

# RADIO TEST REPORT

## FCC 47 CFR PART 15 SUBPART C

### Class II Permissive Change

<b>Test Standard</b>	<b>FCC Part 15.247</b>
<b>Product name</b>	<b>Indoor IP Camera</b>
<b>Brand Name</b>	<b>Vivint</b>
<b>Model No.</b>	<b>CM01</b>
<b>Test Result</b>	<b>Pass</b>
<b>Statements of Conformity</b>	<b>Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.</b>

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

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

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Approved by:



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Kevin Tsai  
Deputy Manager

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

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	February 25, 2020	Initial Issue <small>Note.(01)</small>	ALL	Allison Chen
01	June 23, 2020	See the following note Rev.(01)	ALL	Allison Chen
02	June 29, 2021	See the following note Rev.(02)	ALL	Allison Chen

**Note.(01)**

1. Applicant change pcb item for 2nd source. Verify radiated emission test data below 1GHz and above 1GHz in section 4.
2. The above test method for those measurements are in accordance with IC RSS-247 refer to T160216S01, please see as below: duty cycle, 6dB bandwidth, 99% bandwidth, maximum and average output power, power density, conducted spurious emission, restricted bandedges and conduction emission.
3. Update standard to RSS-247 Issue 2 and RSS-GEN issue 5.
4. Other information, please refer to T160216S01 and this test report.

**Rev.(01)**

1. Applicant change the 2nd source of DDR. Verify radiated emission test data below 1GHz in section 4.
2. According to customer requested, we reserve original test data.
3. Other information, please refer to T191225W01 and this test report.

**Rev.(02)**

1. Applicant added DDR of EUT, please refer to the following table:

DDR-1	DDR-2
Winbon/W632GU6NB-09/128M	Winbon/W634GU6MB-12/256M
Nanya/NT5CC128M16JR-EK/128M	Nanya/ NT5CC256M16ER-EK/256M
Nanya/NT5CC128M16JR-EK/128M	Skhynix/ H5TC4G63EFR-RDA /256M

Type	Vendor	Part number
Video Processing	Geo Semiconductor Inc	GC6500
DC/DC Regulator	Silergy	SY8030DEC
Cystal	JENJAAN QUARTEK	NXL40.000A7105F-KAB6-2
Inductor	Shenzhen Sunlord Electronics Co., Ltd.	SDCL1005-M01(With Mark)Series
Magnet	HONGKONG CARRIER INTERNATIONAL TRADE CO., LIMITED	9424TW388000G

- The above combination is in FCC Part 15B, pe-test, the worst mode is used as a test sample.
2. Change RF IC crystal. Re-test radiated emission, conducted power and conduction for class II permissive change.
3. Other information, please refer to the T200529W01 and this test report.

## Table of contents

1.	GENERAL INFORMATION.....	4
1.1	EUT INFORMATION.....	4
1.2	EUT CHANNEL INFORMATION.....	5
1.3	ANTENNA INFORMATION.....	5
1.4	MEASUREMENT UNCERTAINTY.....	6
1.5	FACILITIES AND TEST LOCATION.....	6
1.6	INSTRUMENT CALIBRATION.....	7
1.7	SUPPORT AND EUT ACCESSORIES EQUIPMENT.....	8
1.8	TEST METHODOLOGY AND APPLIED STANDARDS.....	8
2.	TEST SUMMARY.....	9
3.	DESCRIPTION OF TEST MODES.....	10
3.1	THE WORST MODE OF OPERATING CONDITION.....	10
3.2	THE WORST MODE OF MEASUREMENT.....	11
4.	AC POWER LINE CONDUCTED EMISSION.....	12
5.	OUTPUT POWER MEASUREMENT.....	15
6.	RADIATION BANDEDGE AND SPURIOUS EMISSION.....	17
	APPENDIX 1 - PHOTOGRAPHS OF EUT	

## 1. GENERAL INFORMATION

### 1.1 EUT INFORMATION

Applicant	Vivint, Inc. 4931 N. 300 W. Provo, Utah 84604 United States
Manufacturer	ALPHA NETWORKS (DONGGUAN) CO., LTD. Xin An District, Chang'an Town, Dongguan City, Guangdong Province, P.R. China
Equipment	Indoor IP Camera
Model Name	CM01
Model Discrepancy	N/A
Trade Name	Vivint
Received Date	April 29, 2021
Date of Test	May 25 ~ June 11, 2021
Power Supply	Power from Adapter. Shenzhen Honor Electronic Co., Ltd / ADS-26FSG-12 12018EPCU I/P: 100-240Vac, 50/60Hz, Max. 0.7A O/P: 12Vdc, 1.5A
S/N	886AE33736B9

**Remark:**

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

## 1.2 EUT CHANNEL INFORMATION

Frequency Range	802.11b/g/n HT 20: 2412MHz ~ 2462MHz 802.11n HT 40: 2422MHz ~ 2452MHz
Modulation Type	1. IEEE 802.11b mode: DSSS (CCK, DQPSK, DBPSK) 2. IEEE 802.11g mode: OFDM (64QAM, 16QAM, QPSK, BPSK) 3. IEEE 802.11n HT 20 MHz mode : OFDM (64QAM, 16QAM, QPSK, BPSK) 4. IEEE 802.11n HT 40 MHz mode : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of channel	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 MHz mode : 11 Channels 4. IEEE 802.11n HT 40 MHz mode : 7 Channels

### Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
<input type="checkbox"/> 1 MHz or less	1	Middle
<input type="checkbox"/> 1 MHz to 10 MHz	2	1 near top and 1 near bottom
<input checked="" type="checkbox"/> More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

## 1.3 ANTENNA INFORMATION

Antenna Type	FPC Antenna x 1, Antenna 1(Chain 0) PIFA Antenna x 1, Antenna 2(Chain 1)
Antenna Gain	Antenna 1(Chain 0), Antenna Gain: 2.61dBi Antenna 2(Chain 1), Antenna Gain: 2.46dBi
Antenna Connector	i-pex

### Note:

Directional gain =  $10 \log [ 10^{\text{Ant1}/20} + 10^{\text{Ant2}/20} + \dots + 10^{\text{AntN}/20} ] / N_{\text{ANT}}$  dBi

## 1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

**Remark:**

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

## 1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Jack Chen	-
Radiation	Ray Li	-
RF Conducted	Lance Chen	-

**Remark:** The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

## 1.6 INSTRUMENT CALIBRATION

3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/08/2021	02/07/2022
Bilog Antenna	Sunol Sciences	JB3	A030105	07/24/2020	07/23/2021
Horn Antenna	ETS LINDGREN	3116	00026370	12/11/2020	12/10/2021
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/24/2021	02/23/2022
Coaxial Cable	EMCI	EMC105	190914+327109/4	09/19/2020	09/18/2021
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/09/2020	12/08/2021
K Type Cable	Huber+Suhner	SUCOFLEX 102	22470/2	12/09/2020	12/08/2021
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	09/30/2020	09/29/2021
Loop Ant	COM-POWER	AL-130	121051	04/07/2021	04/06/2022
Pre-Amplifier	EMEC	EM330	060609	02/24/2021	02/23/2022
Pre-Amplifier	HP	8449B	3008A00965	12/25/2020	12/24/2021
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/02/2020	09/01/2021
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	07/24/2020	07/23/2021
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180419c				

Conducted Emission Test Room #B					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
CABLE	EMCI	CFD300-NL	CERF	06/29/2020	06/28/2021
EMI Test Receiver	R&S	ESCI	100064	07/17/2020	07/16/2021
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2020	02/12/2021
Software	EZ-EMC(CCS-3A1-CE)				

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Woken	WC12	CC003	06/29/2020	06/28/2021
Coaxial Cable	Woken	WC12	CC001	06/29/2020	06/28/2021
Power Meter	Anritsu	ML2496A	S0013633	11/06/2020	11/05/2021
Power Seneor	Anritsu	MA2491A	1207368	11/06/2020	11/05/2021
Power Seneor	Anritsu	MA2491A	1207365	11/06/2020	11/05/2021
Software	N/A				

**Remark:** Each piece of equipment is scheduled for calibration once a year.

## 1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Support Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(L)	Toshiba	PORTEGE R30-A	N/A	PD97260H

## 1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247.



## 2. TEST SUMMARY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4	AC Conducted Emission	Pass
15.247(a)(2)	-	6 dB Bandwidth	N/A
-	-	Occupied Bandwidth (99%)	N/A
15.247(b)(3)	5	Output Power Measurement	Pass
15.247(e)	-	Power Spectral Density	N/A
15.247(d)	-	Conducted Band Edge	N/A
15.247(d)	-	Conducted Emission	N/A
15.247(d)	6	Radiation Band Edge	Pass
15.247(d)	6	Radiation Spurious Emission	Pass

### 3. DESCRIPTION OF TEST MODES

#### 3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11n HT20 mode :MCS8 IEEE 802.11n HT40 mode :MCS8
Test Channel Frequencies	<b>IEEE 802.11b mode :</b> 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz <b>IEEE 802.11g mode :</b> 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz <b>IEEE 802.11n HT20 mode :</b> 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz <b>IEEE 802.11n HT40 mode :</b> 1. Lowest Channel : 2422MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2452MHz
Operation Transmitter	IEEE 802.11b mode :2T2R IEEE 802.11g mode : 2T2R IEEE 802.11n HT20 mode : 2T2R IEEE 802.11n HT40 mode : 2T2R

**Remark:**

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

### 3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4
Worst Position	<input type="checkbox"/> Placed in fixed position. <input checked="" type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane) <input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane) <input type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

**Remark:**

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report
3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.

## 4. AC POWER LINE CONDUCTED EMISSION

### 4.1. Test Limit

According to §15.207(a)(2),

Frequency Range (MHz)	Limits(dB $\mu$ V)	
	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

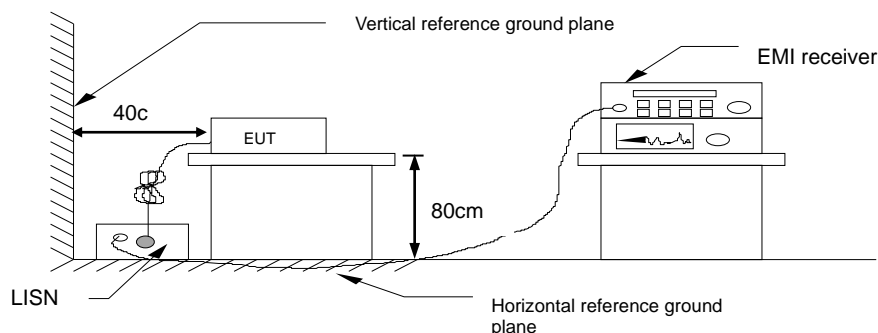
\* Decreases with the logarithm of the frequency.

### 4.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

### 4.3 Test Setup



### 4.4 Test Result

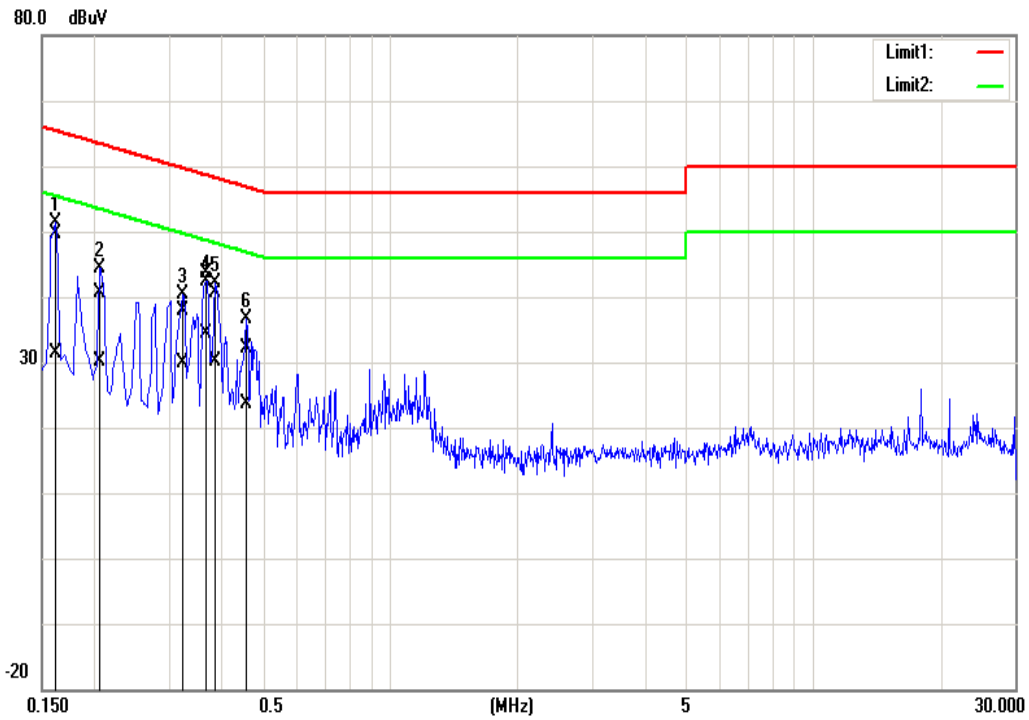
**PASS**

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

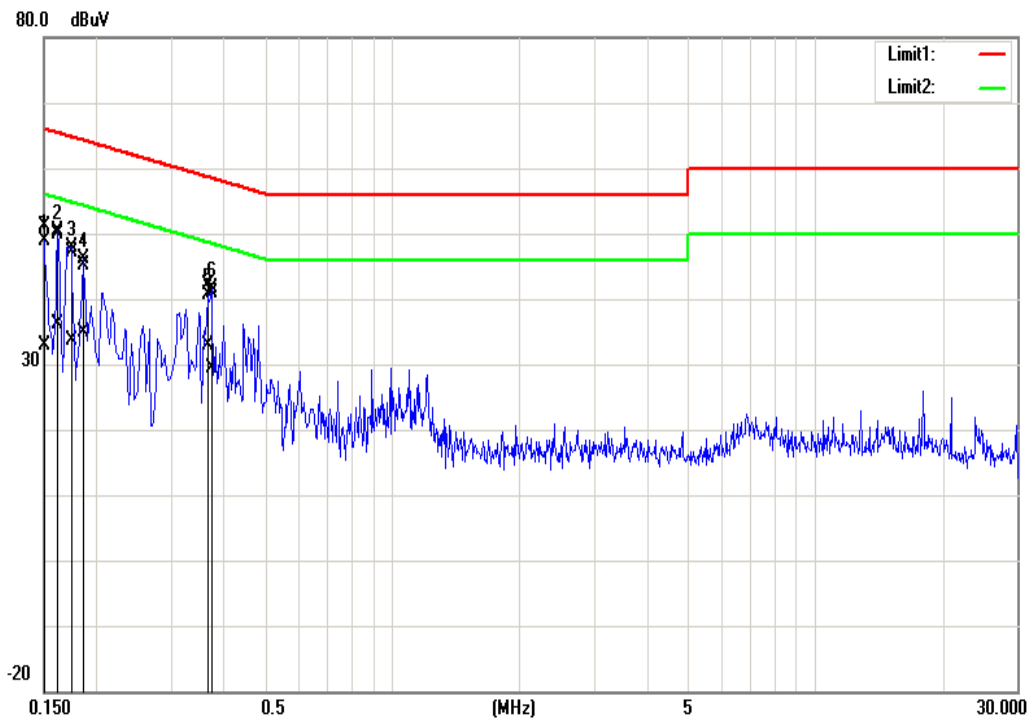
### Test Data

Test Mode:	Mode 1	Temp/Hum	24.3(°C)/ 47.6%RH
Phase:	Line	Test Date	June 11, 2021
Test Voltage:	AC 120V / 60Hz	Test Engineer	Jack Chen



