

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: HTC Corporation
No. 88, Sec. 3, Zhongxing Rd. Xindian Dist., New Taipei City
231, Taiwan

Product Name: VIVE Headset

Brand Name: VIVE

Model No.: 2Q7Y100

Model Difference: N/A

Report Number: E2/2021/60090

FCC ID NM82Q7Y100

Issue Date: August 27, 2021

Date of Test: July 10, 2021 ~ August 18, 2021

Date of EUT Received: July 01, 2021

Approved By _____

Vito Pei

We hereby certify that:

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

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
E2/2021/60090	00	Original.	August 27, 2021	Tiffany Kao

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	VIVE Headset
Brand Name:	VIVE
Model No.:	2Q7Y100
Model Difference:	N/A
Hardware Version:	XG
Firmware Version:	0.50.8888.01
EUT Series No.:	5A11X2S00133
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or or 5 Vdc from USB cable

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2462	11	22.29	DSSS
802.11g	2412~2462	11	24.77	OFDM
802.11n20	2412~2462	11	27.09	OFDM
802.11n40	2422~2452	7	26.38	OFDM
802.11ac20	2412~2462	11	26.98	OFDM
802.11ac40	2422~2452	7	26.19	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS 256QAM, 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 802.11 ac_20MHz:6.5 - 144.4Mbps 802.11 ac_40MHz:13.5 - 300Mbps		

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	Amphenol	2Q7Y100	2.4GHz	-1.5	1.51
	Amphenol	2Q7Y100	2.4GHz	-1.5	1.51

Note:

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

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
 ANSI C63.10:2013

1.5 Test Facility

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

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

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

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2.5 Test Configuration

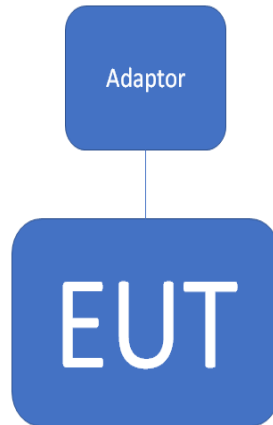
Fig. 2-1 Conducted (Antenna Port) Emission Configuration



Fig. 2-2 Radiated Emission



Fig. 2-3 Conducted (AC powerline) Emission Configuration



2.6 Control Unit(s)

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
1.	WLAN Test Softwear	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	S0011721
3.	Notebook	Lenovo	T470	P0001293
4.	Adapter	Sony	AC-0400-TW	3504600

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operatin Frequencies

Modulation of 20MHz nominal bandwidth

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

Modulation of 40MHz nominal bandwidth

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

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4.2 The Worst Test Modes and Channel Details

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

The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 1TX	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 1TX	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" 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"/> SISO	<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.

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	ch1
802.11g	1 to 11	1,6,11	OFDM	6	ch1
802.11n (HT20)	1 to 13	1,6,11	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO
802.11ac (VHT20)	1 to 11	1,6,11	OFDM	MCS0	MIMO
802.11ac (VHT40)	3 to 9	3,6,9	OFDM	MCS0	MIMO

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	6	ch1
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO

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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	ch1
802.11g	1 to 11	1,6,11	OFDM	6	ch1
802.11n (HT20)	1 to 13	1,6,11	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO

Note:

The field strength of radiation emission was measured as EUT three orthogonal planes, E1 / E2 / H, are positioned to pre-scan the emission generating the highest one. The worst position is tested and recorded.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Emission Bandwidth	+/- 1.53 Hz
The Maximum Output Power Measurement	+/- 1 dB
Peak Power Spectral Density Measurement	+/- 1.53 dB
Frequency Stability	+/- 1.53 Hz
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 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Radiated Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 6.11-20180419c	N.C.R	N.C.R
LISN	SCHWARZBEC K Mess- Elektronik	NSLK8127	974	04/19/2021	04/18/2022
EMI Test Receiver	R&S	ESCI	101342	04/28/2021	04/27/2022
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2021	03/26/2022
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2021	03/26/2022
Adapter	Sony	AC-0400-TW	3504600	N.C.R	N.C.R
USB Cable	COXOC	C807M3A03 E1E2	N/A	N.C.R	N.C.R
USB to Type-c	A-GOOD	USB to Type-c	N/A	N.C.R	N.C.R

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

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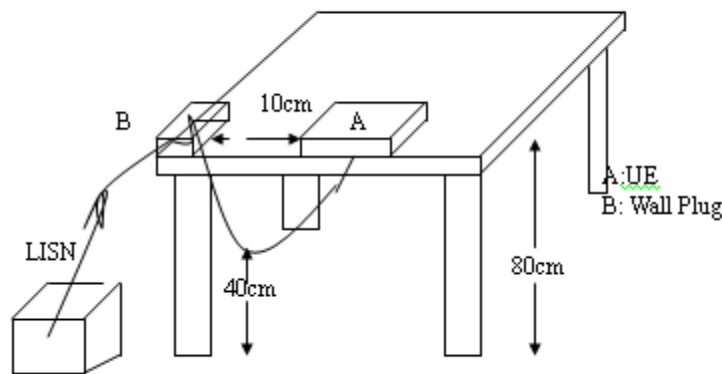
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6.3 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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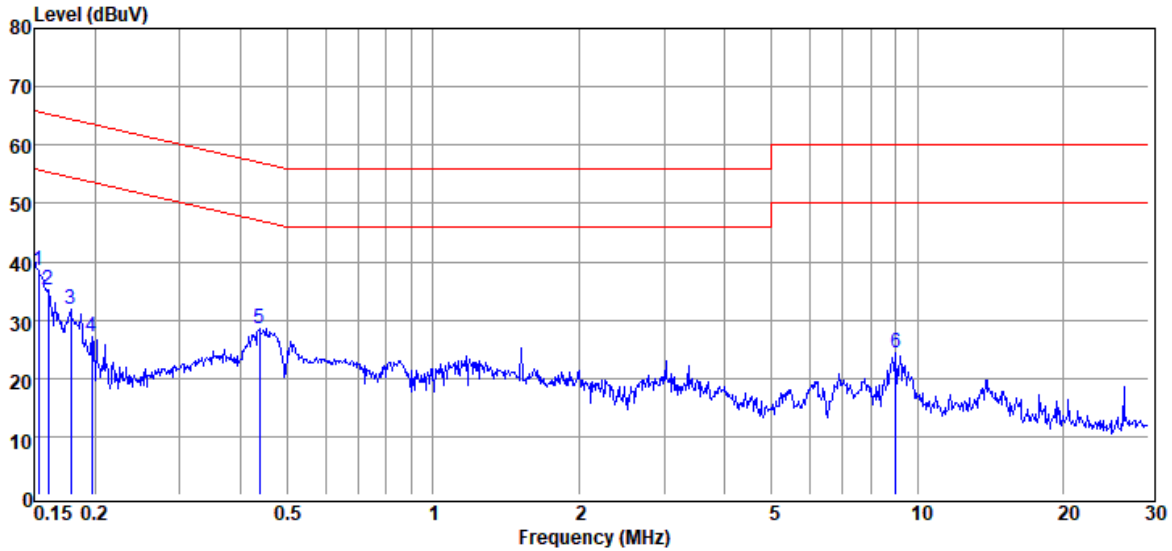
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :E2/2021/60090
 Test Mode :2.4G
 Power :120V/60Hz
 Probe :L1

Test Site :Conduction Room C
 Test Date :2021-07-22
 Temp./Humi. :24.0/64
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV	Limit dBuV	Margin dB
0.15	Peak	28.29	10.30	38.59	65.82	-27.23
0.16	Peak	24.89	10.30	35.19	65.43	-30.24
0.18	Peak	21.48	10.30	31.78	64.55	-32.77
0.20	Peak	16.77	10.30	27.07	63.71	-36.64
0.44	Peak	18.18	10.31	28.49	57.11	-28.62
9.01	Peak	13.76	10.64	24.40	60.00	-35.60

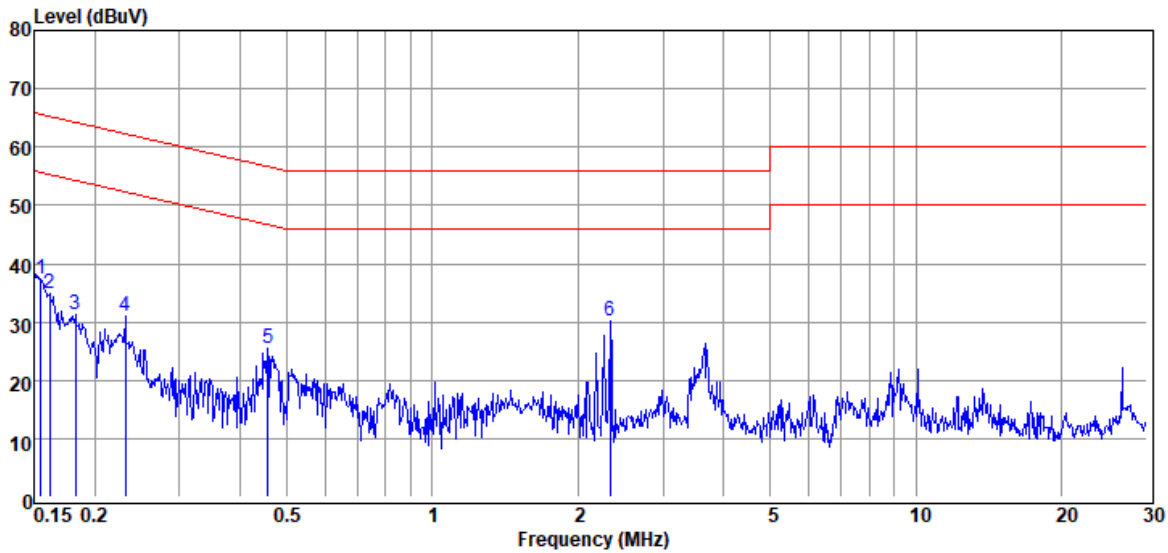
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Report Number :E2/2021/60090
 Test Mode :2.4G
 Power :120V/60Hz
 Probe :N

Test Site :Conduction Room C
 Test Date :2021-07-22
 Temp./Humi. :24.0/64
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.15	Peak	26.93	10.31	37.24	65.74	-28.50
0.16	Peak	24.55	10.31	34.86	65.38	-30.52
0.18	Peak	21.03	10.30	31.33	64.37	-33.04
0.23	Peak	20.65	10.30	30.95	62.39	-31.44
0.46	Peak	15.14	10.32	25.46	56.76	-31.30
2.33	Peak	19.14	11.07	30.21	56.00	-25.79

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7 DUTY CYCLE OF TEST SIGNAL

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

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

7.1 Measurement Procedure:

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

7.2 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.30	0.03	0.08	0.01
802.11g	98.29	0.07	0.48	0.01
802.11n_20	98.16	0.08	0.52	0.01
802.11n_40	94.89	0.23	1.05	2.00
802.11ac_20	97.45	0.11	0.52	1.00
802.11ac_40	94.02	0.27	1.06	2.00

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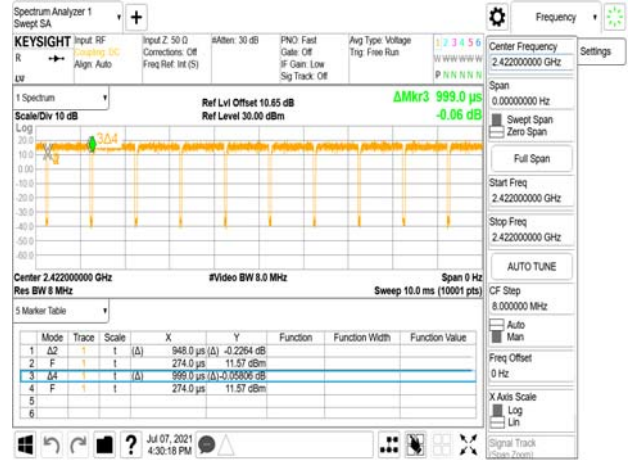
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7.3 Duty Cycle test plots

802.11b_20MHz_Chain1_2412MHz



802.11n_40MHz_Chain1_2422MHz



802.11g_20MHz_Chain1_2412MHz



802.11ac_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2412MHz



802.11ac_40MHz_Chain1_2422MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 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 form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

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

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

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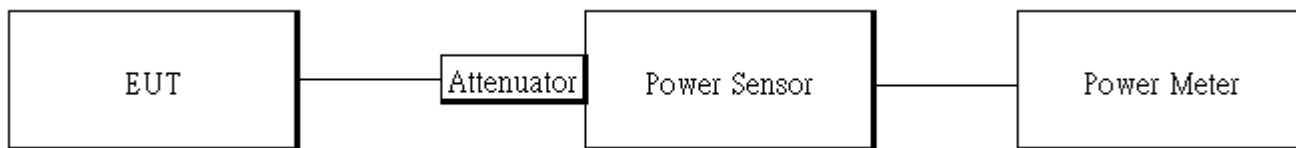
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8.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
Attenuator	Marvelous	WATT-218FS-10	RF22	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022

8.3 Test Set-up

Power Meter:



8.4 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.**

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8.5 Measurement Result

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	19.5	22.10	30.00	PASS
6	2437	1	19.5	22.06	30.00	PASS
11	2462	1	19.5	21.57	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	19.5	19.81	30.00	PASS
6	2437	1	19.5	19.82	30.00	PASS
11	2462	1	19.5	19.61	30.00	PASS

802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	19.5	22.29	30.00	PASS
6	2437	1	19.5	22.27	30.00	PASS
11	2462	1	19	21.86	30.00	PASS

802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	19.5	19.95	30.00	PASS
6	2437	1	19.5	19.89	30.00	PASS
11	2462	1	19	19.90	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	18	23.93	30.00	PASS
6	2437	6	18	23.97	30.00	PASS
11	2462	6	18.5	23.99	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	18	18.04	30.00	PASS
6	2437	6	18	18.07	30.00	PASS
11	2462	6	18.5	18.19	30.00	PASS

802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	18	24.36	30.00	PASS
6	2437	6	18	24.77	30.00	PASS
11	2462	6	18	24.43	30.00	PASS

802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	18	18.33	30.00	PASS
6	2437	6	18	18.39	30.00	PASS
11	2462	6	18	18.47	30.00	PASS

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802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	17	23.97	30.00	PASS
6	2437	MCS0	18	23.94	30.00	PASS
11	2462	MCS0	17	23.74	30.00	PASS

802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	17	17.13	30.00	PASS
6	2437	MCS0	18	18.09	30.00	PASS
11	2462	MCS0	17	16.78	30.00	PASS

802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	17.5	24.12	30.00	PASS
6	2437	MCS0	18	24.82	30.00	PASS
11	2462	MCS0	17	23.98	30.00	PASS

802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	17.5	17.34	30.00	PASS
6	2437	MCS0	18	18.39	30.00	PASS
11	2462	MCS0	17	16.81	30.00	PASS

802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	18	23.34	23.73	26.55	30.00	PASS
6	2437	MCS8	18.5	23.84	24.30	27.09	30.00	PASS
11	2462	MCS8	17.5	23.33	23.49	26.42	30.00	PASS

802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	18	17.03	17.69	20.46	30.00	PASS
6	2437	MCS8	18.5	18.30	18.37	21.43	30.00	PASS
11	2462	MCS8	17.5	16.79	17.12	20.05	30.00	PASS

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802.11n_HT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	13	22.58	30.00	PASS
6	2437	MCS0	15	23.48	30.00	PASS
9	2452	MCS0	15	23.56	30.00	PASS

802.11n_HT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	13	13.57	30.00	PASS
6	2437	MCS0	15	15.31	30.00	PASS
9	2452	MCS0	15	15.25	30.00	PASS

802.11n_HT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14	22.64	30.00	PASS
6	2437	MCS0	15.5	23.50	30.00	PASS
9	2452	MCS0	15.5	23.62	30.00	PASS

802.11n_HT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14	13.85	30.00	PASS
6	2437	MCS0	15.5	15.42	30.00	PASS
9	2452	MCS0	15.5	15.35	30.00	PASS

802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	14	22.30	22.78	25.56	30.00	PASS
6	2437	MCS8	15.5	23.02	23.45	26.25	30.00	PASS
9	2452	MCS8	15.5	23.15	23.58	26.38	30.00	PASS

802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	14	13.27	14.05	16.92	30.00	PASS
6	2437	MCS8	15.5	14.70	15.30	18.25	30.00	PASS
9	2452	MCS8	15.5	14.79	15.29	18.29	30.00	PASS

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802.11ac_VHT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	18	23.77	30.00	PASS
6	2437	MCS0	18	24.00	30.00	PASS
11	2462	MCS0	18	23.68	30.00	PASS

802.11ac_VHT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	18	18.04	30.00	PASS
6	2437	MCS0	18	18.08	30.00	PASS
11	2462	MCS0	18	18.06	30.00	PASS

802.11ac_VHT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	18	23.98	30.00	PASS
6	2437	MCS0	18	24.61	30.00	PASS
11	2462	MCS0	18	23.87	30.00	PASS

802.11ac_VHT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	18	18.31	30.00	PASS
6	2437	MCS0	18	18.35	30.00	PASS
11	2462	MCS0	18	18.41	30.00	PASS

802.11ac_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS0	18	23.27	23.68	26.49	30.00	PASS
6	2437	MCS0	18.5	23.77	24.16	26.98	30.00	PASS
11	2462	MCS0	17.5	23.27	23.38	26.34	30.00	PASS

802.11ac_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS0	18	17.00	17.58	20.42	30.00	PASS
6	2437	MCS0	18.5	18.24	18.35	21.42	30.00	PASS
11	2462	MCS0	17.5	16.68	17.05	19.99	30.00	PASS

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802.11ac_VHT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	13	22.43	30.00	PASS
6	2437	MCS0	15	23.31	30.00	PASS
9	2452	MCS0	15	23.47	30.00	PASS

802.11ac_VHT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	13	13.55	30.00	PASS
6	2437	MCS0	15	15.24	30.00	PASS
9	2452	MCS0	15	15.19	30.00	PASS

802.11ac_VHT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14	22.55	30.00	PASS
6	2437	MCS0	15.5	23.43	30.00	PASS
9	2452	MCS0	15.5	23.51	30.00	PASS

802.11ac_VHT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14	13.83	30.00	PASS
6	2437	MCS0	15.5	15.38	30.00	PASS
9	2452	MCS0	15.5	15.33	30.00	PASS

802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS0	14	22.21	22.65	25.45	30.00	PASS
6	2437	MCS0	15.5	22.87	23.35	26.13	30.00	PASS
9	2452	MCS0	15.5	23.06	23.30	26.19	30.00	PASS

802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS0	14	13.20	13.99	16.89	30.00	PASS
6	2437	MCS0	15.5	14.68	15.24	18.25	30.00	PASS
9	2452	MCS0	15.5	14.72	15.23	18.26	30.00	PASS

Note: Offset 10.65dB for 2.4G 802.11b/g/n/ac_20/n/ac_40

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9 EMISSION BANDWIDTH MEASUREMENT

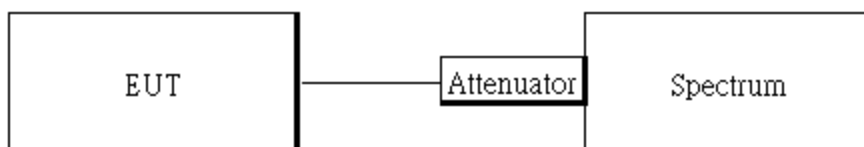
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/18/2021	06/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N/A	N/A

9.3 Test Set-up



9.4 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 spectrum analyzer.
4. Set the spectrum analyzer as
 RBW= 100kHz ,
 VBW = 3 X RBW,
 Span= 2 to 5 times of the OBW,
 Sweep=auto,
 Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Repeat above procedures until all test default channel is completed

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9.5 6dB Bandwidth

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8121.00	≥ 500	PASS
2437	8117.00	≥ 500	PASS
2462	8120.00	≥ 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16340.00	≥ 500	PASS
2437	16360.00	≥ 500	PASS
2462	16370.00	≥ 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17620.00	≥ 500	PASS
2437	17600.00	≥ 500	PASS
2462	17610.00	≥ 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17610.00	≥ 500	PASS
2437	17600.00	≥ 500	PASS
2462	17620.00	≥ 500	PASS

802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36360.00	≥ 500	PASS
2437	36380.00	≥ 500	PASS
2452	36400.00	≥ 500	PASS

802.11_n_HT40 Ch1

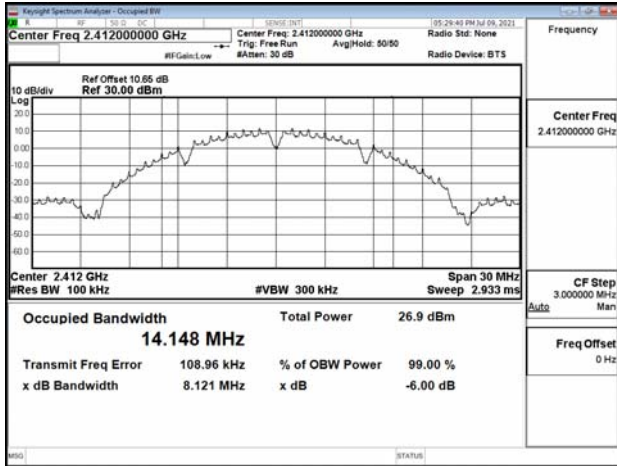
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36000.00	≥ 500	PASS
2437	36380.00	≥ 500	PASS
2452	36390.00	≥ 500	PASS

