



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: SHENZHEN TENDA TECHNOLOGY CO.,LTD.

Address: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

FCC ID: V7TRX12P2

IC: 9034A-RX12P

HVIN: RX12 Pro

Product Name: AX3000 Dual Band Gigabit Wi-Fi 6 Router

Standard(s): 47 CFR Part 15, Subpart C(15.247)

RSS-247 Issue 3, August 2023

RSS-Gen, Issue 5, February 2021 Amendment 2

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR230957522-00B

Date Of Issue: 2023/11/28

Reviewed By: Julie Tan

Title: RF Engineer

Julie Tan

Approved By: Sun Zhong

Title: Manager

Sun Zhong

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China

Tel: +86-769-82016888

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang 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. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

CONTENTS

DOCUMENT REVISION HISTORY	5
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2 DESCRIPTION OF TEST CONFIGURATION.....	8
1.2.1 EUT Operation Condition:.....	8
1.2.2 Support Equipment List and Details	8
1.2.3 Support Cable List and Details	8
1.2.4 Block Diagram of Test Setup.....	9
1.3 MEASUREMENT UNCERTAINTY	10
2. SUMMARY OF TEST RESULTS	11
3. REQUIREMENTS AND TEST PROCEDURES	12
3.1 AC LINE CONDUCTED EMISSIONS.....	12
3.1.1 Applicable Standard.....	12
3.1.2 EUT Setup.....	14
3.1.3 EMI Test Receiver Setup	14
3.1.4 Test Procedure	15
3.1.5 Corrected Amplitude & Margin Calculation.....	15
3.2 RADIATED SPURIOUS EMISSIONS.....	16
3.2.1 Applicable Standard.....	16
3.2.2 EUT Setup.....	16
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	17
3.2.4 Test Procedure	17
3.2.5 Corrected Amplitude & Margin Calculation.....	18
3.3 MINIMUM 6 DB BANDWIDTH:	19
3.3.1 Applicable Standard.....	19
3.3.2 EUT Setup.....	19
3.3.3 Test Procedure	19
3.4 99% OCCUPIED BANDWIDTH:	20
3.4.1 Applicable Standard.....	20
3.4.2 EUT Setup.....	21
3.4.3 Test Procedure	21
3.5 MAXIMUM CONDUCTED OUTPUT POWER:	22
3.5.1 Applicable Standard.....	22
3.5.2 EUT Setup.....	22
3.5.3 Test Procedure	22
3.6 MAXIMUM POWER SPECTRAL DENSITY:	23
3.6.1 Applicable Standard.....	23
3.6.2 EUT Setup.....	23
3.6.3 Test Procedure	23
3.7 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE:.....	24
3.7.1 Applicable Standard.....	24
3.7.2 EUT Setup.....	24

3.7.3 Test Procedure	24
3.8 DUTY CYCLE:.....	25
3.8.1 EUT Setup.....	25
3.8.2 Test Procedure	25
3.9 ANTENNA REQUIREMENT.....	26
3.9.1 Applicable Standard.....	26
3.9.2 Judgment.....	26
4. Test DATA AND RESULTS.....	27
4.1 AC LINE CONDUCTED EMISSIONS.....	27
4.2 RADIATION SPURIOUS EMISSIONS.....	30
4.3 MINIMUM 6 dB BANDWIDTH:	51
4.4 99% OCCUPIED BANDWIDTH:	58
4.5 MAXIMUM CONDUCTED OUTPUT POWER:	65
4.6 MAXIMUM POWER SPECTRAL DENSITY:	67
4.7 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE:	80
4.8 DUTY CYCLE:.....	93
5. EUT PHOTOGRAPHS	96
6. TEST SETUP PHOTOGRAPHS	97

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230957522-00B	Original Report	2023/11/28

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	AX3000 Dual Band Gigabit Wi-Fi 6 Router
EUT Model:	RX12 Pro
Multiple Models:	TX12 Pro,RX12,TX12
Operation Frequency:	2412-2462 MHz(802.11b/g/n ht20/ax he20) 2422-2452 MHz(802.11n ht40/ax he40)
Maximum Peak Output Power (Conducted):	27.9dBm
Modulation Type:	802.11b:DSSS-DBPSK, DQPSK, CCK 802.11g/n:OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM 802.11ax:OFDMA-BPSK, QPSK, 16QAM, 64QAM,256QAM,1024QAM
Rated Input Voltage:	DC12V from adapter
Serial Number:	2BVX-1
EUT Received Date:	2023/10/9
EUT Received Status:	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

Operation Frequency Detail: For 802.11b/g/n ht20/ax he20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/
Per section 15.31(m)/RSS-Gen, the below frequencies were performed the test as below:			
Test Channel		Frequency (MHz)	
Lowest		2412	
Middle		2437	
Highest		2462	

For 802.11n ht40/ax he40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437	/	/
Per section 15.31(m)/RSS-Gen, the below frequencies were performed the test as below:			
Test Channel		Frequency (MHz)	
Lowest		2422	
Middle		2437	
Highest		2452	

Antenna Information Detail▲:

Antenna Chain	Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
2.4G Chain 0 (ANT1)	SHENZHEN TENDA TECHNOLOGY CO.,LTD.	Dipole	50	2.4~2.5GHz	4.84 dBi
2.4G Chain 1 (ANT2)	TECHNOLOGY CO.,LTD.	Dipole	50	2.4~2.5GHz	4.84 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.

Note:

The system supports 2T2R Beamforming and Non-beamforming(CDD) modes at 802.11n/ax modes.
Per KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements:

CDD Mode:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$
directional gain=4.84 dBi

Beamforming Mode:

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.
directional gain=4.84 dBi+3dB=7.84 dBi

For power spectral density (PSD) measurements:

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.
directional gain=4.84 dBi+3dB=7.84 dBi

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.,LTD.	BN073-A12012U	Input: 100-240V~50/60Hz, 0.4A Output: 12V, 1A, 12.0W

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	QATool

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					
		Chain 0			Chain 1		
		Lowest	Middle	Highest	Lowest	Middle	Highest
802.11b	1Mbps	19	19	19	20	20	20
802.11g	6Mbps	15	15	15	16	16	16
802.11n ht20	MCS8	15	15	15	15	15	15
802.11n ht40	MCS8	15	15	15	15	15	15
802.11ax he20	MCS8	15	15	15	15	15	15
802.11ax he40	MCS8	15	15	15	15	15	15

Note:

1. 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. The device supports SISO in all modes, and MIMO 2T2R in 802.11n/ax modes, per pretest, 2T2R mode was the worst mode and reported for 802.11n/ax modes.
3. The system supports Beamforming and Non-beamforming modes at 802.11n/ax modes. The two modes have same output power, which are declared by manufacturer. Therefore, the all RF conducted test were performed at Non-beamforming mode only.
4. For 802.11 ax mode, the device only supports full-RU.

1.2.2 Support Equipment List and Details

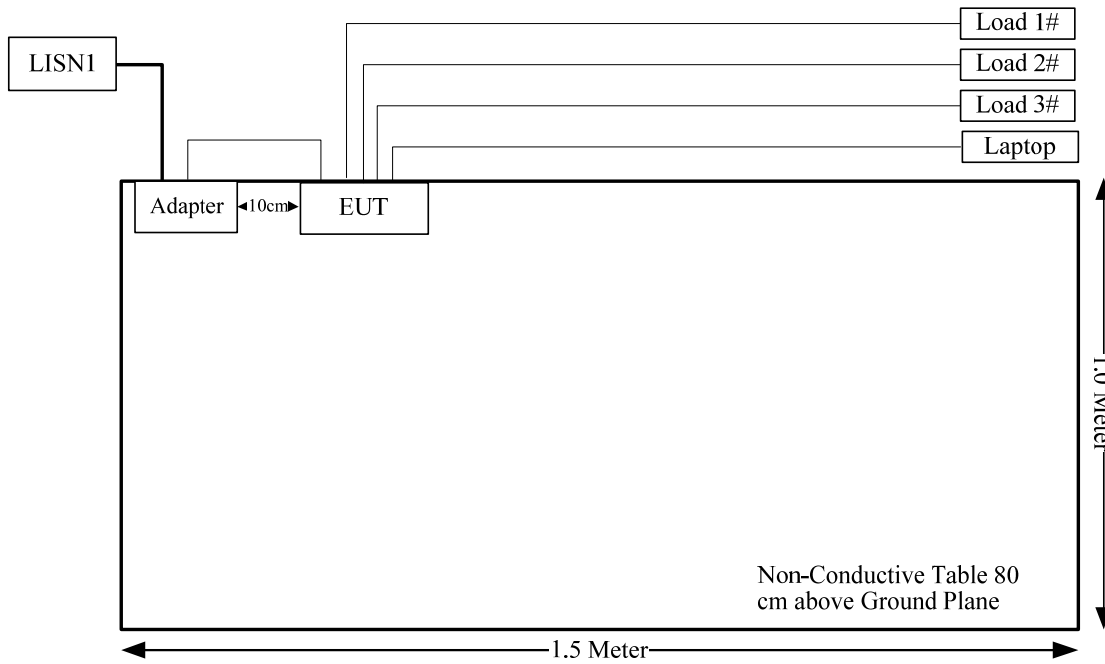
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T460S	60PDTEK8
Bacl	Load 1#	RJ45X8	F-EM-PHRJ45X8001
Bacl	Load 2#	RJ45X8	F-EM-PHRJ45X8002
Bacl	Load 3#	RJ45X8	F-EM-PHRJ45X8003

1.2.3 Support Cable List and Details

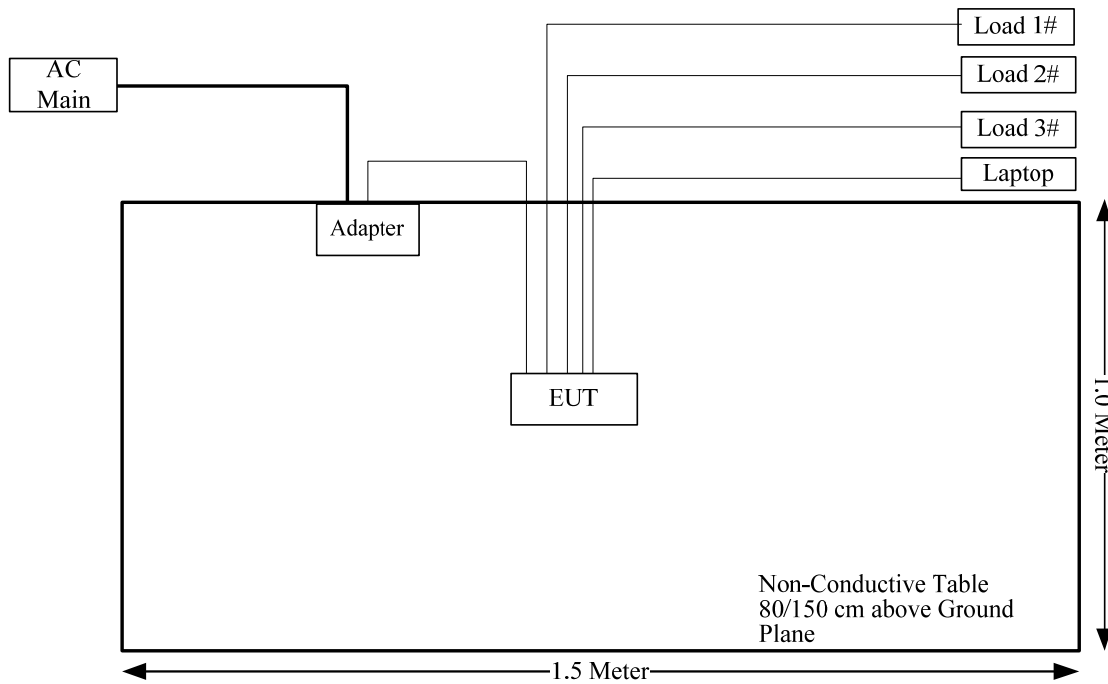
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	no	no	1.5	Adapter	EUT
RJ45 Cable	no	no	10.0	EUT	Laptop
RJ45 Cable 1#	no	no	10.0	EUT	Load 1#
RJ45 Cable 2#	no	no	10.0	EUT	Load 2#
RJ45 Cable 3#	no	no	10.0	EUT	Load 3#

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Radiated Spurious Emissions:



1.3 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	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a) RSS-Gen Clause 8.8	AC line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d) RSS-Gen Clause 8.10	Radiated Spurious Emissions	Compliant
§15.247 (a)(2) RSS-247 Clause 5.2 a)	Minimum 6 dB Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant
§15.247(b)(3) RSS-247 Clause 5.4 d)	Maximum Conducted Output Power	Compliant
§15.247(d) RSS-247 Clause5.5	100 kHz Bandwidth Of Frequency Band Edge	Compliant
§15.247(e) RSS-247 Clause5.2 b)	Power Spectral Density	Compliant
§15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 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 μ 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 μ 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 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ 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.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 – AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

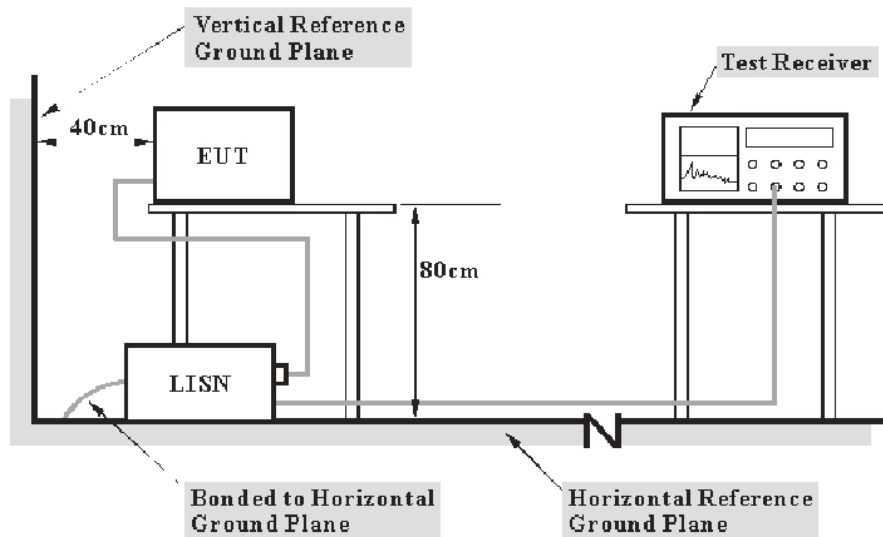
Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

3.1.2 EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

3.1.3 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

3.1.4 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.

3.1.5 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

3.2 Radiated Spurious Emissions

3.2.1 Applicable Standard

FCC §15.247 (d);

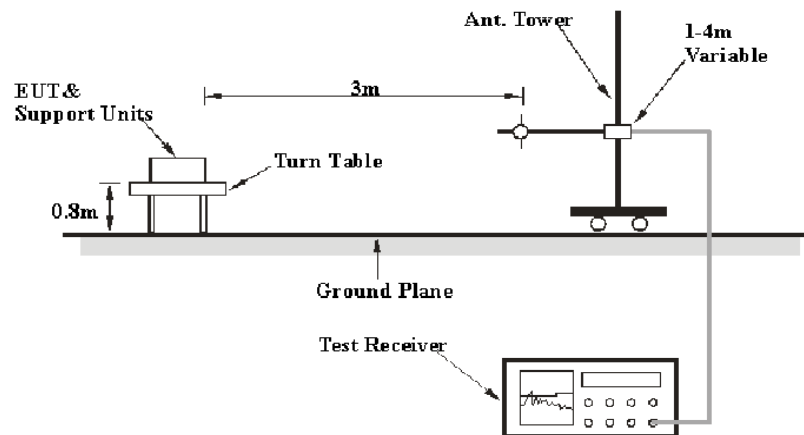
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

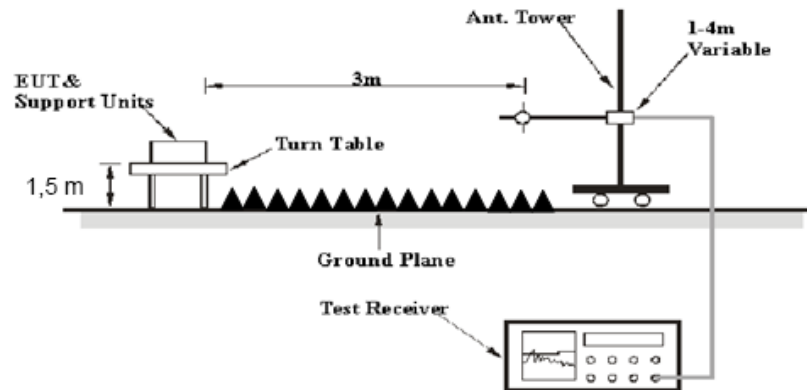
RSS-247 Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

3.2.2 EUT Setup

Below 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, RSS-247, RSS-Gen 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.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

30-1000MHz:

Detector	RBW	Video B/W	IF B/W
QP	100 kHz	300 kHz	120kHz

1GHz- 25GHz:

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

Note: T is minimum transmission duration

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

3.2.4 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.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$\text{Result} = \text{Reading} + \text{Factor}$$

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Result}$$

3.3 Minimum 6 dB Bandwidth:

3.3.1 Applicable Standard

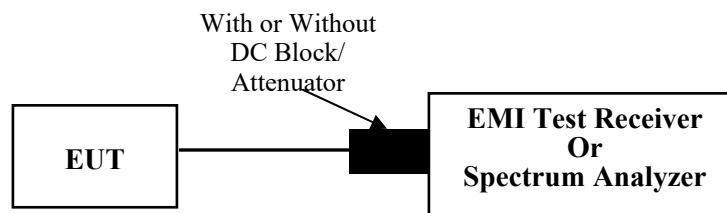
FCC §15.247 (a)(2)

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.

RSS-247 Clause 5.2 a

The minimum 6 dB bandwidth shall be 500 kHz.

3.3.2 EUT Setup



3.3.3 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.

3.4 99% Occupied Bandwidth:

3.4.1 Applicable Standard

RSS-Gen Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

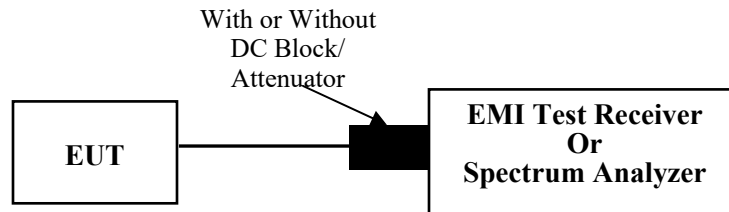
The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level 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, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

3.4.2 EUT Setup



3.4.3 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 $[10 \log (OBW/RBW)]$ 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).

3.5 Maximum Conducted Output Power:

3.5.1 Applicable Standard

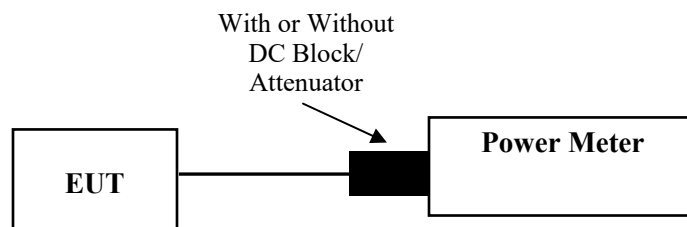
FCC §15.247 (b)(3)

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.

RSS-247 Clause 5.4 d

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

3.5.2 EUT Setup



3.5.3 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.

3.6 Maximum Power Spectral Density:

3.6.1 Applicable Standard

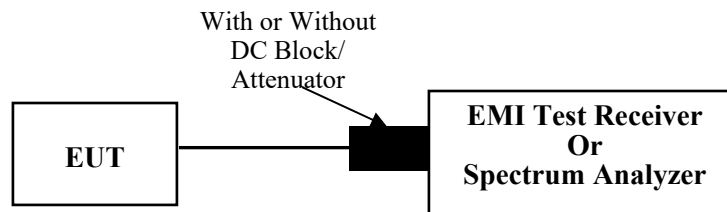
FCC §15.247 (e)

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.

RSS-247 Clause5.2 b

The transmitter power spectral density conducted from the transmitter 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 section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the 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.

3.7 100 kHz Bandwidth Of Frequency Band Edge:

3.7.1 Applicable Standard

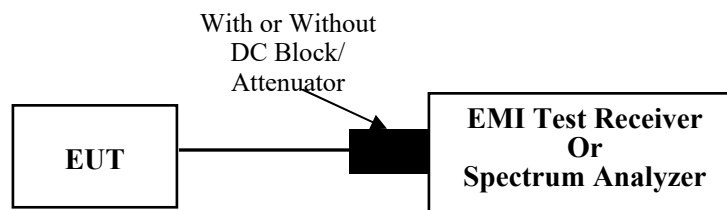
FCC §15.247 (d);

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)).