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (d uV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1620	39.41	21.00	10.29	49.70	31.29	65.36	55.36	-15.66	-24.07	Pass
0.2060	30.43	19.91	10.29	40.72	30.20	63.37	53.37	-22.65	-23.17	Pass
0.3220	27.71	19.70	10.29	38.00	29.99	59.66	49.66	-21.66	-19.67	Pass
0.3660	33.44	24.21	10.29	43.73	34.50	58.59	48.59	-14.86	-14.09	Pass
0.3860	30.33	19.93	10.29	40.62	30.22	58.15	48.15	-17.53	-17.93	Pass
0.4580	21.96	13.26	10.29	32.25	23.55	56.73	46.73	-24.48	-23.18	Pass

Test Mode:	Mode 1	Temp/Hum	24.3(°C)/ 47.6%RH
Phase:	Neutral	Test Date	June 11, 2021
Test Voltage:	AC 120V / 60Hz	Test Engineer	Jack Chen



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1500	40.75	22.62	10.29	51.04	32.91	66.00	56.00	-14.96	-23.09	Pass
0.1620	39.54	25.89	10.29	49.83	36.18	65.36	55.36	-15.53	-19.18	Pass
0.1740	36.77	23.33	10.29	47.06	33.62	64.77	54.77	-17.71	-21.15	Pass
0.1860	34.78	24.49	10.29	45.07	34.78	64.21	54.21	-19.14	-19.43	Pass
0.3660	31.78	22.66	10.29	42.07	32.95	58.59	48.59	-16.52	-15.64	Pass
0.3740	30.65	19.09	10.29	40.94	29.38	58.41	48.41	-17.47	-19.03	Pass

## 5. OUTPUT POWER MEASUREMENT

### 5.1 Test Limit

According to §15.247(b),

#### **Peak output power :**

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	<input type="checkbox"/> Antenna not exceed 6 dBi : 30dBm <input checked="" type="checkbox"/> Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)] <input type="checkbox"/> Point-to-point operation :
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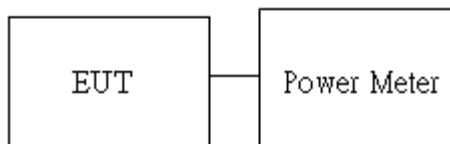
**Average output power :** For reporting purposes only.

### 5.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power in the test report.

### 5.3 Test Setup



Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

## 5.4 Test Result

Temperature: 25.3°C

Humidity: 50.2% RH

Tested by: Lance Chen

Test date: May 25, 2021

### Peak output power :

#### MIMO:

802.11b		Peak Power Output(dBm)		
CH	Frequency (MHz)	Data Rate (Mbps)		
		1		
		ch 0	ch 1	ch 0+1
1	2412	20.17	20.11	23.15
6	2437	19.72	20.27	23.01
11	2462	20.72	20.09	23.43

802.11g		Peak Power Output(dBm)		
CH	Frequency (MHz)	Data Rate (Mbps)		
		6		
		ch 0	ch 1	ch 0+1
1	2412	23.14	23.21	26.19
6	2437	23.21	23.17	26.20
11	2462	22.94	22.78	25.87

802.11 n (20M)		Peak Power Output(dBm)		
CH	Frequency (MHz)	Data Rate (Mbps)		
		MCS0		
		ch 0	ch 1	ch 0+1
1	2412	23.25	22.81	26.05
6	2437	22.87	22.91	25.90
11	2462	22.59	22.63	25.62

802.11 n (40M)		Peak Power Output(dBm)		
CH	Frequency (MHz)	Data Rate (Mbps)		
		MCS0		
		ch 0	ch 1	ch 0+1
3	2422	21.38	21.27	24.34
6	2437	22.36	22.32	25.35
9	2452	21.16	21.23	24.21

#### Note:

After comparing the verification data with the original data, they are all within +-2dB.



## 6. RADIATION BANDEDGE AND SPURIOUS EMISSION

### 6.1 TEST LIMIT

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

#### Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

#### Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Remark:**

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

## 6.2 TEST PROCEDURE

Test method Refer as ANSI C63.10: 2013

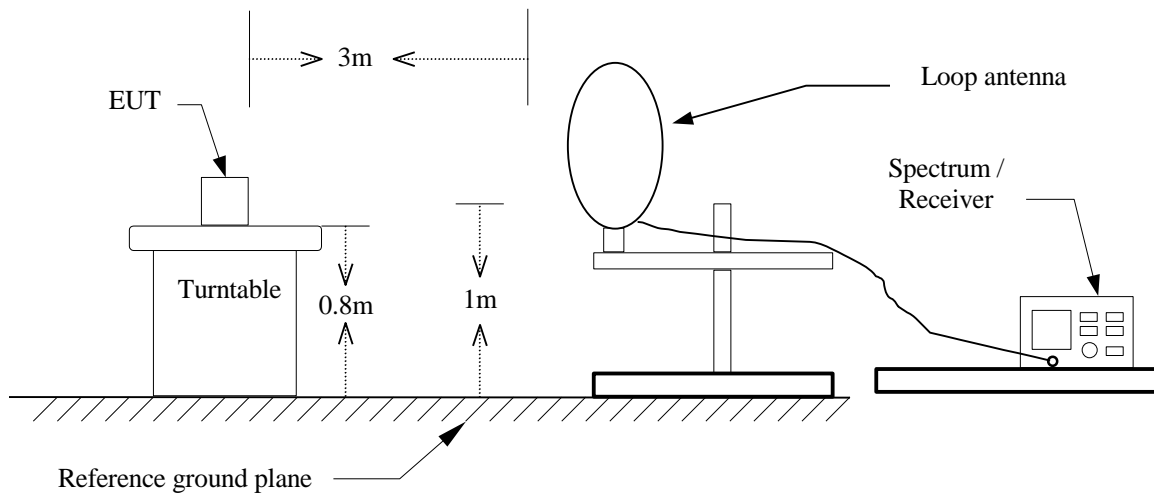
1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.
4. The SA setting following :
  - (1) Below 1G : RBW = 100kHz, VBW  $\geq$  3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
  - (2) Above 1G :
    - (2.1) For Peak measurement : RBW = 1MHz, VBW  $\geq$  3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
    - (2.2) For Average measurement : RBW = 1MHz, VBW
      - If Duty Cycle  $\geq$  98%, VBW=10Hz.
      - If Duty Cycle < 98%, VBW=1/T.

Remark:

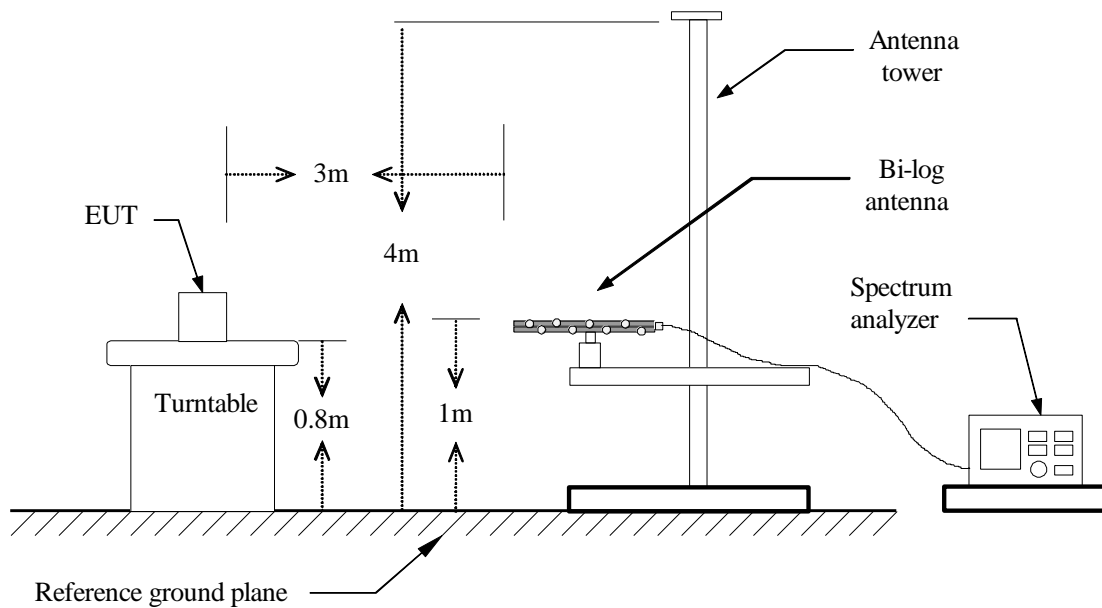
1. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
2. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

## 6.3 TEST SETUP

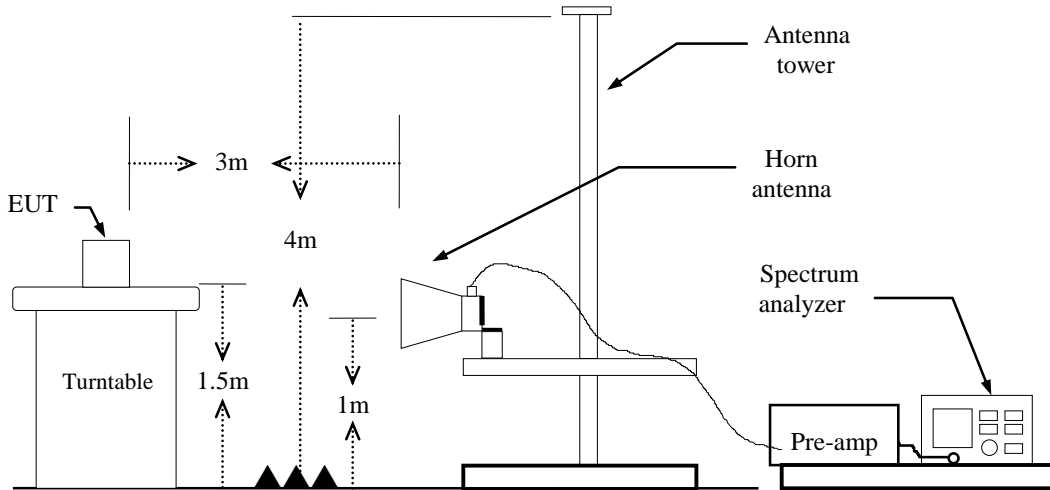
### 9kHz ~ 30MHz



### 30MHz ~ 1GHz



## Above 1 GHz



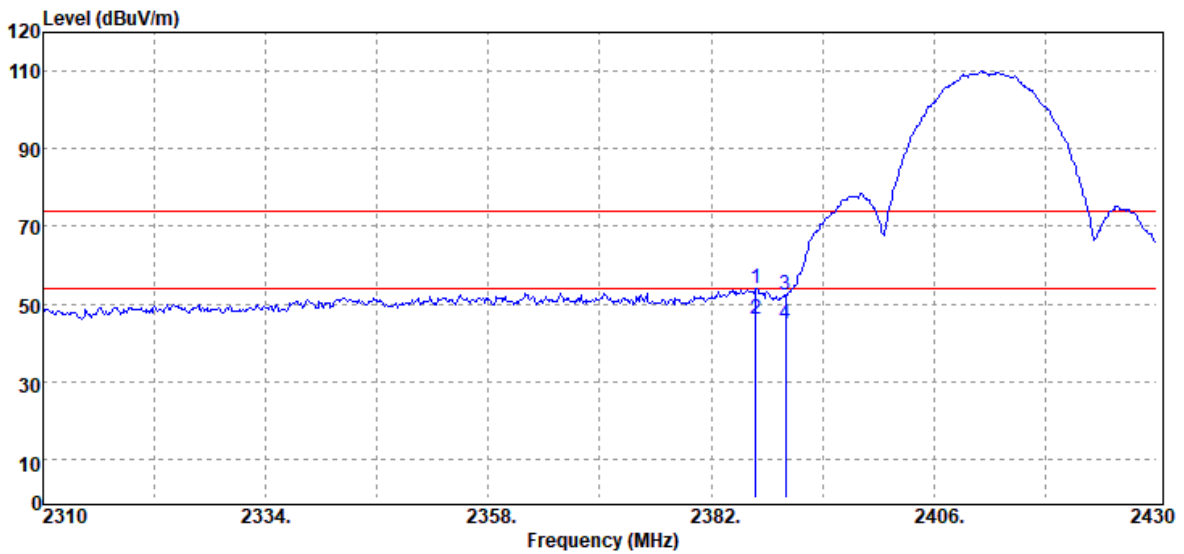
Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

## 6.4 Test Result

### Band Edge Test Data

Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

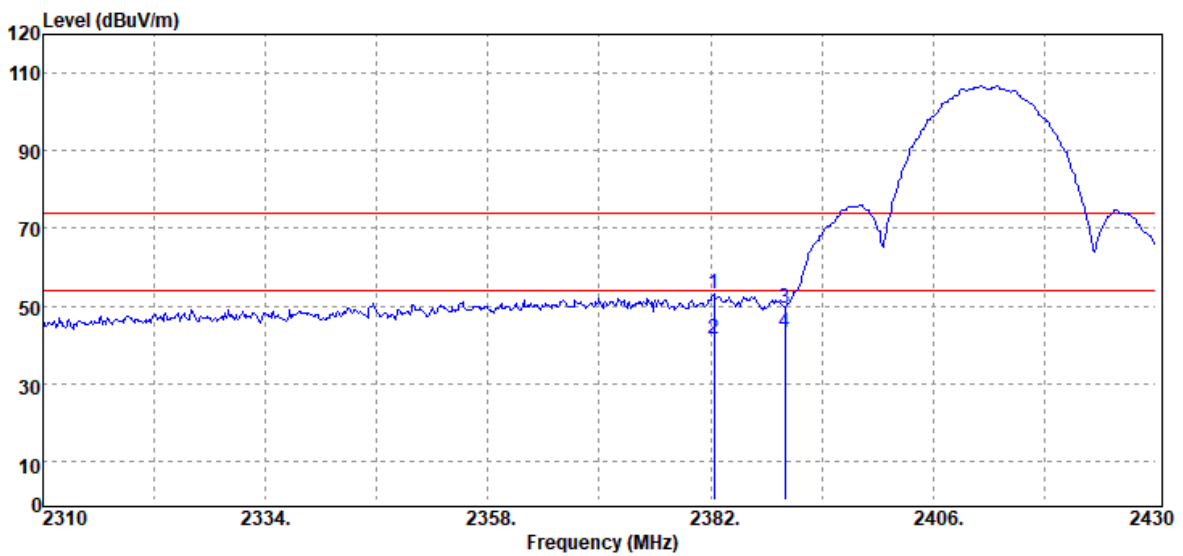


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2386.80	Peak	55.08	-1.00	54.08	74.00	-19.92
2386.80	Average	47.02	-1.00	46.02	54.00	-7.98
2390.00	Peak	53.19	-1.00	52.19	74.00	-21.81
2390.00	Average	45.95	-1.00	44.95	54.00	-9.05

