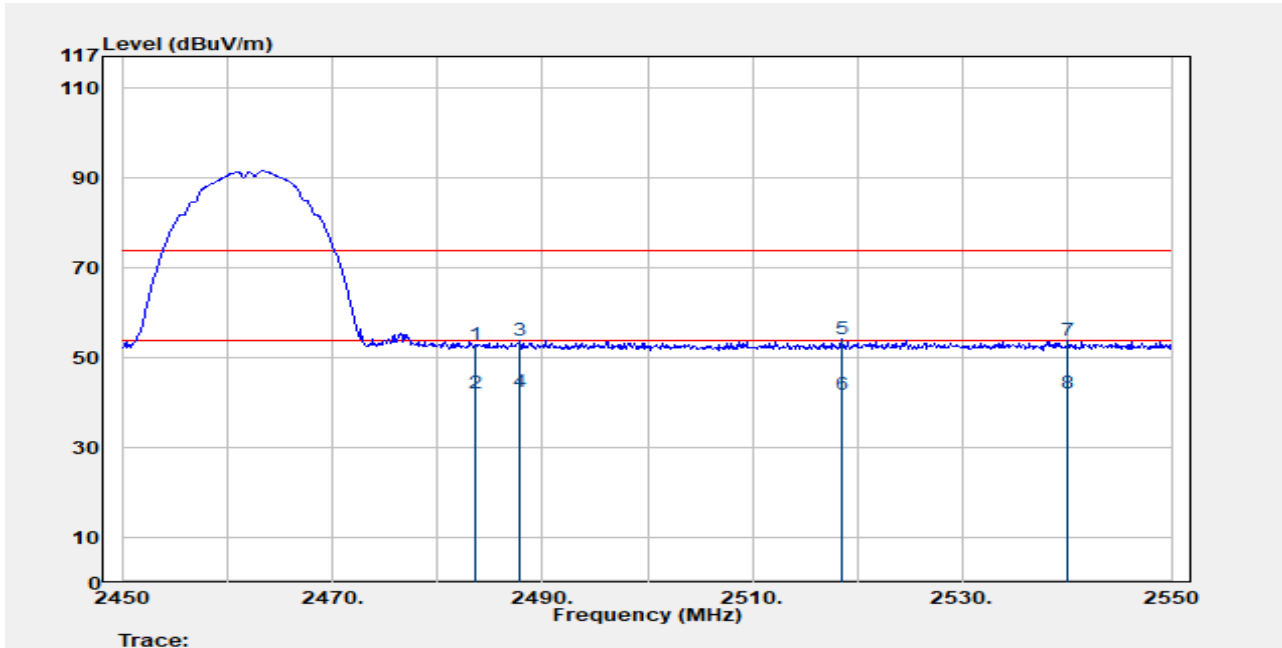
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Report Number :ER-2021-A0022
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	52.24	0.67	52.91	74.00	-21.09
2483.500	Average	41.52	0.67	42.19	54.00	-11.81
2487.800	Peak	53.24	0.65	53.89	74.00	-20.11
2487.800	Average	41.73	0.65	42.38	54.00	-11.62
2518.500	Peak	53.57	0.68	54.25	74.00	-19.75
2518.500	Average	41.26	0.68	41.94	54.00	-12.06
2540.100	Peak	53.04	0.77	53.81	74.00	-20.19
2540.100	Average	41.31	0.77	42.08	54.00	-11.92

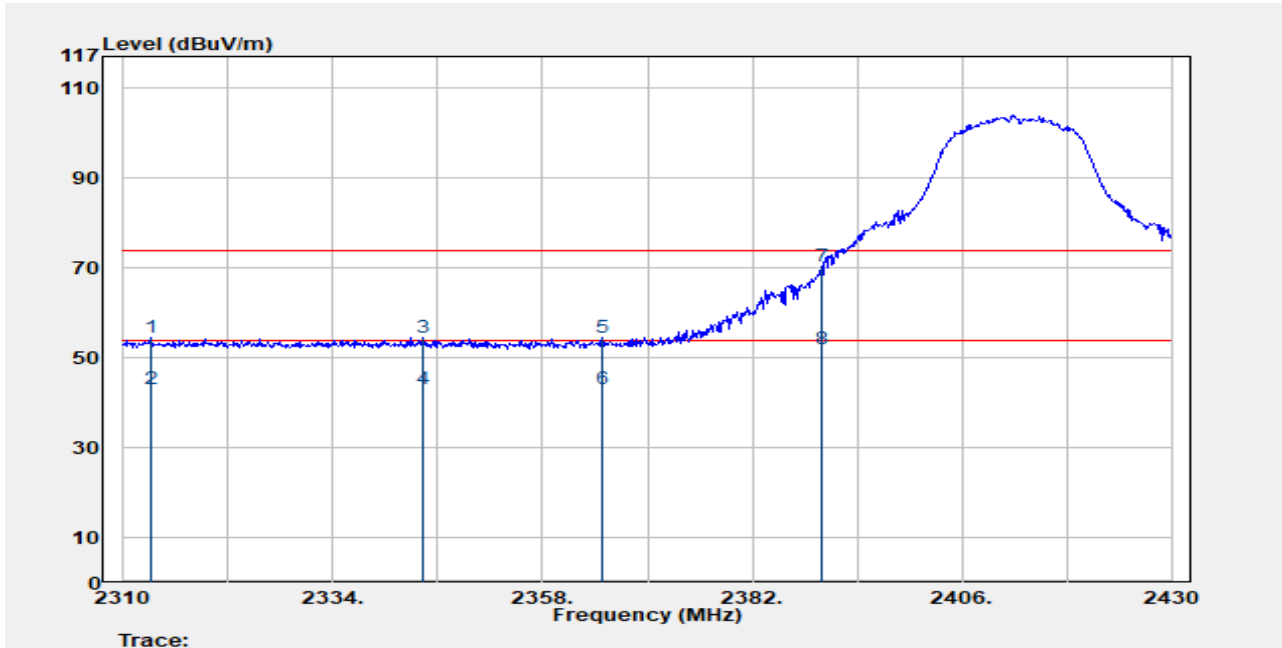
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



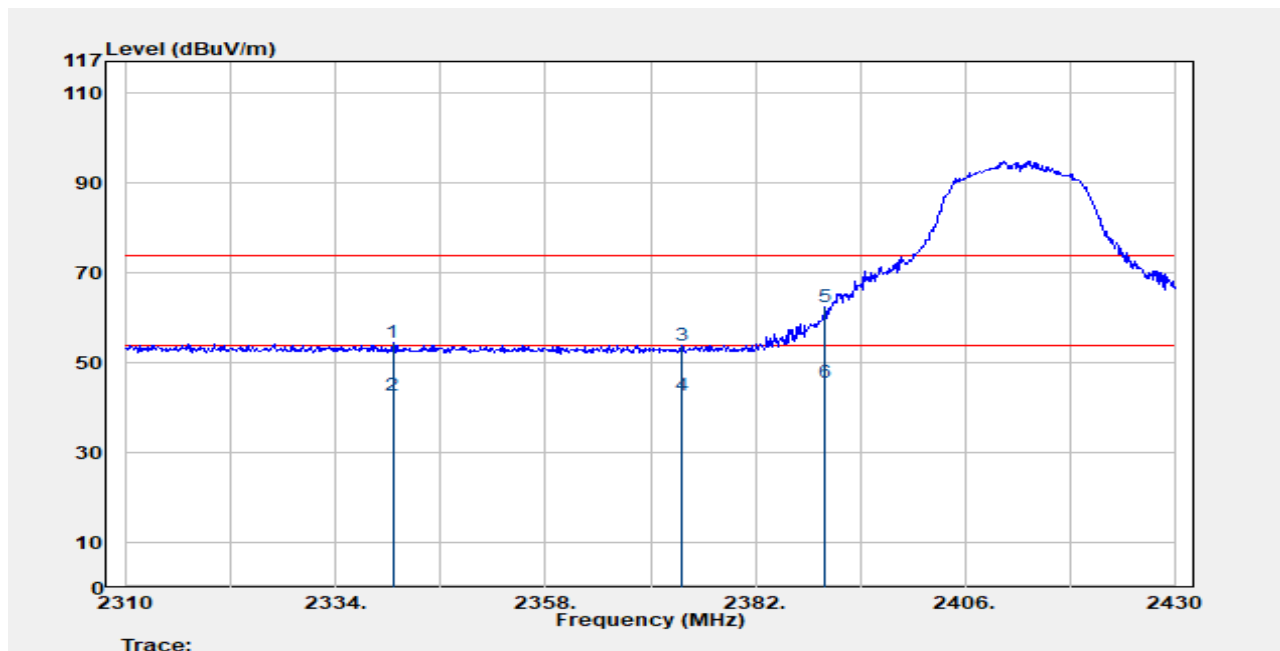
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2313.240	Peak	53.33	1.15	54.48	74.00	-19.52
2313.240	Average	42.11	1.15	43.26	54.00	-10.74
2344.320	Peak	53.48	1.03	54.51	74.00	-19.49
2344.320	Average	42.09	1.03	43.12	54.00	-10.88
2364.720	Peak	53.70	0.97	54.67	74.00	-19.33
2364.720	Average	42.18	0.97	43.15	54.00	-10.85
2390.000	Peak	69.32	0.92	70.23	74.00	-3.77
2390.000	Average	51.00	0.92	51.92	54.00	-2.08

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Report Number	:ER-2021-A0022	Test Site	:SAC 3
Operation Mode	:802.11g	Test Date	:2021-10-08
Test Frequency	:2412 MHz	Temp./Humi.	:26.3/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Ricky Chen



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
2340.480	Peak	53.39	1.04	54.43	74.00	-19.57
2340.480	Average	41.80	1.04	42.84	54.00	-11.16
2373.480	Peak	52.93	0.95	53.88	74.00	-20.12
2373.480	Average	41.98	0.95	42.93	54.00	-11.07
2390.000	Peak	61.56	0.92	62.47	74.00	-11.53
2390.000	Average	44.69	0.92	45.61	54.00	-8.39

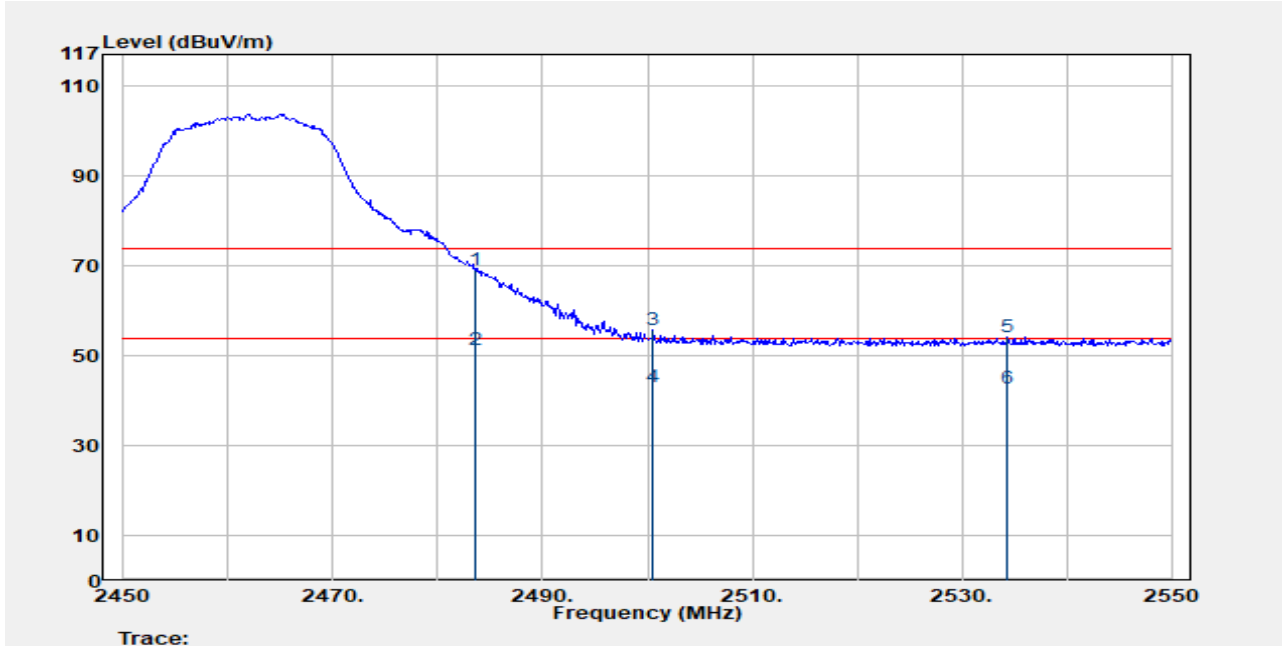
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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	Peak	68.54	0.67	69.21	74.00	-4.79
2483.500	Average	50.85	0.67	51.52	54.00	-2.48
2500.500	Peak	55.06	0.61	55.67	74.00	-18.33
2500.500	Average	42.49	0.61	43.10	54.00	-10.90
2534.400	Peak	53.47	0.75	54.22	74.00	-19.78
2534.400	Average	42.04	0.75	42.79	54.00	-11.21

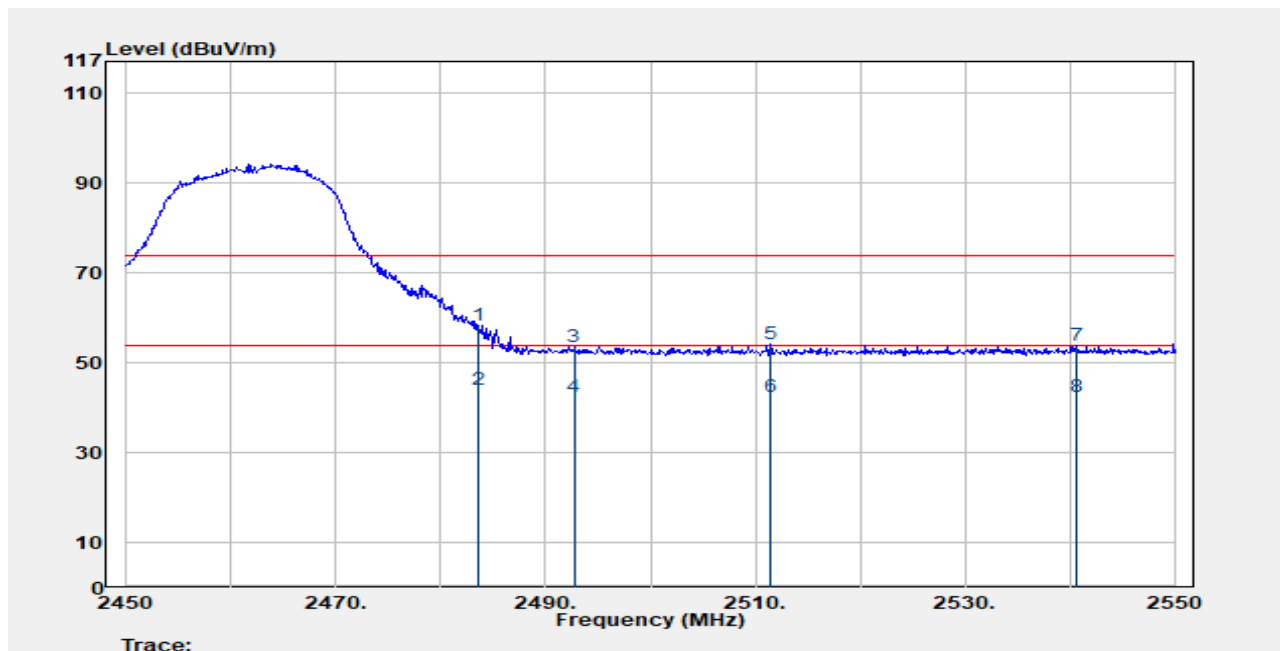
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	57.61	0.67	58.28	74.00	-15.72
2483.500	Average	43.28	0.67	43.95	54.00	-10.05
2492.700	Peak	53.03	0.63	53.67	74.00	-20.33
2492.700	Average	41.93	0.63	42.56	54.00	-11.44
2511.500	Peak	53.58	0.65	54.23	74.00	-19.77
2511.500	Average	41.72	0.65	42.37	54.00	-11.63
2540.600	Peak	53.04	0.77	53.81	74.00	-20.19
2540.600	Average	41.81	0.77	42.58	54.00	-11.42