RSS-247 Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

3.7.2 EUT Setup



3.7.3 Test Procedure

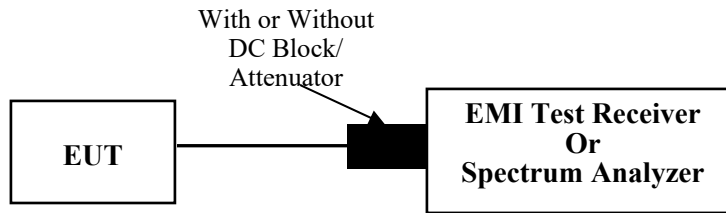
According to ANSI C63.10-2013 Section 11.11

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- 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.

3.8 Duty Cycle:

3.8.1 EUT Setup



3.8.2 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 $T \leq 16.7 \mu s$.)

3.9 Antenna Requirement

3.9.1 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.

RSS-Gen Clause 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

3.9.2 Judgment

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

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2BVX-1	Test Date:	2023/10/18
Test Site:	CE	Test Mode:	Transmitting maximum output power mode(802.11ax he20 mode Middle channel)was tested
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

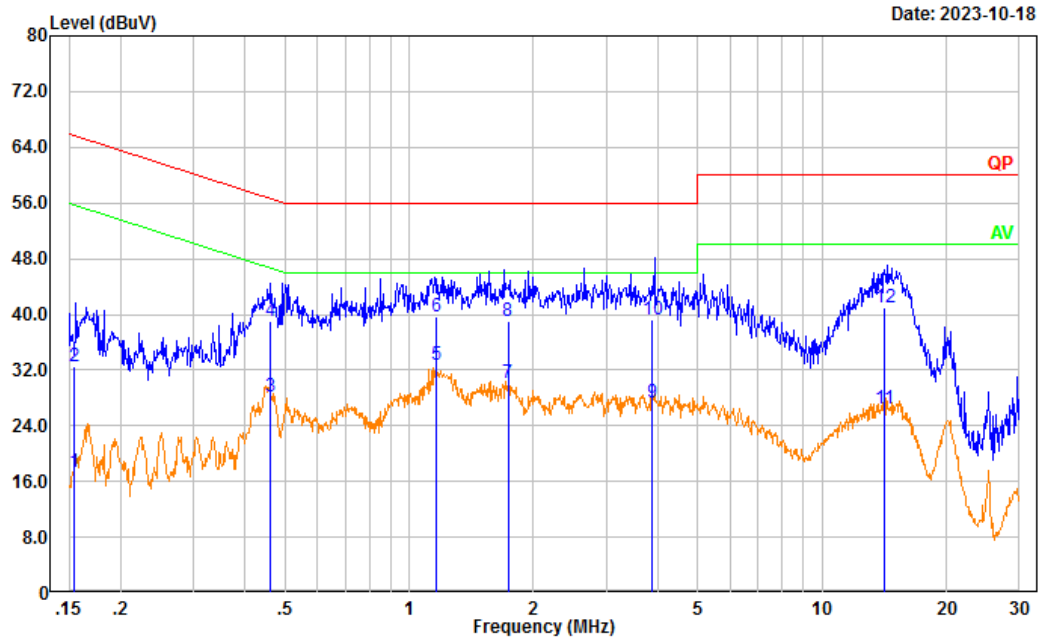
Temperature: (°C)	26.1	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101
----------------------	------	---------------------------	----	------------------------	-----

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/03/31	2024/03/30
R&S	EMI Test Receiver	ESR3	102726	2023/03/31	2024/03/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/08/06	2024/08/05
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

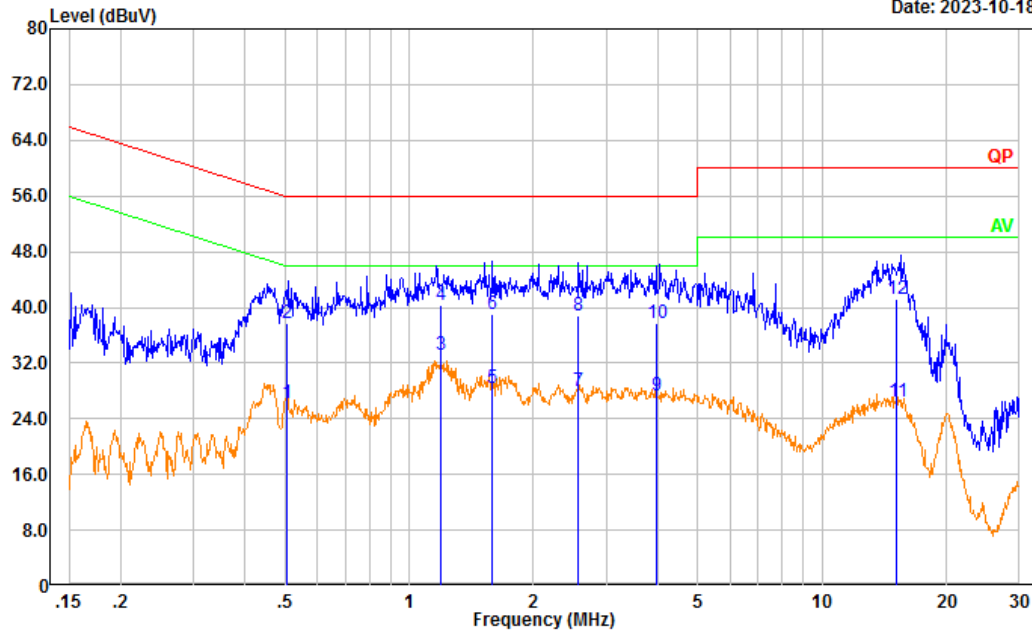
Project No.: CR230957522-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(2.4G RX12Pro)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.154	7.75	9.61	17.36	55.78	38.42	Average
2	0.154	22.92	9.61	32.53	65.78	33.25	QP
3	0.462	18.65	9.61	28.26	46.66	18.40	Average
4	0.462	29.42	9.61	39.03	56.66	17.63	QP
5	1.167	23.19	9.62	32.81	46.00	13.19	Average
6	1.167	30.01	9.62	39.63	56.00	16.37	QP
7	1.734	20.42	9.63	30.05	46.00	15.95	Average
8	1.734	29.37	9.63	39.00	56.00	17.00	QP
9	3.862	17.74	9.65	27.39	46.00	18.61	Average
10	3.862	29.60	9.65	39.25	56.00	16.75	QP
11	14.110	16.71	9.68	26.39	50.00	23.61	Average
12	14.110	31.29	9.68	40.97	60.00	19.03	QP

Project No.: CR230957522-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(2.4G RX12Pro)

Date: 2023-10-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.505	16.69	9.61	26.30	46.00	19.70	Average
2	0.505	28.17	9.61	37.78	56.00	18.22	QP
3	1.189	23.50	9.62	33.12	46.00	12.88	Average
4	1.189	30.78	9.62	40.40	56.00	15.60	QP
5	1.585	18.79	9.63	28.42	46.00	17.58	Average
6	1.585	29.46	9.63	39.09	56.00	16.91	QP
7	2.564	18.38	9.64	28.02	46.00	17.98	Average
8	2.564	29.20	9.64	38.84	56.00	17.16	QP
9	3.972	17.60	9.65	27.25	46.00	18.75	Average
10	3.972	28.00	9.65	37.65	56.00	18.35	QP
11	15.153	16.75	9.69	26.44	50.00	23.56	Average
12	15.153	31.49	9.69	41.18	60.00	18.82	QP

4.2 Radiation Spurious Emissions

Serial Number:	2BVX-1	Test Date:	2023/11/5~2023/11/10
Test Site:	966-1/966-2	Test Mode:	Transmitting
Tester:	Jeff Luo, Tao Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6~26.8	Relative Humidity: (%)	55~58	ATM Pressure: (kPa)	100.8~101.1
----------------------	-----------	---------------------------	-------	------------------------	-------------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/02/22	2026/02/21
R&S	Spectrum Analyzer	FSV40	101591	2023/03/31	2024/03/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/08/06	2024/08/05
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/08/06	2024/08/05
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/08	2024/11/07
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/09/15	2024/09/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/08/06	2024/08/05
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/08/06	2024/08/05
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/08/06	2024/08/05

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

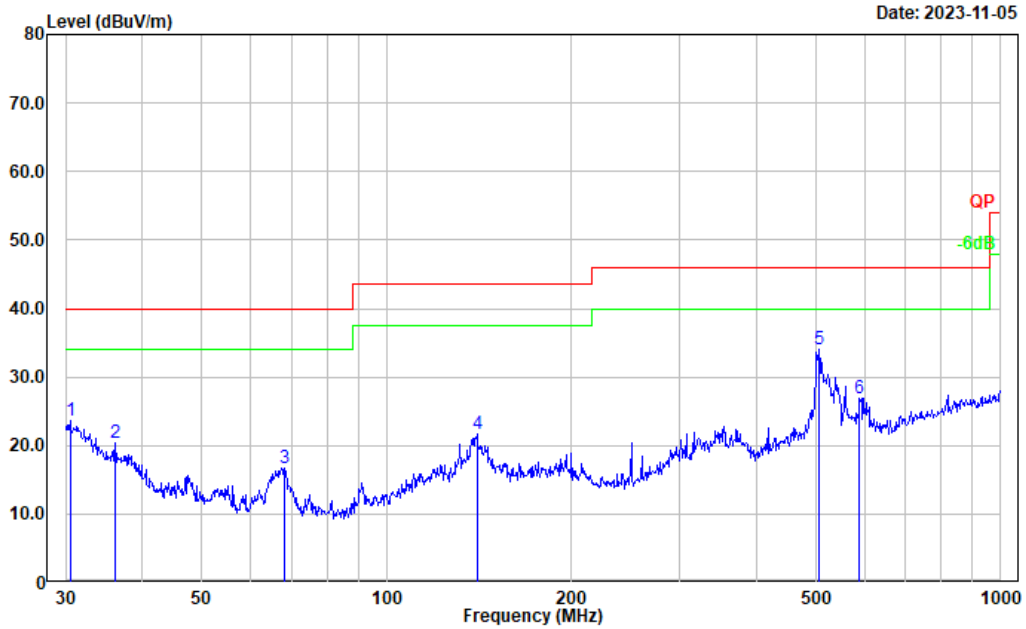
Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

1) 30MHz-1GHz (maximum output power mode-802.11 ax he20 mode was tested)

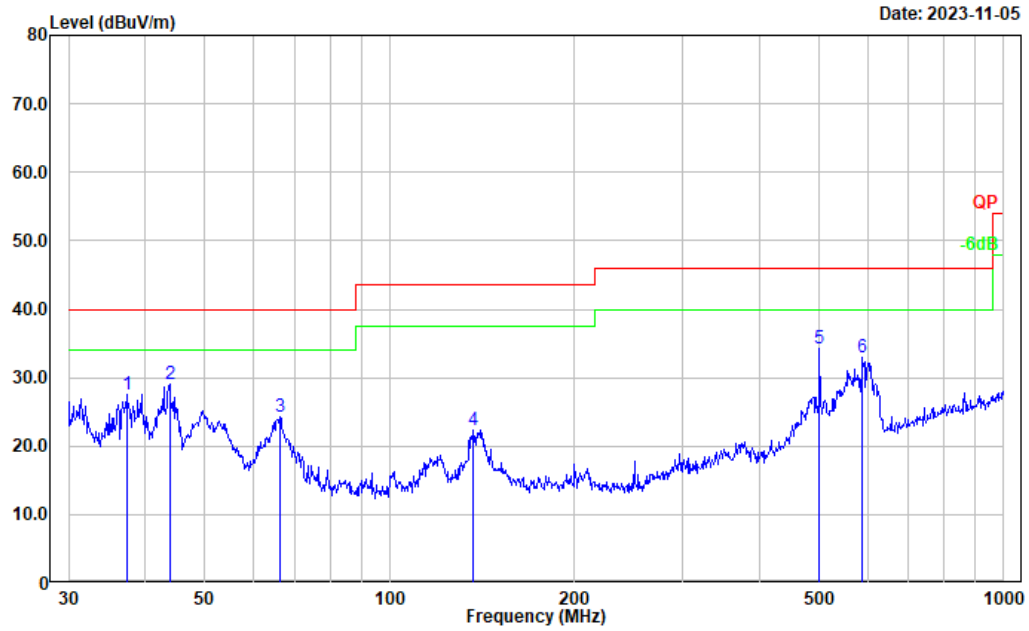
Low channel:

Project No.: CR230957522-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.93	-4.20	23.73	40.00	16.27	Peak
2	36.127	28.91	-8.48	20.43	40.00	19.57	Peak
3	68.151	33.50	-16.73	16.77	40.00	23.23	Peak
4	140.342	33.39	-11.79	21.60	43.50	21.90	Peak
5	506.479	39.92	-5.91	34.01	46.00	11.99	Peak
6	588.905	32.27	-5.34	26.93	46.00	19.07	Peak

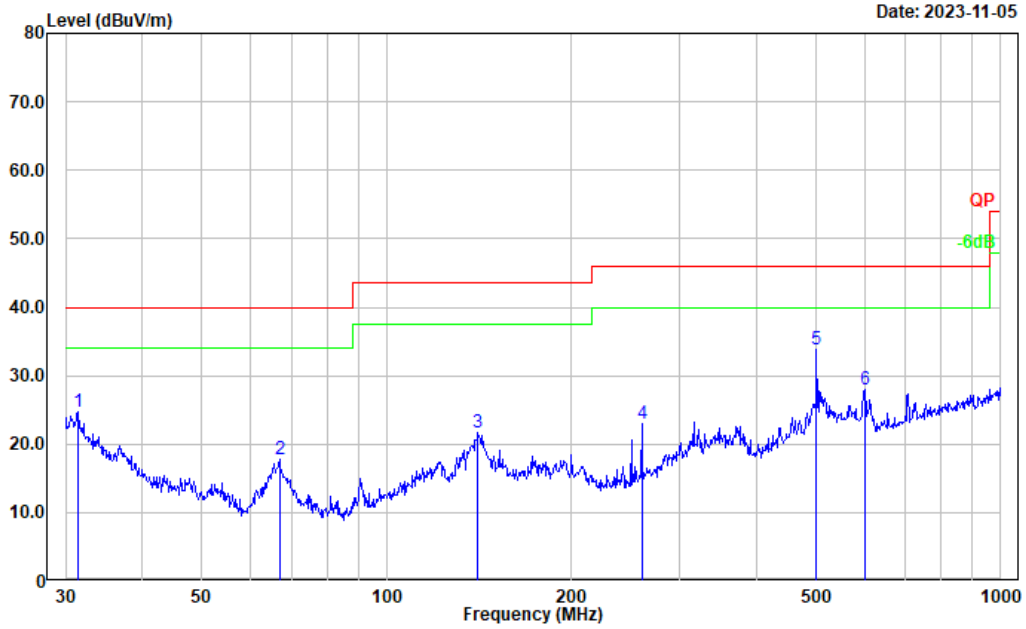
Project No.: CR230957522-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	37.285	36.93	-9.35	27.58	40.00	12.42	Peak
2	43.812	42.71	-13.58	29.13	40.00	10.87	Peak
3	66.266	41.05	-16.86	24.19	40.00	15.81	Peak
4	136.939	34.03	-11.63	22.40	43.50	21.10	Peak
5	501.179	40.16	-5.99	34.17	46.00	11.83	Peak
6	588.905	38.34	-5.34	33.00	46.00	13.00	Peak

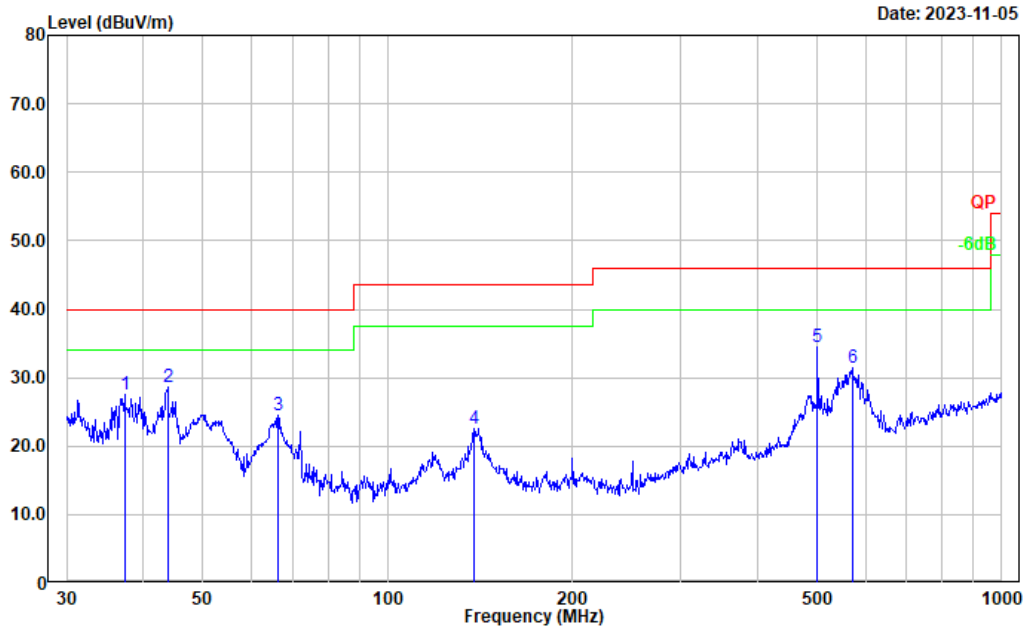
Middle channel:

Project No.: CR230957522-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.399	29.55	-4.86	24.69	40.00	15.31	Peak
2	66.967	34.48	-16.80	17.68	40.00	22.32	Peak
3	140.835	33.56	-11.83	21.73	43.50	21.77	Peak
4	260.144	35.55	-12.50	23.05	46.00	22.95	Peak
5	501.179	39.77	-5.99	33.78	46.00	12.22	Peak
6	601.427	33.01	-5.03	27.98	46.00	18.02	Peak

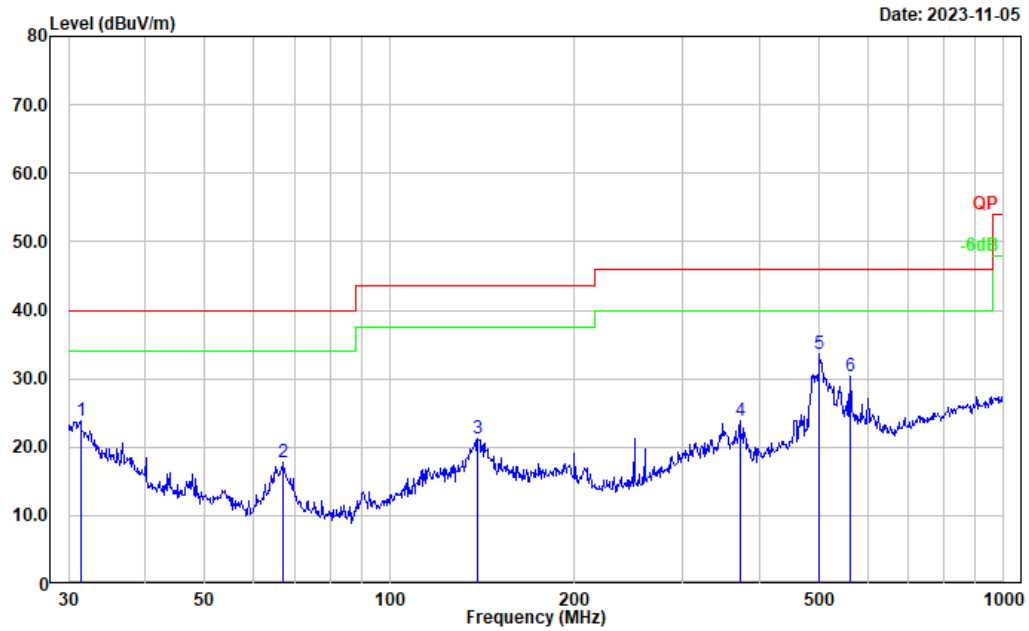
Project No.: CR230957522-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	37.285	36.84	-9.35	27.49	40.00	12.51	Peak
2	43.812	42.28	-13.58	28.70	40.00	11.30	Peak
3	66.266	41.26	-16.86	24.40	40.00	15.60	Peak
4	137.903	34.28	-11.72	22.56	43.50	20.94	Peak
5	501.179	40.40	-5.99	34.41	46.00	11.59	Peak
6	570.610	37.13	-5.62	31.51	46.00	14.49	Peak