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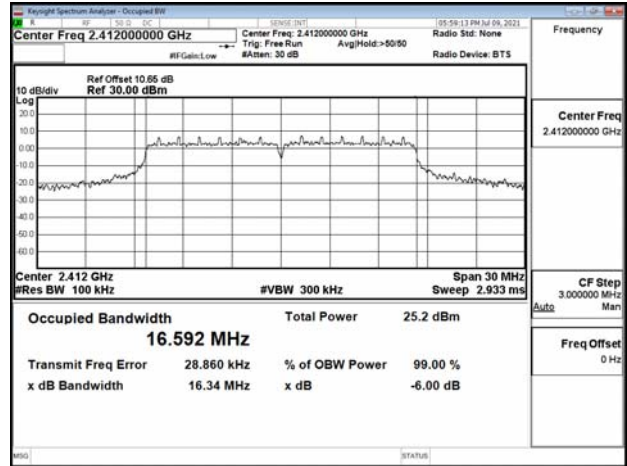
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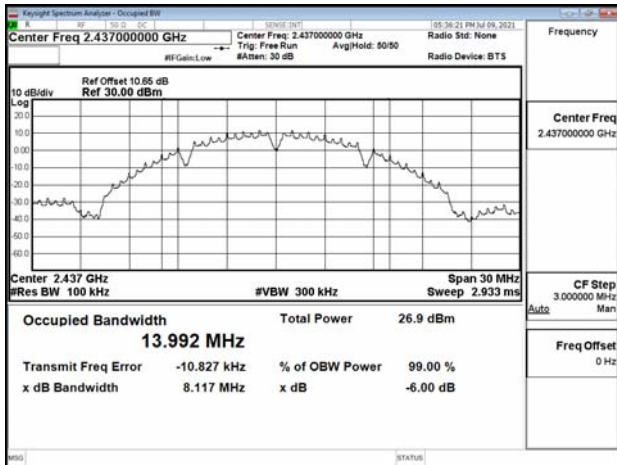
802.11b_20MHz_Chain1_2412MHz



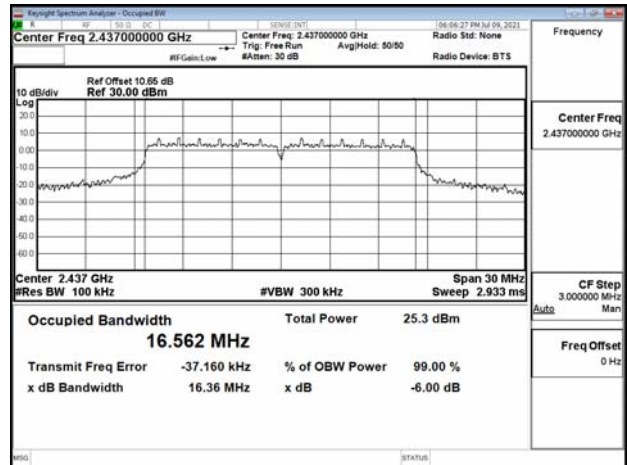
802.11g_20MHz_Chain1_2412MHz



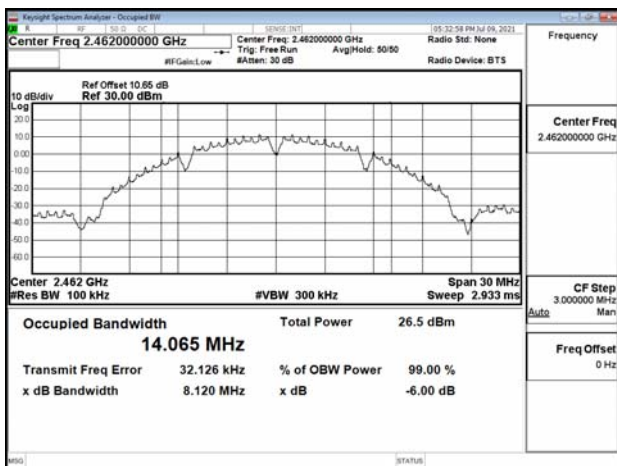
802.11b_20MHz_Chain1_2437MHz



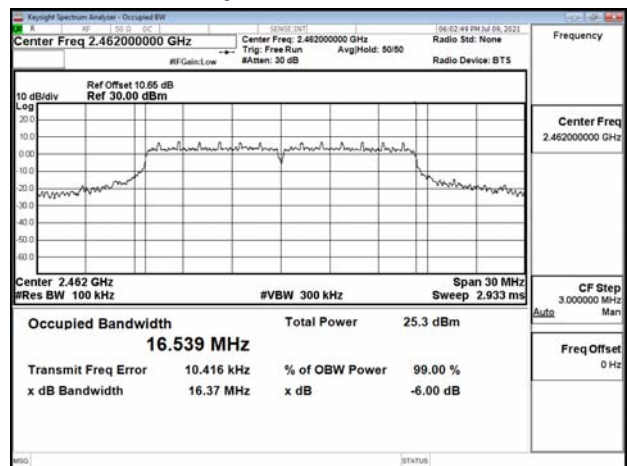
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

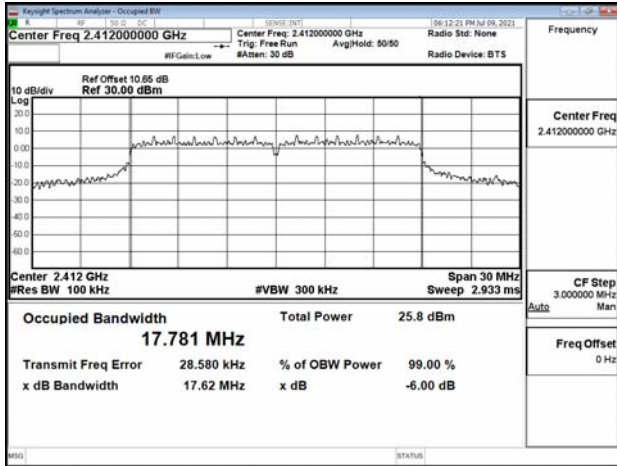


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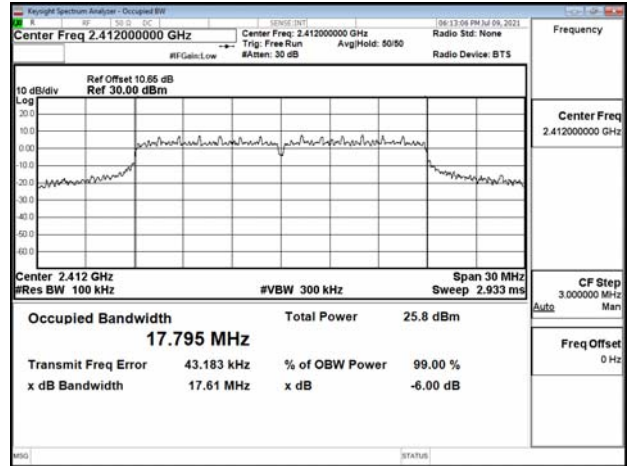
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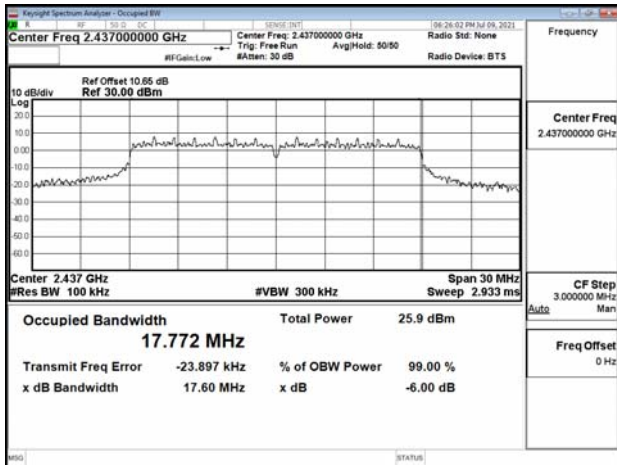
802.11n_20MHz_Chain0_2412MHz



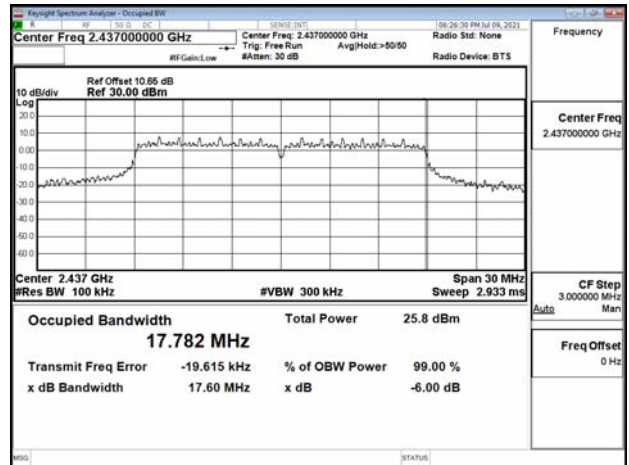
802.11n_20MHz_Chain1_2412MHz



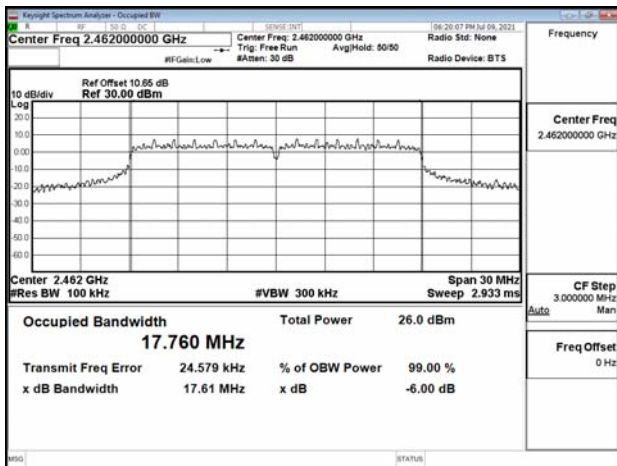
802.11n_20MHz_Chain0_2437MHz



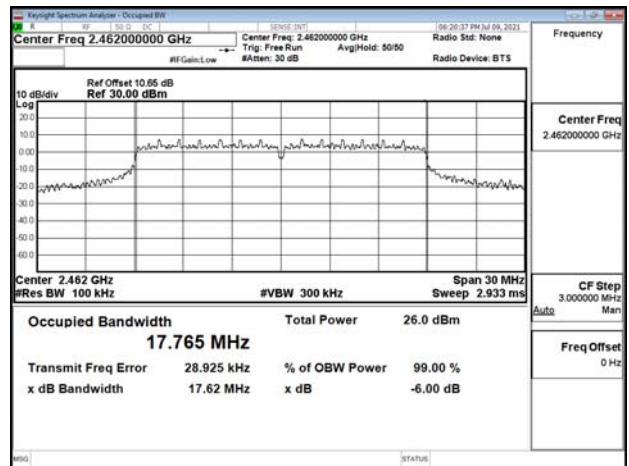
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

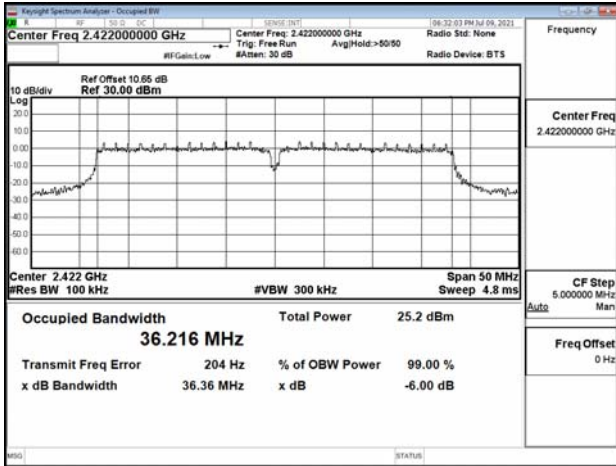


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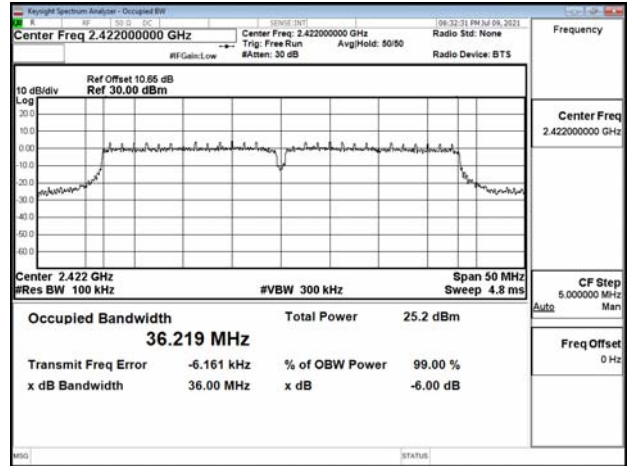
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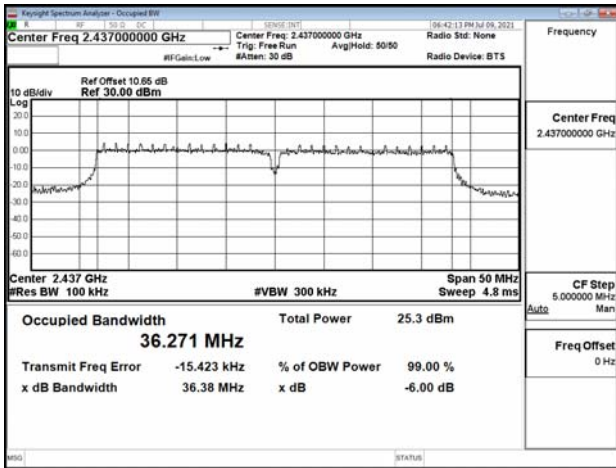
802.11n_40MHz_Chain0_2422MHz



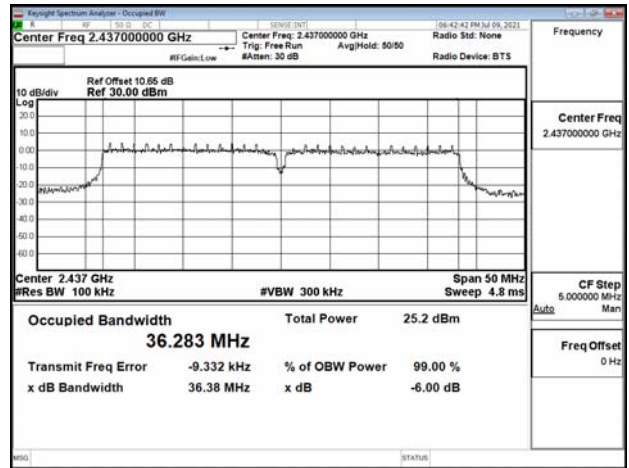
802.11n_40MHz_Chain1_2422MHz



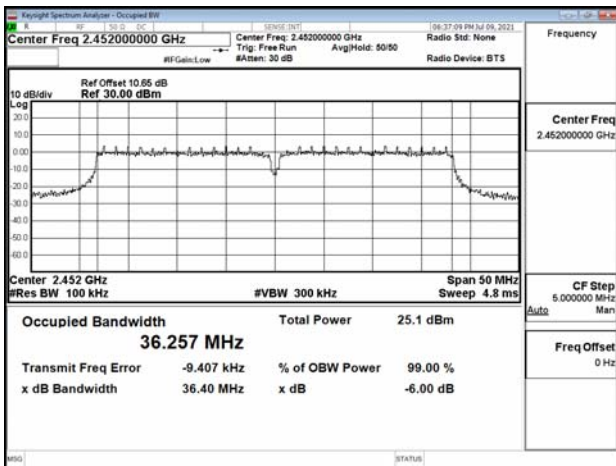
802.11n_40MHz_Chain0_2437MHz



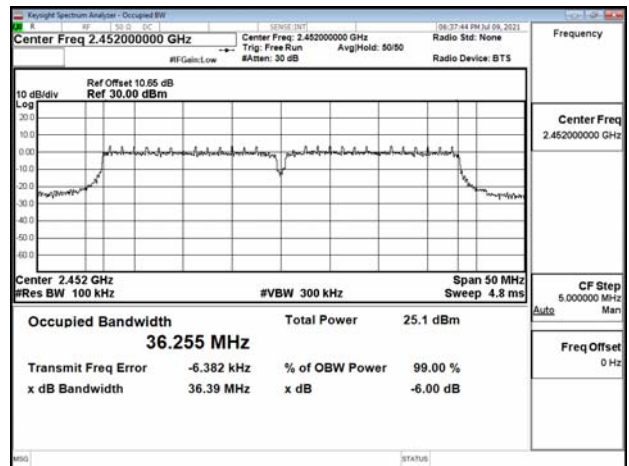
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

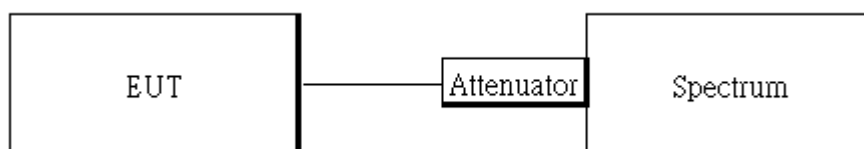
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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, as defined in §15.205(a) must also comply with the radiated emission limits specified in §15.209(a)

10.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/18/2021	06/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N/A	N/A

10.3 Test SET-UP



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10.4 Measurement Procedure

Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
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 spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

10.5 Measurement Result

Reference Level of Limit 802.11b mode			Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	11.50	-8.50	2412	7.36	-12.64
2437	11.61	-8.39	2437	7.37	-12.63
2462	11.29	-8.71	2462	7.33	-12.67

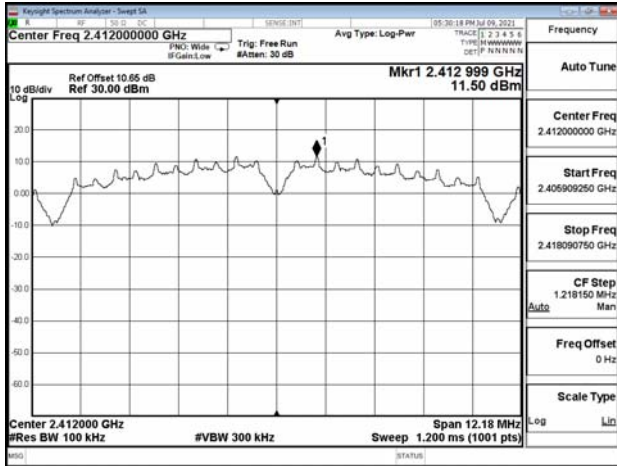
Reference Level of Limit 802.11n20 mode			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.88	-9.12	2422	7.492	-12.51
2437	10.73	-9.27	2437	7.31	-12.69
2462	10.67	-9.33	2452	6.657	-13.34

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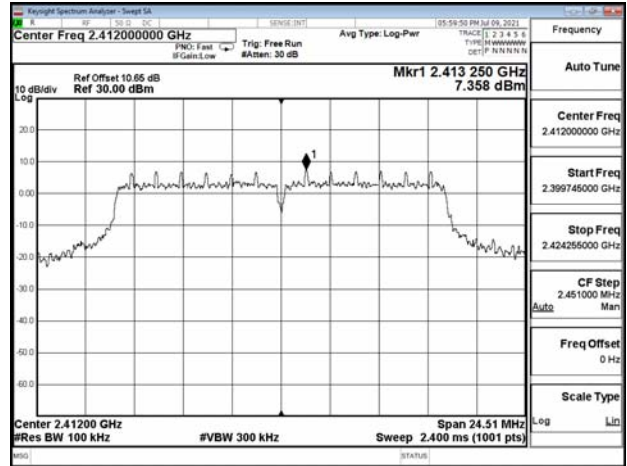
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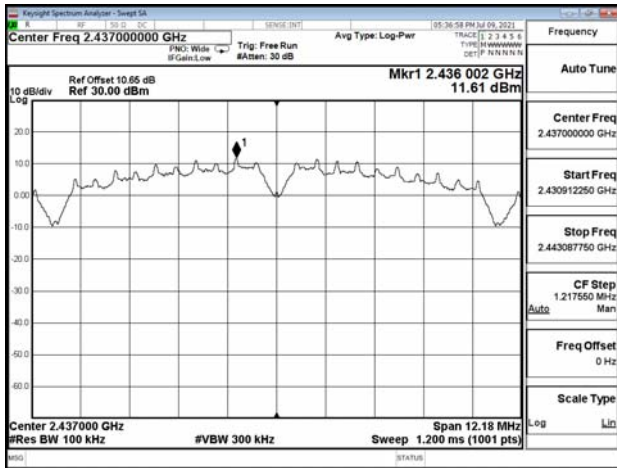
Reference_Level 802.11b_20MHz_Chain1_2412MHz



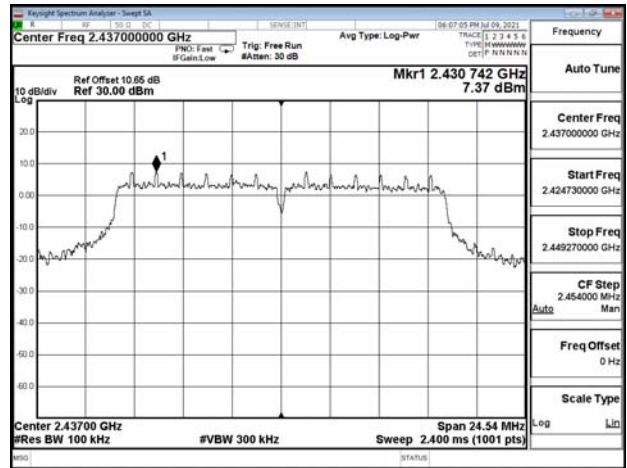
802.11g_20MHz_Chain1_2412MHz



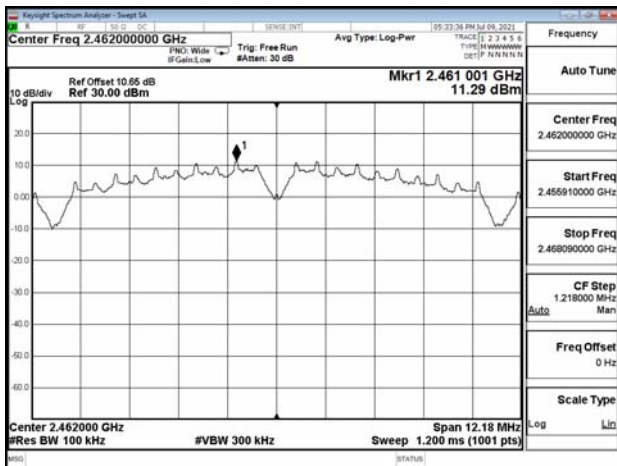
802.11b_20MHz_Chain1_2437MHz



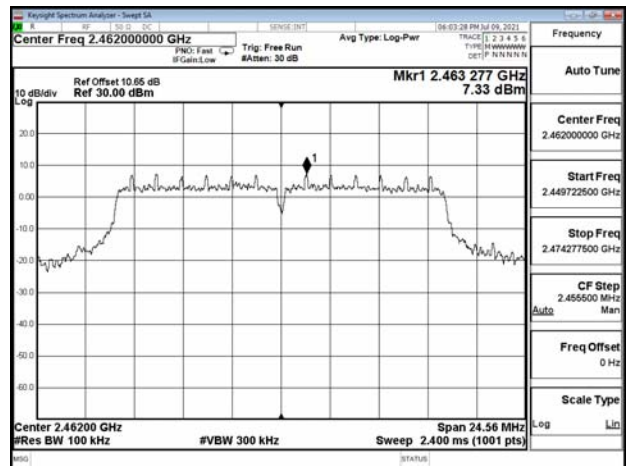
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