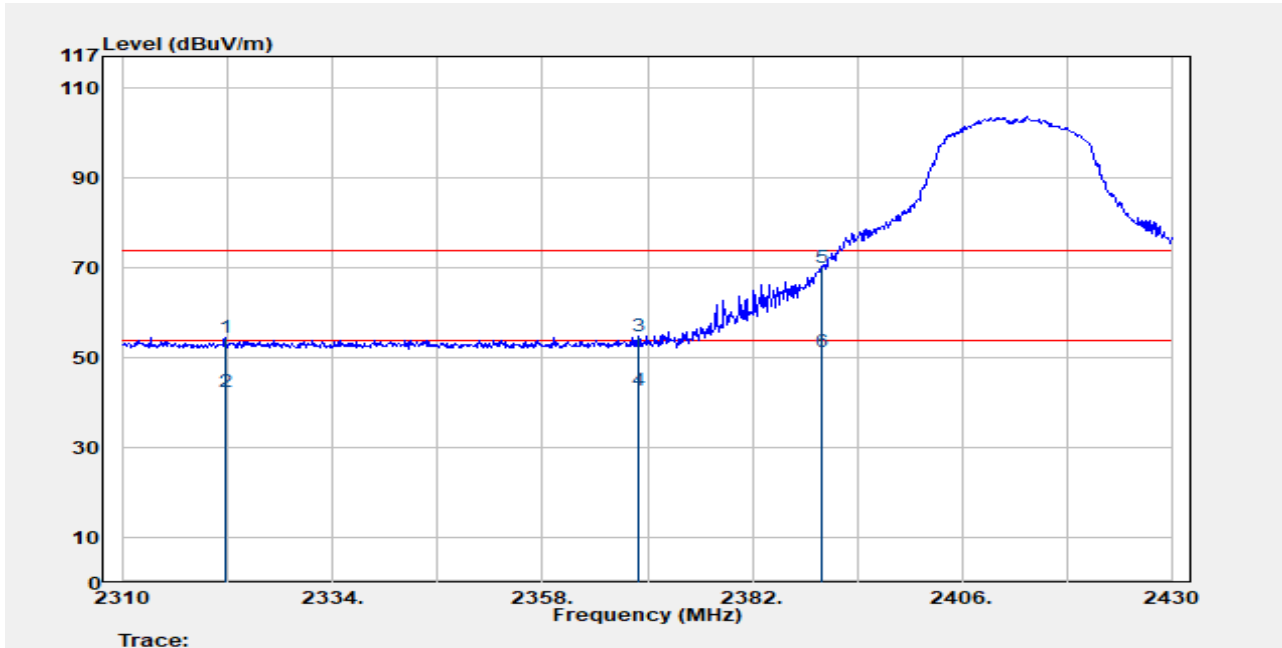
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



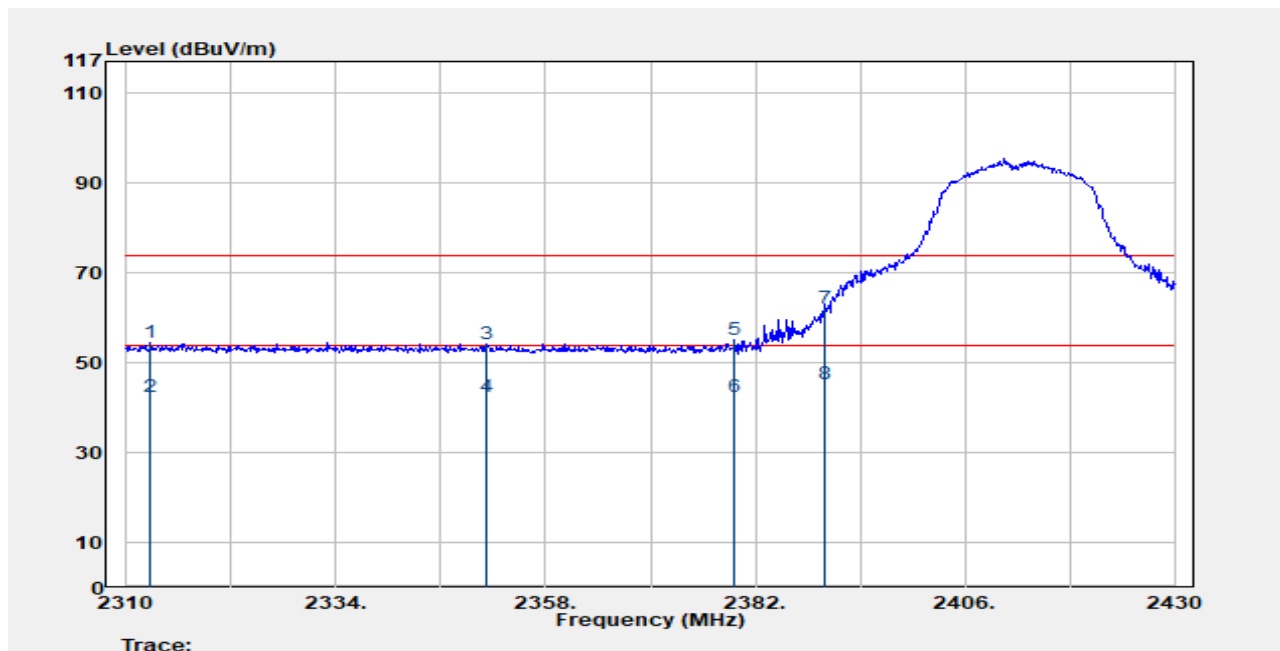
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2321.640	Peak	53.42	1.12	54.54	74.00	-19.46
2321.640	Average	41.48	1.12	42.60	54.00	-11.40
2368.920	Peak	54.01	0.96	54.98	74.00	-19.02
2368.920	Average	41.69	0.96	42.65	54.00	-11.35
2390.000	Peak	69.29	0.92	70.21	74.00	-3.79
2390.000	Average	50.55	0.92	51.47	54.00	-2.53

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Report Number	:ER-2021-A0022	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2021-10-08
Test Frequency	:2412 MHz	Temp./Humi.	:26.3/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Ricky Chen



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
2312.760	Peak	53.38	1.15	54.54	74.00	-19.46
2312.760	Average	41.34	1.15	42.49	54.00	-11.51
2351.280	Peak	53.37	1.00	54.37	74.00	-19.63
2351.280	Average	41.41	1.00	42.41	54.00	-11.59
2379.600	Peak	54.11	0.94	55.05	74.00	-18.95
2379.600	Average	41.51	0.94	42.45	54.00	-11.55
2390.000	Peak	61.25	0.92	62.17	74.00	-11.83
2390.000	Average	44.43	0.92	45.35	54.00	-8.65

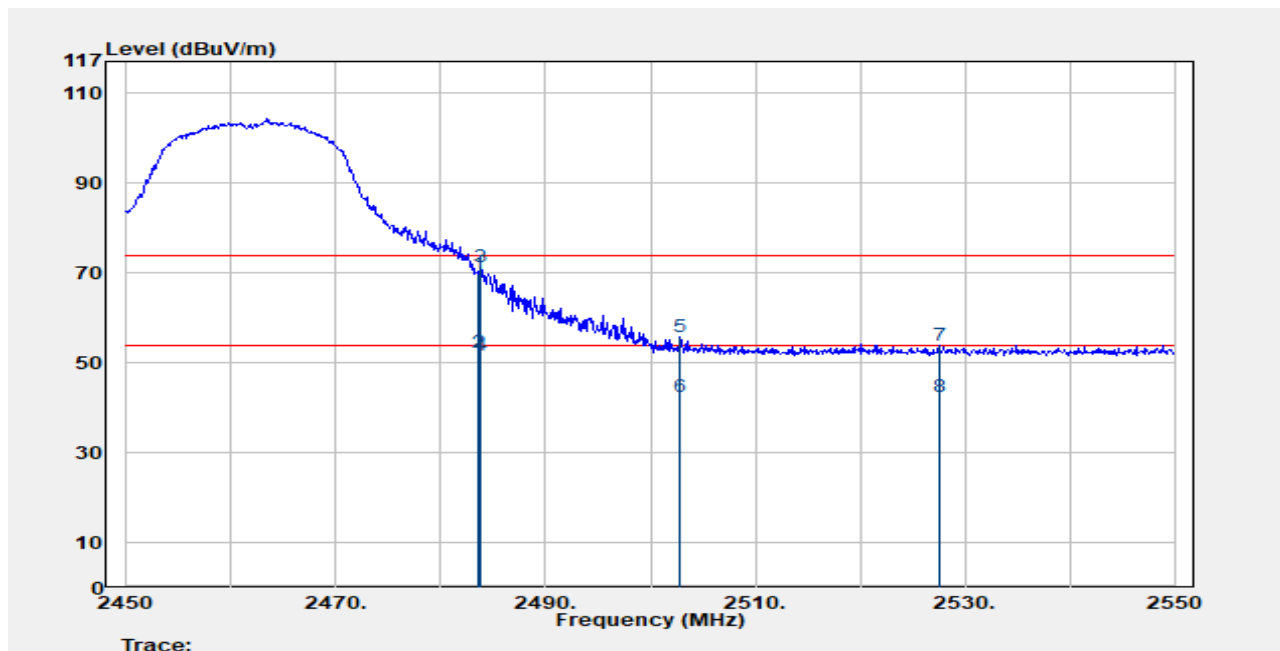
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Peak	69.19	0.67	69.86	74.00	-4.14
2483.500	Average	51.62	0.67	52.29	54.00	-1.71
2483.700	Peak	70.61	0.67	71.28	74.00	-2.72
2483.700	Average	51.05	0.67	51.72	54.00	-2.28
2502.800	Peak	55.27	0.62	55.89	74.00	-18.11
2502.800	Average	41.91	0.62	42.53	54.00	-11.47
2527.500	Peak	53.21	0.72	53.93	74.00	-20.07
2527.500	Average	41.63	0.72	42.35	54.00	-11.65

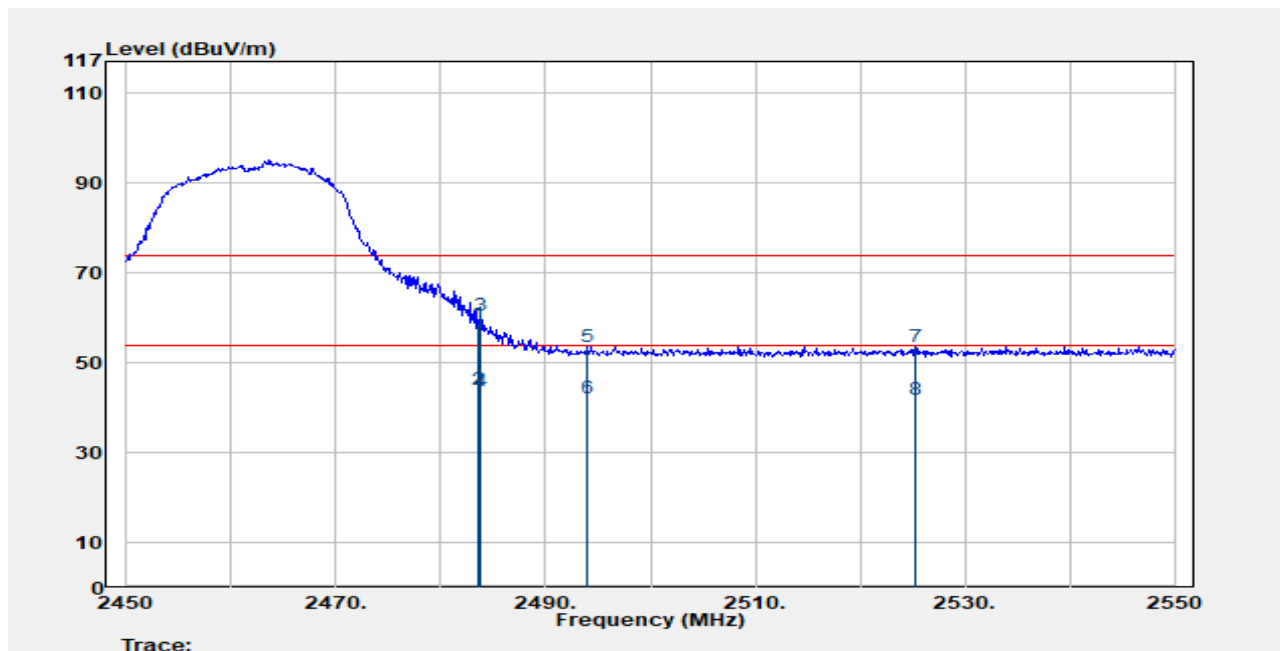
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



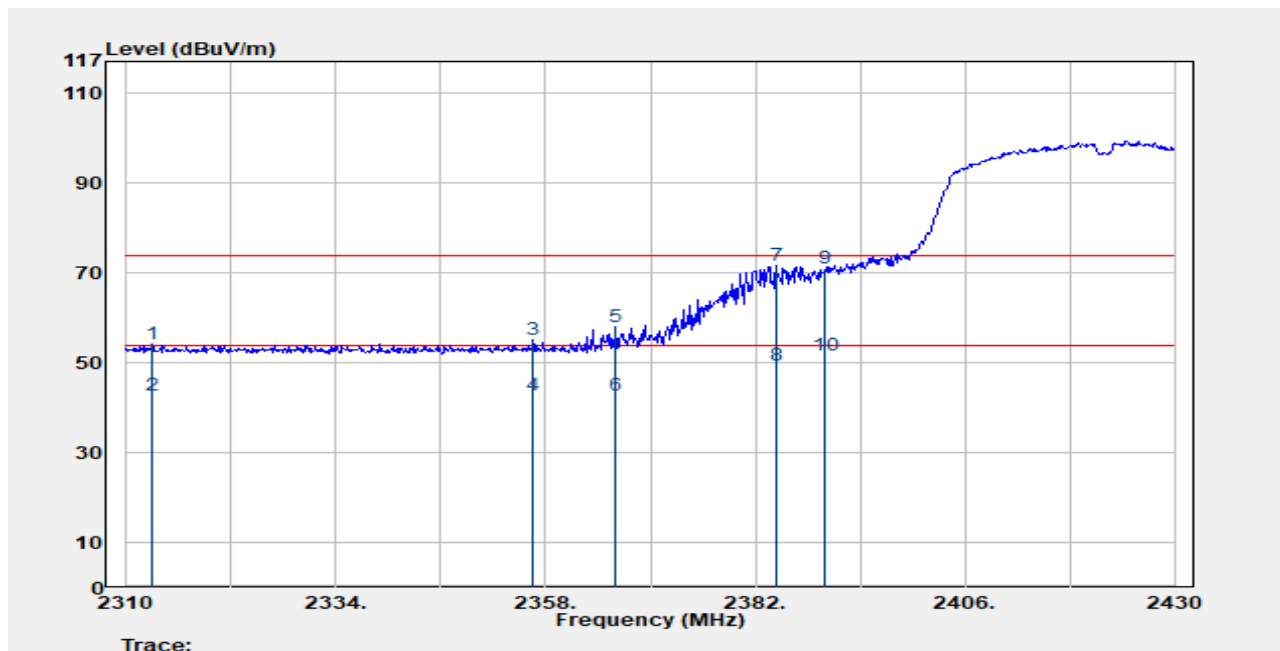
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	58.13	0.67	58.80	74.00	-15.20
2483.500	Average	43.52	0.67	44.19	54.00	-9.81
2483.800	Peak	59.97	0.67	60.64	74.00	-13.36
2483.800	Average	43.24	0.67	43.91	54.00	-10.09
2494.000	Peak	53.05	0.63	53.68	74.00	-20.32
2494.000	Average	41.47	0.63	42.10	54.00	-11.90
2525.200	Peak	52.99	0.71	53.70	74.00	-20.30
2525.200	Average	41.24	0.71	41.95	54.00	-12.05