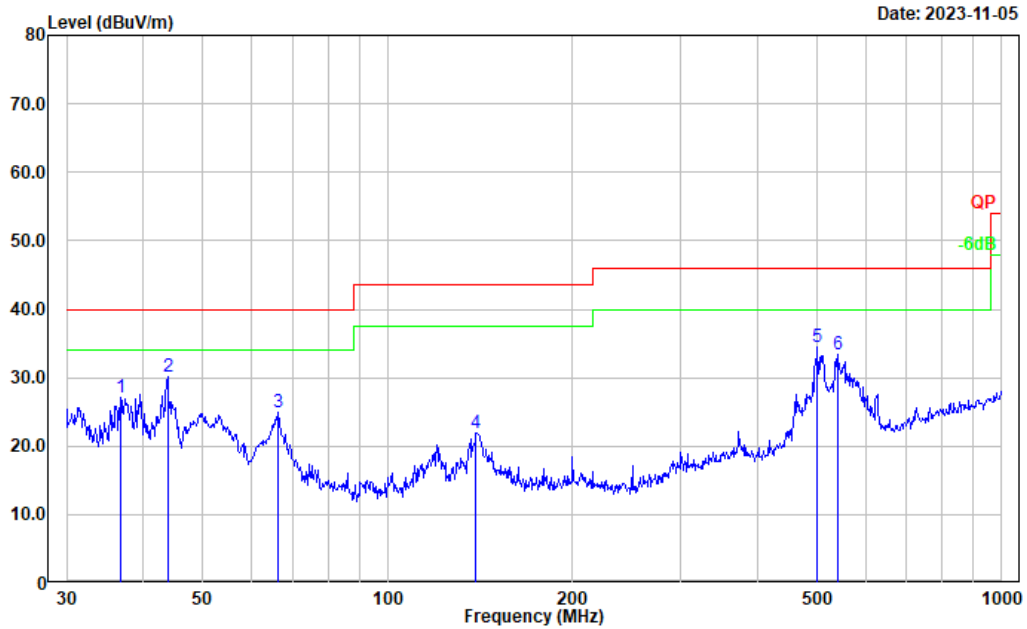
High channel:

Project No.: CR230957522-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.399	28.76	-4.86	23.90	40.00	16.10	Peak
2	67.202	34.69	-16.80	17.89	40.00	22.11	Peak
3	139.361	32.96	-11.74	21.22	43.50	22.28	Peak
4	372.005	33.38	-9.45	23.93	46.00	22.07	Peak
5	501.179	39.49	-5.99	33.50	46.00	12.50	Peak
6	562.662	35.99	-5.63	30.36	46.00	15.64	Peak

Project No.: CR230957522-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	36.766	36.02	-8.97	27.05	40.00	12.95	Peak
2	43.812	43.69	-13.58	30.11	40.00	9.89	Peak
3	66.266	41.86	-16.86	25.00	40.00	15.00	Peak
4	139.361	33.66	-11.74	21.92	43.50	21.58	Peak
5	501.179	40.56	-5.99	34.57	46.00	11.43	Peak
6	541.373	39.36	-5.92	33.44	46.00	12.56	Peak

**2) 1-25GHz:
802.11b Mode: Chain 0**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2412 MHz							
2390.000	27.13	PK	H	31.71	58.84	74.00	15.16
2390.000	14.65	AV	H	31.71	46.36	54.00	7.64
2390.000	27.98	PK	V	31.71	59.69	74.00	14.31
2390.000	14.77	AV	V	31.71	46.48	54.00	7.52
4824.000	38.98	PK	H	11.26	50.24	74.00	23.76
4824.000	35.10	AV	H	11.26	46.36	54.00	7.64
4824.000	43.60	PK	V	11.26	54.86	74.00	19.14
4824.000	39.77	AV	V	11.26	51.03	54.00	2.97
7236.000	36.12	PK	H	15.24	51.36	74.00	22.64
7236.000	23.58	AV	H	15.24	38.82	54.00	15.18
7236.000	37.11	PK	V	15.24	52.35	74.00	21.65
7236.000	24.38	AV	V	15.24	39.62	54.00	14.38
Middle Channel: 2437 MHz							
4874.000	39.60	PK	H	11.45	51.05	74.00	22.95
4874.000	35.41	AV	H	11.45	46.86	54.00	7.14
4874.000	43.21	PK	V	11.45	54.66	74.00	19.34
4874.000	39.38	AV	V	11.45	50.83	54.00	3.17
7311.000	36.23	PK	H	15.58	51.81	74.00	22.19
7311.000	23.17	AV	H	15.58	38.75	54.00	15.25
7311.000	36.82	PK	V	15.58	52.40	74.00	21.60
7311.000	23.48	AV	V	15.58	39.06	54.00	14.94
High Channel: 2462MHz							
2483.500	28.66	PK	H	32.19	60.85	74.00	13.15
2483.500	17.21	AV	H	32.19	49.40	54.00	4.60
2483.500	28.78	PK	V	32.19	60.97	74.00	13.03
2483.500	17.25	AV	V	32.19	49.44	54.00	4.56
4924.000	39.17	PK	H	11.67	50.84	74.00	23.16
4924.000	35.78	AV	H	11.67	47.45	54.00	6.55
4924.000	43.13	PK	V	11.67	54.80	74.00	19.20
4924.000	39.42	AV	V	11.67	51.09	54.00	2.91
7386.000	36.52	PK	H	15.63	52.15	74.00	21.85
7386.000	23.45	AV	H	15.63	39.08	54.00	14.92
7386.000	36.77	PK	V	15.63	52.40	74.00	21.60
7386.000	23.64	AV	V	15.63	39.27	54.00	14.73

802.11b Mode: Chain 1

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2412 MHz							
2390.000	27.68	PK	H	31.71	59.39	74.00	14.61
2390.000	14.69	AV	H	31.71	46.40	54.00	7.60
2390.000	27.72	PK	V	31.71	59.43	74.00	14.57
2390.000	15.47	AV	V	31.71	47.18	54.00	6.82
4824.000	39.82	PK	H	11.26	51.08	74.00	22.92
4824.000	35.47	AV	H	11.26	46.73	54.00	7.27
4824.000	43.57	PK	V	11.26	54.83	74.00	19.17
4824.000	39.93	AV	V	11.26	51.19	54.00	2.81
7236.000	36.41	PK	H	15.24	51.65	74.00	22.35
7236.000	23.20	AV	H	15.24	38.44	54.00	15.56
7236.000	36.72	PK	V	15.24	51.96	74.00	22.04
7236.000	23.62	AV	V	15.24	38.86	54.00	15.14
Middle Channel: 2437 MHz							
4874.000	39.52	PK	H	11.45	50.97	74.00	23.03
4874.000	35.41	AV	H	11.45	46.86	54.00	7.14
4874.000	43.55	PK	V	11.45	55.00	74.00	19.00
4874.000	39.83	AV	V	11.45	51.28	54.00	2.72
7311.000	35.98	PK	H	15.58	51.56	74.00	22.44
7311.000	22.78	AV	H	15.58	38.36	54.00	15.64
7311.000	36.42	PK	V	15.58	52.00	74.00	22.00
7311.000	21.41	AV	V	15.58	36.99	54.00	17.01
High Channel: 2462MHz							
2483.500	28.47	PK	H	32.19	60.66	74.00	13.34
2483.500	16.85	AV	H	32.19	49.04	54.00	4.96
2483.500	28.67	PK	V	32.19	60.86	74.00	13.14
2483.500	17.08	AV	V	32.19	49.27	54.00	4.73
4924.000	40.66	PK	H	11.67	52.33	74.00	21.67
4924.000	36.78	AV	H	11.67	48.45	54.00	5.55
4924.000	44.32	PK	V	11.67	55.99	74.00	18.01
4924.000	40.49	AV	V	11.67	52.16	54.00	1.84
7386.000	36.47	PK	H	15.63	52.10	74.00	21.90
7386.000	23.45	AV	H	15.63	39.08	54.00	14.92
7386.000	36.82	PK	V	15.63	52.45	74.00	21.55
7386.000	23.66	AV	V	15.63	39.29	54.00	14.71

802.11g Mode: Chain 0

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2412 MHz							
2390.000	36.42	PK	H	31.71	68.13	74.00	5.87
2390.000	17.66	AV	H	31.71	49.37	54.00	4.63
2390.000	40.42	PK	V	31.71	72.13	74.00	1.87
2390.000	19.77	AV	V	31.71	51.48	54.00	2.52
4824.000	38.95	PK	H	11.26	50.21	74.00	23.79
4824.000	24.78	AV	H	11.26	36.04	54.00	17.96
4824.000	40.52	PK	V	11.26	51.78	74.00	22.22
4824.000	26.85	AV	V	11.26	38.11	54.00	15.89
7236.000	34.69	PK	H	15.24	49.93	74.00	24.07
7236.000	21.41	AV	H	15.24	36.65	54.00	17.35
7236.000	35.47	PK	V	15.24	50.71	74.00	23.29
7236.000	22.14	AV	V	15.24	37.38	54.00	16.62
Middle Channel: 2437 MHz							
4874.000	38.78	PK	H	11.45	50.23	74.00	23.77
4874.000	25.14	AV	H	11.45	36.59	54.00	17.41
4874.000	40.44	PK	V	11.45	51.89	74.00	22.11
4874.000	27.69	AV	V	11.45	39.14	54.00	14.86
7311.000	35.86	PK	H	15.58	51.44	74.00	22.56
7311.000	22.36	AV	H	15.58	37.94	54.00	16.06
7311.000	36.67	PK	V	15.58	52.25	74.00	21.75
7311.000	23.47	AV	V	15.58	39.05	54.00	14.95
High Channel: 2462MHz							
2483.500	35.82	PK	H	32.19	68.01	74.00	5.99
2483.500	16.42	AV	H	32.19	48.61	54.00	5.39
2483.500	39.56	PK	V	32.19	71.75	74.00	2.25
2483.500	19.47	AV	V	32.19	51.66	54.00	2.34
4924.000	38.79	PK	H	11.67	50.46	74.00	23.54
4924.000	25.10	AV	H	11.67	36.77	54.00	17.23
4924.000	41.20	PK	V	11.67	52.87	74.00	21.13
4924.000	27.30	AV	V	11.67	38.97	54.00	15.03
7386.000	36.20	PK	H	15.63	51.83	74.00	22.17
7386.000	23.41	AV	H	15.63	39.04	54.00	14.96
7386.000	36.74	PK	V	15.63	52.37	74.00	21.63
7386.000	23.22	AV	V	15.63	38.85	54.00	15.15

802.11g Mode: Chain 1

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 2412 MHz							
2390.000	34.25	PK	H	31.71	65.96	74.00	8.04
2390.000	16.85	AV	H	31.71	48.56	54.00	5.44
2390.000	38.44	PK	V	31.71	70.15	74.00	3.85
2390.000	18.65	AV	V	31.71	50.36	54.00	3.64
4824.000	37.98	PK	H	11.26	49.24	74.00	24.76
4824.000	24.20	AV	H	11.26	35.46	54.00	18.54
4824.000	38.47	PK	V	11.26	49.73	74.00	24.27
4824.000	25.30	AV	V	11.26	36.56	54.00	17.44
7236.000	34.22	PK	H	15.24	49.46	74.00	24.54
7236.000	21.69	AV	H	15.24	36.93	54.00	17.07
7236.000	34.82	PK	V	15.24	50.06	74.00	23.94
7236.000	21.82	AV	V	15.24	37.06	54.00	16.94
Middle Channel: 2437 MHz							
4874.000	37.92	PK	H	11.45	49.37	74.00	24.63
4874.000	24.30	AV	H	11.45	35.75	54.00	18.25
4874.000	38.11	PK	V	11.45	49.56	74.00	24.44
4874.000	27.69	AV	V	11.45	39.14	54.00	14.86
7311.000	34.87	PK	H	15.58	50.45	74.00	23.55
7311.000	21.65	AV	H	15.58	37.23	54.00	16.77
7311.000	35.69	PK	V	15.58	51.27	74.00	22.73
7311.000	22.36	AV	V	15.58	37.94	54.00	16.06
High Channel: 2462MHz							
2483.500	35.20	PK	H	32.19	67.39	74.00	6.61
2483.500	16.74	AV	H	32.19	48.93	54.00	5.07
2483.500	39.78	PK	V	32.19	71.97	74.00	2.03
2483.500	18.65	AV	V	32.19	50.84	54.00	3.16
4924.000	38.92	PK	H	11.67	50.59	74.00	23.41
4924.000	25.44	AV	H	11.67	37.11	54.00	16.89
4924.000	40.69	PK	V	11.67	52.36	74.00	21.64
4924.000	26.82	AV	V	11.67	38.49	54.00	15.51
7386.000	35.42	PK	H	15.63	51.05	74.00	22.95
7386.000	22.30	AV	H	15.63	37.93	54.00	16.07
7386.000	34.39	PK	V	15.63	50.02	74.00	23.98
7386.000	21.28	AV	V	15.63	36.91	54.00	17.09

802.11n ht20 Mode(2TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2412 MHz							
2390.000	30.12	PK	H	31.71	61.83	74.00	12.17
2390.000	15.20	AV	H	31.71	46.91	54.00	7.09
2390.000	31.46	PK	V	31.71	63.17	74.00	10.83
2390.000	15.92	AV	V	31.71	47.63	54.00	6.37
4824.000	35.41	PK	H	11.26	46.67	74.00	27.33
4824.000	22.41	AV	H	11.26	33.67	54.00	20.33
4824.000	35.91	PK	V	11.26	47.17	74.00	26.83
4824.000	22.69	AV	V	11.26	33.95	54.00	20.05
7236.000	33.87	PK	H	15.24	49.11	74.00	24.89
7236.000	20.94	AV	H	15.24	36.18	54.00	17.82
7236.000	34.56	PK	V	15.24	49.80	74.00	24.20
7236.000	21.25	AV	V	15.24	36.49	54.00	17.51
Middle Channel: 2437 MHz							
4874.000	34.25	PK	H	11.45	45.70	74.00	28.30
4874.000	21.63	AV	H	11.45	33.08	54.00	20.92
4874.000	34.66	PK	V	11.45	46.11	74.00	27.89
4874.000	21.74	AV	V	11.45	33.19	54.00	20.81
7311.000	33.69	PK	H	15.58	49.27	74.00	24.73
7311.000	21.02	AV	H	15.58	36.60	54.00	17.40
7311.000	34.85	PK	V	15.58	50.43	74.00	23.57
7311.000	21.39	AV	V	15.58	36.97	54.00	17.03
High Channel: 2462MHz							
2483.500	38.42	PK	H	32.19	70.61	74.00	3.39
2483.500	18.77	AV	H	32.19	50.96	54.00	3.04
2483.500	40.01	PK	V	32.19	72.20	74.00	1.80
2483.500	20.34	AV	V	32.19	52.53	54.00	1.47
4924.000	34.20	PK	H	11.67	45.87	74.00	28.13
4924.000	21.36	AV	H	11.67	33.03	54.00	20.97
4924.000	34.52	PK	V	11.67	46.19	74.00	27.81
4924.000	21.68	AV	V	11.67	33.35	54.00	20.65
7386.000	33.57	PK	H	15.63	49.20	74.00	24.80
7386.000	20.77	AV	H	15.63	36.40	54.00	17.60
7386.000	34.26	PK	V	15.63	49.89	74.00	24.11
7386.000	21.42	AV	V	15.63	37.05	54.00	16.95

802.11n ht40 Mode(2TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 2422 MHz							
2390.000	32.02	PK	H	31.71	63.73	74.00	10.27
2390.000	17.32	AV	H	31.71	49.03	54.00	4.97
2390.000	33.69	PK	V	31.71	65.40	74.00	8.60
2390.000	18.78	AV	V	31.71	50.49	54.00	3.51
4844.000	35.77	PK	H	11.31	47.08	74.00	26.92
4844.000	22.14	AV	H	11.31	33.45	54.00	20.55
4844.000	36.24	PK	V	11.31	47.55	74.00	26.45
4844.000	23.54	AV	V	11.31	34.85	54.00	19.15
7266.000	33.52	PK	H	15.43	48.95	74.00	25.05
7266.000	20.14	AV	H	15.43	35.57	54.00	18.43
7266.000	34.20	PK	V	15.43	49.63	74.00	24.37
7266.000	21.23	AV	V	15.43	36.66	54.00	17.34
Middle Channel: 2437 MHz							
4874.000	34.20	PK	H	11.45	45.65	74.00	28.35
4874.000	21.08	AV	H	11.45	32.53	54.00	21.47
4874.000	34.61	PK	V	11.45	46.06	74.00	27.94
4874.000	21.35	AV	V	11.45	32.80	54.00	21.20
7311.000	33.69	PK	H	15.58	49.27	74.00	24.73
7311.000	21.04	AV	H	15.58	36.62	54.00	17.38
7311.000	34.62	PK	V	15.58	50.20	74.00	23.80
7311.000	21.26	AV	V	15.58	36.84	54.00	17.16
High Channel: 2452MHz							
2483.500	33.87	PK	H	32.19	66.06	74.00	7.94
2483.500	18.78	AV	H	32.19	50.97	54.00	3.03
2483.500	35.69	PK	V	32.19	67.88	74.00	6.12
2483.500	20.08	AV	V	32.19	52.27	54.00	1.73
4904.000	35.21	PK	H	11.58	46.79	74.00	27.21
4904.000	22.25	AV	H	11.58	33.83	54.00	20.17
4904.000	36.88	PK	V	11.58	48.46	74.00	25.54
4904.000	23.54	AV	V	11.58	35.12	54.00	18.88
7356.000	33.40	PK	H	15.55	48.95	74.00	25.05
7356.000	20.39	AV	H	15.55	35.94	54.00	18.06
7356.000	34.52	PK	V	15.55	50.07	74.00	23.93
7356.000	21.39	AV	V	15.55	36.94	54.00	17.06

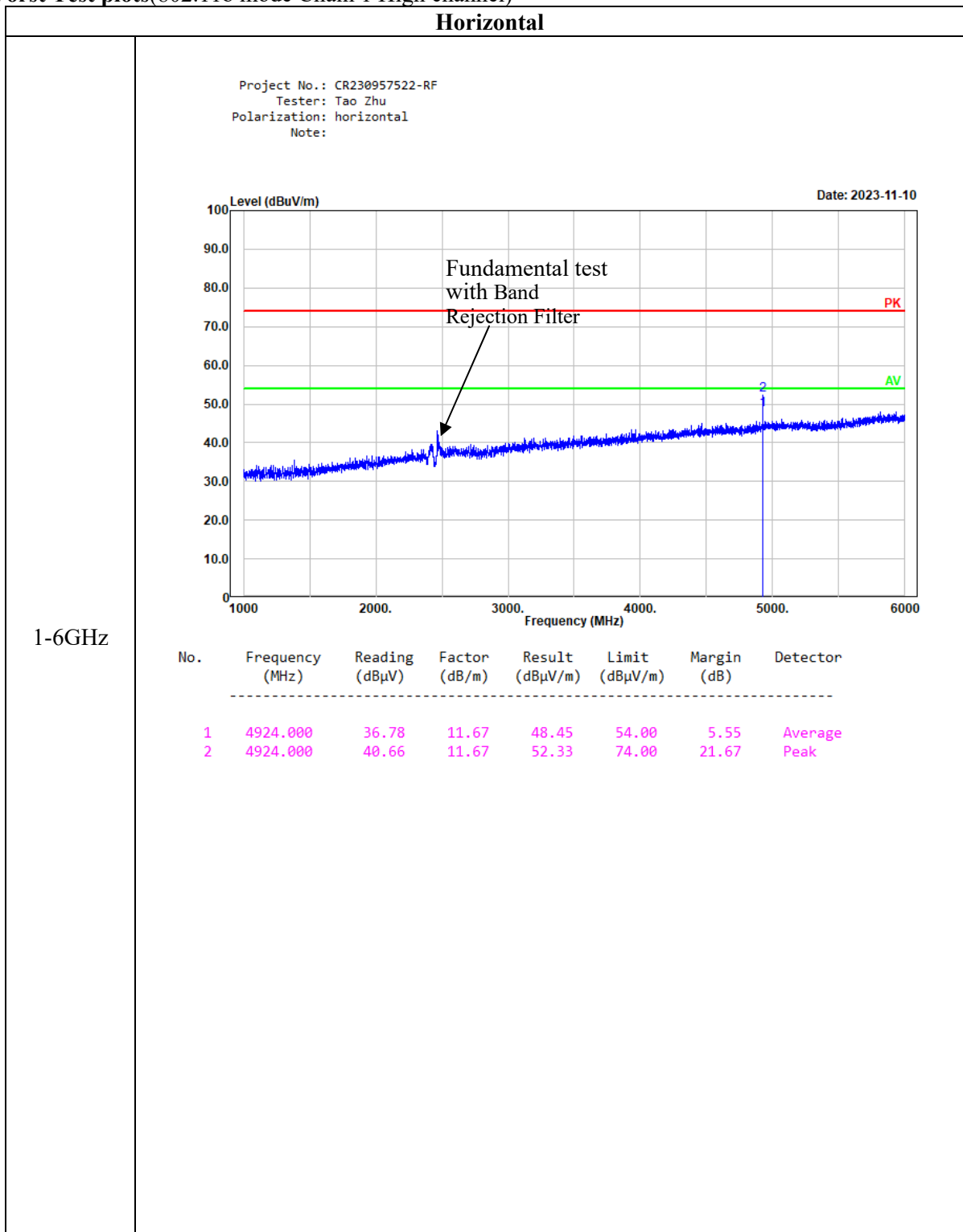
802.11ax he20 Mode(2TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2412 MHz							
2390.000	36.42	PK	H	31.71	68.13	74.00	5.87
2390.000	17.82	AV	H	31.71	49.53	54.00	4.47
2390.000	38.74	PK	V	31.71	70.45	74.00	3.55
2390.000	18.92	AV	V	31.71	50.63	54.00	3.37
4824.000	36.85	PK	H	11.26	48.11	74.00	25.89
4824.000	23.73	AV	H	11.26	34.99	54.00	19.01
4824.000	38.89	PK	V	11.26	50.15	74.00	23.85
4824.000	25.45	AV	V	11.26	36.71	54.00	17.29
7236.000	34.53	PK	H	15.24	49.77	74.00	24.23
7236.000	21.55	AV	H	15.24	36.79	54.00	17.21
7236.000	35.45	PK	V	15.24	50.69	74.00	23.31
7236.000	22.13	AV	V	15.24	37.37	54.00	16.63
Middle Channel: 2437 MHz							
4874.000	37.20	PK	H	11.45	48.65	74.00	25.35
4874.000	24.69	AV	H	11.45	36.14	54.00	17.86
4874.000	39.53	PK	V	11.45	50.98	74.00	23.02
4874.000	26.42	AV	V	11.45	37.87	54.00	16.13
7311.000	33.36	PK	H	15.58	48.94	74.00	25.06
7311.000	20.23	AV	H	15.58	35.81	54.00	18.19
7311.000	34.21	PK	V	15.58	49.79	74.00	24.21
7311.000	21.08	AV	V	15.58	36.66	54.00	17.34
High Channel: 2462MHz							
2483.500	35.12	PK	H	32.19	67.31	74.00	6.69
2483.500	17.50	AV	H	32.19	49.69	54.00	4.31
2483.500	37.81	PK	V	32.19	70.00	74.00	4.00
2483.500	19.35	AV	V	32.19	51.54	54.00	2.46
4924.000	37.55	PK	H	11.67	49.22	74.00	24.78
4924.000	24.28	AV	H	11.67	35.95	54.00	18.05
4924.000	39.66	PK	V	11.67	51.33	74.00	22.67
4924.000	26.52	AV	V	11.67	38.19	54.00	15.81
7386.000	33.86	PK	H	15.63	49.49	74.00	24.51
7386.000	21.20	AV	H	15.63	36.83	54.00	17.17
7386.000	34.52	PK	V	15.63	50.15	74.00	23.85
7386.000	21.63	AV	V	15.63	37.26	54.00	16.74

