

## TEST REPORT

**Applicant:** RADIOSHACK WORLDWIDE CORP.

**Address:** Building AFRA, Ave. Samuel Lewis and street 54, Panama City,  
Panama 5, Republic of Panama

**Product Name:** PC series-WLAN card

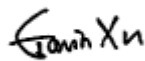
**FCC ID:** 2BDUR-2604777

**Standard(s):** 47 CFR Part 15, Subpart C(15.247)  
ANSI C63.10-2013  
KDB 558074 D01 15.247 Meas Guidance v05r02

**Report Number:** DG1231214-75506E-RF-00

**Report Date:** 2024/1/10

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



**Reviewed By:** Gavin Xu  
Title: RF Engineer



**Approved By:** Ivan Cao  
Title: EMC Manager

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**Bay Area Compliance Laboratories Corp. (Dongguan)**  
No.12, Pulong East 1<sup>st</sup> Road, Tangxia Town, Dongguan, Guangdong, China

Tel: +86-769-86858888  
Fax: +86-769-86858891

[www.baclcorp.com.cn](http://www.baclcorp.com.cn)

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## DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	DG1231214-75506E-RF-00	Original Report	2024/1/10

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

<b>EUT Name:</b>	PC series-WLAN card
<b>EUT Model:</b>	2604777
<b>Operation Frequency:</b>	2412-2462MHz (802.11b/g/n ht20), 2422-2452MHz (802.11n ht40)
<b>Maximum Peak Output Power (Conducted):</b>	21.137dBm
<b>Modulation Type:</b>	802.11b:DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
<b>Rated Input Voltage:</b>	DC 5V From USB system
<b>Serial Number:</b>	2F7F-3 (For RF Conducted Test) 2F7F-1(For Radiated Spurious Emission/AC Line conducted Emission Test)
<b>EUT Received Date:</b>	2023/12/15
<b>EUT Received Status:</b>	Good

### 1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

### 1.3 Antenna Information Detail ▲

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
ZHUHAI JIELI TECHNOLOGY CO., LTD	PCB	50	2.4~2.5GHz	1.9 dBi

The Method of §15.203 Compliance:

- Antenna was permanently attached to the unit.
- Antenna uses a unique type of connector to attach to the EUT.
- Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

### 1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

## 2. DESCRIPTION OF TEST CONFIGURATION

### 2.1 Operation Frequency Detail

For 802.11b/g/n ht20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	<b>2412</b>	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	<b>2462</b>
6	<b>2437</b>	/	/

For 802.11n ht40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	<b>2422</b>	7	2442
4	2427	8	2447
5	2432	9	<b>2452</b>
6	<b>2437</b>	/	/

### 2.2 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The following summary table is showing all test modes to demonstrate in compliance with the standard:

Test Items	Test Modes
<b>RF Conducted</b>	Mode 1: Transmitting 802.11b
	Mode 2: Transmitting 802.11g
	Mode 3: Transmitting 802.11n ht20
	Mode 4: Transmitting 802.11n ht40
<b>Radiated Spurious Emission</b>	Mode 1: Transmitting 802.11b
	Mode 2: Transmitting 802.11g
	Mode 3: Transmitting 802.11n ht20
	Mode 4: Transmitting 802.11n ht40
<b>AC Line Conducted Emission</b>	Test was performed at the channel and mode with maximum output power
Note: Mode 1, mode 2, mode 3 and mode 4 were tested with the frequencies in bold in section 2.1.	

### 2.3 EUT Exercise Software

EUT Exercise Software:		Engineering mode		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲ :				
Test Modes	Data Rate	Power Level Setting		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	18	18	18
802.11g	6Mbps	18	18	18
802.11n ht20	MCS0	18	18	18
802.11n ht40	MCS0	15	15	15
The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.				

### 2.4 Support Equipment List and Details

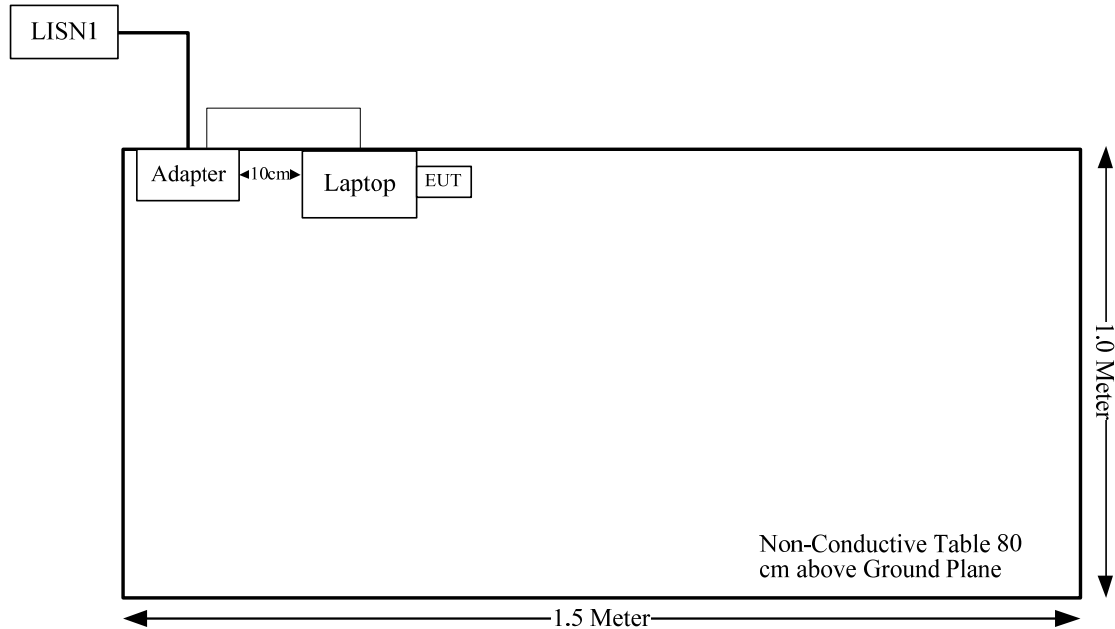
Manufacturer	Description	Model	Serial Number
DELL	Laptop	E6410	GMLGPM1
DELL	Adapter	HA65NM130	CN-OFPC2Y-CH200-14M-061U-A07

### 2.5 Support Cable List and Details

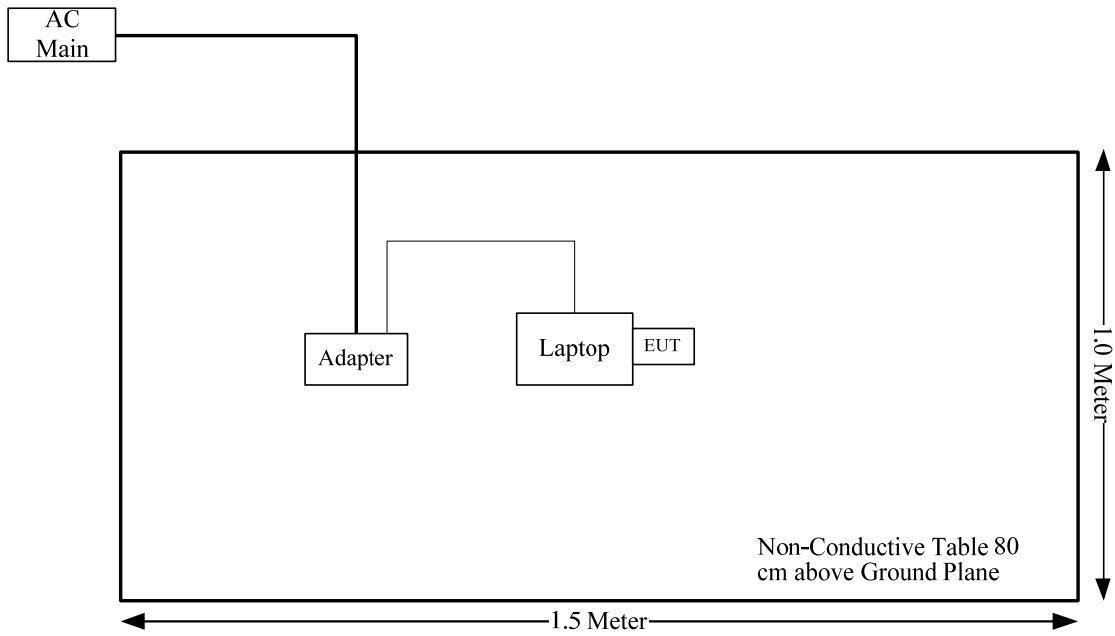
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	No	No	1	Adapter	Laptop

### 2.6 Block Diagram of Test Setup

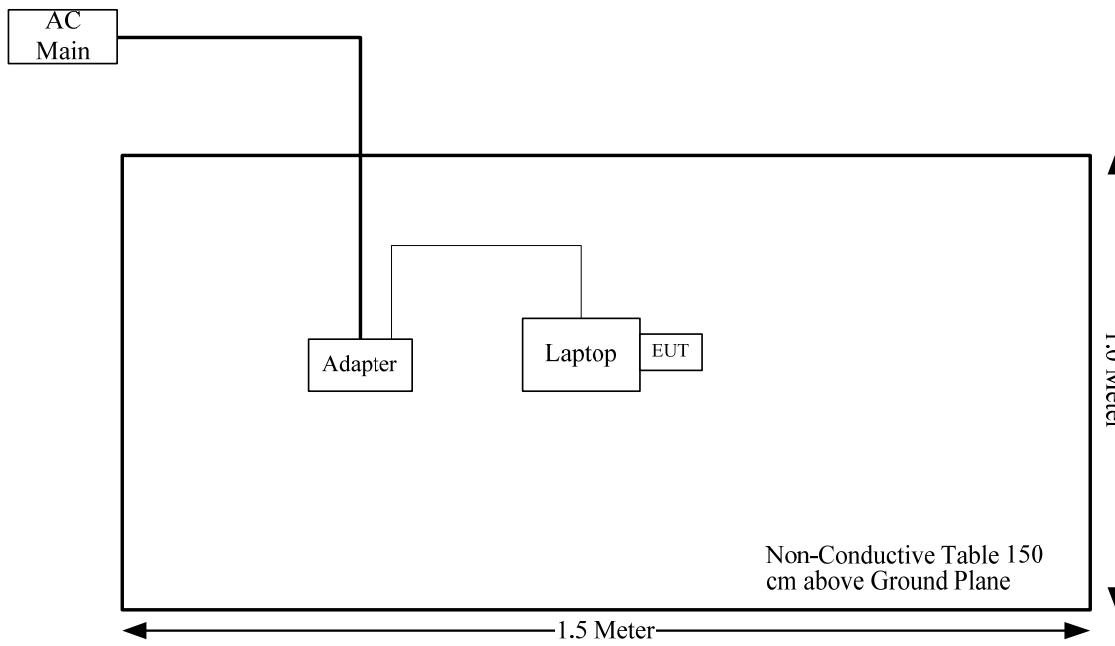
AC Power Lines Conducted Emission:



Radiated Spurious Emissions:  
Below 1GHz:



Above 1GHz:





## 2.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

## 2.8 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

### 3. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	Minimum 6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth Of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

## 4. REQUIREMENTS AND TEST PROCEDURES

### 4.1 AC Line Conducted Emissions

#### 4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

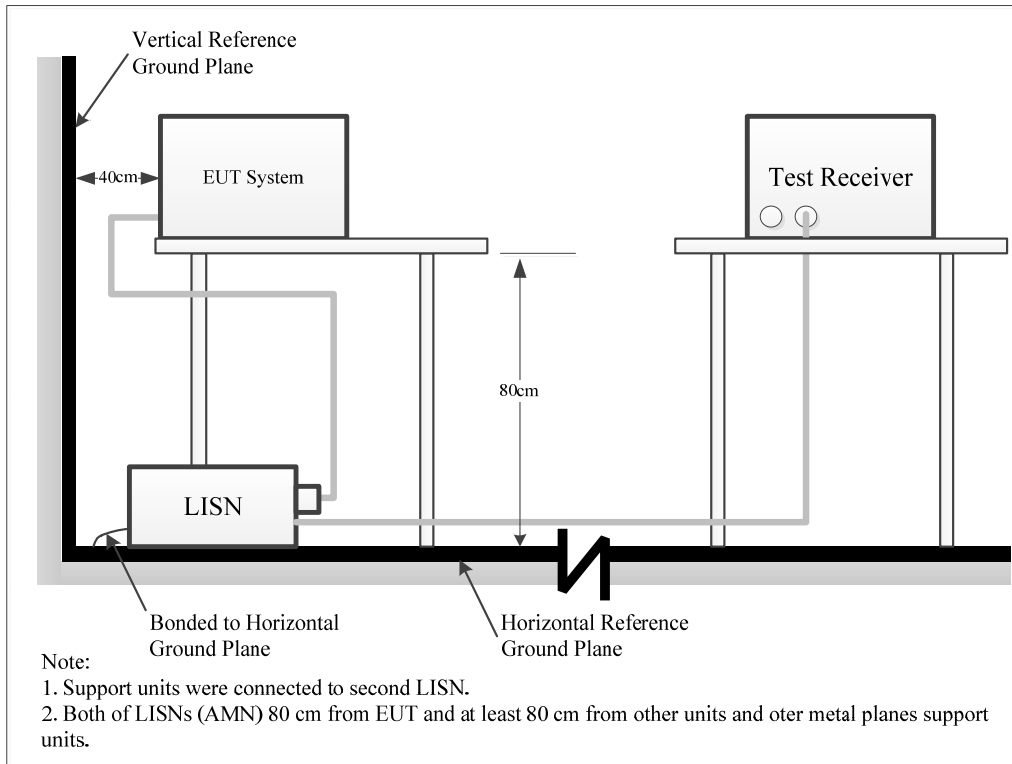
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

**4.1.2 EUT Setup**



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

**4.1.3 EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

#### 4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

#### 4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

#### 4.1.6 Test Result

Please refer to section 5.1.

## 4.2 Radiation Spurious Emissions

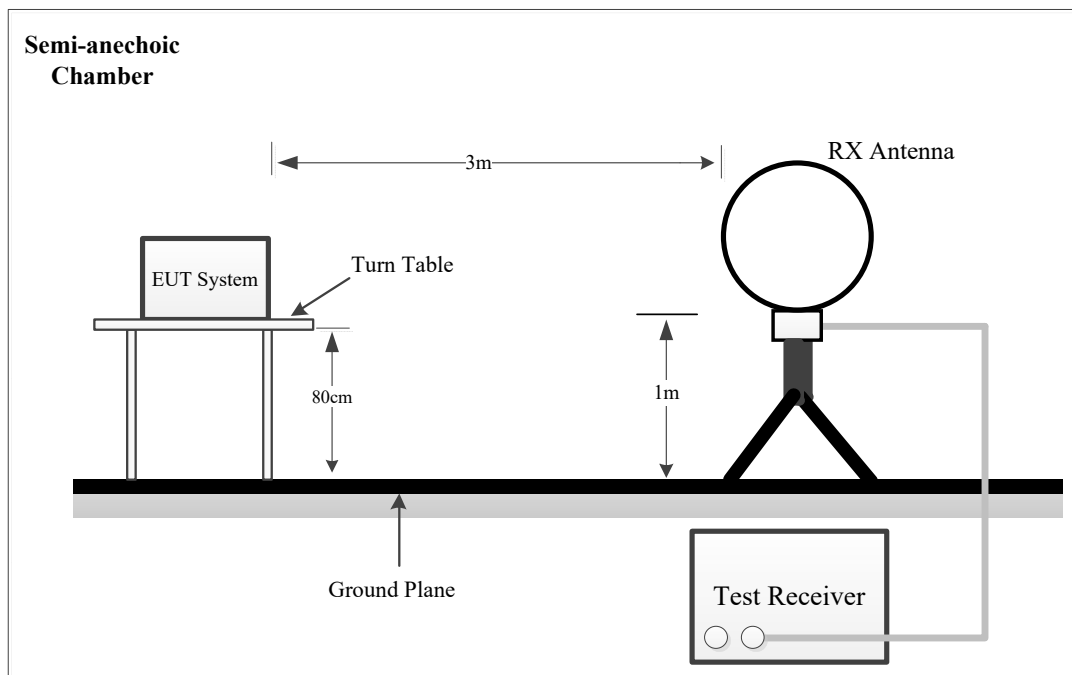
### 4.2.1 Applicable Standard

FCC §15.247 (d);

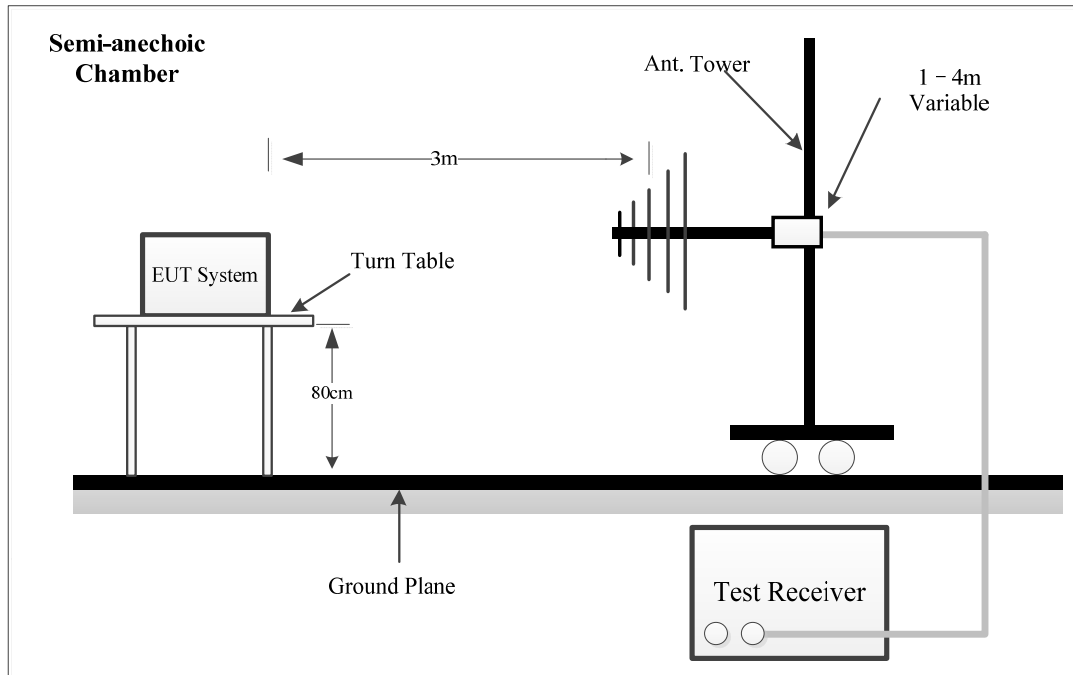
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 4.2.2 EUT Setup