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Report Number	:ER-2021-A0022	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2021-10-08
Test Frequency	:2422 MHz	Temp./Humi.	:26.3/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2313.000	Peak	53.09	1.15	54.24	74.00	-19.76
2313.000	Average	41.57	1.15	42.72	54.00	-11.28
2356.560	Peak	54.23	0.99	55.22	74.00	-18.78
2356.560	Average	41.71	0.99	42.70	54.00	-11.30
2366.040	Peak	57.21	0.97	58.18	74.00	-15.82
2366.040	Average	41.77	0.97	42.74	54.00	-11.26
2384.400	Peak	70.70	0.93	71.63	74.00	-2.37
2384.400	Average	48.53	0.93	49.46	54.00	-4.54
2390.000	Peak	70.19	0.92	71.11	74.00	-2.89
2390.000	Average	50.91	0.92	51.83	54.00	-2.17

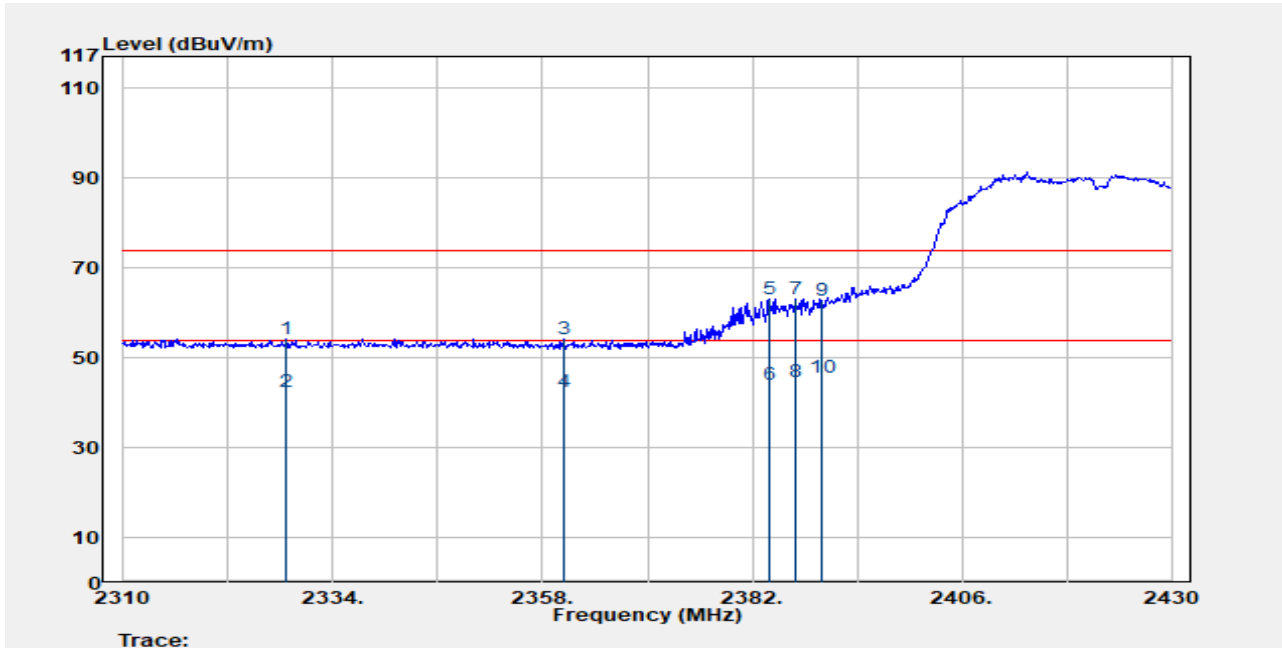
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2328.600	Peak	53.03	1.09	54.12	74.00	-19.88
2328.600	Average	41.48	1.09	42.57	54.00	-11.43
2360.400	Peak	53.27	0.98	54.25	74.00	-19.75
2360.400	Average	41.55	0.98	42.53	54.00	-11.47
2384.040	Peak	62.23	0.93	63.16	74.00	-10.84
2384.040	Average	43.12	0.93	44.05	54.00	-9.95
2386.920	Peak	62.32	0.92	63.24	74.00	-10.76
2386.920	Average	43.91	0.92	44.83	54.00	-9.17
2390.000	Peak	61.84	0.92	62.76	74.00	-11.24
2390.000	Average	44.65	0.92	45.57	54.00	-8.43

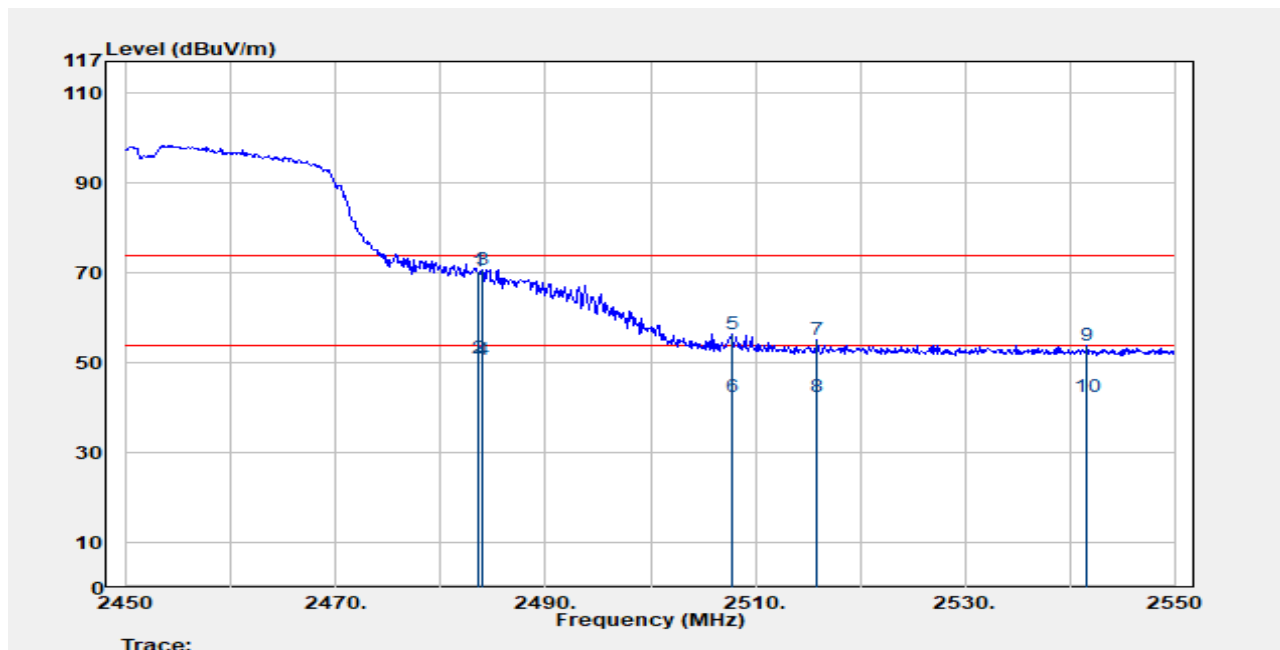
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.500	Peak	69.67	0.67	70.34	74.00	-3.66
2483.500	Average	50.43	0.67	51.10	54.00	-2.90
2484.000	Peak	70.16	0.67	70.83	74.00	-3.17
2484.000	Average	50.14	0.67	50.81	54.00	-3.19
2507.700	Peak	55.95	0.64	56.59	74.00	-17.41
2507.700	Average	41.86	0.64	42.50	54.00	-11.50
2515.900	Peak	54.51	0.67	55.18	74.00	-18.82
2515.900	Average	41.67	0.67	42.34	54.00	-11.66
2541.700	Peak	53.28	0.78	54.05	74.00	-19.95
2541.700	Average	41.56	0.78	42.34	54.00	-11.66

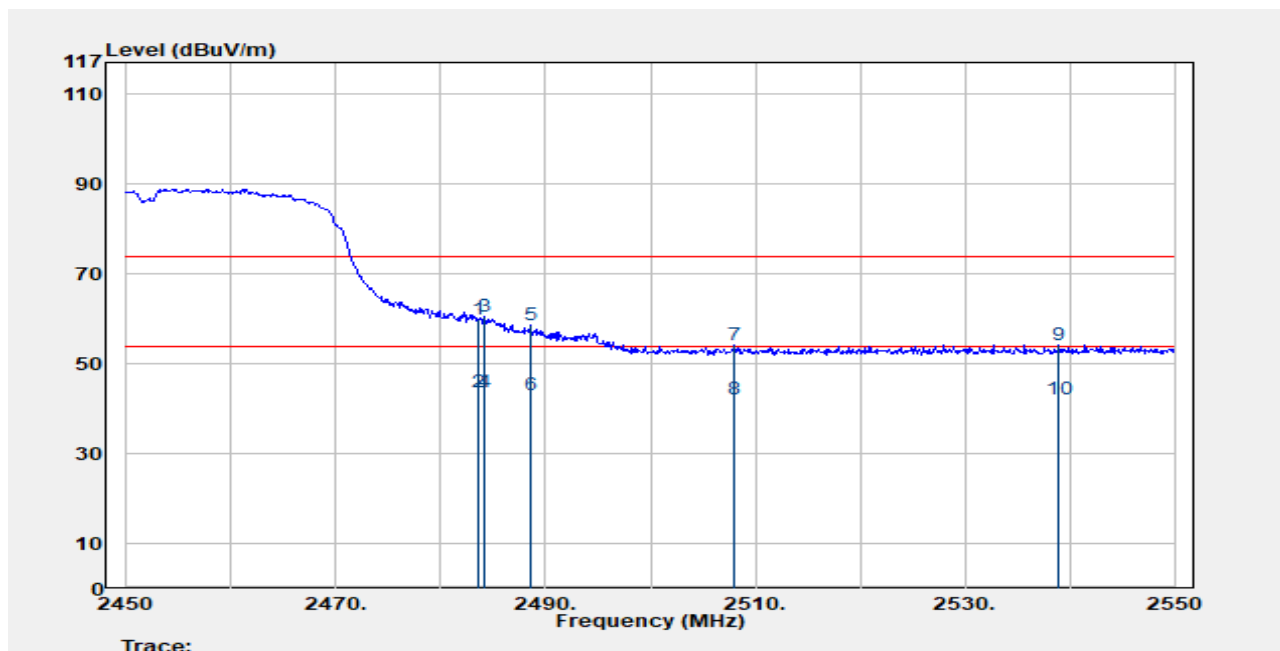
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	59.27	0.67	59.94	74.00	-14.06
2483.500	Average	43.06	0.67	43.73	54.00	-10.27
2484.100	Peak	60.05	0.67	60.72	74.00	-13.28
2484.100	Average	43.05	0.67	43.72	54.00	-10.28
2488.500	Peak	57.93	0.65	58.58	74.00	-15.42
2488.500	Average	42.53	0.65	43.18	54.00	-10.82
2508.000	Peak	53.72	0.64	54.36	74.00	-19.64
2508.000	Average	41.58	0.64	42.22	54.00	-11.78
2539.000	Peak	53.52	0.77	54.29	74.00	-19.71
2539.000	Average	41.51	0.77	42.28	54.00	-11.72

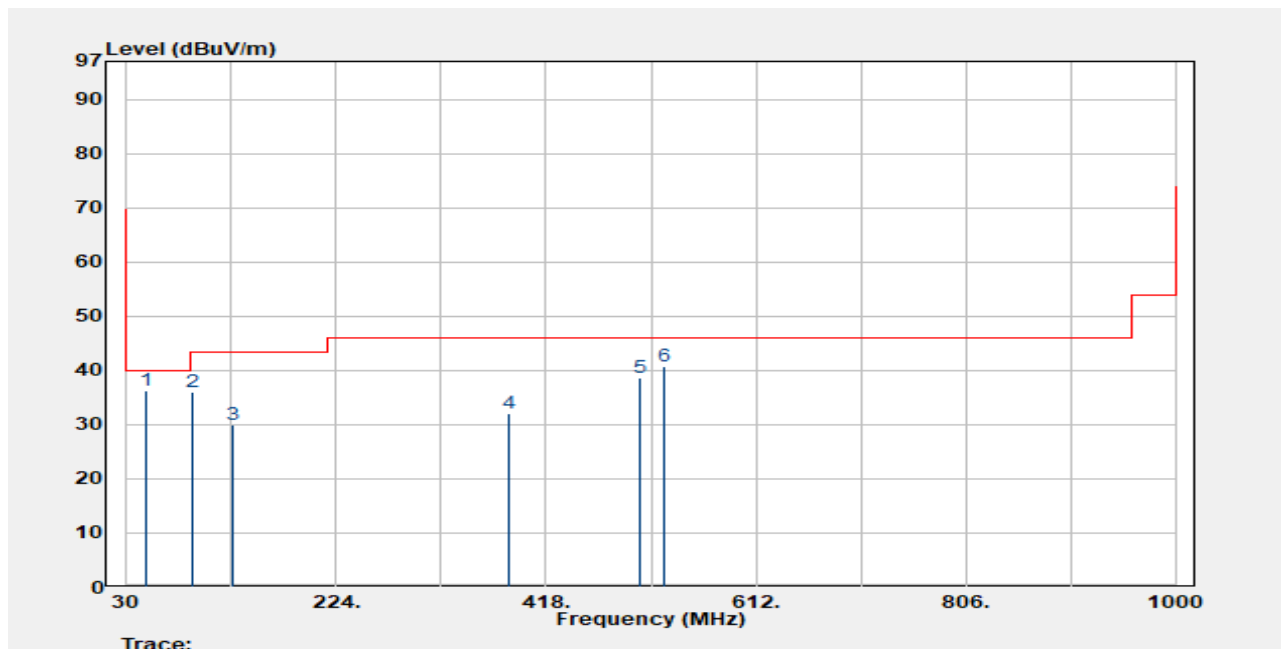
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7.7.2 Below 1GHz Worst-Case Emission:

Report Number	:ER-2021-A0022	Test Site	:SAC 3
Operation Mode	:802.11g	Test Date	:2021-10-08
Test Frequency	:2437 MHz	Temp./Humi.	:26.3/61
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Ricky Chen



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
48.010	QP	44.32	-8.16	36.16	40.00	-3.84
90.140	Peak	50.23	-14.08	36.14	43.50	-7.36
127.970	Peak	38.88	-8.86	30.02	43.50	-13.48
384.050	Peak	36.57	-4.53	32.04	46.00	-13.96
504.330	Peak	41.48	-2.94	38.54	46.00	-7.46
528.000	QP	43.43	-2.69	40.74	46.00	-5.26

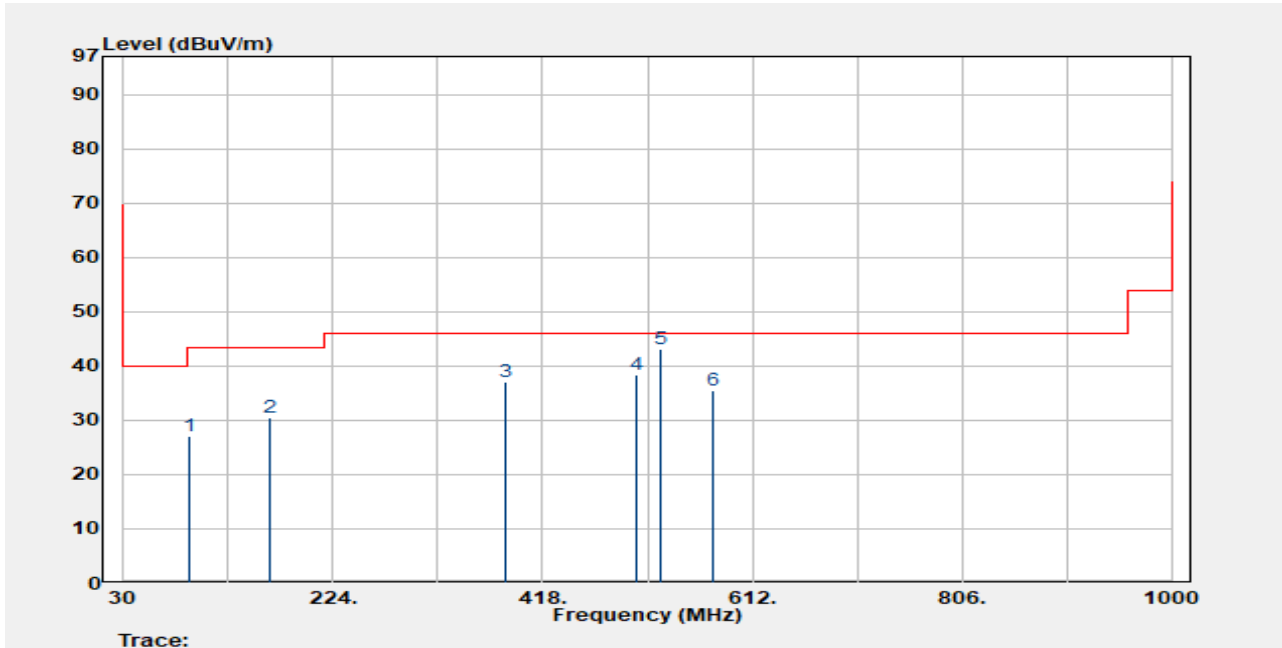
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
90.140	Peak	41.07	-14.08	26.98	43.50	-16.52
164.830	Peak	37.76	-7.36	30.41	43.50	-13.09
384.050	Peak	41.67	-4.53	37.14	46.00	-8.86
504.330	Peak	41.38	-2.94	38.45	46.00	-7.55
528.000	QP	45.89	-2.69	43.20	46.00	-2.80
576.110	Peak	35.79	-0.42	35.37	46.00	-10.63

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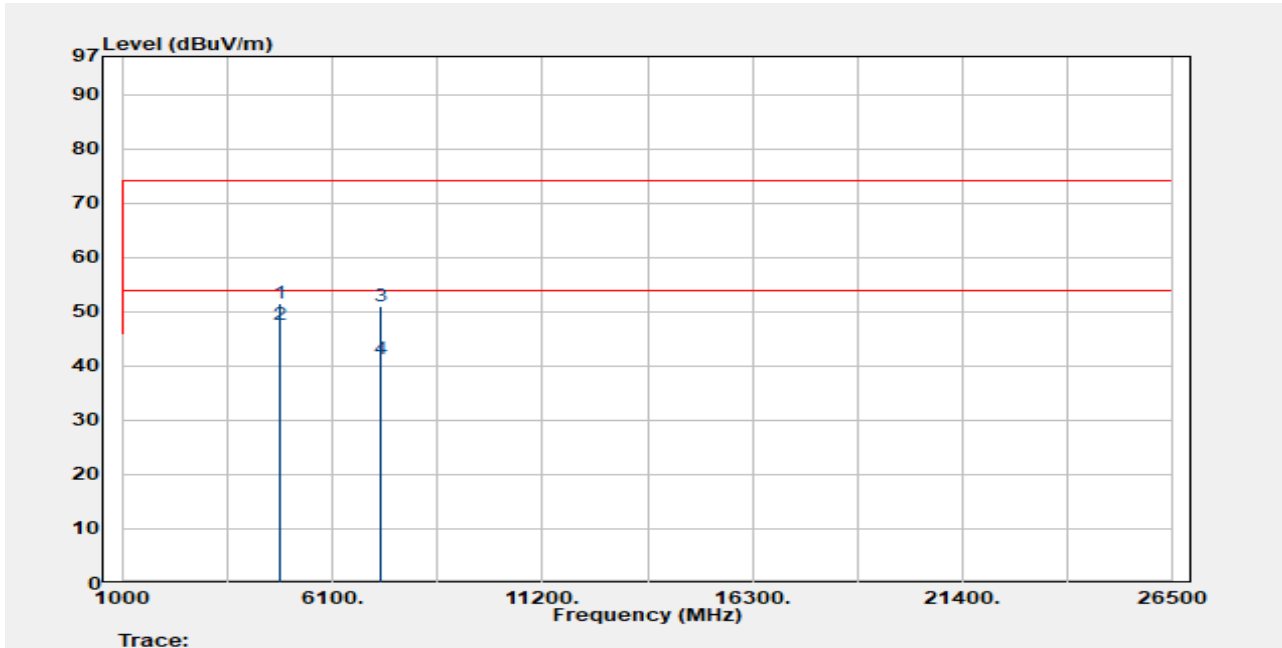
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7.7.3 Above 1GHz Emission:

Report Number :ER-2021-A0022
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4824.000	Peak	44.32	7.13	51.45	74.00	-22.55
4824.000	Average	40.57	7.13	47.70	54.00	-6.30
7236.000	Peak	36.61	14.33	50.94	74.00	-23.06
7236.000	Average	27.03	14.33	41.36	54.00	-12.64

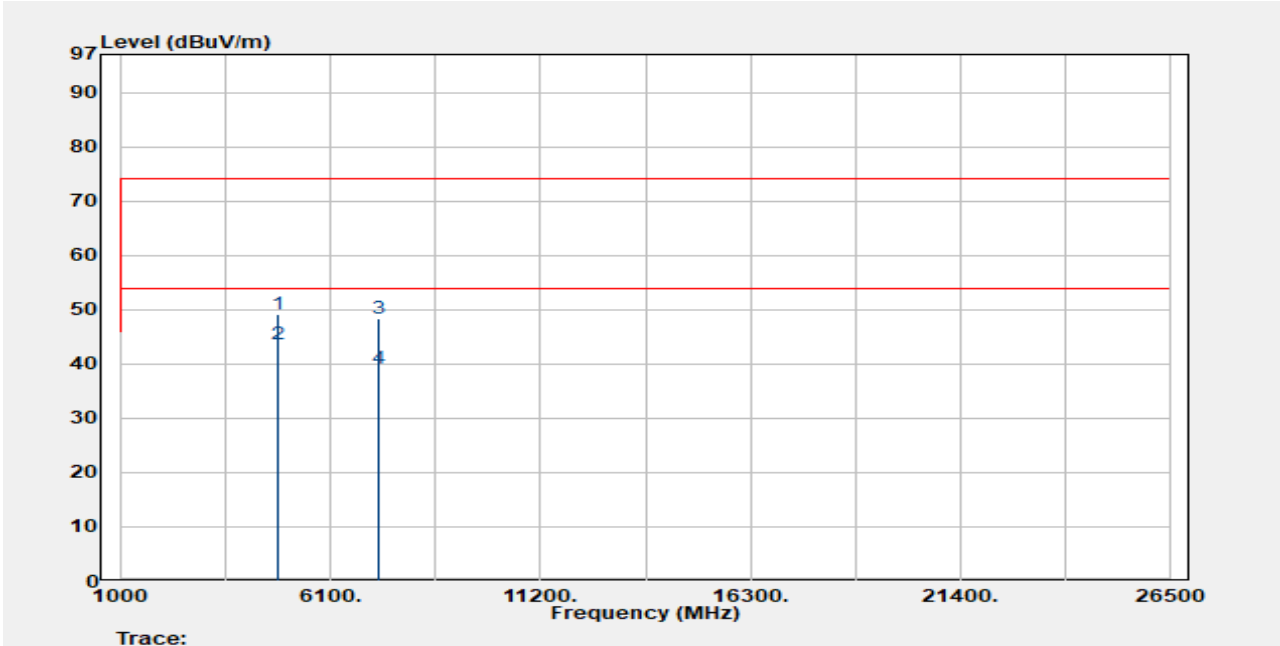
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Report Number :ER-2021-A0022
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4824.000	Peak	41.93	7.13	49.06	74.00	-24.94
4824.000	Average	36.52	7.13	43.65	54.00	-10.35
7236.000	Peak	34.15	14.33	48.48	74.00	-25.52
7236.000	Average	24.89	14.33	39.22	54.00	-14.78

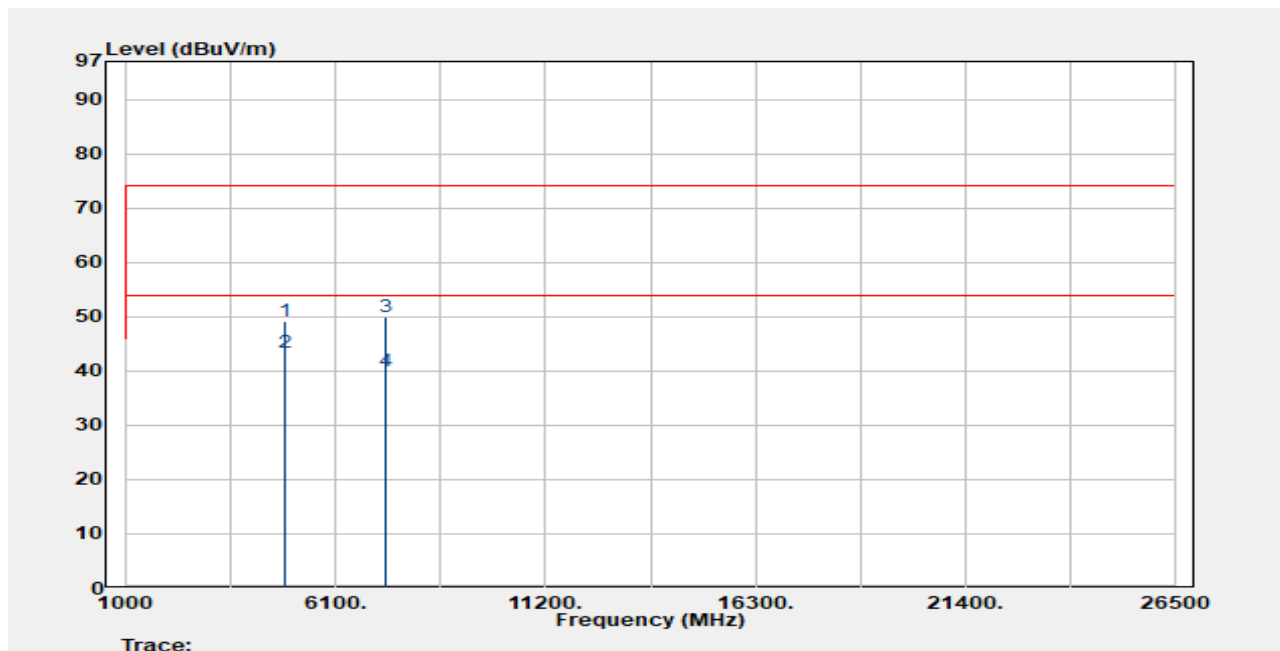
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Report Number :ER-2021-A0022
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4874.000	Peak	41.59	7.51	49.10	74.00	-24.90
4874.000	Average	35.83	7.51	43.34	54.00	-10.66
7311.000	Peak	34.61	15.41	50.01	74.00	-23.99
7311.000	Average	24.51	15.41	39.92	54.00	-14.08

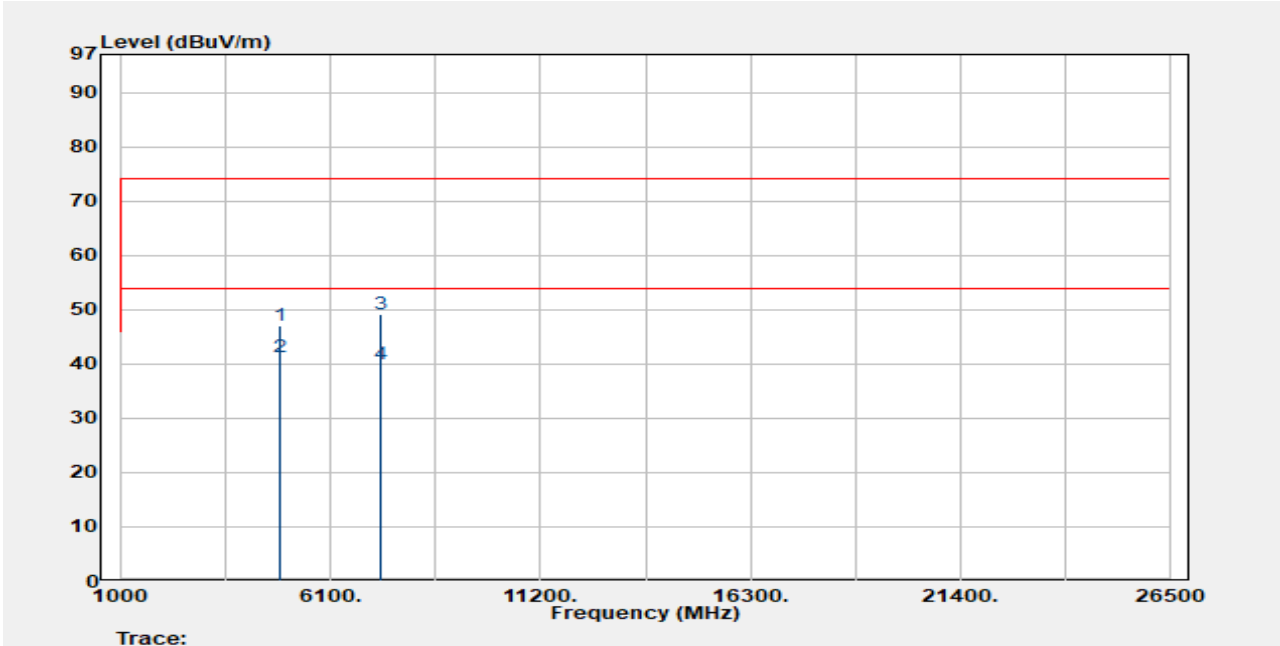
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Report Number :ER-2021-A0022
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4874.000	Peak	39.58	7.51	47.09	74.00	-26.91
4874.000	Average	33.75	7.51	41.26	54.00	-12.74
7311.000	Peak	33.82	15.41	49.22	74.00	-24.78
7311.000	Average	24.61	15.41	40.02	54.00	-13.98