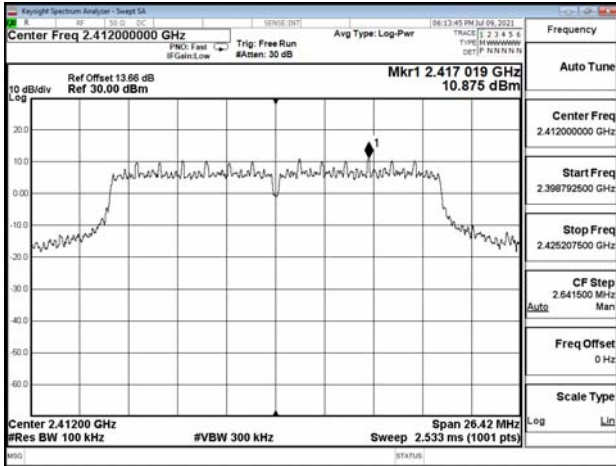


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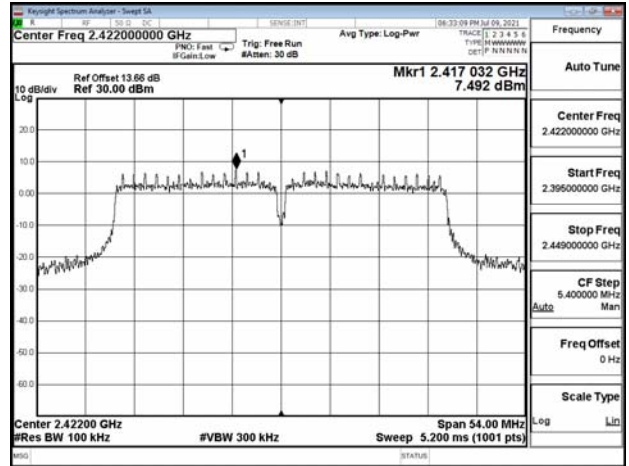
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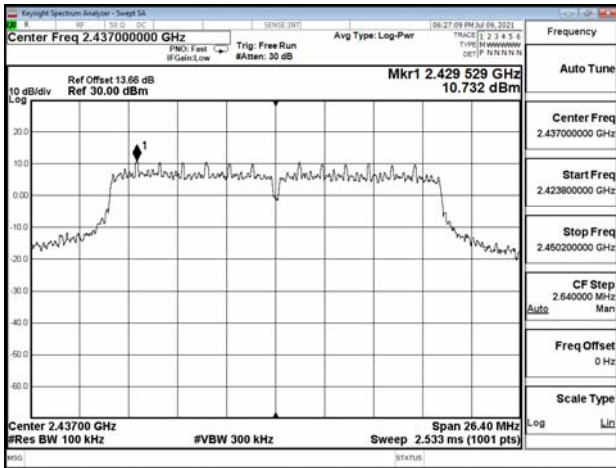
802.11n_20MHz_Chain1_2412MHz



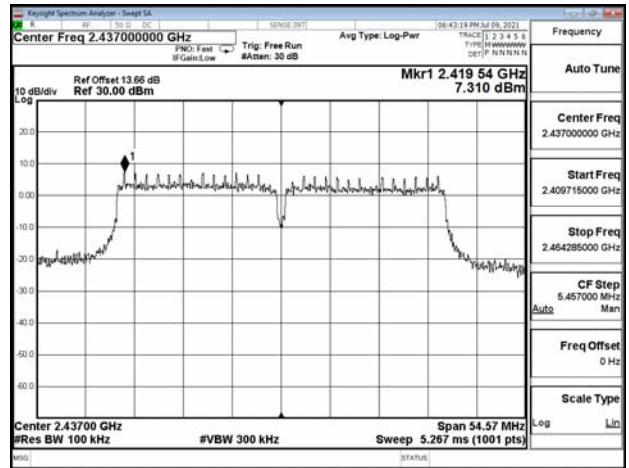
802.11n_40MHz_Chain1_2422MHz



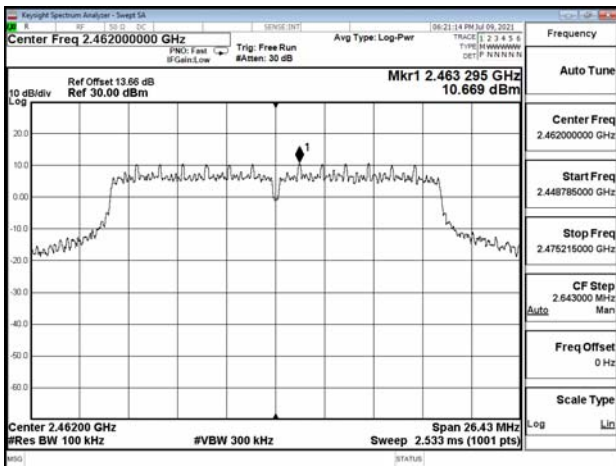
802.11n_20MHz_Chain1_2437MHz



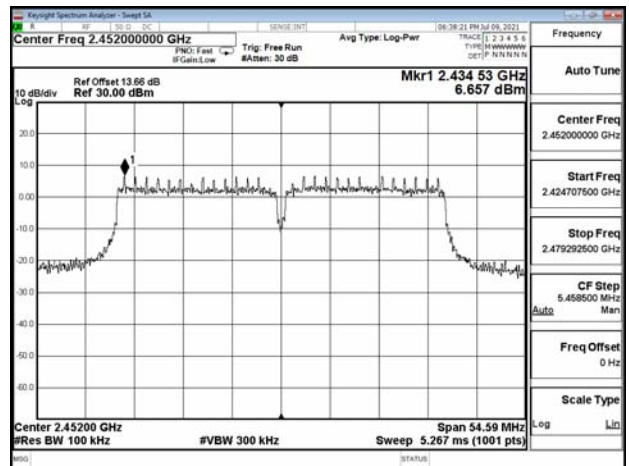
802.11n_40MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2462MHz



802.11n_40MHz_Chain1_2452MHz

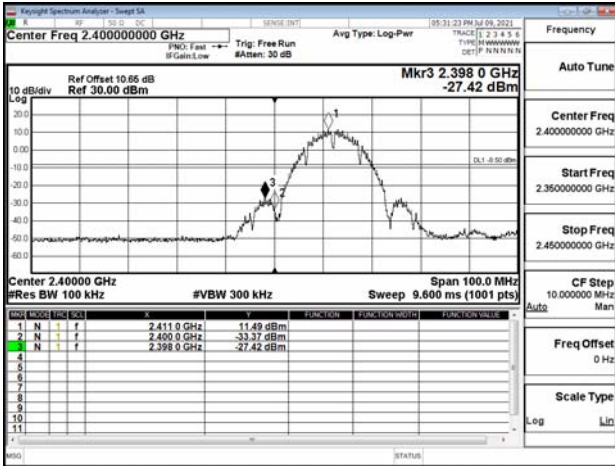


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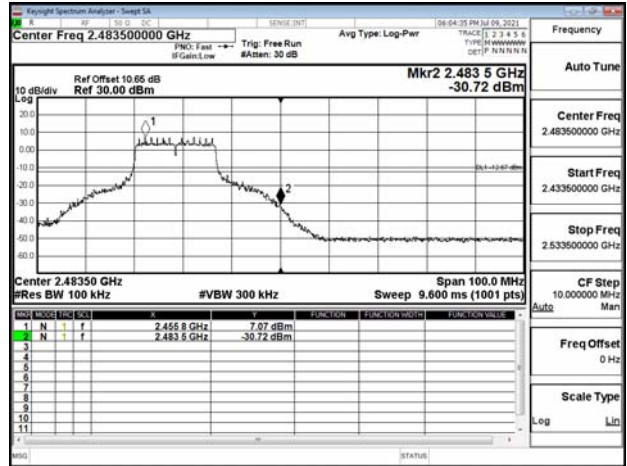
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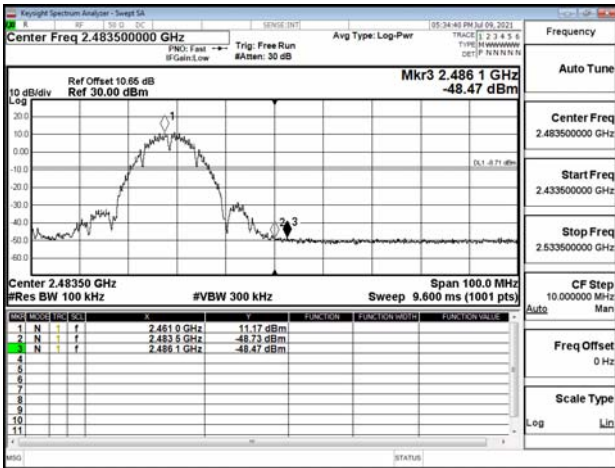
Band_Edge 802.11b_20MHz_Chain1_2412MHz



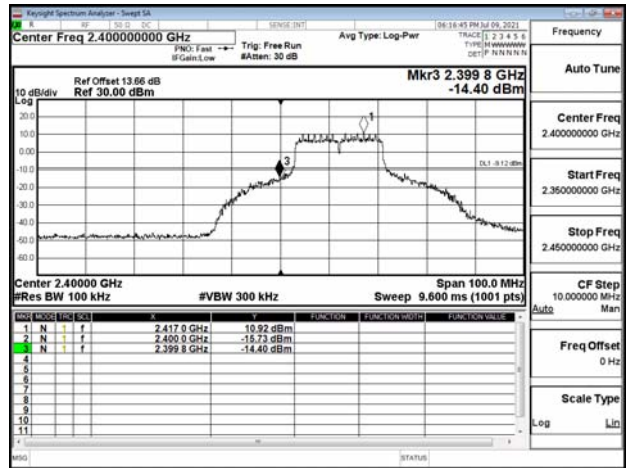
802.11g_20MHz_Chain1_2462MHz



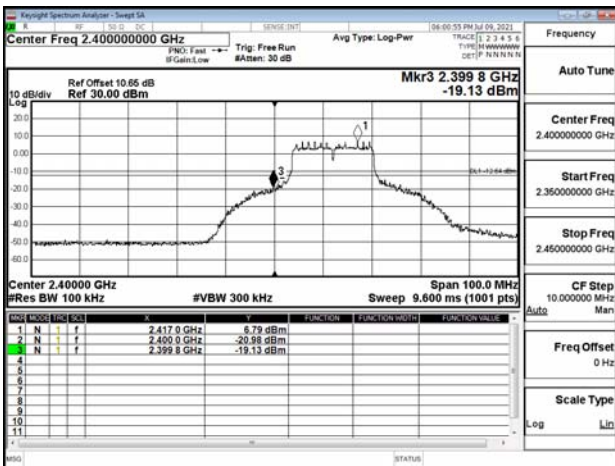
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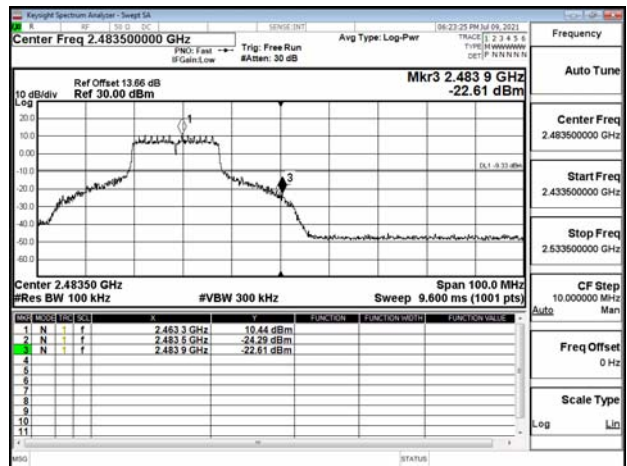
802.11n_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain1_2412MHz

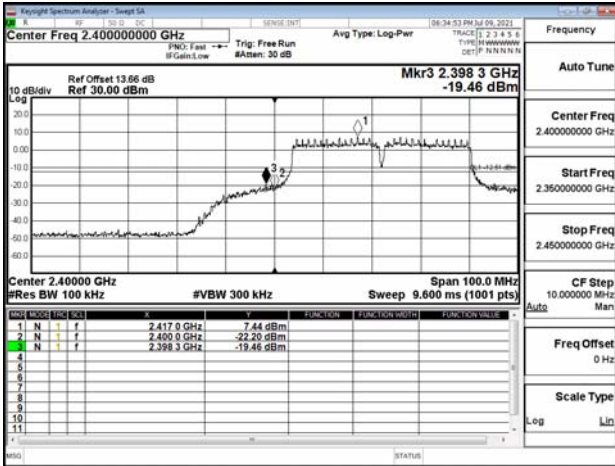


802.11n_20MHz_Chain1_2462MHz

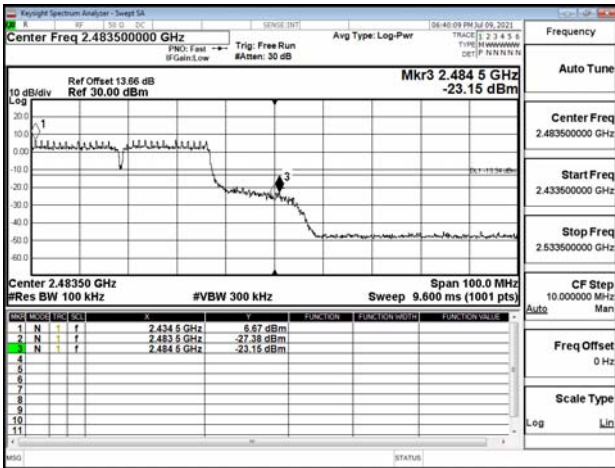


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802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain1_2452MHz

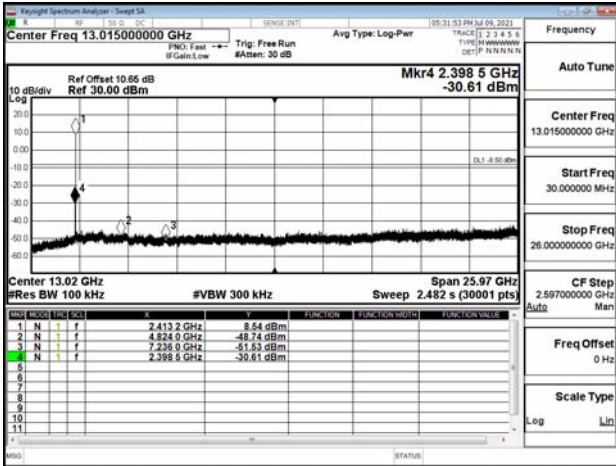


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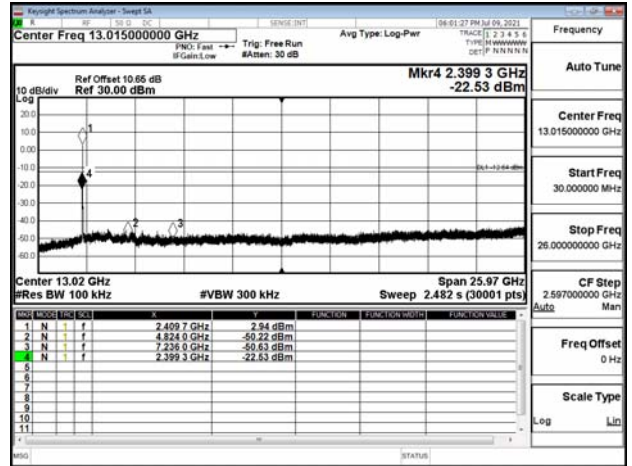
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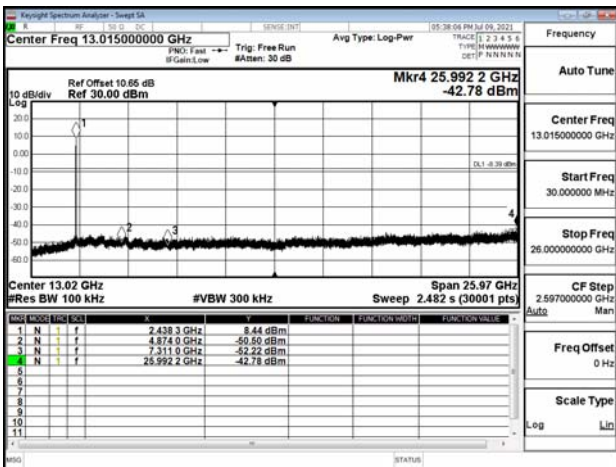
Spurious_Emission 802.11b_20MHz_Chain1_2412MHz



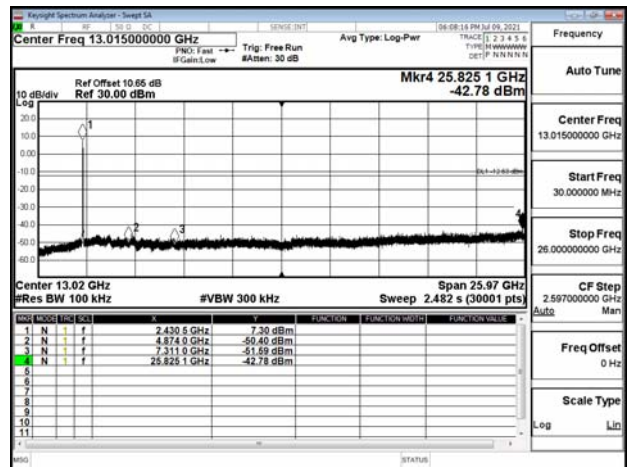
802.11g_20MHz_Chain1_2412MHz



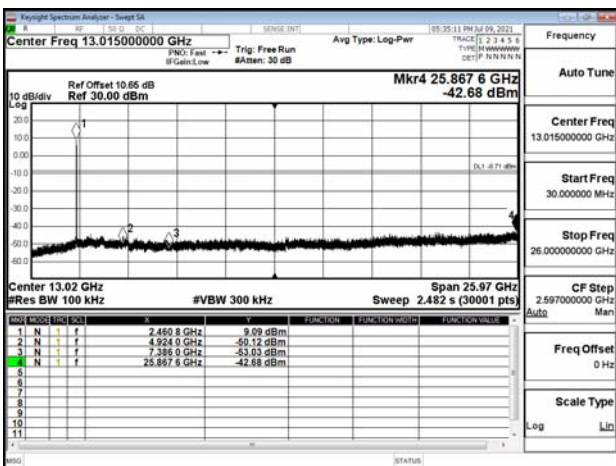
802.11b_20MHz_Chain1_2437MHz



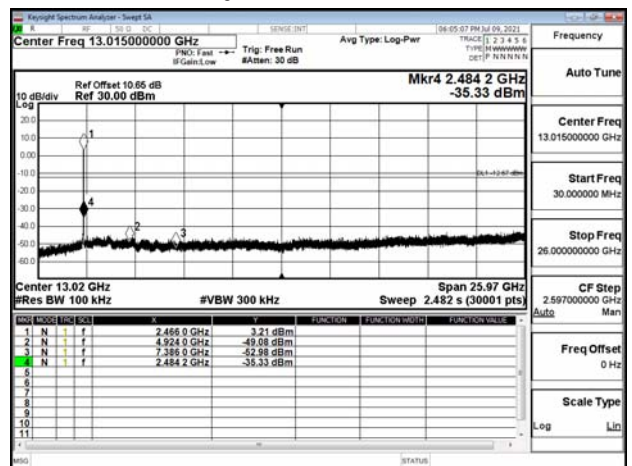
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz

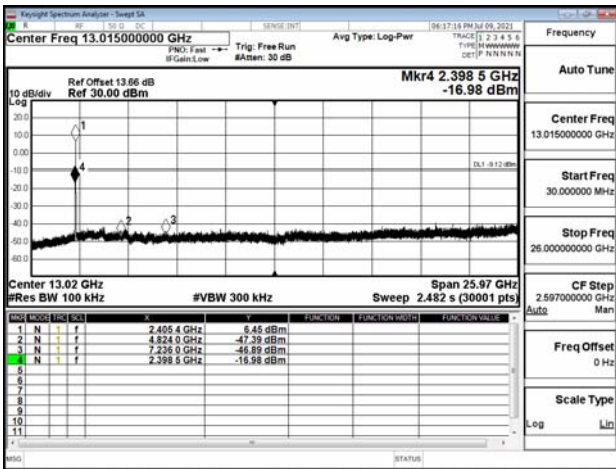


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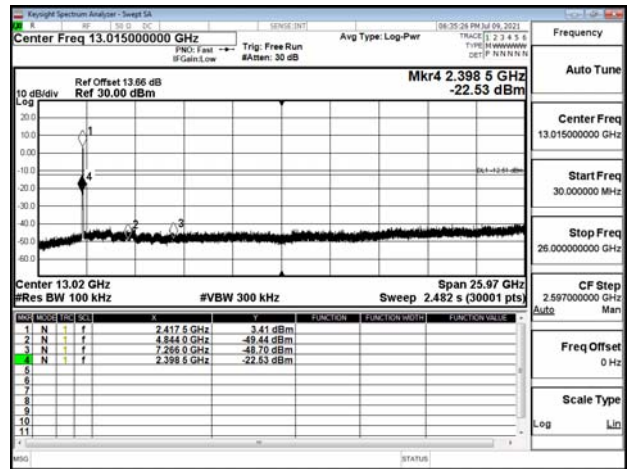


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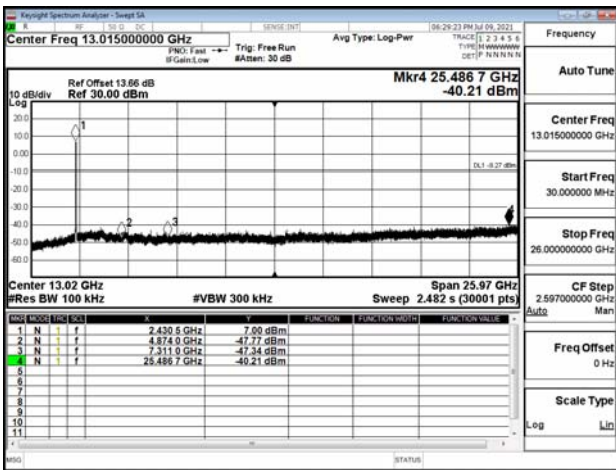
802.11n_20MHz_Chain1_2412MHz