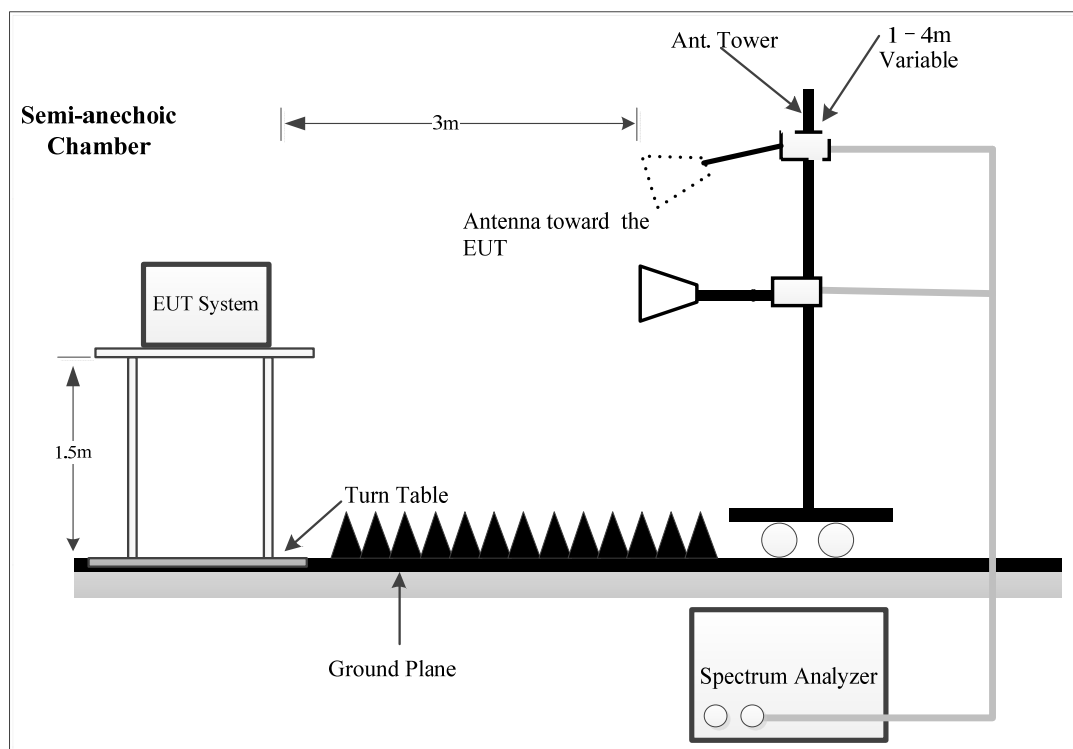
9kHz~30MHz:



**30MHz~1GHz:**



**Above 1GHz:**



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

#### 4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W
9 kHz – 150 kHz	QP/AV	200 Hz	1 kHz	200 Hz
150 kHz – 30 MHz	QP/AV	9 kHz	30 kHz	9 kHz
30 MHz – 1000 MHz	PK	100 kHz	300 kHz	/
	QP	/	/	120 kHz

1GHz- 25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	$\geq 1/T$

Note: T is minimum transmission duration

If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

#### 4.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

#### 4.2.5 Corrected Result & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

#### 4.2.6 Test Result

Please refer to section 5.2.



### 4.3 Minimum 6 dB Emission Bandwidth

#### 4.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

#### 4.3.2 EUT Setup



#### 4.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 4.3.4 Test Result

Please refer to section 5.3.

## 4.4 99% Occupied Bandwidth

### 4.4.1 EUT Setup



### 4.4.2 Test Procedure

According to ANSI C63.10-2013 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

### 4.4.3 Test Result

Please refer to section 5.4.

## 4.5 Maximum Conducted Output Power

### 4.5.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### 4.5.2 EUT Setup



### 4.5.3 Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

- a) Set the EUT in transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- c) Add a correction factor to the display.
- d) Set the power meter to test peak output power, record the result.

According to ANSI C63.10-2013 Section 11.9.2.3.2

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

### 4.5.4 Test Result

Please refer to section 5.5.

## 4.6 Maximum Power Spectral Density

### 4.6.1 Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 4.6.2 EUT Setup



### 4.6.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set VBW  $\geq [3 \times \text{RBW}]$ .
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

### 4.6.4 Test Result

Please refer to section 5.6.

## 4.7 100 kHz Bandwidth of Frequency Band Edge

### 4.7.1 Applicable Standard

FCC §15.247 (d);

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 4.7.2 EUT Setup



### 4.7.3 Test Procedure

According to ANSI C63.10-2013 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

### 4.7.4 Test Result

Please refer to section 5.7.

## 4.8 Duty Cycle

### 4.8.1 EUT Setup



### 4.8.2 Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set  $RBW \geq OBW$  if possible; otherwise, set  $RBW$  to the largest available value.
- 3) Set  $VBW \geq RBW$ . Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both  $RBW$  and  $VBW$  are  $> 50/T$  and the number of sweep points across duration  $T$  exceeds 100. (For example, if  $VBW$  and/or  $RBW$  are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if  $T \leq 16.7 \mu s$ .)

### 4.8.3 Judgment

Report Only.

## **4.9 Antenna Requirement**

### **4.9.1 Applicable Standard**

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **4.9.2 Judgment**

**Compliant.** Please refer to the Antenna Information detail in Section 1.

## 5. Test DATA AND RESULTS

### 5.1 AC Line Conducted Emissions

Serial Number:	2F7F-1	Test Date:	2023/12/20
Test Site:	CE	Test Mode:	Transmitting
Tester:	Lane Sun	Test Result:	Pass

#### Environmental Conditions:

Temperature: (°C)	18.6	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101.8
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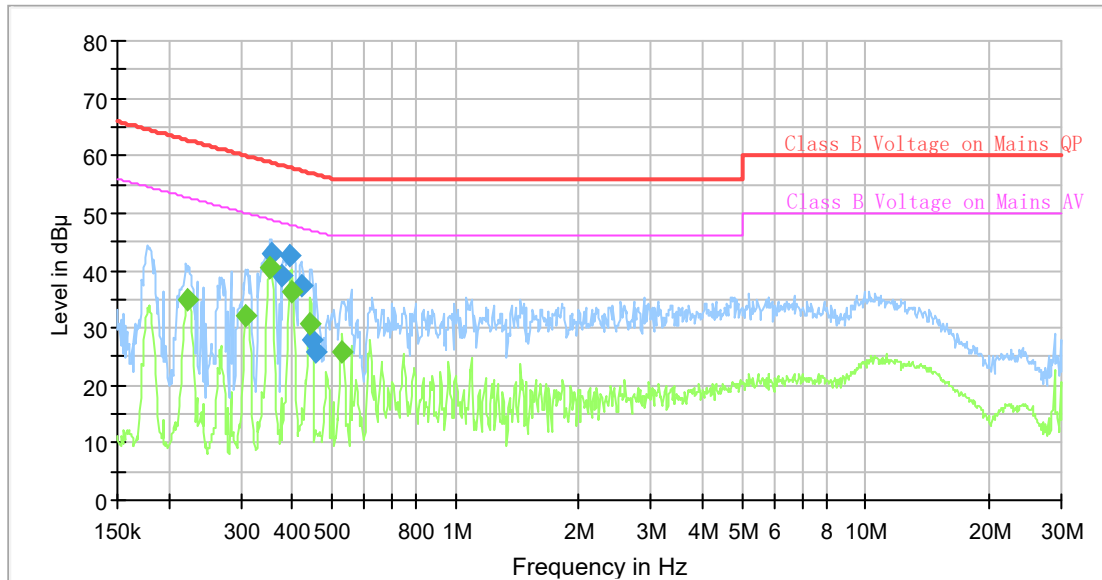
#### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2023/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2023/9/5	2024/9/4
R&S	EMI Test Receiver	ESCI	100035	2023/8/18	2024/8/17
R&S	Test Software	EMC32	V9.10.00	N/A	N/A

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).



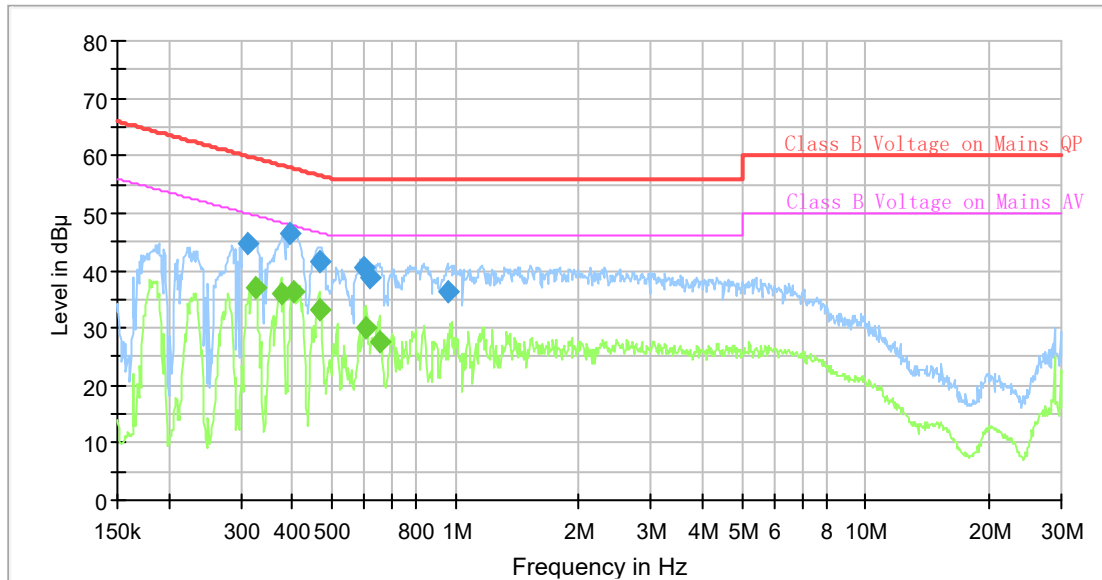
Project No: DG1231214-75506E-RF  
 Test Engineer: Lane Sun  
 Test Date: 2023-12-20  
 Port: L  
 Test Mode: Transmitting(802.11n20 2437MHz was tested)  
 Power Source: AC 120V/60Hz



### Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.223551	---	35.00	52.69	17.69	9.000	L1	10.8
0.309151	---	32.11	49.99	17.88	9.000	L1	10.8
0.353715	---	40.35	48.87	8.52	9.000	L1	10.8
0.355484	42.92	---	58.83	15.91	9.000	L1	10.8
0.375532	39.05	---	58.38	19.33	9.000	L1	10.8
0.394736	42.54	---	57.96	15.42	9.000	L1	10.8
0.398694	---	36.26	47.88	11.62	9.000	L1	10.8
0.421178	37.49	---	57.42	19.93	9.000	L1	10.8
0.442717	---	30.77	47.01	16.24	9.000	L1	10.8
0.444931	27.78	---	56.97	29.19	9.000	L1	10.8
0.456166	25.69	---	56.76	31.07	9.000	L1	10.8
0.529791	---	25.78	46.00	20.22	9.000	L1	10.8

Project No: DG1231214-75506E -RF  
 Test Engineer: Lane Sun  
 Test Date: 2023-12-20  
 Port: N  
 Test Mode: Transmitting(802.11n20 2437MHz was tested)  
 Power Source: AC 120V/60Hz



### Final Result

Frequency (MHz)	QuasiPeak (dB μV)	Average (dB μV)	Limit (dB μV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.312250	44.73	---	59.91	15.18	9.000	N	10.8
0.324961	---	37.11	49.58	12.47	9.000	N	10.8
0.375532	---	35.95	48.38	12.43	9.000	N	10.8
0.396710	46.42	---	57.92	11.50	9.000	N	10.8
0.404704	---	36.18	47.76	11.58	9.000	N	10.8
0.465358	41.66	---	56.60	14.94	9.000	N	10.8
0.465358	---	33.35	46.60	13.25	9.000	N	10.8
0.600145	40.67	---	56.00	19.33	9.000	N	10.7
0.606162	---	30.14	46.00	15.86	9.000	N	10.7
0.618376	38.67	---	56.00	17.33	9.000	N	10.7
0.653250	---	27.53	46.00	18.47	9.000	N	10.7
0.959105	36.45	---	56.00	19.55	9.000	N	10.8

**5.2 Radiation Spurious Emissions**

Serial Number:	2F7F-1	Test Date:	Below 1GHz: 2023/12/25 Above 1GHz: 2023/12/27~2024/1/11
Test Site:	Chamber 10m, Chamber B	Test Mode:	Transmitting
Tester:	Leesin Xiang, Bill Yang	Test Result:	Pass

<b>Environmental Conditions:</b>					
Temperature: (°C)	16.8~22.8	Relative Humidity: (%)	32~48	ATM Pressure: (kPa)	101.1~102.2

**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
9kHz~1000MHz					
EMCO	Passive Loop Antenna	6512	9706-1206	2021/3/5	2024/3/5
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2024/9/5
Narda	Attenuator	779-6dB	04269	2023/9/6	2024/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2023/8/1	2024/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2023/8/1	2024/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2023/8/1	2024/7/31
Sonoma	Amplifier	310N	185914	2023/8/1	2024/7/31
R&S	EMI Test Receiver	ESCI	100224	2023/8/18	2024/8/17
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2024/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2023/11/17	2024/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
AH	Preamplifier	PAM-0118P	469	2023/8/19	2024/8/18
AH	Preamplifier	PAM-1840VH	191	2023/9/7	2024/9/6
R&S	Spectrum Analyzer	FSV40	101944	2023/10/18	2024/10/17
E-Microwave	Band Rejection Filter	OBSF-2400-2483.5-S	OE01601525	2023/6/16	2024/6/15
Mini Circuits	High Pass Filter	VHF-6010+	31118	2023/6/16	2024/6/15
Audix	Test Software	E3	191218 (V9)	N/A	N/A

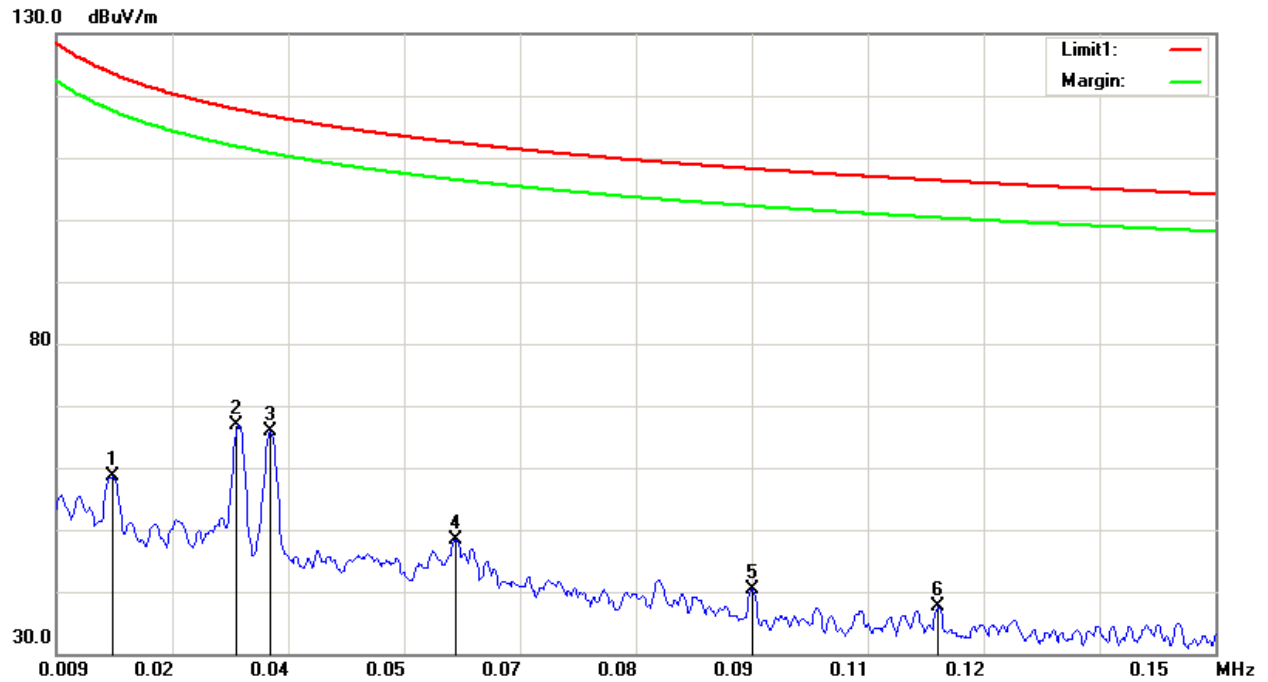
\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data:**

Please refer to the below table and plots.  
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