802.11ax he40 Mode(2TX Non-beamforming mode was the worst):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2422 MHz							
2390.000	38.69	PK	H	31.71	70.40	74.00	3.60
2390.000	18.50	AV	H	31.71	50.21	54.00	3.79
2390.000	41.42	PK	V	31.71	73.13	74.00	0.87
2390.000	20.40	AV	V	31.71	52.11	54.00	1.89
4844.000	35.89	PK	H	11.31	47.20	74.00	26.80
4844.000	22.82	AV	H	11.31	34.13	54.00	19.87
4844.000	36.86	PK	V	11.31	48.17	74.00	25.83
4844.000	23.58	AV	V	11.31	34.89	54.00	19.11
7266.000	33.72	PK	H	15.43	49.15	74.00	24.85
7266.000	20.12	AV	H	15.43	35.55	54.00	18.45
7266.000	34.02	PK	V	15.43	49.45	74.00	24.55
7266.000	20.58	AV	V	15.43	36.01	54.00	17.99
Middle Channel: 2437 MHz							
4874.000	36.59	PK	H	11.45	48.04	74.00	25.96
4874.000	23.28	AV	H	11.45	34.73	54.00	19.27
4874.000	37.44	PK	V	11.45	48.89	74.00	25.11
4874.000	24.12	AV	V	11.45	35.57	54.00	18.43
7311.000	33.28	PK	H	15.58	48.86	74.00	25.14
7311.000	20.10	AV	H	15.58	35.68	54.00	18.32
7311.000	33.56	PK	V	15.58	49.14	74.00	24.86
7311.000	20.36	AV	V	15.58	35.94	54.00	18.06
High Channel: 2452MHz							
2483.500	30.20	PK	H	32.19	62.39	74.00	11.61
2483.500	16.25	AV	H	32.19	48.44	54.00	5.56
2483.500	31.08	PK	V	32.19	63.27	74.00	10.73
2483.500	16.87	AV	V	32.19	49.06	54.00	4.94
4904.000	36.58	PK	H	11.58	48.16	74.00	25.84
4904.000	23.48	AV	H	11.58	35.06	54.00	18.94
4904.000	37.85	PK	V	11.58	49.43	74.00	24.57
4904.000	24.22	AV	V	11.58	35.80	54.00	18.20
7356.000	33.45	PK	H	15.55	49.00	74.00	25.00
7356.000	20.20	AV	H	15.55	35.75	54.00	18.25
7356.000	33.67	PK	V	15.55	49.22	74.00	24.78
7356.000	20.55	AV	V	15.55	36.10	54.00	17.90

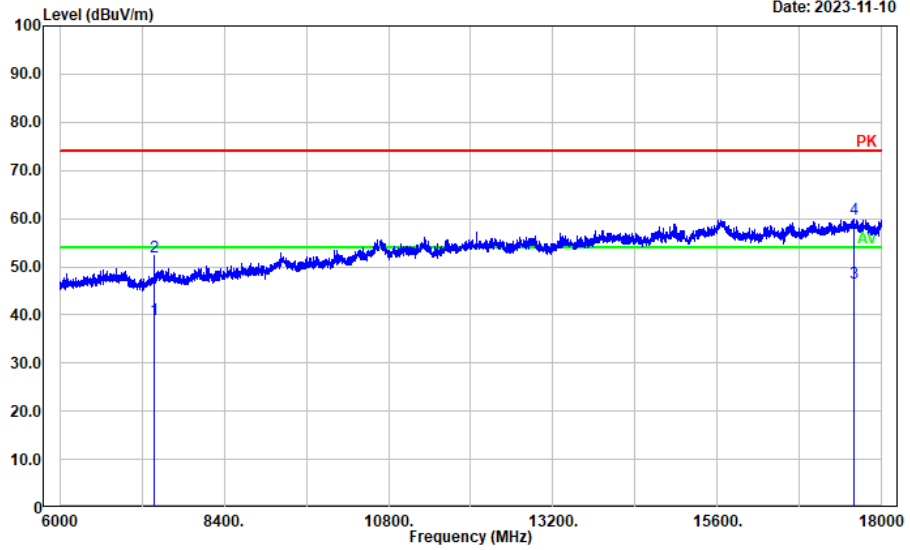
Worst Test plots(802.11b mode Chain 1 High channel)



Horizontal

Project No.: CR230957522-RF
 Tester: Tao Zhu
 Polarization: horizontal
 Note:

Date: 2023-11-10



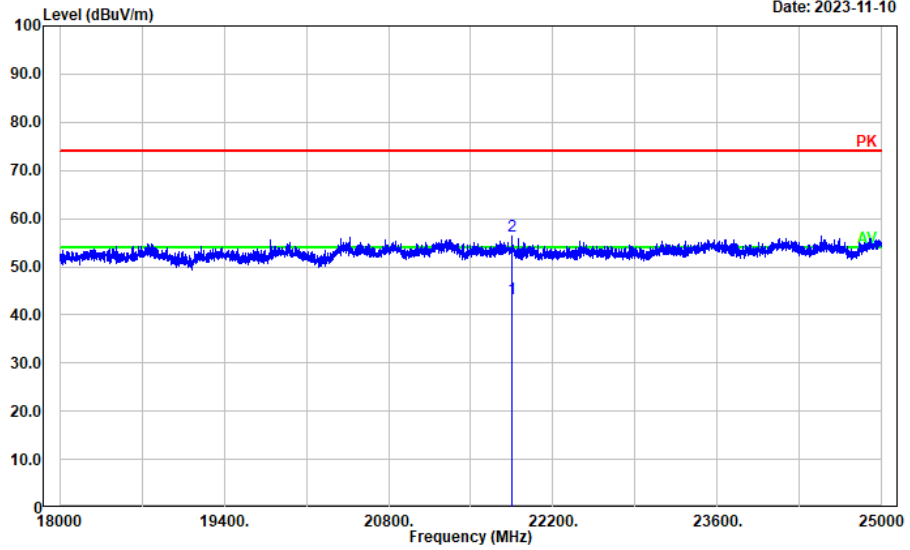
6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7386.000	23.45	15.63	39.08	54.00	14.92	Average
2	7386.000	36.47	15.63	52.10	74.00	21.90	Peak
3	17601.520	15.95	30.62	46.57	54.00	7.43	Average
4	17601.520	29.24	30.62	59.86	74.00	14.14	Peak

Horizontal

Project No.: CR230957522-RF
 Tester: Tao Zhu
 Polarization: Horizontal
 Note:

Date: 2023-11-10



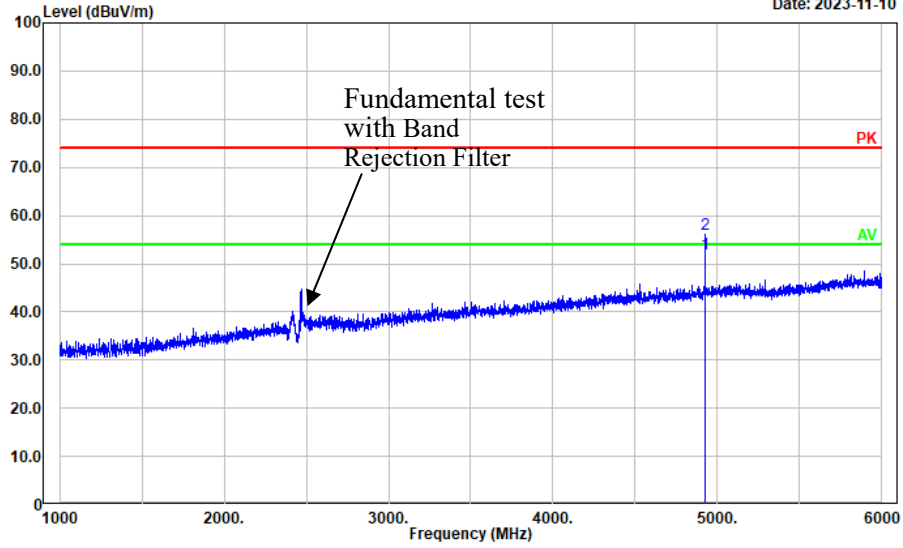
18-25GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	21854.970	38.47	4.82	43.29	54.00	10.71	Average
2	21854.970	51.55	4.82	56.37	74.00	17.63	Peak

Vertical

Project No.: CR230957522-RF
 Tester: Tao Zhu
 Polarization: vertical
 Note:

Date: 2023-11-10



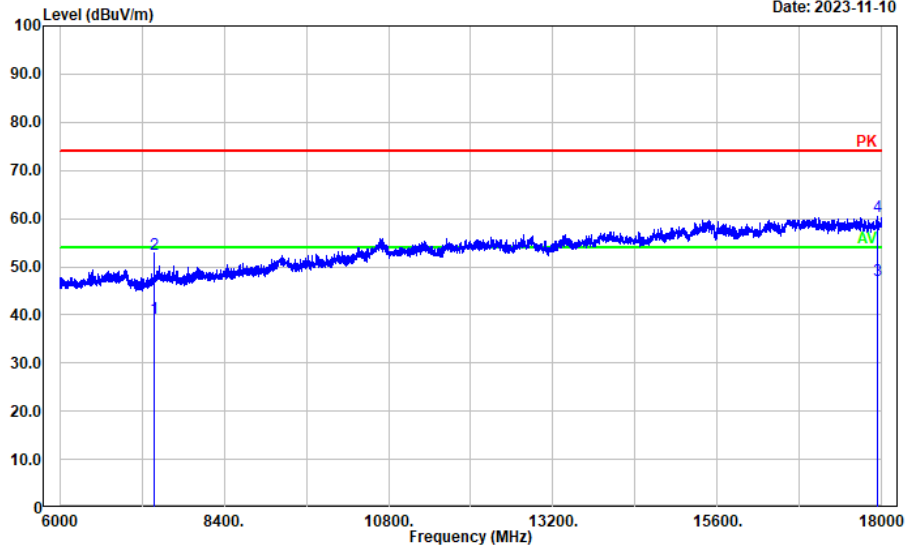
1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.000	40.49	11.67	52.16	54.00	1.84	Average
2	4924.000	44.32	11.67	55.99	74.00	18.01	Peak

Vertical

Project No.: CR230957522-RF
 Tester: Tao Zhu
 Polarization: vertical
 Note:

Date: 2023-11-10



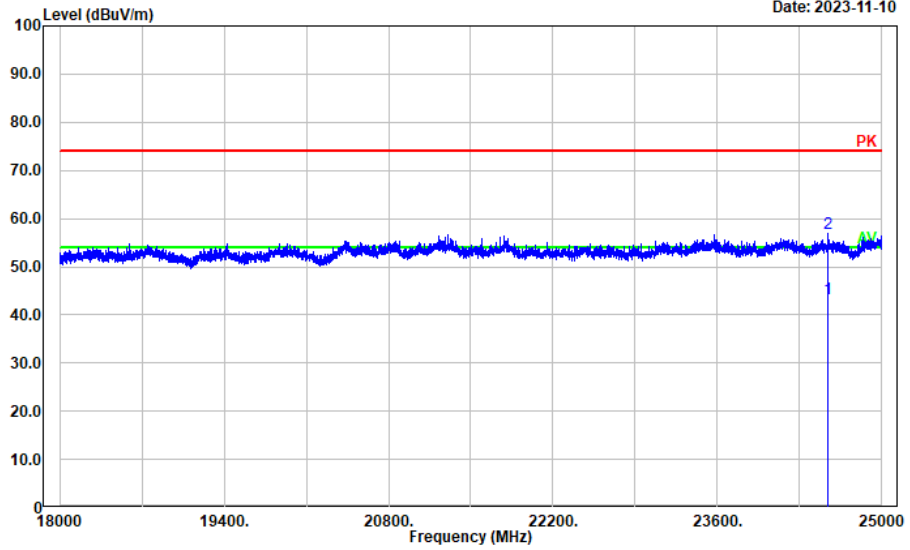
6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7386.000	23.66	15.63	39.29	54.00	14.71	Average
2	7386.000	36.82	15.63	52.45	74.00	21.55	Peak
3	17935.190	14.91	32.29	47.20	54.00	6.80	Average
4	17935.190	28.09	32.29	60.38	74.00	13.62	Peak

Vertical

Project No.: CR230957522-RF
 Tester: Tao Zhu
 Polarization: Vertical
 Note:

Date: 2023-11-10



18-25GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	24537.910	37.91	5.37	43.28	54.00	10.72	Average
2	24537.910	51.43	5.37	56.80	74.00	17.20	Peak

4.3 Minimum 6 dB Bandwidth:

Serial Number:	2BVX-1	Test Date:	2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.1
----------------------	------	------------------------------	----	------------------------	-------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	9.07	0.5
	2437	8.58	0.5
	2462	8.63	0.5
802.11g	2412	16.16	0.5
	2437	16.42	0.5
	2462	16.32	0.5
802.11n ht20	2412	17.71	0.5
	2437	17.59	0.5
	2462	17.49	0.5
802.11n ht40	2422	35.52	0.5
	2437	35.52	0.5
	2452	35.68	0.5
802.11ax he20	2412	19.20	0.5
	2437	19.20	0.5
	2462	19.20	0.5
802.11ax he40	2422	38.33	0.5
	2437	38.32	0.5
	2452	38.23	0.5

Note: Test only was performed at Chain 0.

Minimum 6dB Emission Bandwidth

802.11b
Lowest Channel



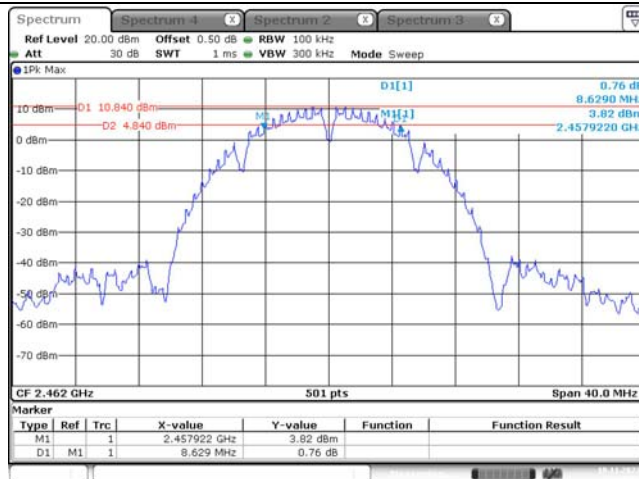
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:15:41

802.11b
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:18:23

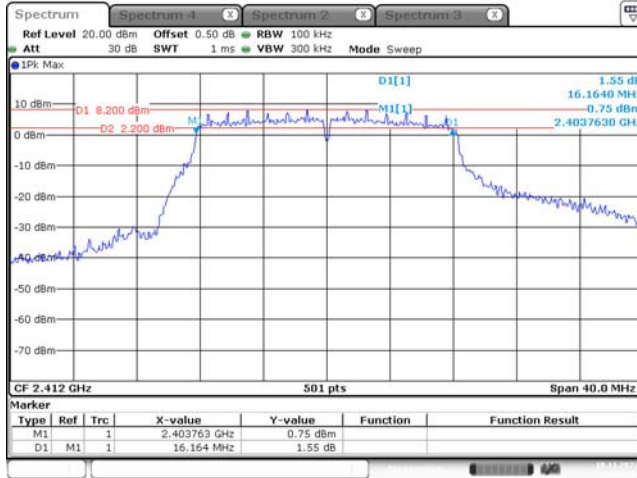
802.11b
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:20:03

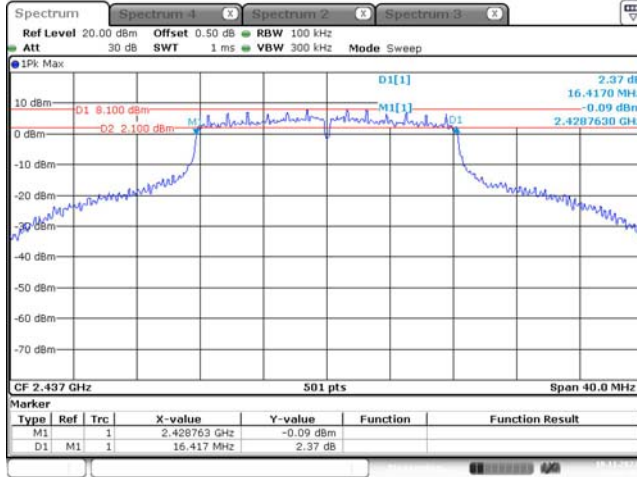
Minimum 6dB Emission Bandwidth

802.11g
Lowest Channel



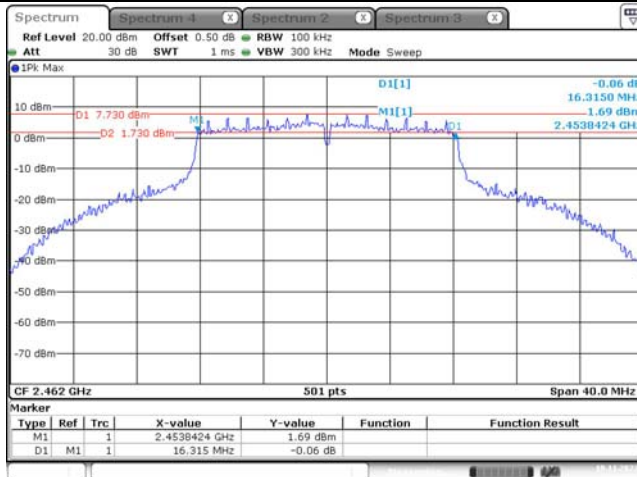
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:22:47

802.11g
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:27:08

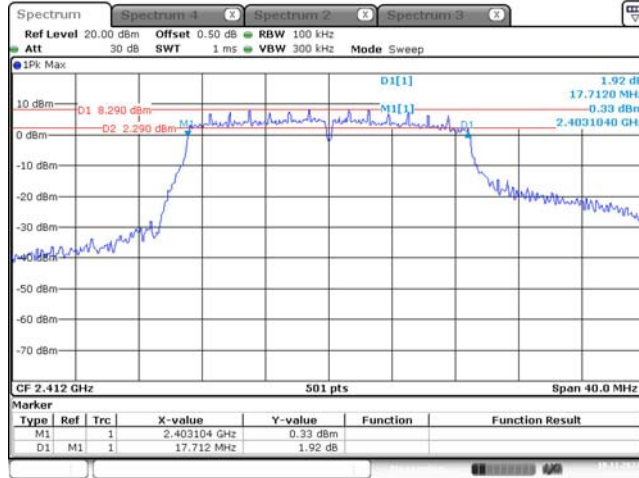
802.11g
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:28:58