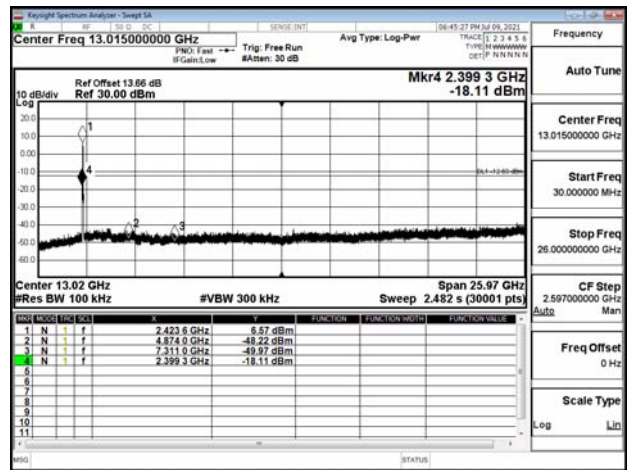
802.11n_40MHz_Chain1_2422MHz



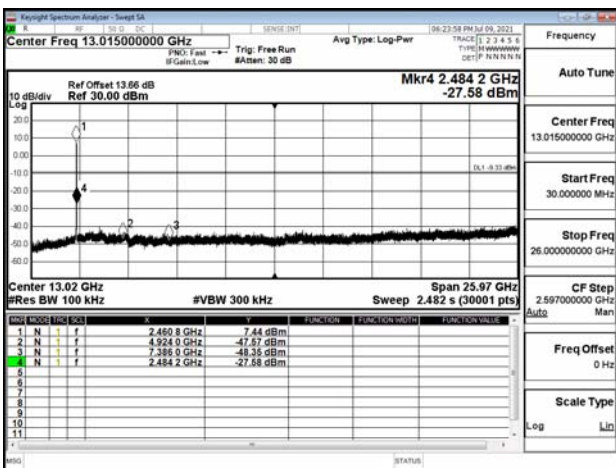
802.11n_20MHz_Chain1_2437MHz



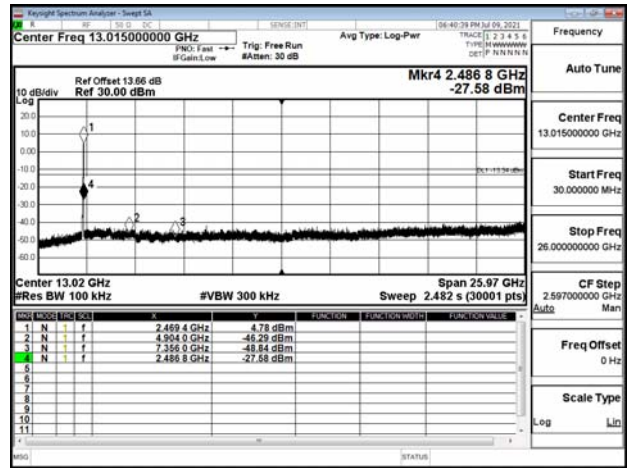
802.11n_40MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2462MHz



802.11n_40MHz_Chain1_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

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

Note:

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

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11.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	03/22/2021	03/21/2022
Pre-Amplifier	EMC Instruments	EMC184045 B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630S E	980271	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF25	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
USB Cable	COXOC	C807M3A03 E1E2	N/A	N.C.R	N.C.R
Notebook	Lenovo	T470	P0001293	N/A	N/A
USB to Type-c	A-GOOD	USB to Type-c	N/A	N.C.R	N.C.R

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

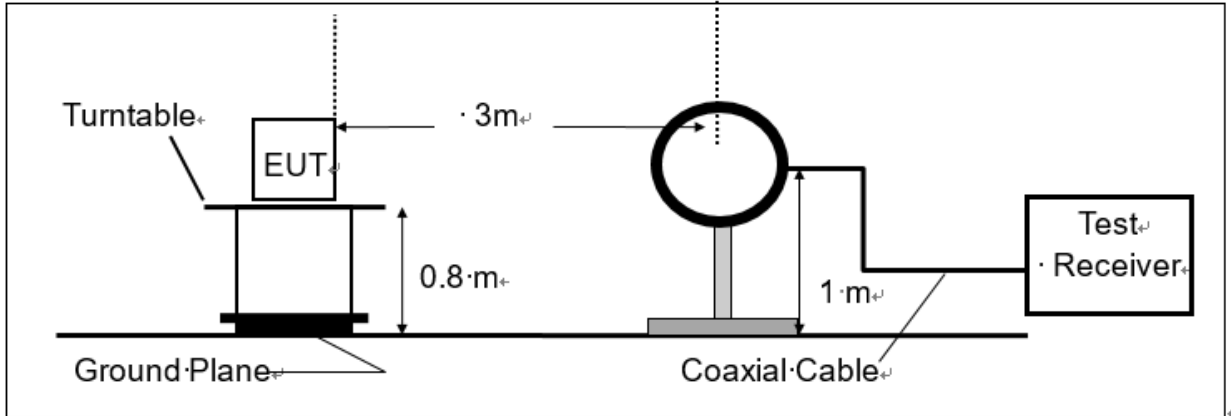
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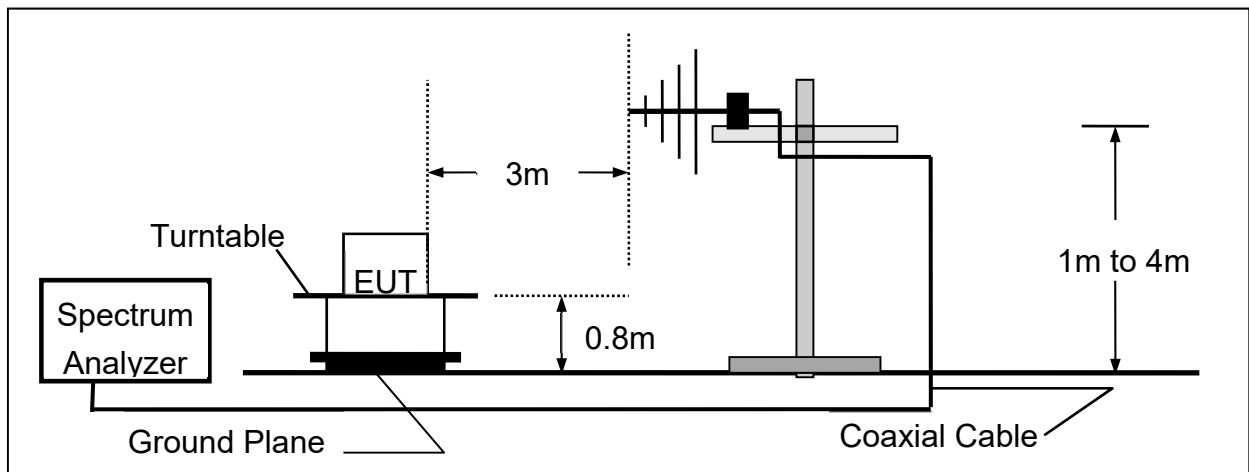
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11.3 Test SET-UP

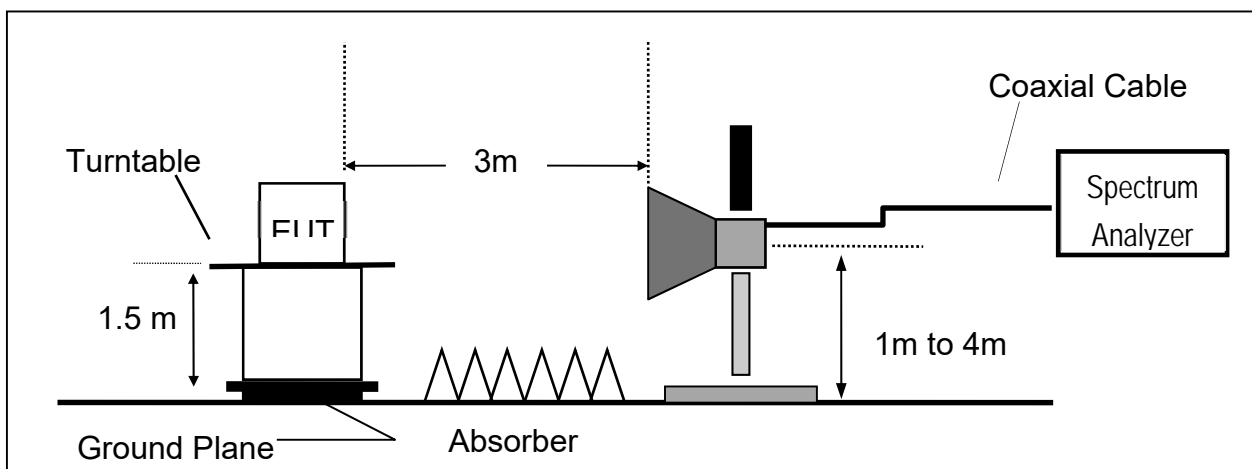
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.4 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.

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11.5 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 $20 \cdot \log(uV/m)$

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

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

11.6 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) was not reported.

11.7 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

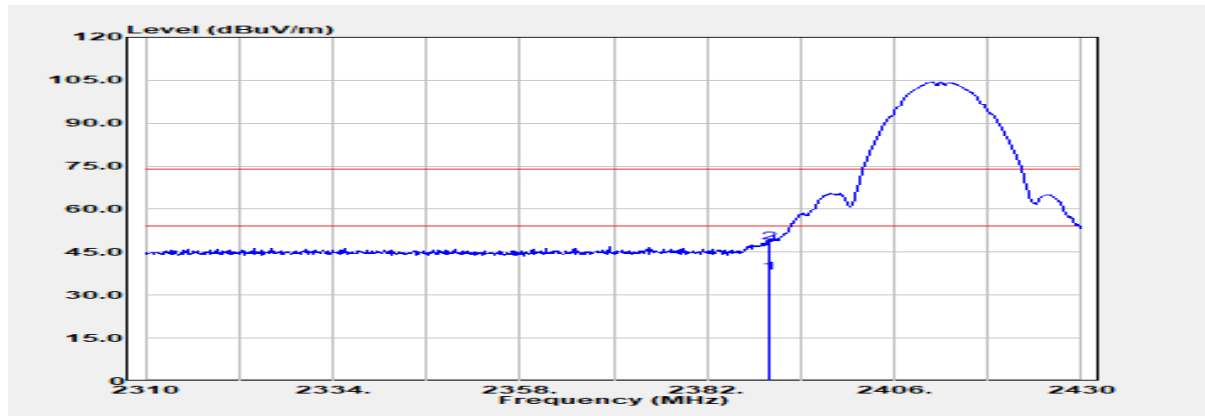
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11.7.1 Radiated Band Edge Measurement Result

Report Number	:E2/2021/60090	Test Site	:SAC D
Operation Mode	:802.11b	Test Date	:2021-07-16
Test Frequency	:2412 MHz	Temp./Humi.	:23.5/62
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Andy Wang



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
2390.000	Average	45.87	-7.89	37.98	54.00	-16.02
2390.000	Peak	56.40	-7.89	48.51	74.00	-25.49

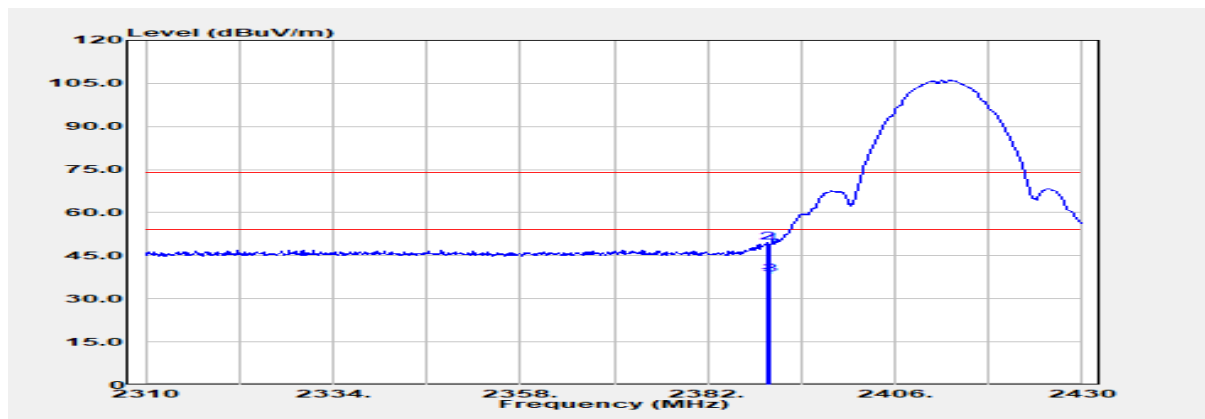
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Report Number :E2/2021/60090
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.560	Average	45.51	-7.87	37.64	54.00	-16.36
2389.560	Peak	57.52	-7.87	49.65	74.00	-24.35
2390.000	Average	46.36	-7.89	38.48	54.00	-15.52
2390.000	Peak	56.92	-7.89	49.03	74.00	-24.97

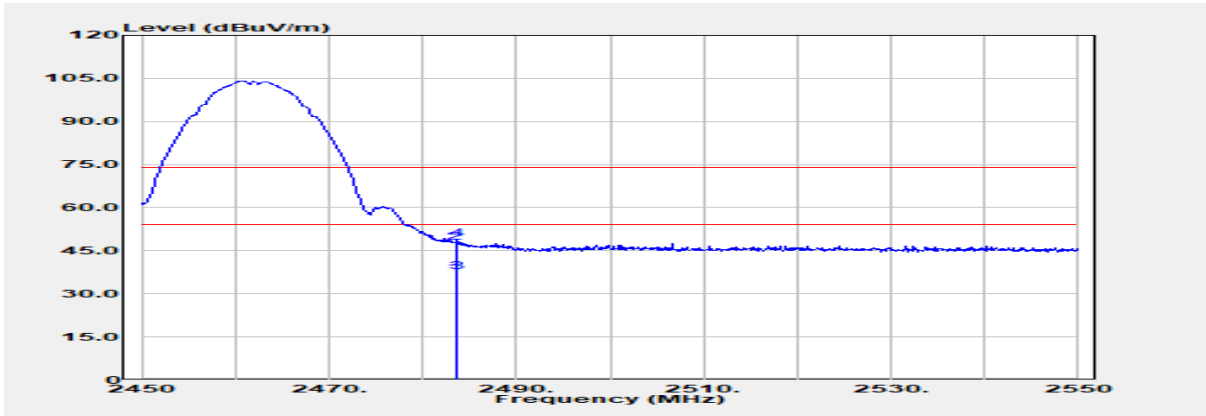
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Report Number :E2/2021/60090
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :23.5/62
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	45.24	-8.15	37.09	54.00	-16.91
2483.500	Peak	56.08	-8.15	47.93	74.00	-26.07
2483.700	Average	45.64	-8.15	37.49	54.00	-16.51
2483.700	Peak	57.07	-8.15	48.92	74.00	-25.08

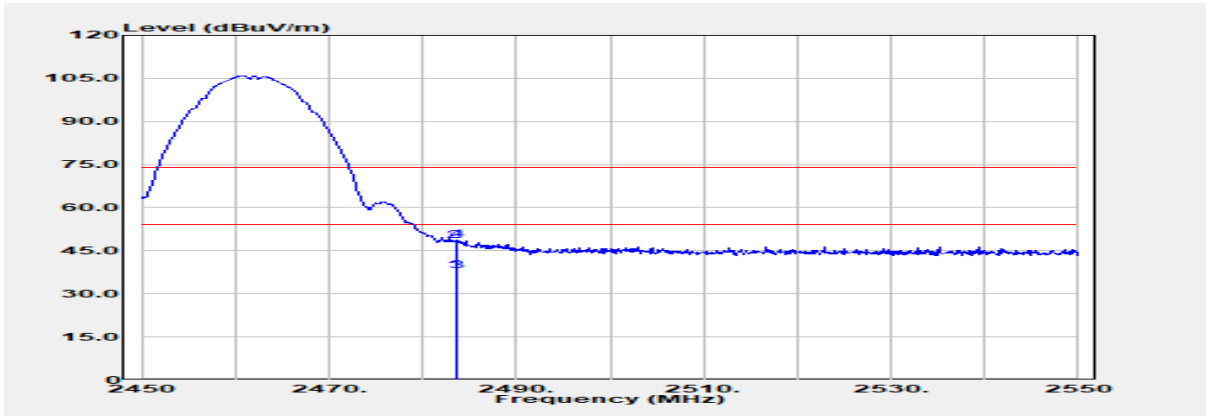
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Report Number :E2/2021/60090
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	46.04	-8.15	37.88	54.00	-16.12
2483.500	Peak	56.71	-8.15	48.55	74.00	-25.45
2483.600	Average	46.07	-8.15	37.92	54.00	-16.08
2483.600	Peak	56.74	-8.15	48.59	74.00	-25.41

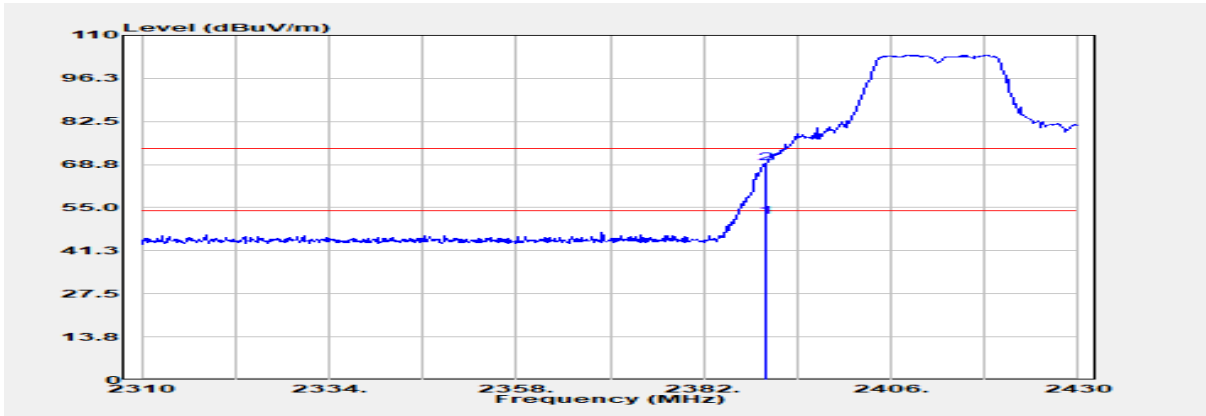
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
2390.000	Average	59.88	-7.89	51.99	54.00	-2.01
2390.000	Peak	77.16	-7.89	69.27	74.00	-4.73

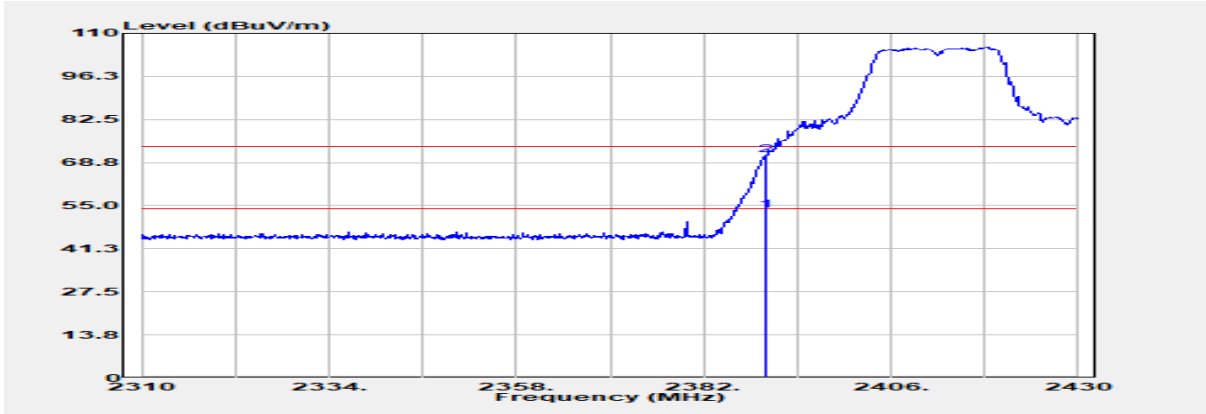
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 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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
2390.000	Average	61.39	-7.89	53.50	54.00	-0.50
2390.000	Peak	79.03	-7.89	71.14	74.00	-2.86

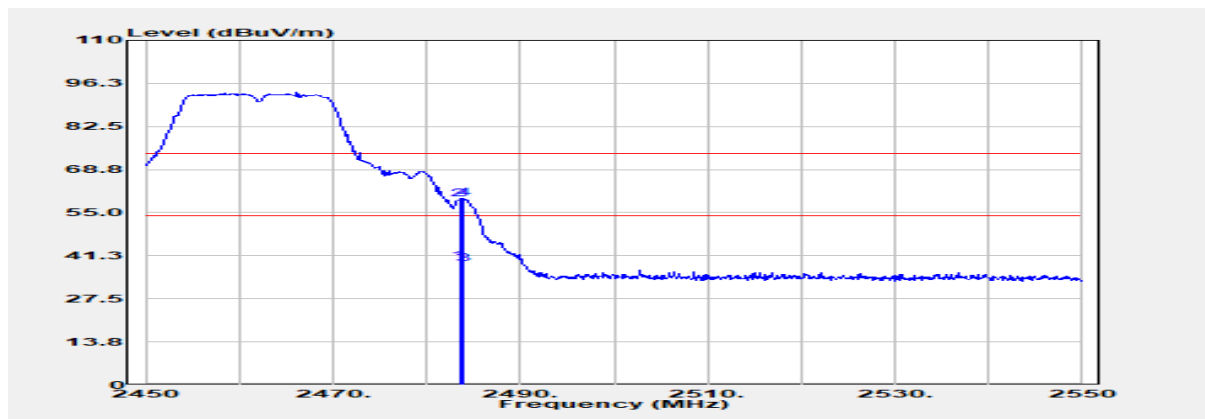
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 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.65	-8.15	39.49	54.00	-14.51
2483.500	Peak	67.55	-8.15	59.40	74.00	-14.60
2483.900	Average	46.81	-8.15	38.66	54.00	-15.34
2483.900	Peak	67.75	-8.15	59.60	74.00	-14.40

