

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

CLASS II & IV PC REPORT

OF

Acer Incorporated

Applicant: 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)

Product Name: 2TX 11ax (WiFi6) + BLE Combo Card

Brand Name: Acer

Model No.: MT7921

Model Difference: N/A

Report Number: E2/2020/C0072

FCC ID HLZMT7921

IC: 1754F-MT7921

FCC Rule Part: §15.247, Cat: DTS

IC RSS: RSS-247 issue 2 Feb 2017

Issue Date: March 3, 2021

Date of Test: December 29, 2020 - February 25, 2021

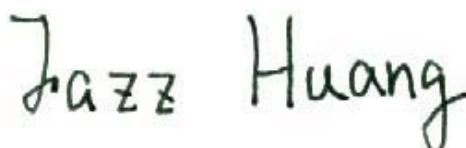
Date of EUT Received: December 29, 2020

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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By:



Jazz Huang / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/C0072	Rev.00	Original.	March 3, 2021	Revised By: Yuri Tsai

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	Notebook Computer
Brand Name:	
Model No. of FCC Host:	N20C12
Model No. of IC Host:	SF314-43
Model Difference:	For Marketing Purpose
Hardware Version:	N/A
Software Version:	N/A
EUT Series No.:	N8AB1WW00204900D073400
Model No. of BT/WLAN Module:	MT7921
Class II & Class IV Permissive change:	2TX 11ax (WiFi6) + BLE Combo Card INSTALLED IN Notebook Computer
Power Supply:	11.25Vdc from Rechargeable Li-polymer Battery or 19Vdc from AC/DC Adapter

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Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Peak) / EIRP (Worst Case)	Modulation Technology
b	2412-2472	13	20.97 dBm / 18.53 dBm	DSSS
g			20.67 dBm / 18.57 dBm	
n_HT20 / ac_VHT20 ax_HE20			VHT 20.94 dBm / HE18.78 dBm	
n_HT40 / ac_VHT40 ax_HE40	2422-2462	9	VHT 20.44 dBm / 18.80 dBm	
Modulation type:			CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac mode and VHT20/40 in 2.4GHz 1024QAM for OFDMA in 11ax HE mode	
Transistion 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 – 300.0Mbps 802.11 ac_20MHz: 6.5 – 144.4Mbps 802.11 ac_40MHz: 13.5 – 300.0Mbps 802.11 ax_HE20MHz: 8 – 286.8 Mbps 802.11 ax_HE40MHz: 16 – 573.6 Mbps	

1.2 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	Main	DC33002JF00	2.4GHz	-1.22	
		Aux		2.4GHz	-0.24	V

Note: Investigation has been done to determine the worst case scenario for the above antennas demonstrated with measurements in this report.

For MIMO mode, higher antenna gains are chosen to ensure higher directional gain is evaluated as below.

Ant. Type	Supplier	Part No.	Freq.(MHz)	Peak Gain (dBi)
PIFA	WNC	DC33002JF00	2.4GHz	2.31

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5, Amendment 1, March 2019

ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

ISED CAB identifier: TW3702

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Test (RF)

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

2.3.2 Radiated Emissions

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

2.4 Measurement Results Explanation Example

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

Radiated emission below 30MHz is measured in a 9m*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 Configuration of Tested System

Fig. 2-1 Radiated Emission

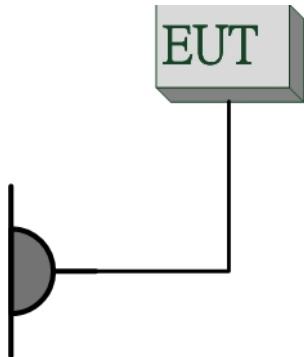


Fig. 2-2 Conducted (Antenna Port)



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

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

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

13 channels are provided for 802.11b/g/n/ac/ax 20M.

CHANNEL	FREQUENCY (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462
12	2467
13	2472

11 channels are provided for 802.11n/ac/ax 40M

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

4.2 The Worst Test Modes and Channel Details

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

The given UE is pre-scanned among below modes.

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

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

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4.3 Radiated Emission Test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
RADIATED EMISSION TEST (ABOVE 1 GHz)					
802.11b	1 to 13	1,6,11,12,13	DSSS	1	2TX

Note:

The field strength of radiation emission was measured as NB Plane for channel Low, Mid and High.

4.4 Antenna Port Conducted Mesurement:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1,6,11,12,13	DSSS	1	2TX
802.11g	1 to 13	1,6,11,12,13	OFDM	6	2TX
802.11ac 20M	1 to 13	1,6,11,12,13	OFDM	VHT0	MIMO
802.11ac 40M	3 to 11	3,6,9,10,11	OFDM	VHT0	MIMO
802.11ax 20M	1 to 13	1,6,11,12,13	OFDM	MCS0	MIMO
802.11ax 40M	3 to 11	3,6,9,10,11	OFDM	MCS0	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Peak Output Power	+/- 1 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 1%

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz: +/- 2.3dB
	+/- 4.93 dB	30MHz - 1000MHz: +/- 3.37dB
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.04dB
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz: +/- 2.3dB
	+/- 4.45 dB	30MHz - 1000MHz: +/- 4.22dB
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.08dB
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.08dB

Note:

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

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6 PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

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

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power 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.

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

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

$g_{j,k}$ = / 20 10Gk 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 grater than 6 dBi. Therefore, reduction of power is not required.

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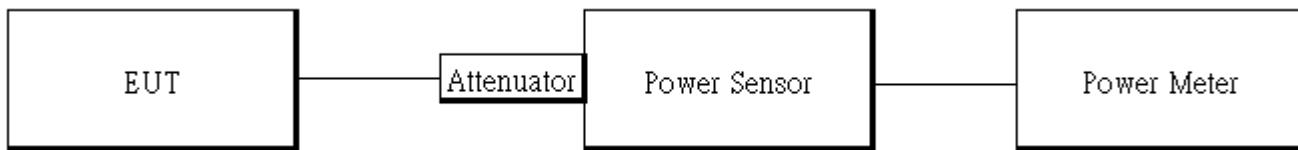
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6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/26/2020	06/25/2021
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	MVE2213-10	RF06	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF15	11/19/2020	11/18/2021
DC Block	PASTER-NACK	PE8210	RF153	11/19/2020	11/18/2021

6.3 Test Set-up



6.4 Measurement Procedure

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

Power Meter:

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

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

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6.5 Measurement Result:

6.5.1 Peak & Avg

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	15.5	18.08	17.83	20.97	30.00	PASS
6	2437	1	16	17.38	17.63	20.52	30.00	PASS
11	2462	1	15.5	17.57	17.57	20.58	30.00	PASS
12	2467	1	12	18.21	17.65	20.95	30.00	PASS
13	2472	1	5.5	13.32	13.75	16.55	30.00	PASS
802.11b_2TX								
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	1	15.5	13.11	13.13	16.15	30.00	PASS
6	2437	1	16	13.11	13.25	16.21	30.00	PASS
11	2462	1	15.5	13.13	13.24	16.22	30.00	PASS
12	2467	1	12	13.24	13.10	16.20	30.00	PASS
13	2472	1	5.5	9.01	9.36	12.22	30.00	PASS
802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	13.5	17.94	17.36	20.67	30.00	PASS
6	2437	6	16	17.10	17.38	20.25	30.00	PASS
11	2462	6	14	17.05	17.95	20.53	30.00	PASS
12	2467	6	9	16.87	16.01	19.47	30.00	PASS
13	2472	6	3.5	11.35	11.32	14.35	30.00	PASS
802.11g_2TX								
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	6	13.5	13.18	13.16	16.26	30.00	PASS
6	2437	6	16	13.04	13.01	16.11	30.00	PASS
11	2462	6	14	13.03	13.30	16.25	30.00	PASS
12	2467	6	9	12.33	11.96	15.24	30.00	PASS
13	2472	6	3.5	6.98	7.12	10.14	30.00	PASS

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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	VHT0	14.5	17.63	17.52	20.59	30.00	PASS
6	2437	VHT0	16	17.21	17.48	20.36	30.00	PASS
11	2462	VHT0	14	17.83	18.02	20.94	30.00	PASS
12	2467	VHT0	7.5	14.39	14.68	17.55	30.00	PASS
13	2472	VHT0	2.5	9.66	10.01	12.85	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	VHT0	14.5	13.04	13.30	16.45	30.00	PASS
6	2437	VHT0	16	13.03	13.24	16.42	30.00	PASS
11	2462	VHT0	14	13.25	13.06	16.44	30.00	PASS
12	2467	VHT0	7.5	10.10	10.03	13.35	30.00	PASS
13	2472	VHT0	2.5	5.40	5.42	8.69	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	VHT0	13	17.52	17.34	20.44	30.00	PASS
6	2437	VHT0	15	17.10	17.27	20.20	30.00	PASS
9	2452	VHT0	13.5	16.99	17.11	20.06	30.00	PASS
10	2457	VHT0	7	12.96	12.84	15.91	30.00	PASS
11	2462	VHT0	5	10.38	10.32	13.36	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	VHT0	13	12.85	12.77	16.33	30.00	PASS
6	2437	VHT0	15	12.79	12.92	16.38	30.00	PASS
9	2452	VHT0	13.5	12.94	12.99	16.49	30.00	PASS
10	2457	VHT0	7	8.01	8.18	11.62	30.00	PASS
11	2462	VHT0	5	6.20	6.07	9.66	30.00	PASS

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802.11ax_HE20M 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	13	17.29	17.23	20.27	30.00	PASS
6	2437	MCS0	15	16.61	16.72	19.68	30.00	PASS
11	2462	MCS0	13.5	16.67	16.60	19.65	30.00	PASS
12	2467	MCS0	7	14.72	14.34	17.54	30.00	PASS
13	2472	MCS0	2	9.04	9.88	12.49	30.00	PASS
802.11ax_HE20M 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	13	12.52	12.51	16.40	30.00	PASS
6	2437	MCS0	15	12.44	12.40	16.31	30.00	PASS
11	2462	MCS0	13.5	12.57	12.60	16.47	30.00	PASS
12	2467	MCS0	7	9.77	9.44	13.50	30.00	PASS
13	2472	MCS0	2	4.68	4.91	8.68	30.00	PASS
802.11ax_HE40M 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	13.5	17.27	17.07	20.18	30.00	PASS
6	2437	MCS0	14.5	16.42	16.18	19.31	30.00	PASS
9	2452	MCS0	13.5	16.73	16.77	19.76	30.00	PASS
10	2457	MCS0	6.5	12.32	12.41	20.11	30.00	PASS
11	2462	MCS0	4.5	10.25	10.71	20.19	30.00	PASS
802.11ax_HE40M 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	13.5	12.37	12.42	16.26	30.00	PASS
6	2437	MCS0	14.5	12.42	12.49	16.32	30.00	PASS
9	2452	MCS0	13.5	12.56	12.57	16.43	30.00	PASS
10	2457	MCS0	6.5	7.81	7.56	11.55	30.00	PASS
11	2462	MCS0	4.5	5.76	5.89	9.69	30.00	PASS

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

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6.5.2 EIRP

802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	13.11	13.13	16.15	2.31	18.46	36	PASS
6	2437	1	13.11	13.25	16.21	2.31	18.52	36	PASS
11	2462	1	13.13	13.24	16.22	2.31	18.53	36	PASS
12	2467	1	13.24	13.10	16.20	2.31	18.51	36	PASS
13	2472	1	9.01	9.36	12.22	2.31	14.53	36	PASS

802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	13.18	13.16	16.26	2.31	18.57	36	PASS
6	2437	6	13.04	13.01	16.11	2.31	18.42	36	PASS
11	2462	6	13.03	13.30	16.25	2.31	18.56	36	PASS
12	2467	6	12.33	11.96	15.24	2.31	17.55	36	PASS
13	2472	6	6.98	7.12	10.14	2.31	12.45	36	PASS

802.11ac_VHT20M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS8	13.04	13.30	16.45	2.31	18.76	36	PASS
6	2437	MCS8	13.03	13.24	16.42	2.31	18.73	36	PASS
11	2462	MCS8	13.25	13.06	16.44	2.31	18.75	36	PASS
12	2467	MCS8	10.10	10.03	13.35	2.31	15.66	36	PASS
13	2472	MCS8	5.40	5.42	8.69	2.31	11.00	36	PASS

802.11ac_VHT40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	12.85	12.77	16.33	2.31	18.64	36	PASS
6	2437	MCS8	12.79	12.92	16.38	2.31	18.69	36	PASS
9	2452	MCS8	12.94	12.99	16.49	2.31	18.80	36	PASS
10	2457	MCS8	8.01	8.18	11.62	2.31	13.93	36	PASS
11	2462	MCS8	6.20	6.07	9.66	2.31	11.97	36	PASS

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802.11ax_HE20M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1					
1	2412	MCS0	12.52	12.51	16.40	2.31	18.71	36	PASS
6	2437	MCS0	12.44	12.40	16.31	2.31	18.62	36	PASS
11	2462	MCS0	12.57	12.60	16.47	2.31	18.78	36	PASS
802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1					
3	2422	MCS0	12.37	12.42	16.26	2.31	18.57	36	PASS
6	2437	MCS0	12.42	12.49	16.32	2.31	18.63	36	PASS
9	2452	MCS0	12.56	12.57	16.43	2.31	18.74	36	PASS
10	2457	MCS0	7.81	7.56	11.55	2.31	13.86	36	PASS
11	2462	MCS0	5.76	5.89	9.69	2.31	12.00	36	PASS

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below. And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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7.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/22/2020	06/21/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
3m Site NSA	SGS	966 chamber D	N/A	07/12/2020	07/11/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	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	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

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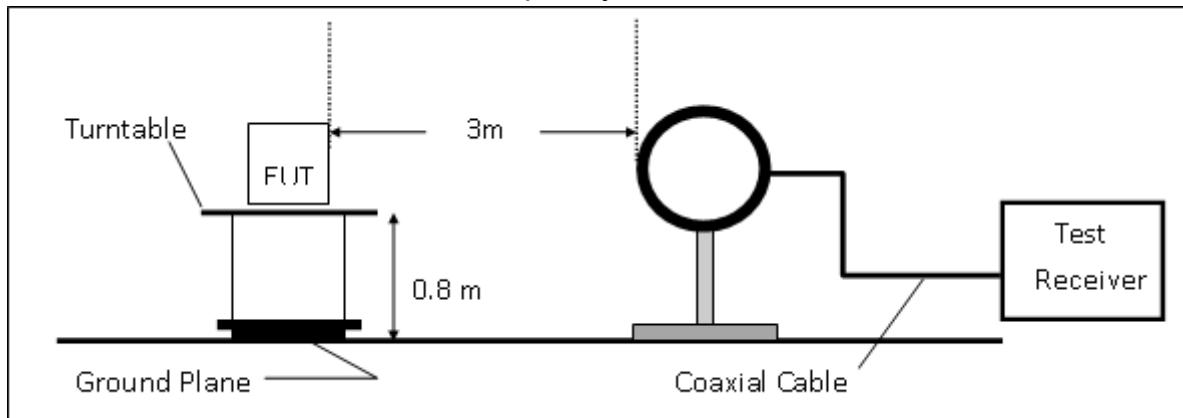
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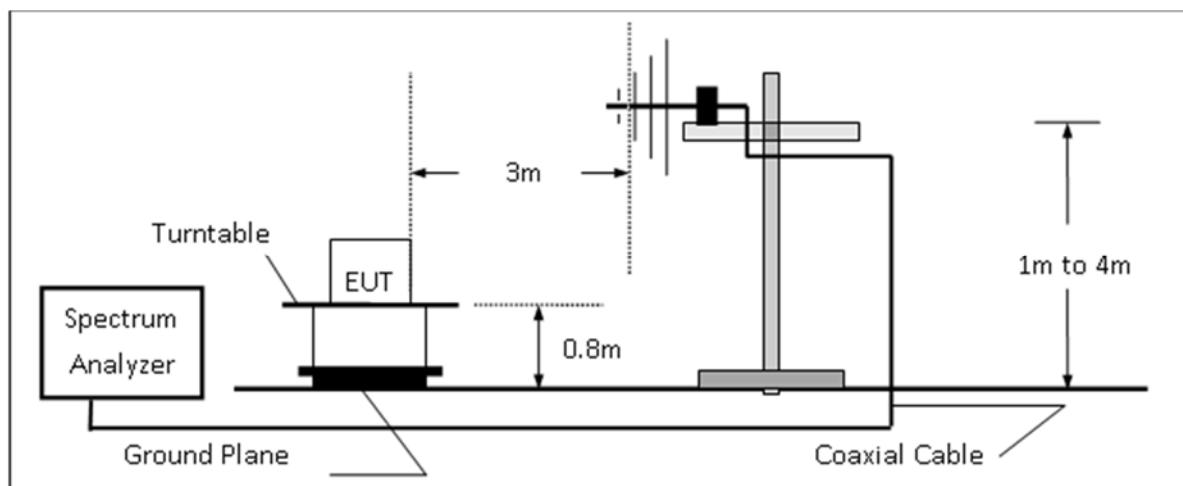
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7.3 Test SET-UP