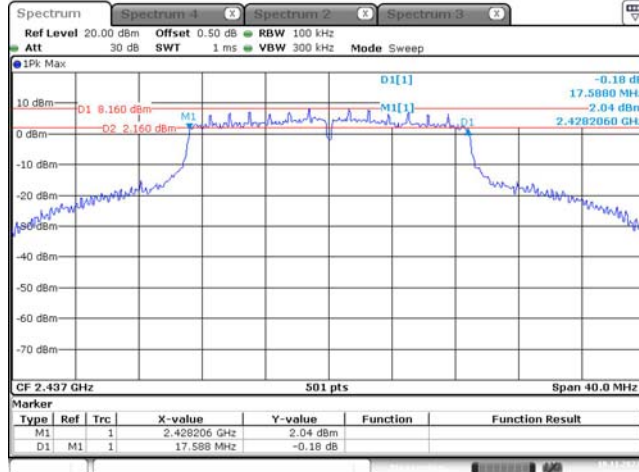
Minimum 6dB Emission Bandwidth

802.11n ht20
Lowest Channel



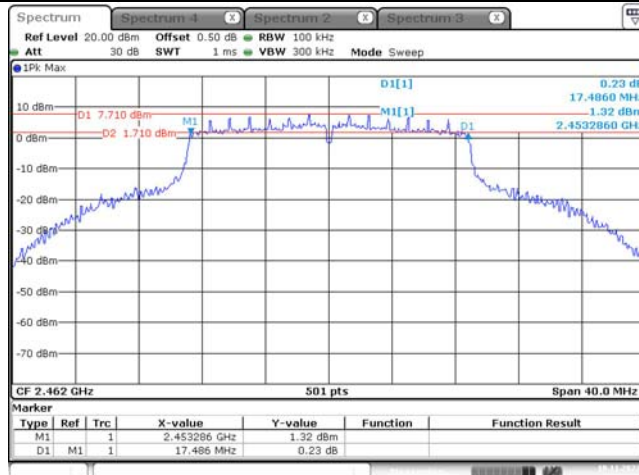
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:32:57

802.11n ht20
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:36:10

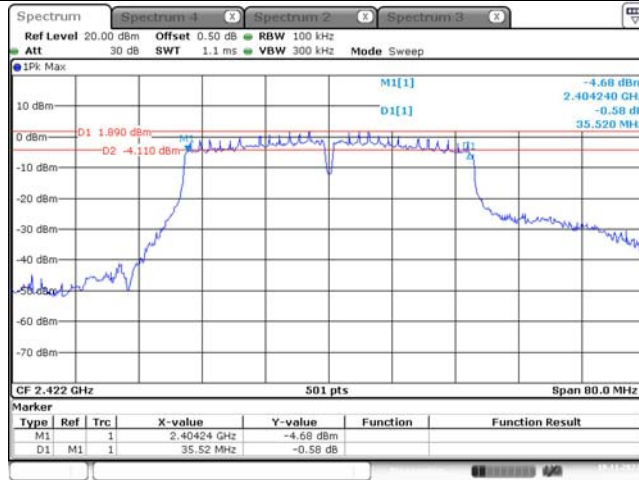
802.11n ht20
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:38:24

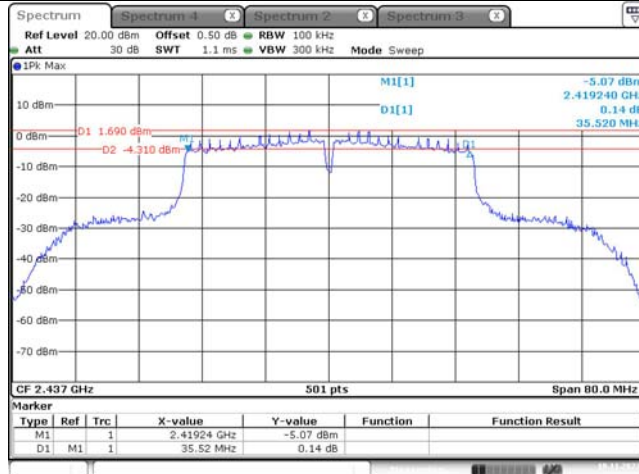
Minimum 6dB Emission Bandwidth

802.11n ht40
Lowest Channel



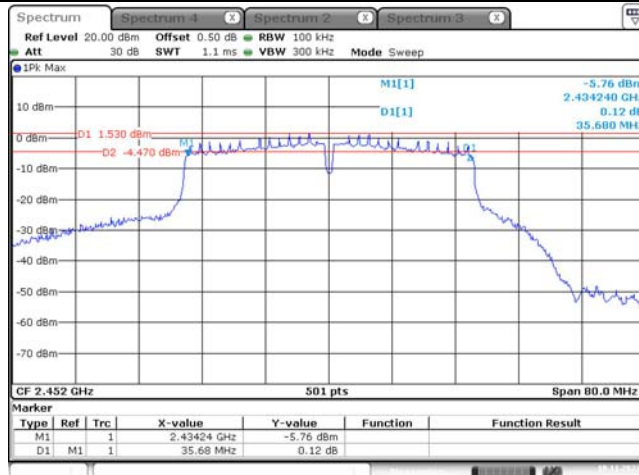
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:54:45

802.11n ht40
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:51:51

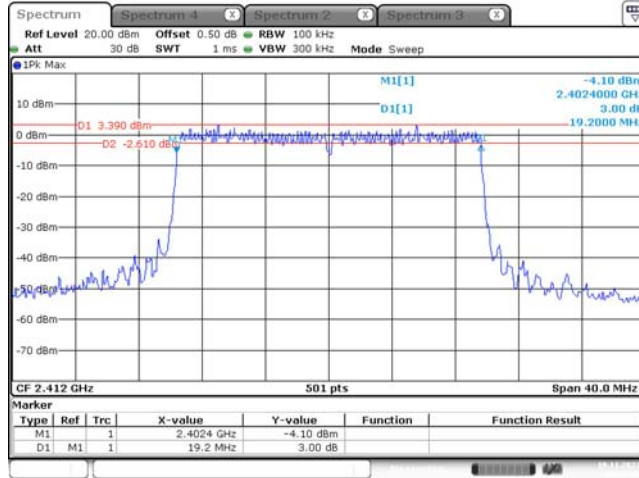
802.11n ht40
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 14:53:45

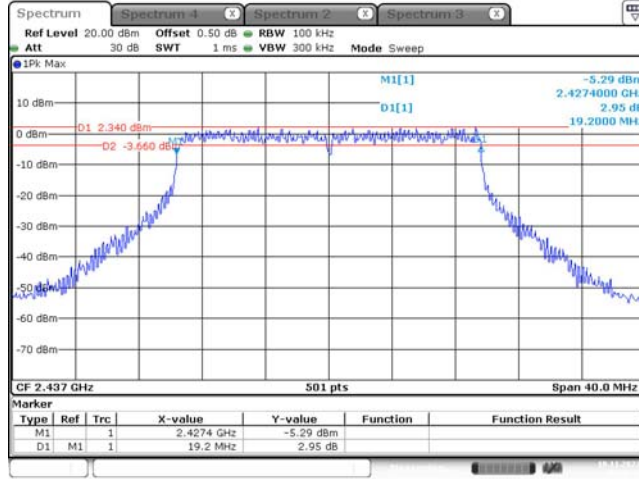
Minimum 6dB Emission Bandwidth

802.11ax he20
Lowest Channel



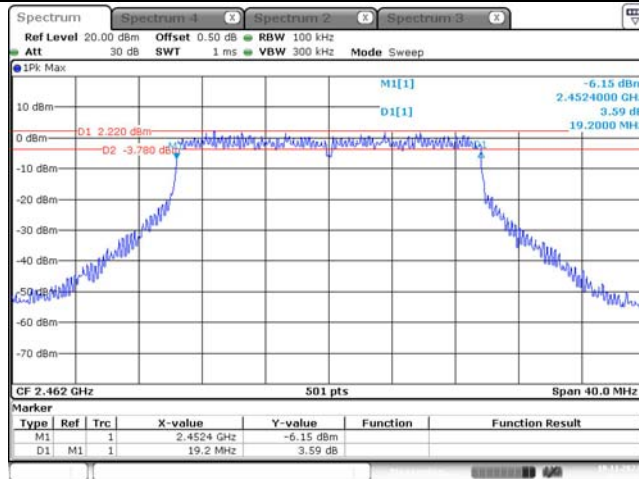
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 15:27:09

802.11ax he20
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 15:28:11

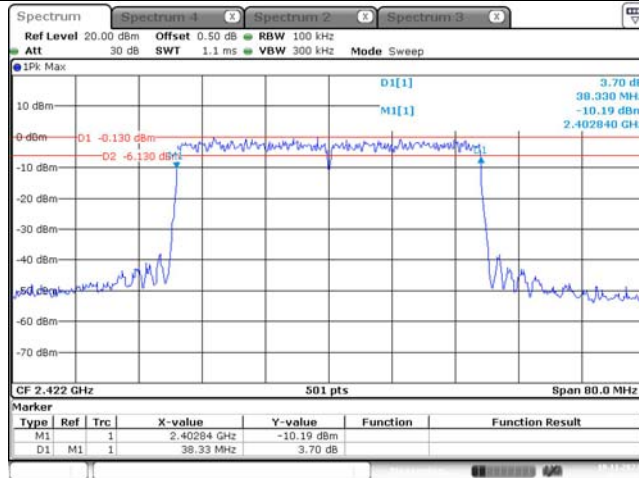
802.11ax he20
Highest Channel



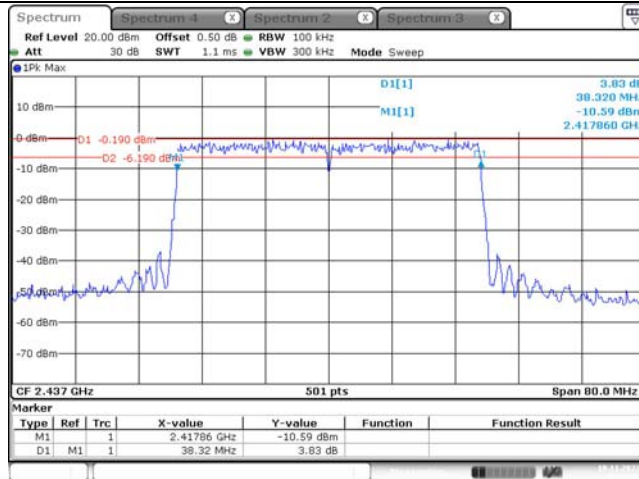
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 15:29:10

Minimum 6dB Emission Bandwidth

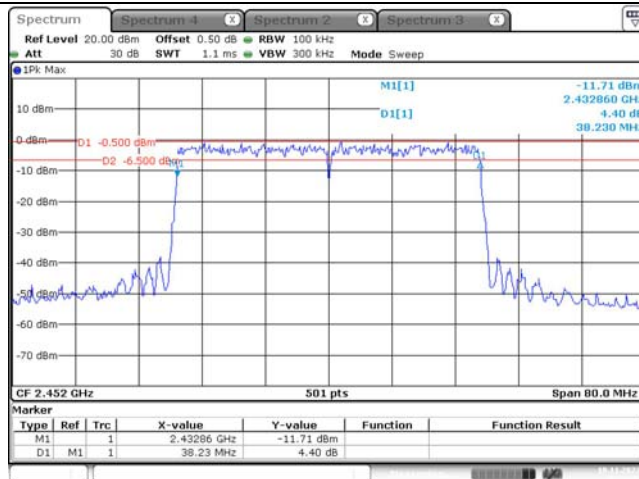
802.11ax he40
Lowest Channel



802.11ax he40
Middle Channel



802.11ax he40
Highest Channel



4.4 99% Occupied Bandwidth:

Serial Number:	2BVX-1	Test Date:	2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.1
----------------------	------	------------------------------	----	------------------------	-------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

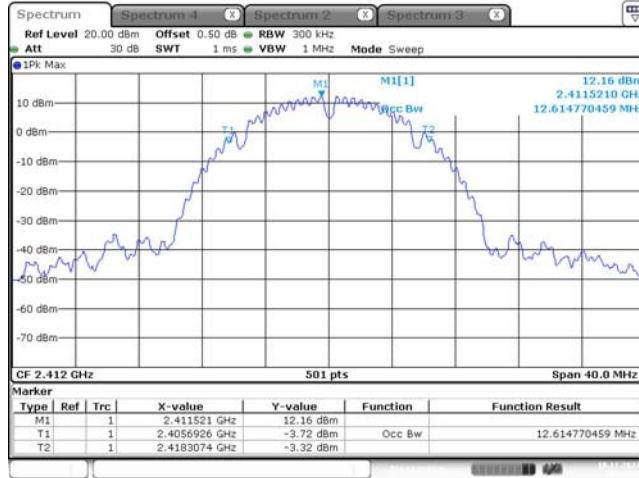
Test Data:

Test Modes	Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b	Lowest	2412	12.61
	Middle	2437	12.69
	Highest	2462	12.77
802.11g	Lowest	2412	17.17
	Middle	2437	17.41
	Highest	2462	17.41
802.11n ht20	Lowest	2412	18.20
	Middle	2437	18.44
	Highest	2462	18.28
802.11n ht40	Lowest	2422	37.21
	Middle	2437	37.52
	Highest	2452	37.52
802.11ax hew20	Lowest	2412	19.08
	Middle	2437	19.08
	Highest	2462	19.24
802.11ax hew40	Lowest	2422	38.16
	Middle	2437	38.16
	Highest	2452	38.16

Note: Test only was performed at Chain 0.

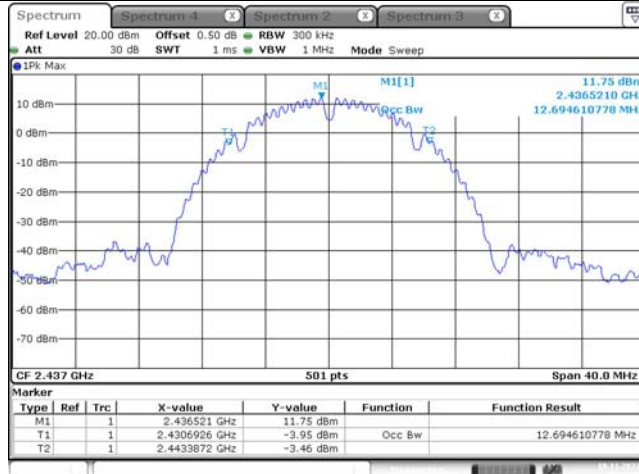
99% Occupied Bandwidth

802.11b
Lowest Channel



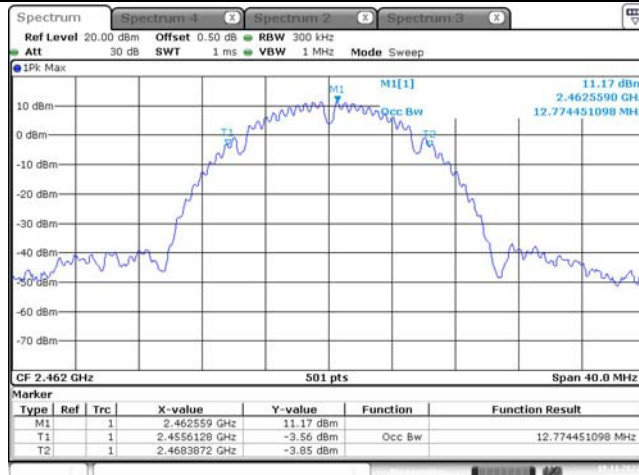
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:17:21

802.11b
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:18:46

802.11b
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:19:45

99% Occupied Bandwidth

802.11g
Lowest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:21:48

802.11g
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:24:53

802.11g
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:26:24

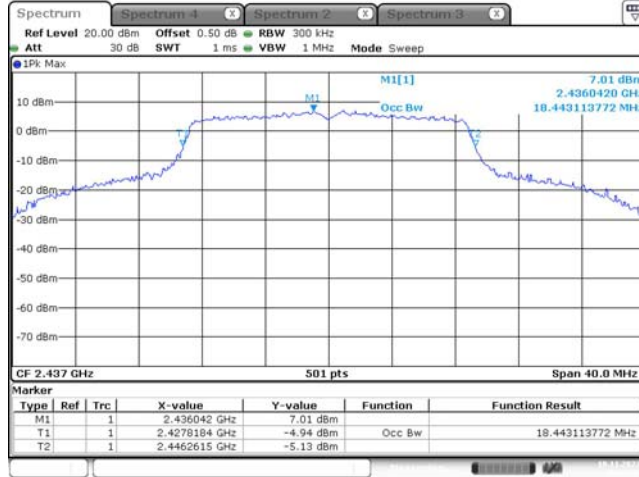
99% Occupied Bandwidth

802.11n ht20
Lowest Channel



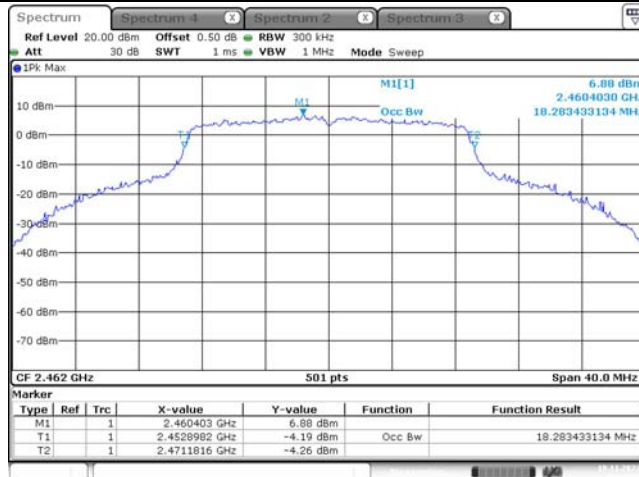
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:29:32

802.11n ht20
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:31:27

802.11n ht20
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:32:55

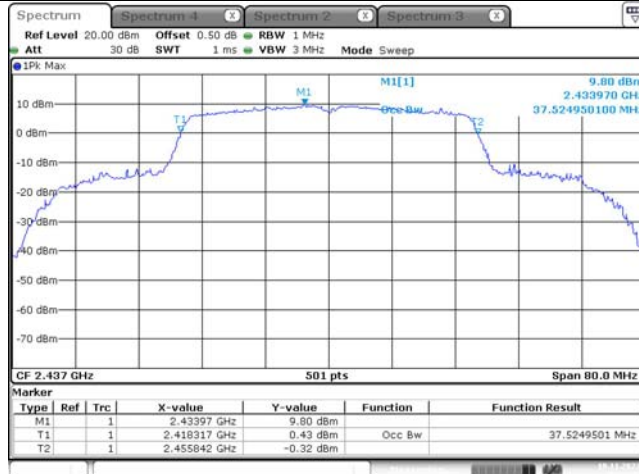
99% Occupied Bandwidth

802.11n ht40
Lowest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:34:50

802.11n ht40
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:36:36

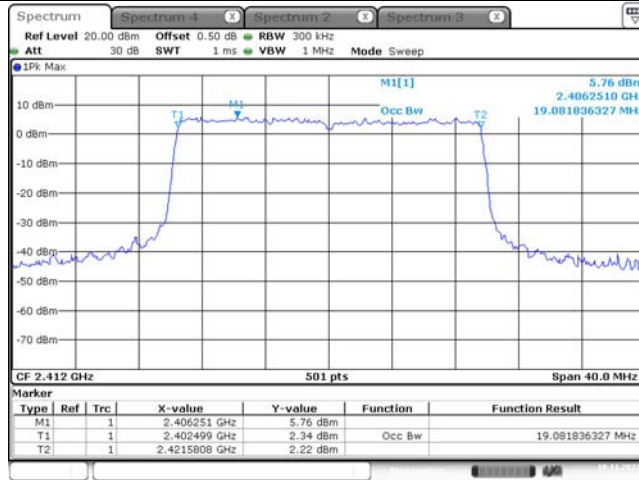
802.11n ht40
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:38:01

99% Occupied Bandwidth

802.11ax he20
Lowest Channel



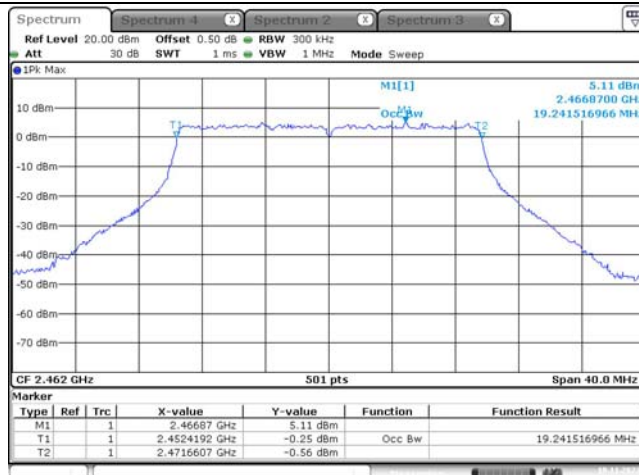
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:04:38