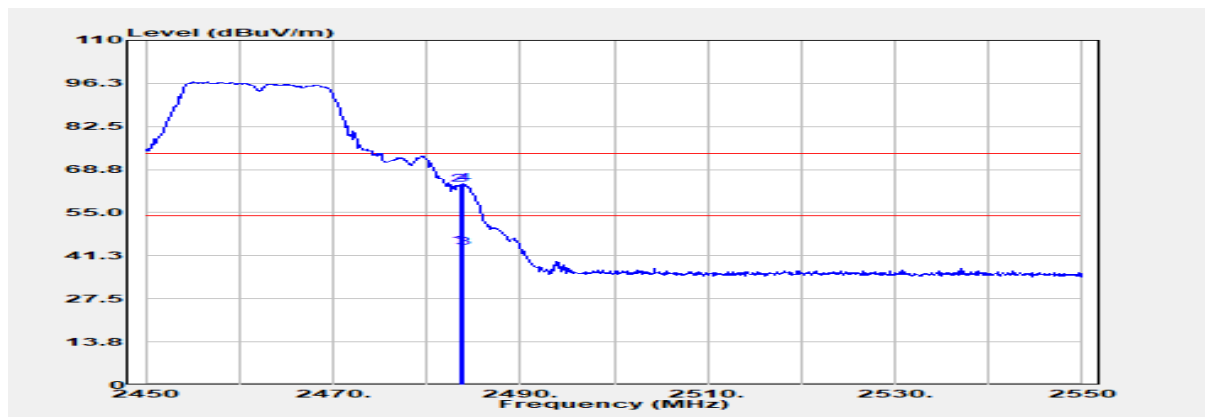
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	52.46	-8.15	44.31	54.00	-9.69
2483.500	Peak	72.24	-8.15	64.08	74.00	-9.92
2483.800	Average	52.11	-8.15	43.95	54.00	-10.05
2483.800	Peak	72.50	-8.15	64.34	74.00	-9.66

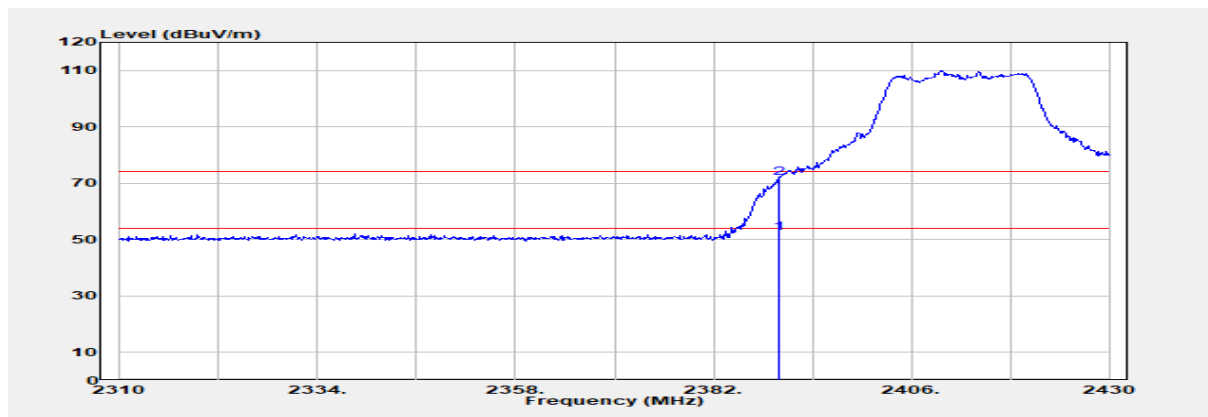
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Report Number :E2/2021/60090
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
2390.000	Average	60.22	-7.89	52.33	54.00	-1.67
2390.000	Peak	79.91	-7.89	72.03	74.00	-1.97

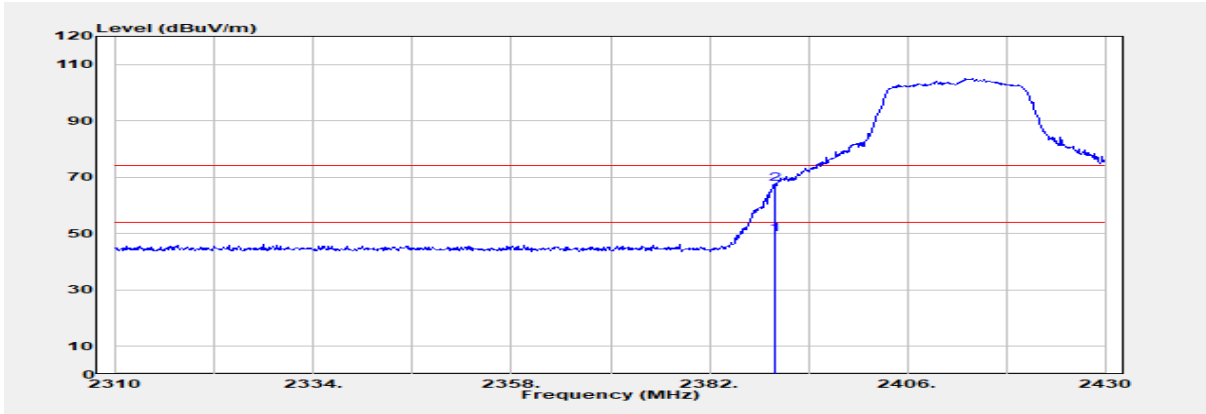
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Report Number :E2/2021/60090
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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
2390.000	Average	57.64	-7.89	49.75	54.00	-4.25
2390.000	Peak	75.52	-7.89	67.63	74.00	-6.37

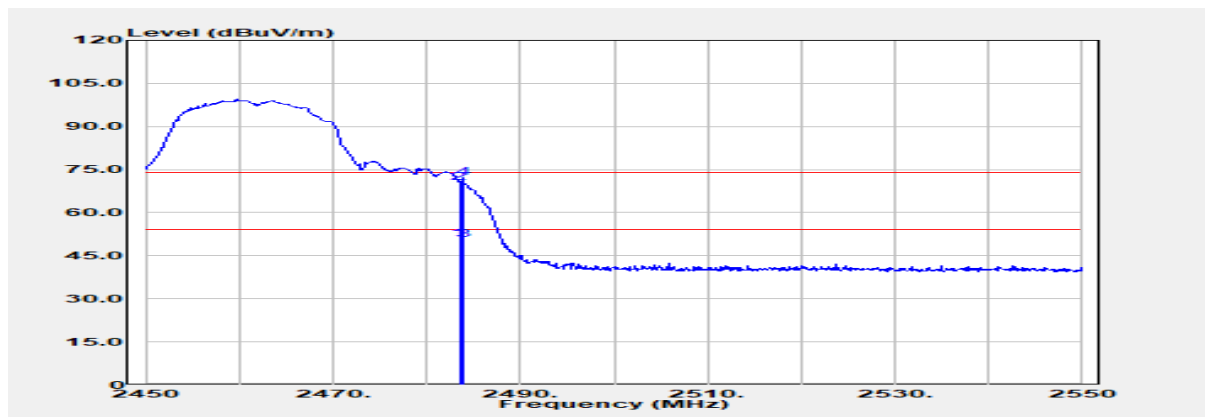
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Report Number :E2/2021/60090
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	59.00	-8.15	50.84	54.00	-3.16
2483.500	Peak	78.46	-8.15	70.31	74.00	-3.69
2483.900	Average	58.55	-8.15	50.40	54.00	-3.60
2483.900	Peak	80.22	-8.15	72.06	74.00	-1.94

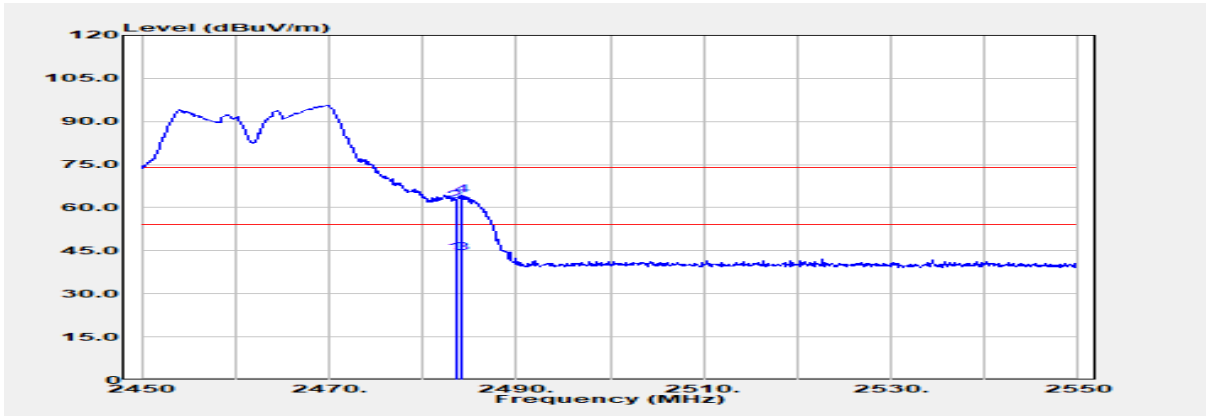
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Report Number :E2/2021/60090
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :22.6/62
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	52.44	-8.15	44.29	54.00	-9.71
2483.500	Peak	70.53	-8.15	62.38	74.00	-11.62
2484.200	Average	52.37	-8.15	44.21	54.00	-9.79
2484.200	Peak	72.58	-8.15	64.42	74.00	-9.58

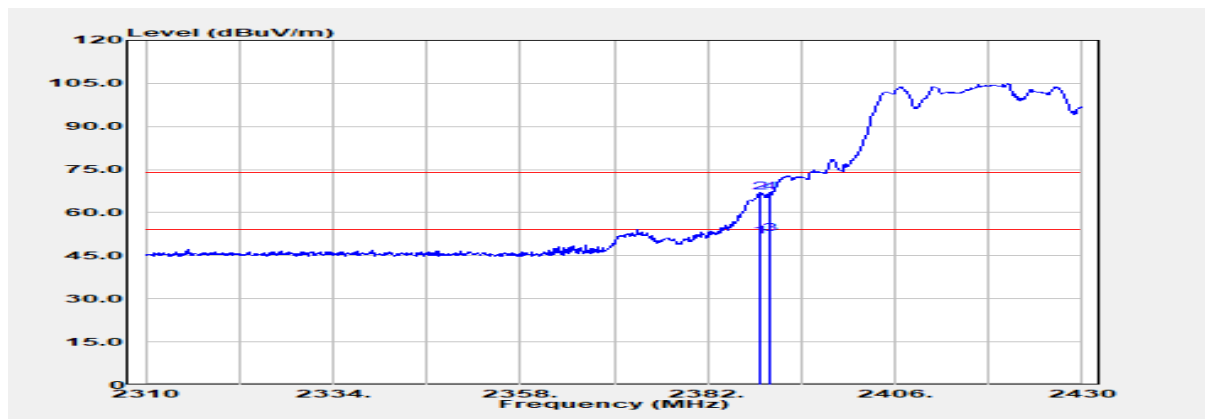
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Report Number :E2/2021/60090
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
2388.720	Average	59.63	-7.85	51.78	54.00	-2.22
2388.720	Peak	74.79	-7.85	66.94	74.00	-7.06
2390.000	Average	60.49	-7.89	52.60	54.00	-1.40
2390.000	Peak	74.98	-7.89	67.09	74.00	-6.91

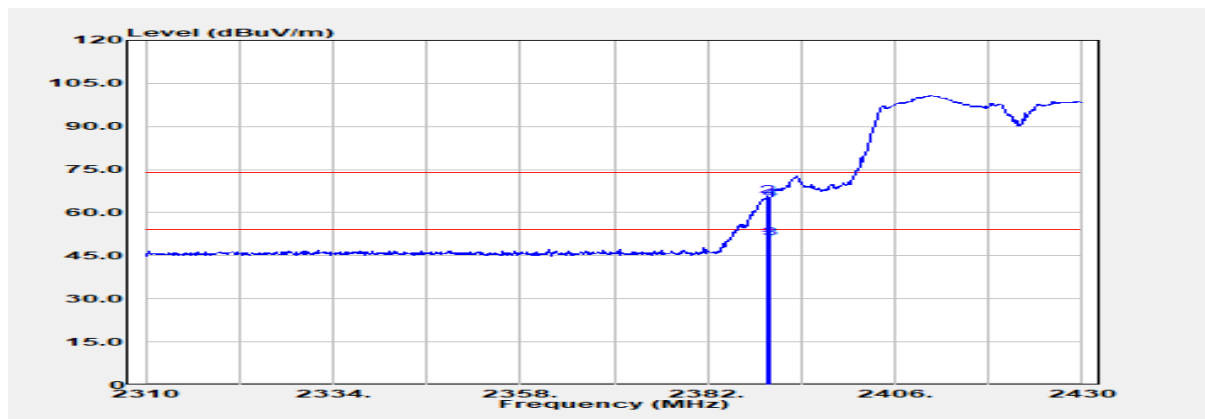
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Report Number :E2/2021/60090
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.800	Average	58.46	-7.88	50.58	54.00	-3.42
2389.800	Peak	73.62	-7.88	65.74	74.00	-8.26
2390.000	Average	59.04	-7.89	51.15	54.00	-2.85
2390.000	Peak	72.67	-7.89	64.78	74.00	-9.22

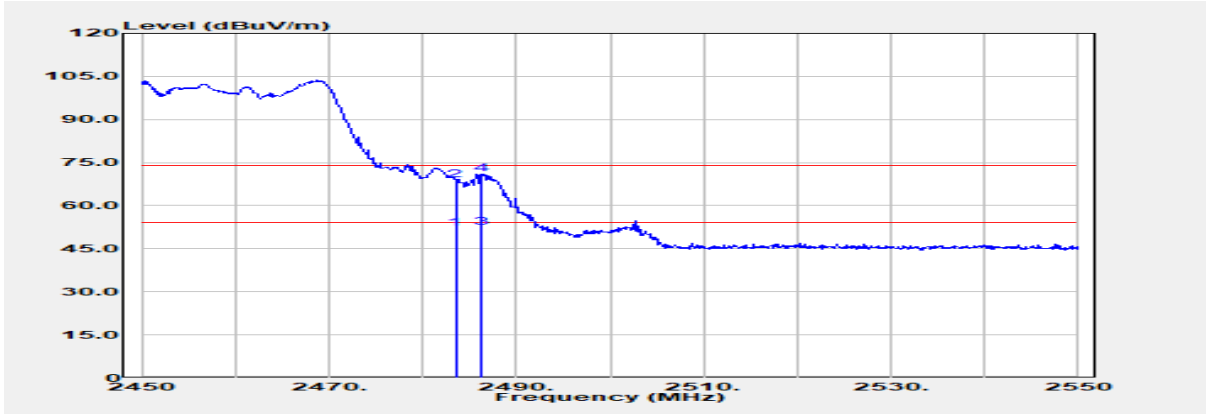
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Report Number :E2/2021/60090
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :22.6/62
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	60.06	-8.15	51.91	54.00	-2.09
2483.500	Peak	76.88	-8.15	68.72	74.00	-5.28
2486.200	Average	60.46	-8.16	52.30	54.00	-1.70
2486.200	Peak	79.26	-8.16	71.10	74.00	-2.90

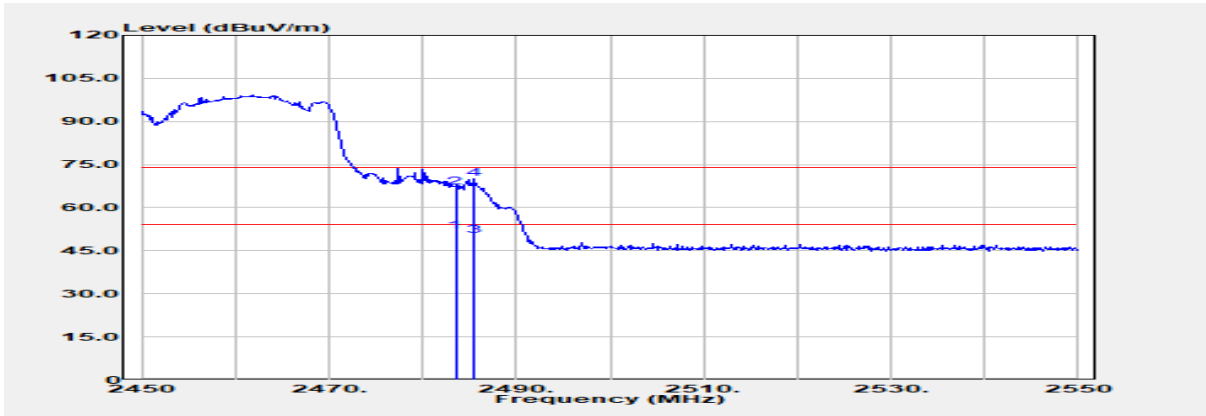
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Report Number :E2/2021/60090
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	59.86	-8.15	51.71	54.00	-2.29
2483.500	Peak	75.15	-8.15	66.99	74.00	-7.01
2485.500	Average	58.42	-8.16	50.27	54.00	-3.73
2485.500	Peak	78.12	-8.16	69.96	74.00	-4.04

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11.7.2 Spurious Emission:

Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-21
 Temp./Humi. :21.8/66
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
106.630	Peak	40.39	-20.76	19.63	43.50	-23.87
175.500	Peak	33.51	-17.56	15.95	43.50	-27.55
367.560	Peak	32.29	-14.53	17.77	46.00	-28.23
599.390	Peak	32.60	-8.89	23.72	46.00	-22.28
840.920	Peak	33.23	-6.36	26.87	46.00	-19.13
951.500	Peak	34.55	-5.50	29.05	46.00	-16.95

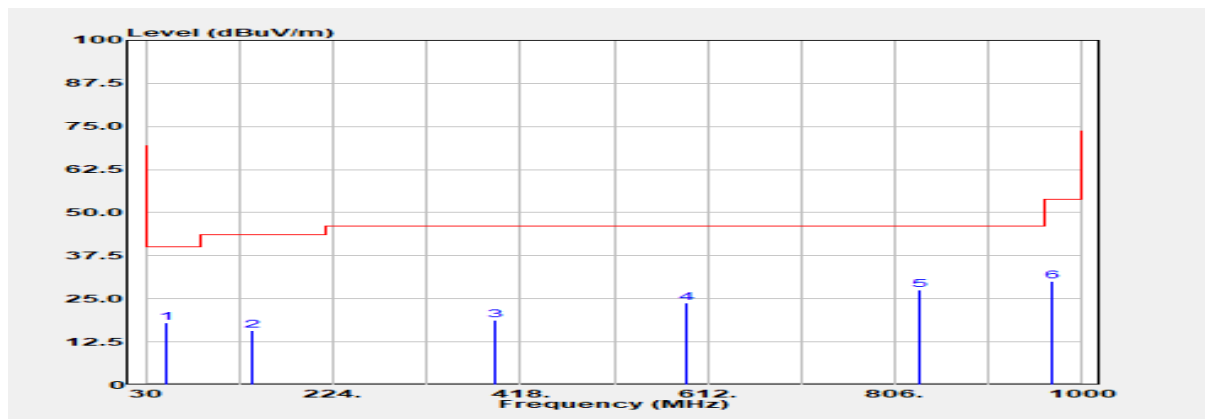
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-21
 Temp./Humi. :21.8/66
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.370	Peak	35.57	-17.62	17.96	40.00	-22.04
140.580	Peak	32.87	-17.00	15.87	43.50	-27.63
390.840	Peak	32.60	-13.89	18.71	46.00	-27.29
589.690	Peak	33.84	-10.07	23.77	46.00	-22.23
831.220	Peak	34.15	-6.54	27.61	46.00	-18.39
967.990	Peak	34.24	-4.22	30.02	54.00	-23.98

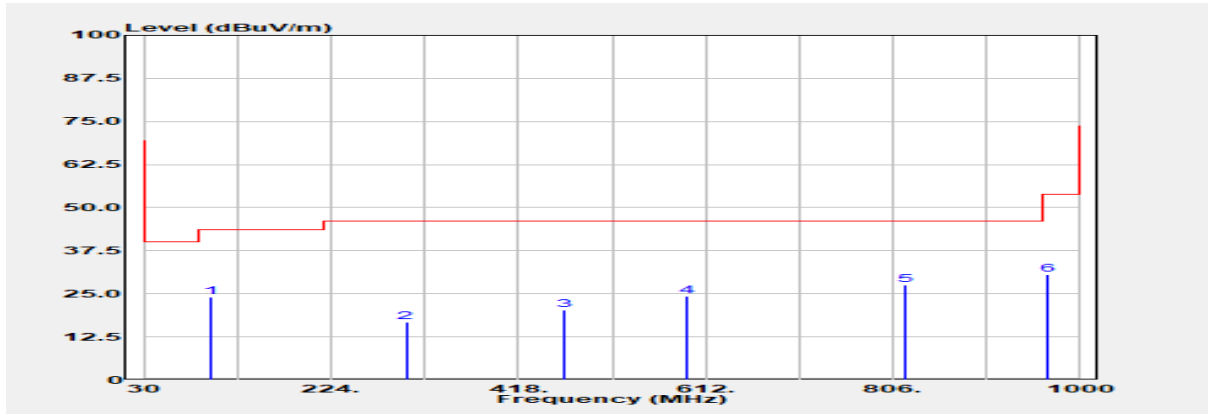
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Report Number :E2/2021/60090
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-21
Temp./Humi. :20.5/69
Antenna Pol. :Vertical
Engineer :Jack Tseng



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
98.870	Peak	46.46	-22.39	24.08	43.50	-19.42
301.600	Peak	32.91	-16.07	16.84	46.00	-29.16
465.530	Peak	32.21	-11.94	20.28	46.00	-25.72
593.570	Peak	33.57	-9.37	24.20	46.00	-21.80
818.610	Peak	34.26	-6.74	27.53	46.00	-18.47
967.020	Peak	35.02	-4.40	30.62	54.00	-23.38