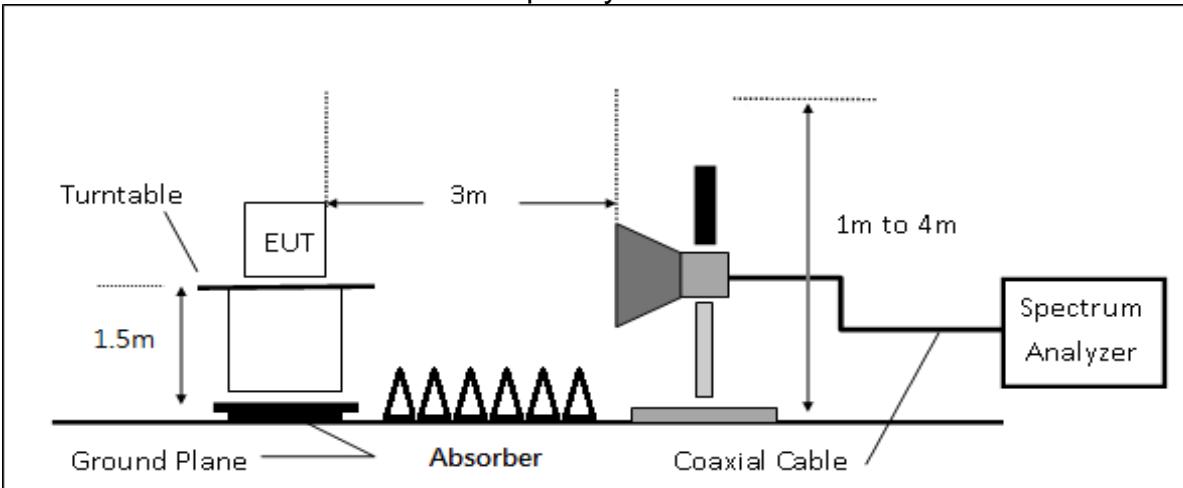
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency from 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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7.4 Measurement Procedure

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

7.5 Field Strength Calculation

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

$$\mathbf{FS = RA + AF + CL - AG}$$

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 dB μ V/m, which converts $20 \log(uV/m)$

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

7.7 Measurement Result

Note:

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

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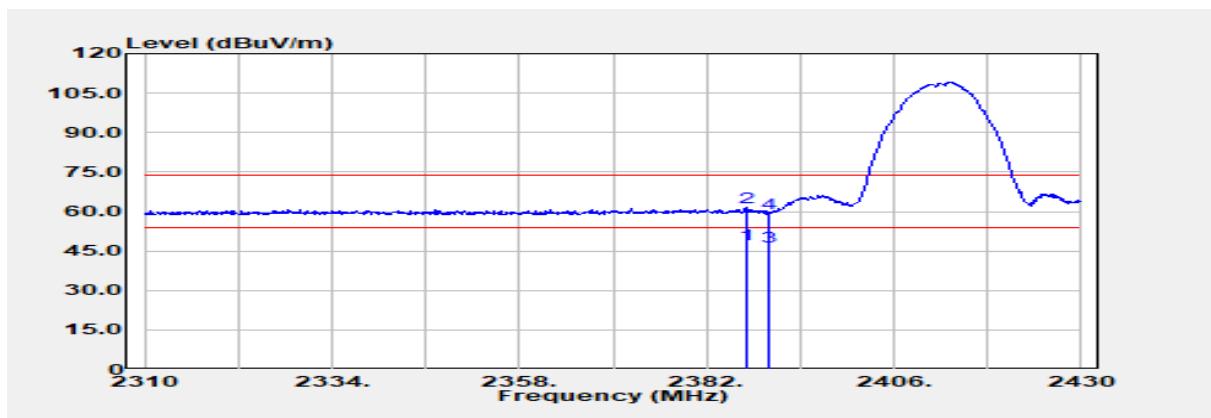
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7.7.1 Radiated Band Edge Measurement Result:

Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11b	Test Date	:2021-01-12
Test Frequency	:2412 MHz	Temp./Humi.	:22.1/65
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	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
2387.280	Average	55.42	-7.91	47.51	54.00	-6.49
2387.280	Peak	69.33	-7.91	61.42	74.00	-12.58
2390.000	Average	54.62	-7.99	46.63	54.00	-7.37
2390.000	Peak	67.27	-7.99	59.28	74.00	-14.72

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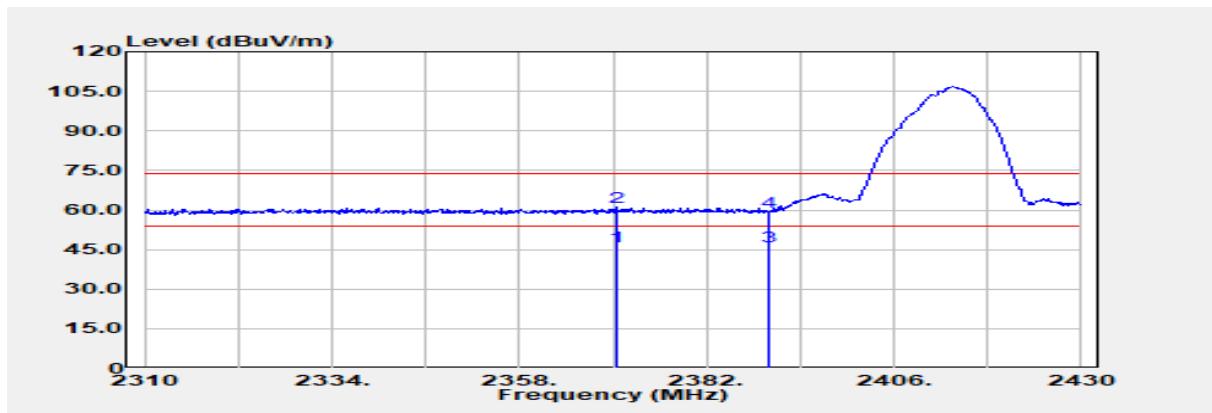
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11b Test Date :2021-01-12
Test Frequency :2412 MHz Temp./Humi. :22.1/65
Test Mode :BE CH LOW Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2370.600	Average	54.00	-7.71	46.29	54.00	54.00	-7.71
2370.600	Peak	68.88	-7.71	61.17	74.00	74.00	-12.83
2390.000	Average	54.30	-7.99	46.31	54.00	54.00	-7.69
2390.000	Peak	67.20	-7.99	59.21	74.00	74.00	-14.79

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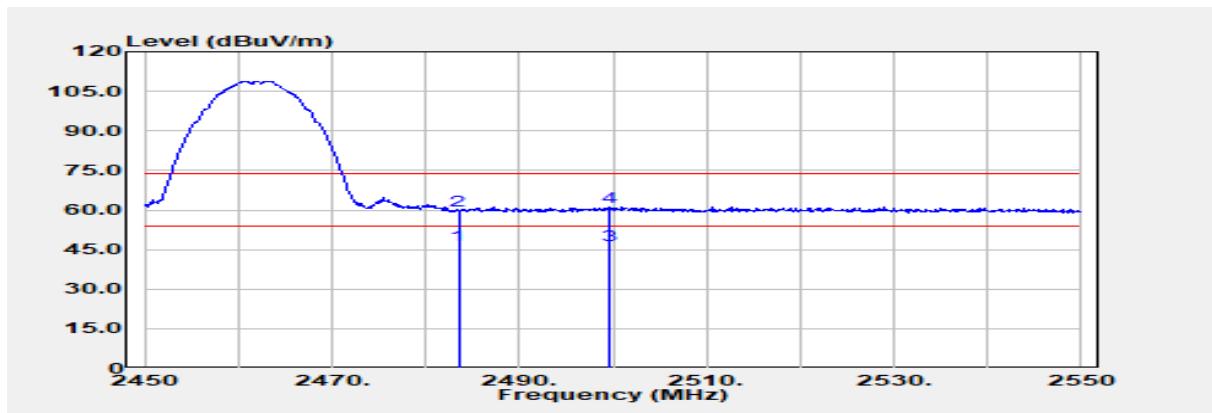
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11b Test Date :2021-01-12
Test Frequency :2462 MHz Temp./Humi. :22.1/65
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	54.57	-8.12	46.45	54.00	-7.55
2483.500	Peak	68.09	-8.12	59.97	74.00	-14.03
2499.600	Average	54.26	-7.59	46.68	54.00	-7.32
2499.600	Peak	68.83	-7.59	61.24	74.00	-12.76

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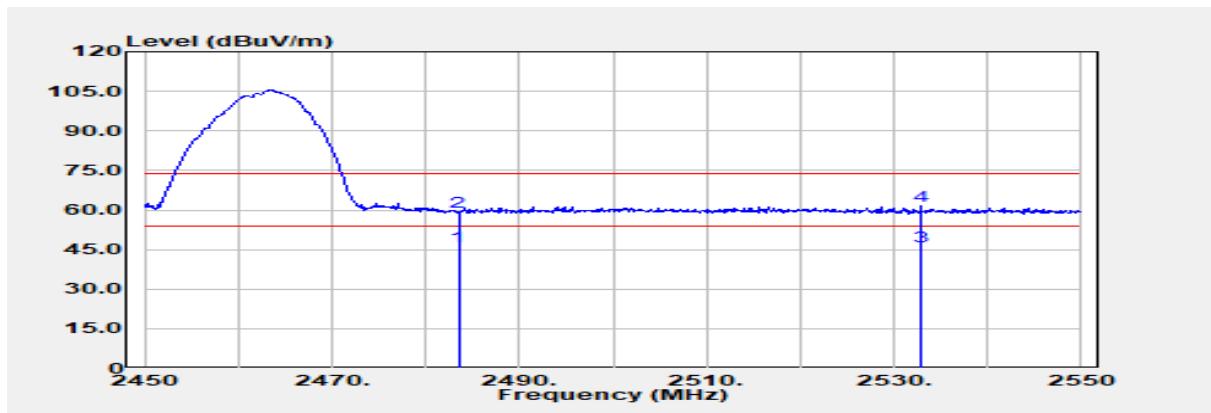
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11b	Test Date	:2021-01-12
Test Frequency	:2462 MHz	Temp./Humi.	:22.1/65
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	Limit @3m dB μ V/m	
2483.500	Average	54.30	-8.12	46.18	54.00	-7.82
2483.500	Peak	67.24	-8.12	59.12	74.00	-14.88
2532.900	Average	54.11	-7.98	46.12	54.00	-7.88
2532.900	Peak	69.53	-7.98	61.55	74.00	-12.45

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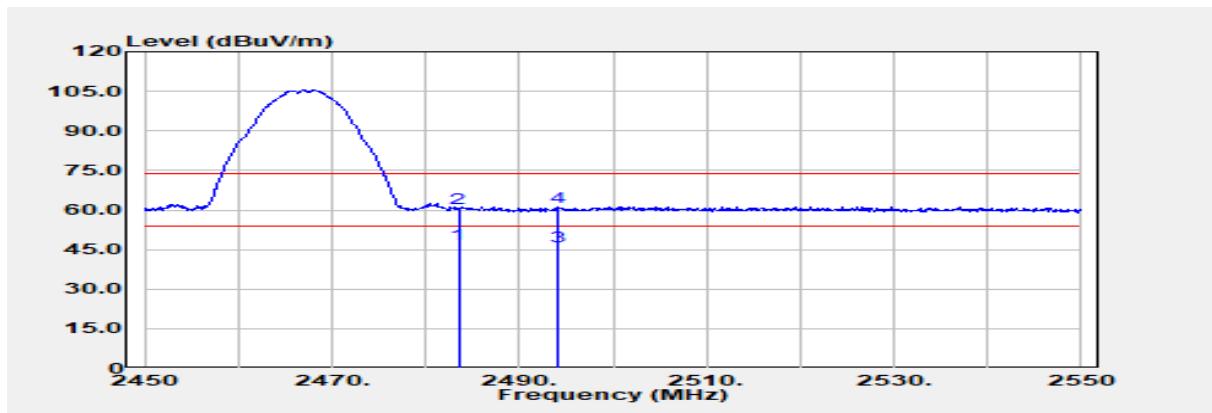
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11b	Test Date	:2021-01-12
Test Frequency	:2467 MHz	Temp./Humi.	:22.1/65
Test Mode	:BE CH 12	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
				FS	@3m	dB
2483.500	Average	55.08	-8.12	46.96	54.00	-7.04
2483.500	Peak	68.76	-8.12	60.64	74.00	-13.36
2494.000	Average	54.17	-7.92	46.26	54.00	-7.74
2494.000	Peak	69.27	-7.92	61.36	74.00	-12.64

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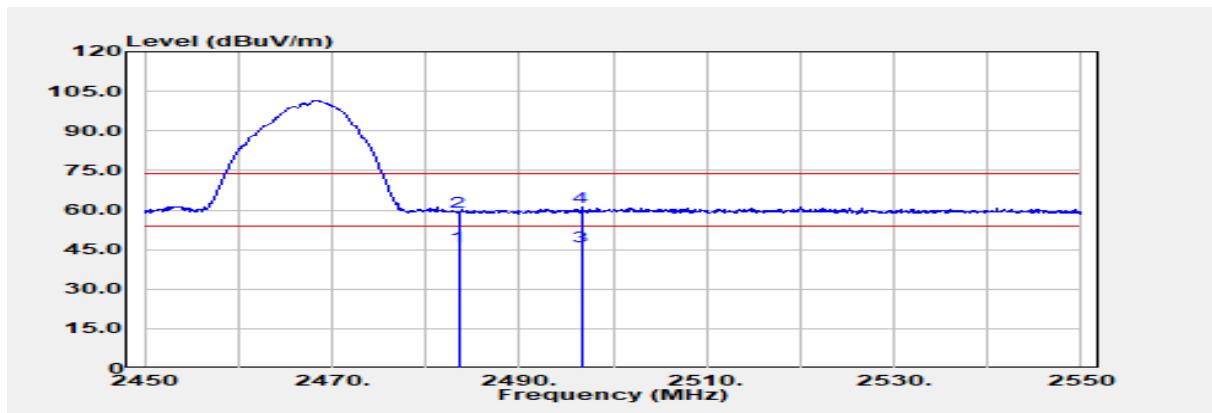
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11b Test Date :2021-01-13
Test Frequency :2467 MHz Temp./Humi. : 19.6/62
Test Mode :BE CH 12 Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	54.22	-8.12	46.10	54.00	-7.90
2483.500	Peak	67.57	-8.12	59.45	74.00	-14.55
2496.600	Average	54.12	-7.76	46.36	54.00	-7.64
2496.600	Peak	68.89	-7.76	61.13	74.00	-12.87

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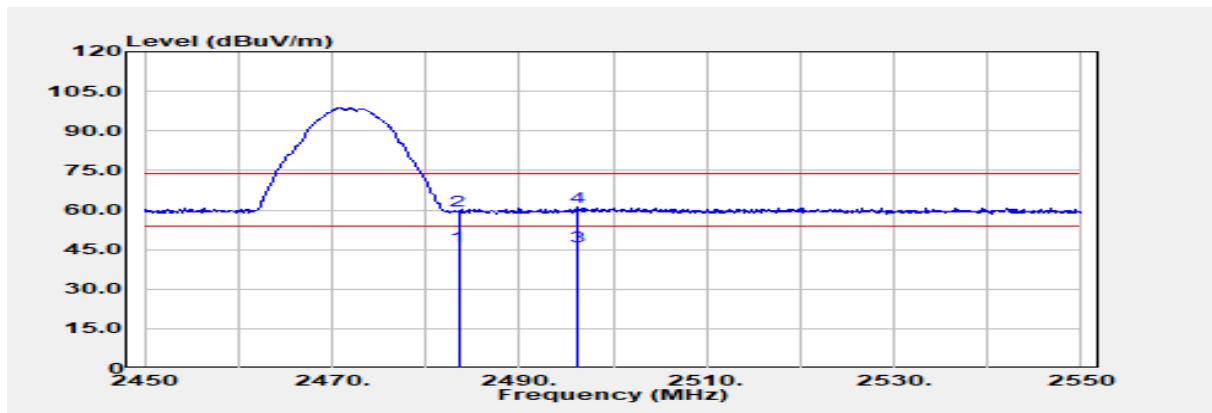
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Report Number :E2/2020/C0072
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-13
 Temp./Humi. : 19.6/62
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	Limit @3m dB μ V/m	
2483.500	Average	54.42	-8.12	46.30	54.00	-7.70
2483.500	Peak	67.89	-8.12	59.77	74.00	-14.23
2496.100	Average	54.11	-7.79	46.32	54.00	-7.68
2496.100	Peak	68.71	-7.79	60.92	74.00	-13.08