802.11ax he20
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:07:22

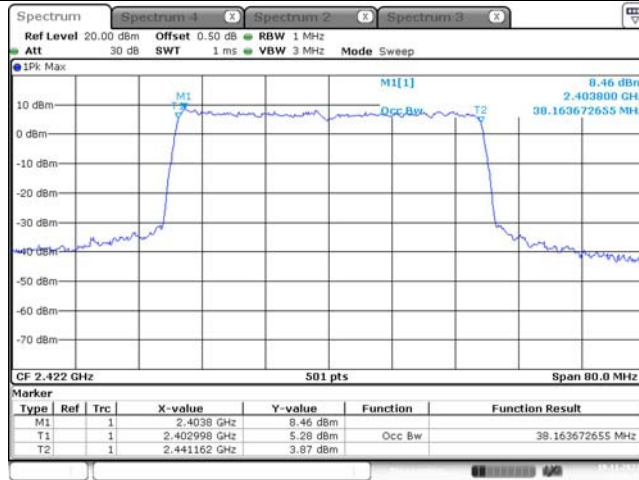
802.11ax he20
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:08:35

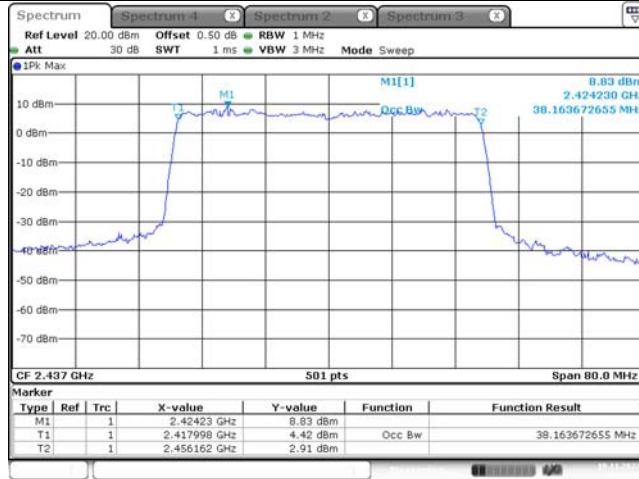
99% Occupied Bandwidth

802.11ax he40
Lowest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:10:49

802.11ax he40
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:13:07

802.11ax he40
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:14:09

4.5 Maximum Conducted Output Power:

Serial Number:	2BVX-1	Test Date:	2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.1
----------------------	------	------------------------------	----	------------------------	-------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Power Meter	ML2495A	1106009	2023/08/04	2024/08/03
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/08/04	2024/08/03
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
802.11b	2412	22.82	24.53	/	30
	2437	22.77	24.13	/	30
	2462	22.53	24.03	/	30
802.11g	2412	22.54	23.16	/	30
	2437	21.14	22.14	/	30
	2462	21.19	22.43	/	30
802.11n ht20	2412	22.44	22.25	25.36	28.16
	2437	21.26	21.32	24.30	28.16
	2462	21.29	21.81	24.57	28.16
802.11n ht40	2422	21.67	21.64	24.67	28.16
	2437	20.88	21.28	24.09	28.16
	2452	20.81	21.46	24.16	28.16
802.11ax he20	2412	24.98	24.62	27.81	28.16
	2437	24.93	24.85	27.90	28.16
	2462	24.89	24.44	27.68	28.16
802.11ax he40	2422	24.44	24.12	27.29	28.16
	2437	24.52	23.97	27.26	28.16
	2452	24.56	24.23	27.41	28.16
Maximum EIRP	35.74	dBm	EIRP Limit for RSS-247	36	dBm

Note: The limit for MIMO mode was calculated with the gain of Beamforming mode 7.84dBi.

4.6 Maximum Power Spectral Density:

Serial Number:	2BVX-1	Test Date:	2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.1
----------------------	------	------------------------------	----	------------------------	-------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

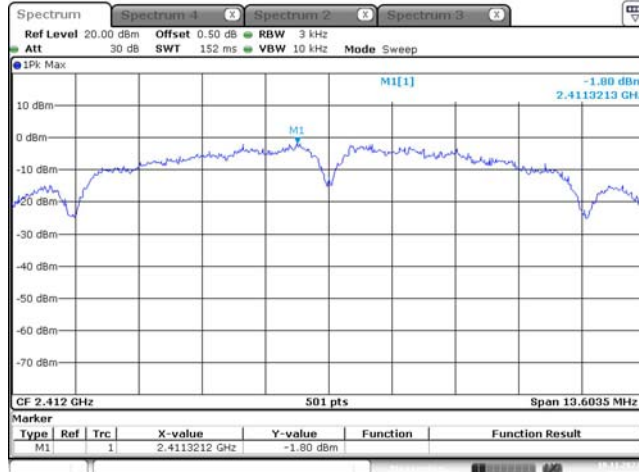
Test Modes	Test Frequency (MHz)	Reading(dBm/3kHz)		Maximum Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
		Chain 0	Chain 1		
802.11b	2412	-1.80	0.46	0.46	8.00
	2437	-1.77	0.94	0.94	8.00
	2462	-2.16	-0.07	-0.07	8.00
802.11g	2412	-9.37	-7.80	-7.80	8.00
	2437	-9.20	-7.04	-7.04	8.00
	2462	-9.76	-6.45	-6.45	8.00
802.11n ht20	2412	-9.65	-9.09	-6.35	6.16
	2437	-9.80	-9.15	-6.45	6.16
	2462	-9.49	-8.74	-6.09	6.16
802.11n ht40	2422	-11.67	-11.93	-8.79	6.16
	2437	-13.26	-12.08	-9.62	6.16
	2452	-13.27	-11.44	-9.25	6.16
802.11ax he20	2412	-11.99	-11.14	-8.53	6.16
	2437	-12.74	-11.99	-9.34	6.16
	2462	-13.03	-11.49	-9.18	6.16
802.11ax he40	2422	-15.58	-14.75	-12.13	6.16
	2437	-16.44	-15.72	-13.05	6.16
	2452	-16.74	-15.09	-12.83	6.16

Note: the maximum Power Spectral Density was the maximum chain result for SISO mode, Total result for MIMO mode.

Chain 0

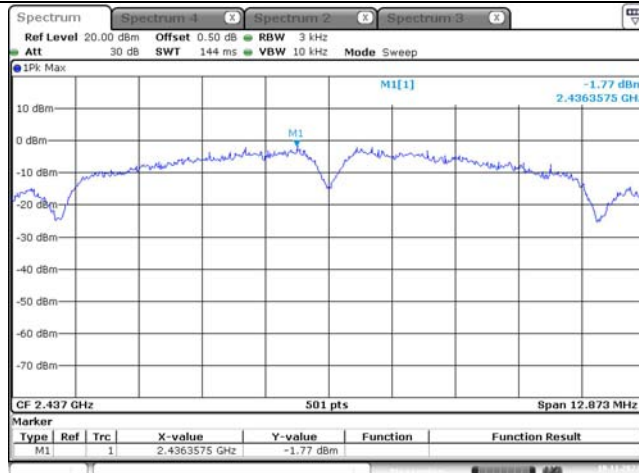
Maximum power spectral density

802.11b
Lowest Channel



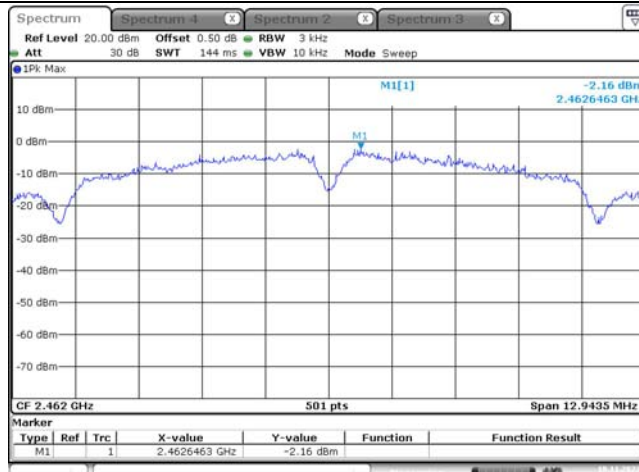
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:17:52

802.11b
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:19:17

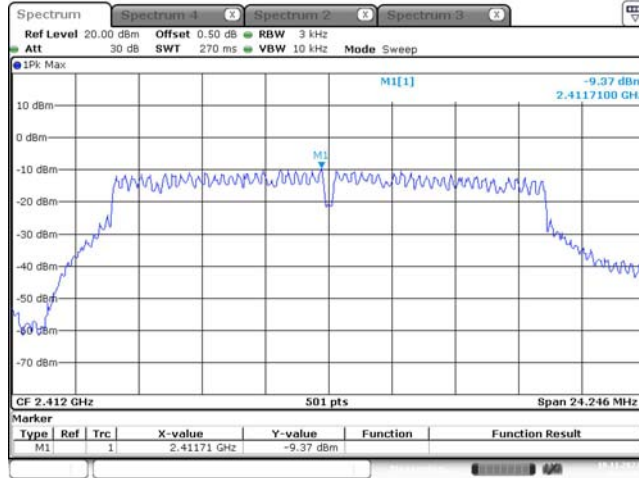
802.11b
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:20:13

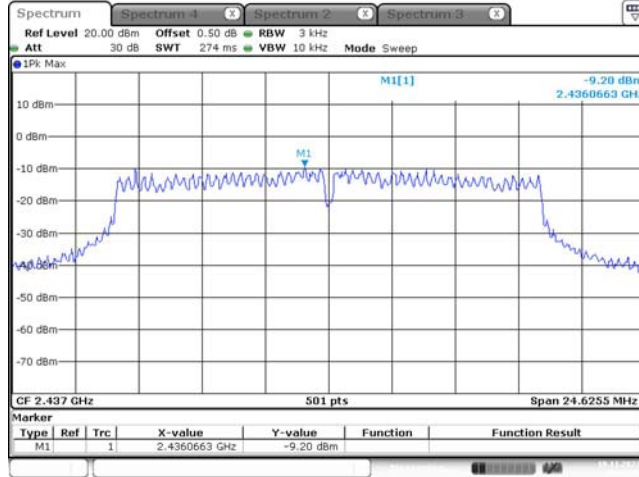
Maximum power spectral density

802.11g
Lowest Channel



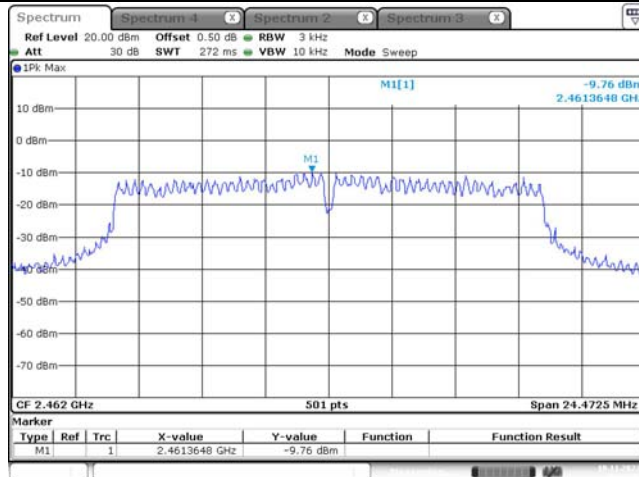
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:22:46

802.11g
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:25:31

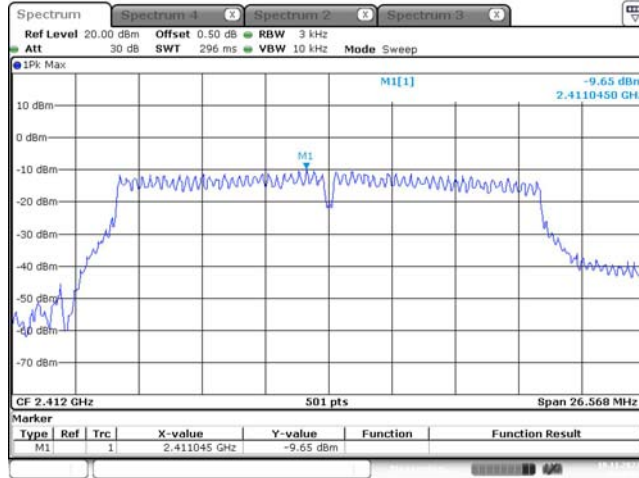
802.11g
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:26:58

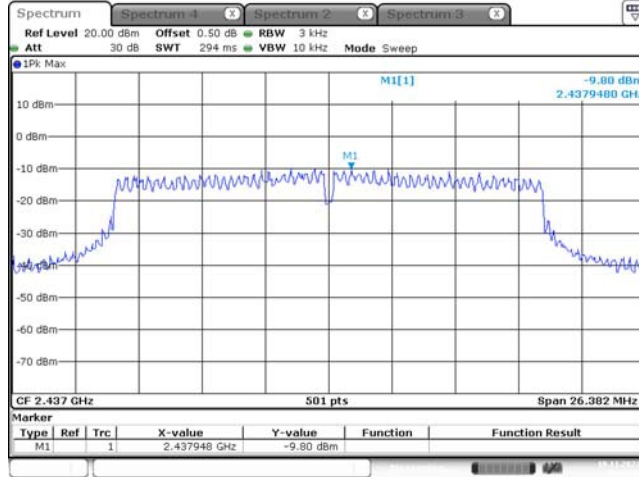
Maximum power spectral density

802.11n ht20
Lowest Channel



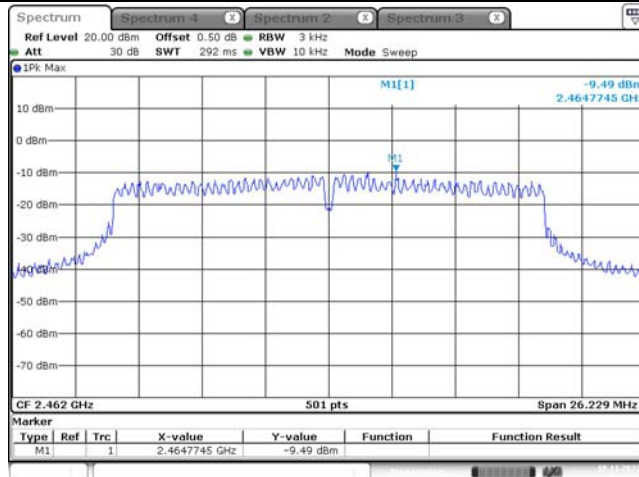
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:30:03

802.11n ht20
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:32:07

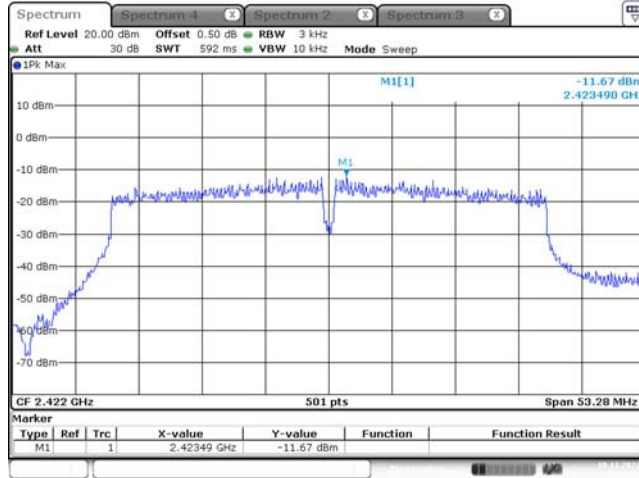
802.11n ht20
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:33:32

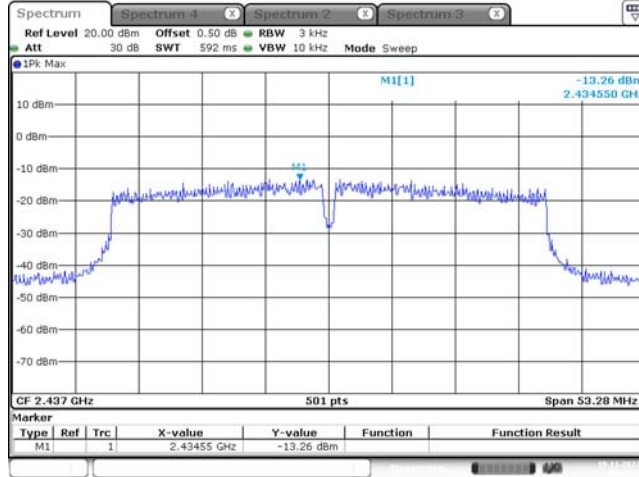
Maximum power spectral density

802.11n ht40
Lowest Channel



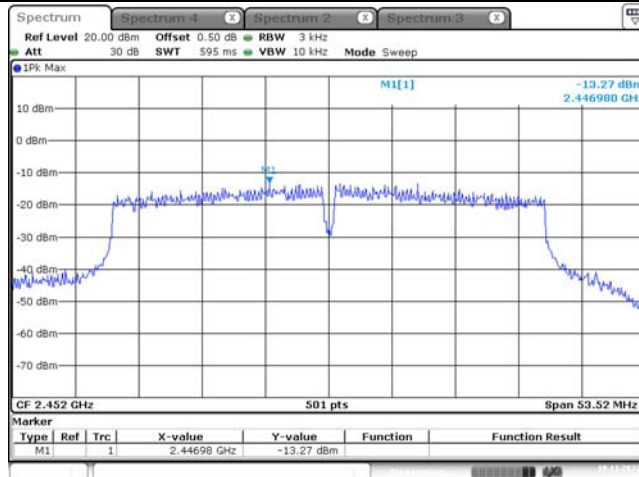
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:35:20

802.11n ht40
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:37:10

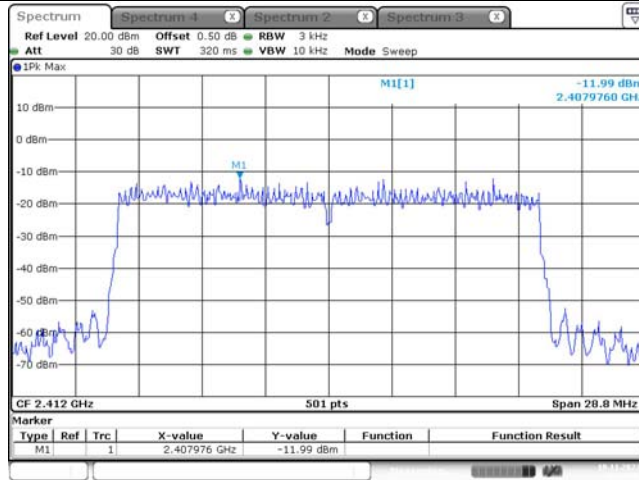
802.11n ht40
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:38:37

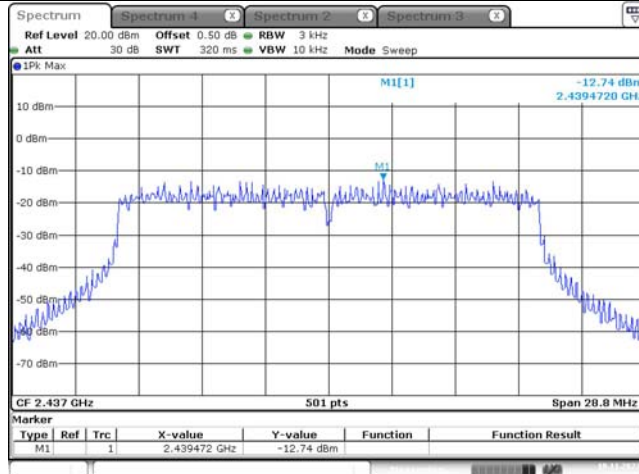
Maximum power spectral density

802.11ax he20
Lowest Channel



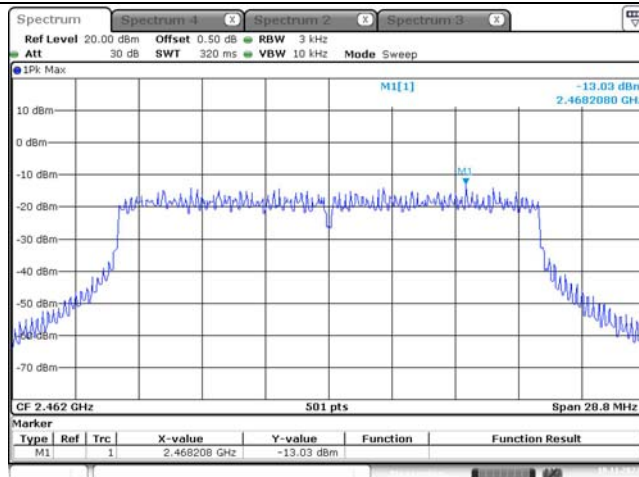
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:05:08