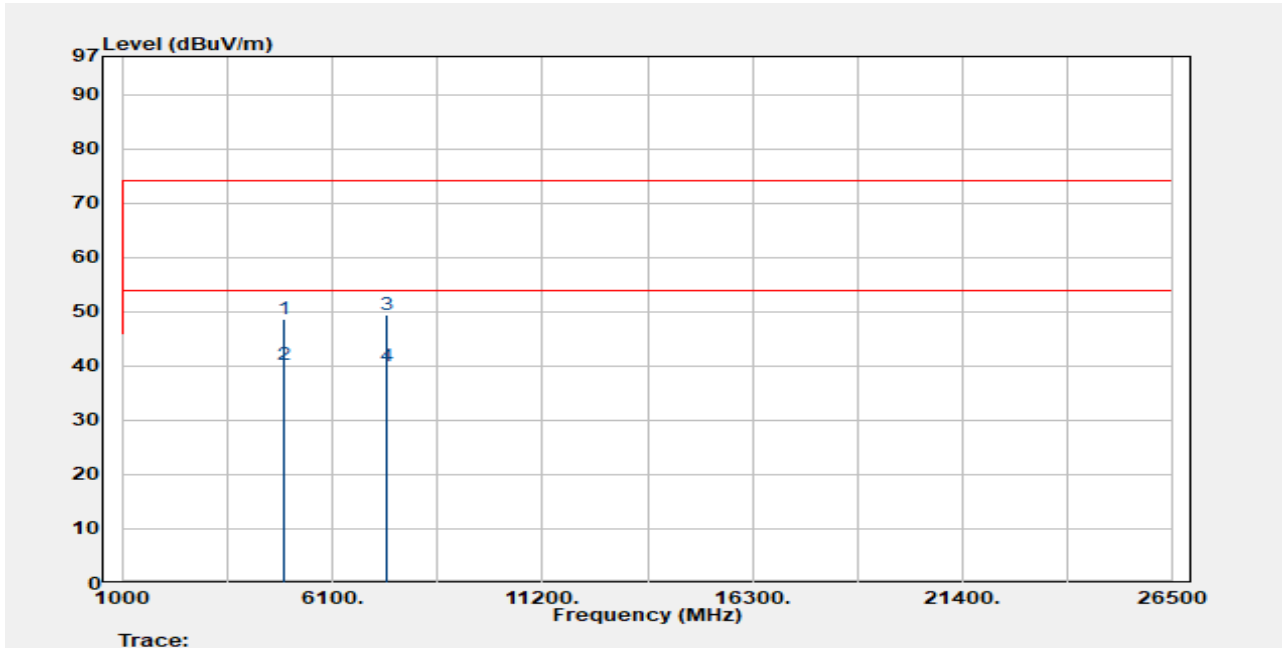
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Report Number :ER-2021-A0022
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4924.000	Peak	40.87	7.84	48.71	74.00	-25.29
4924.000	Average	32.51	7.84	40.35	54.00	-13.65
7386.000	Peak	34.66	14.75	49.41	74.00	-24.59
7386.000	Average	25.20	14.75	39.95	54.00	-14.05

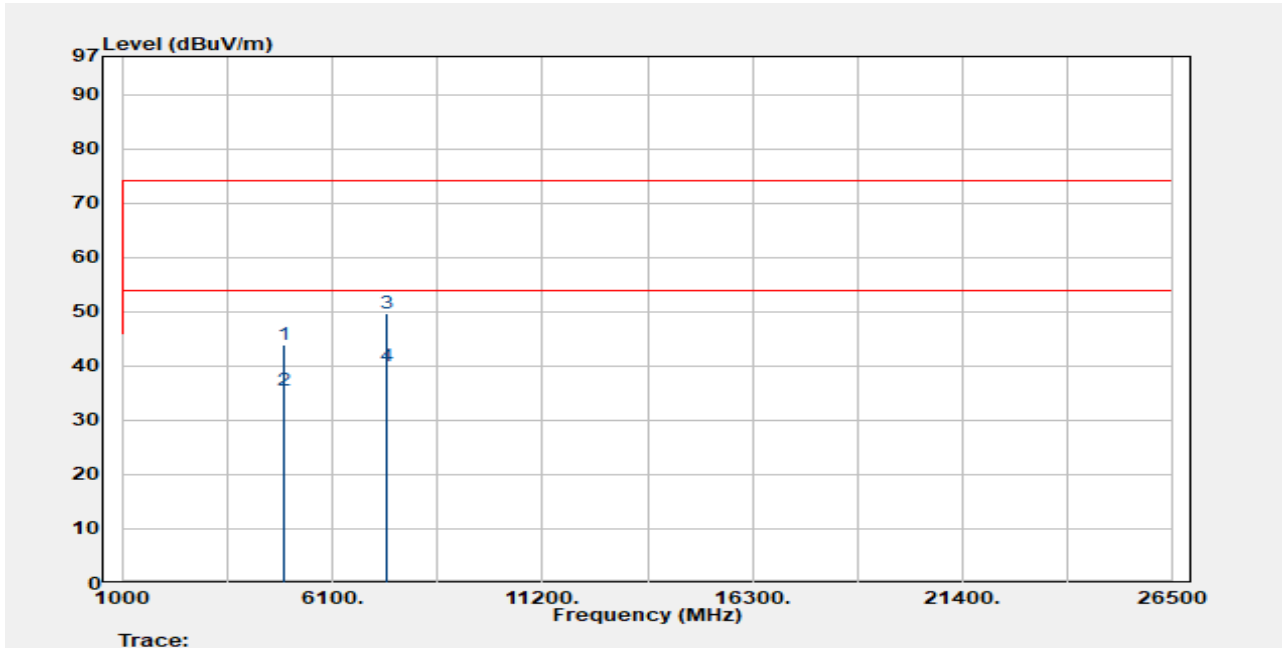
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Report Number :ER-2021-A0022
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4924.000	Peak	36.05	7.84	43.89	74.00	-30.11
4924.000	Average	27.70	7.84	35.54	54.00	-18.46
7386.000	Peak	35.04	14.75	49.79	74.00	-24.21
7386.000	Average	25.32	14.75	40.07	54.00	-13.93

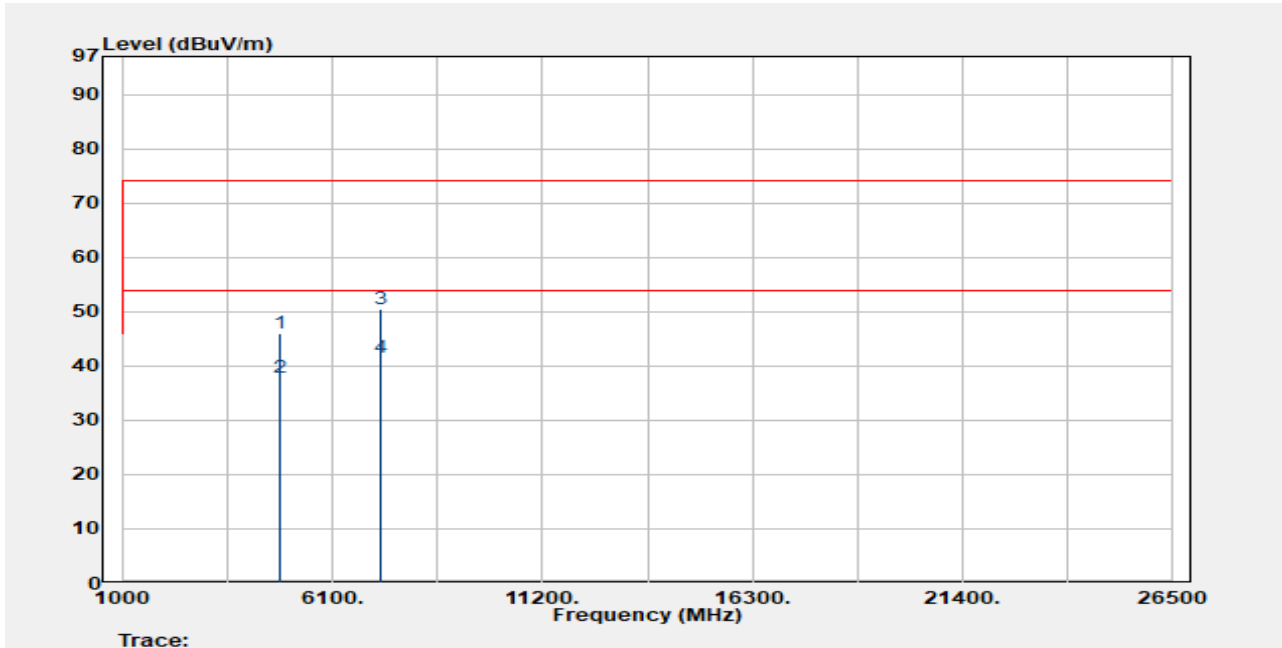
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4824.000	Peak	38.93	7.13	46.07	74.00	-27.93
4824.000	Average	30.76	7.13	37.89	54.00	-16.11
7236.000	Peak	36.25	14.33	50.58	74.00	-23.42
7236.000	Average	27.12	14.33	41.45	54.00	-12.55

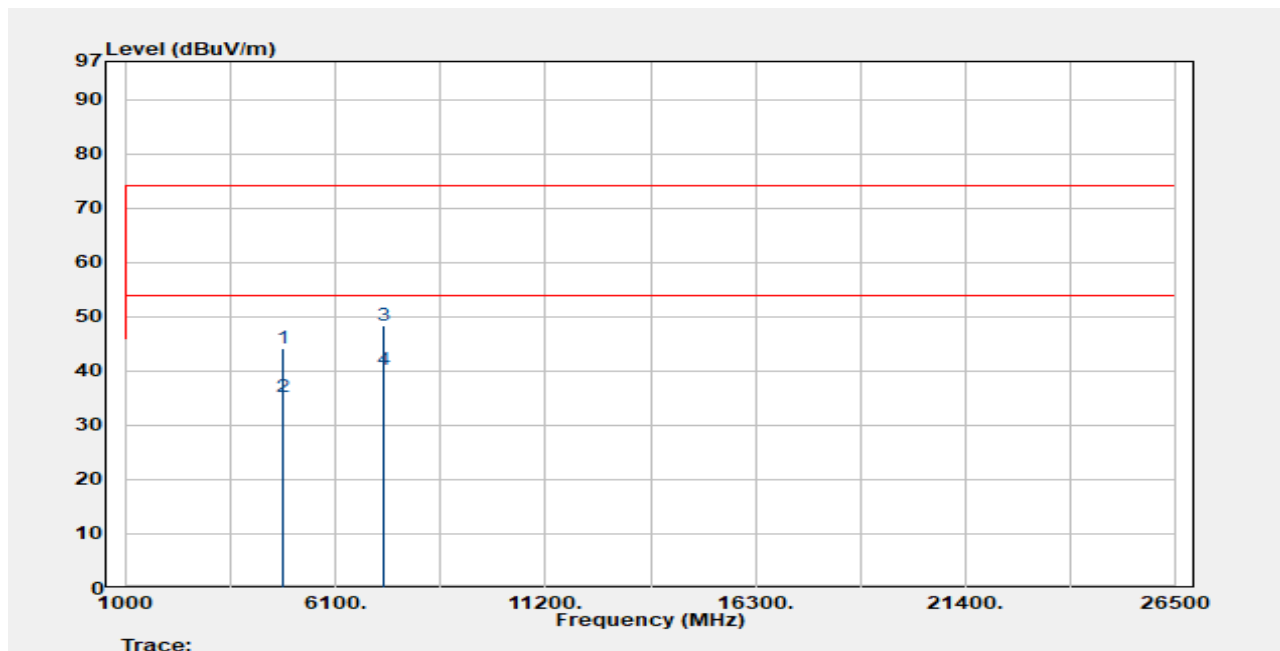
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4824.000	Peak	37.12	7.13	44.26	74.00	-29.74
4824.000	Average	28.15	7.13	35.28	54.00	-18.72
7236.000	Peak	33.95	14.33	48.28	74.00	-25.72
7236.000	Average	25.93	14.33	40.26	54.00	-13.74

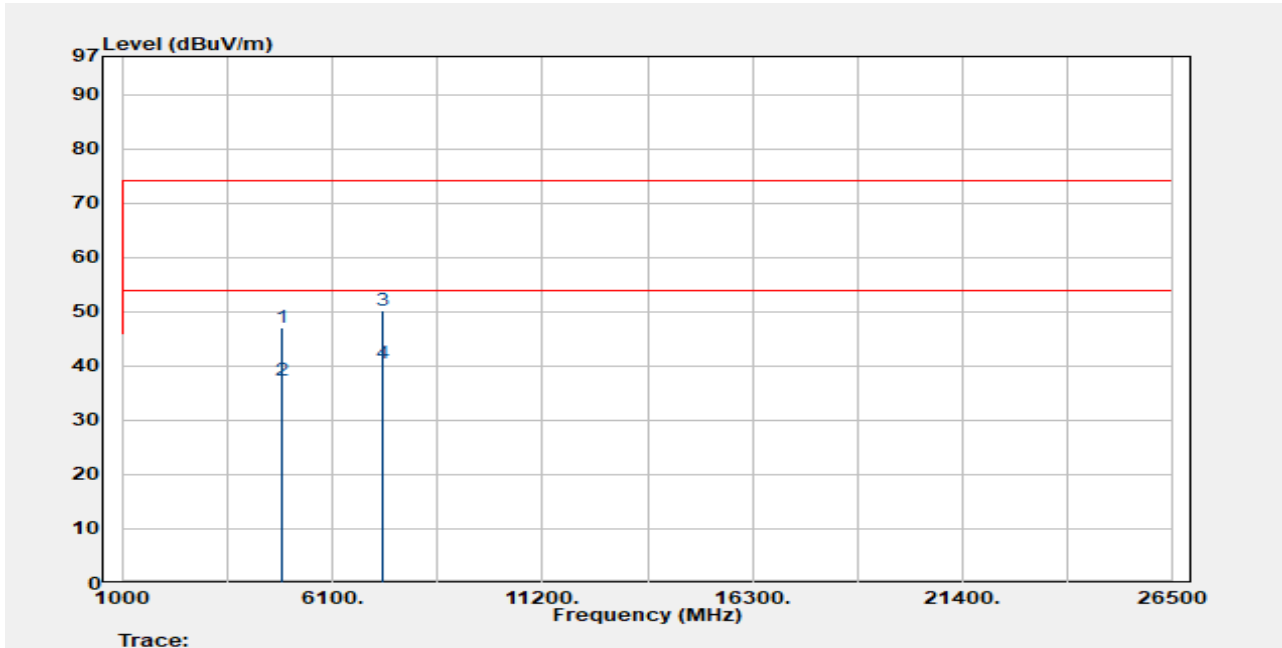
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4874.000	Peak	39.58	7.51	47.09	74.00	-26.91
4874.000	Average	29.76	7.51	37.27	54.00	-16.73
7311.000	Peak	34.74	15.41	50.15	74.00	-23.85
7311.000	Average	25.08	15.41	40.49	54.00	-13.51