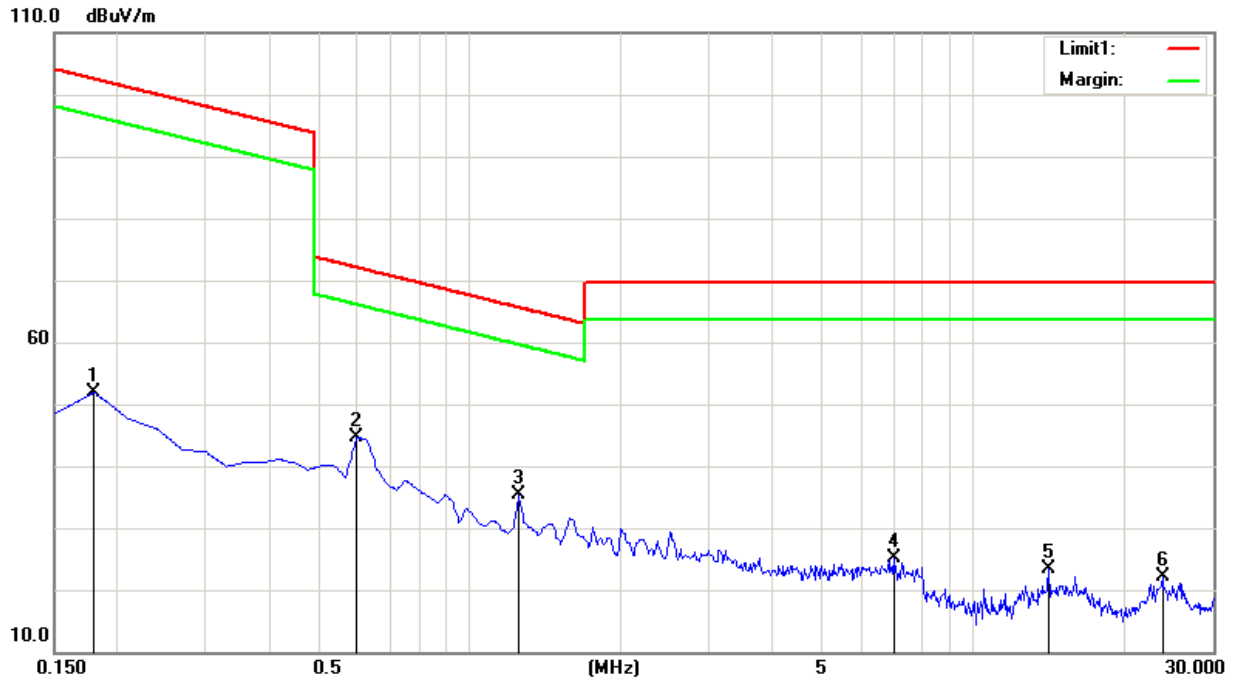
1) 9kHz~30MHz (Maximum output power mode\_802.11n20 mode (The worst is Parallel))

Project No: DG1231214-75506E-RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Parallel  
 Test Mode: Transmitting\_802.11n20 Low channel  
 Power Source: AC 120V/60Hz



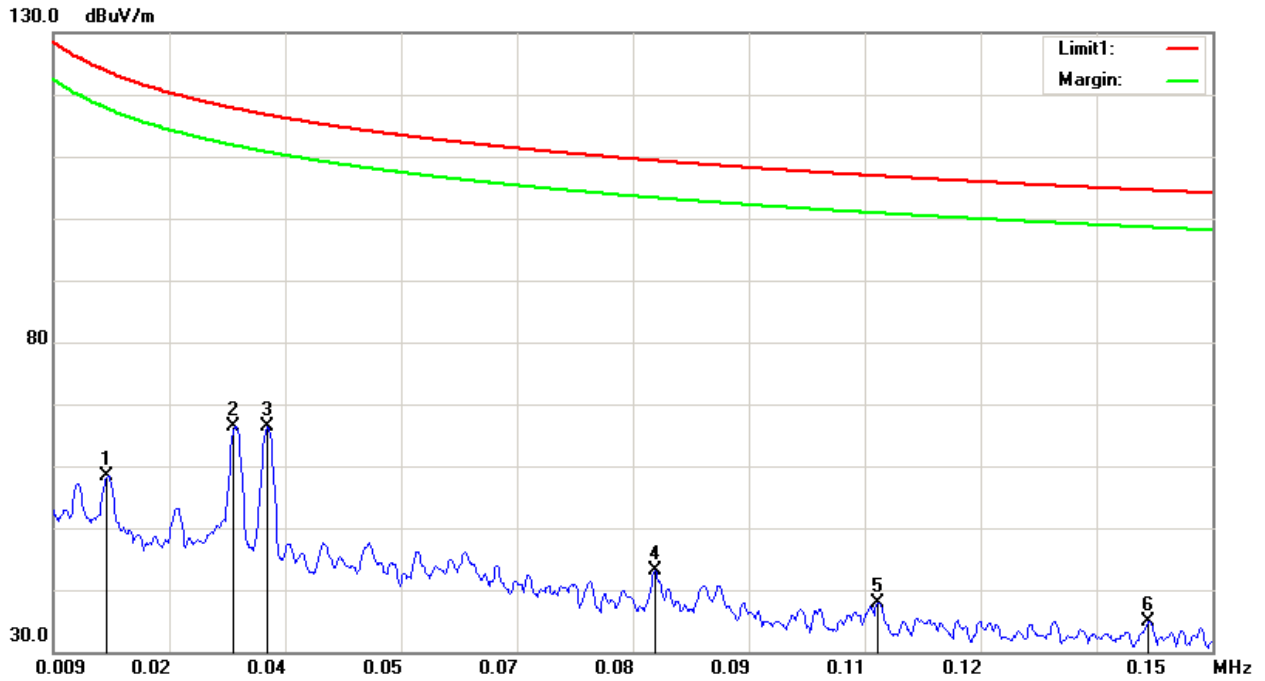
No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	0.0160	7.53	peak	51.16	58.69	123.52	64.83
2	0.0310	19.52	peak	47.37	66.89	117.78	50.89
3	0.0350	19.17	peak	46.66	65.83	116.72	50.89
4	0.0575	5.69	peak	42.77	48.46	112.41	63.95
5	0.0936	3.88	peak	36.51	40.39	108.18	67.79
6	0.1163	3.07	peak	34.50	37.57	106.29	68.72

Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Parallel  
 Test Mode: Transmitting\_802.11n20 Low channel  
 Power Source: AC 120V/60Hz



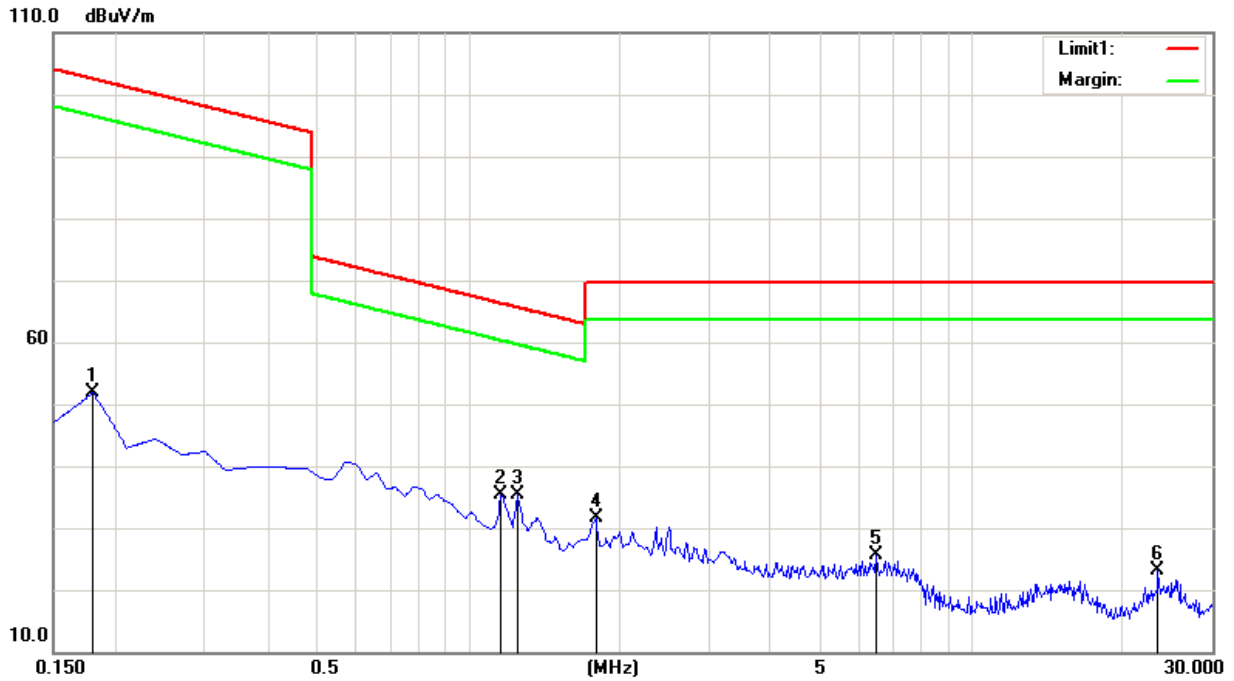
No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	0.1796	20.92	peak	31.00	51.92	102.52	50.60
2	0.5977	22.21	peak	22.49	44.70	72.07	27.37
3	1.2542	19.96	peak	15.44	35.40	65.60	30.20
4	6.9557	19.50	peak	5.51	25.01	69.54	44.53
5	14.1494	18.90	peak	4.46	23.36	69.54	46.18
6	23.8506	18.06	peak	4.18	22.24	69.54	47.30

Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Parallel  
 Test Mode: Transmitting\_802.11n20 Middle channel  
 Power Source: AC 120V/60Hz



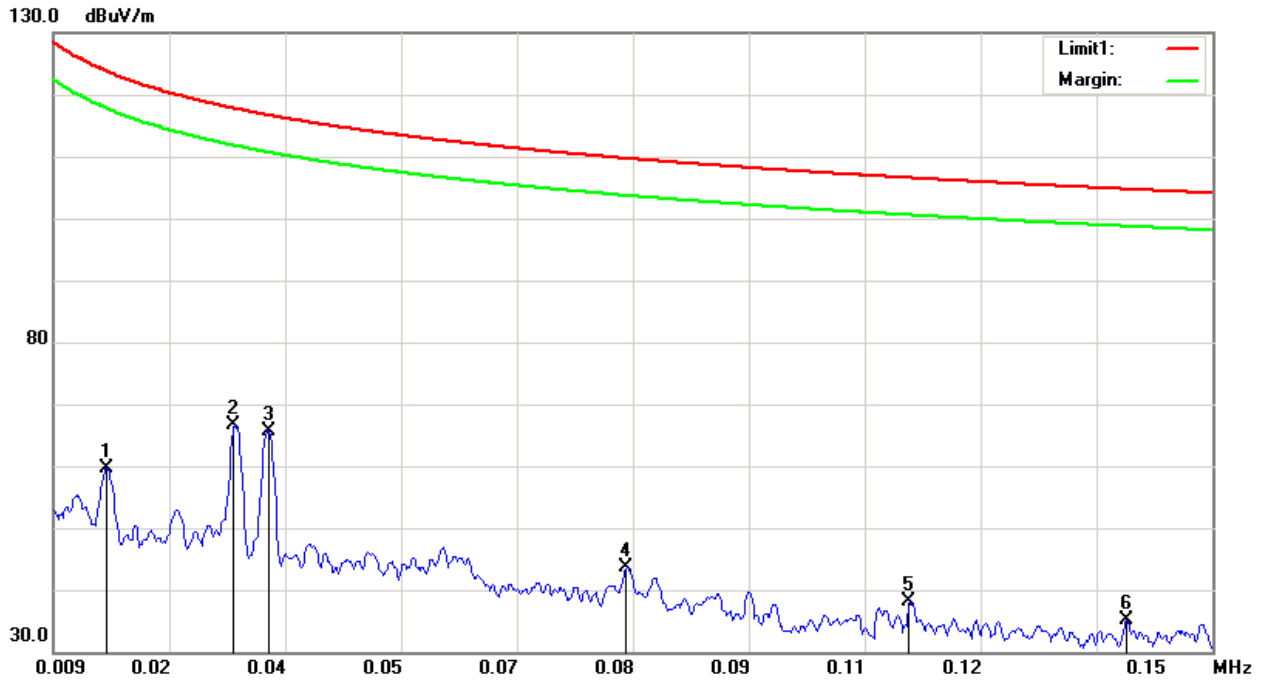
No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	0.0154	7.06	peak	51.33	58.39	123.85	65.46
2	0.0310	19.01	peak	47.37	66.38	117.78	51.40
3	0.0350	19.63	peak	46.66	66.29	116.72	50.43
4	0.0821	4.47	peak	38.55	43.02	109.32	66.30
5	0.1092	3.10	peak	34.89	37.99	106.84	68.85
6	0.1421	1.85	peak	33.08	34.93	104.55	69.62

Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Parallel  
 Test Mode: Transmitting\_802.11n20 Middle channel  
 Power Source: AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	0.1796	20.90	peak	31.00	51.90	102.52	50.62
2	1.1650	19.47	peak	15.83	35.30	66.24	30.94
3	1.2542	19.94	peak	15.44	35.38	65.60	30.22
4	1.7918	18.55	peak	13.05	31.60	69.54	37.94
5	6.4782	19.82	peak	5.70	25.52	69.54	44.02
6	23.4330	19.03	peak	4.17	23.20	69.54	46.34

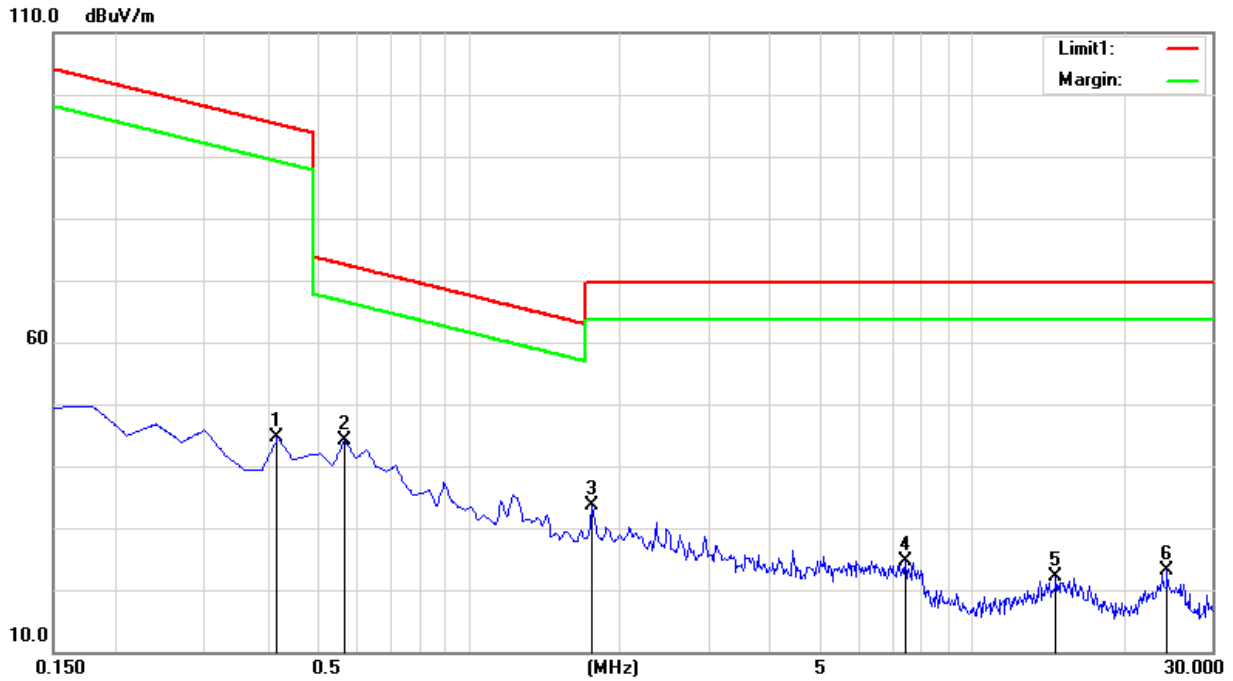
Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Parallel  
 Test Mode: Transmitting\_802.11n20 High channel  
 Power Source: AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	0.0154	8.27	peak	51.33	59.60	123.85	64.25
2	0.0310	19.32	peak	47.37	66.69	117.78	51.09
3	0.0352	19.06	peak	46.63	65.69	116.67	50.98
4	0.0787	4.49	peak	39.14	43.63	109.68	66.05
5	0.1131	3.49	peak	34.68	38.17	106.53	68.36
6	0.1396	1.80	peak	33.22	35.02	104.70	69.68



Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Parallel  
 Test Mode: Transmitting\_802.11n20 High channel  
 Power Source: AC 120V/60Hz

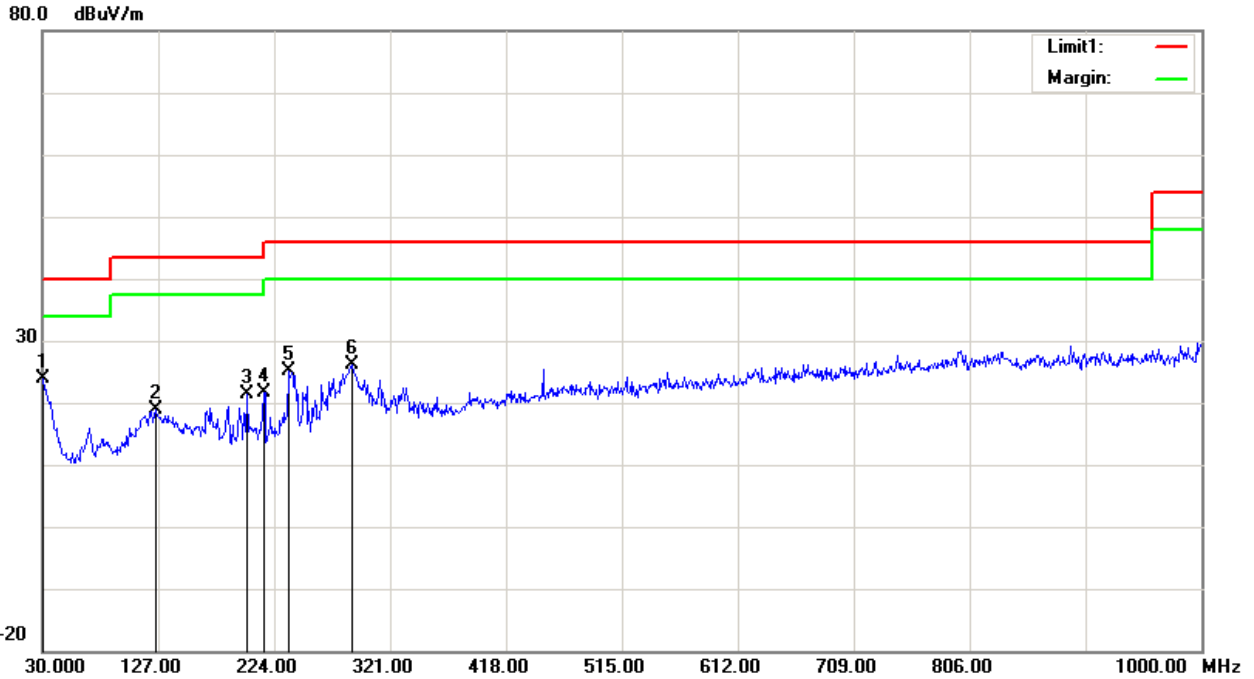


No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	0.4187	20.84	peak	23.75	44.59	95.17	50.58
2	0.5675	21.40	peak	22.81	44.21	72.52	28.31
3	1.7620	20.53	peak	13.18	33.71	69.54	35.83
4	7.4035	19.32	peak	5.33	24.65	69.54	44.89
5	14.6870	17.79	peak	4.45	22.24	69.54	47.30
6	24.5076	18.93	peak	4.18	23.11	69.54	46.43

The amplitude of spurious emissions is attenuated more than 20 dB below the permissible value.