802.11ax he20
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:07:51

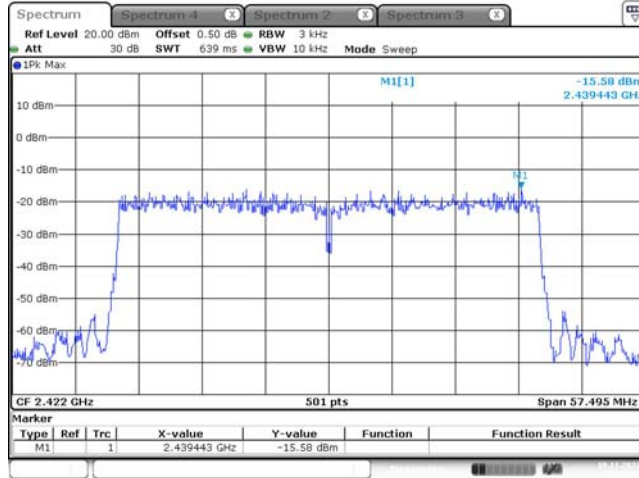
802.11ax he20
Highest Channel



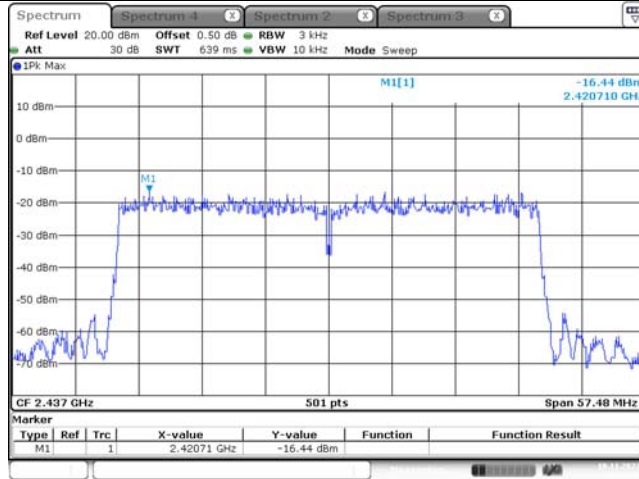
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:09:02

Maximum power spectral density

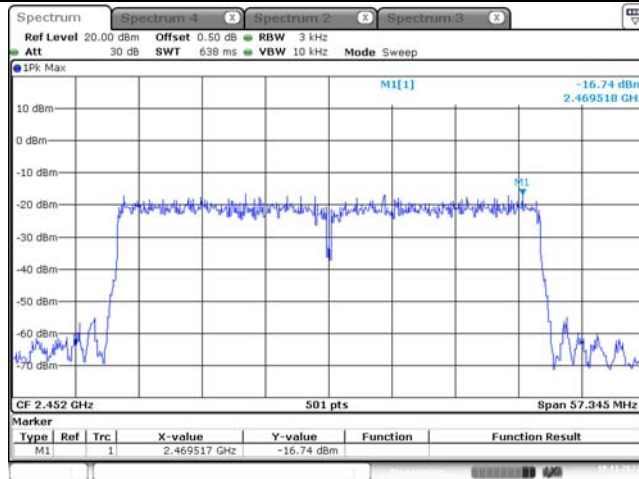
802.11ax he40
Lowest Channel



802.11ax he40
Middle Channel



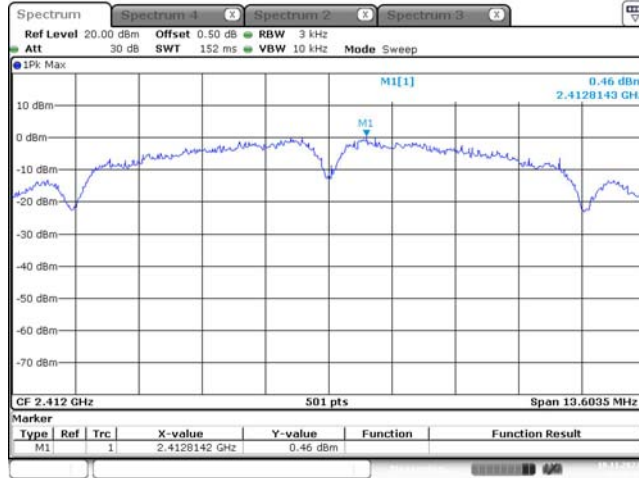
802.11ax he40
Highest Channel



Chain 1

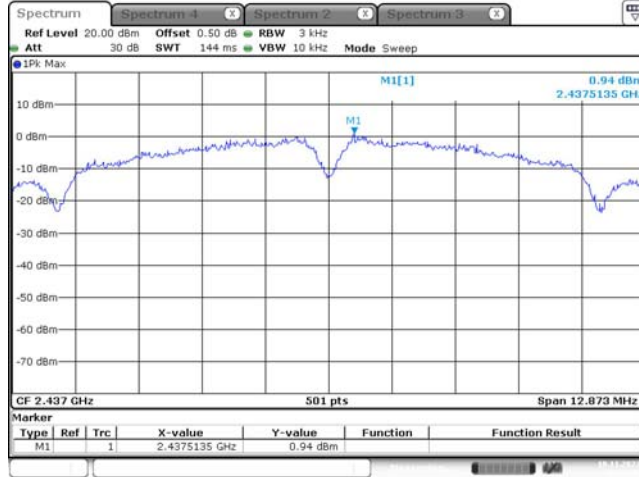
Maximum power spectral density

802.11b
Lowest Channel



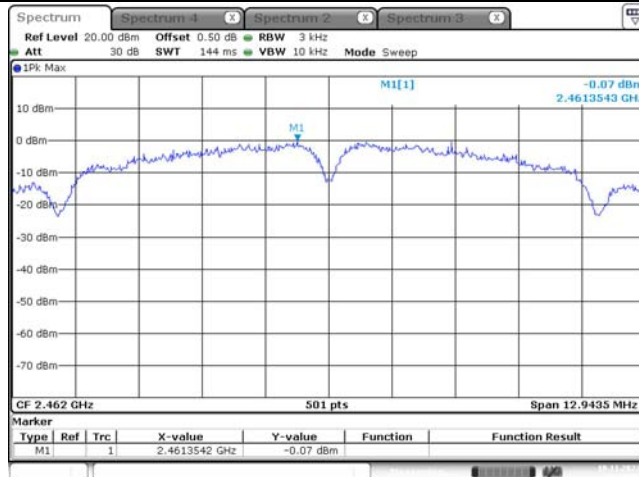
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:30:11

802.11b
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:32:48

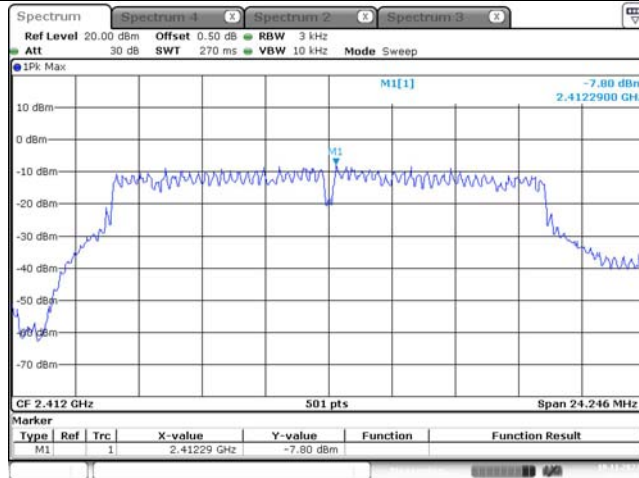
802.11b
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:38:03

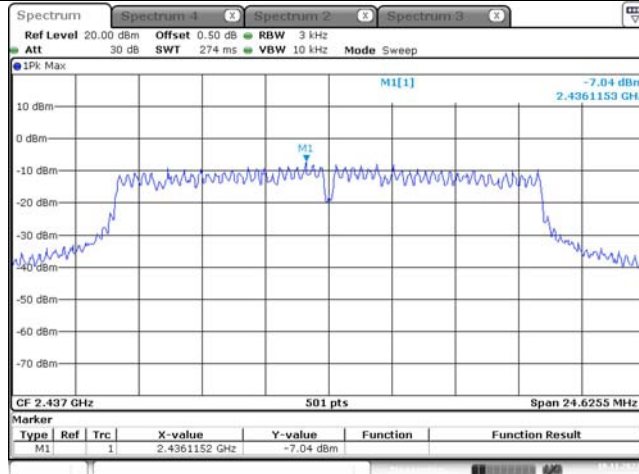
Maximum power spectral density

802.11g
Lowest Channel



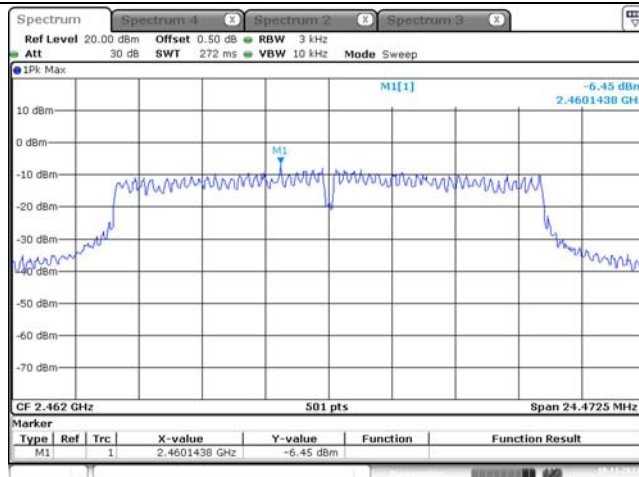
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:48:50

802.11g
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:59:51

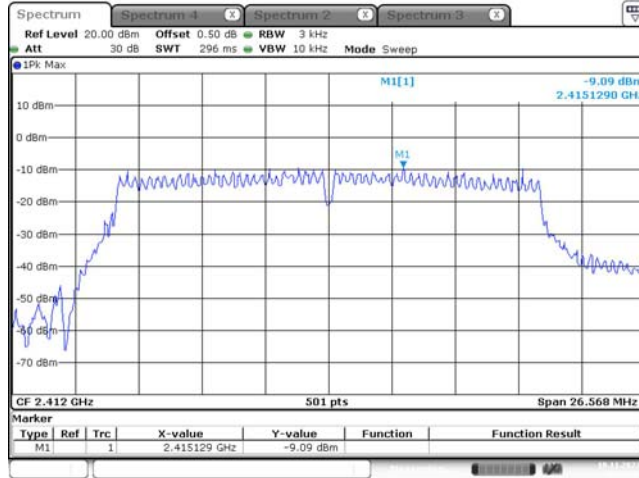
802.11g
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:51:29

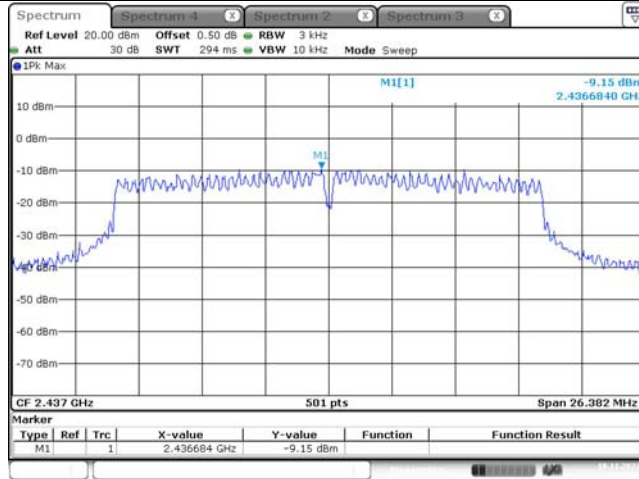
Maximum power spectral density

802.11n ht20
Lowest Channel



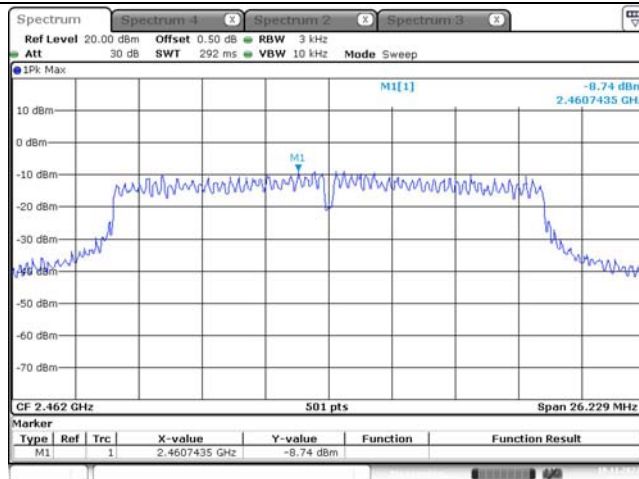
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:54:13

802.11n ht20
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:04:19

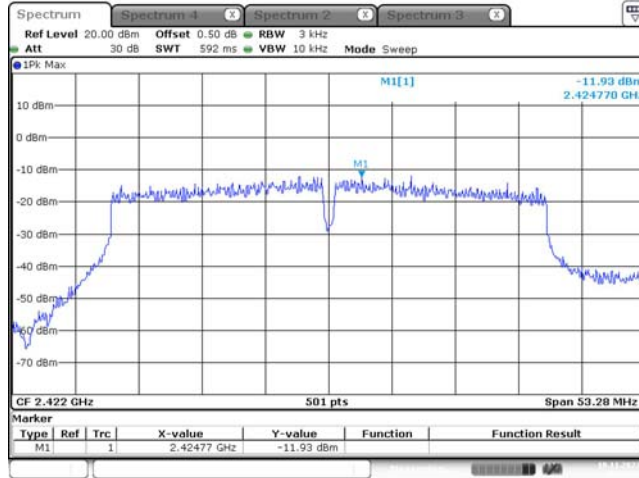
802.11n ht20
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:05:13

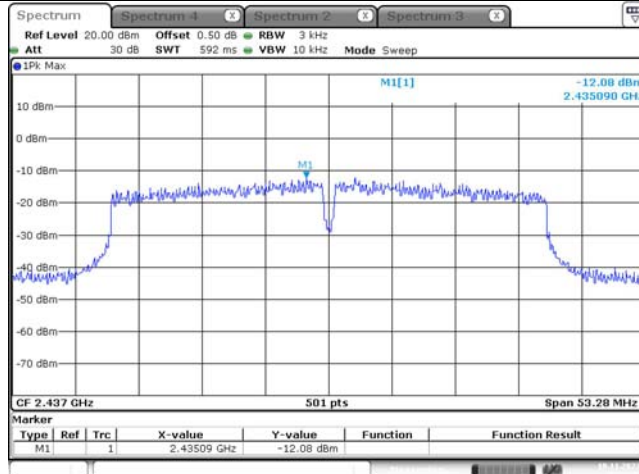
Maximum power spectral density

802.11n ht40
Lowest Channel



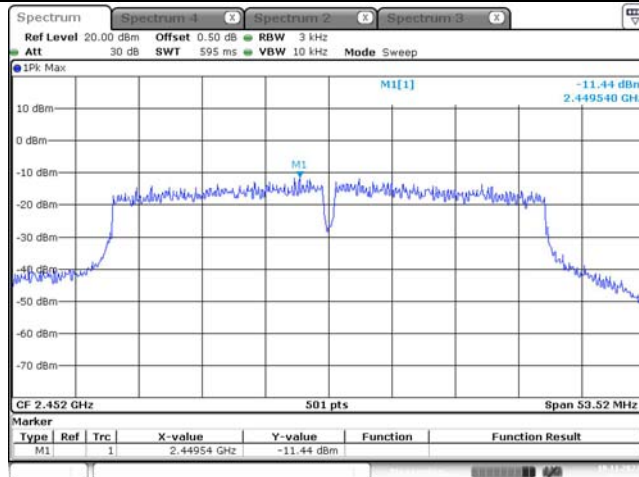
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:09:22

802.11n ht40
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:14:43

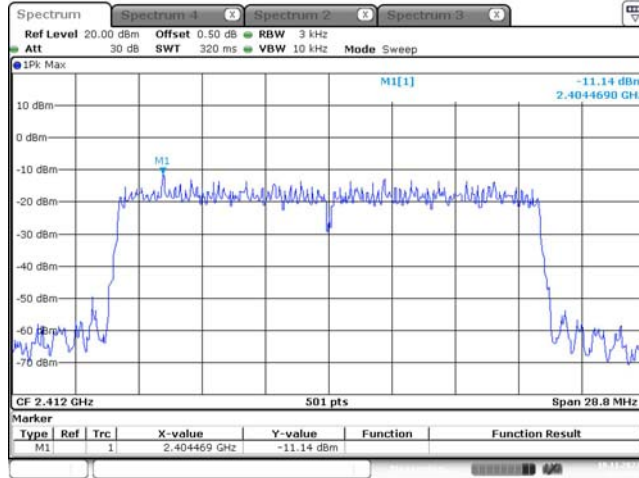
802.11n ht40
Highest Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:16:53

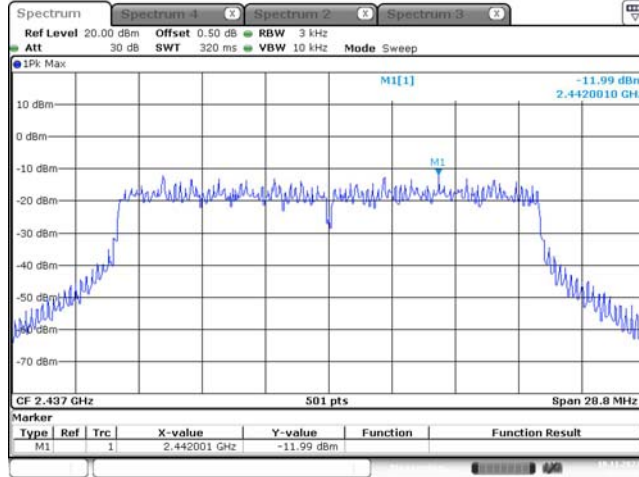
Maximum power spectral density

802.11ax he20
Lowest Channel



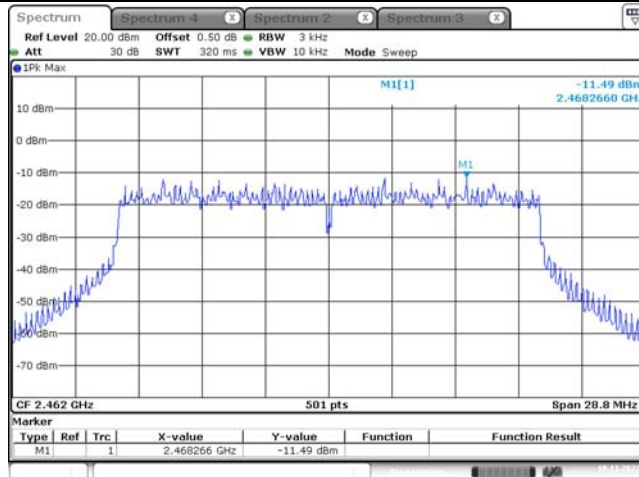
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:19:59

802.11ax he20
Middle Channel



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:22:27

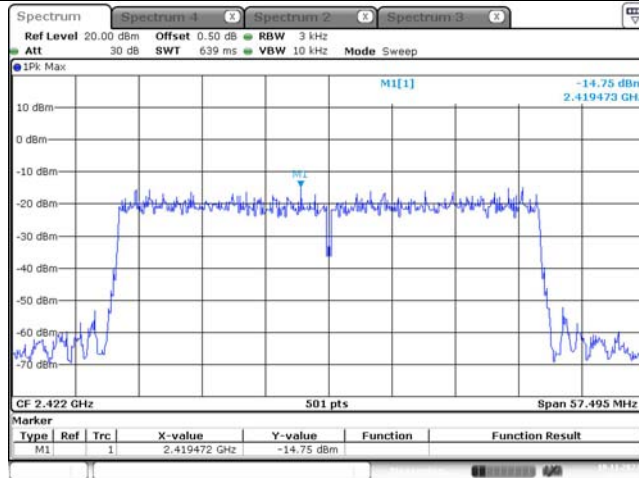
802.11ax he20
Highest Channel



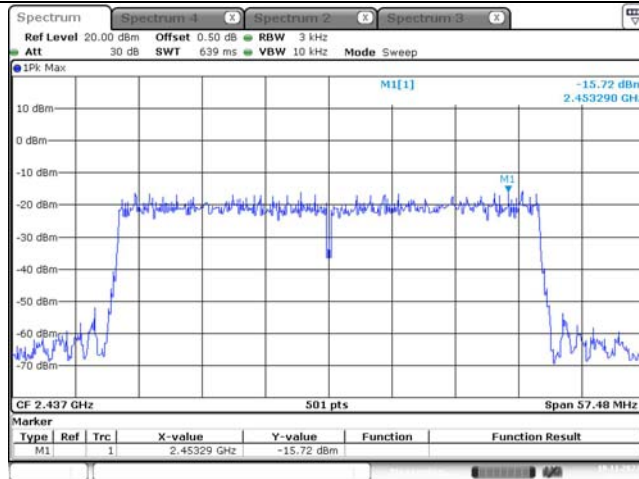
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:24:20