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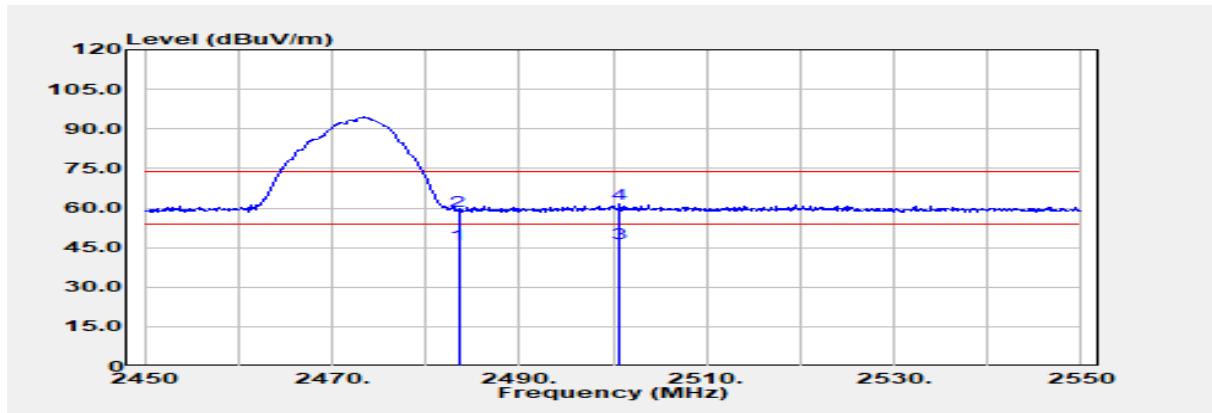
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11b	Test Date	:2021-01-13
Test Frequency	:2472 MHz	Temp./Humi.	: 19.6/62
Test Mode	:BE CH 13	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2483.500	Average	54.22	-8.12	46.10	54.00	-7.90
2483.500	Peak	67.05	-8.12	58.93	74.00	-15.07
2500.700	Average	54.09	-7.59	46.50	54.00	-7.50
2500.700	Peak	69.13	-7.59	61.54	74.00	-12.46

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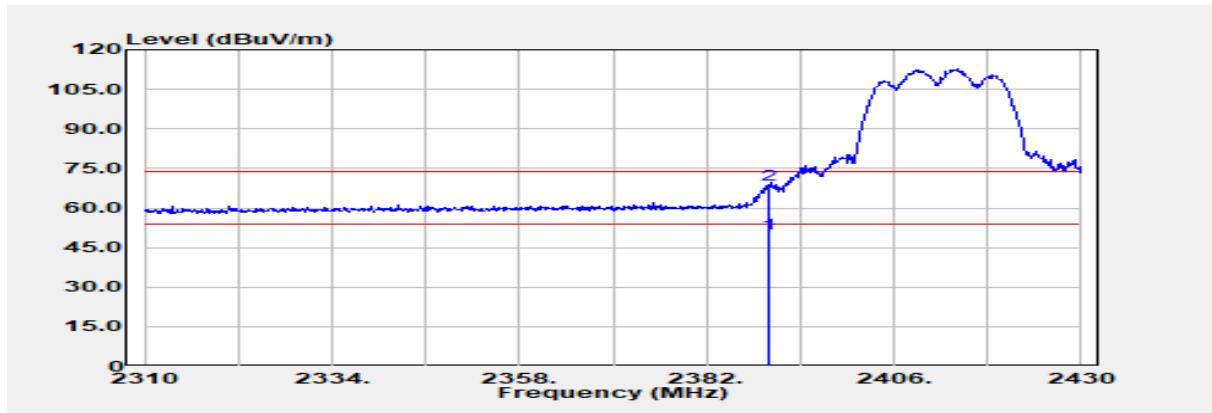
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11g Test Date :2021-01-20
Test Frequency :2412 MHz Temp./Humi. :21.0/62
Test Mode :BE CH LOW Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2390.000	Average	58.42	-7.99		50.43	54.00	-3.57
2390.000	Peak	76.95	-7.99		68.97	74.00	-5.03

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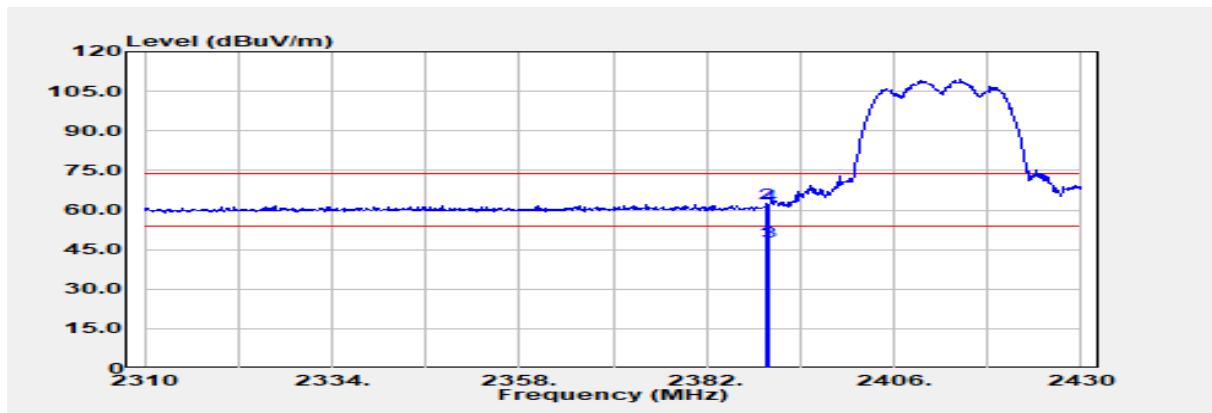
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11g	Test Date	:2021-01-21
Test Frequency	:2412 MHz	Temp./Humi.	:20.8/63
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2389.680	Average	56.02	-7.98	48.04	54.00	-5.96
2389.680	Peak	70.48	-7.98	62.50	74.00	-11.50
2390.000	Average	55.95	-7.99	47.96	54.00	-6.04
2390.000	Peak	69.82	-7.99	61.83	74.00	-12.17

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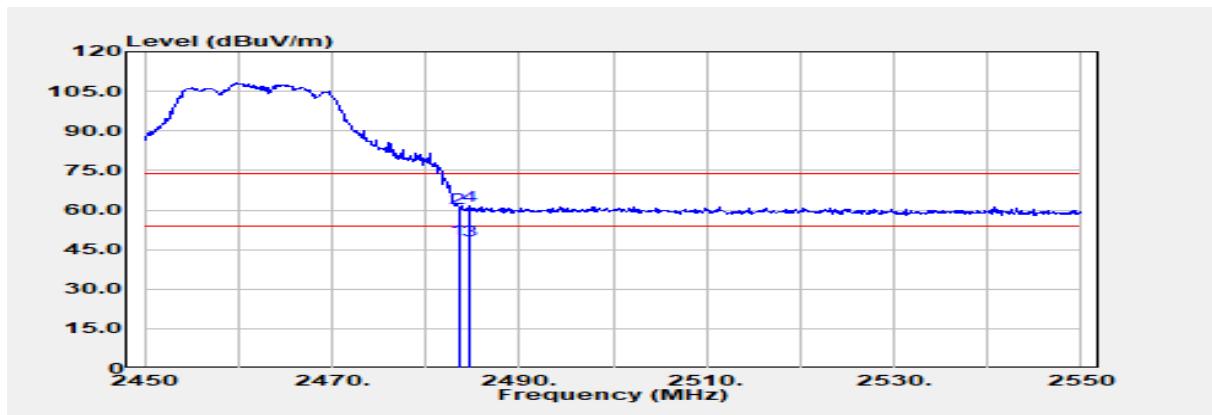
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11g Test Date :2021-01-07
Test Frequency :2462 MHz Temp./Humi. :20.2/68
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	56.89	-8.12	48.77	54.00	-5.23
2483.500	Peak	68.99	-8.12	60.87	74.00	-13.13
2484.800	Average	56.70	-8.13	48.57	54.00	-5.43
2484.800	Peak	69.77	-8.13	61.65	74.00	-12.35

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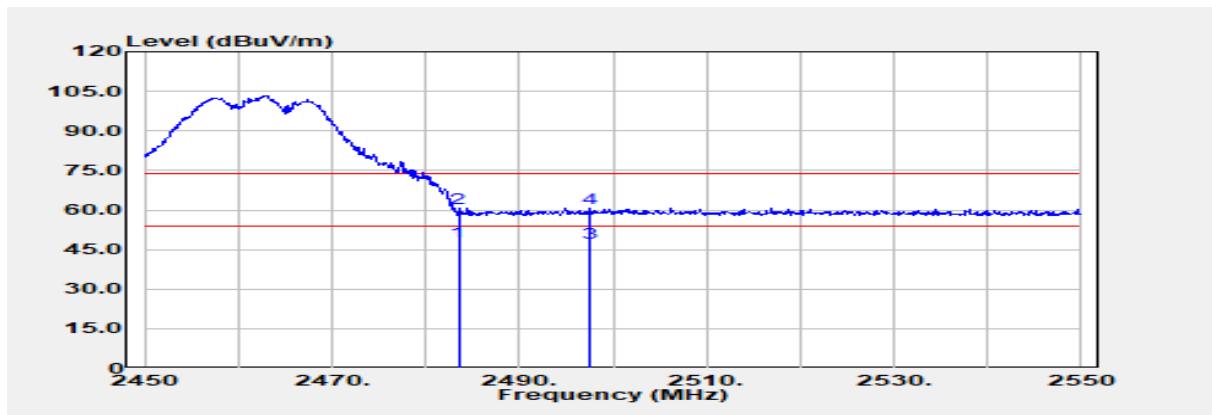
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11g	Test Date	:2021-01-07
Test Frequency	:2462 MHz	Temp./Humi.	:20.2/68
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	56.05	-8.12	47.93	54.00	-6.07
2483.500	Peak	68.60	-8.12	60.48	74.00	-13.52
2497.500	Average	55.41	-7.71	47.70	54.00	-6.30
2497.500	Peak	68.56	-7.71	60.85	74.00	-13.15

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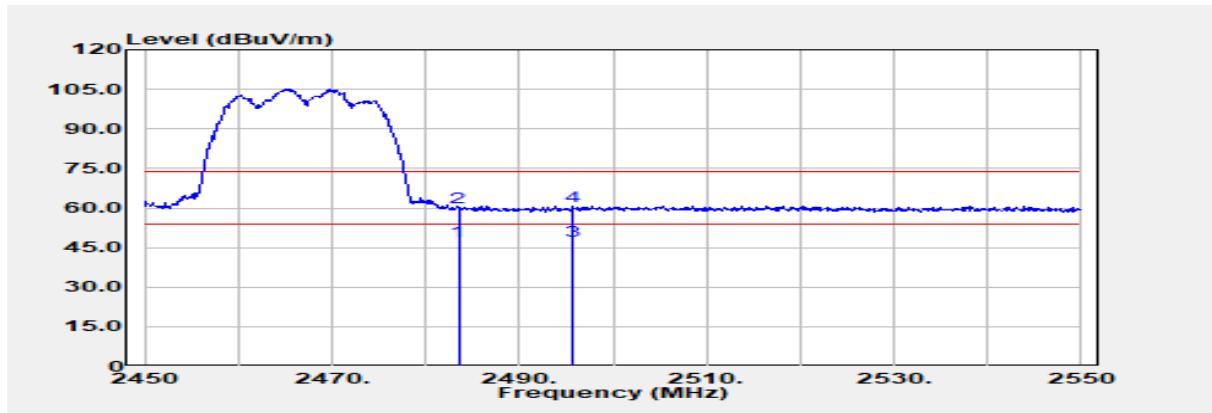
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11g	Test Date	:2021-01-12
Test Frequency	:2467 MHz	Temp./Humi.	:22.1/65
Test Mode	:BE CH 12	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	55.46	-8.12	47.34	54.00	-6.66
2483.500	Peak	68.21	-8.12	60.09	74.00	-13.91
2495.800	Average	55.27	-7.81	47.46	54.00	-6.54
2495.800	Peak	68.67	-7.81	60.86	74.00	-13.14

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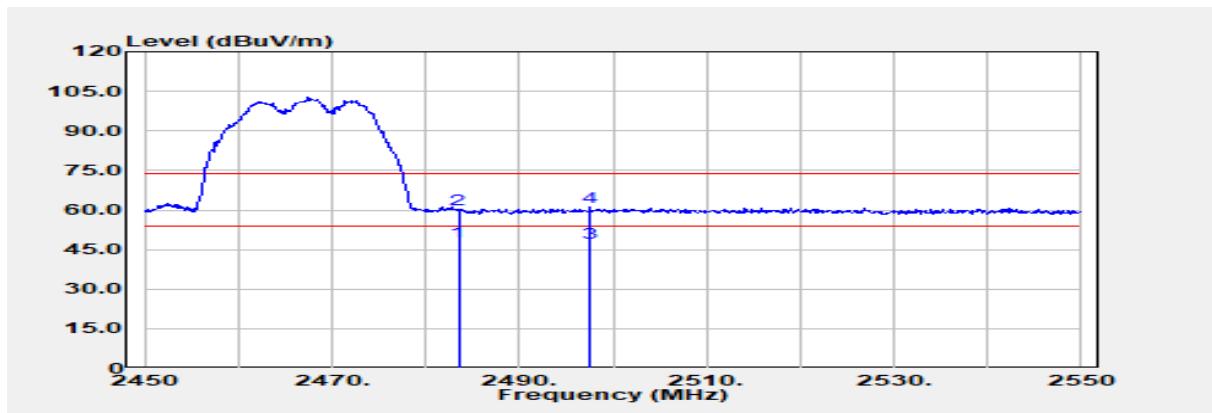
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Report Number :E2/2020/C0072
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-12
 Temp./Humi. :22.1/65
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2483.500	Average	56.00	-8.12	47.88	54.00	-6.12
2483.500	Peak	68.20	-8.12	60.08	74.00	-13.92
2497.500	Average	55.20	-7.71	47.49	54.00	-6.51
2497.500	Peak	68.71	-7.71	61.00	74.00	-13.00

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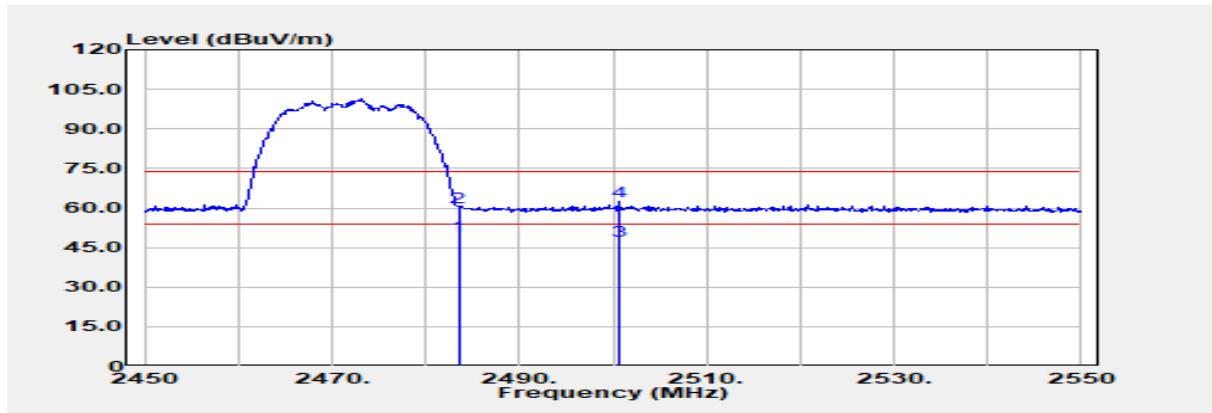
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Report Number :E2/2020/C0072
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-12
 Temp./Humi. :22.1/65
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2483.500	Average	57.37	-8.12	49.25	54.00	-4.75
2483.500	Peak	68.48	-8.12	60.36	74.00	-13.64
2500.600	Average	55.11	-7.59	47.52	54.00	-6.48
2500.600	Peak	69.88	-7.59	62.29	74.00	-11.71