1) 30MHz-1GHz (Maximum output power mode (802.11n20 mode))

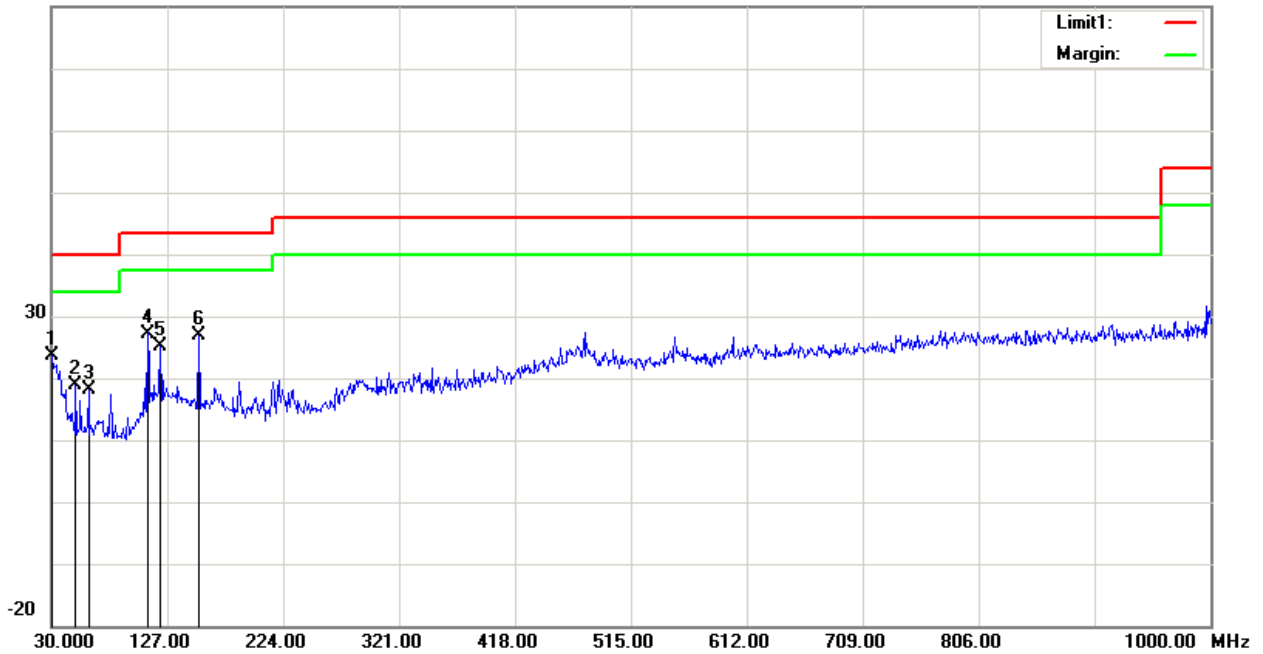
Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Horizontal  
 Test Mode: Transmitting\_802.11n20 Low channel  
 Power Source: AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.9700	28.19	peak	-4.31	23.88	40.00	16.12
2	125.0600	28.53	peak	-9.61	18.92	43.50	24.58
3	201.6900	32.95	peak	-11.69	21.26	43.50	22.24
4	215.2700	34.24	peak	-12.62	21.62	43.50	21.88
5	236.6100	37.11	peak	-11.94	25.17	46.00	20.83
6	288.9900	35.69	peak	-9.58	26.11	46.00	19.89

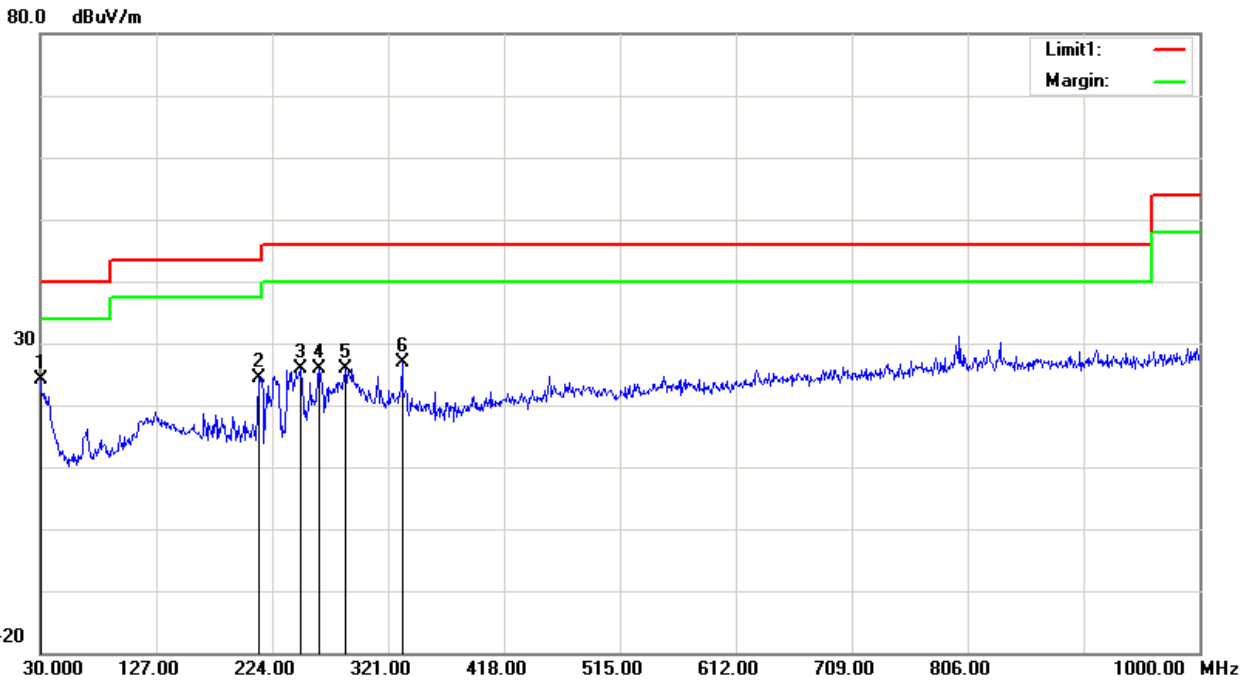
Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Vertical  
 Test Mode: Transmitting\_802.11n20 Low channel  
 Power Source: AC 120V/60Hz

80.0 dBuV/m



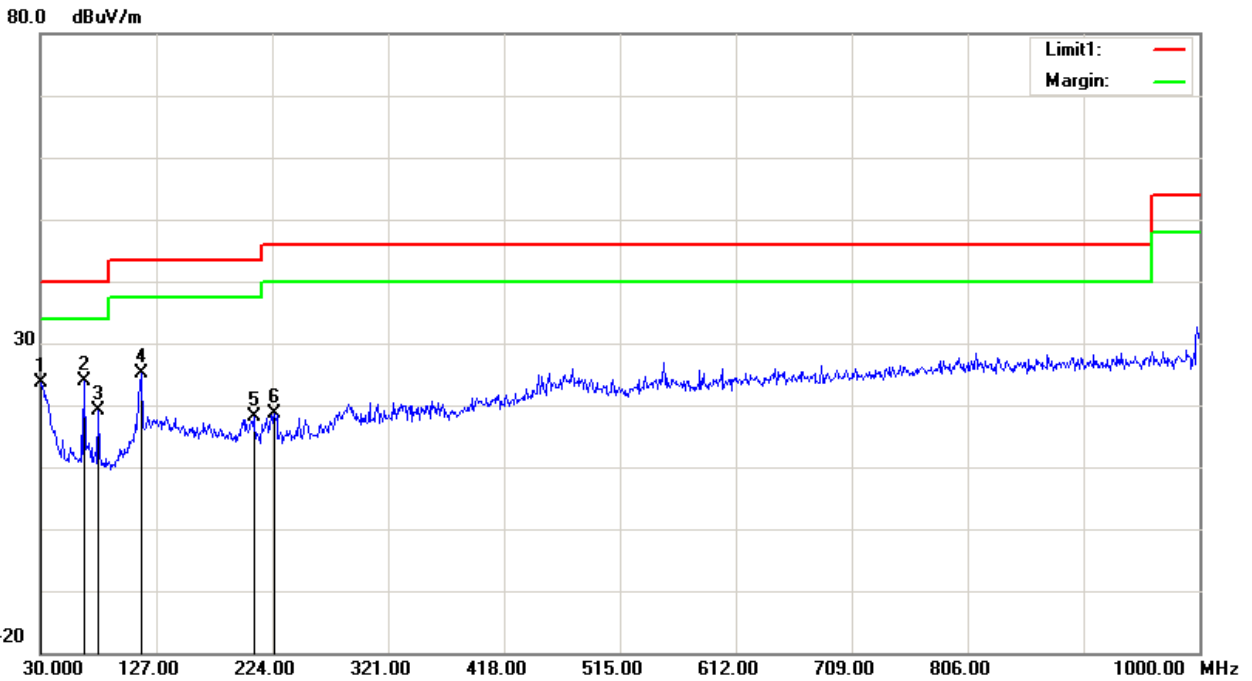
No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.0000	27.51	peak	-3.80	23.71	40.00	16.29
2	50.3700	35.37	peak	-16.47	18.90	40.00	21.10
3	61.0400	34.66	peak	-16.61	18.05	40.00	21.95
4	110.5100	38.53	peak	-11.28	27.25	43.50	16.25
5	121.1800	35.06	peak	-9.84	25.22	43.50	18.28
6	153.1900	37.98	peak	-10.99	26.99	43.50	16.51

Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Horizontal  
 Test Mode: Transmitting\_802.11n20 Middle channel  
 Power Source: AC 120V/60Hz



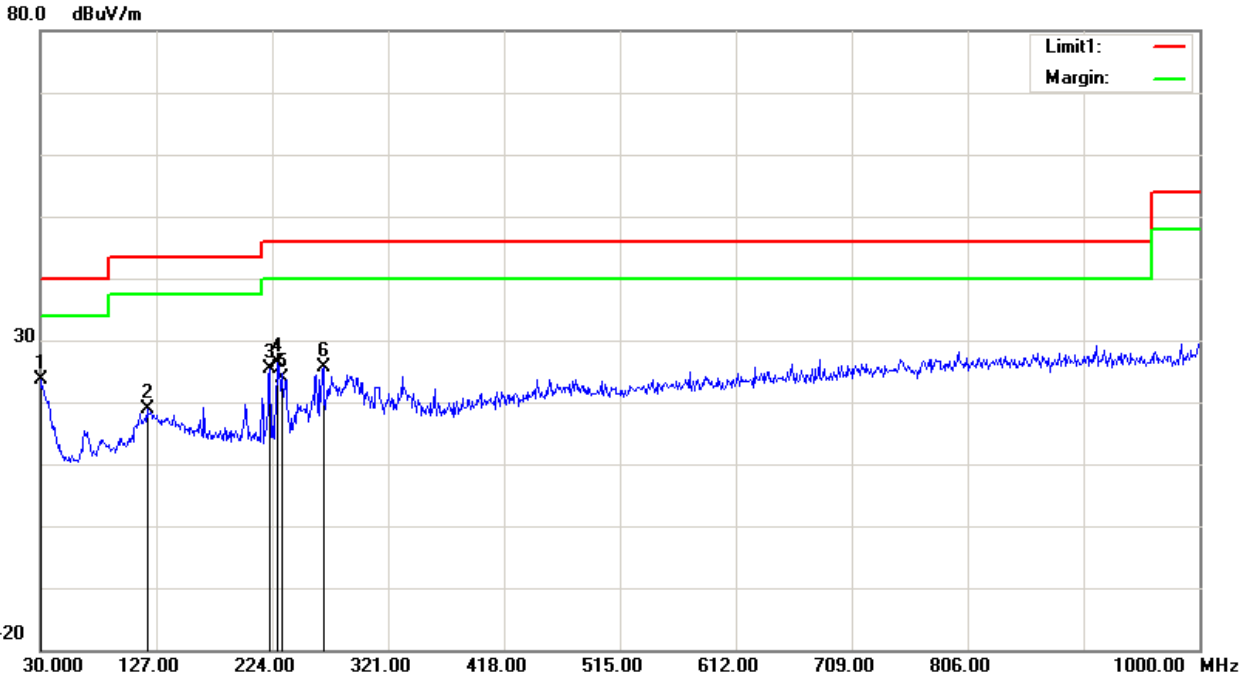
No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.0000	27.87	peak	-3.80	24.07	40.00	15.93
2	213.3300	36.96	peak	-12.61	24.35	43.50	19.15
3	247.2800	37.40	peak	-11.52	25.88	46.00	20.12
4	262.8000	36.63	peak	-10.75	25.88	46.00	20.12
5	285.1100	35.52	peak	-9.60	25.92	46.00	20.08
6	332.6400	35.70	peak	-8.83	26.87	46.00	19.13

Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Vertical  
 Test Mode: Transmitting\_802.11n20 Middle channel  
 Power Source: AC 120V/60Hz



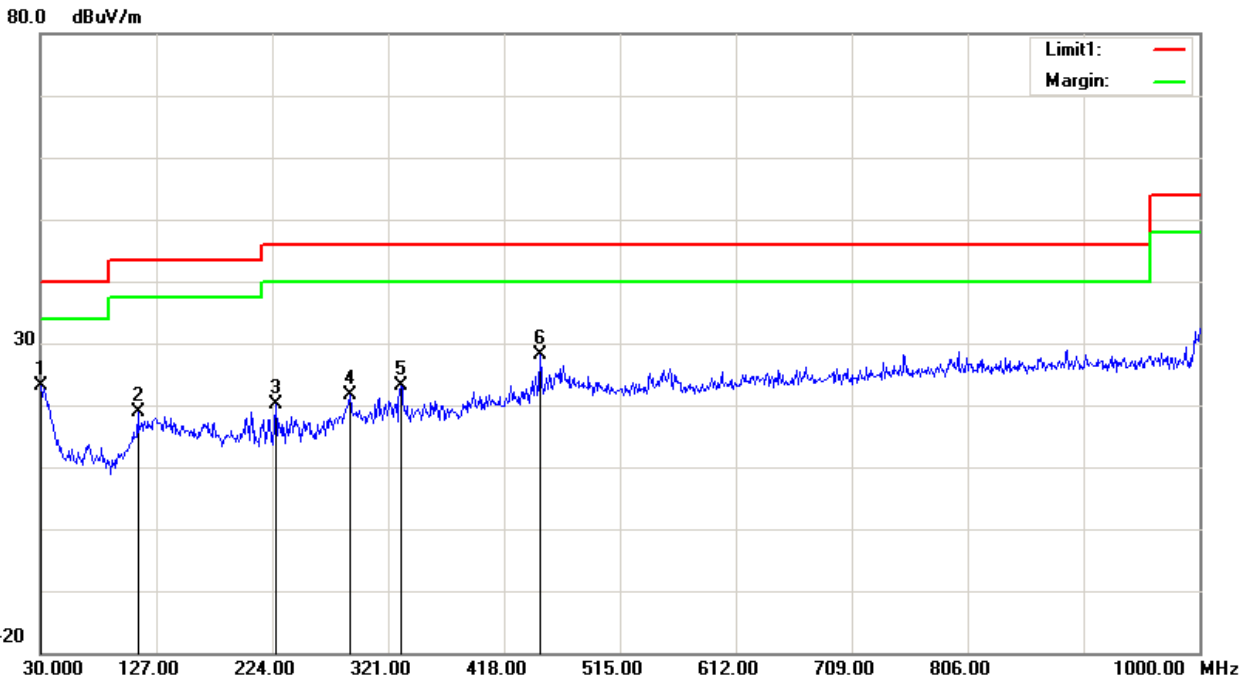
No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.0000	27.45	peak	-3.80	23.65	40.00	16.35
2	66.8600	40.17	peak	-16.40	23.77	40.00	16.23
3	78.5000	35.38	peak	-16.36	19.02	40.00	20.98
4	114.3900	35.63	peak	-10.59	25.04	43.50	18.46
5	208.4800	30.48	peak	-12.39	18.09	43.50	25.41
6	225.9400	31.01	peak	-12.37	18.64	46.00	27.36

Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Horizontal  
 Test Mode: Transmitting\_802.11n20 High channel  
 Power Source: AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.0000	27.37	peak	-3.80	23.57	40.00	16.43
2	119.2400	28.80	peak	-9.98	18.82	43.50	24.68
3	222.0600	37.90	peak	-12.47	25.43	46.00	20.57
4	228.8500	38.70	peak	-12.27	26.43	46.00	19.57
5	232.7300	35.97	peak	-12.12	23.85	46.00	22.15
6	266.6800	35.87	peak	-10.33	25.54	46.00	20.46

Project No: DG1231214-75506E -RF  
 Test Engineer: Leesin Xiang  
 Test Date: 2023-12-25  
 Polarization: Vertical  
 Test Mode: Transmitting\_802.11n20 High channel  
 Power Source: AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.9700	27.37	peak	-4.31	23.06	40.00	16.94
2	111.4800	29.94	peak	-11.14	18.80	43.50	24.70
3	226.9100	32.44	peak	-12.34	20.10	46.00	25.90
4	288.9900	31.26	peak	-9.58	21.68	46.00	24.32
5	331.6700	31.93	peak	-8.87	23.06	46.00	22.94
6	448.0700	33.73	peak	-5.50	28.23	46.00	17.77

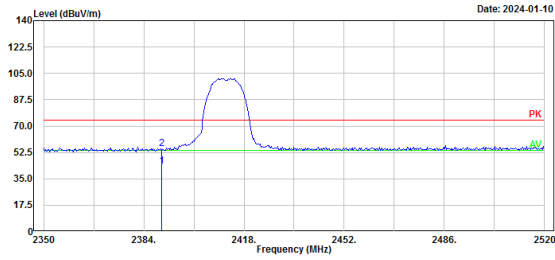
**Worst Test plots**  
**3) 1-18GHz:**

802.11b mode, Low Channel, Horizontal	802.11b mode, Low Channel, Vertical																																																																																																																
<p>Project No.: DG1231214-75506E -RF      Serial No.: 2F7F-1                      Polarization: Horizontal      Tester: Bill Yang                      Test Mode: transmitting                      Note: 802.11b_low channel</p> <p style="text-align: center;"><b>Fundamental test with Band</b>      Date: 2023-12-27</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBuV)</th> <th>Factor (dB/m)</th> <th>Result (dBuV/m)</th> <th>Limit (dBuV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr><td>1</td><td>2282.61</td><td>52.55</td><td>-8.45</td><td>44.10</td><td>54.00</td><td>9.90</td><td>Average</td></tr> <tr><td>2</td><td>2282.61</td><td>62.30</td><td>-8.45</td><td>53.85</td><td>74.00</td><td>20.15</td><td>Peak</td></tr> <tr><td>3</td><td>2536.23</td><td>48.28</td><td>-7.55</td><td>40.73</td><td>54.00</td><td>13.27</td><td>Average</td></tr> <tr><td>4</td><td>2536.23</td><td>60.09</td><td>-7.55</td><td>52.54</td><td>74.00</td><td>21.46</td><td>Peak</td></tr> <tr><td>5</td><td>4826.09</td><td>53.76</td><td>-2.98</td><td>50.78</td><td>54.00</td><td>3.22</td><td>Average</td></tr> <tr><td>6</td><td>4826.09</td><td>56.35</td><td>-2.98</td><td>53.37</td><td>74.00</td><td>20.63</td><td>Peak</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	2282.61	52.55	-8.45	44.10	54.00	9.90	Average	2	2282.61	62.30	-8.45	53.85	74.00	20.15	Peak	3	2536.23	48.28	-7.55	40.73	54.00	13.27	Average	4	2536.23	60.09	-7.55	52.54	74.00	21.46	Peak	5	4826.09	53.76	-2.98	50.78	54.00	3.22	Average	6	4826.09	56.35	-2.98	53.37	74.00	20.63	Peak	<p>Project No.: DG1231214-75506E -RF      Serial No.: 2F7F-1                      Polarization: Vertical      Tester: Bill Yang                      Test Mode: transmitting                      Note: 802.11b_low channel</p> <p style="text-align: center;"><b>Fundamental test with Band</b>      Date: 2023-12-27</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency (MHz)</th> <th>Reading (dBuV)</th> <th>Factor (dB/m)</th> <th>Result (dBuV/m)</th> <th>Limit (dBuV/m)</th> <th>Margin (dB)</th> <th>Detector</th> </tr> </thead> <tbody> <tr><td>1</td><td>1405.80</td><td>49.34</td><td>-10.20</td><td>39.14</td><td>54.00</td><td>14.86</td><td>Average</td></tr> <tr><td>2</td><td>1405.80</td><td>59.04</td><td>-10.20</td><td>48.84</td><td>74.00</td><td>25.16</td><td>Peak</td></tr> <tr><td>3</td><td>2297.10</td><td>46.34</td><td>-8.39</td><td>37.95</td><td>54.00</td><td>16.05</td><td>Average</td></tr> <tr><td>4</td><td>2297.10</td><td>56.07</td><td>-8.39</td><td>47.68</td><td>74.00</td><td>26.32</td><td>Peak</td></tr> <tr><td>5</td><td>4826.09</td><td>52.14</td><td>-2.98</td><td>49.16</td><td>54.00</td><td>4.84</td><td>Average</td></tr> <tr><td>6</td><td>4826.09</td><td>55.31</td><td>-2.98</td><td>52.33</td><td>74.00</td><td>21.67</td><td>Peak</td></tr> </tbody> </table>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	1405.80	49.34	-10.20	39.14	54.00	14.86	Average	2	1405.80	59.04	-10.20	48.84	74.00	25.16	Peak	3	2297.10	46.34	-8.39	37.95	54.00	16.05	Average	4	2297.10	56.07	-8.39	47.68	74.00	26.32	Peak	5	4826.09	52.14	-2.98	49.16	54.00	4.84	Average	6	4826.09	55.31	-2.98	52.33	74.00	21.67	Peak
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802.11b mode, Low Channel, Bandedge, Horizontal

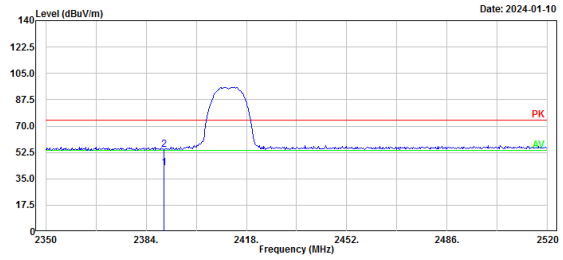
Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11b\_low channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	14.68	28.57	43.25	54.00	10.75	Average
2	2390.00	26.26	28.57	54.83	74.00	19.17	Peak

802.11b mode, Low Channel, Bandedge, Vertical

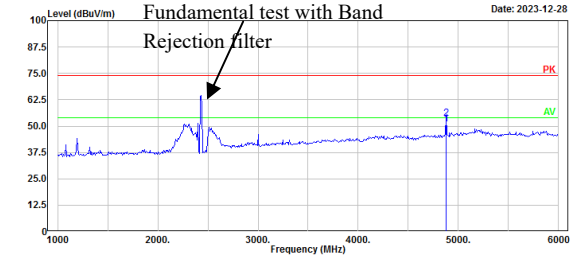
Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11b\_low channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	13.84	28.57	42.41	54.00	11.59	Average
2	2390.00	26.01	28.57	54.58	74.00	19.42	Peak

802.11b mode, Middle Channel, Horizontal

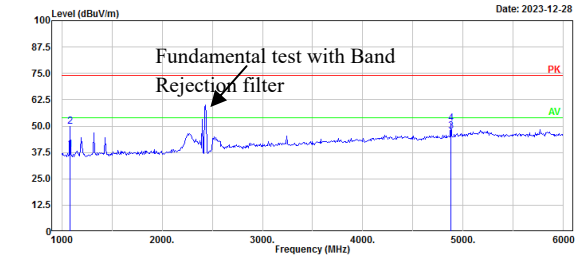
Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11b\_middle channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4876.81	53.66	-2.75	50.91	54.00	3.09	Average
2	4876.81	56.44	-2.75	53.69	74.00	20.31	Peak

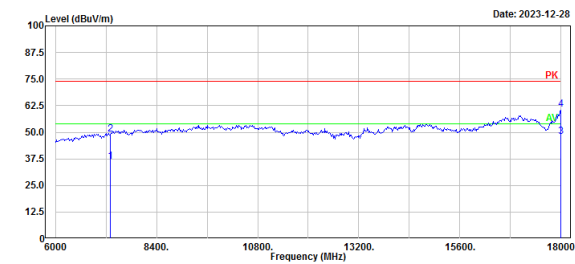
802.11b mode, Middle Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11b\_middle channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



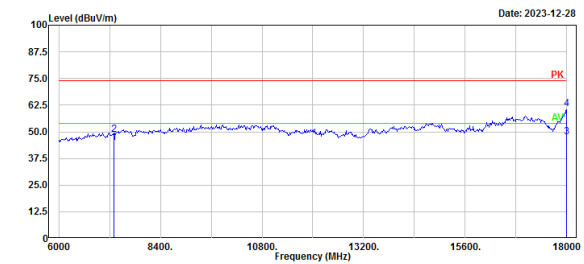
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1079.71	49.65	-10.78	38.87	54.00	15.13	Average
2	1079.71	60.47	-10.78	49.69	74.00	24.31	Peak
3	4876.81	50.31	-2.75	47.56	54.00	6.44	Average
4	4876.81	54.21	-2.75	51.46	74.00	22.54	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11b\_middle channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7304.35	34.21	2.07	36.28	54.00	17.72	Average
2	7304.35	46.94	2.07	49.01	74.00	24.99	Peak
3	18000.00	29.77	18.15	47.92	54.00	6.08	Average
4	18000.00	42.72	18.15	60.87	74.00	13.13	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11b\_middle channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang

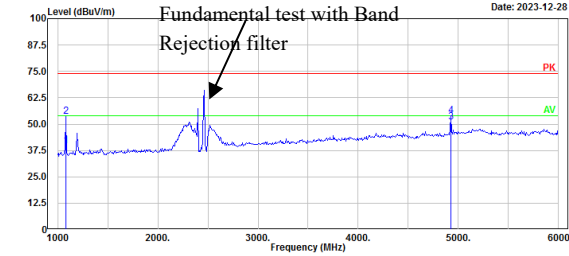


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7304.35	42.67	2.07	44.74	54.00	9.26	Average
2	7304.35	46.45	2.07	48.52	74.00	25.48	Peak
3	18000.00	29.27	18.15	47.42	54.00	6.58	Average
4	18000.00	42.58	18.15	60.73	74.00	13.27	Peak

802.11b mode, High Channel, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11b\_high channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

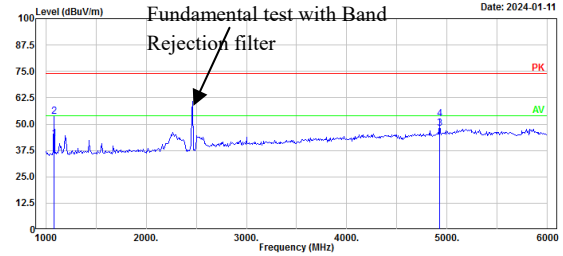


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1079.71	50.25	-10.78	39.47	54.00	14.53	Average
2	1079.71	64.49	-10.78	53.71	74.00	20.29	Peak
3	4927.54	53.50	-2.52	50.98	54.00	3.02	Average
4	4927.54	56.59	-2.52	54.07	74.00	19.93	Peak

802.11b mode, High Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11b\_high channel

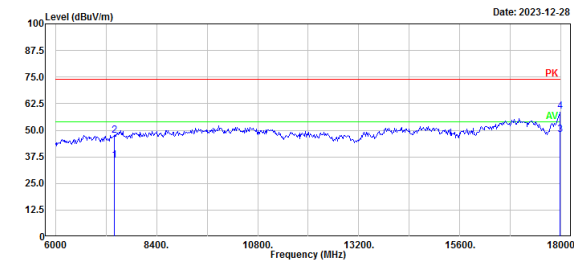
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1079.71	53.63	-10.78	42.85	54.00	11.15	Average
2	1079.71	64.31	-10.78	53.53	74.00	20.47	Peak
3	4927.54	50.27	-2.52	47.75	54.00	6.25	Average
4	4927.54	55.13	-2.52	52.61	74.00	21.39	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11b\_high channel

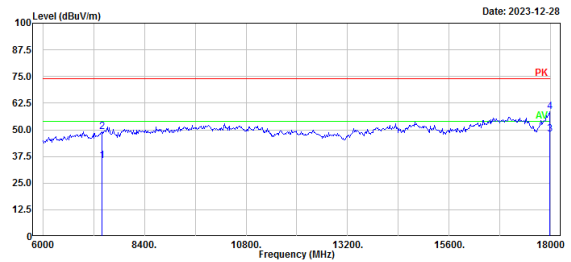
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7391.30	33.45	2.27	35.72	54.00	18.28	Average
2	7391.30	45.31	2.27	47.58	74.00	26.42	Peak
3	17982.61	29.76	18.08	47.84	54.00	6.16	Average
4	17982.61	40.60	18.08	58.68	74.00	15.32	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11b\_high channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

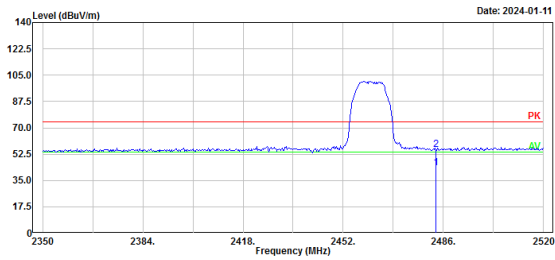


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7391.30	33.07	2.27	35.34	54.00	18.66	Average
2	7391.30	46.61	2.27	48.88	74.00	25.12	Peak
3	17982.61	29.71	18.08	47.79	54.00	6.21	Average
4	17982.61	40.51	18.08	58.59	74.00	15.41	Peak

802.11b mode, High Channel, Bandedge, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11b\_high channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

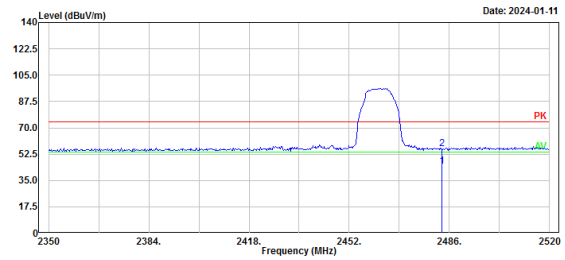


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50	14.59	28.95	43.54	54.00	10.46	Average
2	2483.50	26.76	28.95	55.71	74.00	18.29	Peak

802.11b mode, High Channel, Bandedge, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11b\_high channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

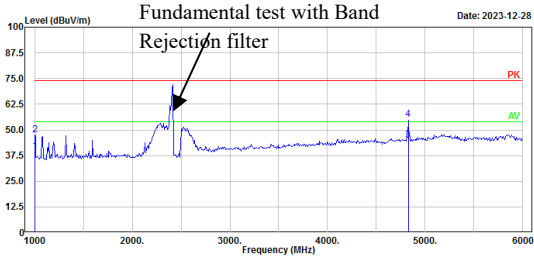


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50	15.25	28.95	44.20	54.00	9.80	Average
2	2483.50	27.05	28.95	56.00	74.00	18.00	Peak

802.11g mode, Low Channel, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11g\_low channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

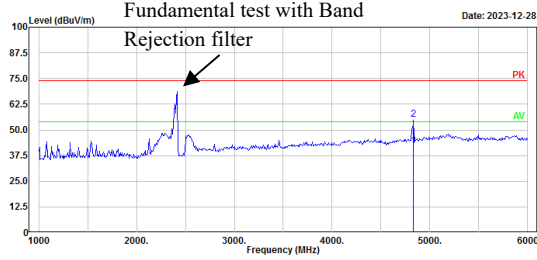


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1000.00	50.62	-11.05	39.57	54.00	14.43	Average
2	1000.00	58.71	-11.05	47.66	74.00	26.34	Peak
3	4826.09	47.96	-2.98	44.98	54.00	9.02	Average
4	4826.09	57.98	-2.98	55.00	74.00	19.00	Peak

802.11g mode, Low Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11g\_low channel

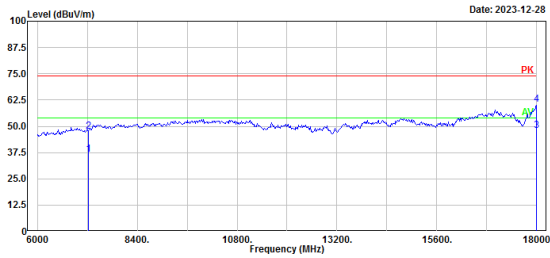
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4833.33	45.06	-2.95	42.11	54.00	11.89	Average
2	4833.33	58.06	-2.95	55.11	74.00	18.89	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11g\_low channel

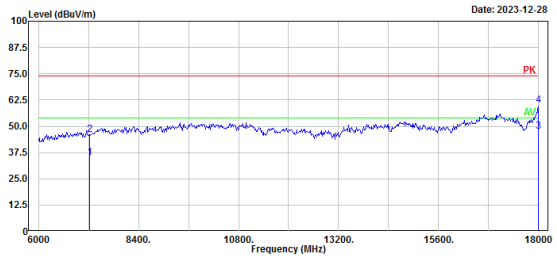
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7234.78	34.71	1.78	36.49	54.00	17.51	Average
2	7234.78	45.91	1.78	47.69	74.00	26.31	Peak
3	18000.00	29.68	18.15	47.83	54.00	6.17	Average
4	18000.00	42.09	18.15	60.24	74.00	13.76	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11g\_low channel