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

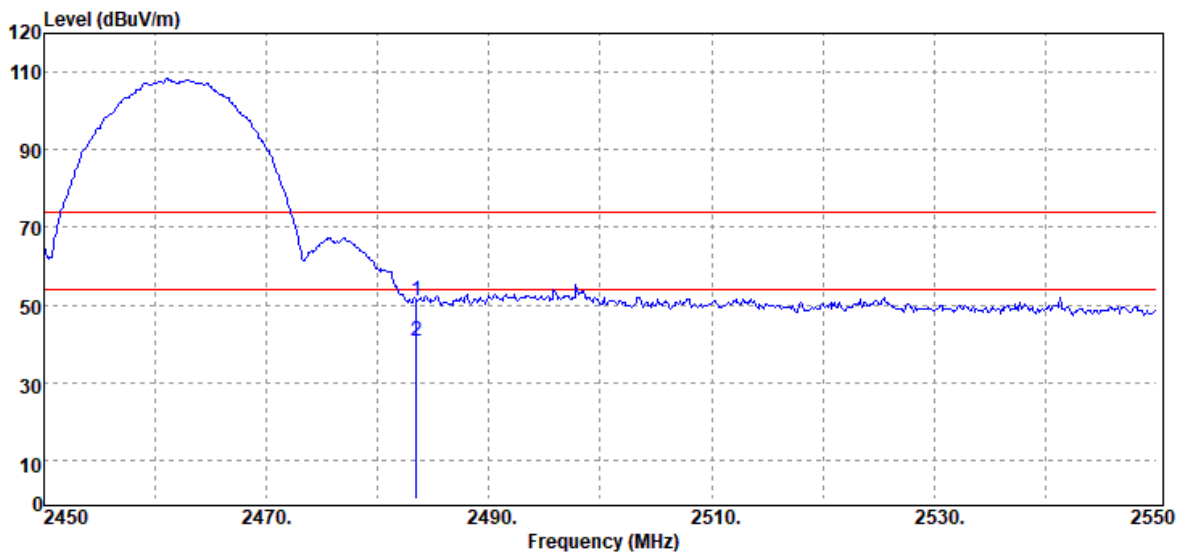


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2382.36	Peak	54.19	-1.00	53.19	74.00	-20.81
2382.36	Average	42.59	-1.00	41.59	54.00	-12.41
2390.00	Peak	50.39	-1.00	49.39	74.00	-24.61
2390.00	Average	44.10	-1.00	43.10	54.00	-10.90

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

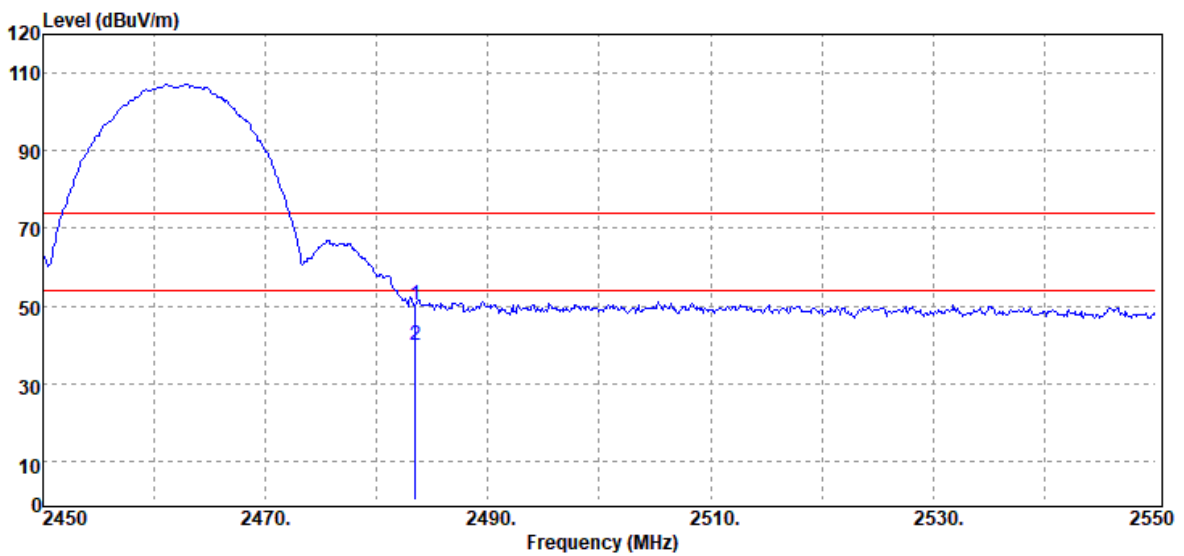


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2483.50	Peak	51.72	-0.66	51.06	74.00	-22.94
2483.50	Average	41.36	-0.66	40.70	54.00	-13.30

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



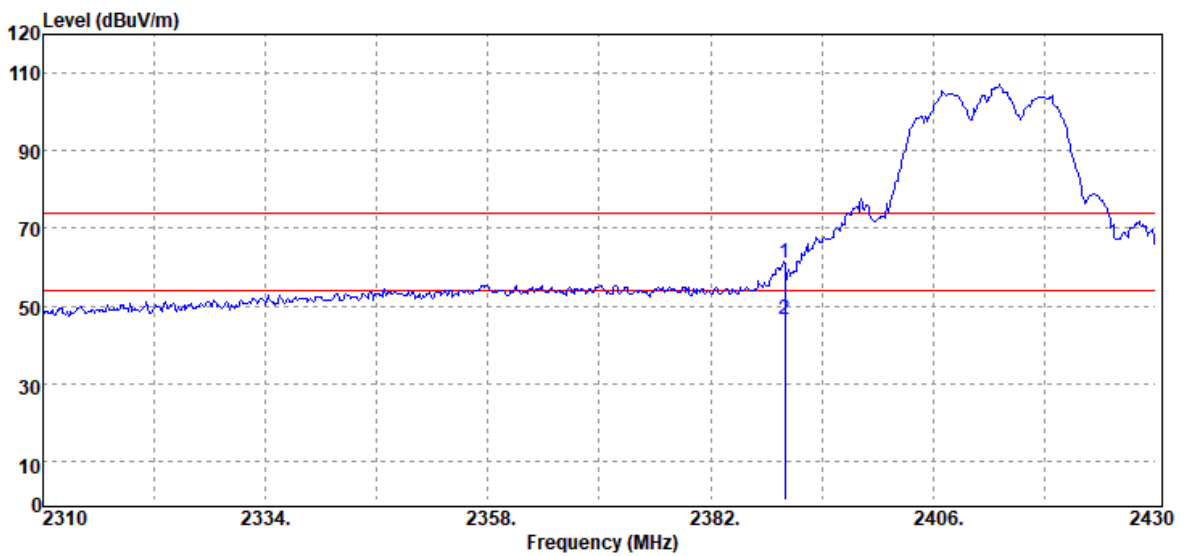
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2483.50	Peak	50.96	-0.66	50.30	74.00	-23.70
2483.50	Average	40.60	-0.66	39.94	54.00	-14.06



Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

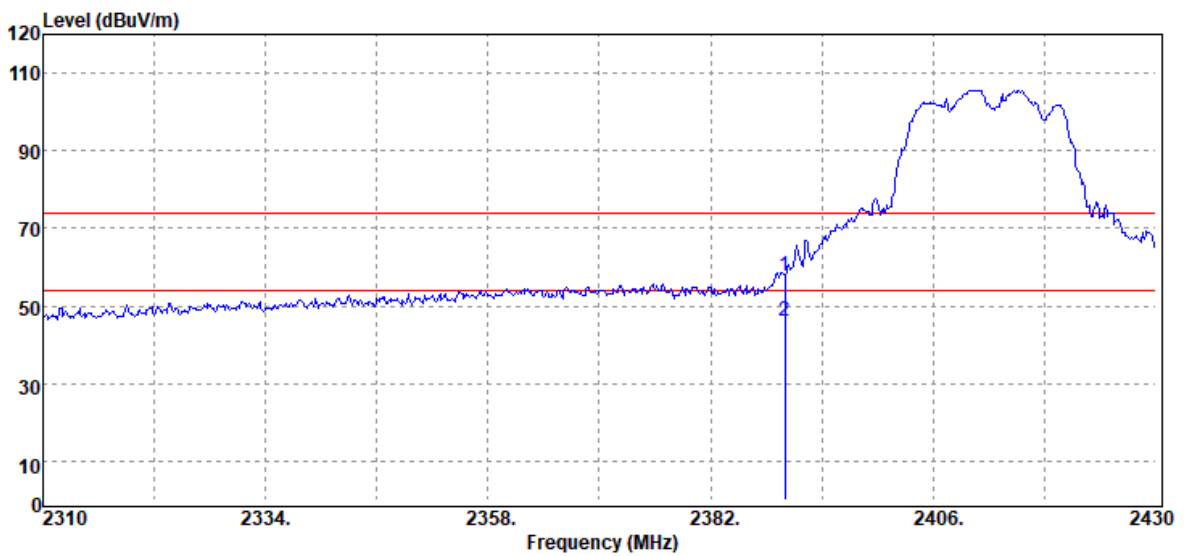


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.00	Peak	61.86	-1.00	60.86	74.00	-13.14
2390.00	Average	47.67	-1.00	46.67	54.00	-7.33

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

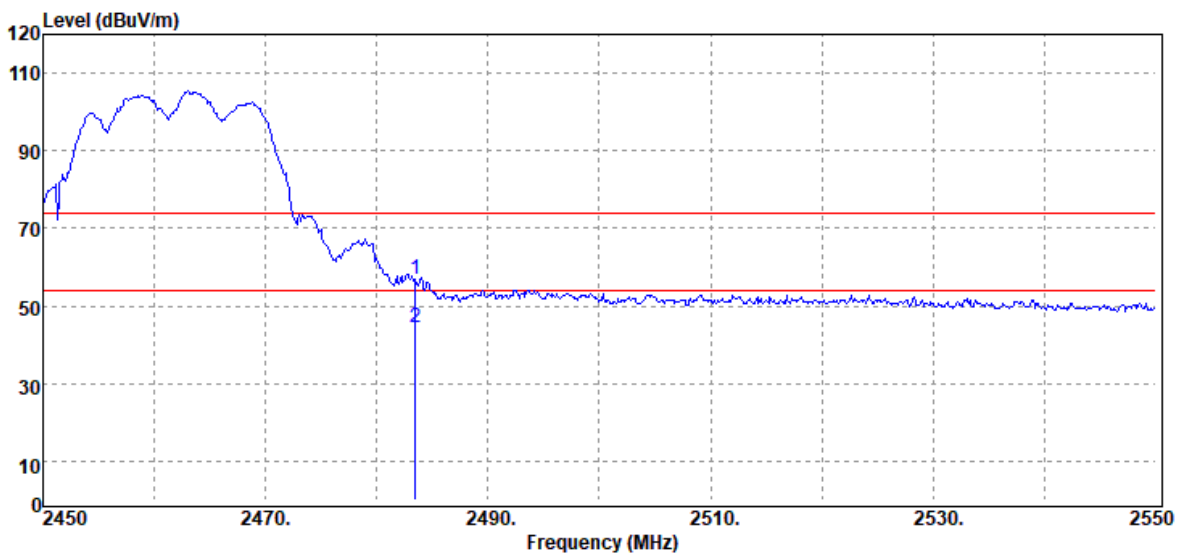


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2390.00	Peak	58.90	-1.00	57.90	74.00	-16.10
2390.00	Average	47.06	-1.00	46.06	54.00	-7.94

Report No.: T210429W04-RP

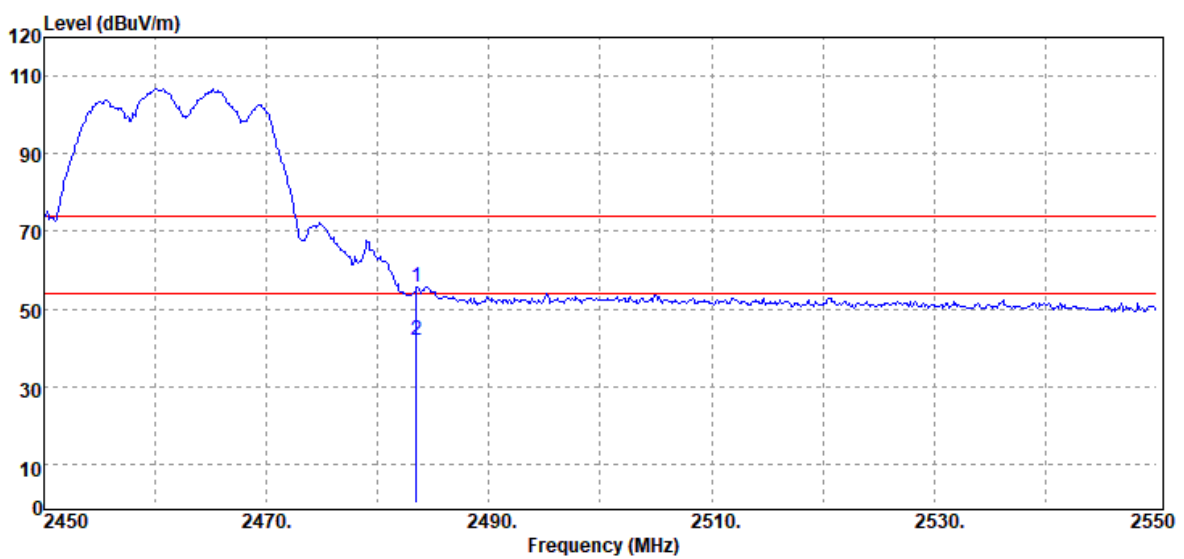
Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2483.50	Peak	57.50	-0.66	56.84	74.00	-17.16
2483.50	Average	45.00	-0.66	44.34	54.00	-9.66

Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

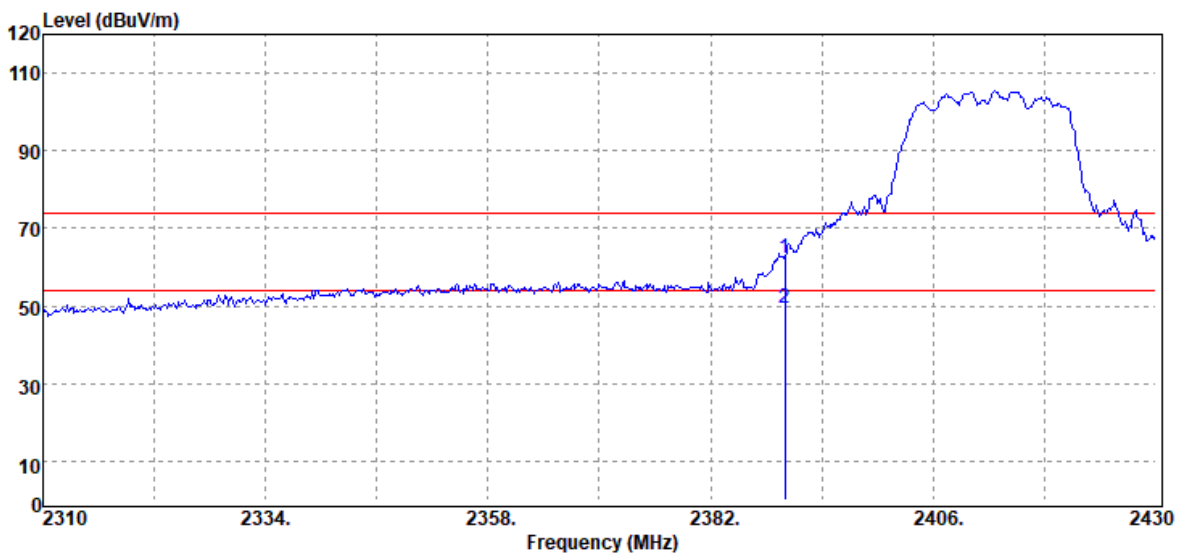


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2483.50	Peak	56.29	-0.66	55.63	74.00	-18.37
2483.50	Average	42.57	-0.66	41.91	54.00	-12.09