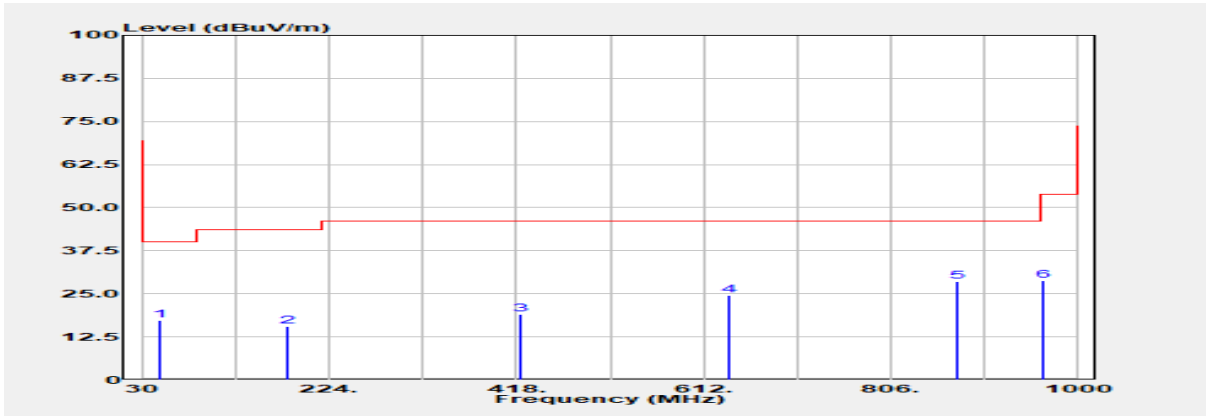
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Report Number :E2/2021/60090
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-21
Temp./Humi. :20.5/69
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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
48.430	Peak	34.96	-17.64	17.32	40.00	-22.68
180.350	Peak	33.40	-17.81	15.58	43.50	-27.92
422.850	Peak	32.02	-12.94	19.08	46.00	-26.92
638.190	Peak	32.79	-8.22	24.56	46.00	-21.44
873.900	Peak	34.82	-6.31	28.51	46.00	-17.49
963.140	Peak	33.71	-4.83	28.89	54.00	-25.11

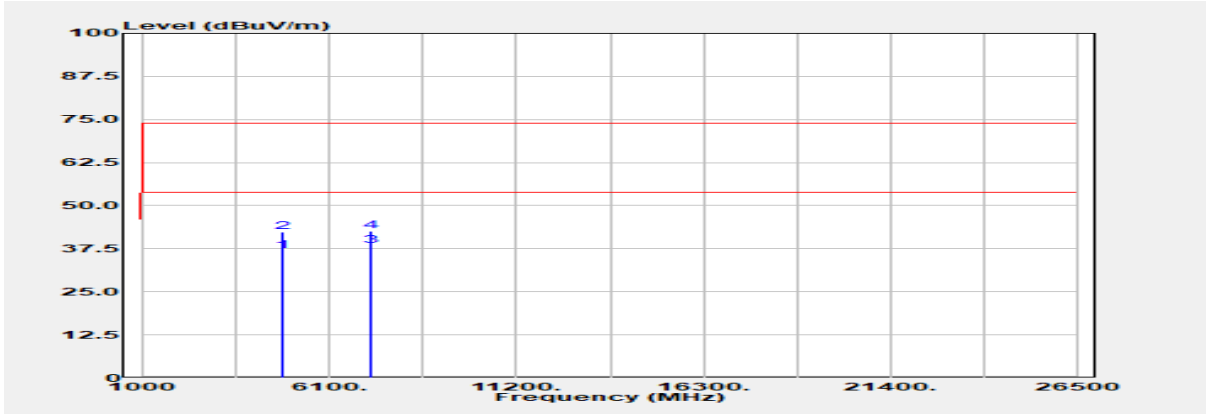
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Report Number :E2/2021/60090
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :TX CH LOW
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :23.5/62
Antenna Pol. :Vertical
Engineer :Jack Tseng



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	Average	40.12	-3.18	36.94	54.00	-17.06
4824.000	Peak	45.45	-3.18	42.27	74.00	-31.73
7236.000	Average	35.88	2.41	38.29	54.00	-15.71
7236.000	Peak	40.25	2.41	42.66	74.00	-31.34

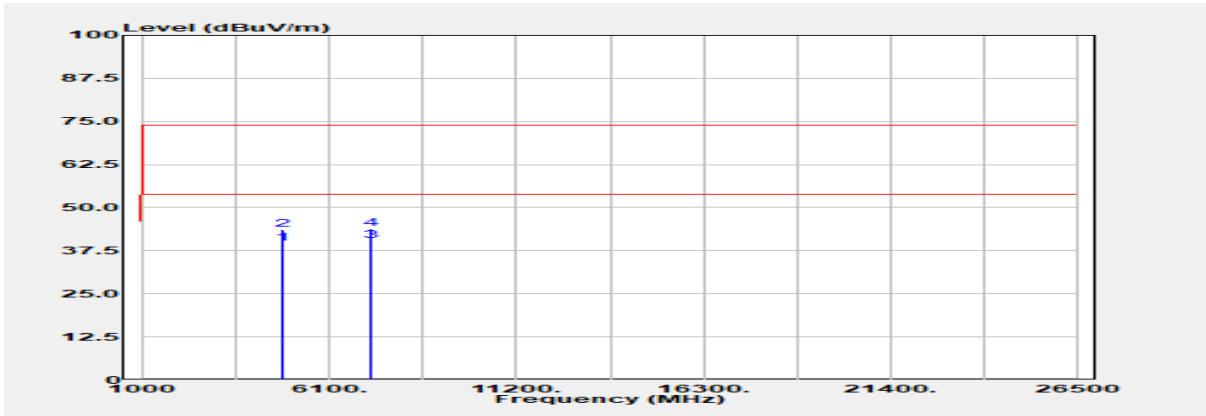
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Report Number :E2/2021/60090
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :TX CH LOW
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :23.5/62
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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	Average	42.70	-3.18	39.52	54.00	-14.48
4824.000	Peak	46.67	-3.18	43.49	74.00	-30.51
7236.000	Average	37.88	2.41	40.29	54.00	-13.71
7236.000	Peak	41.35	2.41	43.77	74.00	-30.23

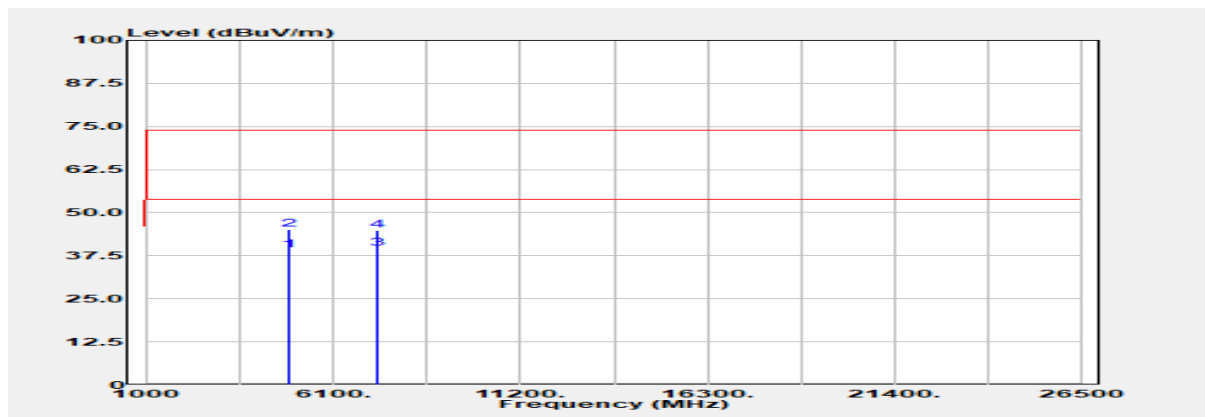
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Report Number :E2/2021/60090
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :23.5/62
Antenna Pol. :Vertical
Engineer :Jack Tseng



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	Average	42.08	-3.05	39.03	54.00	-14.97
4874.000	Peak	48.09	-3.05	45.04	74.00	-28.96
7311.000	Average	35.66	3.91	39.57	54.00	-14.43
7311.000	Peak	41.04	3.91	44.94	74.00	-29.06

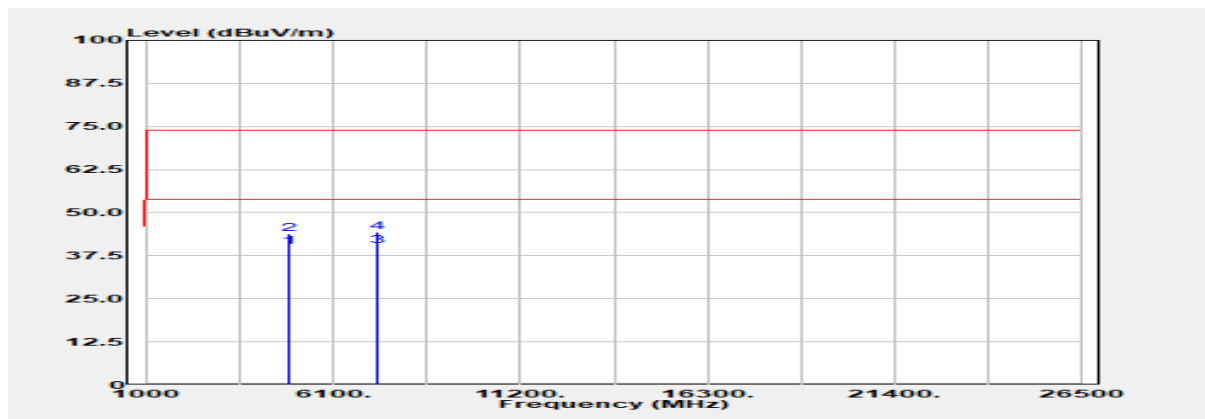
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Report Number :E2/2021/60090
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :23.5/62
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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	Average	43.17	-3.05	40.12	54.00	-13.88
4874.000	Peak	47.01	-3.05	43.95	74.00	-30.05
7311.000	Average	36.55	3.91	40.46	54.00	-13.54
7311.000	Peak	40.56	3.91	44.46	74.00	-29.54

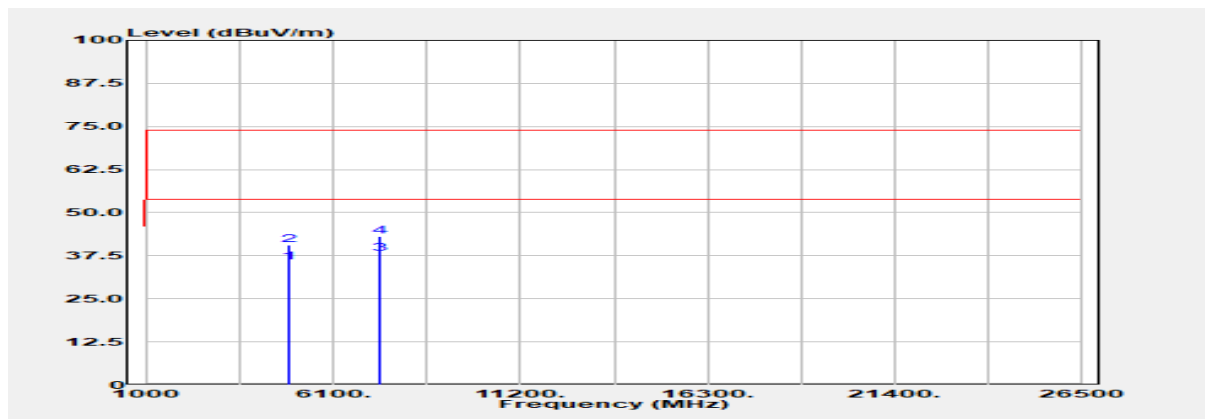
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Report Number :E2/2021/60090
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	38.92	-3.21	35.71	54.00	-18.29
4924.000	Peak	43.71	-3.21	40.50	74.00	-33.50
7386.000	Average	34.83	3.24	38.07	54.00	-15.93
7386.000	Peak	39.91	3.24	43.15	74.00	-30.85

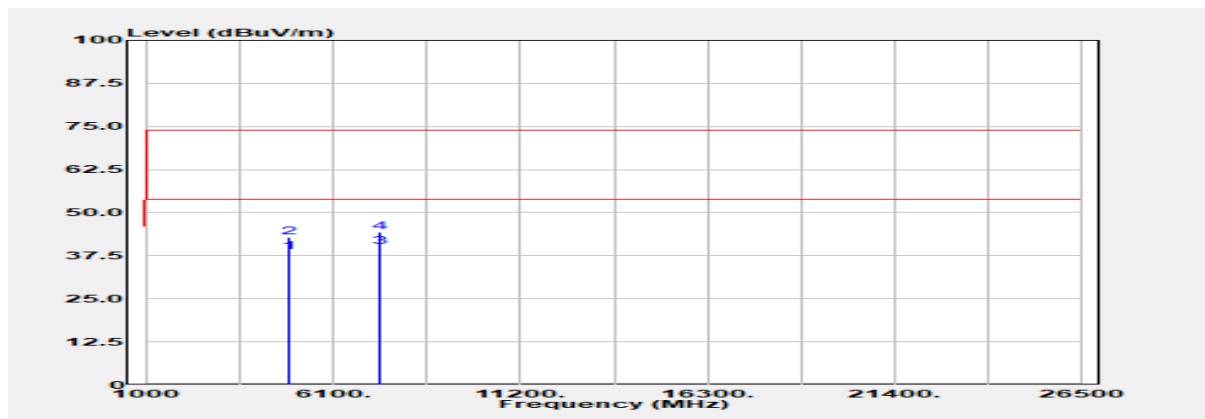
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Report Number :E2/2021/60090
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	41.85	-3.21	38.65	54.00	-15.35
4924.000	Peak	46.15	-3.21	42.94	74.00	-31.06
7386.000	Average	36.93	3.24	40.17	54.00	-13.83
7386.000	Peak	41.22	3.24	44.46	74.00	-29.54

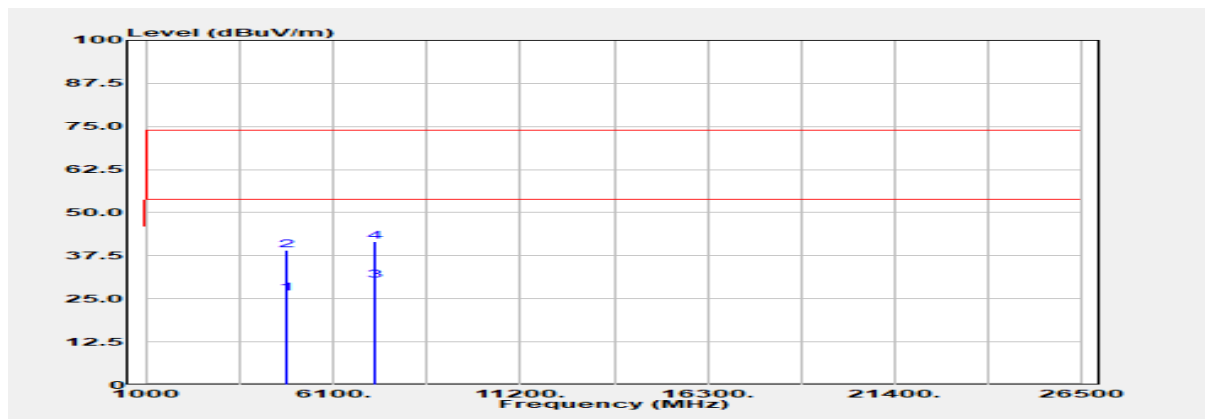
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	29.80	-3.18	26.62	54.00	-27.38
4824.000	Peak	42.25	-3.18	39.07	74.00	-34.93
7236.000	Average	27.93	2.41	30.34	54.00	-23.66
7236.000	Peak	39.14	2.41	41.56	74.00	-32.44

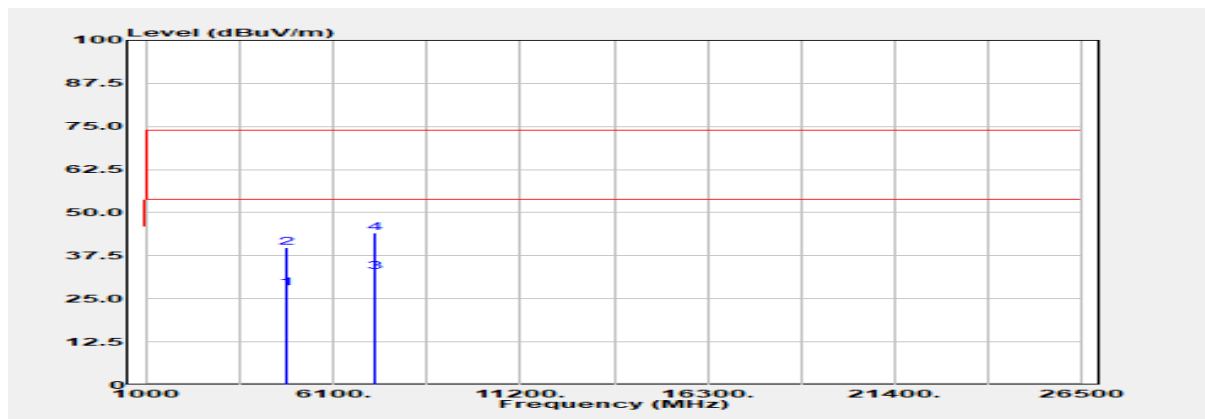
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	31.19	-3.18	28.01	54.00	-25.99
4824.000	Peak	42.96	-3.18	39.78	74.00	-34.22
7236.000	Average	30.32	2.41	32.73	54.00	-21.27
7236.000	Peak	41.59	2.41	44.00	74.00	-30.00

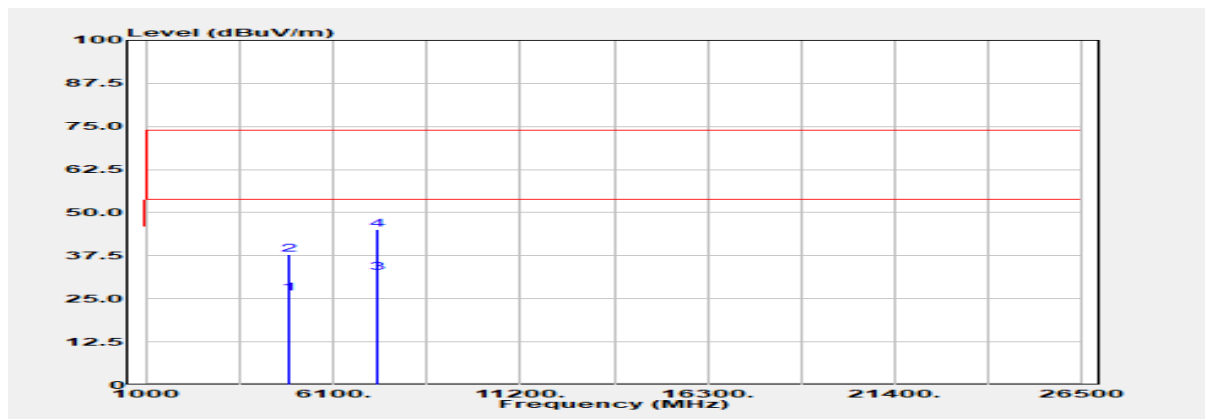
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	29.62	-3.05	26.57	54.00	-27.43
4874.000	Peak	40.90	-3.05	37.85	74.00	-36.15
7311.000	Average	28.79	3.91	32.70	54.00	-21.30
7311.000	Peak	41.31	3.91	45.22	74.00	-28.78

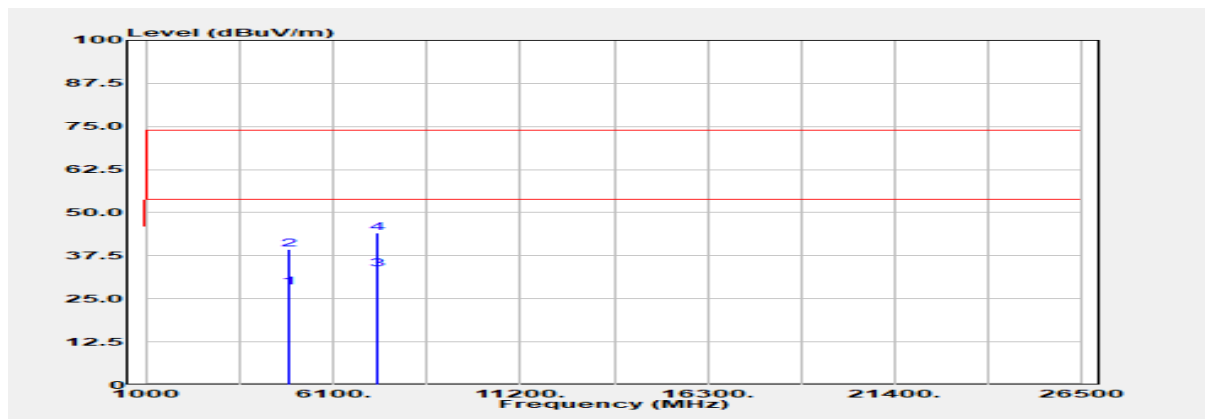
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	31.28	-3.05	28.23	54.00	-25.77
4874.000	Peak	42.52	-3.05	39.47	74.00	-34.53
7311.000	Average	29.63	3.91	33.54	54.00	-20.46
7311.000	Peak	40.10	3.91	44.01	74.00	-29.99