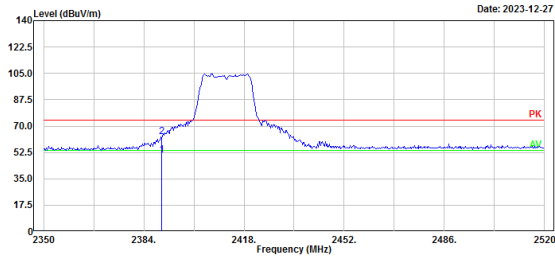
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7234.78	33.14	1.78	34.92	54.00	19.08	Average
2	7234.78	44.27	1.78	46.05	74.00	27.95	Peak
3	18000.00	29.48	18.15	47.63	54.00	6.37	Average
4	18000.00	41.67	18.15	59.82	74.00	14.18	Peak

802.11g mode, Low Channel, Bandedge, Horizontal

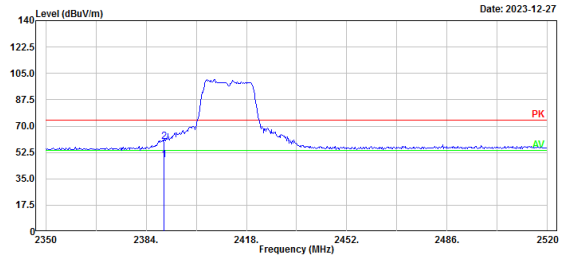
Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11g\_low channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	22.14	28.57	50.71	54.00	3.29	Average
2	2390.00	34.31	28.57	62.88	74.00	11.12	Peak

802.11g mode, Low Channel, Bandedge, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11g\_low channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang

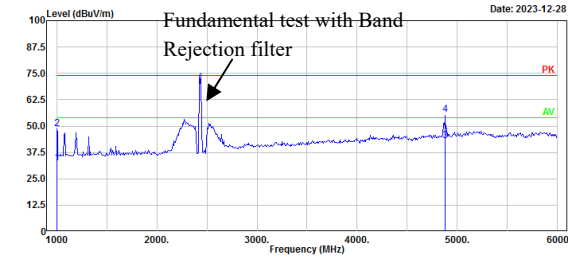


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	18.72	28.57	47.29	54.00	6.71	Average
2	2390.00	30.89	28.57	59.46	74.00	14.54	Peak

802.11g mode, Middle Channel, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11g\_middle channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

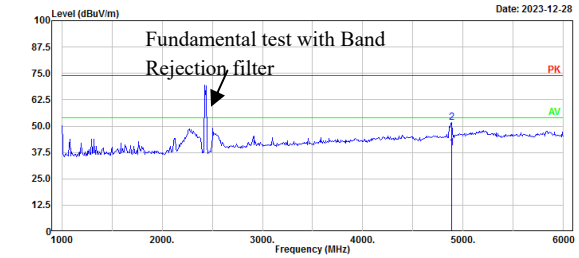


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1000.00	43.34	-11.05	32.29	54.00	21.71	Average
2	1000.00	59.79	-11.05	48.74	74.00	25.26	Peak
3	4876.81	45.61	-2.75	42.86	54.00	11.14	Average
4	4876.81	58.13	-2.75	55.38	74.00	18.62	Peak

802.11g mode, Middle Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11g\_middle channel

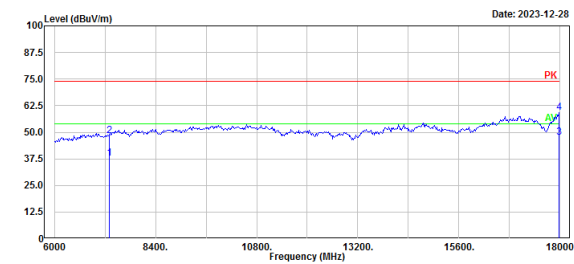
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4884.06	42.36	-2.71	39.65	54.00	14.35	Average
2	4884.06	54.35	-2.71	51.64	74.00	22.36	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11g\_middle channel

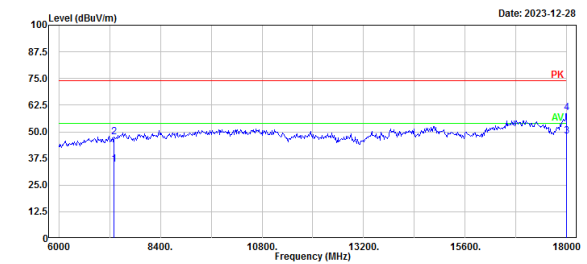
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7304.35	35.52	2.07	37.59	54.00	16.41	Average
2	7304.35	46.36	2.07	48.43	74.00	25.57	Peak
3	17982.61	29.49	18.08	47.57	54.00	6.43	Average
4	17982.61	41.33	18.08	59.41	74.00	14.59	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11g\_middle channel

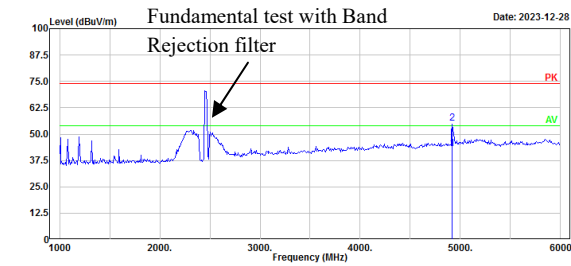
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7304.35	32.46	2.07	34.53	54.00	19.47	Average
2	7304.35	45.54	2.07	47.61	74.00	26.39	Peak
3	18000.00	29.62	18.15	47.77	54.00	6.23	Average
4	18000.00	40.69	18.15	58.84	74.00	15.16	Peak

802.11g mode, High Channel, Horizontal

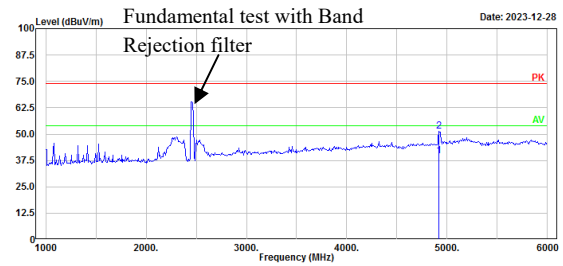
Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11g\_high channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4920.29	45.41	-2.54	42.87	54.00	11.13	Average
2	4920.29	57.65	-2.54	55.11	74.00	18.89	Peak

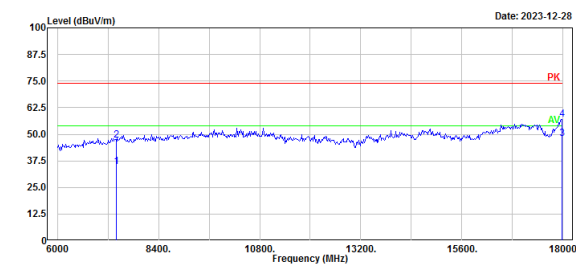
802.11g mode, High Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11g\_high channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



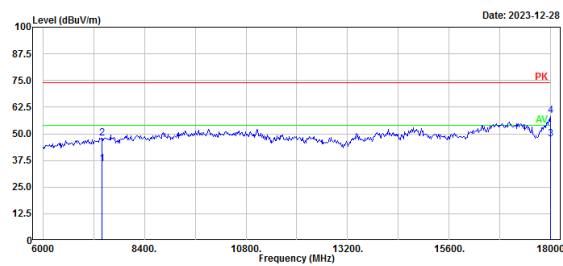
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4920.29	42.09	-2.54	39.55	54.00	14.45	Average
2	4920.29	53.71	-2.54	51.17	74.00	22.83	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11g\_high channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



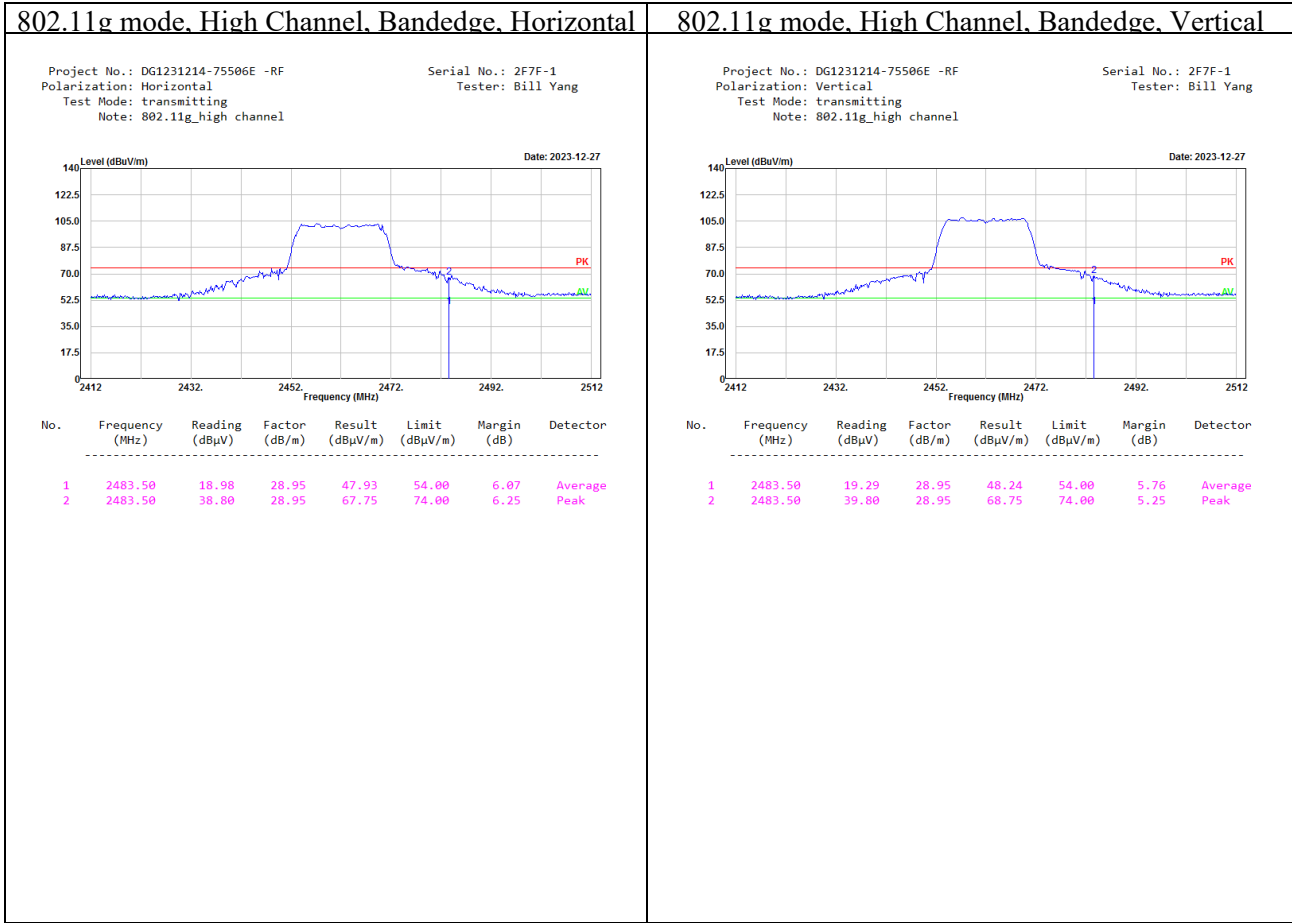
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7391.30	32.47	2.27	34.74	54.00	19.26	Average
2	7391.30	44.72	2.27	46.99	74.00	27.01	Peak
3	17965.22	29.92	18.01	47.93	54.00	6.07	Average
4	17965.22	39.12	18.01	57.13	74.00	16.87	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11g\_high channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7391.30	33.42	2.27	35.69	54.00	18.31	Average
2	7391.30	45.84	2.27	48.11	74.00	25.89	Peak
3	18000.00	29.28	18.15	47.43	54.00	6.57	Average
4	18000.00	40.33	18.15	58.48	74.00	15.52	Peak

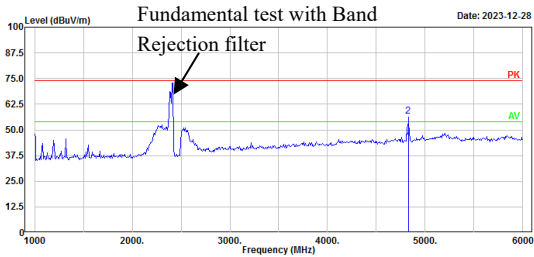




802.11n ht20 mode, Low Channel, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n20\_low channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

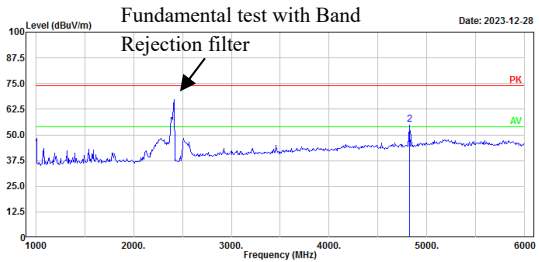


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4826.09	47.26	-2.98	44.28	74.00	29.72	Peak
2	4826.09	59.41	-2.98	56.43	74.00	17.57	Peak

802.11n ht20 mode, Low Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n20\_low channel

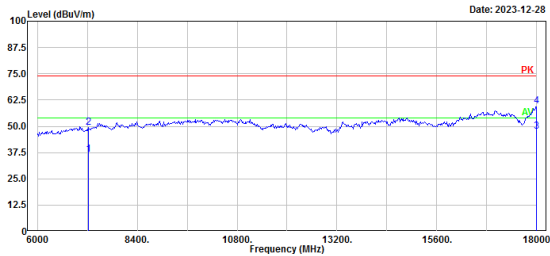
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4818.84	45.90	-3.00	42.90	54.00	11.10	Average
2	4818.84	58.04	-3.00	55.04	74.00	18.96	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n20\_low channel

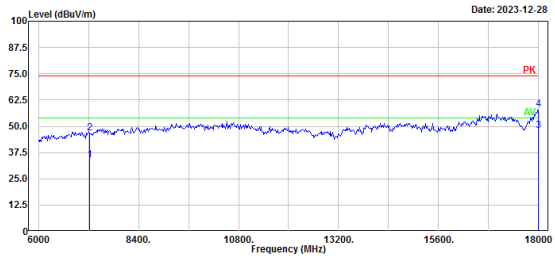
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7234.78	34.74	1.78	36.52	54.00	17.48	Average
2	7234.78	47.66	1.78	49.44	74.00	24.56	Peak
3	18000.00	29.41	18.15	47.56	54.00	6.44	Average
4	18000.00	41.52	18.15	59.67	74.00	14.33	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n20\_low channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

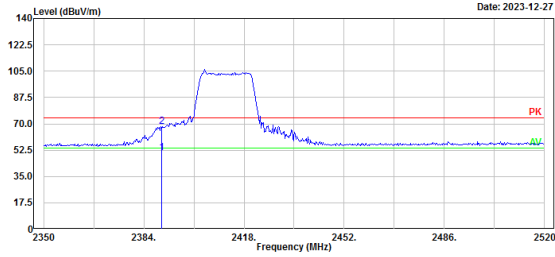


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7234.78	32.10	1.78	33.88	54.00	20.12	Average
2	7234.78	44.87	1.78	46.65	74.00	27.35	Peak
3	18000.00	29.71	18.15	47.86	54.00	6.14	Average
4	18000.00	39.80	18.15	57.95	74.00	16.05	Peak

802.11n ht20 mode, Low Channel, Bandedge, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n20\_low channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

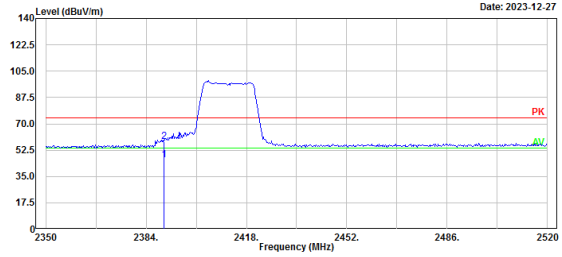


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	22.15	28.57	50.72	54.00	3.28	Average
2	2390.00	39.78	28.57	68.35	74.00	5.65	Peak

802.11n ht20 mode, Low Channel, Bandedge, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n20\_low channel

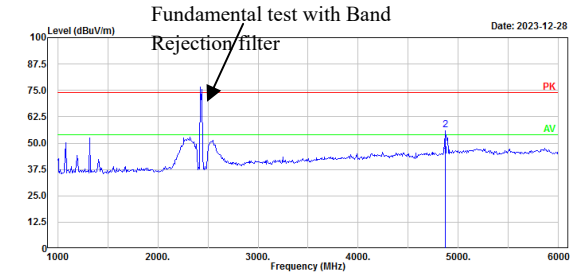
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	17.65	28.57	46.22	54.00	-7.78	Average
2	2390.00	29.52	28.57	58.09	74.00	15.91	Peak

802.11n ht20 mode, Middle Channel, Horizontal

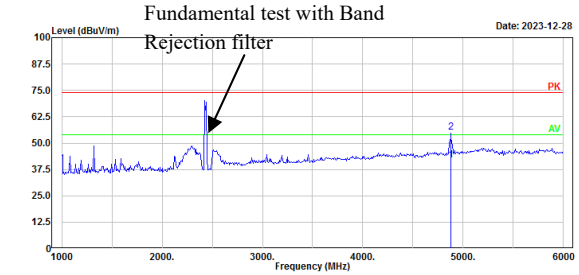
Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n20\_middle channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4869.57	46.58	-2.78	43.80	54.00	10.20	Average
2	4869.57	59.02	-2.78	56.24	74.00	17.76	Peak