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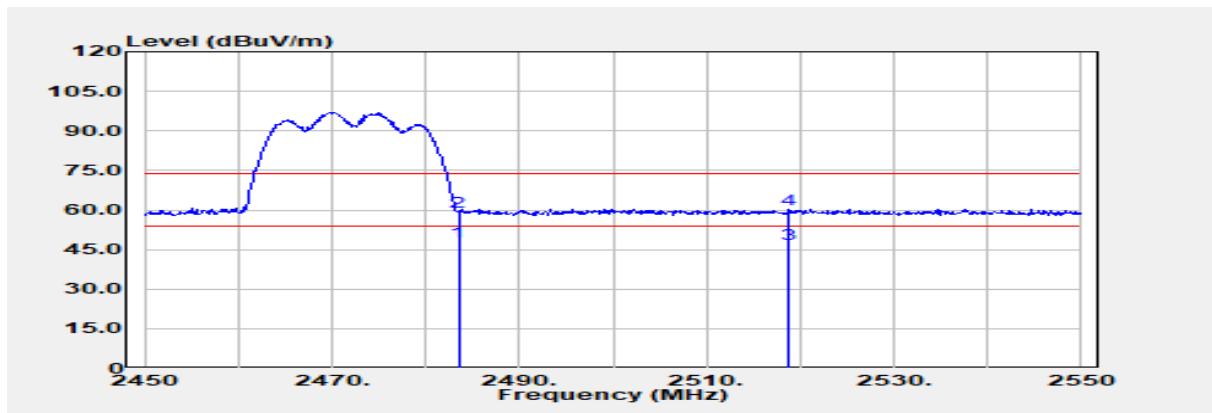
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11g	Test Date	:2021-01-12
Test Frequency	:2472 MHz	Temp./Humi.	:22.1/65
Test Mode	:BE CH 13	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	56.04	-8.12	47.92	54.00	-6.08
2483.500	Peak	67.32	-8.12	59.20	74.00	-14.80
2518.800	Average	54.97	-7.73	47.24	54.00	-6.76
2518.800	Peak	68.15	-7.73	60.43	74.00	-13.57

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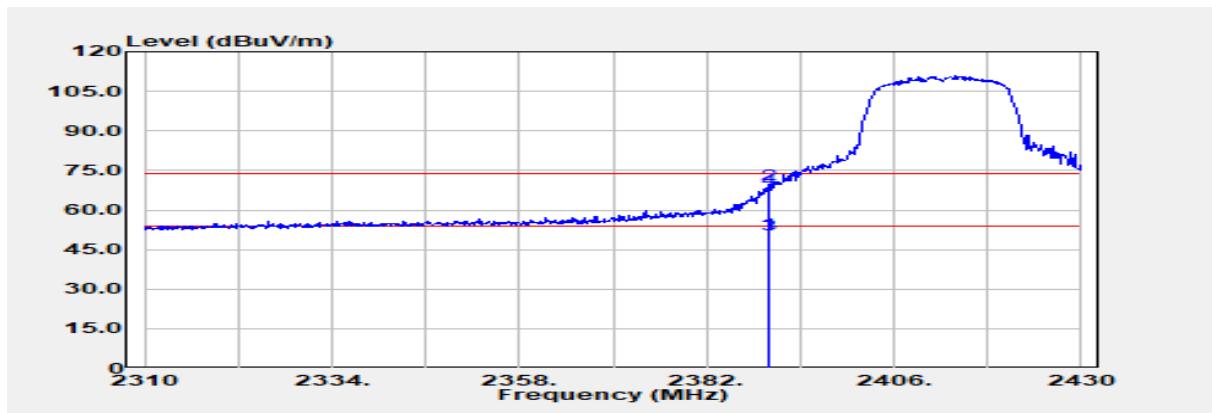
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ac20	Test Date	:2021-01-05
Test Frequency	:2412 MHz	Temp./Humi.	:19.9/68
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2389.920	Average	59.20	-7.98	51.22	54.00	-2.78
2389.920	Peak	77.75	-7.98	69.76	74.00	-4.24
2390.000	Average	58.49	-7.99	50.50	54.00	-3.50
2390.000	Peak	76.10	-7.99	68.11	74.00	-5.89

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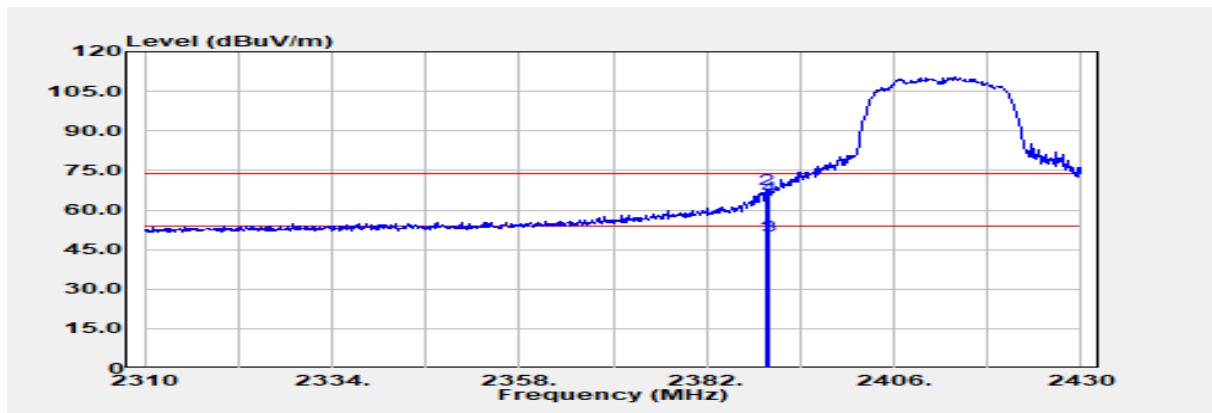
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ac20 Test Date :2021-01-05
Test Frequency :2412 MHz Temp./Humi. :19.9/68
Test Mode :BE CH LOW Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2389.680	Average	58.40	-7.98	50.42	54.00	54.00	-3.58
2389.680	Peak	75.99	-7.98	68.01	74.00	74.00	-5.99
2390.000	Average	58.17	-7.99	50.18	54.00	54.00	-3.82
2390.000	Peak	73.19	-7.99	65.21	74.00	74.00	-8.79

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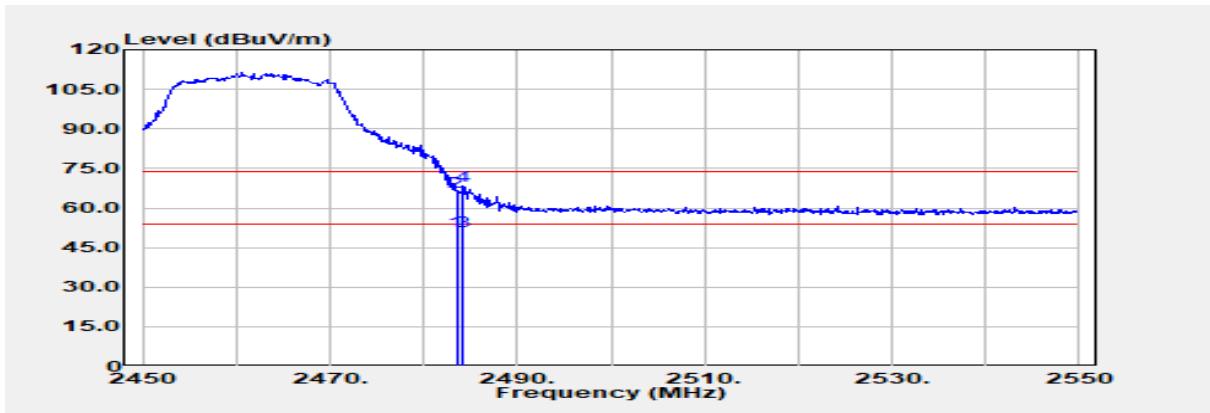
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ac20 Test Date :2021-01-05
Test Frequency :2462 MHz Temp./Humi. :19.9/68
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	@3m dB μ V/m	
2483.500	Average	59.50	-8.12	51.38	54.00	-2.62
2483.500	Peak	74.16	-8.12	66.04	74.00	-7.96
2484.200	Average	59.30	-8.12	51.18	54.00	-2.82
2484.200	Peak	76.63	-8.12	68.51	74.00	-5.49

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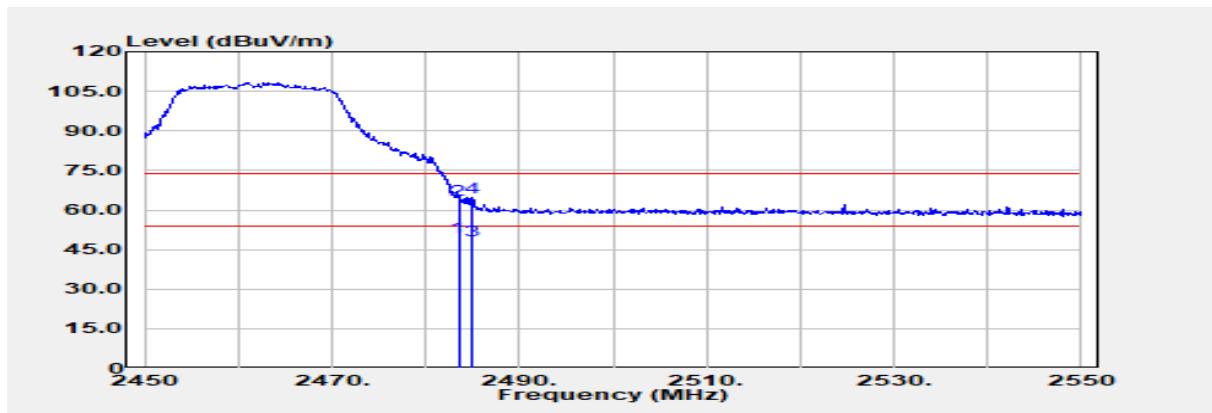
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Report Number :E2/2020/C0072
 Operation Mode :802.11ac20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-05
 Temp./Humi. :19.9/68
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2483.500	Average	57.80	-8.12	49.68	54.00	-4.32
2483.500	Peak	71.96	-8.12	63.84	74.00	-10.16
2484.900	Average	56.70	-8.13	48.57	54.00	-5.43
2484.900	Peak	73.09	-8.13	64.96	74.00	-9.04

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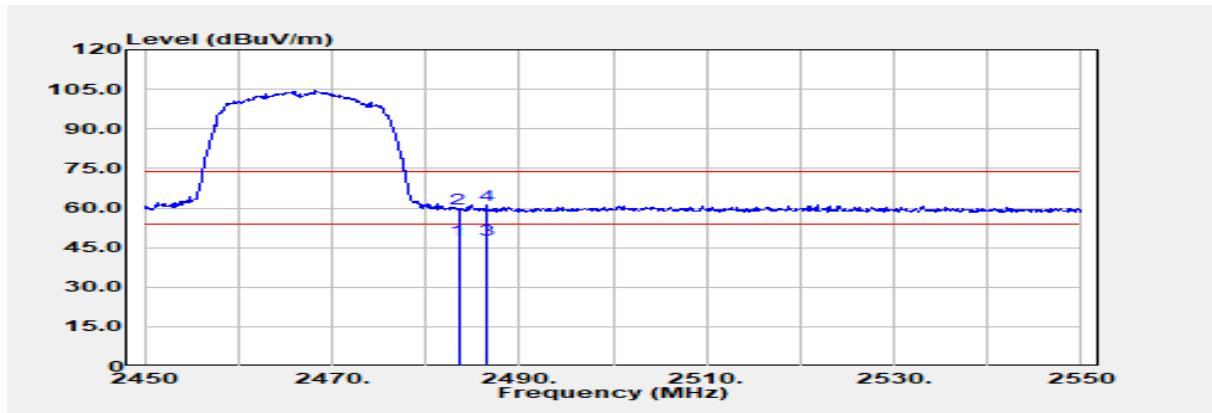
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ac20	Test Date	:2021-01-12
Test Frequency	:2467 MHz	Temp./Humi.	:22.1/65
Test Mode	:BE CH 12	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB _{BuV}	Factor dB	Actual		Margin dB
				FS dB _{BuV/m}	Limit @3m dB _{BuV/m}	
2483.500	Average	56.34	-8.12	48.22	54.00	-5.78
2483.500	Peak	67.89	-8.12	59.77	74.00	-14.23
2486.400	Average	55.97	-8.13	47.84	54.00	-6.16
2486.400	Peak	69.39	-8.13	61.25	74.00	-12.75

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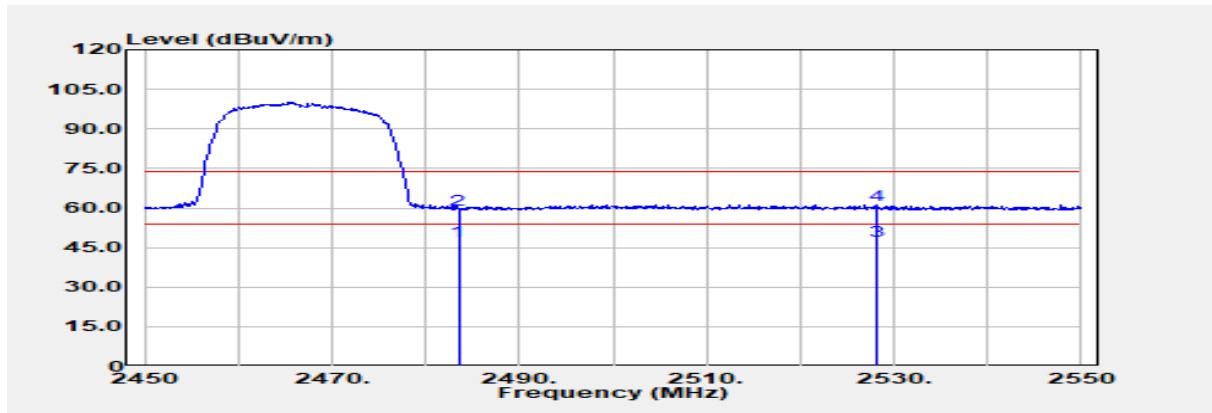
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ac20 Test Date :2021-01-12
Test Frequency :2467 MHz Temp./Humi. :22.1/65
Test Mode :BE CH 12 Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	@3m dB μ V/m	
2483.500	Average	55.54	-8.12	47.42	54.00	-6.58
2483.500	Peak	67.52	-8.12	59.41	74.00	-14.59
2528.100	Average	55.33	-7.97	47.37	54.00	-6.63
2528.100	Peak	69.20	-7.97	61.24	74.00	-12.76

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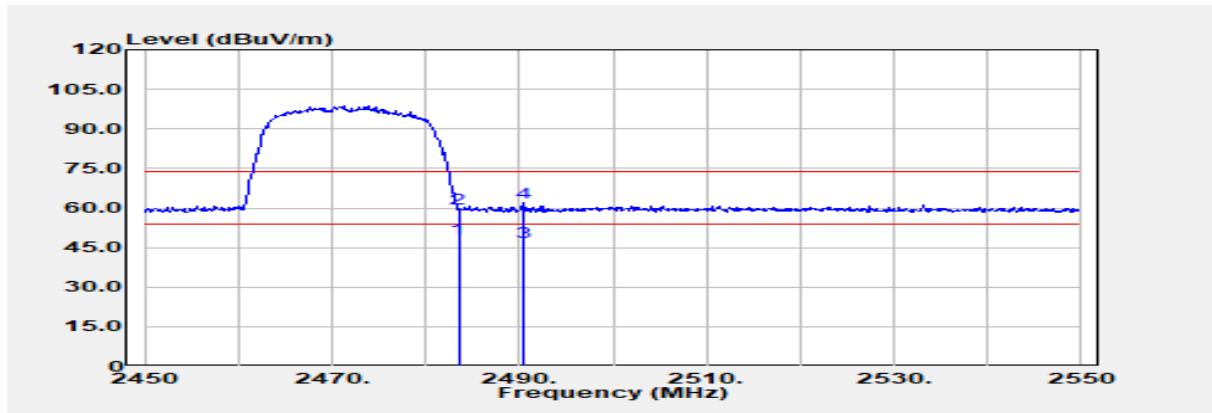
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Report Number :E2/2020/C0072
 Operation Mode :802.11ac20
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-12
 Temp./Humi. :22.1/65
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual		Margin dB
				FS	@3m dB μ V/m	
PK/QP/AV	dB μ V	dB	dB	dB μ V/m	dB μ V/m	
2483.500	Average	56.65	-8.12	48.53	54.00	-5.47
2483.500	Peak	67.75	-8.12	59.63	74.00	-14.37
2490.400	Average	55.10	-8.13	46.97	54.00	-7.03
2490.400	Peak	70.16	-8.13	62.04	74.00	-11.96

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Report Number :E2/2020/C0072
 Operation Mode :802.11ac20
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-12
 Temp./Humi. :22.1/65
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2483.500	Average	56.26	-8.12	48.14	54.00	-5.86
2483.500	Peak	68.15	-8.12	60.03	74.00	-13.97
2496.700	Average	55.47	-7.76	47.71	54.00	-6.29
2496.700	Peak	68.84	-7.76	61.09	74.00	-12.91