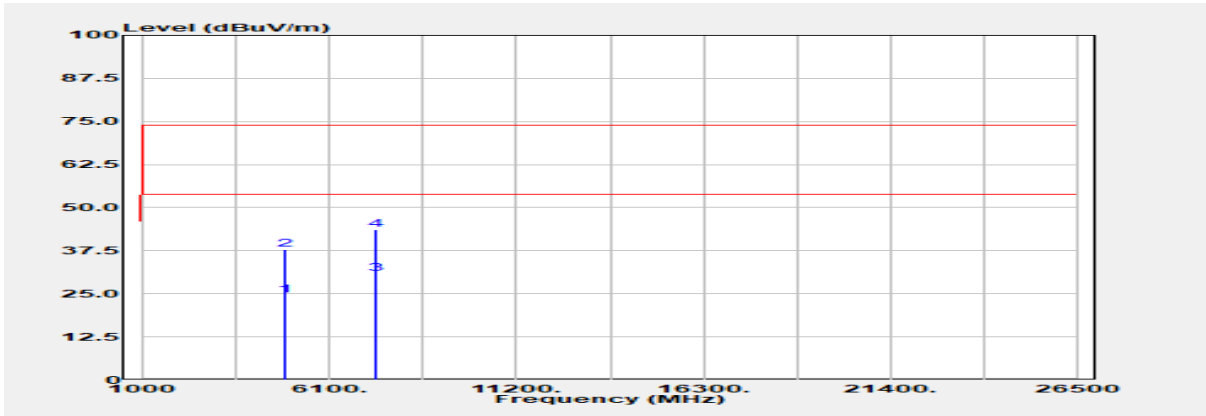
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	27.82	-3.21	24.62	54.00	-29.38
4924.000	Peak	41.00	-3.21	37.79	74.00	-36.21
7386.000	Average	27.56	3.24	30.80	54.00	-23.20
7386.000	Peak	40.31	3.24	43.55	74.00	-30.45

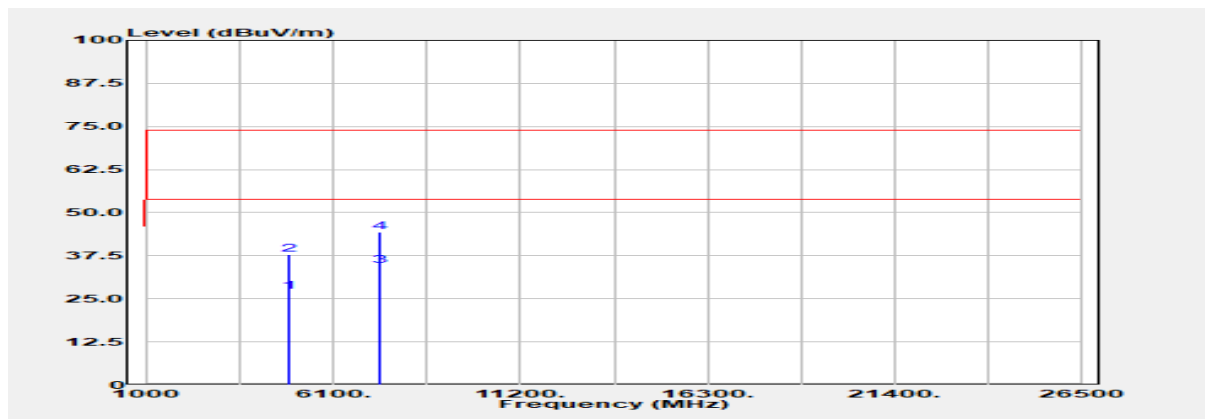
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Report Number :E2/2021/60090
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	30.27	-3.21	27.06	54.00	-26.94
4924.000	Peak	40.96	-3.21	37.75	74.00	-36.25
7386.000	Average	31.37	3.24	34.61	54.00	-19.39
7386.000	Peak	41.10	3.24	44.34	74.00	-29.66

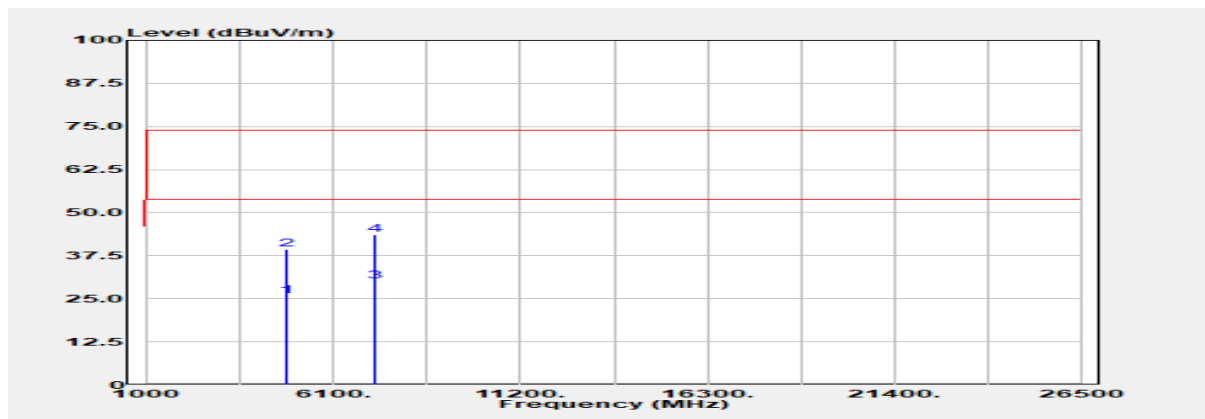
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Report Number :E2/2021/60090
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	28.90	-3.18	25.73	54.00	-28.27
4824.000	Peak	42.42	-3.18	39.25	74.00	-34.75
7236.000	Average	27.67	2.41	30.08	54.00	-23.92
7236.000	Peak	41.23	2.41	43.65	74.00	-30.35

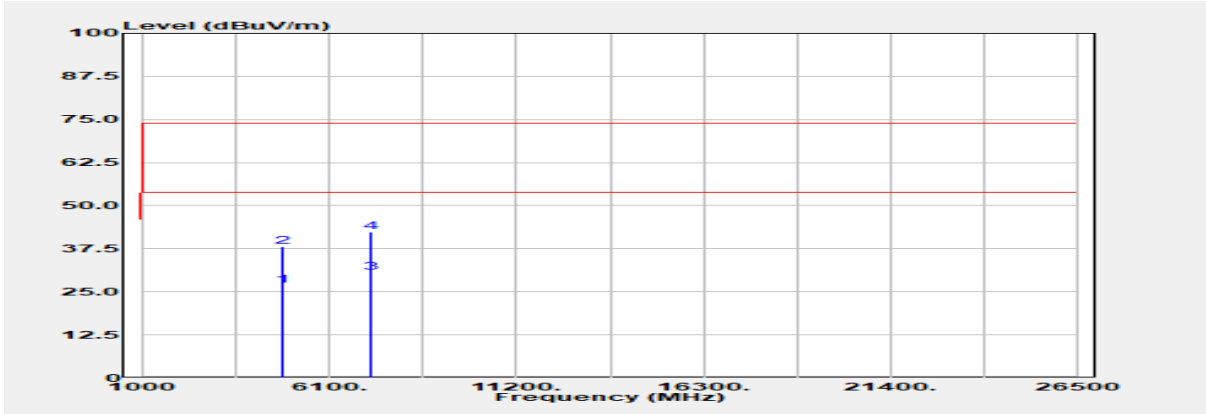
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Report Number :E2/2021/60090
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	29.88	-3.18	26.71	54.00	-27.29
4824.000	Peak	41.35	-3.18	38.17	74.00	-35.83
7236.000	Average	28.07	2.41	30.48	54.00	-23.52
7236.000	Peak	39.95	2.41	42.36	74.00	-31.64

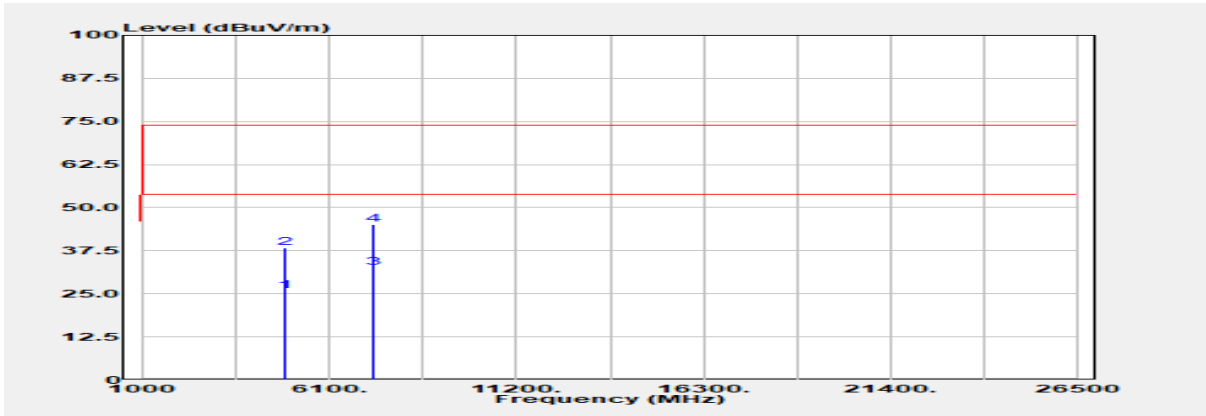
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Report Number :E2/2021/60090
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :23.5/62
Antenna Pol. :Vertical
Engineer :Jack Tseng



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	Average	28.82	-3.05	25.77	54.00	-28.23
4874.000	Peak	41.46	-3.05	38.41	74.00	-35.59
7311.000	Average	28.61	3.91	32.52	54.00	-21.48
7311.000	Peak	41.09	3.91	45.00	74.00	-29.00

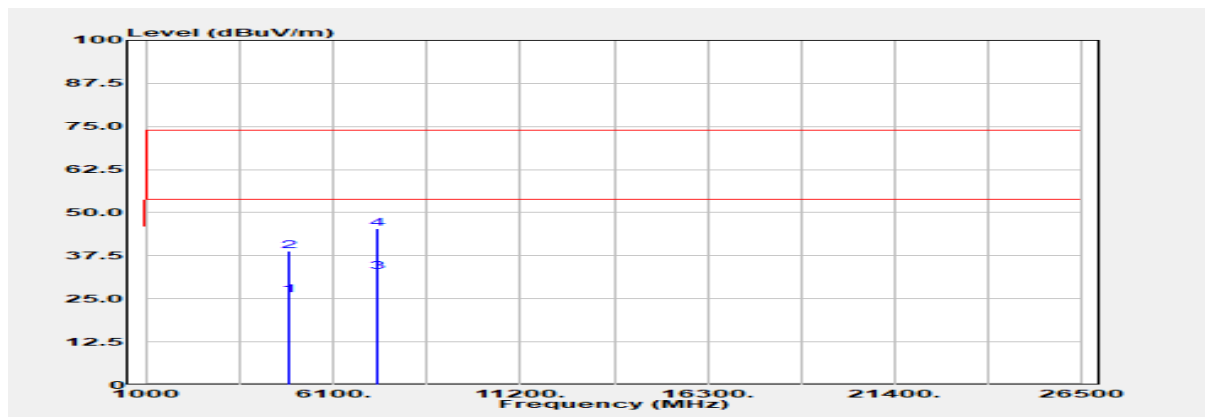
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Report Number :E2/2021/60090
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	29.15	-3.05	26.10	54.00	-27.90
4874.000	Peak	41.79	-3.05	38.74	74.00	-35.26
7311.000	Average	29.01	3.91	32.92	54.00	-21.08
7311.000	Peak	41.45	3.91	45.36	74.00	-28.64

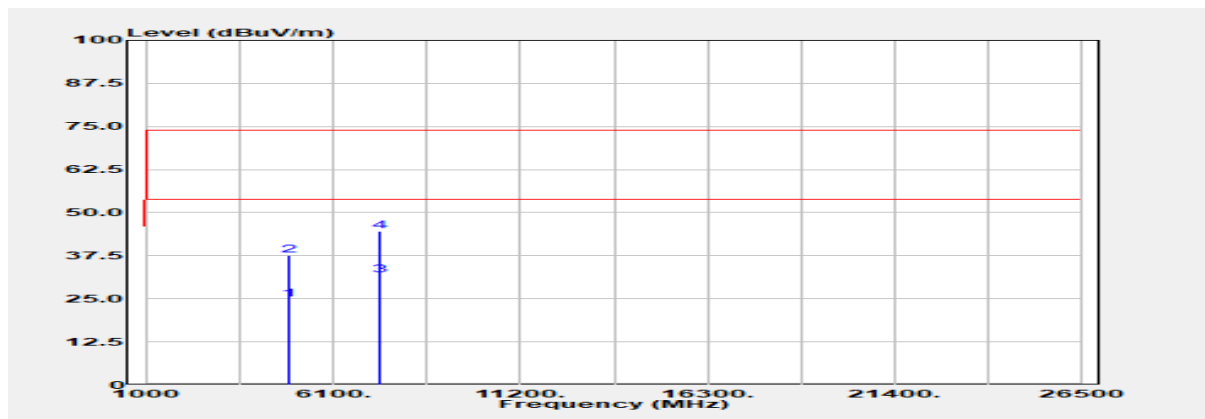
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Report Number :E2/2021/60090
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	27.90	-3.21	24.69	54.00	-29.31
4924.000	Peak	40.76	-3.21	37.55	74.00	-36.45
7386.000	Average	28.67	3.24	31.91	54.00	-22.09
7386.000	Peak	41.40	3.24	44.63	74.00	-29.37

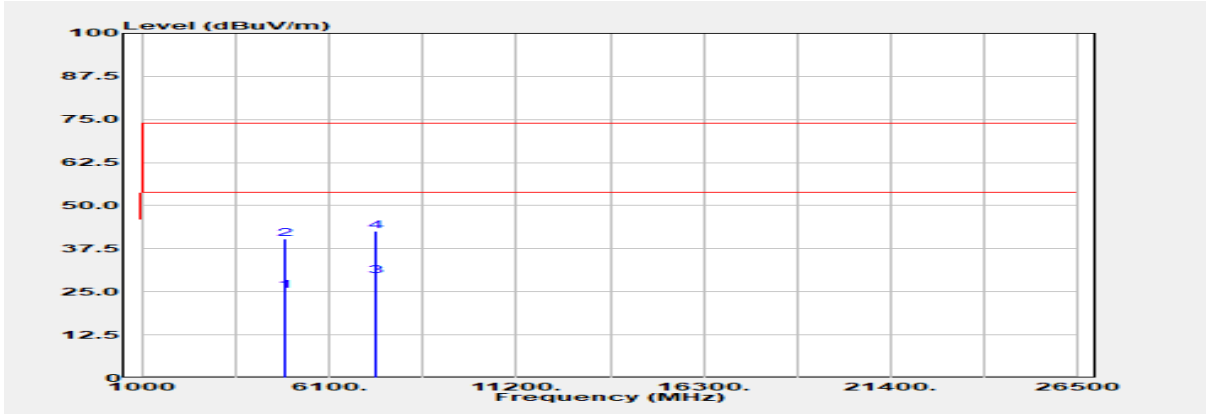
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Report Number :E2/2021/60090
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	28.43	-3.21	25.23	54.00	-28.77
4924.000	Peak	43.48	-3.21	40.27	74.00	-33.73
7386.000	Average	26.27	3.24	29.51	54.00	-24.49
7386.000	Peak	39.37	3.24	42.61	74.00	-31.39

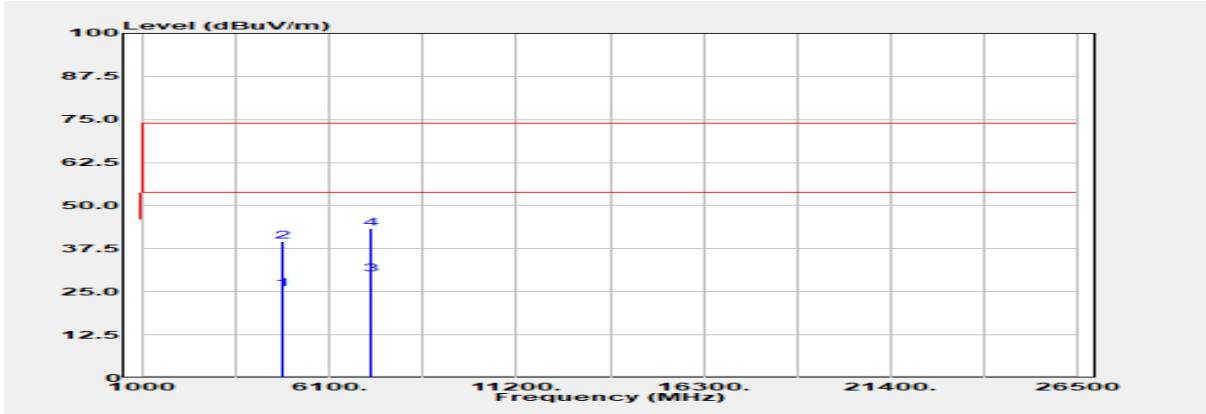
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Report Number :E2/2021/60090
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	28.83	-3.07	25.76	54.00	-28.24
4844.000	Peak	42.59	-3.07	39.52	74.00	-34.48
7266.000	Average	26.96	3.10	30.06	54.00	-23.94
7266.000	Peak	40.30	3.10	43.39	74.00	-30.61

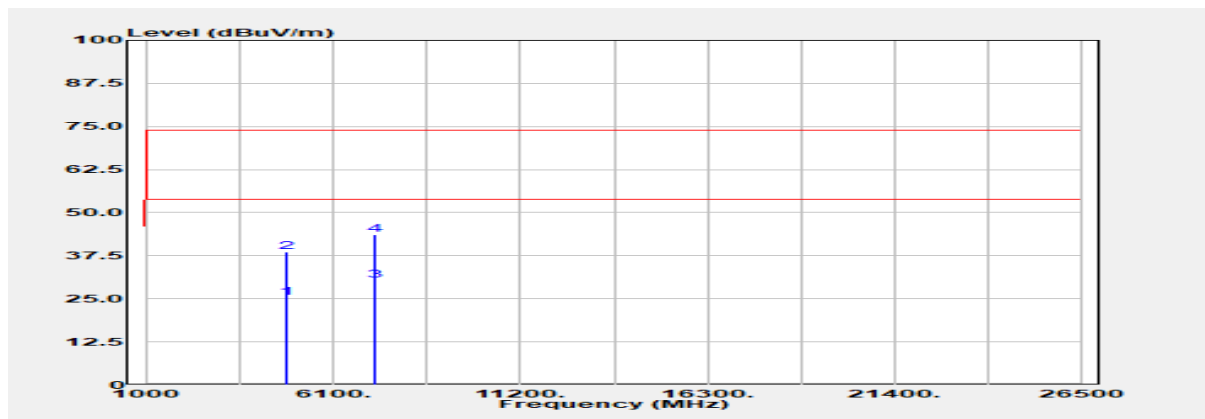
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Report Number :E2/2021/60090
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :TX CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	28.34	-3.07	25.27	54.00	-28.73
4844.000	Peak	41.60	-3.07	38.53	74.00	-35.47
7266.000	Average	27.34	3.10	30.44	54.00	-23.56
7266.000	Peak	40.60	3.10	43.70	74.00	-30.30

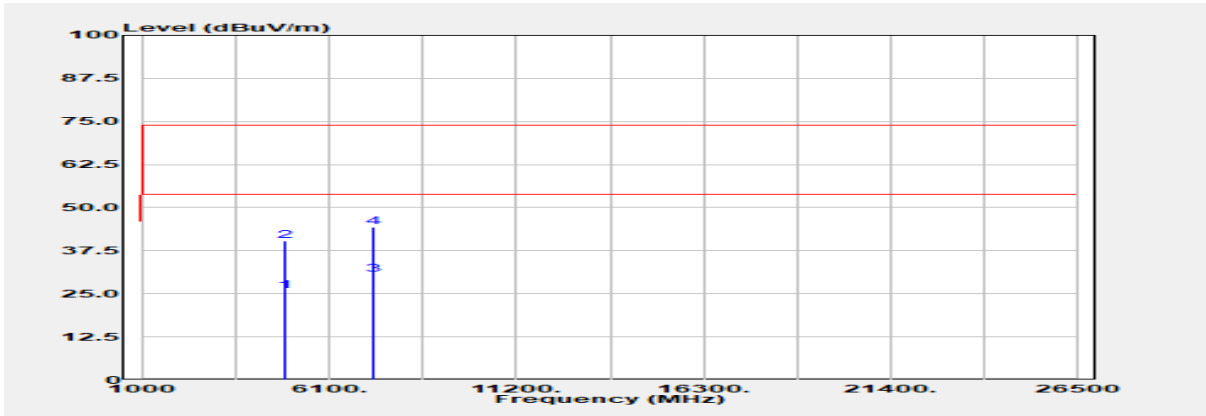
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Report Number :E2/2021/60090
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	28.81	-3.05	25.76	54.00	-28.24
4874.000	Peak	43.44	-3.05	40.39	74.00	-33.61
7311.000	Average	26.76	3.91	30.67	54.00	-23.33
7311.000	Peak	40.55	3.91	44.46	74.00	-29.54

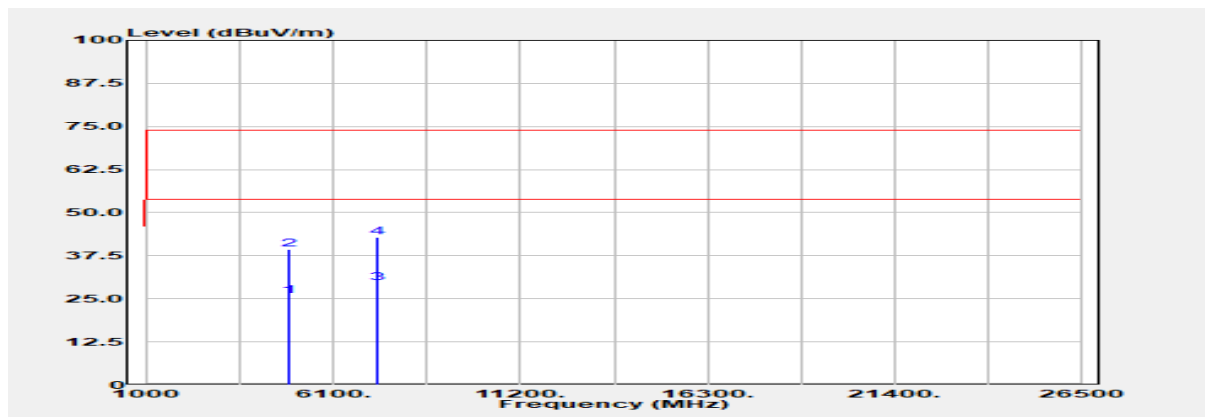
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Report Number :E2/2021/60090
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-16
Temp./Humi. :23.5/62
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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	Average	28.78	-3.05	25.73	54.00	-28.27
4874.000	Peak	42.40	-3.05	39.35	74.00	-34.65
7311.000	Average	25.78	3.91	29.69	54.00	-24.31
7311.000	Peak	39.02	3.91	42.93	74.00	-31.07