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT20 Low CH 2412MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

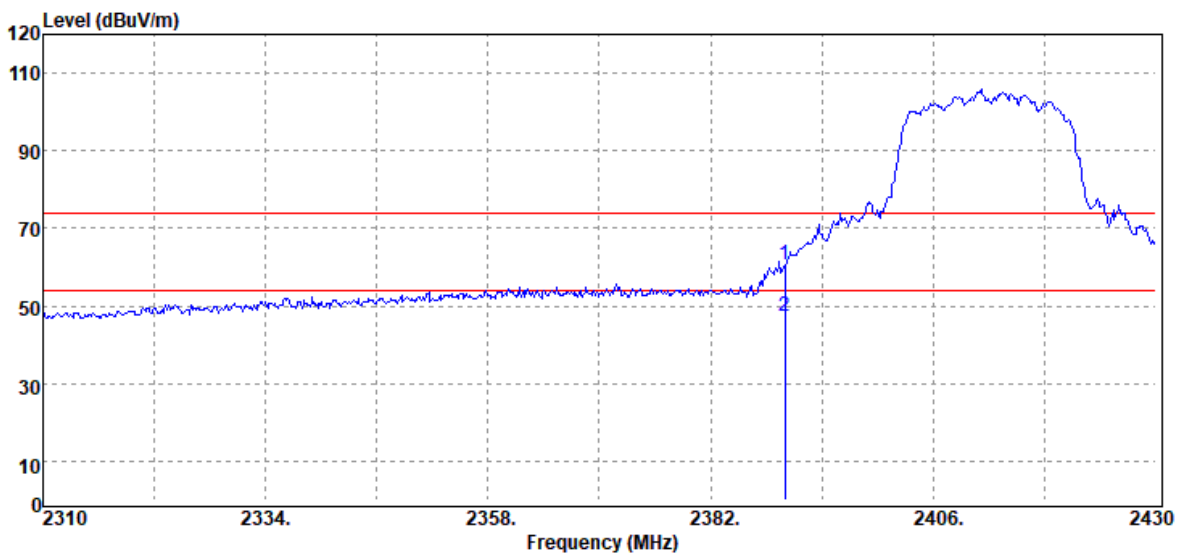


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2390.00	Peak	63.41	-1.00	62.41	74.00	-11.59
2390.00	Average	50.43	-1.00	49.43	54.00	-4.57

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11 n20 Low CH 2412MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

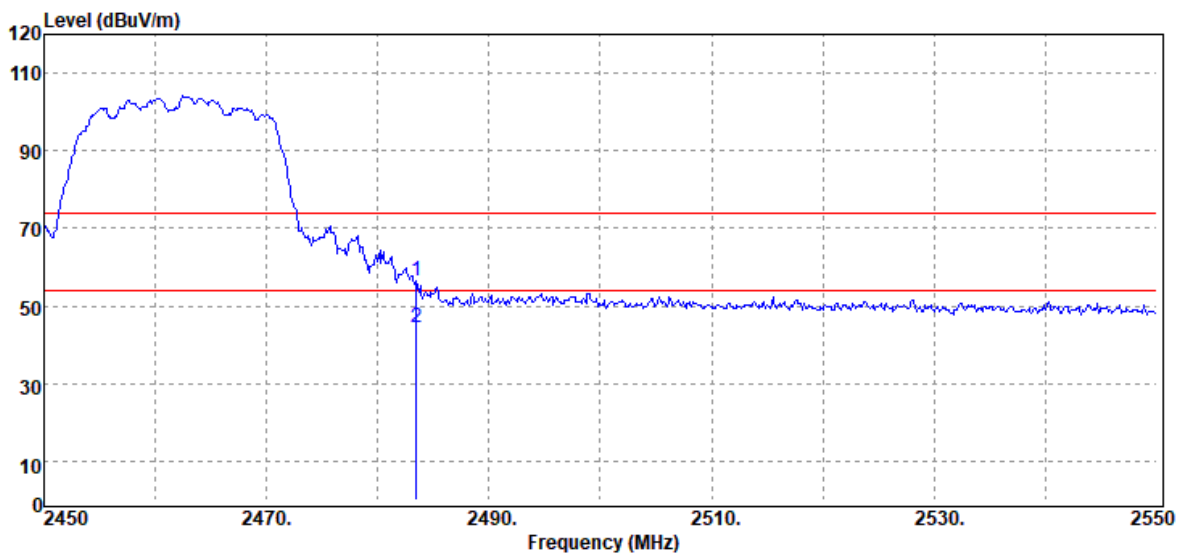


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2390.00	Peak	61.54	-1.00	60.54	74.00	-13.46
2390.00	Average	48.50	-1.00	47.50	54.00	-6.50

Report No.: T210429W04-RP

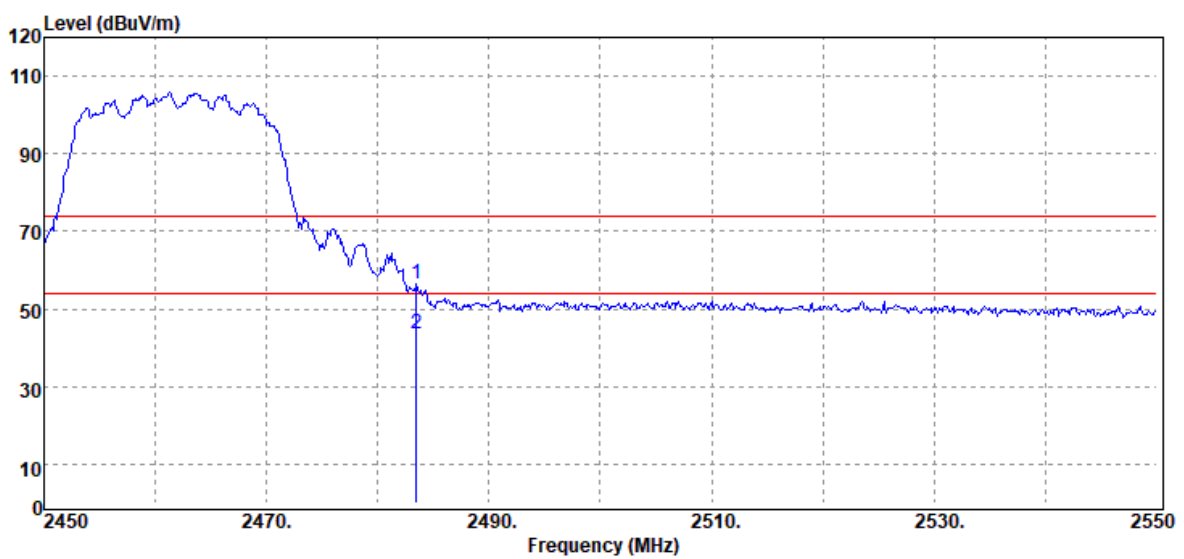
Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT20 High CH 2462MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2483.50	Peak	57.08	-0.66	56.42	74.00	-17.58
2483.50	Average	45.00	-0.66	44.34	54.00	-9.66

Test Mode	IEEE 802.11n20 High CH 2462MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



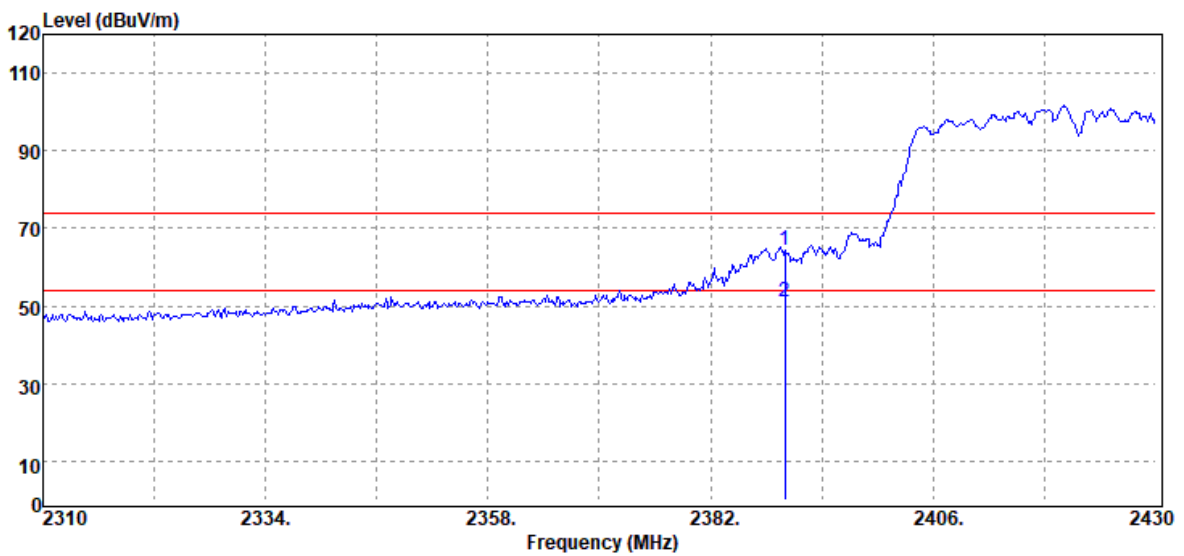
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2483.50	Peak	56.98	-0.66	56.32	74.00	-17.68
2483.50	Average	44.05	-0.66	43.39	54.00	-10.61



Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT40 Low CH 2422MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

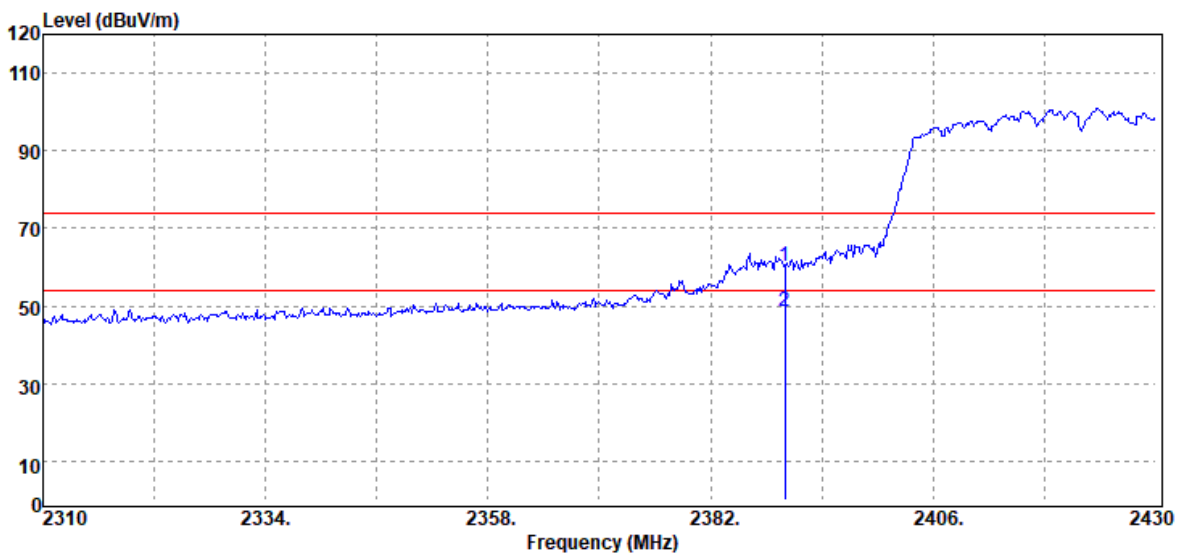


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2390.00	Peak	65.33	-1.00	64.33	74.00	-9.67
2390.00	Average	51.97	-1.00	50.97	54.00	-3.03

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11 n40 Low CH 2422MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

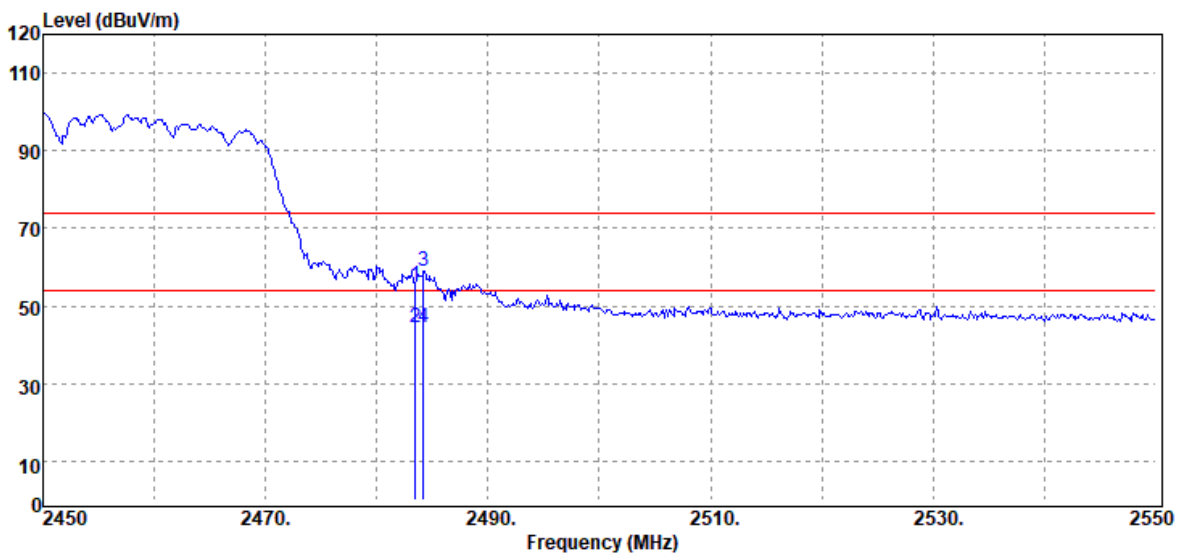


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.00	Peak	61.04	-1.00	60.04	74.00	-13.96
2390.00	Average	49.53	-1.00	48.53	54.00	-5.47

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT40 High CH 2452MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