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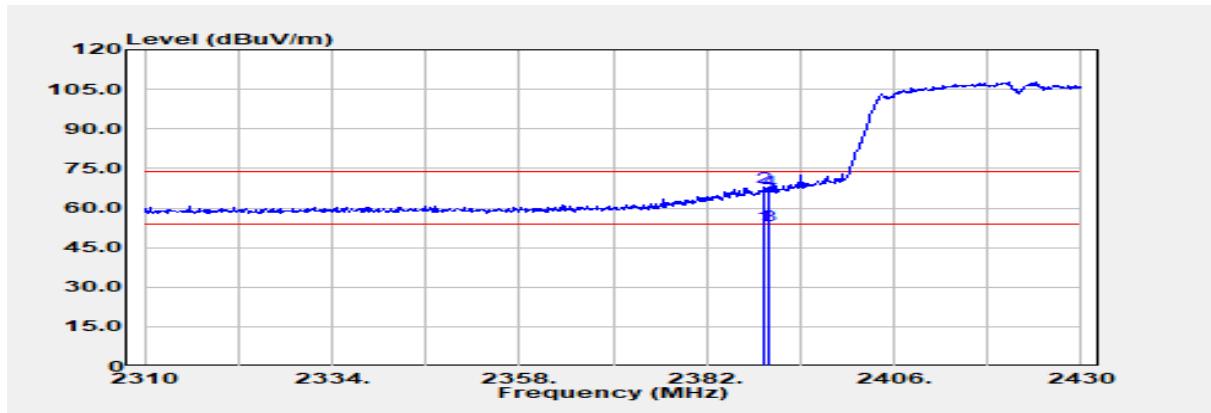
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ac40	Test Date	:2021-01-20
Test Frequency	:2422 MHz	Temp./Humi.	:21.0/62
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual	Limit	Margin
				FS	@3m dB μ V/m	dB
2389.320	Average	61.28	-7.97	53.32	54.00	-0.68
2389.320	Peak	76.08	-7.97	68.11	74.00	-5.89
2390.000	Average	61.64	-7.99	53.65	54.00	-0.35
2390.000	Peak	74.75	-7.99	66.77	74.00	-7.23

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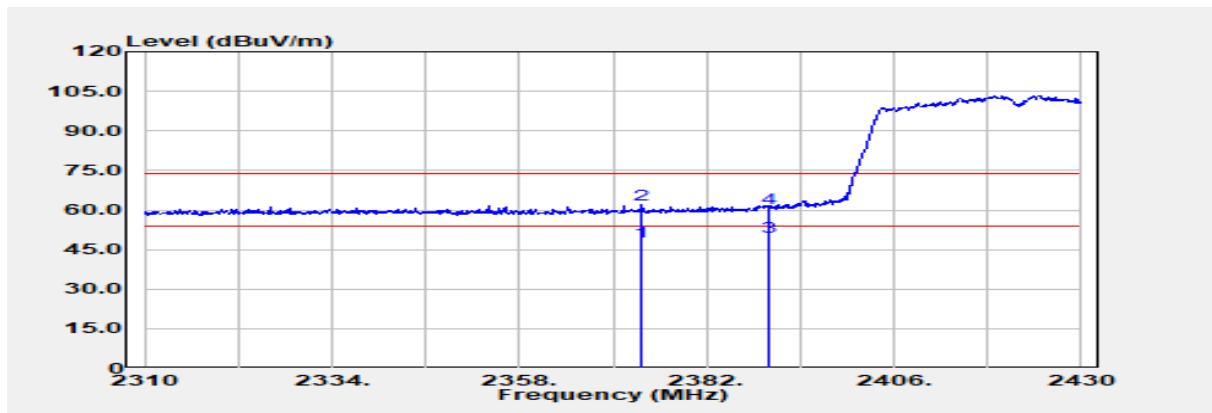
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ac40	Test Date	:2021-01-21
Test Frequency	:2422 MHz	Temp./Humi.	:20.8/63
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2373.600	Average	55.86	-7.70	48.16	54.00	-5.84
2373.600	Peak	69.75	-7.70	62.05	74.00	-11.95
2390.000	Average	57.57	-7.99	49.59	54.00	-4.41
2390.000	Peak	68.69	-7.99	60.70	74.00	-13.30

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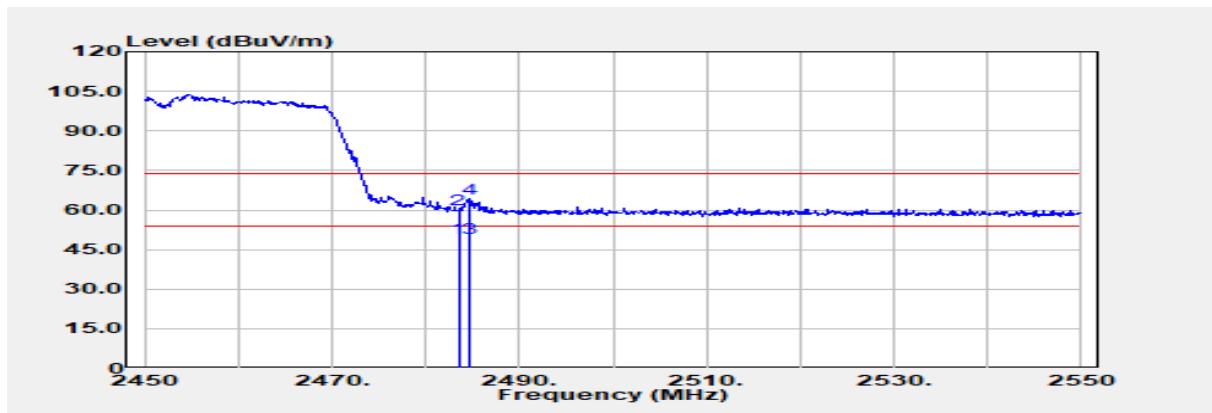
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ac40 Test Date :2021-01-05
Test Frequency :2452 MHz Temp./Humi. :19.9/68
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	57.45	-8.12	49.33	54.00	-4.67
2483.500	Peak	68.42	-8.12	60.31	74.00	-13.69
2484.700	Average	57.34	-8.13	49.21	54.00	-4.79
2484.700	Peak	72.26	-8.13	64.14	74.00	-9.86

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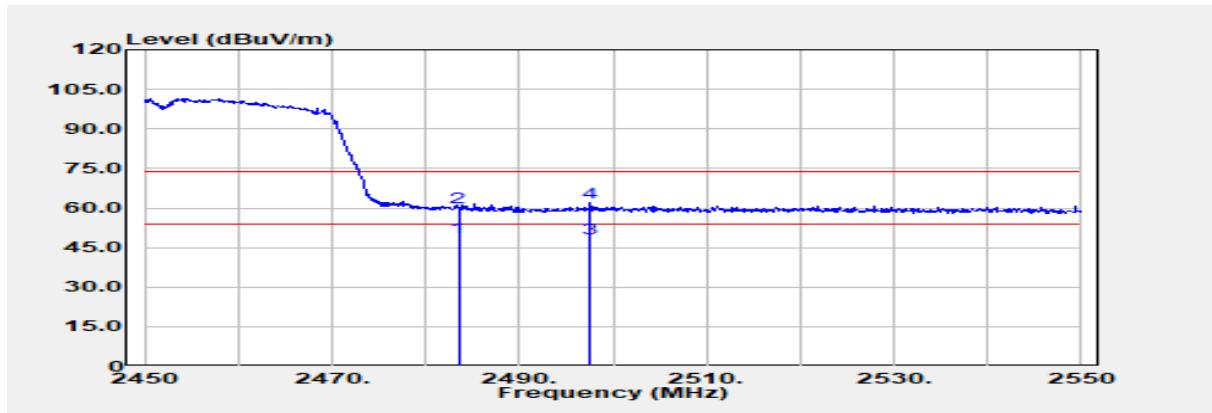
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ac40 Test Date :2021-01-05
Test Frequency :2452 MHz Temp./Humi. :19.9/68
Test Mode :BE CH HIGH Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	56.90	-8.12	48.78	54.00	-5.22
2483.500	Peak	68.50	-8.12	60.38	74.00	-13.62
2497.600	Average	56.14	-7.70	48.44	54.00	-5.56
2497.600	Peak	69.72	-7.70	62.02	74.00	-11.98

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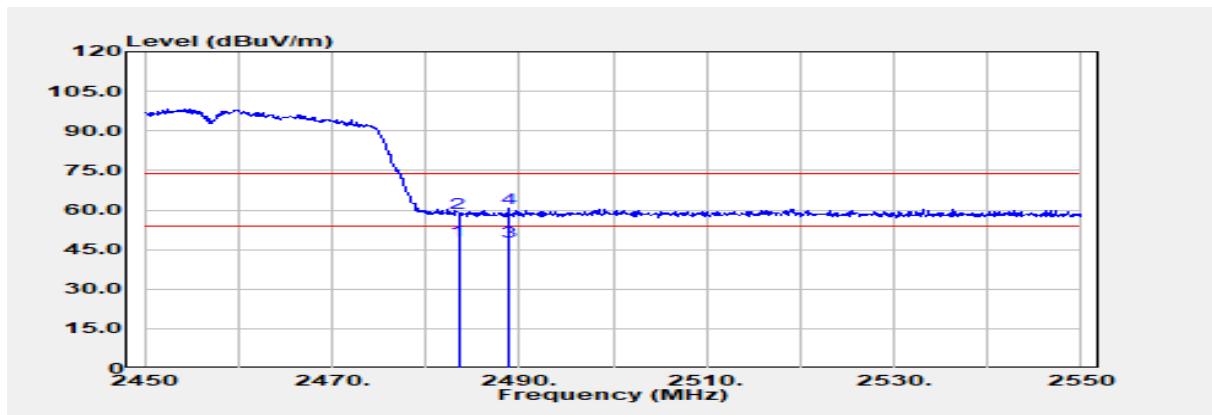
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ac40 Test Date :2021-01-12
Test Frequency :2457 MHz Temp./Humi. :22.1/65
Test Mode :BE CH 10 Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	@3m dB μ V/m	
2483.500	Average	56.44	-8.12	48.32	54.00	-5.68
2483.500	Peak	67.15	-8.12	59.03	74.00	-14.97
2488.800	Average	56.16	-8.14	48.01	54.00	-5.99
2488.800	Peak	68.60	-8.14	60.46	74.00	-13.54

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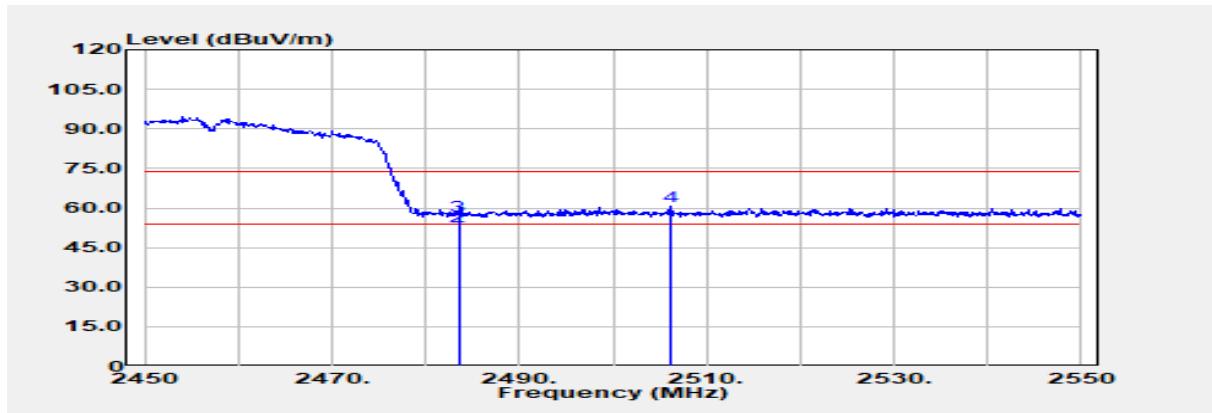
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ac40	Test Date	:2021-01-12
Test Frequency	:2457 MHz	Temp./Humi.	:22.1/65
Test Mode	:BE CH 10	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	60.90	-8.12	52.78	54.00	-1.22
2483.500	Average	60.88	-8.12	52.76	54.00	-1.24
2483.500	Peak	65.17	-8.12	57.05	74.00	-16.95
2506.100	Peak	68.32	-7.81	60.51	74.00	-13.49

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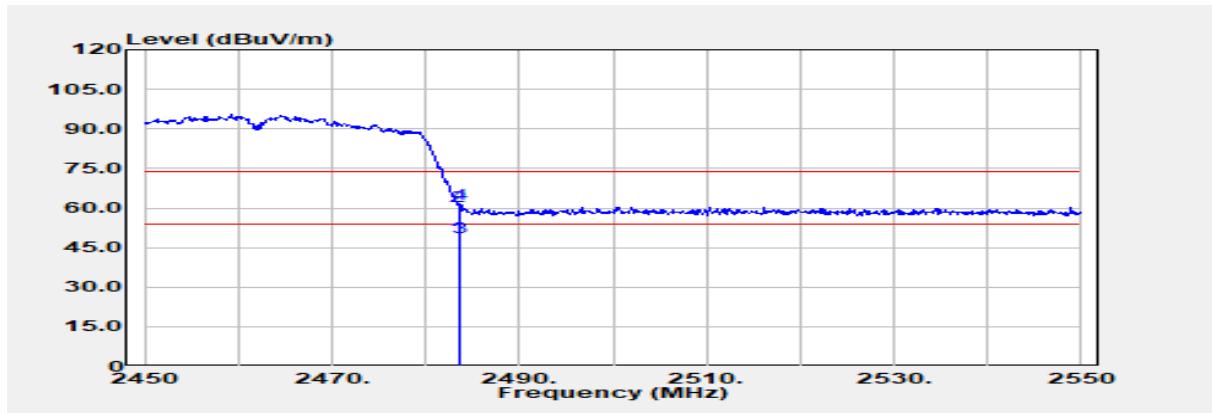
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ac40 Test Date :2021-01-12
Test Frequency :2462 MHz Temp./Humi. :22.1/65
Test Mode :BE CH 11 Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	@3m dB μ V/m	
2483.500	Average	57.11	-8.12	48.99	54.00	-5.01
2483.500	Peak	68.98	-8.12	60.86	74.00	-13.14
2483.700	Average	57.02	-8.12	48.90	54.00	-5.10
2483.700	Peak	69.78	-8.12	61.66	74.00	-12.34

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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ac40	Test Date	:2021-01-12
Test Frequency	:2462 MHz	Temp./Humi.	:22.1/65
Test Mode	:BE CH 11	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual		Limit @3m	Margin
				PK	QPSK		
				dB μ V	dB	dB μ V/m	dB
2483.500	Average	56.26	-8.12	48.14	54.00	54.00	-5.86
2483.500	Peak	68.43	-8.12	60.31	74.00	74.00	-13.69
2532.300	Average	55.68	-7.99	47.68	54.00	54.00	-6.32
2532.300	Peak	68.80	-7.99	60.81	74.00	74.00	-13.19

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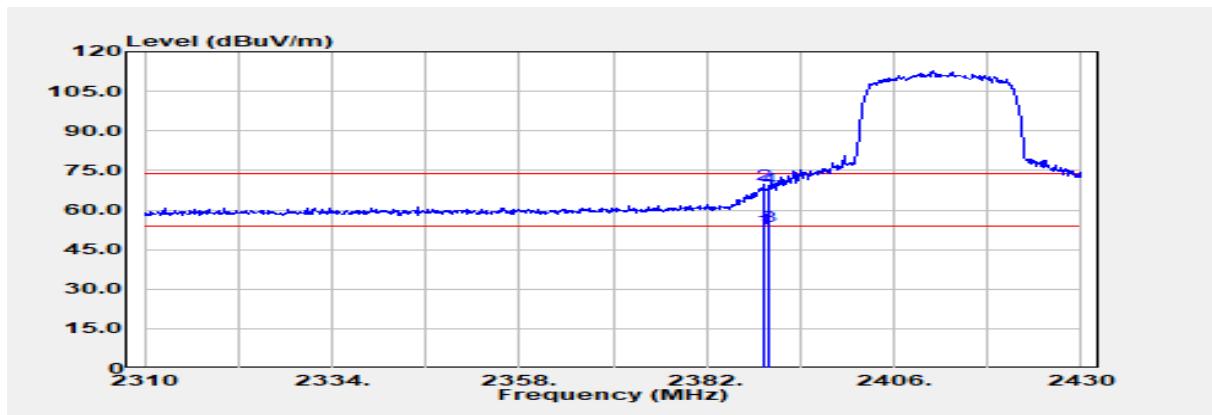
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ax20	Test Date	:2021-01-20
Test Frequency	:2412 MHz	Temp./Humi.	:21.0/62
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2389.320	Average	61.16	-7.97	53.20	54.00	-0.80
2389.320	Peak	77.66	-7.97	69.69	74.00	-4.31
2390.000	Average	61.81	-7.99	53.82	54.00	-0.18
2390.000	Peak	76.58	-7.99	68.60	74.00	-5.40