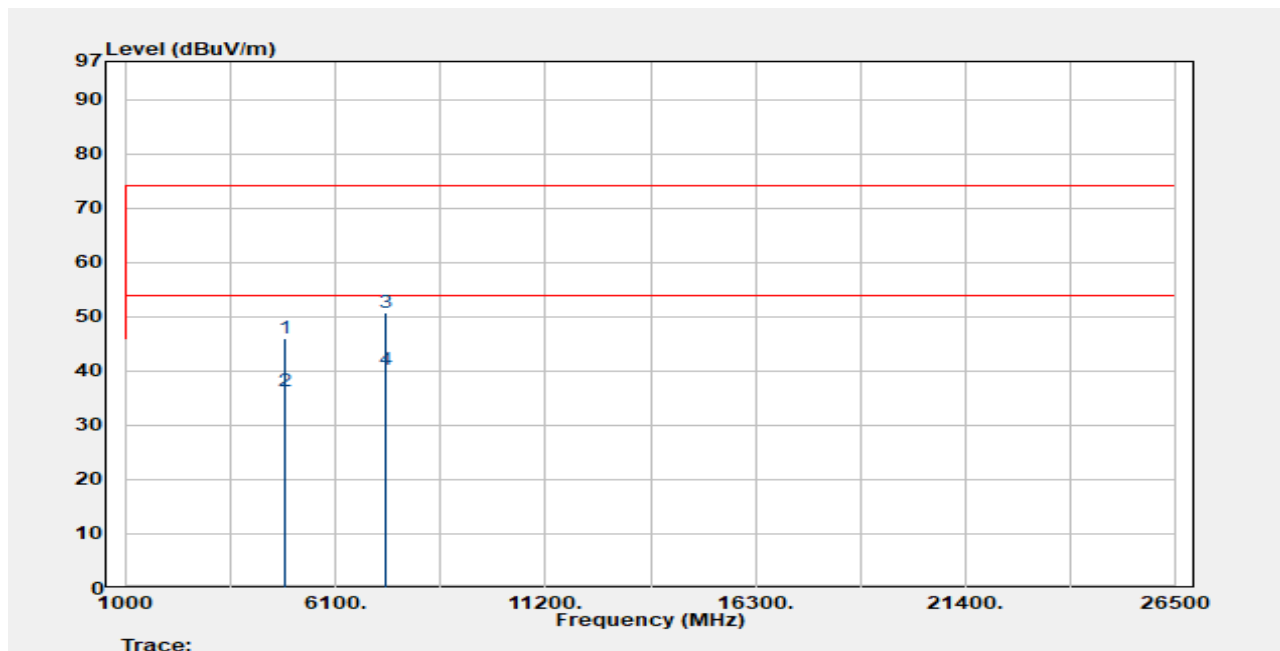
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4874.000	Peak	38.36	7.51	45.87	74.00	-28.13
4874.000	Average	28.75	7.51	36.26	54.00	-17.74
7311.000	Peak	35.38	15.41	50.79	74.00	-23.21
7311.000	Average	24.93	15.41	40.34	54.00	-13.66

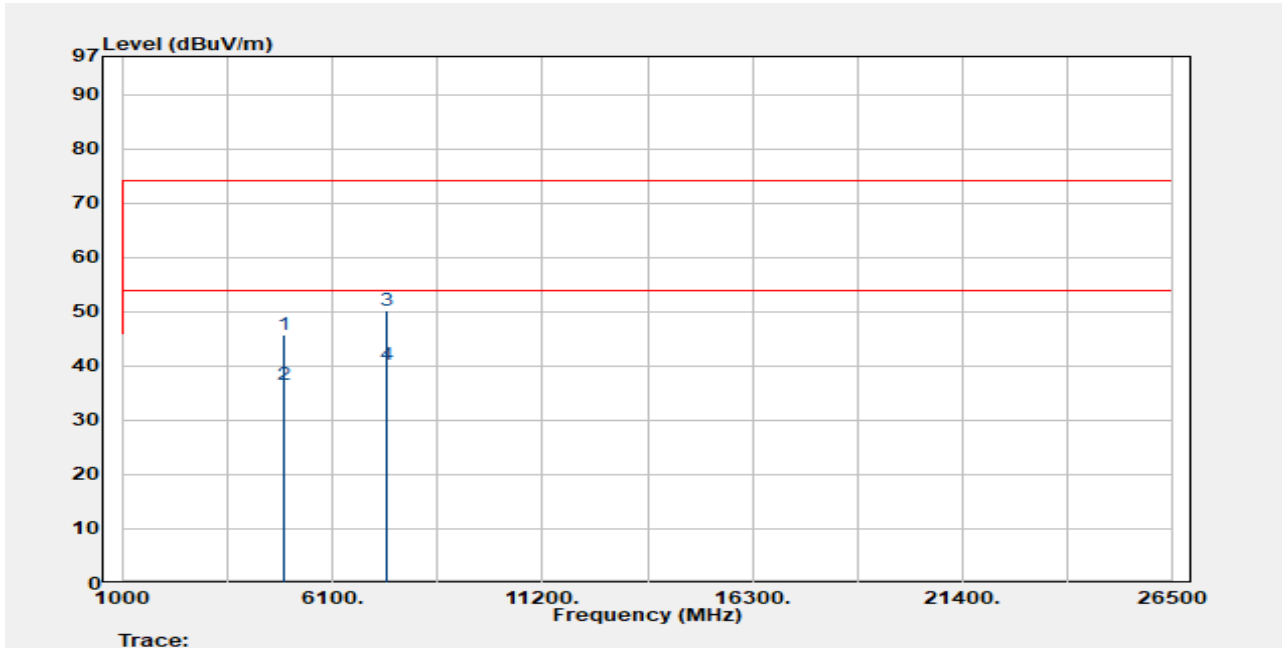
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4924.000	Peak	37.91	7.84	45.75	74.00	-28.25
4924.000	Average	28.77	7.84	36.61	54.00	-17.39
7386.000	Peak	35.57	14.75	50.33	74.00	-23.67
7386.000	Average	25.50	14.75	40.25	54.00	-13.75

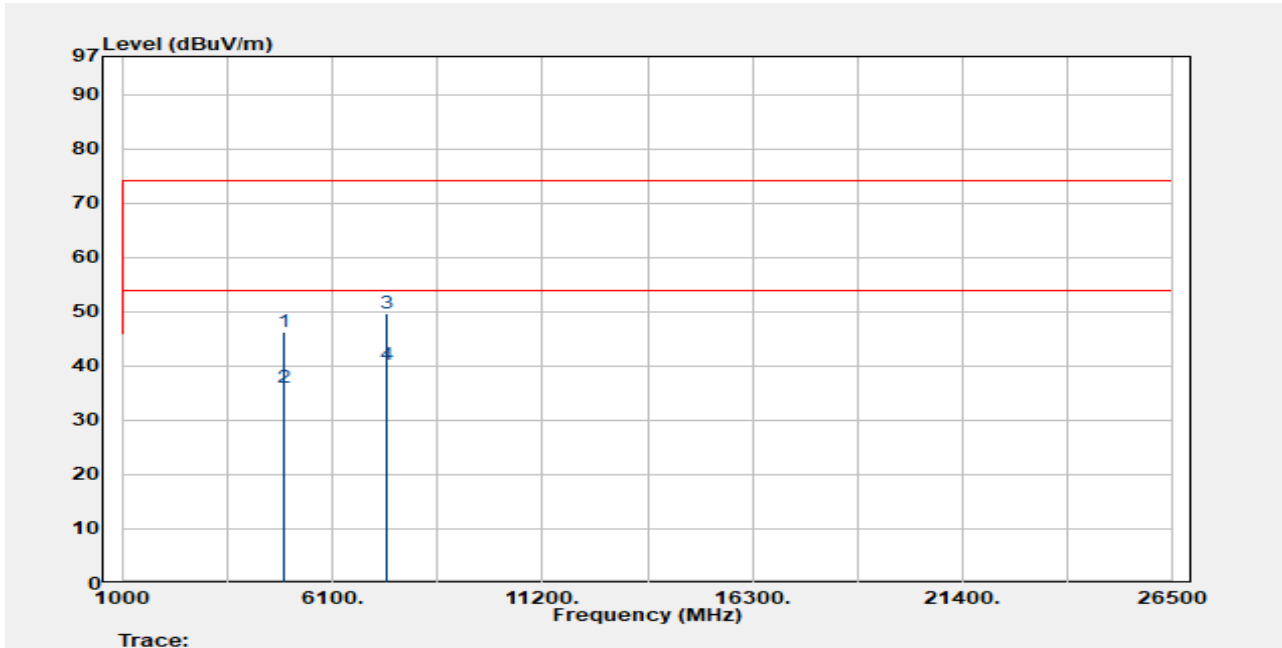
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Report Number :ER-2021-A0022
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4924.000	Peak	38.46	7.84	46.30	74.00	-27.70
4924.000	Average	28.06	7.84	35.90	54.00	-18.10
7386.000	Peak	35.04	14.75	49.79	74.00	-24.21
7386.000	Average	25.45	14.75	40.20	54.00	-13.80

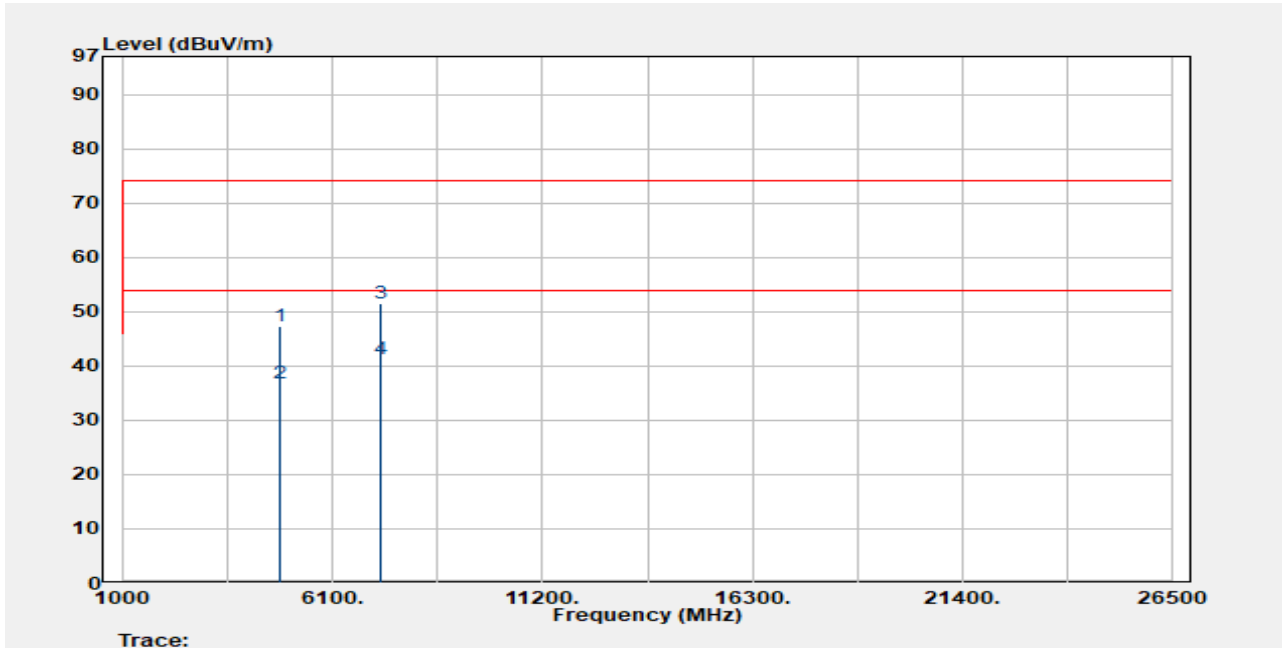
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4824.000	Peak	40.25	7.13	47.38	74.00	-26.62
4824.000	Average	29.56	7.13	36.69	54.00	-17.31
7236.000	Peak	37.19	14.33	51.52	74.00	-22.48
7236.000	Average	26.90	14.33	41.23	54.00	-12.77

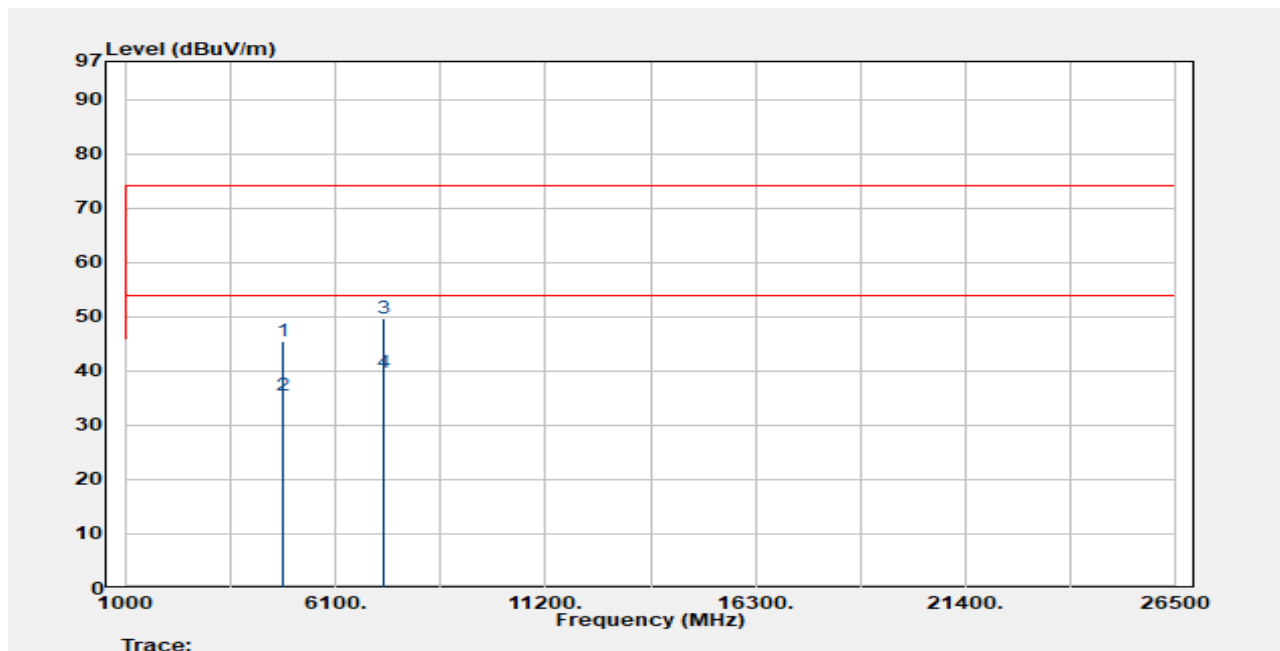
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Peak	38.27	7.13	45.40	74.00	-28.60
4824.000	Average	28.33	7.13	35.46	54.00	-18.54
7236.000	Peak	35.42	14.33	49.76	74.00	-24.24
7236.000	Average	25.38	14.33	39.71	54.00	-14.29