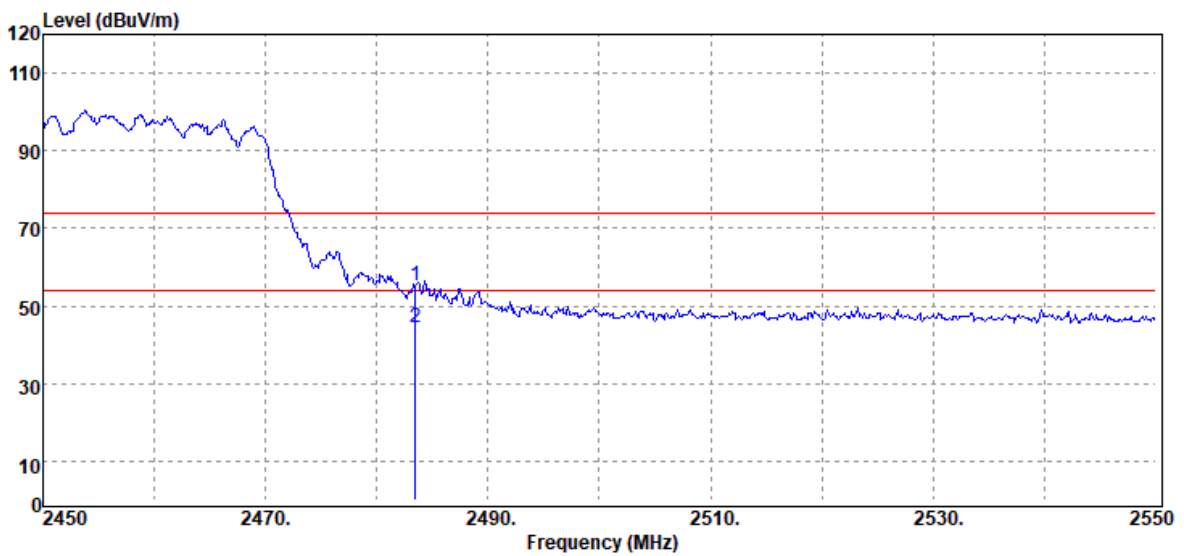


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2483.50	Peak	55.92	-0.66	55.26	74.00	-18.74
2483.50	Average	45.29	-0.66	44.63	54.00	-9.37
2484.20	Peak	59.48	-0.65	58.83	74.00	-15.17
2484.20	Average	44.97	-0.65	44.32	54.00	-9.68

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n40 High CH 2452MHz	Temp/Hum	22.8(°C)/ 56%RH
Test Item	Band Edge	Test Date	May 31, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



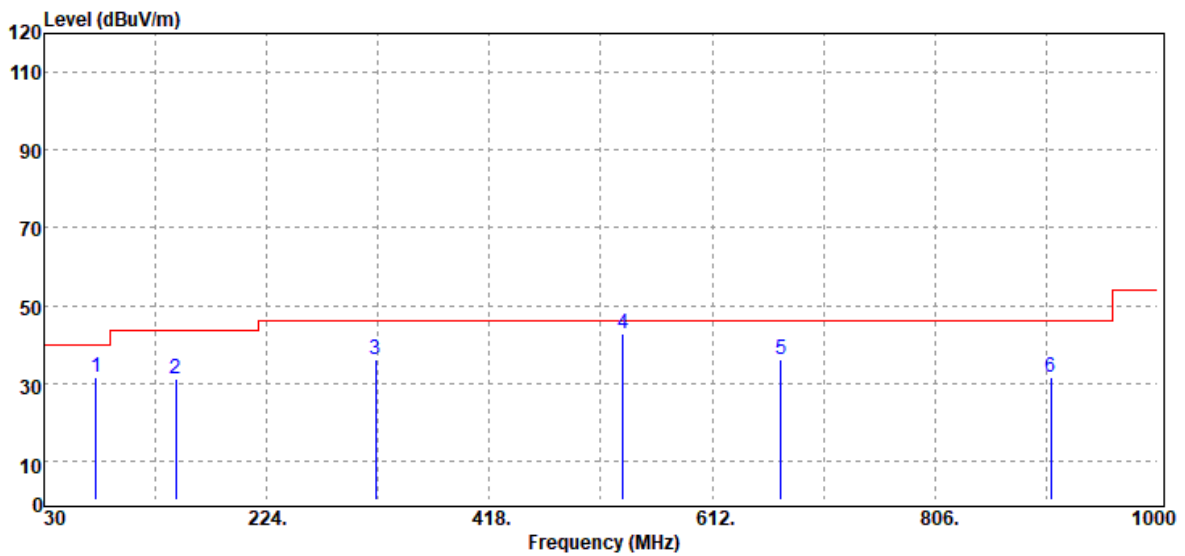
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2483.50	Peak	55.84	-0.66	55.18	74.00	-18.82
2483.50	Average	44.89	-0.66	44.23	54.00	-9.77

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

**Below 1G Test Data**

Test Mode	Mode 1	Temp/Hum	22.8(°C)/ 41%RH
Test Item	30MHz-1GHz	Test Date	May 26, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak	Test Voltage	



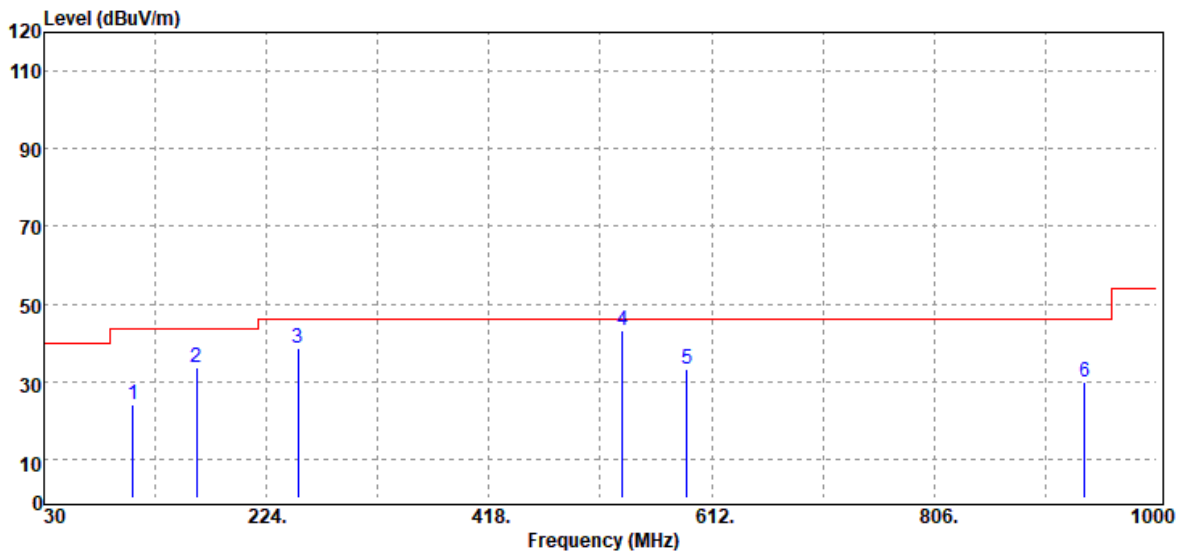
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
75.59	Peak	46.75	-15.04	31.71	40.00	-8.29
144.46	Peak	41.49	-10.18	31.31	43.50	-12.19
319.06	Peak	44.11	-7.89	36.22	46.00	-9.78
534.40	Peak	45.15	-2.57	42.58	46.00	-3.42
672.14	Peak	36.87	-0.63	36.24	46.00	-9.76
906.88	Peak	28.29	3.20	31.49	46.00	-14.51

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	Mode 1	Temp/Hum	22.8(°C)/ 41%RH
Test Item	30MHz-1GHz	Test Date	May 26, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak	Test Voltage	



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
107.60	Peak	35.18	-10.95	24.23	43.50	-19.27
162.89	Peak	43.95	-10.42	33.53	43.50	-9.97
251.16	Peak	49.25	-10.80	38.45	46.00	-7.55
534.40	Peak	45.69	-2.57	43.12	46.00	-2.88
590.66	Peak	35.46	-2.09	33.37	46.00	-12.63
936.95	Peak	26.25	3.57	29.82	46.00	-16.18

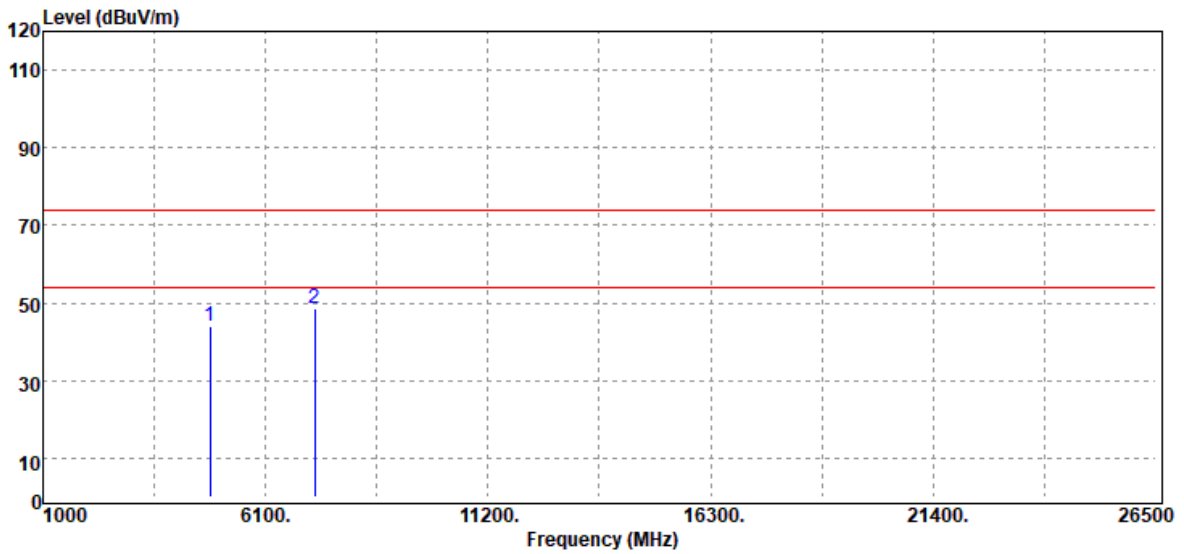
Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

**Above 1G Test Data**

Test Mode	IEEE 802.11b Low CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	38.43	5.68	44.11	74.00	-29.89
7236.00	Peak	35.24	13.17	48.41	74.00	-25.59
N/A						

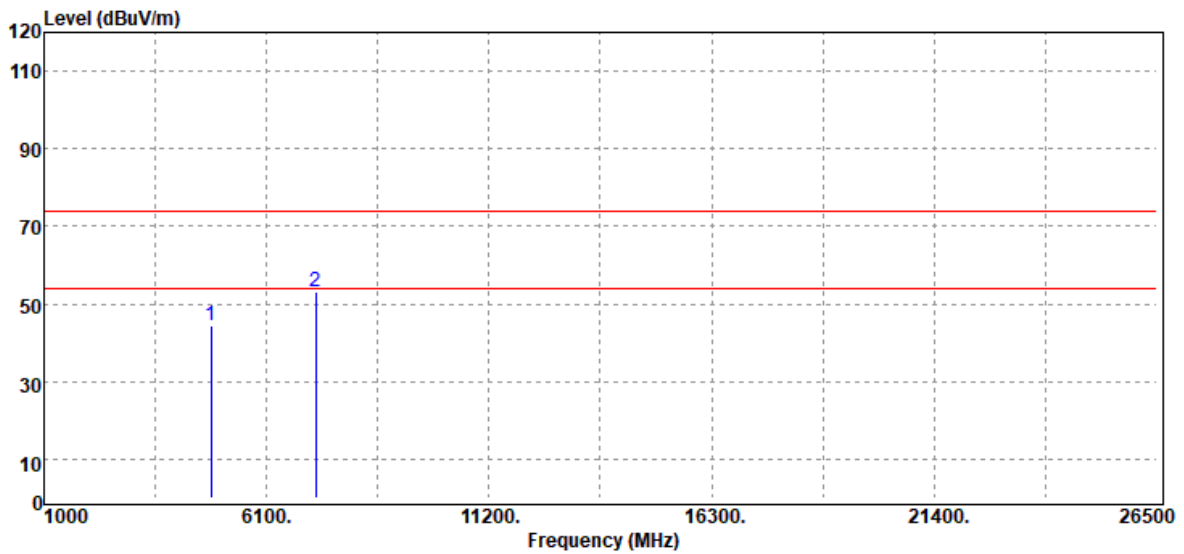
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11b Low CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	38.75	5.68	44.43	74.00	-29.57
7236.00	Peak	39.90	13.17	53.07	74.00	-20.93
N/A						

**Remark:**

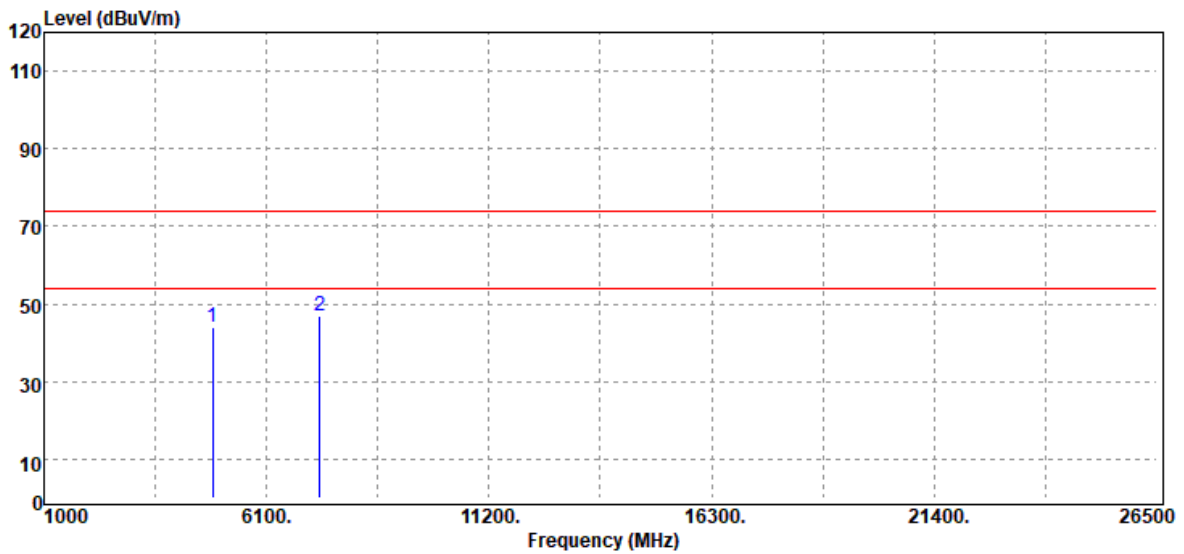
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	38.23	5.92	44.15	74.00	-29.85
7311.00	Peak	33.73	13.26	46.99	74.00	-27.01
N/A						

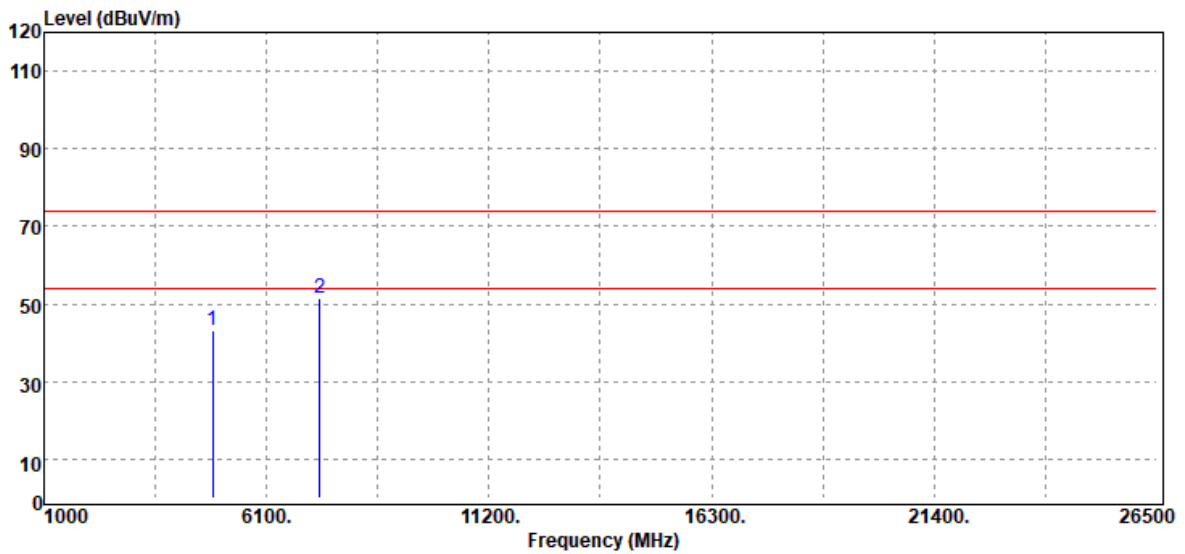
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	37.29	5.92	43.21	74.00	-30.79
7311.00	Peak	38.28	13.26	51.54	74.00	-22.46
N/A						