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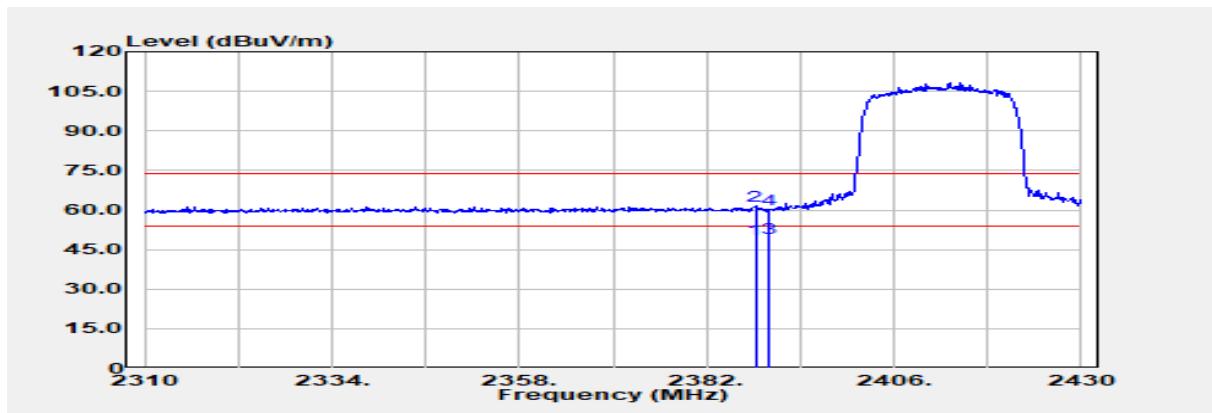
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ax20 Test Date :2021-01-21
Test Frequency :2412 MHz Temp./Humi. : 20.8/63
Test Mode :BE CH LOW Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit @3m dB μ V/m	Margin dB
				FS	dB μ V/m		
2388.240	Average	56.92	-7.93	48.98	54.00	54.00	-5.02
2388.240	Peak	69.66	-7.93	61.73	74.00	74.00	-12.27
2390.000	Average	57.25	-7.99	49.27	54.00	54.00	-4.73
2390.000	Peak	68.15	-7.99	60.16	74.00	74.00	-13.84

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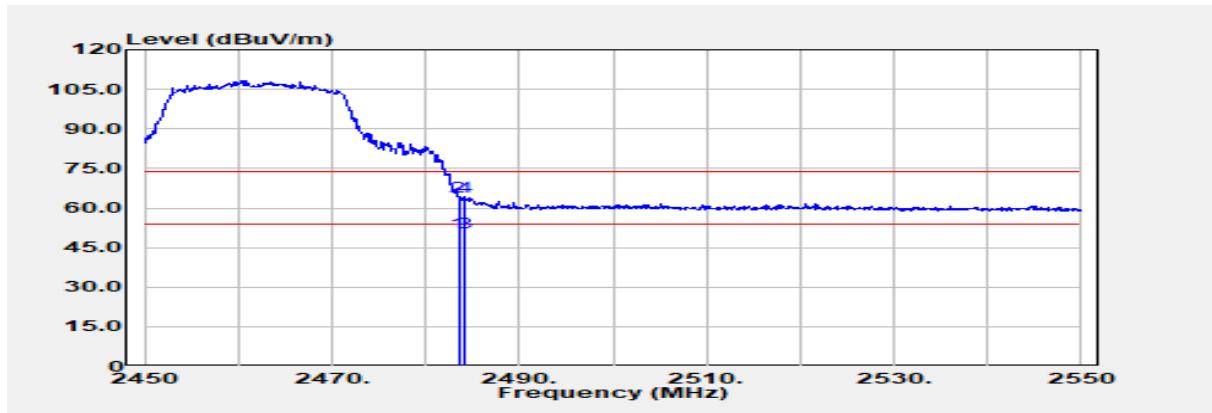
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ax20 Test Date :2021-01-14
Test Frequency :2462 MHz Temp./Humi. :21.3/59
Test Mode :BE CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	58.80	-8.12	50.68	54.00	-3.32
2483.500	Peak	72.26	-8.12	64.14	74.00	-9.86
2484.200	Average	58.64	-8.12	50.52	54.00	-3.48
2484.200	Peak	72.45	-8.12	64.33	74.00	-9.67

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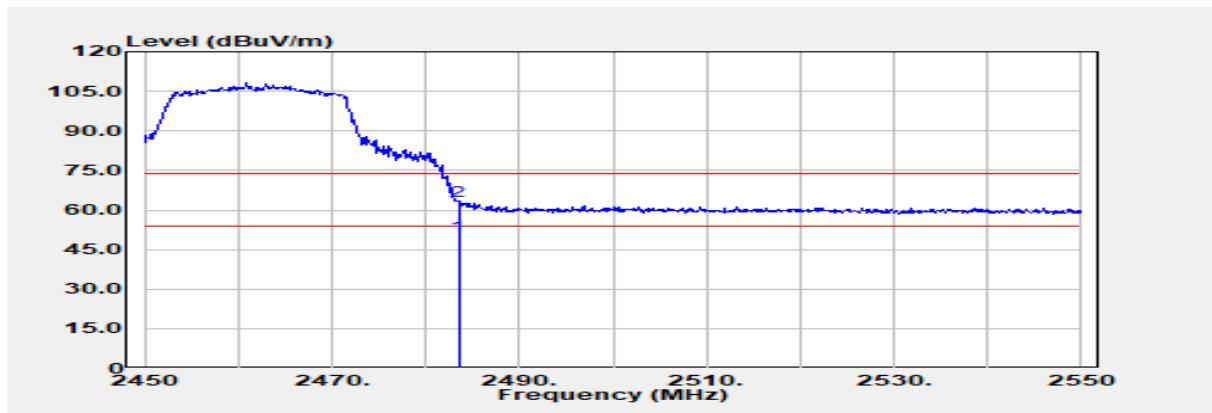
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ax20 Test Date :2021-01-14
Test Frequency :2462 MHz Temp./Humi. :21.3/59
Test Mode :BE CH HIGH Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	Limit @3m dB μ V/m	
2483.500	Average	58.41	-8.12	50.29	54.00	-3.71
2483.500	Peak	71.58	-8.12	63.46	74.00	-10.54

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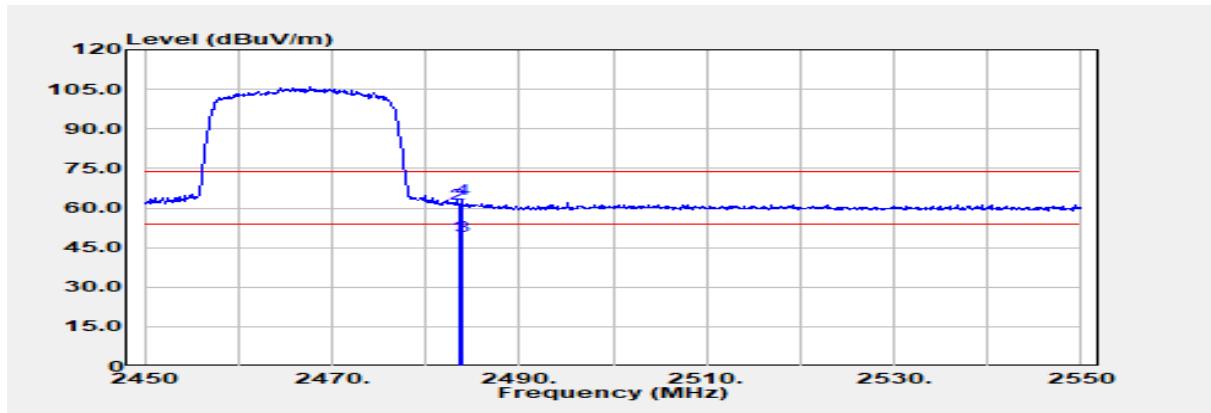
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ax20	Test Date	:2021-01-20
Test Frequency	:2467 MHz	Temp./Humi.	:21.0/62
Test Mode	:BE CH 12	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	57.70	-8.12	49.58	54.00	-4.42
2483.500	Peak	69.62	-8.12	61.50	74.00	-12.50
2483.900	Average	57.57	-8.12	49.45	54.00	-4.55
2483.900	Peak	71.66	-8.12	63.54	74.00	-10.46

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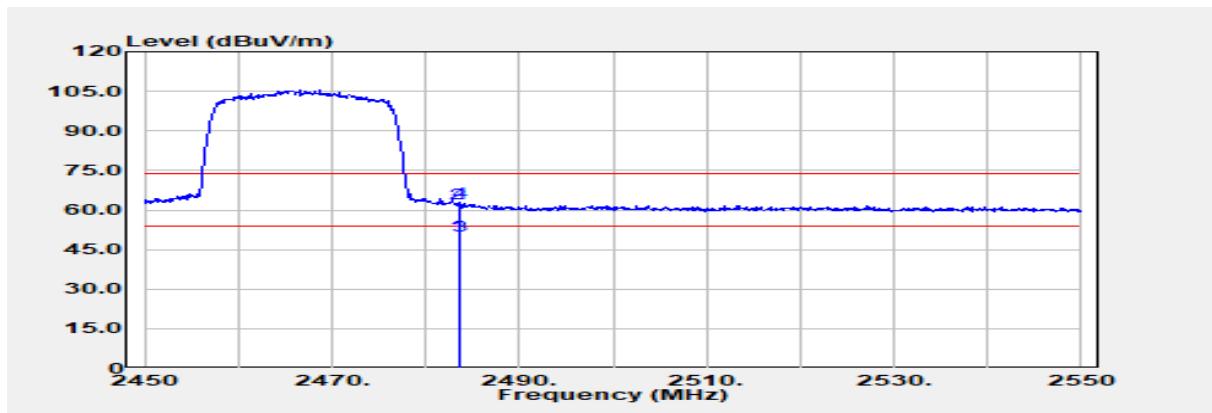
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ax20 Test Date :2021-01-21
Test Frequency :2467 MHz Temp./Humi. : 20.8/63
Test Mode :BE CH 12 Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2483.500	Average	58.50	-8.12	50.38	54.00	-3.62
2483.500	Peak	70.41	-8.12	62.29	74.00	-11.71
2483.700	Average	58.30	-8.12	50.18	54.00	-3.82
2483.700	Peak	70.93	-8.12	62.81	74.00	-11.19

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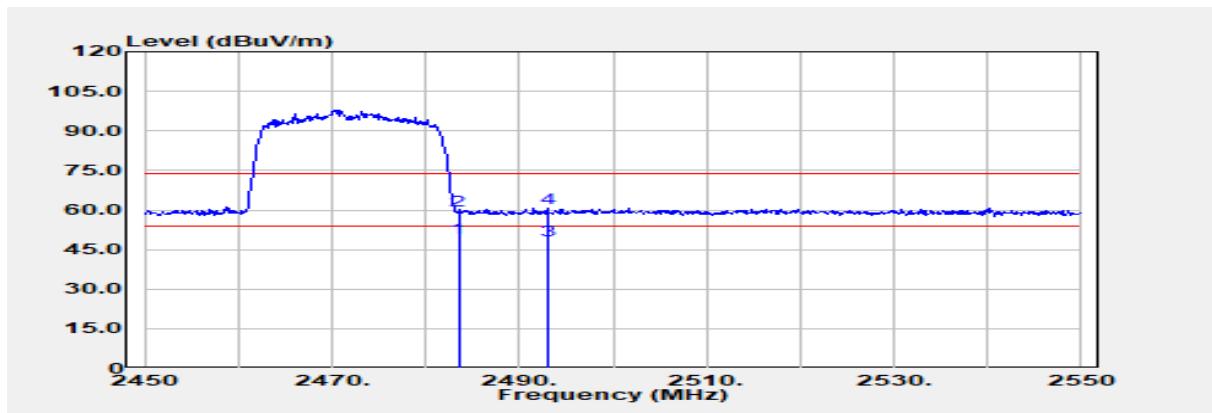
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ax20	Test Date	:2021-01-14
Test Frequency	:2472 MHz	Temp./Humi.	:21.3/59
Test Mode	:BE CH 13	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2483.500	Average	57.33	-8.12	49.21	54.00	-4.79
2483.500	Peak	67.85	-8.12	59.73	74.00	-14.27
2493.000	Average	56.38	-7.97	48.40	54.00	-5.60
2493.000	Peak	68.75	-7.97	60.77	74.00	-13.23

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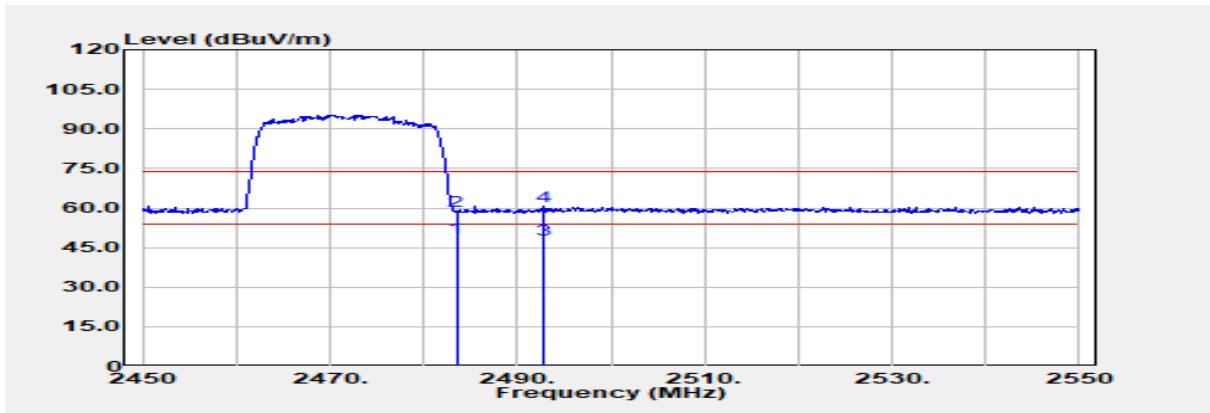
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ax20 Test Date :2021-01-14
Test Frequency :2472 MHz Temp./Humi. :21.3/59
Test Mode :BE CH 13 Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	57.10	-8.12	48.98	54.00	-5.02
2483.500	Peak	67.02	-8.12	58.90	74.00	-15.10
2492.700	Average	55.84	-7.99	47.85	54.00	-6.15
2492.700	Peak	68.79	-7.99	60.80	74.00	-13.20

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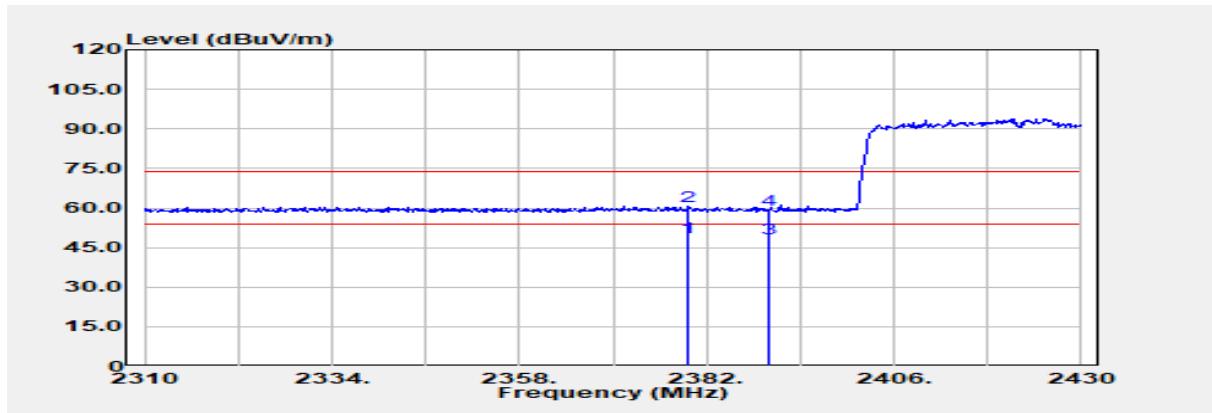
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2021-01-14
Test Frequency	:2422 MHz	Temp./Humi.	:21.3/59
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB _{BuV}	Factor dB	Actual		Limit @3m dB _{BuV/m}	Margin dB
				FS	dB _{BuV/m}		
2379.720	Average	56.42	-7.69	48.74	54.00	54.00	-5.26
2379.720	Peak	68.39	-7.69	60.70	74.00	74.00	-13.30
2390.000	Average	56.64	-7.99	48.65	54.00	54.00	-5.35
2390.000	Peak	67.12	-7.99	59.13	74.00	74.00	-14.87