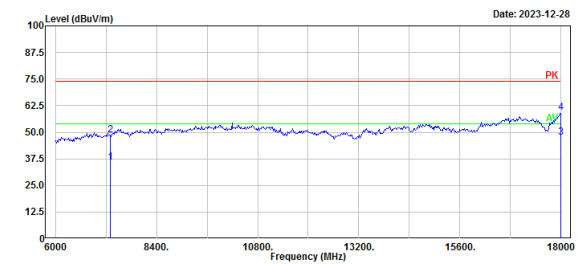
802.11n ht20 mode, Middle Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n20\_middle channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



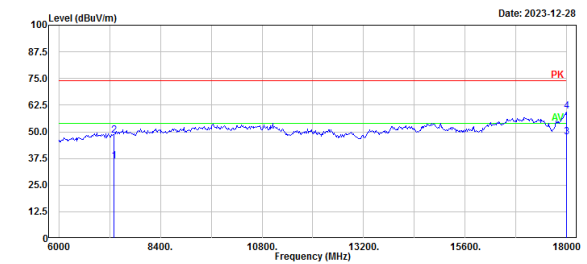
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4876.81	44.67	-2.75	41.92	54.00	12.08	Average
2	4876.81	57.75	-2.75	55.00	74.00	19.00	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n20\_middle channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7304.35	33.75	2.07	35.82	54.00	18.18	Average
2	7304.35	46.76	2.07	48.83	74.00	25.17	Peak
3	18000.00	29.46	18.15	47.61	54.00	6.39	Average
4	18000.00	41.27	18.15	59.42	74.00	14.58	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n20\_middle channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang

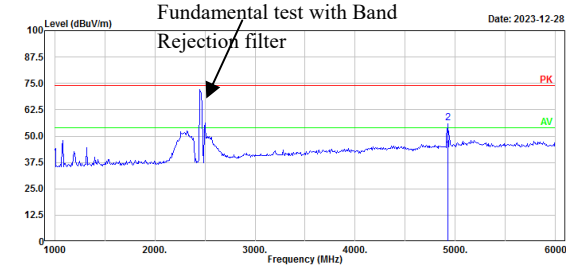


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7304.35	34.16	2.07	36.23	54.00	17.77	Average
2	7304.35	46.19	2.07	48.26	74.00	25.74	Peak
3	18000.00	29.55	18.15	47.70	54.00	6.30	Average
4	18000.00	41.46	18.15	59.61	74.00	14.39	Peak

802.11n ht20 mode, High Channel, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n20\_high channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

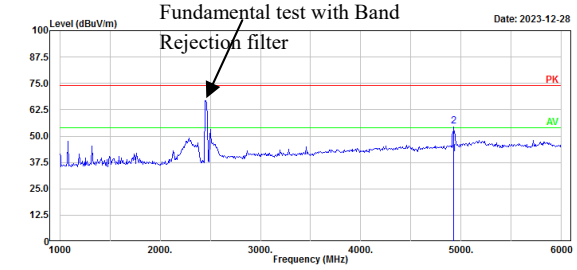


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4927.54	45.90	-2.52	43.38	54.00	10.62	Average
2	4927.54	58.83	-2.52	56.31	74.00	17.69	Peak

802.11n ht20 mode, High Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n20\_high channel

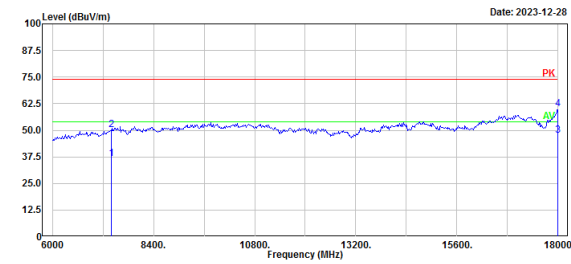
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4927.54	44.17	-2.52	41.65	54.00	12.35	Average
2	4927.54	57.13	-2.52	54.61	74.00	19.39	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n20\_high channel

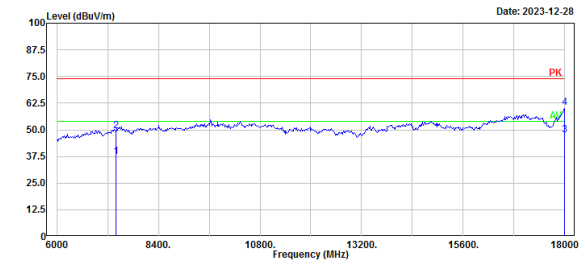
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7391.30	34.17	2.27	36.44	54.00	17.56	Average
2	7391.30	47.76	2.27	50.03	74.00	23.97	Peak
3	18000.00	29.54	18.15	47.69	54.00	6.31	Average
4	18000.00	41.86	18.15	60.01	74.00	13.99	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n20\_high channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

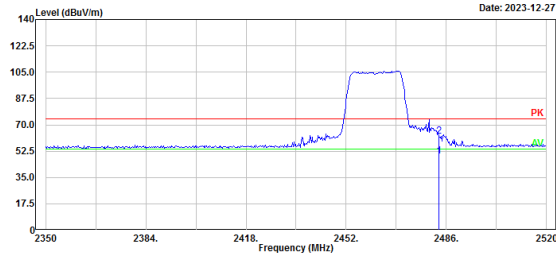


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7391.30	35.17	2.27	37.44	54.00	16.56	Average
2	7391.30	47.13	2.27	49.40	74.00	24.60	Peak
3	18000.00	29.47	18.15	47.62	54.00	6.38	Average
4	18000.00	42.27	18.15	60.42	74.00	13.58	Peak

802.11n ht20 mode, High Channel, Bandedge, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n20\_high channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

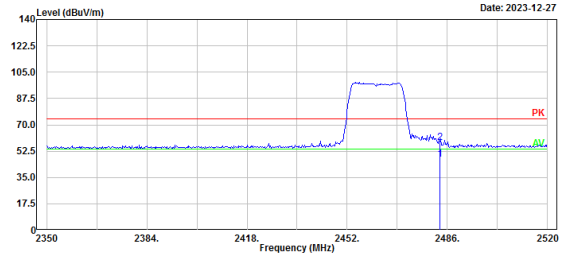


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50	20.28	28.95	49.23	54.00	4.77	Average
2	2483.50	33.40	28.95	62.35	74.00	11.65	Peak

802.11n ht20 mode, High Channel, Bandedge, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n20\_high channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

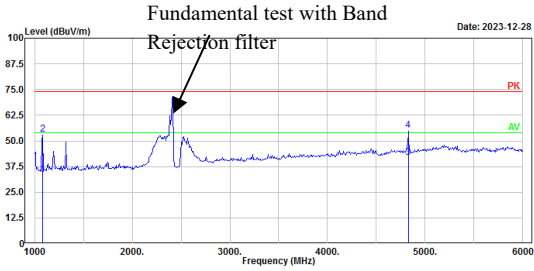


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50	17.99	28.95	46.94	54.00	7.06	Average
2	2483.50	29.07	28.95	58.02	74.00	15.98	Peak

802.11n ht40 mode,Low Channel, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n40\_low channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

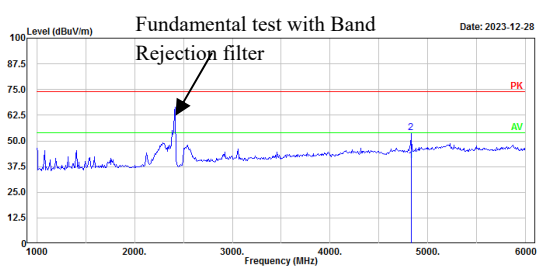


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1079.71	44.22	-10.78	33.44	54.00	20.56	Average
2	1079.71	63.80	-10.78	53.02	74.00	20.98	Peak
3	4826.09	44.72	-2.98	41.74	54.00	12.26	Average
4	4826.09	58.17	-2.98	55.19	74.00	18.81	Peak

802.11n ht40 mode, Low Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n40\_low channel

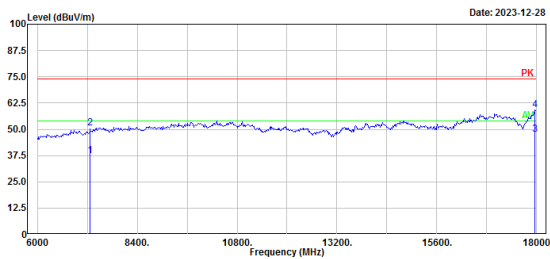
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4826.09	43.31	-2.98	40.33	74.00	33.67	Peak
2	4826.09	56.87	-2.98	53.89	74.00	20.11	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n40\_low channel

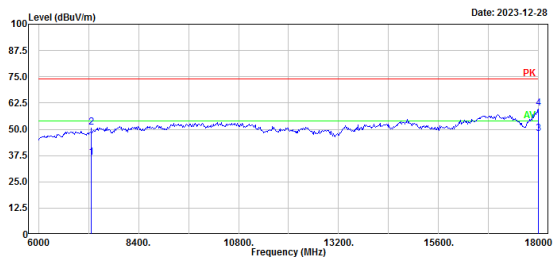
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7269.57	35.32	1.95	37.27	54.00	16.73	Average
2	7269.57	48.55	1.95	50.50	74.00	23.50	Peak
3	17947.83	29.44	17.96	47.40	54.00	6.60	Average
4	17947.83	41.42	17.96	59.38	74.00	14.62	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n40\_low channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

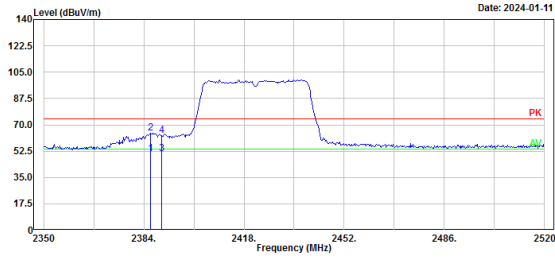


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7269.57	34.81	1.95	36.76	54.00	17.24	Average
2	7269.57	48.97	1.95	50.92	74.00	23.08	Peak
3	18000.00	29.74	18.15	47.89	54.00	6.11	Average
4	18000.00	41.69	18.15	59.84	74.00	14.16	Peak

802.11n ht40 mode, Low Channel, Bandedge, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n40\_low channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

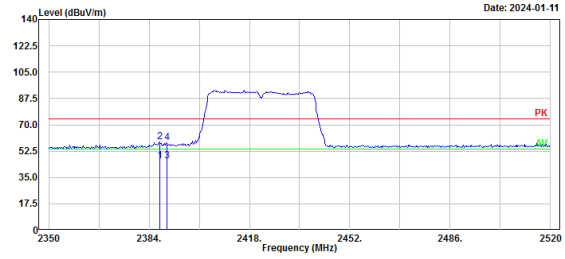


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2386.22	22.32	28.55	50.87	54.00	3.13	Average
2	2386.22	35.74	28.55	64.29	74.00	9.71	Peak
3	2390.00	22.15	28.57	50.72	54.00	3.28	Average
4	2390.00	34.34	28.57	62.91	74.00	11.09	Peak

802.11n ht40 mode, Low Channel, Bandedge, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n40\_low channel

Serial No.: 2F7F-1  
 Tester: Bill Yang



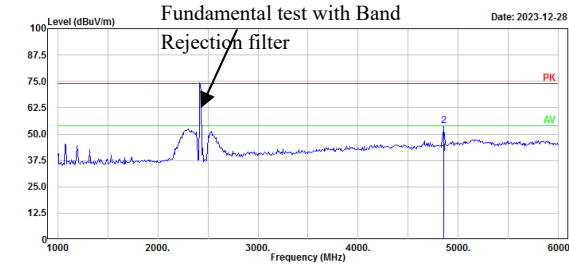
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2387.70	17.65	28.56	46.21	54.00	7.79	Average
2	2387.70	30.02	28.56	58.58	74.00	15.42	Peak
3	2390.00	17.28	28.57	45.85	54.00	8.15	Average
4	2390.00	29.69	28.57	58.26	74.00	15.74	Peak



802.11n ht40 mode, Middle Channel, Horizontal

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n40\_middle channel

Serial No.: 2F7F-1  
 Tester: Bill Yang

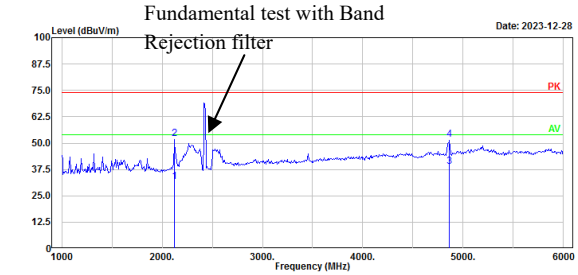


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4855.07	43.75	-2.86	40.89	54.00	13.11	Average
2	4855.07	56.80	-2.86	53.94	74.00	20.06	Peak

802.11n ht40 mode, Middle Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n40\_middle channel

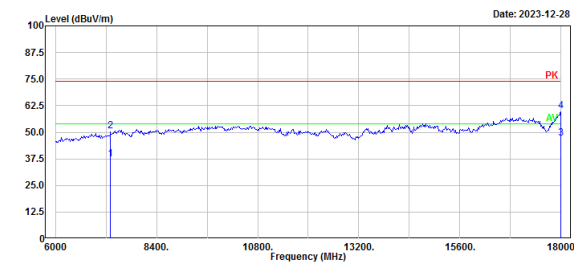
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2123.19	40.36	-8.74	31.62	54.00	22.38	Average
2	2123.19	60.99	-8.74	52.25	74.00	21.75	Peak
3	4862.32	41.67	-2.82	38.85	54.00	15.15	Average
4	4862.32	54.61	-2.82	51.79	74.00	22.21	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n40\_middle channel

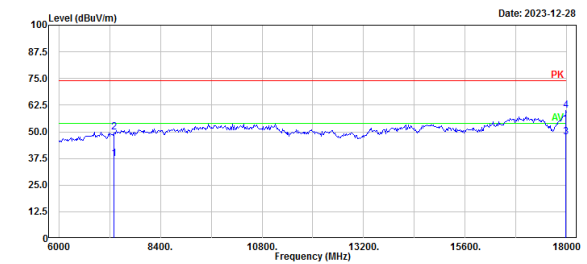
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7304.35	35.47	2.07	37.54	54.00	16.46	Average
2	7304.35	48.47	2.07	50.54	74.00	23.46	Peak
3	18000.00	29.17	18.15	47.32	54.00	6.68	Average
4	18000.00	41.80	18.15	59.95	74.00	14.05	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n40\_middle channel

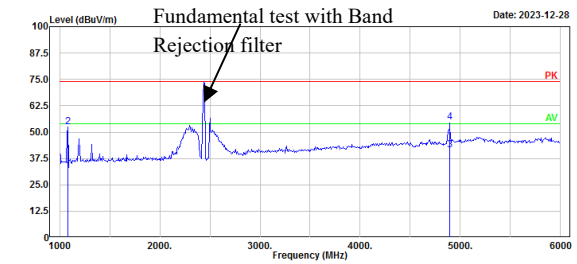
Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7304.35	35.17	2.07	37.24	54.00	16.76	Average
2	7304.35	47.85	2.07	49.92	74.00	24.08	Peak
3	17982.61	29.35	18.08	47.43	54.00	6.57	Average
4	17982.61	41.84	18.08	59.92	74.00	14.08	Peak

802.11n ht40 mode, High Channel, Horizontal

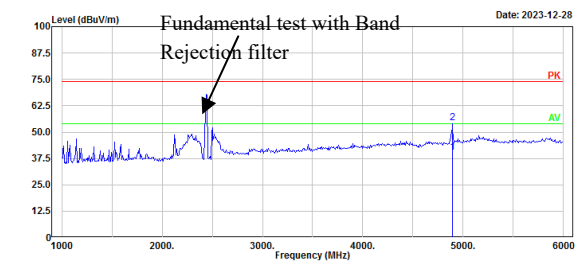
Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n40\_high channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1079.71	42.45	-10.78	31.67	54.00	22.33	Average
2	1079.71	63.05	-10.78	52.27	74.00	21.73	Peak
3	4891.30	44.34	-2.68	41.66	54.00	12.34	Average
4	4891.30	57.22	-2.68	54.54	74.00	19.46	Peak

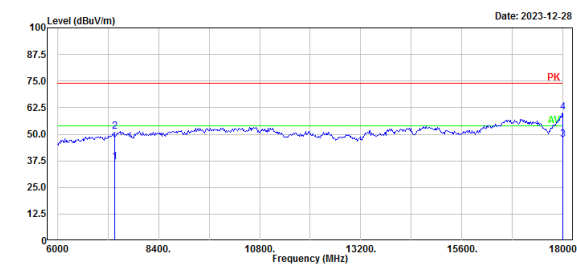
802.11n ht40 mode, High Channel, Vertical

Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n40\_high channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



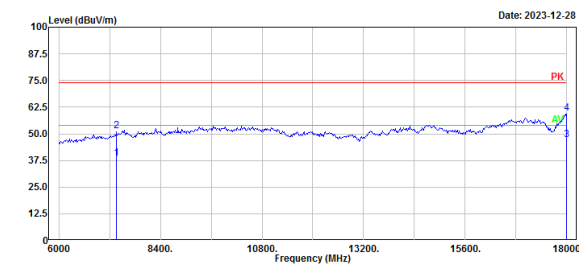
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4891.30	43.19	-2.68	40.51	54.00	13.49	Average
2	4891.30	56.88	-2.68	54.20	74.00	19.80	Peak

Project No.: DG1231214-75506E -RF  
 Polarization: Horizontal  
 Test Mode: transmitting  
 Note: 802.11n40\_high channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7356.52	34.87	2.17	37.04	54.00	16.96	Average
2	7356.52	49.31	2.17	51.48	74.00	22.52	Peak
3	18000.00	29.41	18.15	47.56	54.00	6.44	Average
4	18000.00	42.33	18.15	60.48	74.00	13.52	Peak

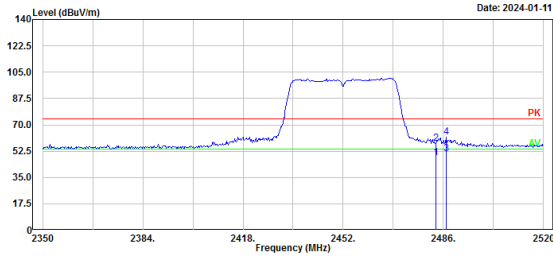
Project No.: DG1231214-75506E -RF  
 Polarization: Vertical  
 Test Mode: transmitting  
 Note: 802.11n40\_high channel  
 Serial No.: 2F7F-1  
 Tester: Bill Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7356.52	36.19	2.17	38.36	54.00	15.64	Average
2	7356.52	49.13	2.17	51.30	74.00	22.70	Peak
3	18000.00	29.11	18.15	47.26	54.00	6.74	Average
4	18000.00	41.56	18.15	59.71	74.00	14.29	Peak

802.11n ht40 mode, High Channel, Bandedge, Horizontal

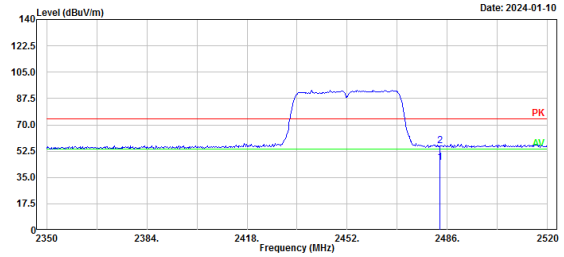
Project No.: DG1231214-75506E -RF      Serial No.: 2F7F-1  
 Polarization: Horizontal      Tester: Bill Yang  
 Test Mode: transmitting  
 Note: 802.11n40\_high channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50	19.16	28.95	48.11	54.00	5.89	Average
2	2483.50	28.80	28.95	57.75	74.00	16.25	Peak
3	2486.99	22.00	28.97	50.97	54.00	3.03	Average
4	2486.99	32.62	28.97	61.59	74.00	12.41	Peak

802.11n ht40 mode, High Channel, Bandedge, Vertical

Project No.: DG1231214-75506E -RF      Serial No.: 2F7F-1  
 Polarization: Vertical      Tester: Bill Yang  
 Test Mode: transmitting  
 Note: 802.11n40\_high channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50	15.87	28.95	44.82	54.00	9.18	Average
2	2483.50	27.04	28.95	55.99	74.00	18.01	Peak

**18-25GHz:**

No Emission was detected in the range 18-25GHz, test was performed on the mode and channel which with the maximum power.