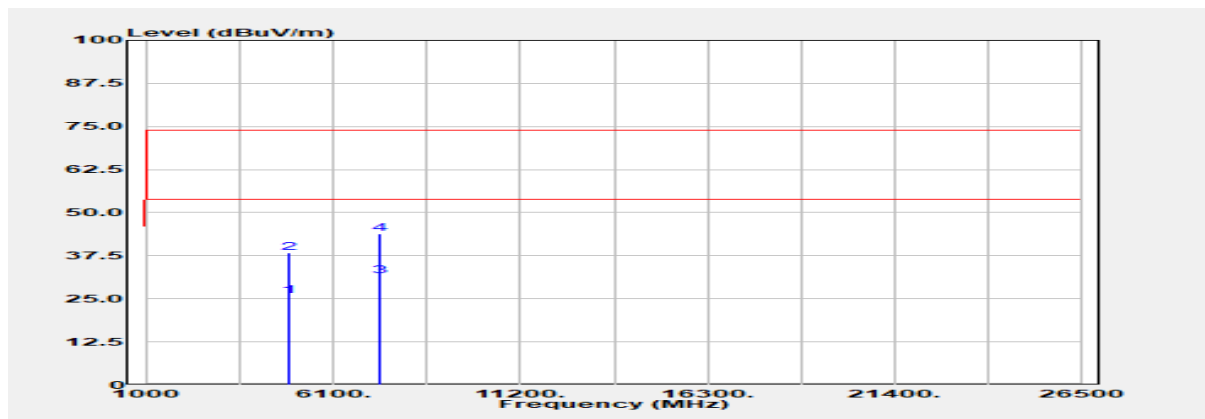
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Report Number :E2/2021/60090
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



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	Average	28.75	-3.03	25.72	54.00	-28.28
4904.000	Peak	41.33	-3.03	38.30	74.00	-35.70
7356.000	Average	27.86	3.74	31.60	54.00	-22.40
7356.000	Peak	40.10	3.74	43.84	74.00	-30.16

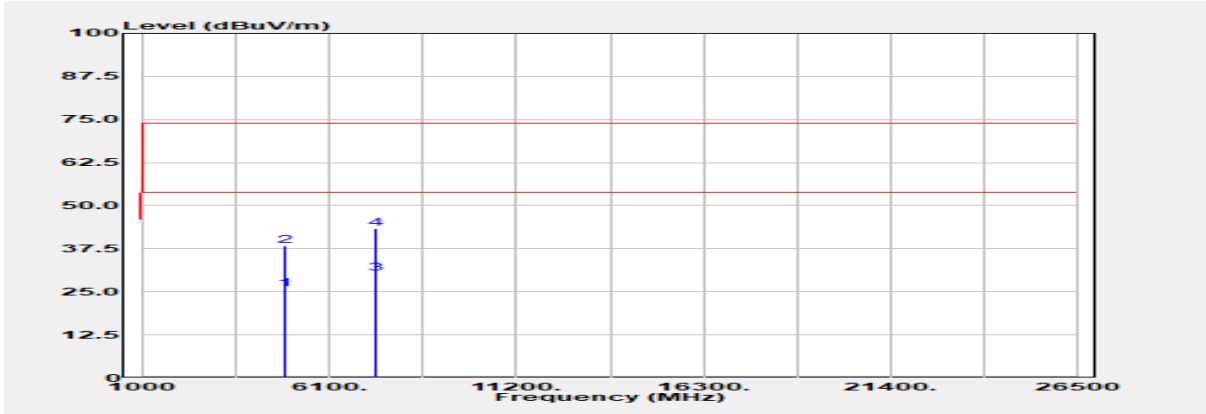
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Report Number :E2/2021/60090
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :TX CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-16
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



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	Average	28.86	-3.03	25.83	54.00	-28.17
4904.000	Peak	41.30	-3.03	38.27	74.00	-35.73
7356.000	Average	26.67	3.74	30.41	54.00	-23.59
7356.000	Peak	39.74	3.74	43.48	74.00	-30.52

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

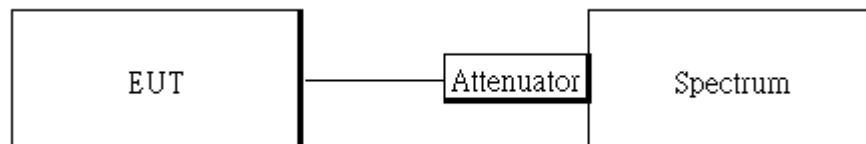
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/18/2021	06/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N/A	N/A

12.3 Test Set-up



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12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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12.5 As per FCC KDB 662911 D01

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = \frac{1}{20} 10G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

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12.6 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-5.125	-5.13	8.00	PASS
2437	-5.774	-5.77	8.00	PASS
2462	-4.17	-4.17	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-10.02	-10.02	8.00	PASS
2437	-8.63	-8.63	8.00	PASS
2462	-10.16	-10.16	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.93	-7.45	-4.67	8.00	PASS
2437	-7.9	-7.6	-4.74	8.00	PASS
2462	-8.29	-8.26	-5.26	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-11.2	-10.6	-7.85	8.00	PASS
2437	-11	-11.1	-8.04	8.00	PASS
2452	-12.7	-12.3	-9.51	8.00	PASS

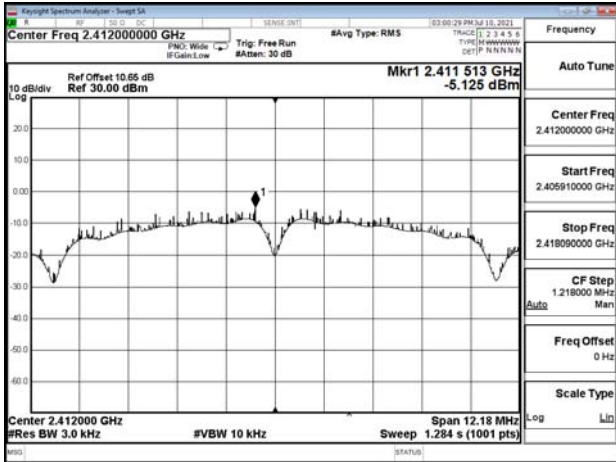
Note: Offset 10.65dB for 2.4G 802.11b/g/n_20/n_40

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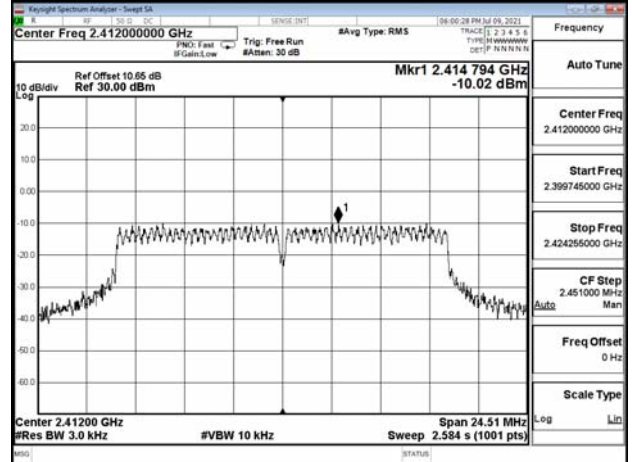
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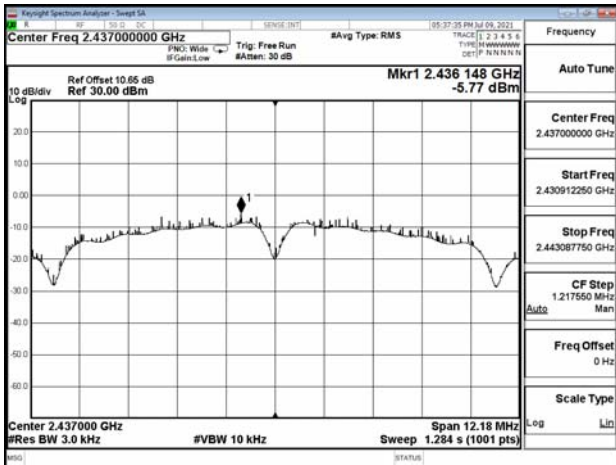
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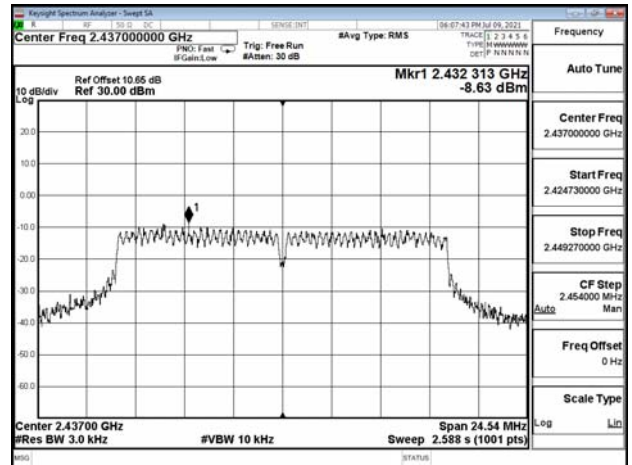
802.11g_20MHz_Chain0_2412MHz



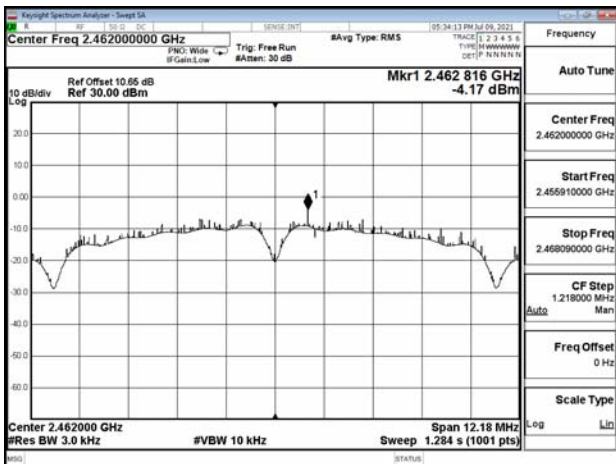
802.11b_20MHz_Chain1_2437MHz



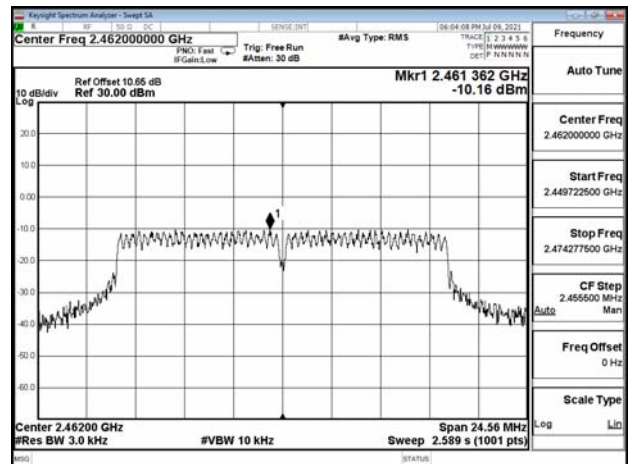
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802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain0_2462MHz

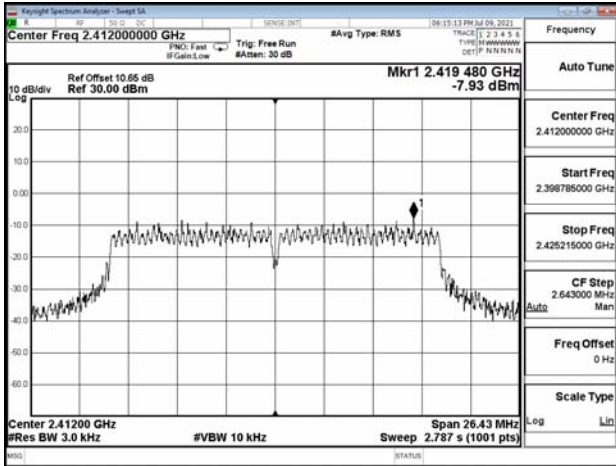


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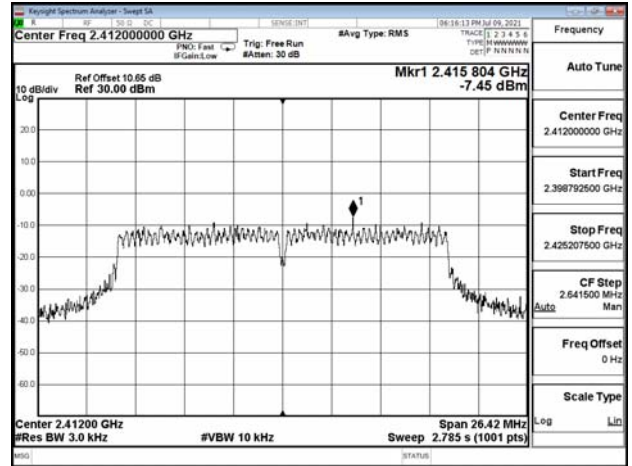
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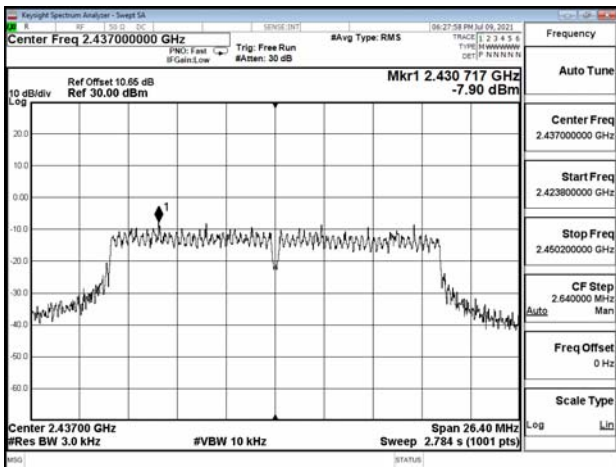
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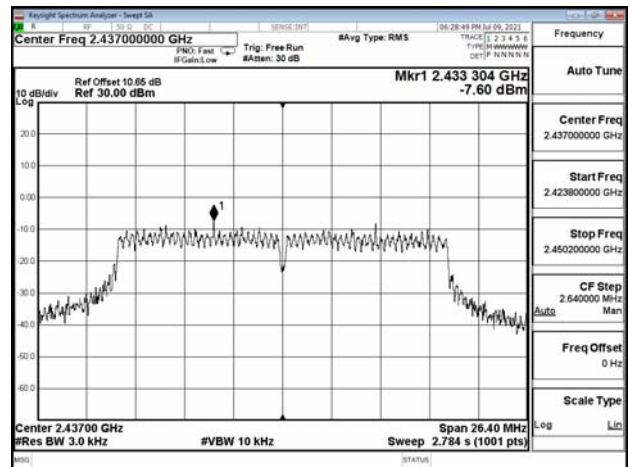
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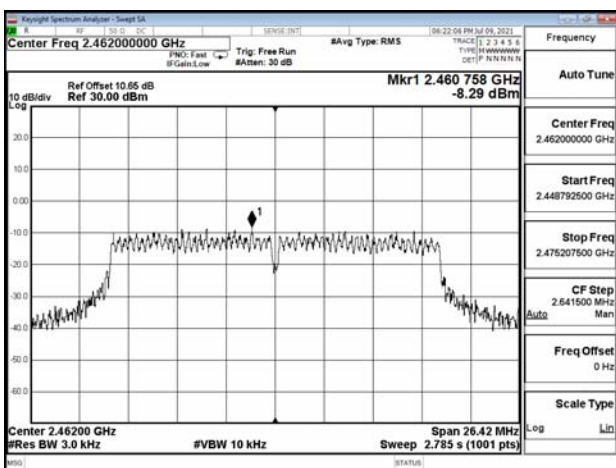
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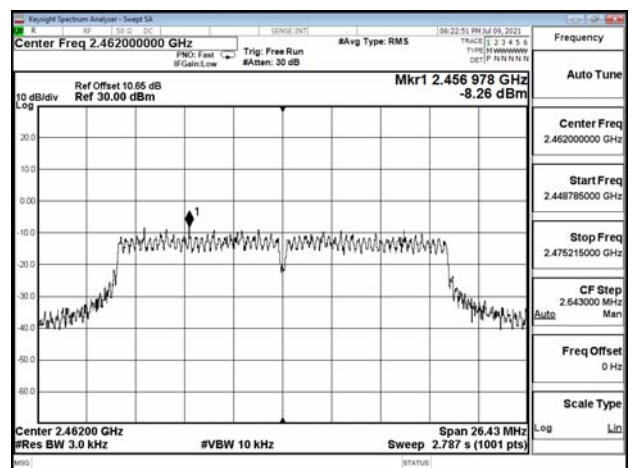
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



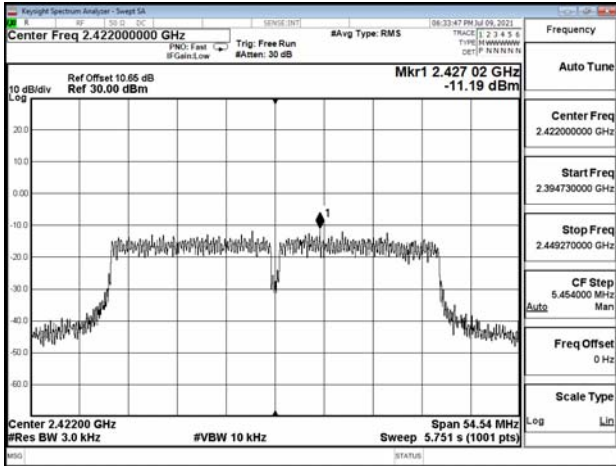
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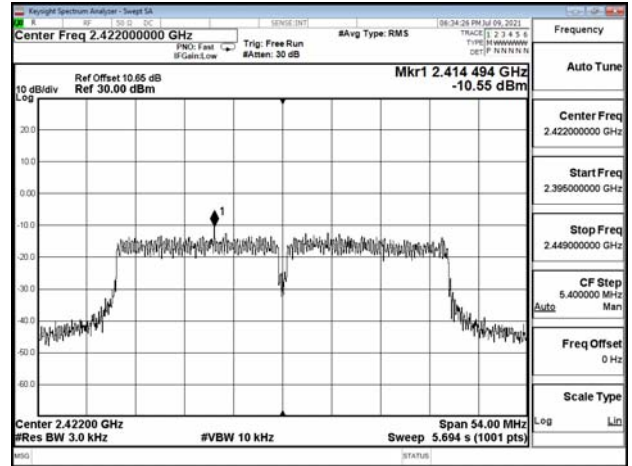
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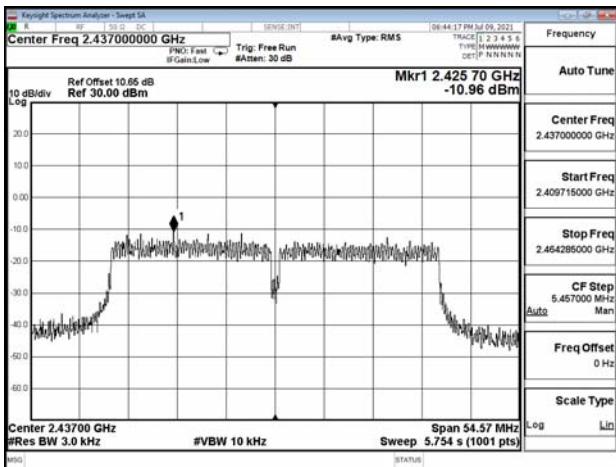
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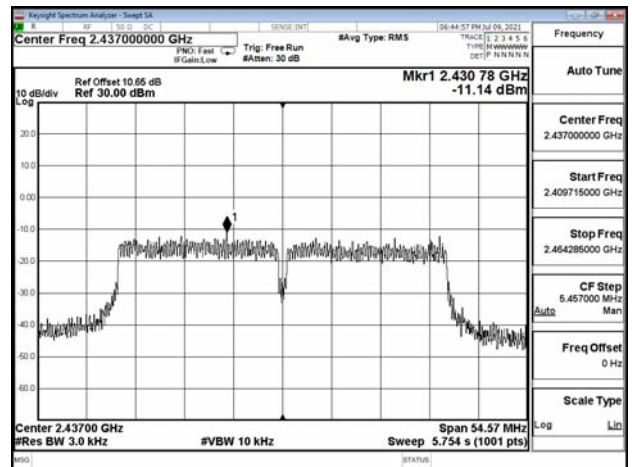
802.11n_40MHz_Chain1_2422MHz



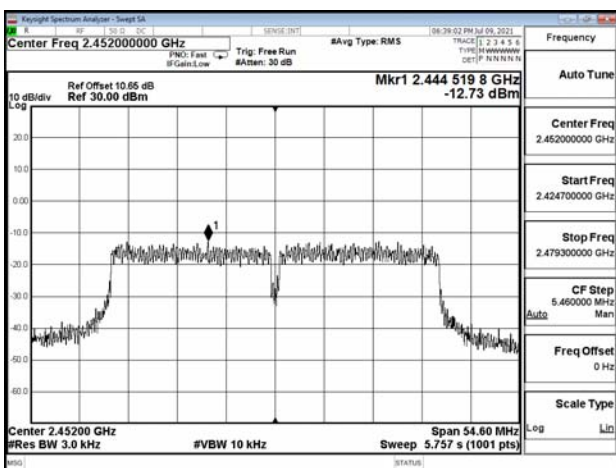
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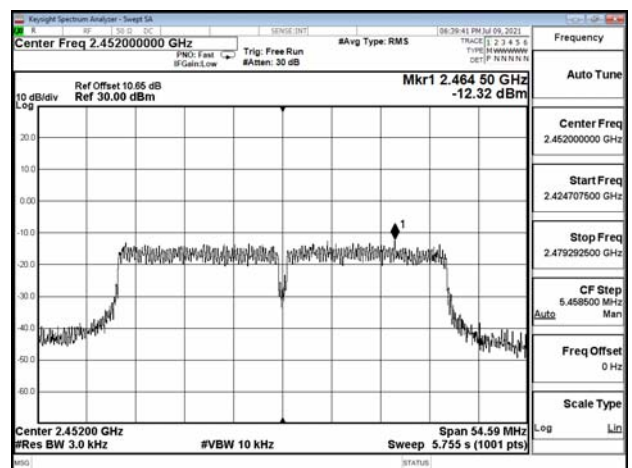
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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