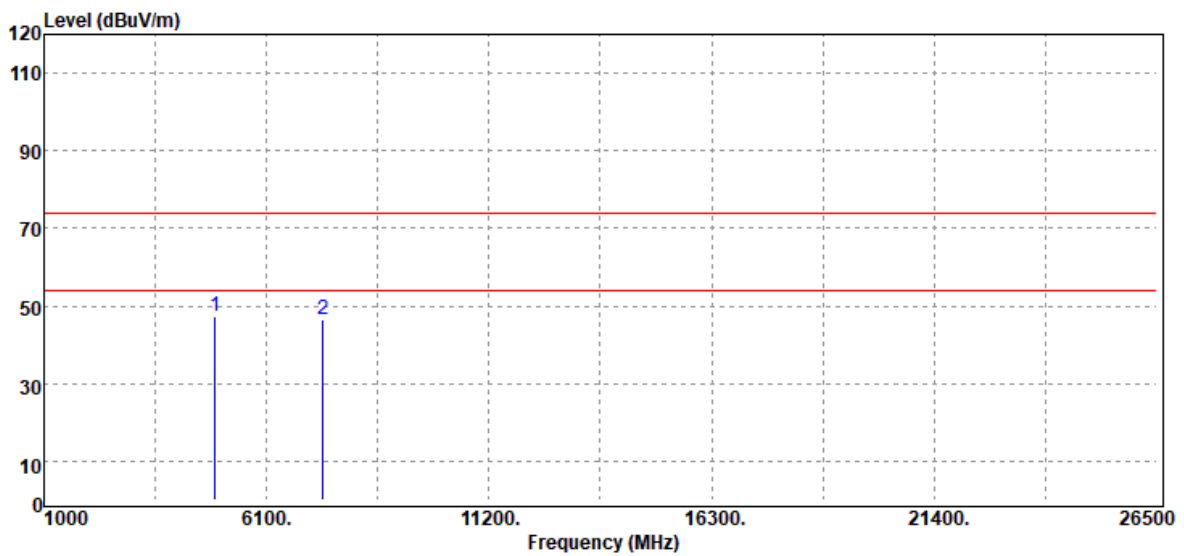
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11b High CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4924.00	Peak	40.98	6.37	47.35	74.00	-26.65
7386.00	Peak	33.40	13.07	46.47	74.00	-27.53
N/A						

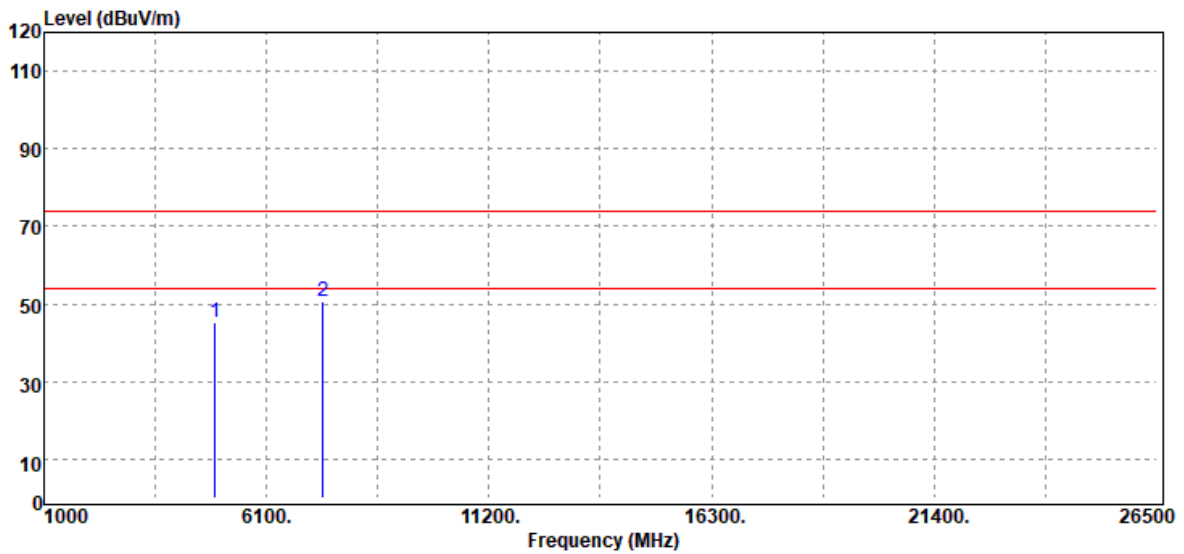
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11b High CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4924.00	Peak	38.89	6.37	45.26	74.00	-28.74
7386.00	Peak	37.74	13.07	50.81	74.00	-23.19
N/A						

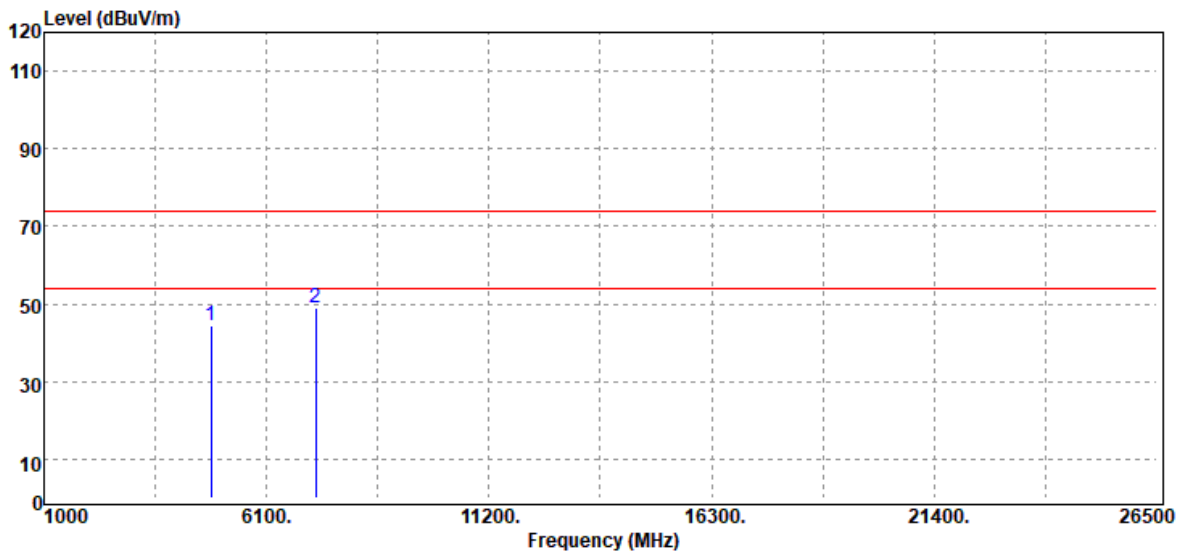
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11g Low CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	38.70	5.68	44.38	74.00	-29.62
7236.00	Peak	35.65	13.17	48.82	74.00	-25.18
N/A						

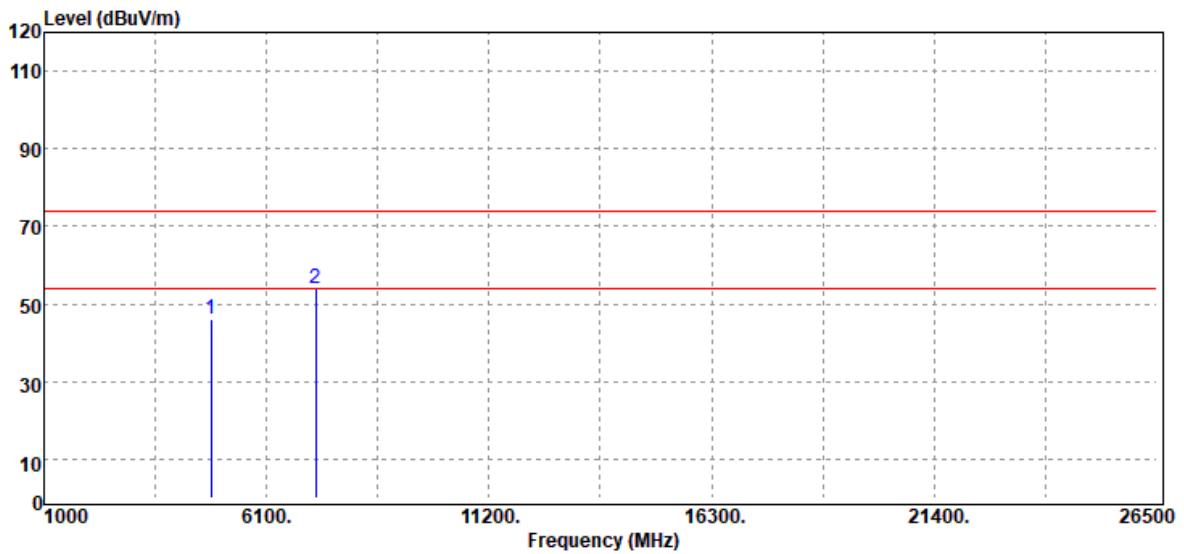
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11g Low CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

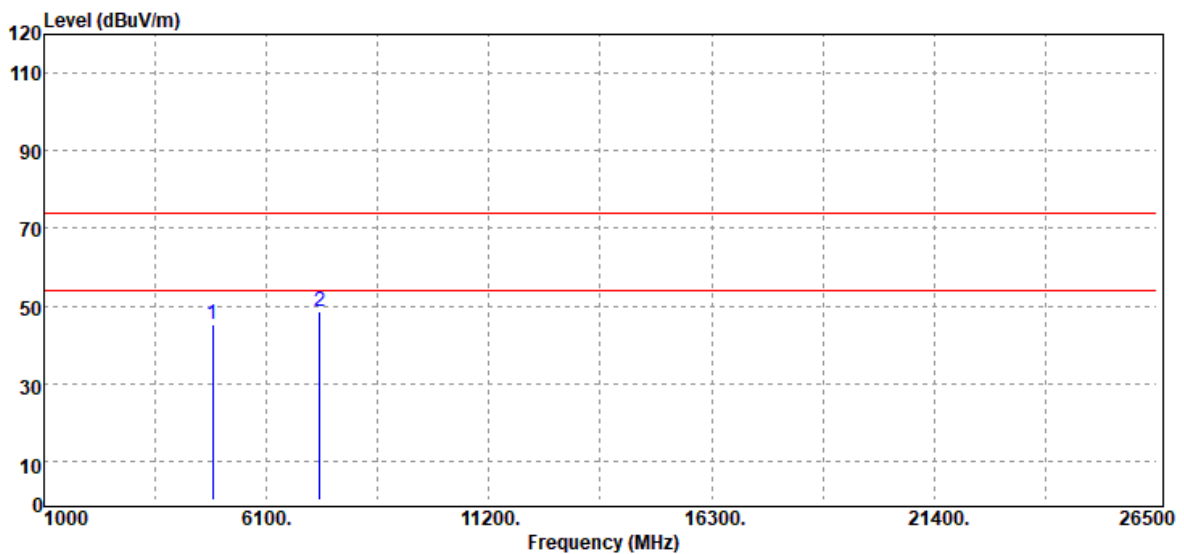


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	40.37	5.68	46.05	74.00	-27.95
7236.00	Peak	40.80	13.17	53.97	74.00	-20.03
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	39.28	5.92	45.20	74.00	-28.80
7311.00	Peak	35.15	13.26	48.41	74.00	-25.59
N/A						

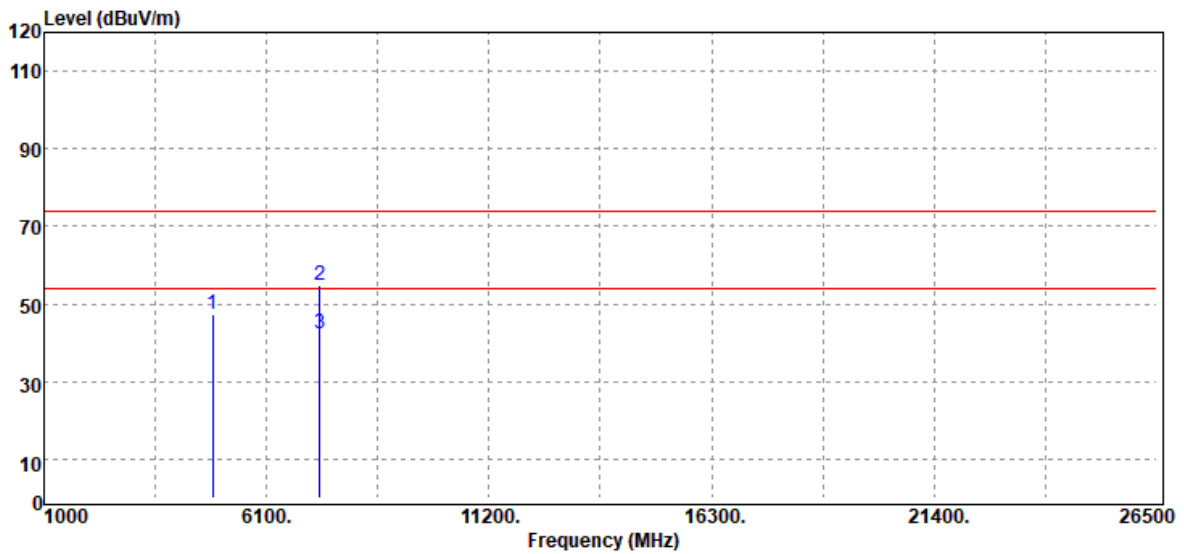
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	41.24	5.92	47.16	74.00	-26.84
7311.00	Peak	41.70	13.26	54.96	74.00	-19.04
7311.00	Average	29.12	13.26	42.38	54.00	-11.62
N/A						