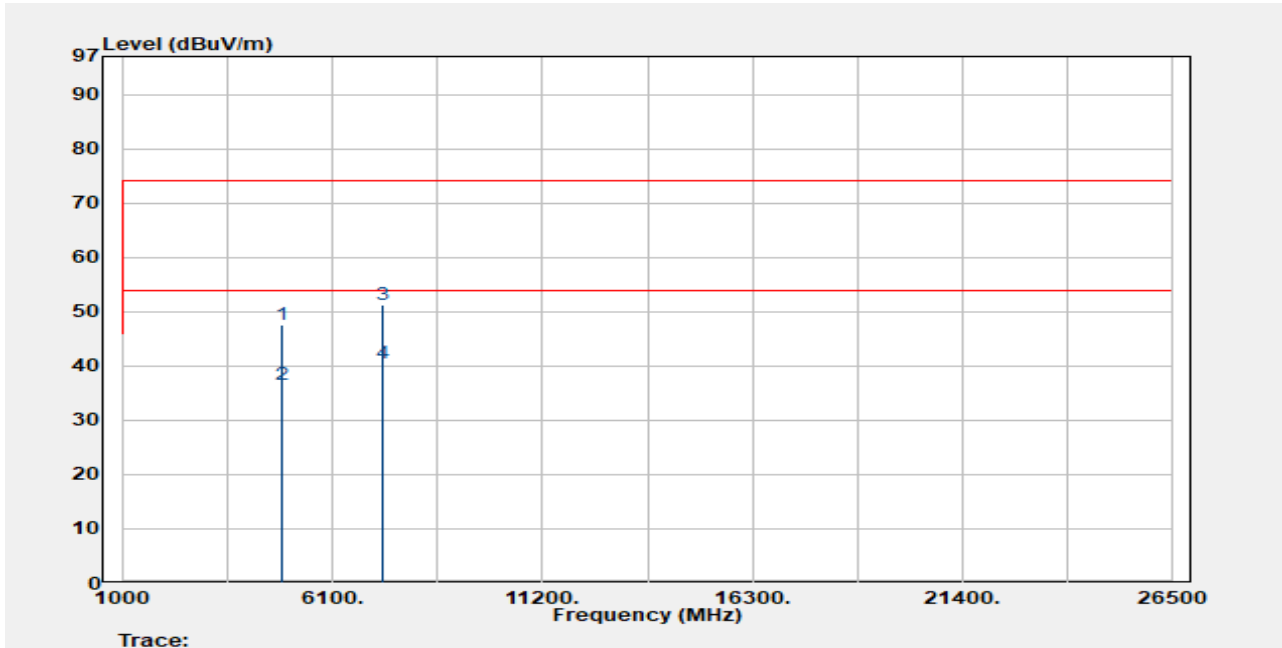
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4874.000	Peak	40.07	7.51	47.58	74.00	-26.42
4874.000	Average	28.91	7.51	36.42	54.00	-17.58
7311.000	Peak	35.80	15.41	51.21	74.00	-22.79
7311.000	Average	25.09	15.41	40.50	54.00	-13.50

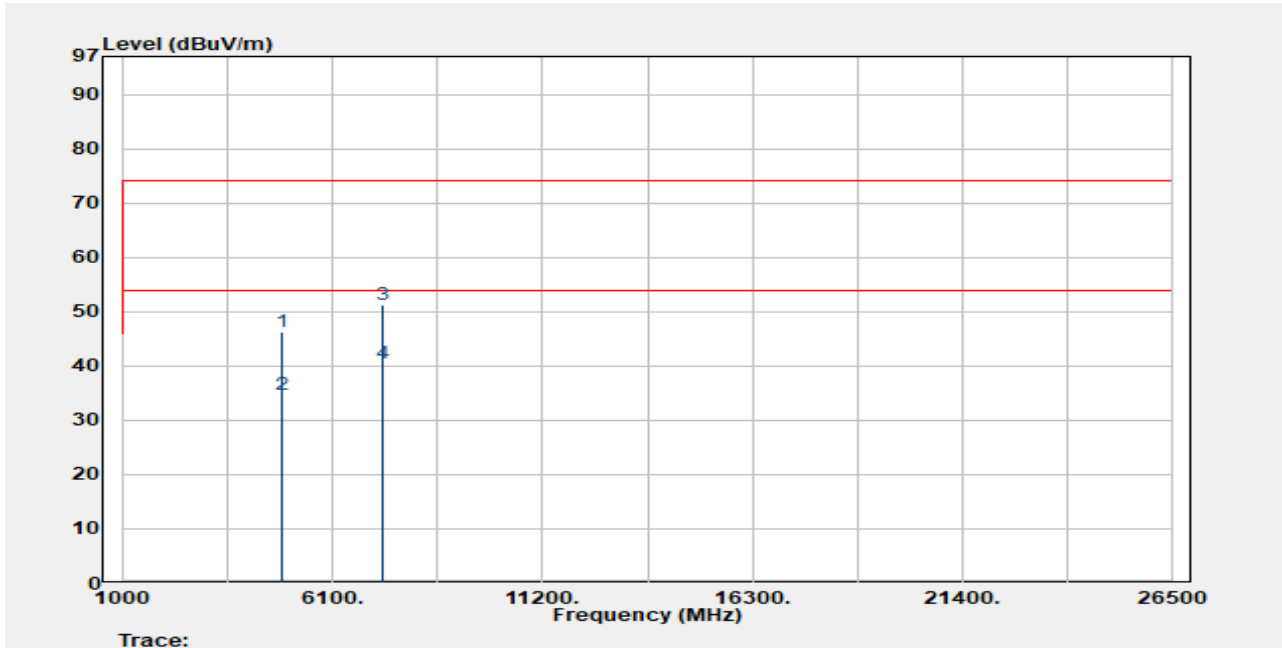
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4874.000	Peak	38.67	7.51	46.18	74.00	-27.82
4874.000	Average	27.29	7.51	34.80	54.00	-19.20
7311.000	Peak	35.91	15.41	51.32	74.00	-22.68
7311.000	Average	25.09	15.41	40.50	54.00	-13.50

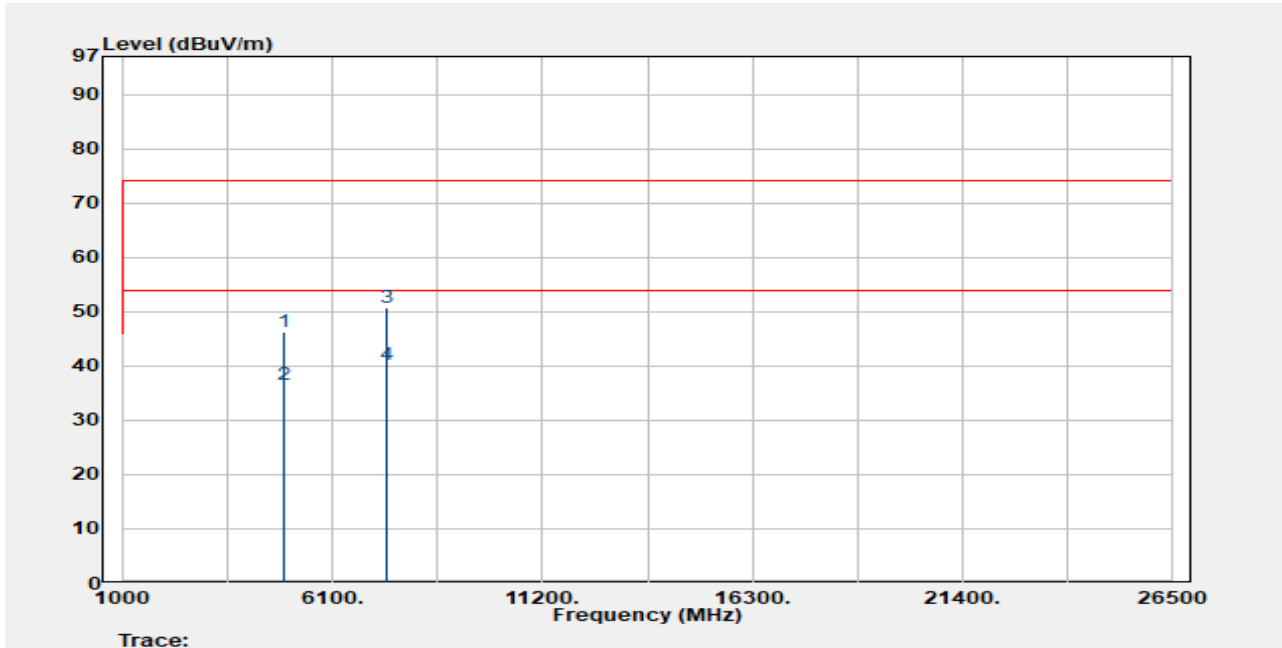
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4924.000	Peak	38.33	7.84	46.17	74.00	-27.83
4924.000	Average	28.59	7.84	36.43	54.00	-17.57
7386.000	Peak	35.86	14.75	50.61	74.00	-23.39
7386.000	Average	25.45	14.75	40.20	54.00	-13.80

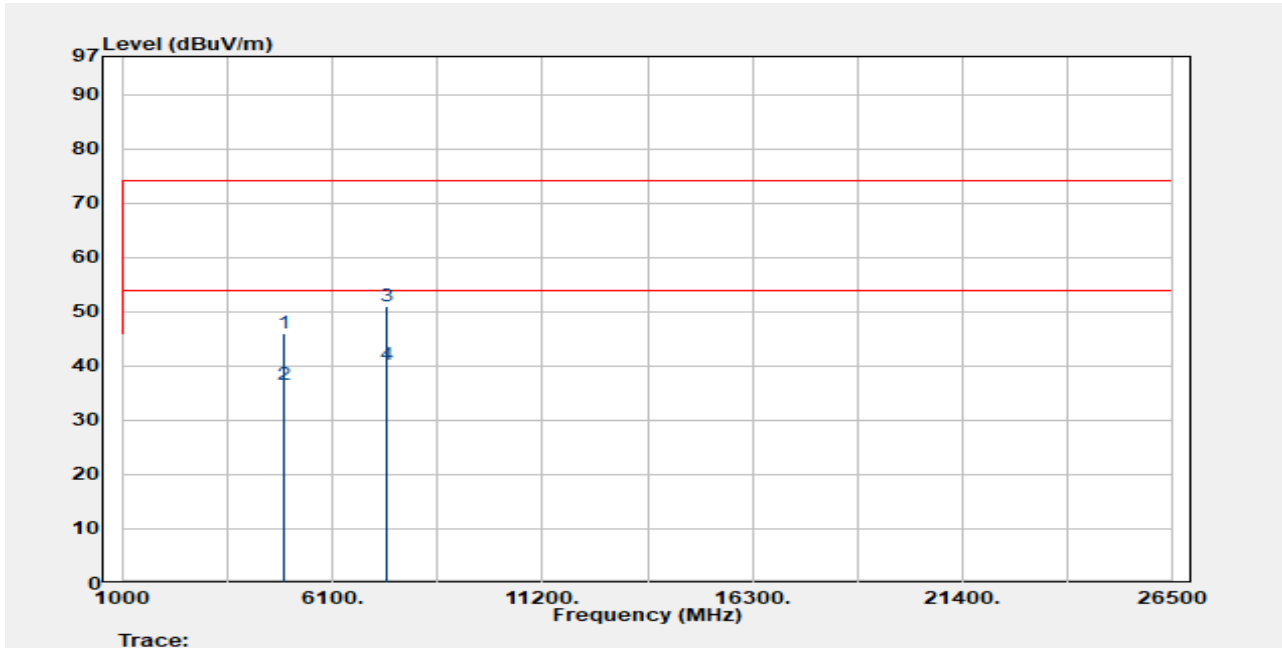
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Report Number :ER-2021-A0022
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4924.000	Peak	38.11	7.84	45.95	74.00	-28.05
4924.000	Average	28.60	7.84	36.44	54.00	-17.56
7386.000	Peak	36.36	14.75	51.11	74.00	-22.89
7386.000	Average	25.43	14.75	40.18	54.00	-13.82

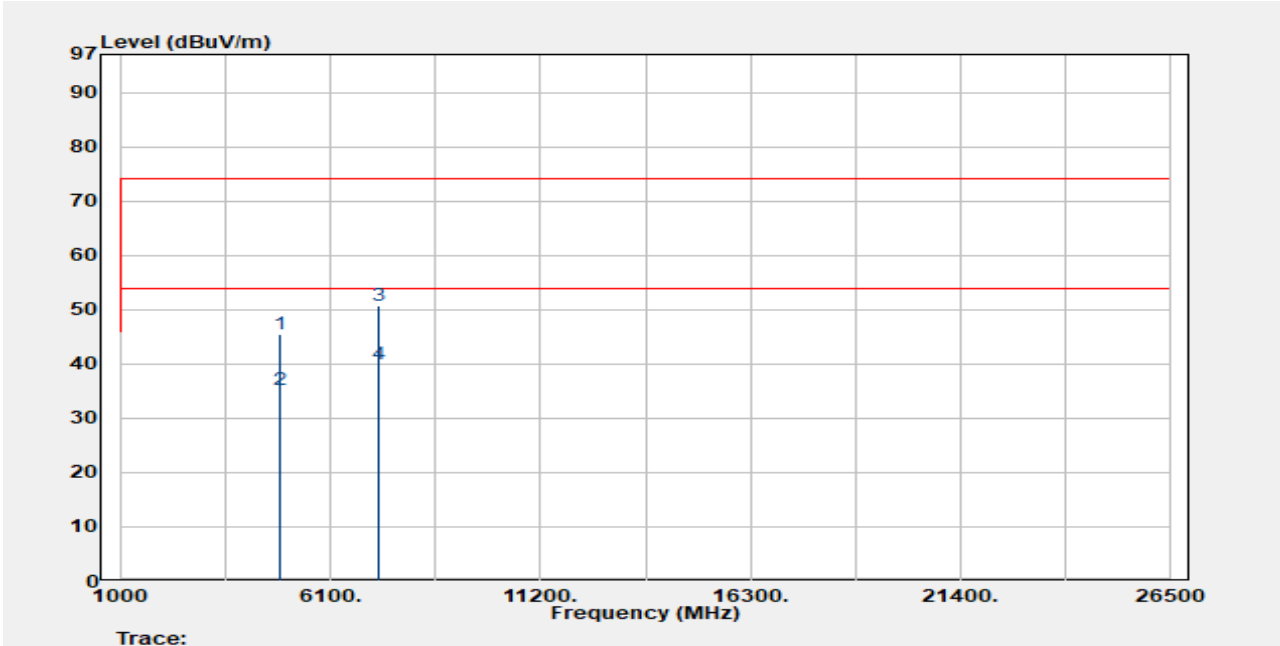
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4844.000	Peak	38.34	7.12	45.46	74.00	-28.54
4844.000	Average	28.10	7.12	35.22	54.00	-18.78
7266.000	Peak	36.20	14.63	50.83	74.00	-23.17
7266.000	Average	25.27	14.63	39.90	54.00	-14.10