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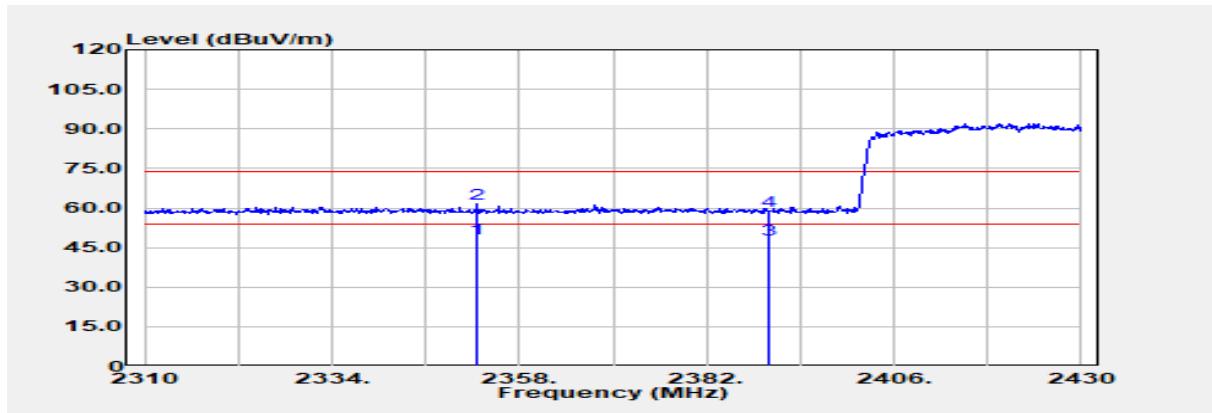
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Report Number :E2/2020/C0072
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-14
 Temp./Humi. :21.3/59
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	Limit @3m dB μ V/m	
2352.600	Average	56.15	-7.87	48.28	54.00	-5.72
2352.600	Peak	69.32	-7.87	61.45	74.00	-12.55
2390.000	Average	56.00	-7.99	48.02	54.00	-5.98
2390.000	Peak	66.94	-7.99	58.95	74.00	-15.05

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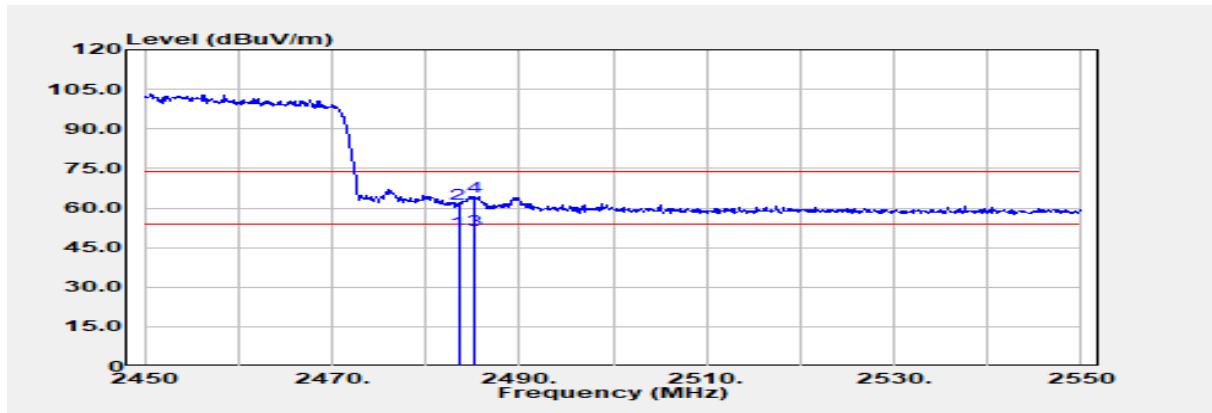
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2021-01-14
Test Frequency	:2452 MHz	Temp./Humi.	:21.3/59
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	59.19	-8.12	51.07	54.00	-2.93
2483.500	Peak	69.75	-8.12	61.63	74.00	-12.37
2485.300	Average	59.64	-8.13	51.51	54.00	-2.49
2485.300	Peak	72.47	-8.13	64.34	74.00	-9.66

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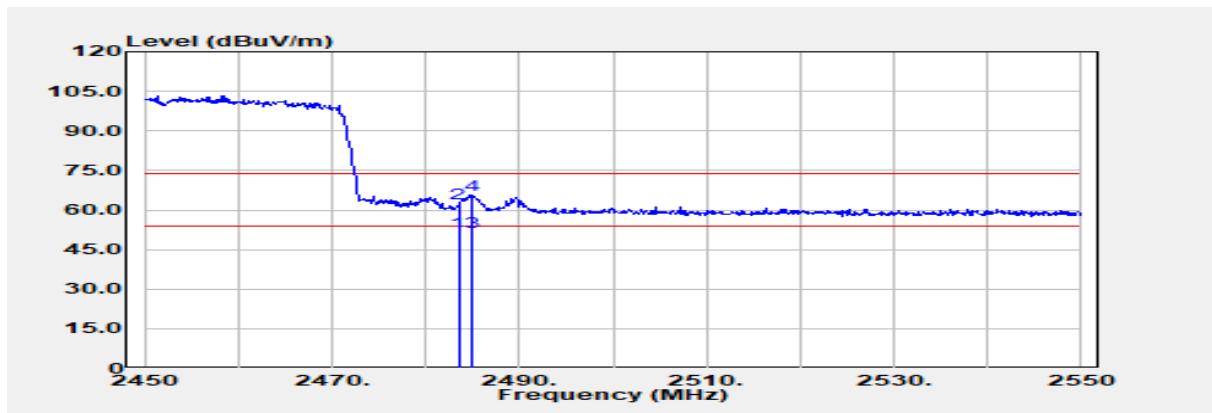
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ax40 Test Date :2021-01-14
Test Frequency :2452 MHz Temp./Humi. :21.3/59
Test Mode :BE CH HIGH Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	@3m dB μ V/m	
2483.500	Average	59.67	-8.12	51.55	54.00	-2.45
2483.500	Peak	70.48	-8.12	62.36	74.00	-11.64
2485.000	Average	59.87	-8.13	51.75	54.00	-2.25
2485.000	Peak	74.01	-8.13	65.88	74.00	-8.12

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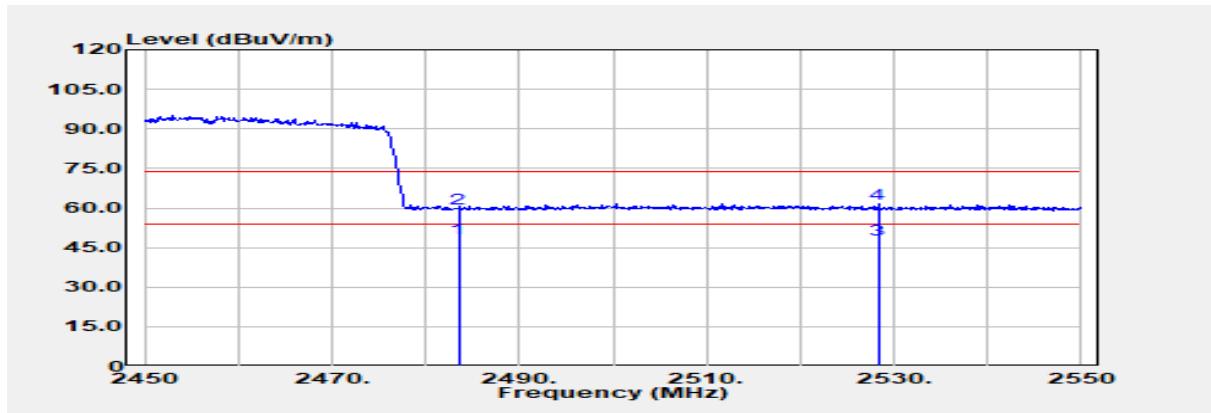
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2021-01-20
Test Frequency	:2457 MHz	Temp./Humi.	:21.0/62
Test Mode	:BE CH 10	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
2483.500	Average	56.51	-8.12	48.39	54.00	-5.61
2483.500	Peak	67.95	-8.12	59.84	74.00	-14.16
2528.300	Average	56.09	-7.97	48.12	54.00	-5.88
2528.300	Peak	69.53	-7.97	61.55	74.00	-12.45

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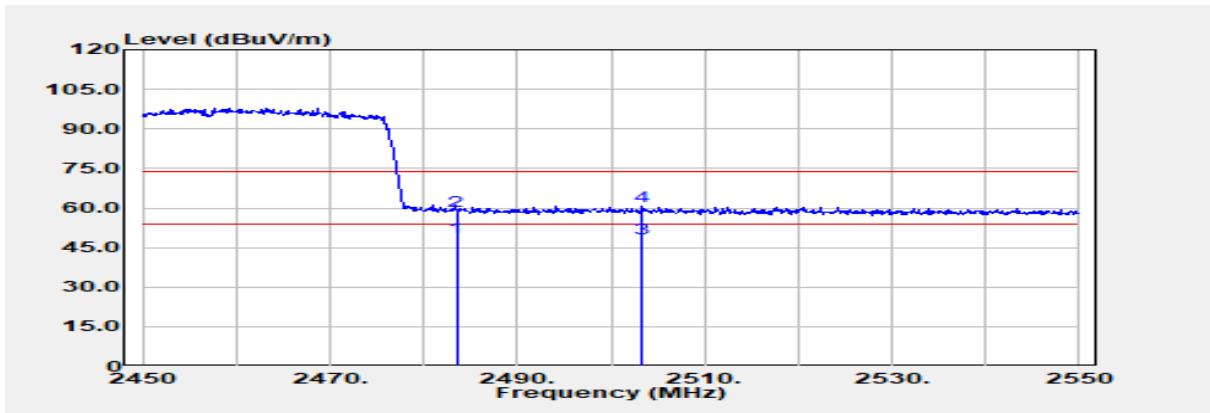
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ax40 Test Date :2021-01-21
Test Frequency :2457 MHz Temp./Humi. : 20.8/63
Test Mode :BE CH 10 Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	57.18	-8.12	49.06	54.00	-4.94
2483.500	Peak	66.97	-8.12	58.85	74.00	-15.15
2503.400	Average	56.27	-7.70	48.57	54.00	-5.43
2503.400	Peak	68.35	-7.70	60.65	74.00	-13.35

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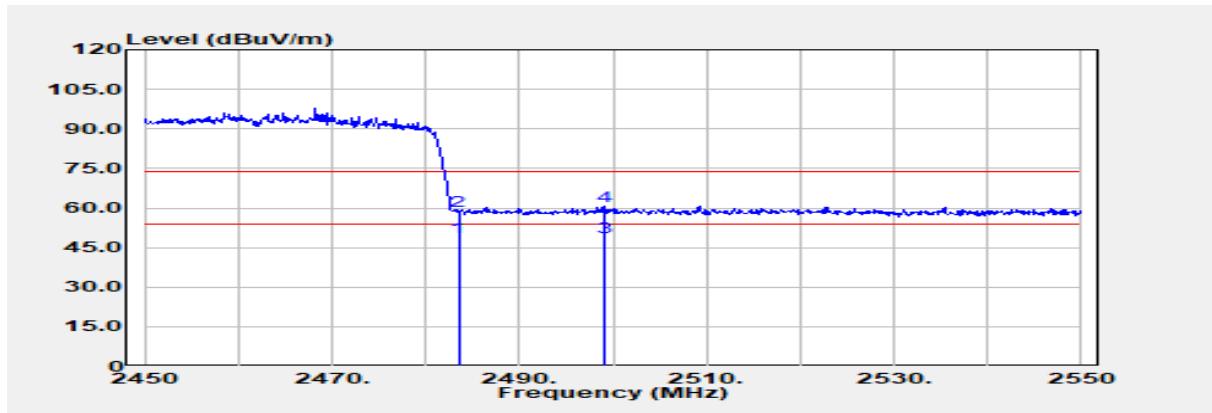
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Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2021-01-14
Test Frequency	:2462 MHz	Temp./Humi.	:21.3/59
Test Mode	:BE CH 11	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading	Factor	Actual		Margin dB
				FS	@3m dBuV/m	
PK/QP/AV	dB μ V	dB	dB	dB μ V/m	dB μ V/m	
2483.500	Average	57.06	-8.12	48.94	54.00	-5.06
2483.500	Peak	66.89	-8.12	58.77	74.00	-15.23
2499.000	Average	56.74	-7.62	49.12	54.00	-4.88
2499.000	Peak	68.30	-7.62	60.68	74.00	-13.32

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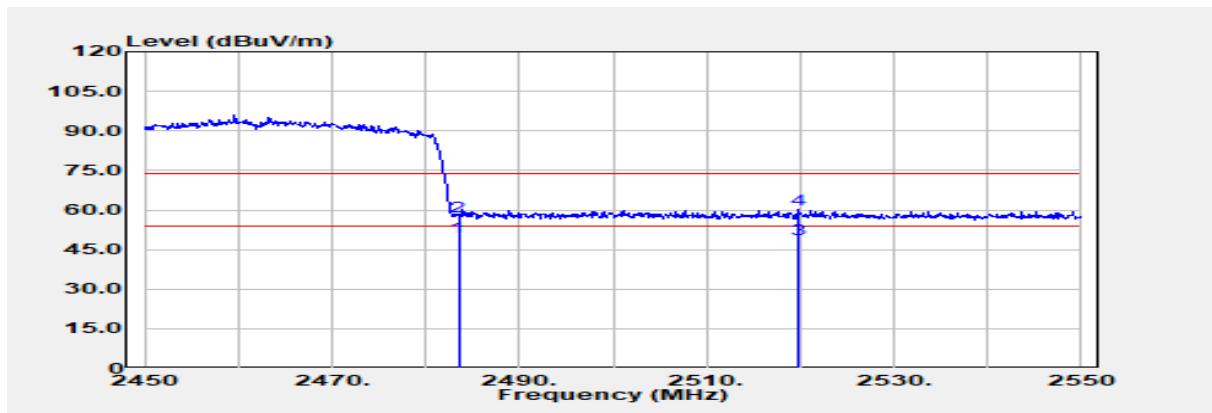
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11ax40 Test Date :2021-01-14
Test Frequency :2462 MHz Temp./Humi. :21.3/59
Test Mode :BE CH 11 Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.500	Average	58.06	-8.12	49.94	54.00	-4.06
2483.500	Peak	65.43	-8.12	57.31	74.00	-16.69
2519.800	Average	56.40	-7.70	48.70	54.00	-5.30
2519.800	Peak	68.09	-7.70	60.40	74.00	-13.60

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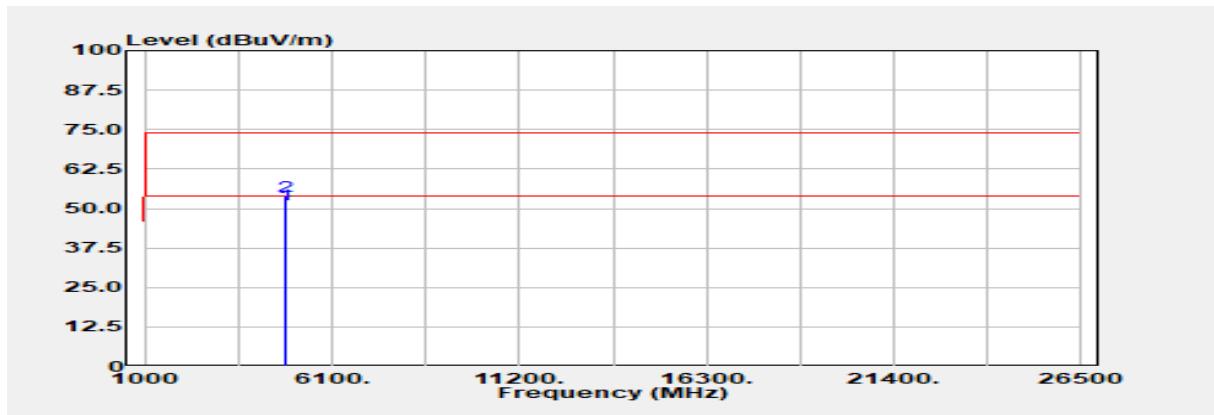
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7.7.2 Above 1GHz Emission:

Report Number	:E2/2020/C0072	Test Site	:966 Chamber D
Operation Mode	:802.11b	Test Date	:2021-01-13
Test Frequency	:2412 MHz	Temp./Humi.	:19.6/62
Test Mode	:TX CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Limit dB μ V/m	Margin dB
				FS	@3m		
4824.000	Average	54.63	-3.13	51.50	54.00	-2.50	
4824.000	Peak	56.91	-3.13	53.78	74.00	-20.22	

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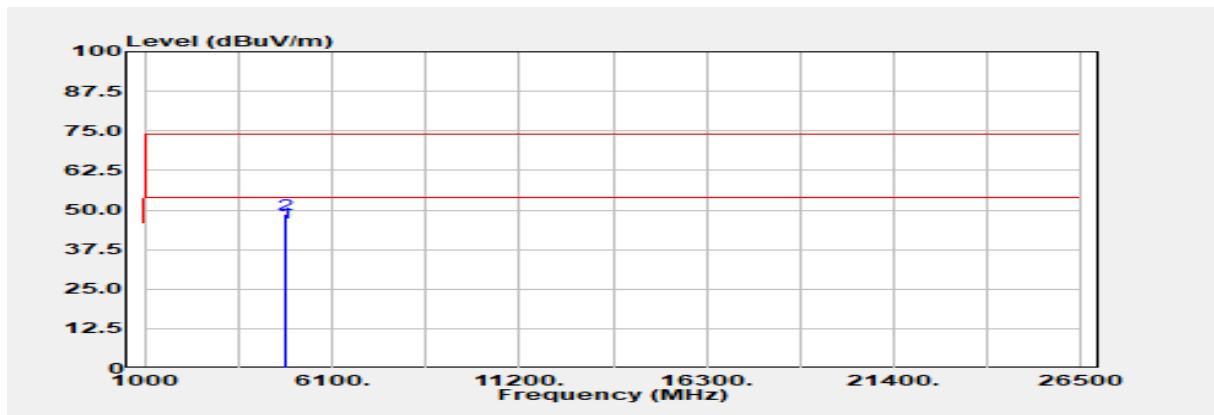
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11b Test Date :2021-01-13
Test Frequency :2412 MHz Temp./Humi. :19.6/62
Test Mode :TX CH LOW Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB _B uV	Factor dB	Actual		Margin dB
				FS	@3m dB _B uV/m	
4824.000	Average	49.14	-3.13	46.01	54.00	-7.99
4824.000	Peak	51.95	-3.13	48.82	74.00	-25.18