**Remark:**

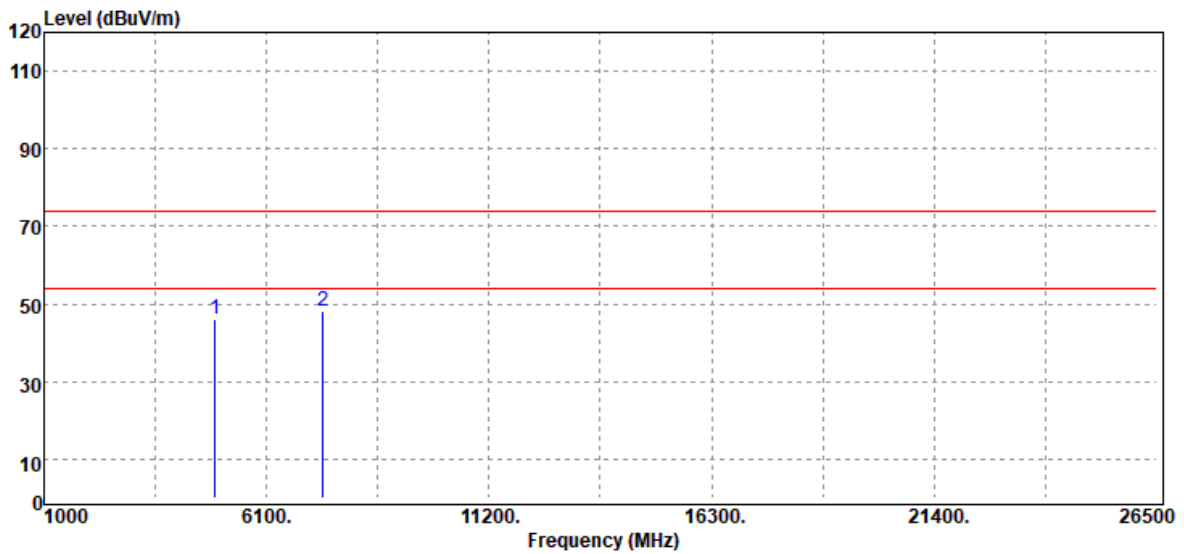
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11g High CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	39.80	6.37	46.17	74.00	-27.83
7386.00	Peak	35.21	13.07	48.28	74.00	-25.72
N/A						

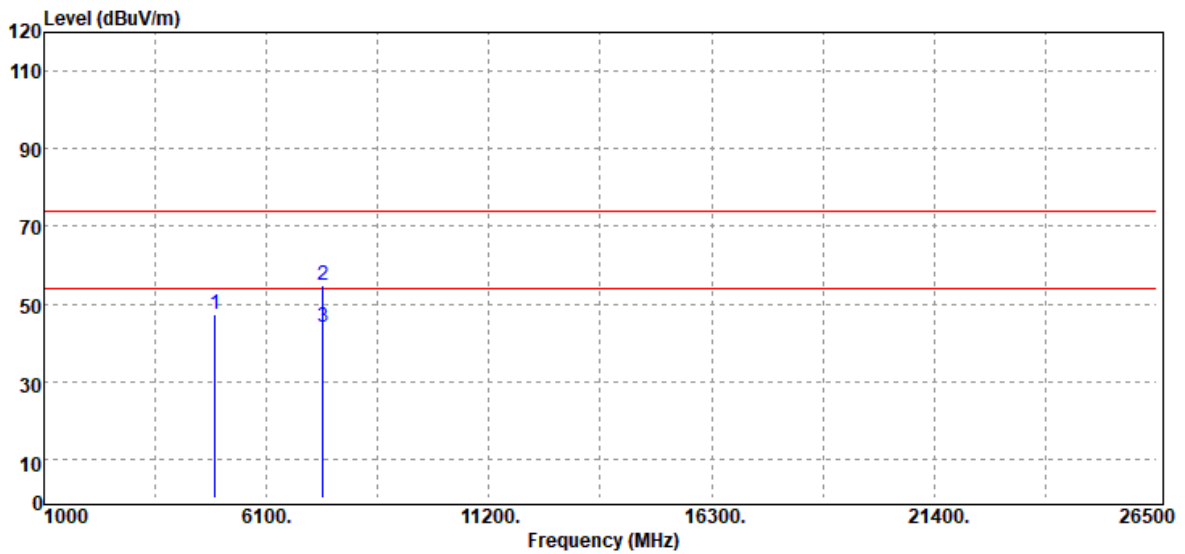
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11g High CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	40.99	6.37	47.36	74.00	-26.64
7386.00	Peak	41.76	13.07	54.83	74.00	-19.17
7386.00	Average	30.95	13.07	44.02	54.00	-9.98
N/A						

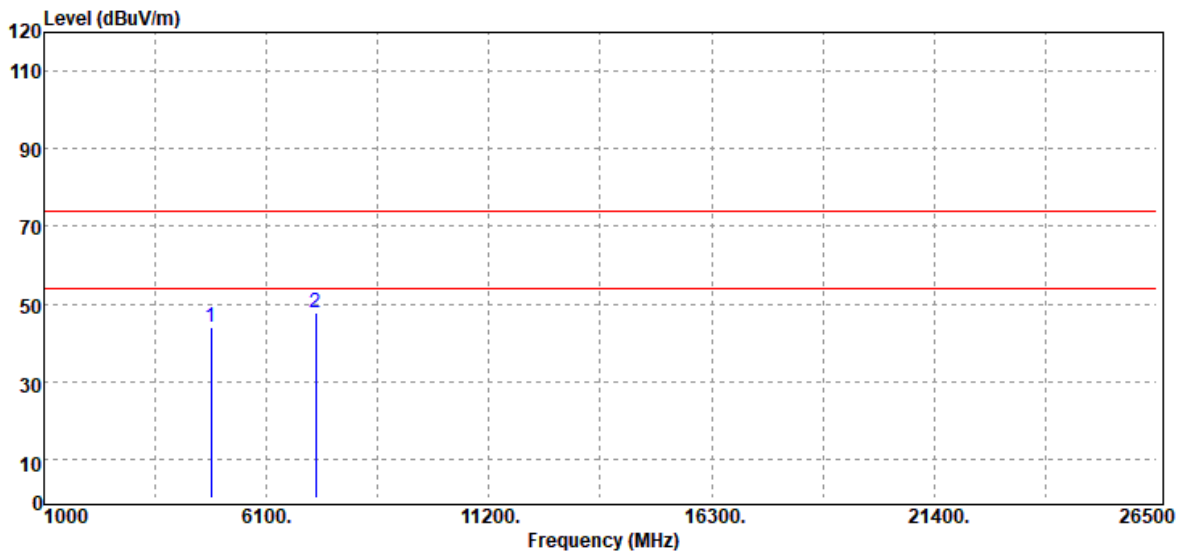
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4824.00	Peak	38.22	5.68	43.90	74.00	-30.10
7236.00	Peak	34.68	13.17	47.85	74.00	-26.15
N/A						

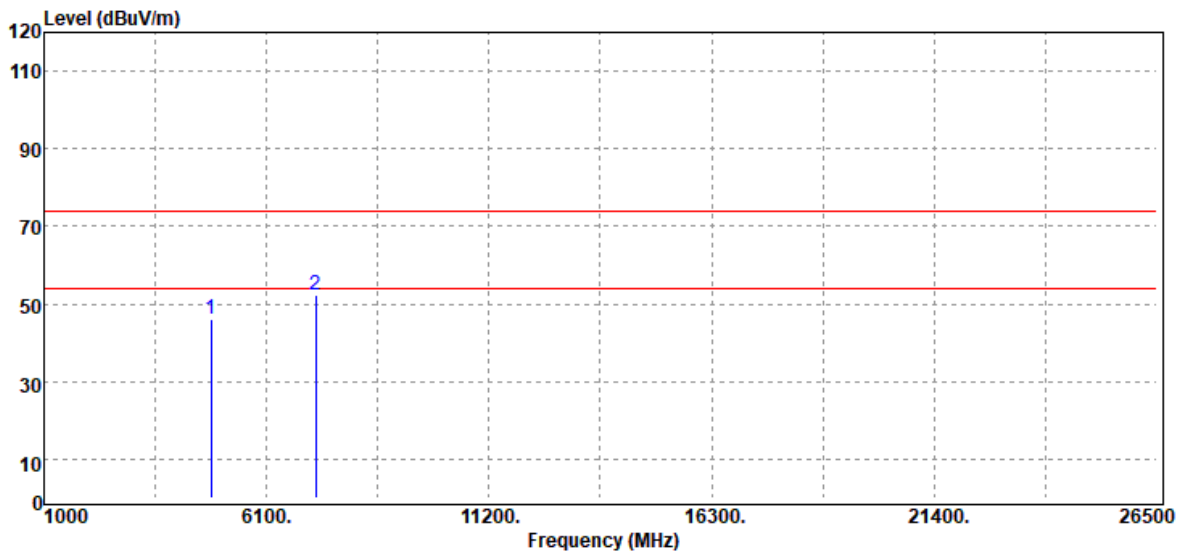
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4824.00	Peak	40.53	5.68	46.21	74.00	-27.79
7236.00	Peak	39.08	13.17	52.25	74.00	-21.75
N/A						

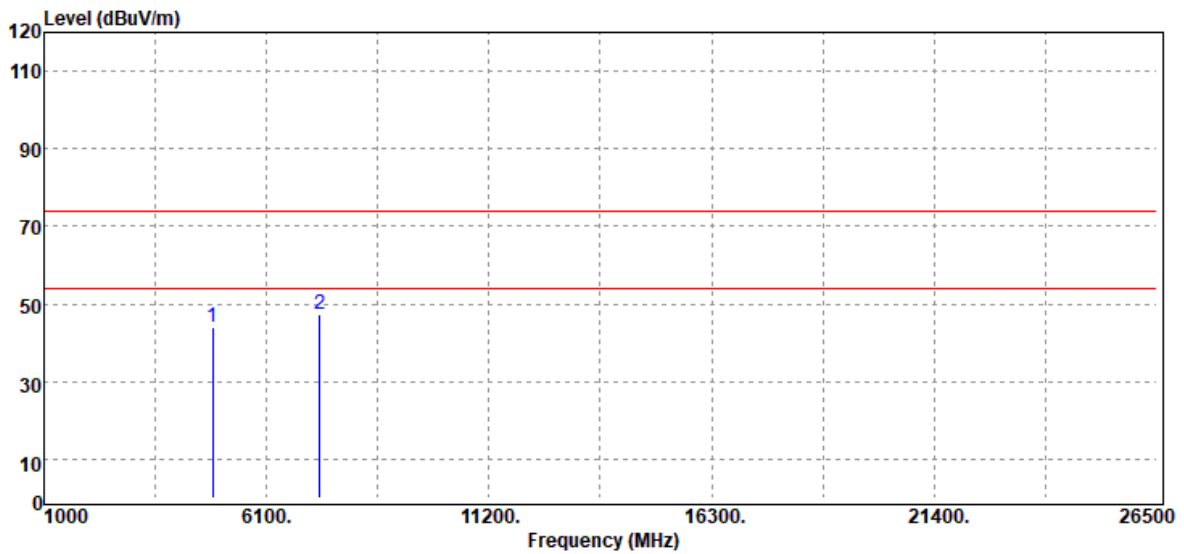
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	38.20	5.92	44.12	74.00	-29.88
7311.00	Peak	33.90	13.26	47.16	74.00	-26.84
N/A						

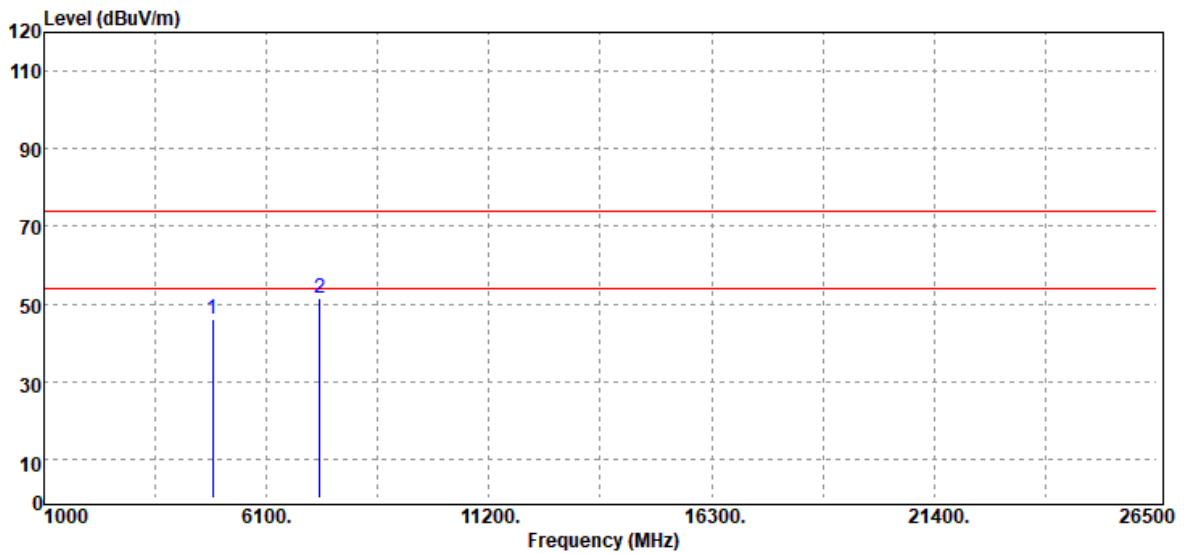
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	40.25	5.92	46.17	74.00	-27.83
7311.00	Peak	38.35	13.26	51.61	74.00	-22.39
N/A						

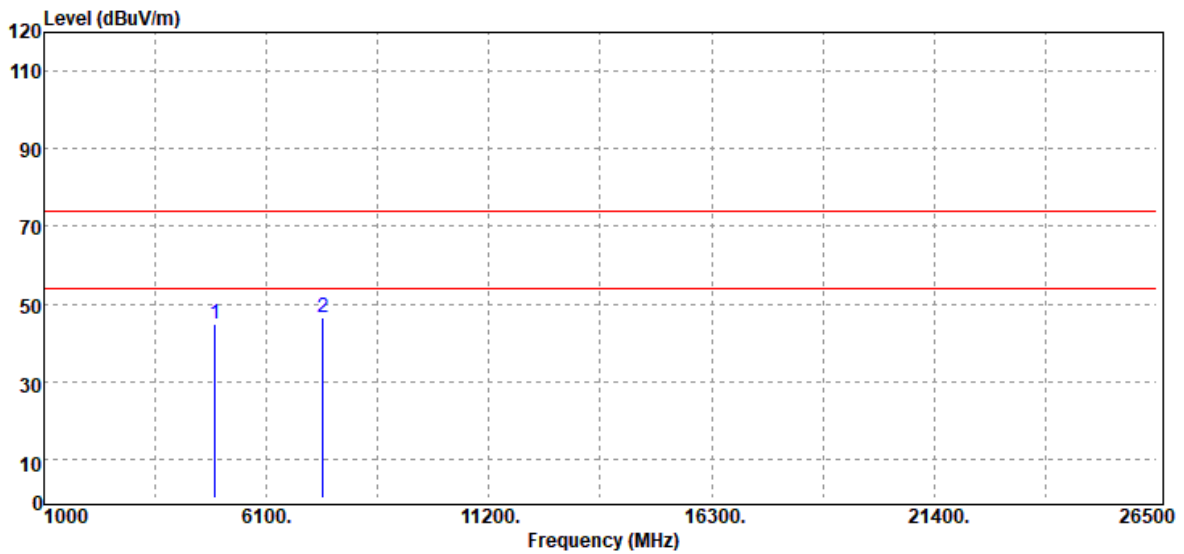
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4924.00	Peak	38.36	6.37	44.73	74.00	-29.27
7386.00	Peak	33.62	13.07	46.69	74.00	-27.31
N/A						