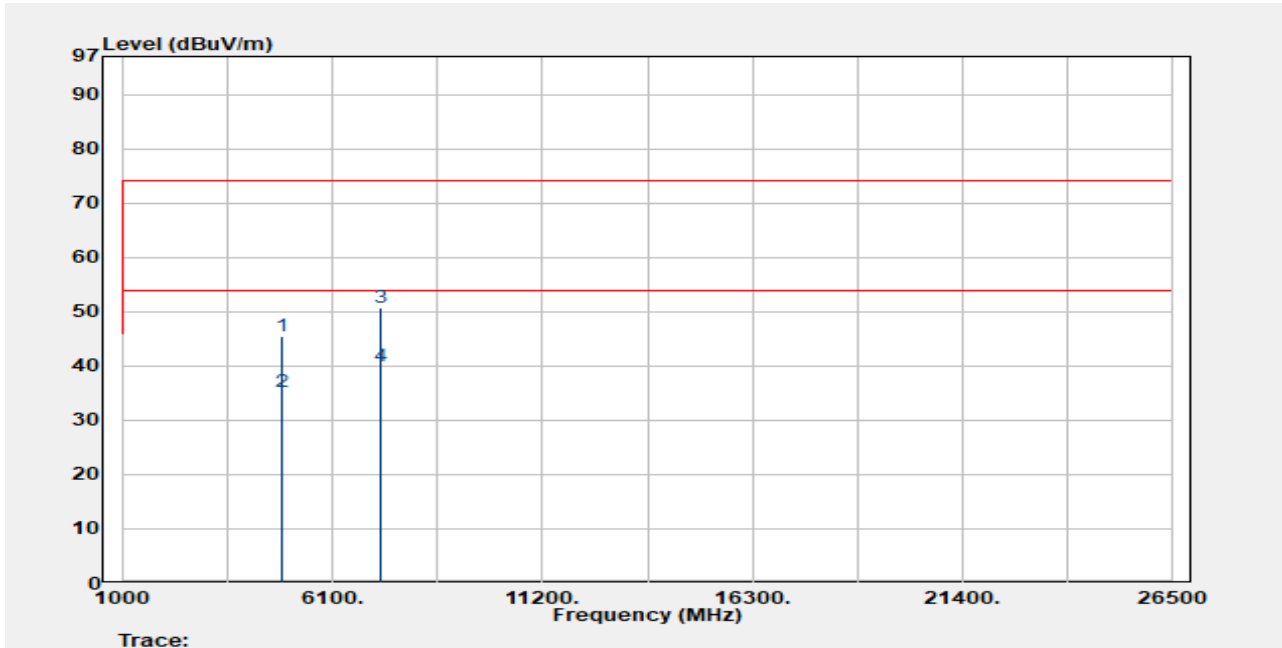
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4844.000	Peak	38.36	7.12	45.48	74.00	-28.52
4844.000	Average	27.98	7.12	35.10	54.00	-18.90
7266.000	Peak	36.03	14.63	50.66	74.00	-23.34
7266.000	Average	25.20	14.63	39.83	54.00	-14.17

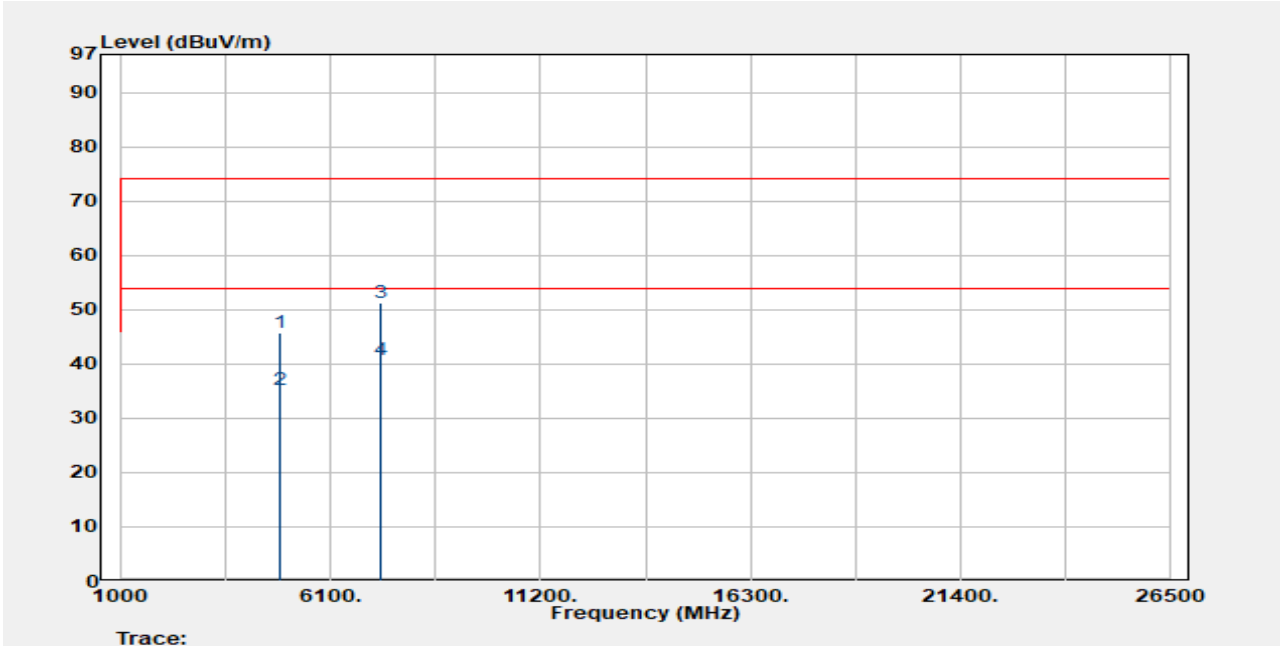
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4874.000	Peak	38.27	7.51	45.78	74.00	-28.22
4874.000	Average	27.74	7.51	35.25	54.00	-18.75
7311.000	Peak	35.96	15.41	51.37	74.00	-22.63
7311.000	Average	25.21	15.41	40.62	54.00	-13.38

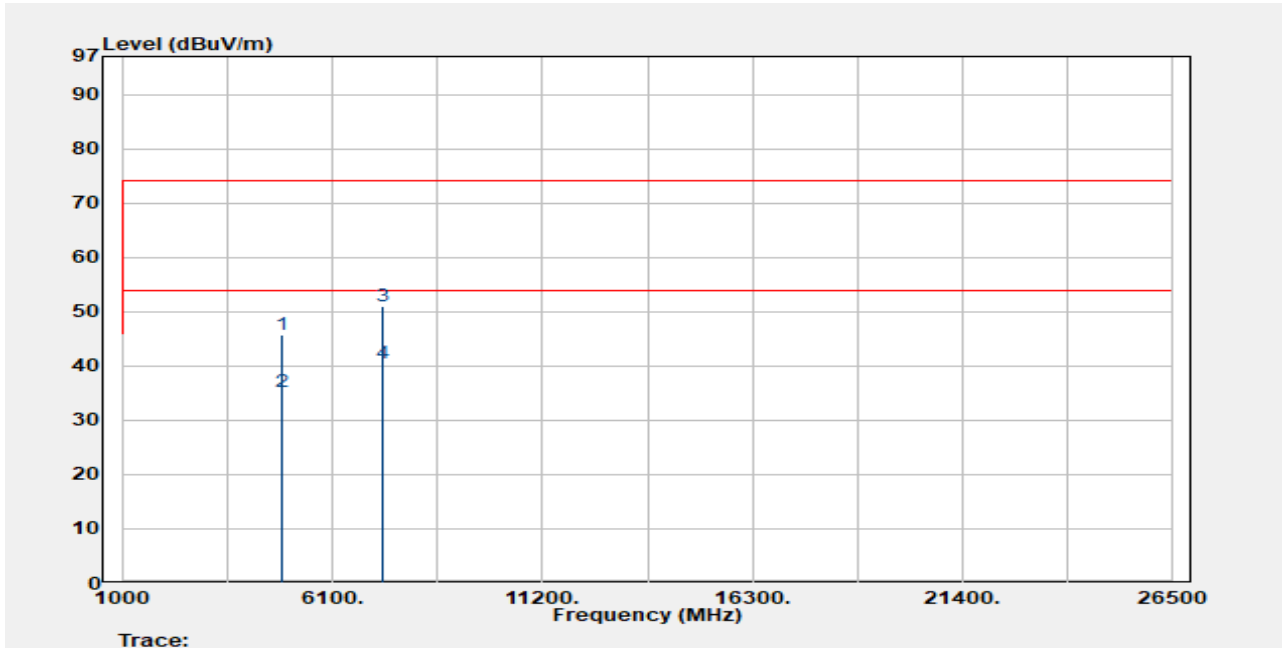
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4874.000	Peak	38.24	7.51	45.75	74.00	-28.25
4874.000	Average	27.78	7.51	35.29	54.00	-18.71
7311.000	Peak	35.53	15.41	50.94	74.00	-23.06
7311.000	Average	25.15	15.41	40.56	54.00	-13.44

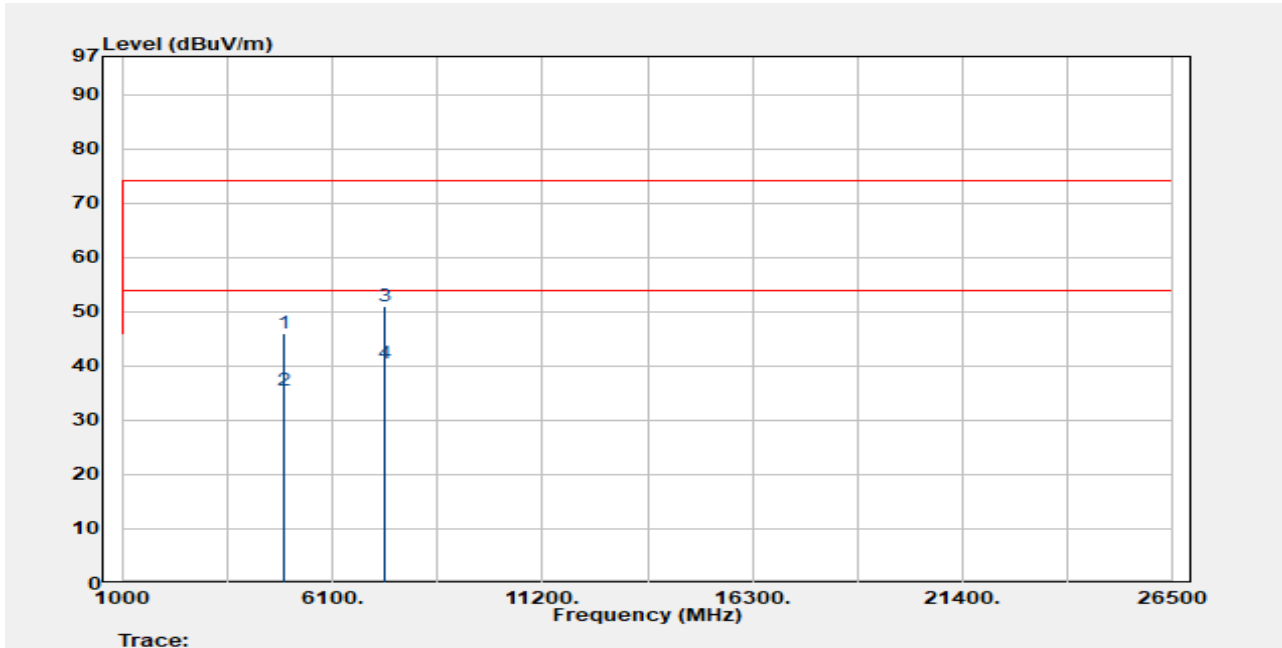
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
4904.000	Peak	38.21	7.92	46.13	74.00	-27.87
4904.000	Average	27.65	7.92	35.57	54.00	-18.43
7356.000	Peak	36.13	14.93	51.06	74.00	-22.94
7356.000	Average	25.47	14.93	40.40	54.00	-13.60

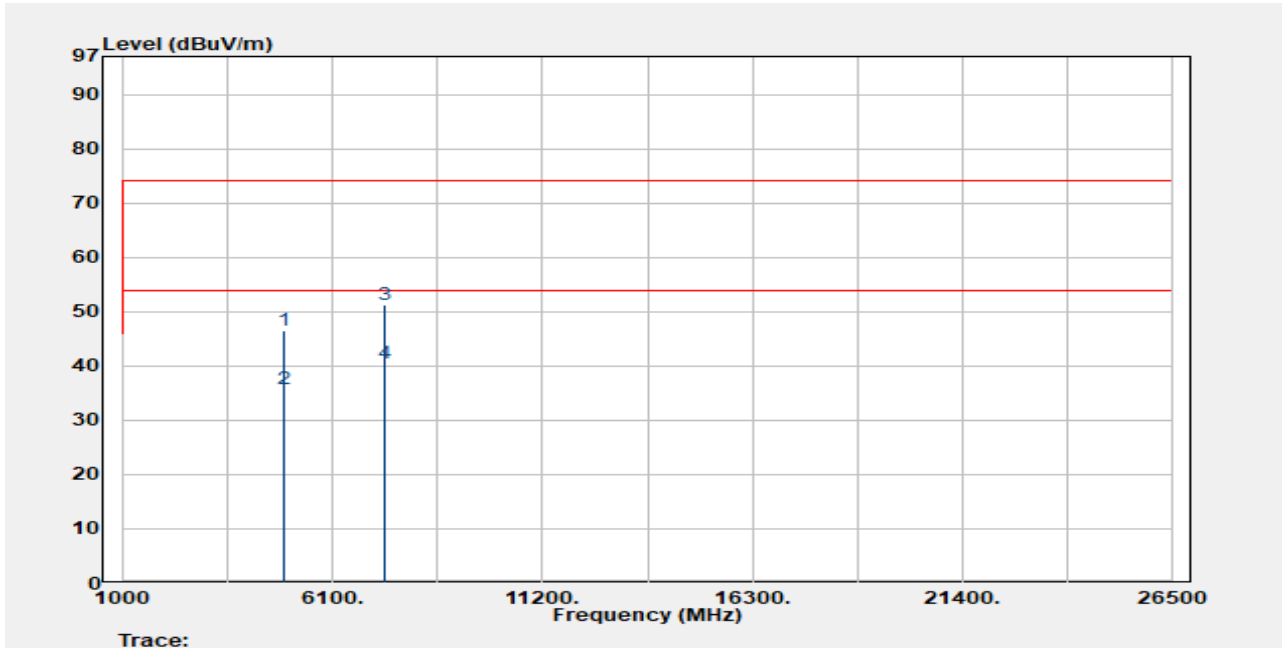
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Report Number :ER-2021-A0022
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2021-10-08
 Temp./Humi. :26.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
4904.000	Peak	38.49	7.92	46.41	74.00	-27.59
4904.000	Average	27.78	7.92	35.70	54.00	-18.30
7356.000	Peak	36.25	14.93	51.18	74.00	-22.82
7356.000	Average	25.51	14.93	40.44	54.00	-13.56

~ End of Report ~

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