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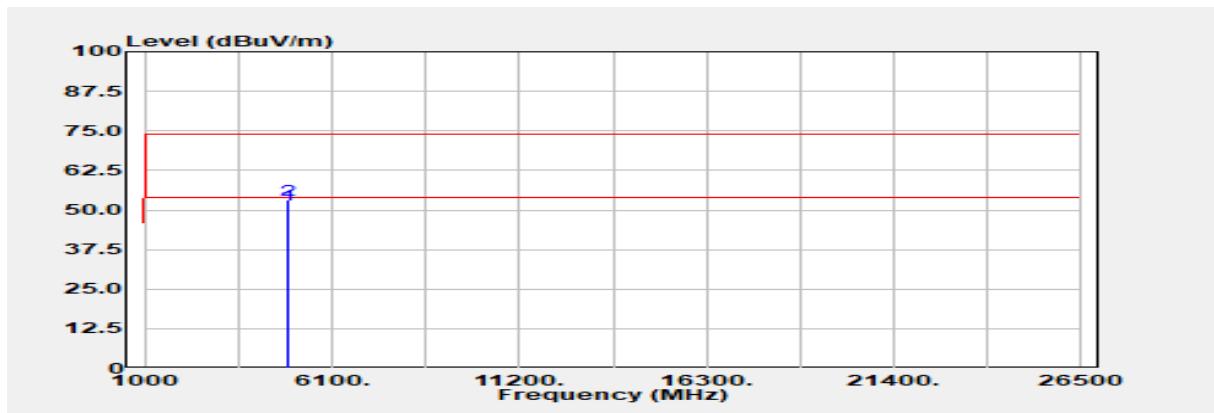
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11b Test Date :2021-01-13
Test Frequency :2437 MHz Temp./Humi. :19.6/62
Test Mode :TX CH MID Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB _B uV	Factor dB	Actual		Margin dB
				FS	@3m dB _B uV/m	
4874.000	Average	54.68	-3.00	51.68	54.00	-2.32
4874.000	Peak	56.24	-3.00	53.25	74.00	-20.75

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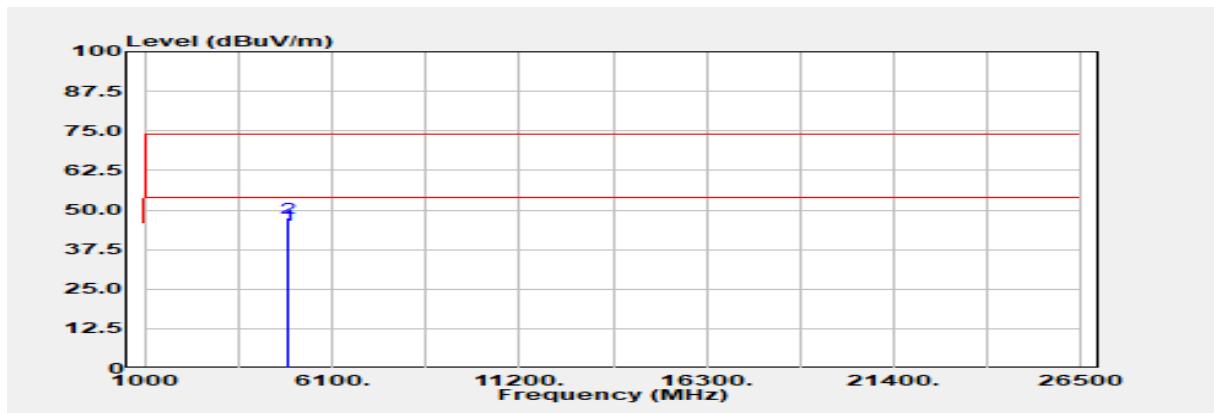
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Report Number :E2/2020/C0072
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-13
 Temp./Humi. :19.6/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB _B uV	Factor dB	Actual		Margin dB
				FS	Limit @3m dB _B uV/m	
4874.000	Average	48.22	-3.00	45.22	54.00	-8.78
4874.000	Peak	50.61	-3.00	47.61	74.00	-26.39

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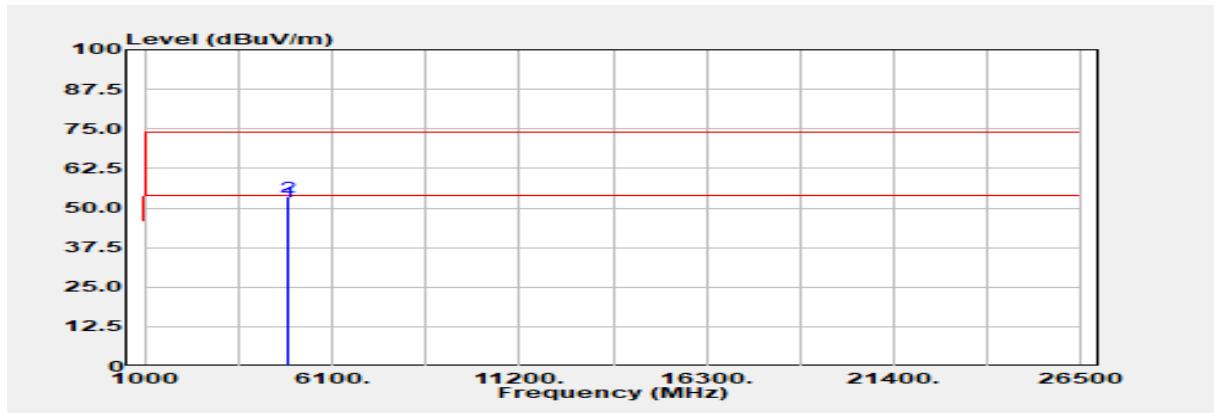
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11b Test Date :2021-01-13
Test Frequency :2462 MHz Temp./Humi. :19.6/62
Test Mode :TX CH HIGH Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB _B uV	Factor dB	Actual		Margin dB
				FS	@3m dB _B uV/m	
4924.000	Average	55.20	-3.21	51.99	54.00	-2.01
4924.000	Peak	56.70	-3.21	53.49	74.00	-20.51

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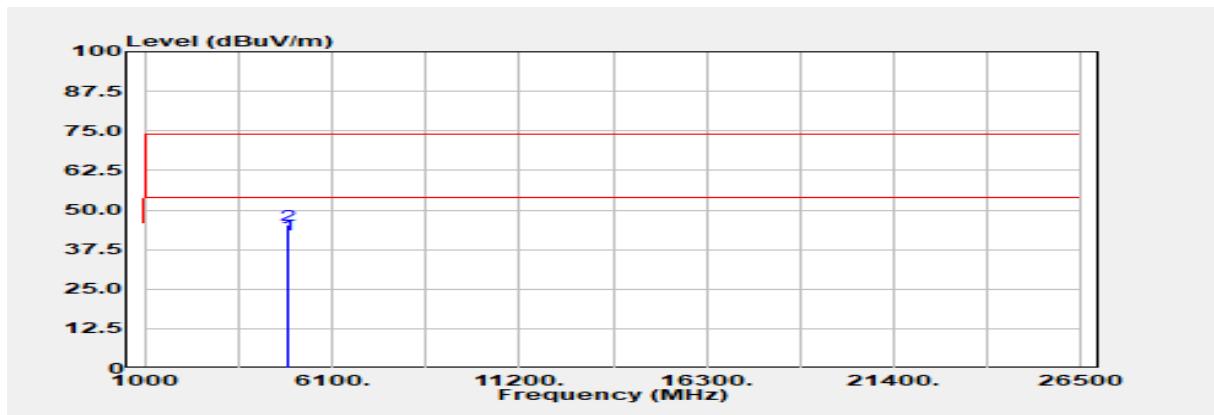
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Report Number :E2/2020/C0072
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-13
 Temp./Humi. :19.6/62
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS	@3m dB μ V/m	
4924.000	Average	45.50	-3.21	42.29	54.00	-11.71
4924.000	Peak	48.66	-3.21	45.45	74.00	-28.55

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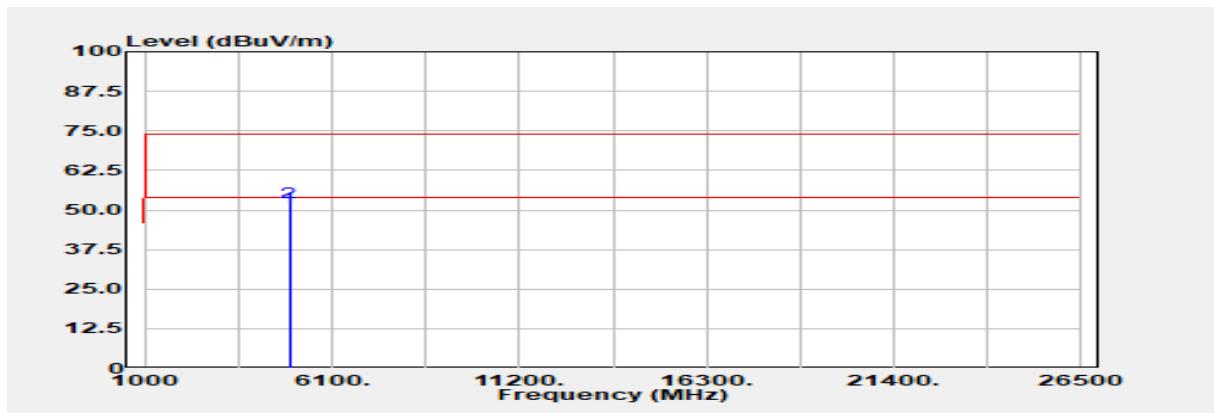
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :E2/2020/C0072
 Operation Mode :802.11b
 Test Frequency :2467 MHz
 Test Mode :TX CH 12
 EUT Pol :NB Plan
 Test Site :966 Chamber D
 Test Date :2021-01-13
 Temp./Humi. :19.6/62
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual		Margin dB
				FS dB μ V/m	Limit @3m dB μ V/m	
4934.000	Average	53.98	-3.06	50.92	54.00	-3.08
4934.000	Peak	55.40	-3.06	52.33	74.00	-21.67

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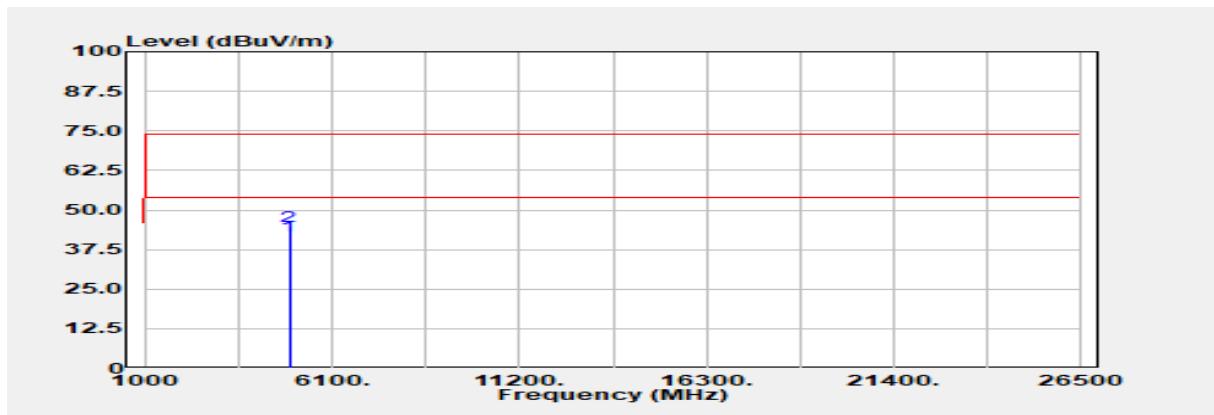
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Operation Mode :802.11b Test Date :2021-01-13
Test Frequency :2467 MHz Temp./Humi. :19.6/62
Test Mode :TX CH 12 Antenna Pol. :Horizontal
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level	Factor	Actual		Margin dB
				FS	@3m	
4934.000	Average	45.12	-3.06	42.06	54.00	-11.94
4934.000	Peak	48.01	-3.06	44.95	74.00	-29.05

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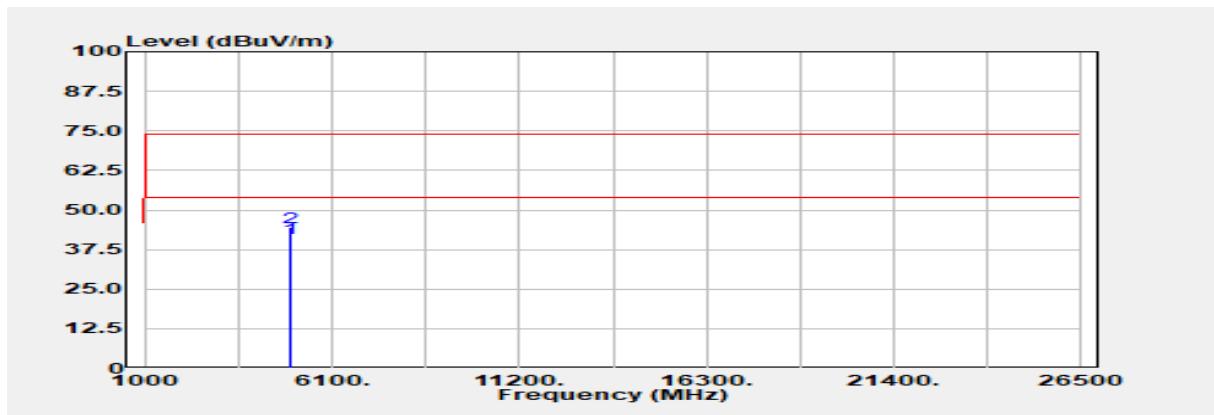
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Report Number :E2/2020/C0072 Test Site :966 Chamber D
Operation Mode :802.11b Test Date :2021-01-13
Test Frequency :2472 MHz Temp./Humi. :19.6/62
Test Mode :TX CH 13 Antenna Pol. :Vertical
EUT Pol :NB Plan Engineer :Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4944.000	Average	43.87	-2.58	41.29	54.00	-12.71
4944.000	Peak	47.25	-2.58	44.67	74.00	-29.33

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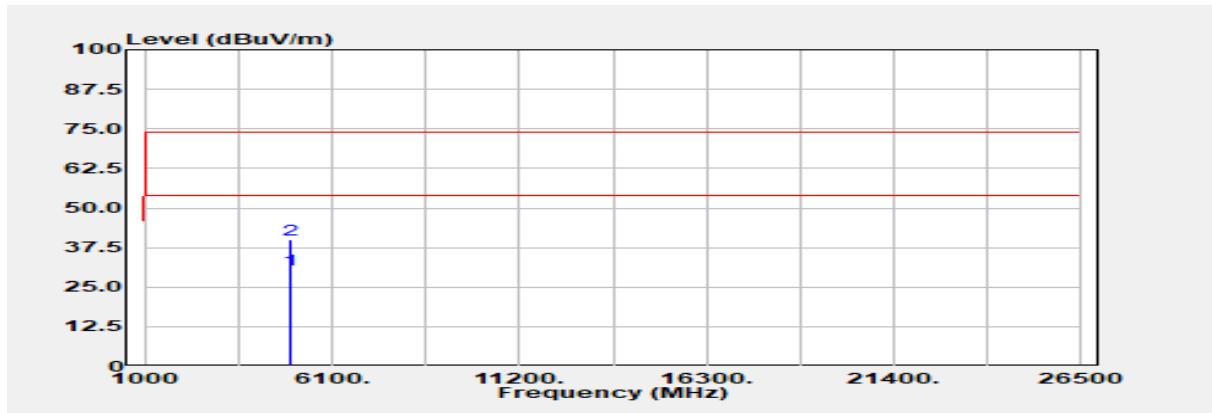
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Operation Mode	:802.11b	Test Date	:2021-01-13
Test Frequency	:2472 MHz	Temp./Humi.	:19.6/62
Test Mode	:TX CH 13	Antenna Pol.	:Horizontal
EUT Pol	:NB Plan	Engineer	:Andy Wang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4944.000	Average	33.25	-2.58	30.67	54.00	-23.33
4944.000	Peak	42.41	-2.58	39.83	74.00	-34.17

~ End of Report ~

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