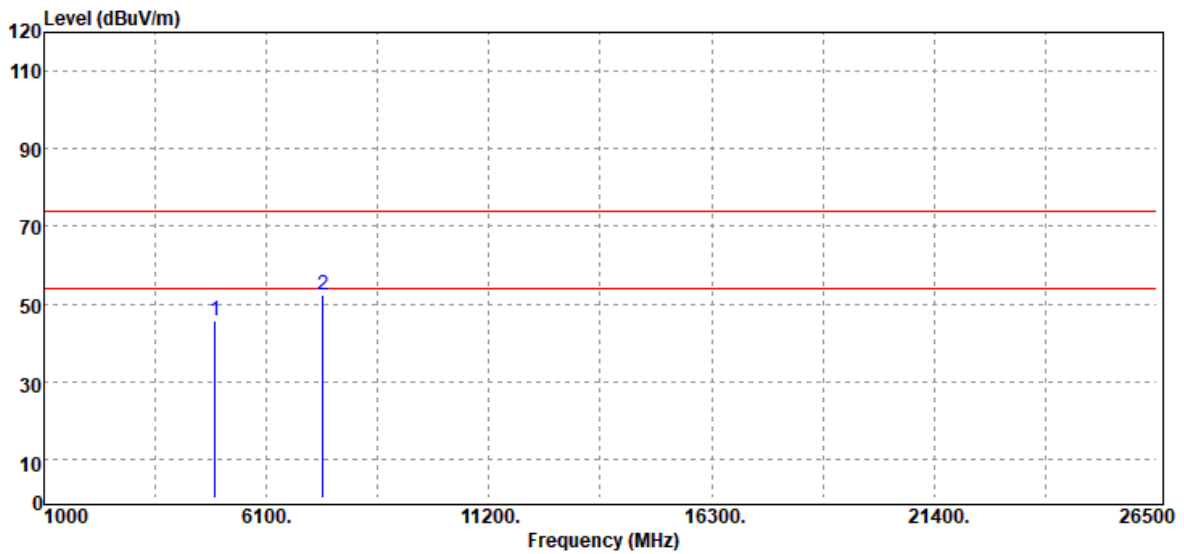
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	39.46	6.37	45.83	74.00	-28.17
7386.00	Peak	39.43	13.07	52.50	74.00	-21.50
N/A						

**Remark:**

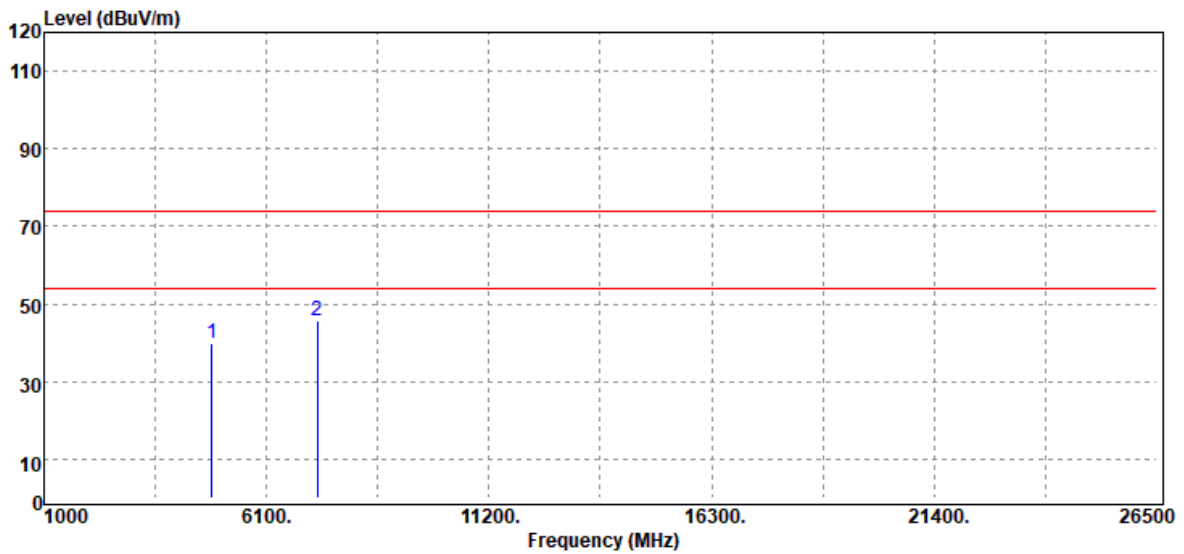
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4844.00	Peak	34.02	5.73	39.75	74.00	-34.25
7266.00	Peak	32.53	13.21	45.74	74.00	-28.26
N/A						

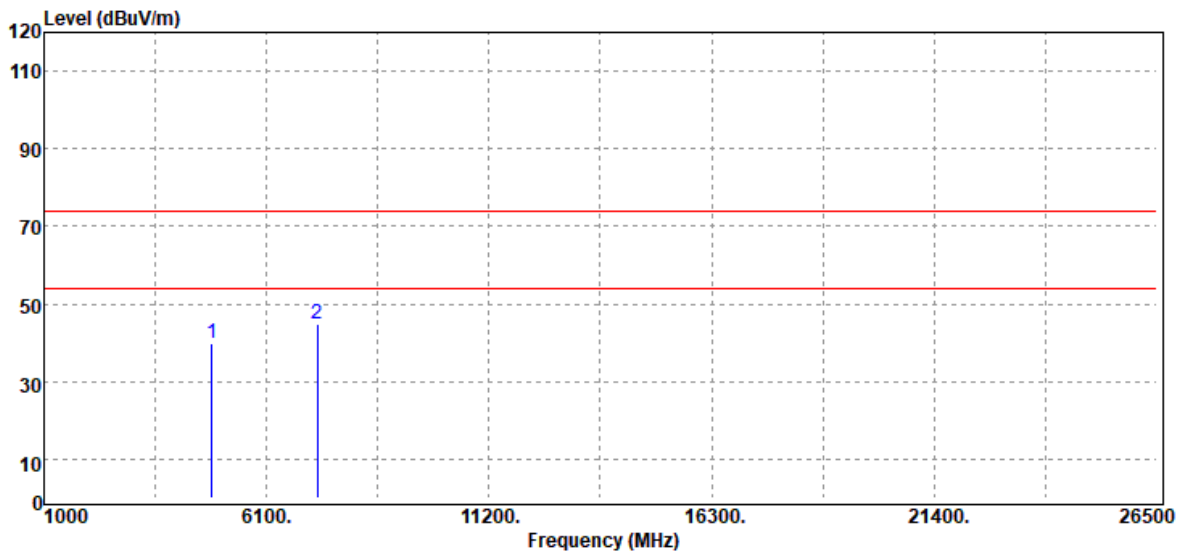
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4844.00	Peak	34.16	5.73	39.89	74.00	-34.11
7266.00	Peak	31.83	13.21	45.04	74.00	-28.96
N/A						

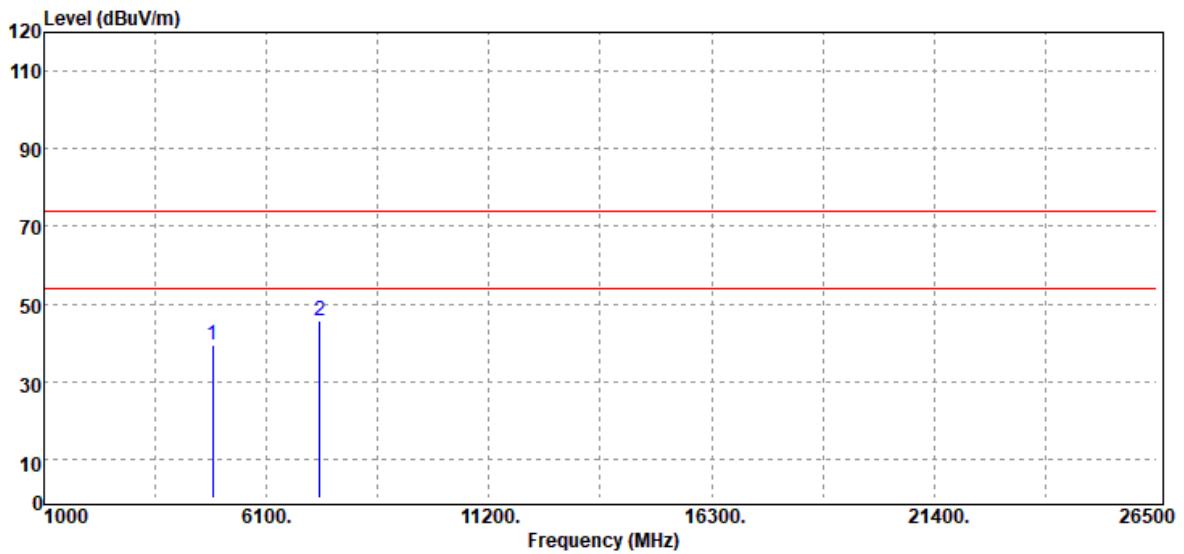
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	33.46	5.92	39.38	74.00	-34.62
7311.00	Peak	32.23	13.26	45.49	74.00	-28.51
N/A						

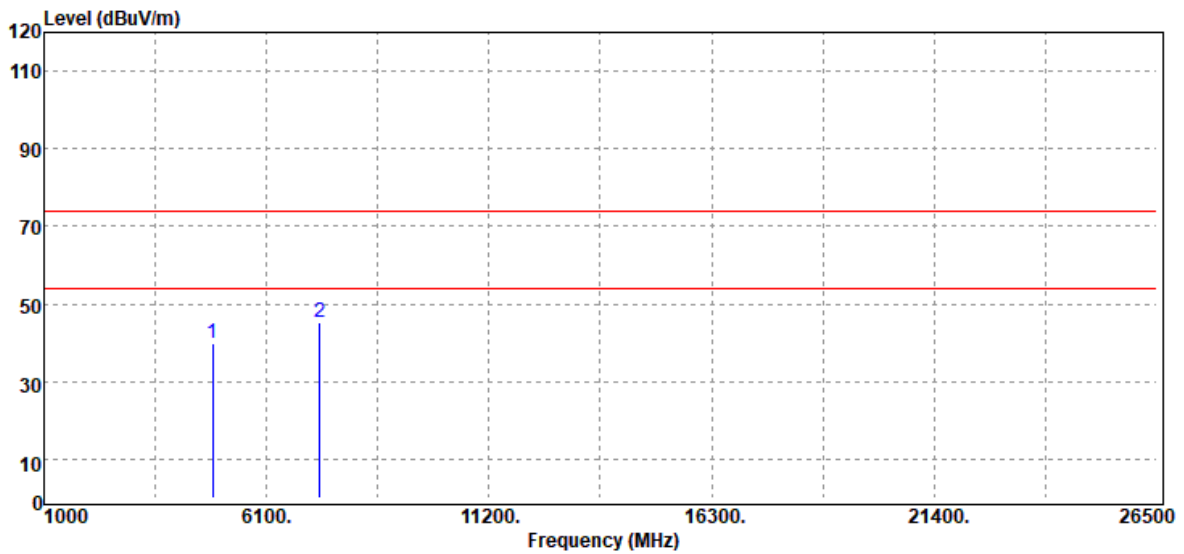
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	33.98	5.92	39.90	74.00	-34.10
7311.00	Peak	31.93	13.26	45.19	74.00	-28.81
N/A						

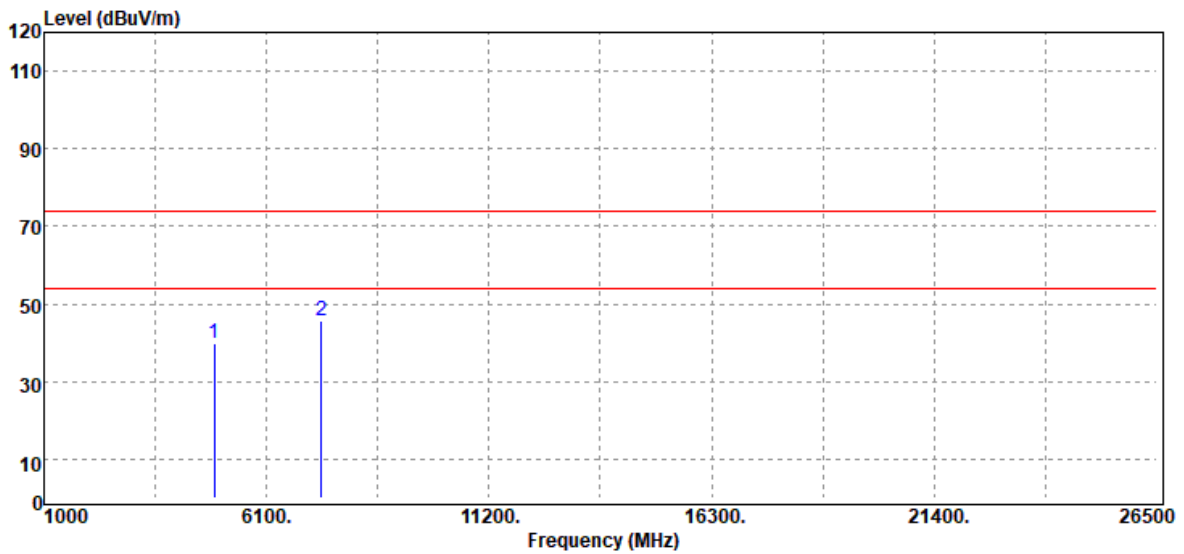
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4904.00	Peak	33.57	6.17	39.74	74.00	-34.26
7356.00	Peak	32.52	13.05	45.57	74.00	-28.43
N/A						

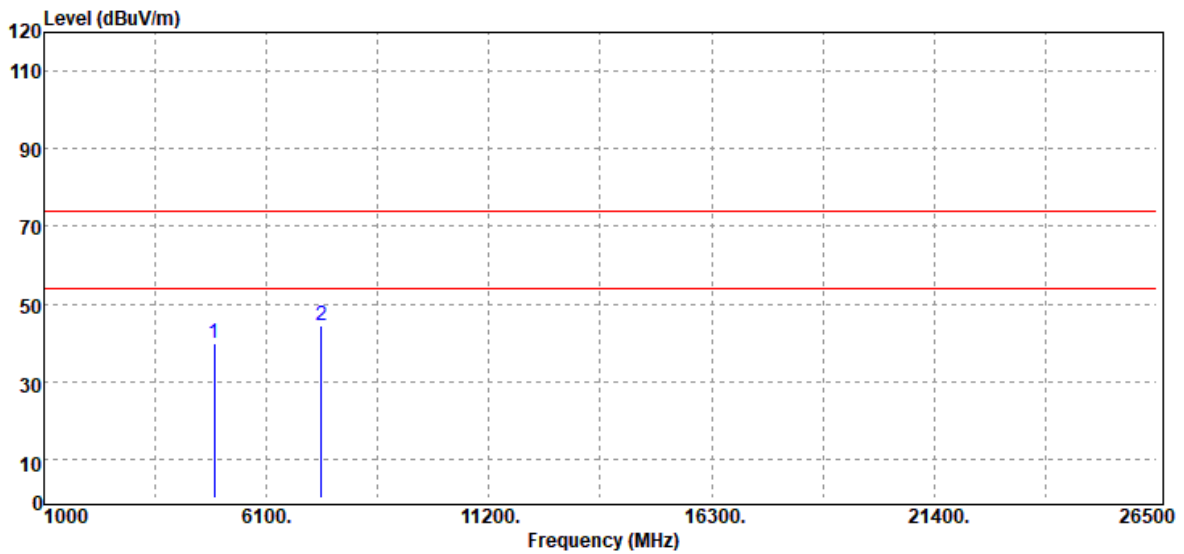
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210429W04-RP

Ref. No.: T200529W01-RP

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	23.0(°C)/ 40%RH
Test Item	Harmonic	Test Date	May 27, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4904.00	Peak	33.60	6.17	39.77	74.00	-34.23
7356.00	Peak	31.33	13.05	44.38	74.00	-29.62
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

**- End of Test Report -**