Horizontal								Vertical							
Project No.: DG1231214-75506E -RF Polarization: Horizontal Test Mode: transmitting Note: 802.11n20_middle channel				Serial No.: 2F7F-1 Tester: Bill Yang				Project No.: DG1231214-75506E -RF Polarization: Vertical Test Mode: transmitting Note: 802.11n20_middle channel				Serial No.: 2F7F-1 Tester: Bill Yang			
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	23772.46	31.36	9.57	40.93	54.00	13.07	Average	1	23539.13	32.39	8.41	40.80	54.00	13.20	Average
2	23772.46	43.44	9.57	53.01	74.00	20.99	Peak	2	23539.13	44.78	8.41	53.19	74.00	20.81	Peak

**5.3 Minimum 6 dB Emission Bandwidth**

<b>Serial No.:</b>	2F7F-3	<b>Test Date:</b>	2024-01-08
<b>Test Site:</b>	RF	<b>Test Mode:</b>	Transmitting
<b>Tester:</b>	Jojo Zhou	<b>Test Result:</b>	Pass

**Environmental Conditions:**

<b>Temperature:</b> (°C)	25.4	<b>Relative Humidity:</b> (%)	41	<b>ATM Pressure:</b> (kPa)	101.4
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**Test Equipment List and Details:**

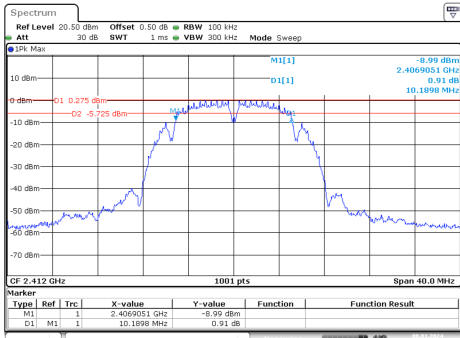
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023-10-18	2024-10-17
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	2023-09-01	2024-08-31

*\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Data:**

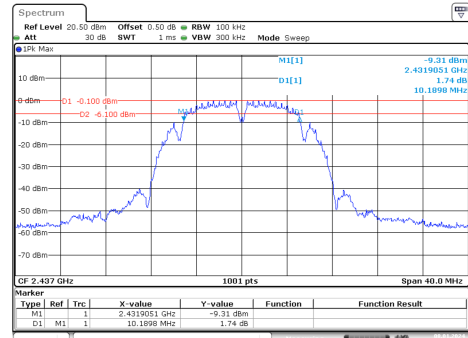
Mode	Value (MHz)	Limit (MHz)	Result
b_2412MHz_Chain 0	10.190	0.5	Pass
b_2437MHz_Chain 0	10.190	0.5	Pass
b_2462MHz_Chain 0	10.190	0.5	Pass
g_2412MHz_Chain 0	16.424	0.5	Pass
g_2437MHz_Chain 0	16.424	0.5	Pass
g_2462MHz_Chain 0	16.464	0.5	Pass
n20_2412MHz_Chain 0	17.183	0.5	Pass
n20_2437MHz_Chain 0	17.143	0.5	Pass
n20_2462MHz_Chain 0	17.143	0.5	Pass
n40_2422MHz_Chain 0	35.325	0.5	Pass
n40_2437MHz_Chain 0	35.325	0.5	Pass
n40_2452MHz_Chain 0	35.325	0.5	Pass

b\_2412MHz



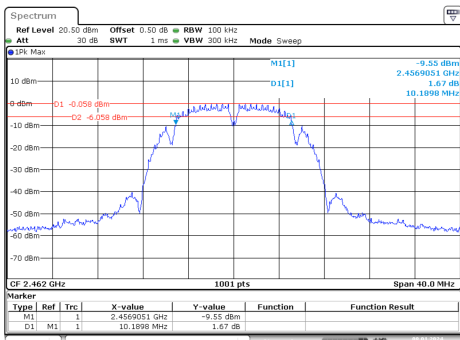
ProjectNo.:DG1231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 17:55:14Z

b\_2437MHz



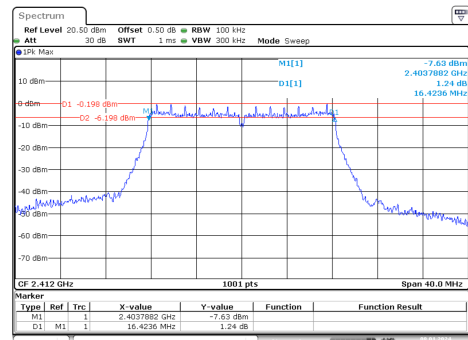
ProjectNo.:DG1231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 19:29:39

b\_2462MHz



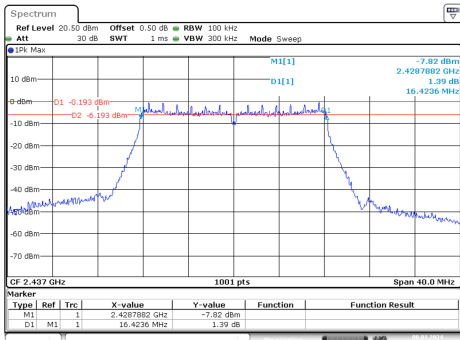
ProjectNo.:DG1231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 17:59:19

g\_2412MHz



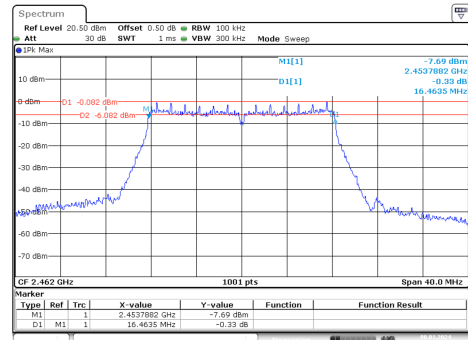
ProjectNo.:DG1231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 18:04:03

g\_2437MHz



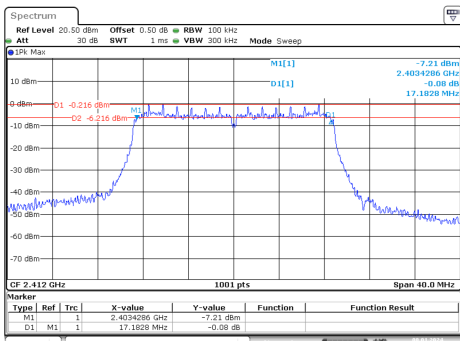
ProjectNo.:DG1231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 18:06:24

g\_2462MHz



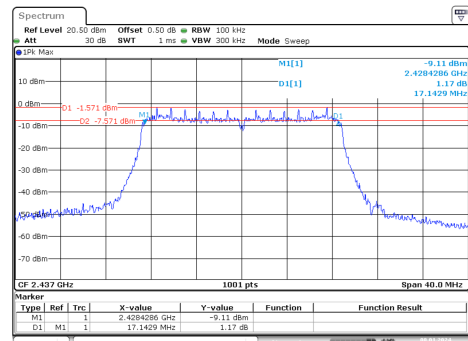
ProjectNo.:DG1231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 18:09:42

n20\_2412MHz



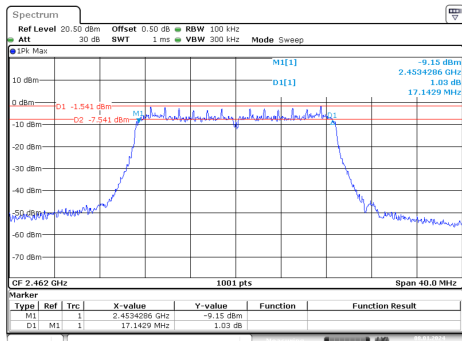
ProjectNo.:DG1231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 18:24:54

n20\_2437MHz

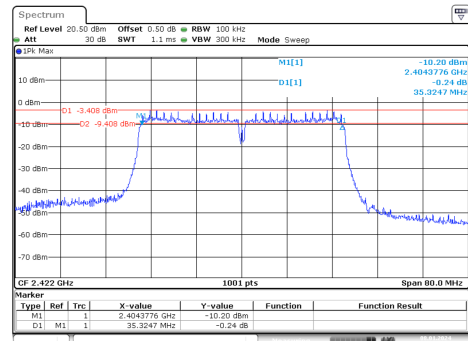


ProjectNo.:DG1231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 18:27:20

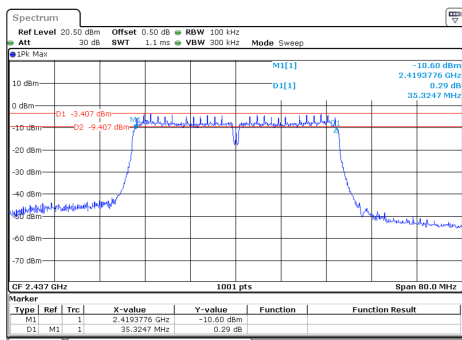
n20\_2462MHz



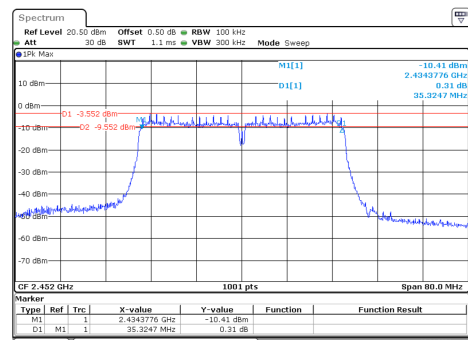
n40\_2422MHz



n40\_2437MHz



n40\_2452MHz



**5.4 99% Occupied Bandwidth**

<b>Serial No.:</b>	2F7F-3	<b>Test Date:</b>	2024-01-08
<b>Test Site:</b>	RF	<b>Test Mode:</b>	Transmitting
<b>Tester:</b>	Jojo Zhou	<b>Test Result:</b>	Pass

**Environmental Conditions:**

<b>Temperature:</b> (°C)	25.4	<b>Relative Humidity:</b> (%)	41	<b>ATM Pressure:</b> (kPa)	101.4
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023-10-18	2024-10-17
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	2023-09-01	2024-08-31

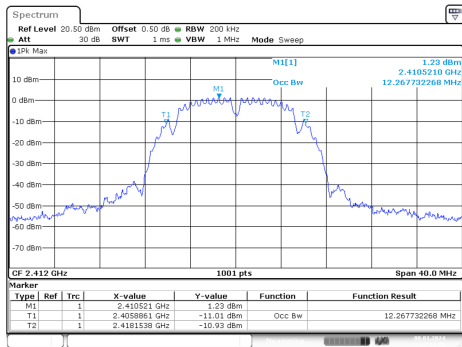
\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data:**

Mode	99% OBW (MHz)
b_2412MHz_Chain 0	12.268
b_2437MHz_Chain 0	12.268
b_2462MHz_Chain 0	12.268
g_2412MHz_Chain 0	16.543
g_2437MHz_Chain 0	16.583
g_2462MHz_Chain 0	16.623
n20_2412MHz_Chain 0	17.542
n20_2437MHz_Chain 0	17.502
n20_2462MHz_Chain 0	17.542
n40_2422MHz_Chain 0	36.044
n40_2437MHz_Chain 0	36.044
n40_2452MHz_Chain 0	36.044

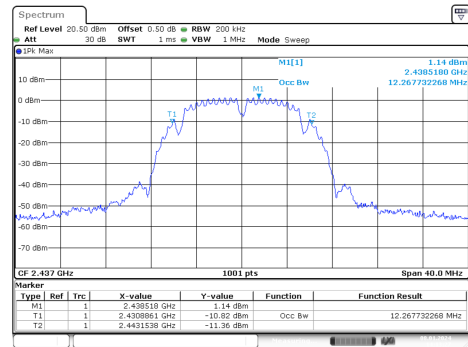


b\_2412MHz



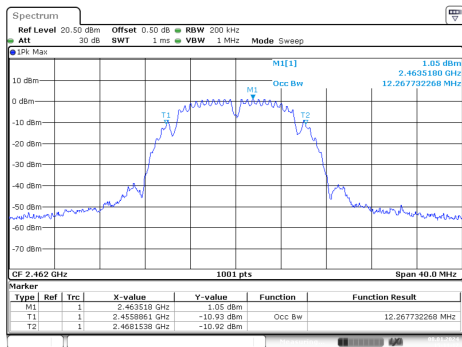
ProjectNo.:D01231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 14:12:16

b\_2437MHz



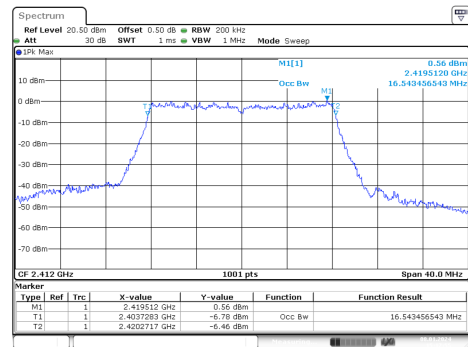
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Date: 8-JUN-2024 14:13:29

b\_2462MHz



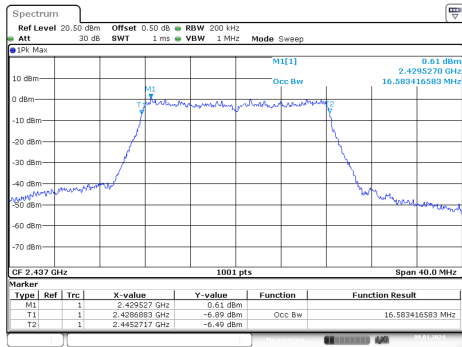
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Date: 8-JUN-2024 15:11:17

g\_2412MHz



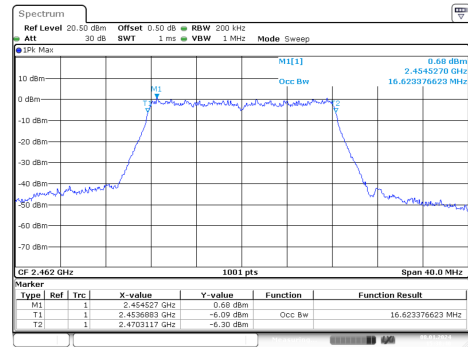
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Date: 8-JUN-2024 15:17:55

g\_2437MHz



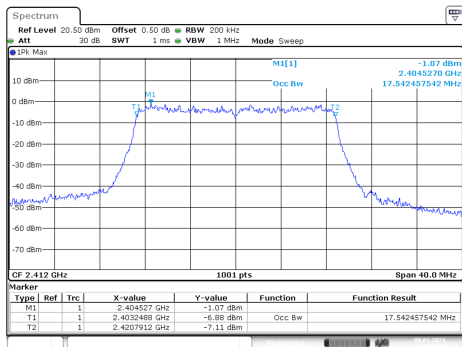
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Date: 8-JUN-2024 15:20:55

g\_2462MHz



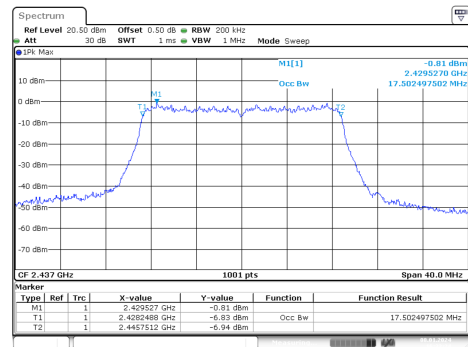
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Date: 8-JUN-2024 15:28:41

n20\_2412MHz



ProjectNo.:D01231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 16:20:40

n20\_2437MHz



ProjectNo.:D01231214-75506E-RF Tester:Jojo Zhou  
Date: 8-JUN-2024 16:33:24