Maximum power spectral density

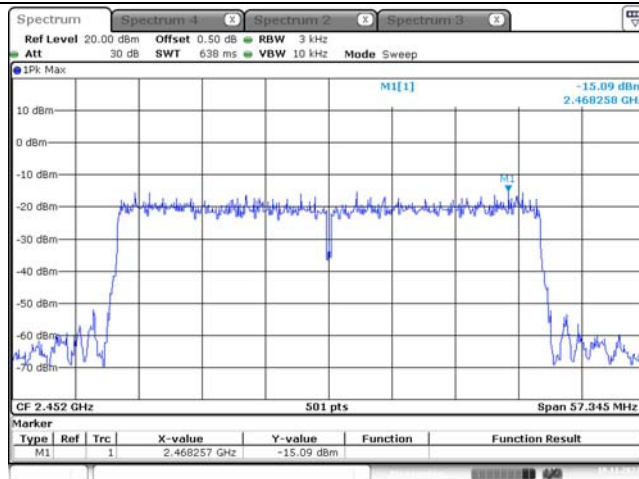
802.11ax he40
Lowest Channel



802.11ax he40
Middle Channel



802.11ax he40
Highest Channel



4.7 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	2BVX-1	Test Date:	2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.1
----------------------	------	------------------------------	----	------------------------	-------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

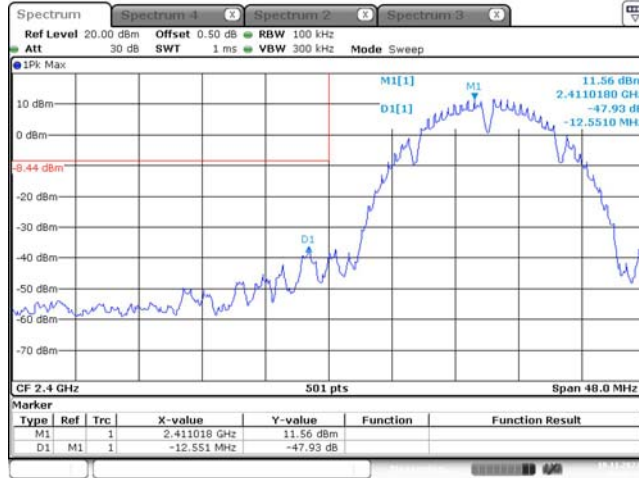
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Chain 0

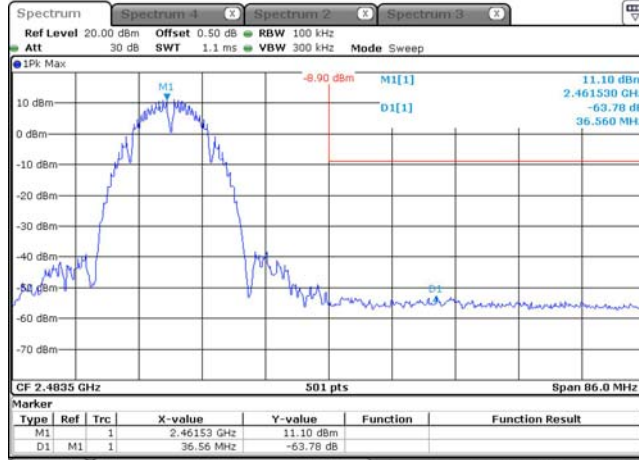
100 kHz Bandwidth of Frequency Band Edge

802.11b
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:18:11

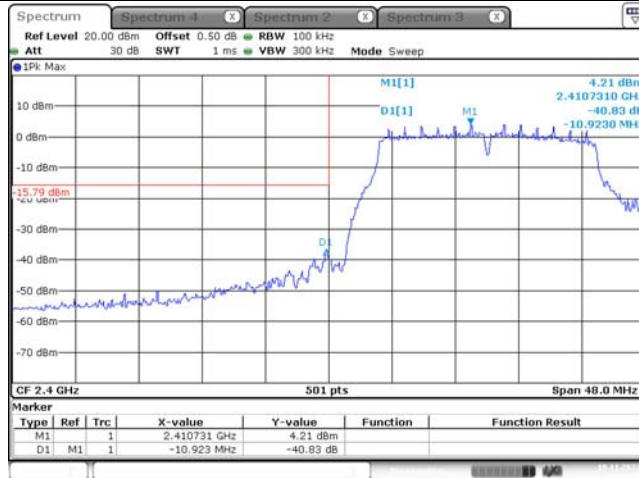
802.11b
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:20:41

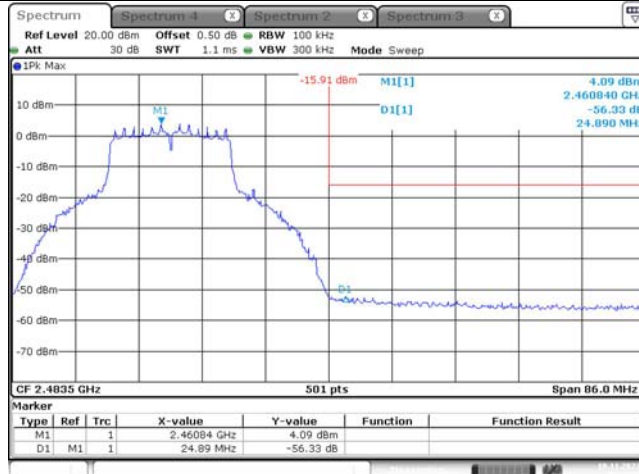
100 kHz Bandwidth of Frequency Band Edge

802.11g
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:23:50

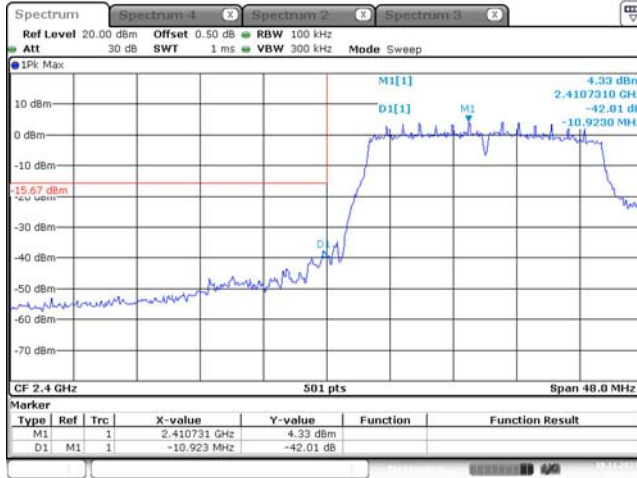
802.11g
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:27:33

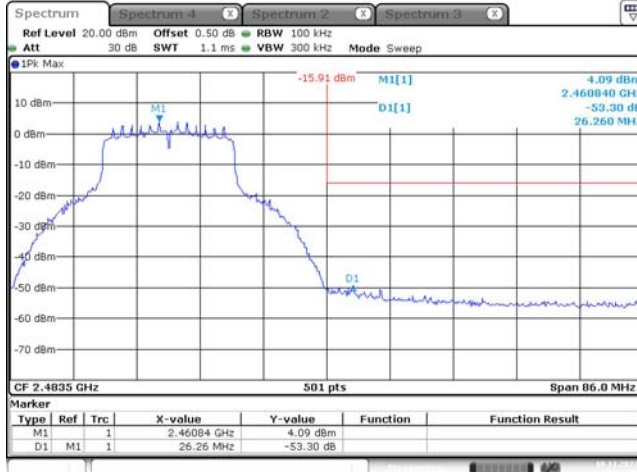
100 kHz Bandwidth of Frequency Band Edge

802.11n ht20
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:30:46

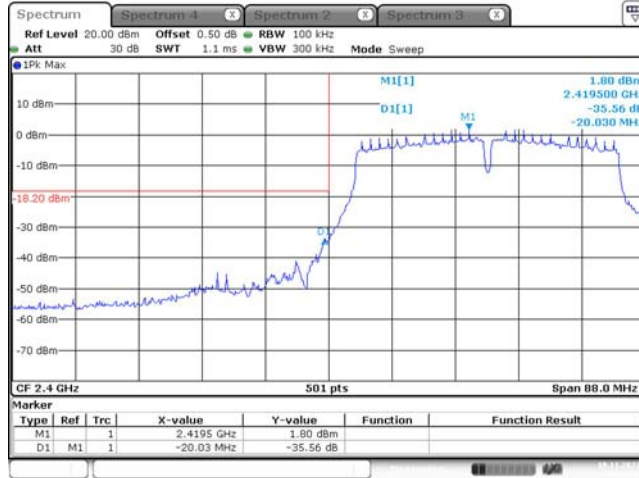
802.11n ht20
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:33:58

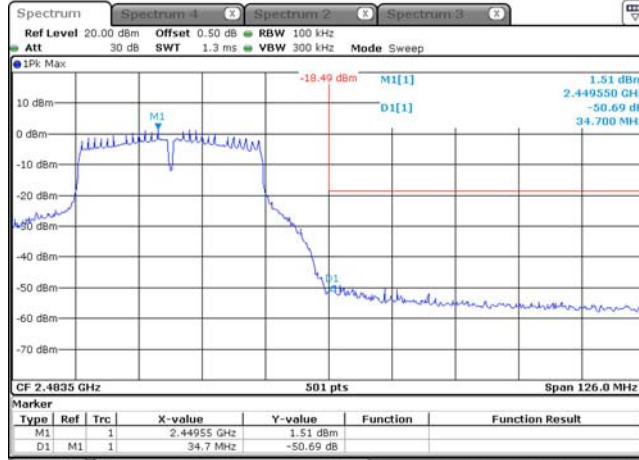
100 kHz Bandwidth of Frequency Band Edge

802.11n ht40
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:35:57

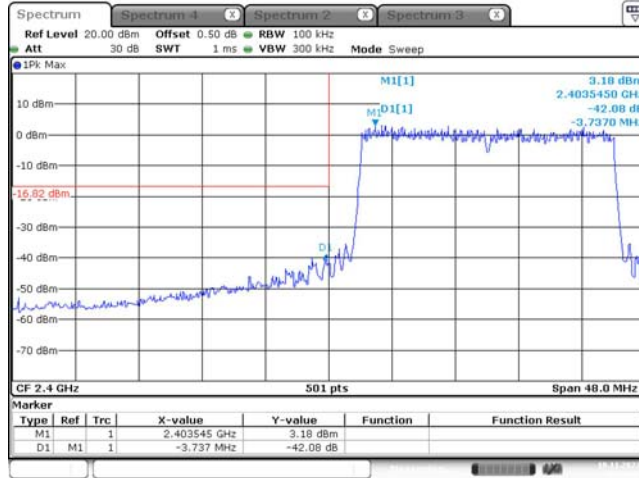
802.11n ht40
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 16:39:06

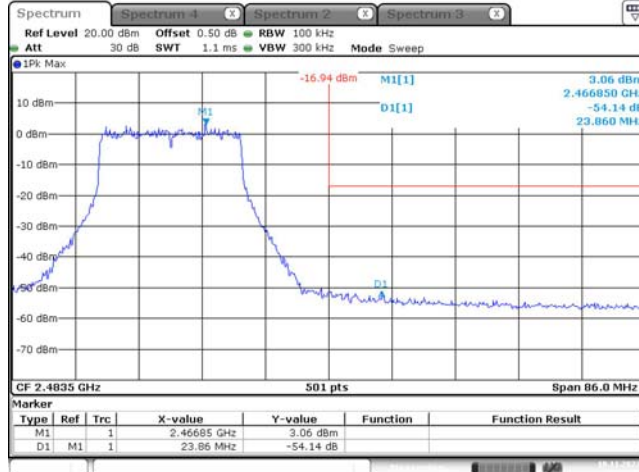
100 kHz Bandwidth of Frequency Band Edge

802.1ax he20
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:06:33

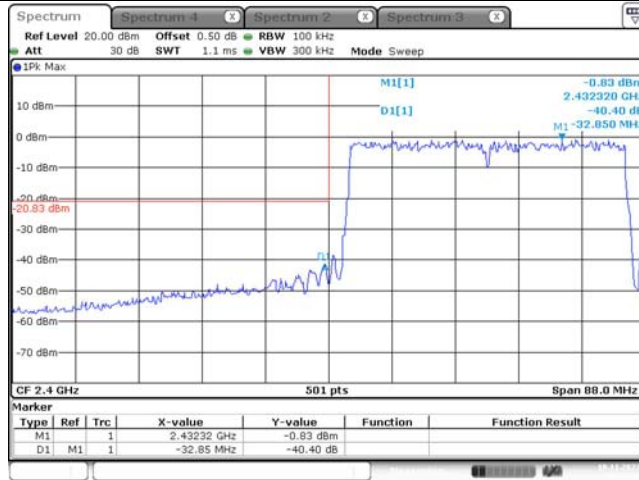
802.11ax he20
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:09:45

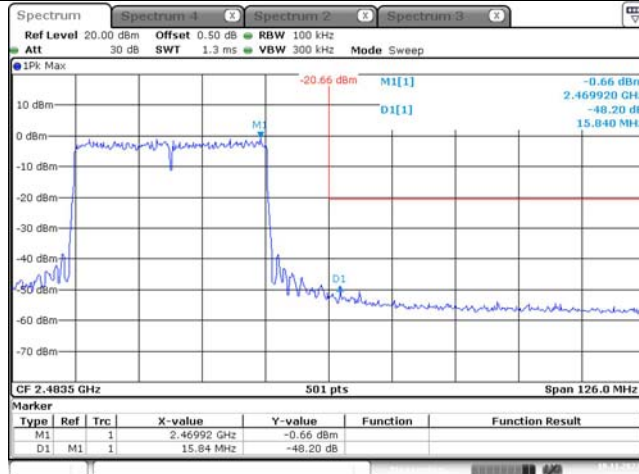
100 kHz Bandwidth of Frequency Band Edge

802.11ax he40
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:12:26

802.11ax he40
Highest Band edge

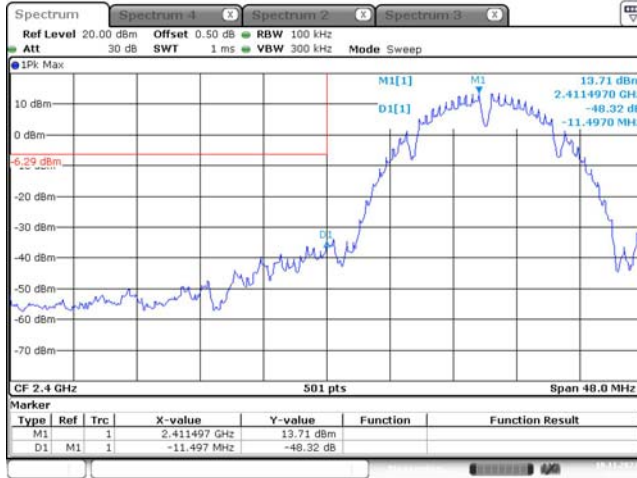


ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:15:27

Chain 1

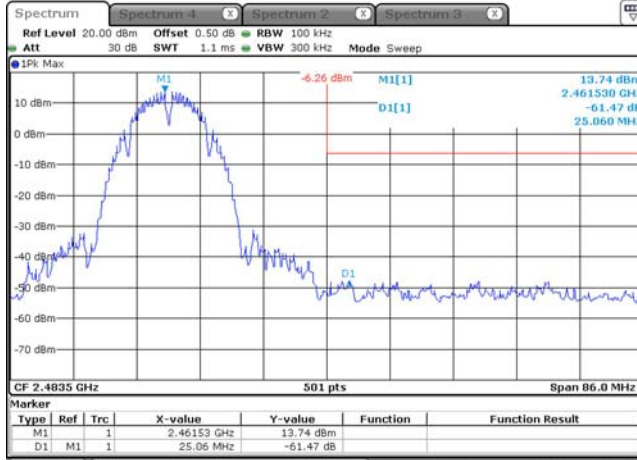
100 kHz Bandwidth of Frequency Band Edge

802.11b
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:31:15

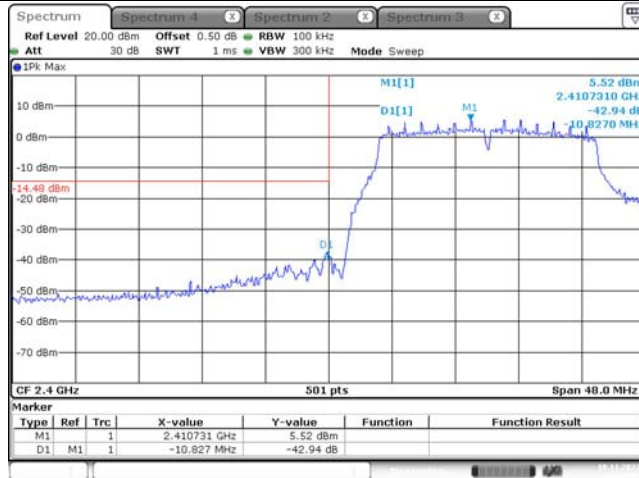
802.11b
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:41:21

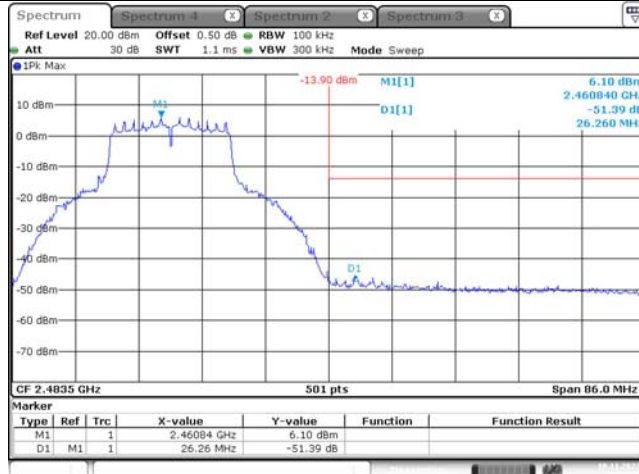
100 kHz Bandwidth of Frequency Band Edge

802.11g
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:50:00

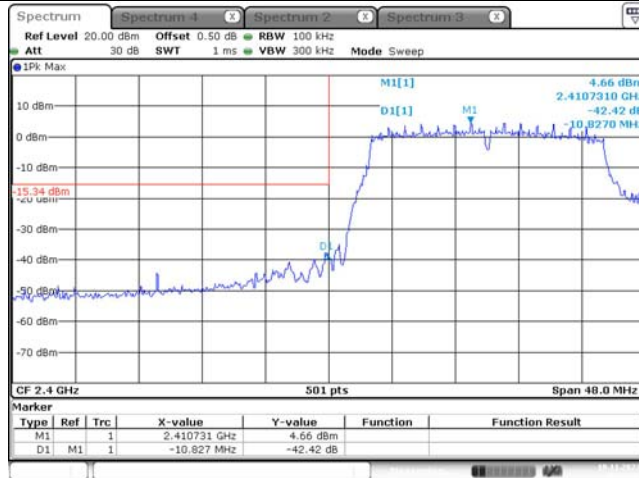
802.11g
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 17:52:27

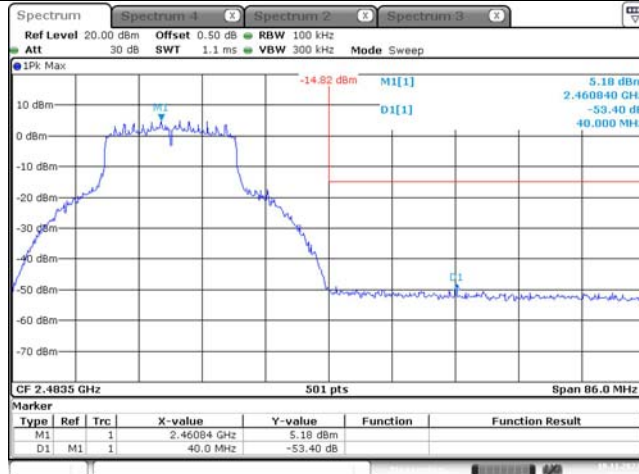
100 kHz Bandwidth of Frequency Band Edge

802.11n ht20
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:02:18

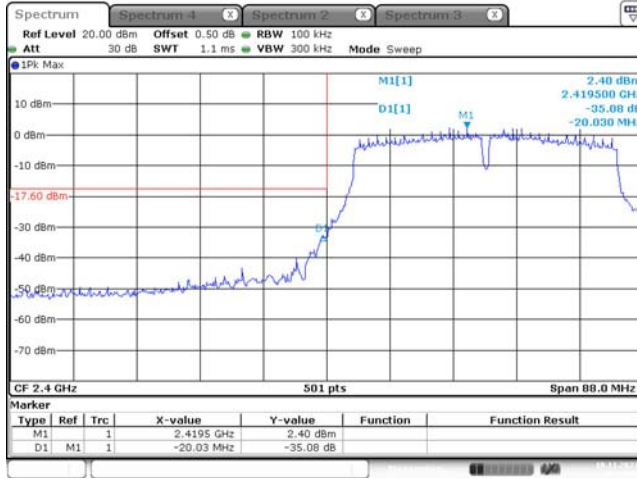
802.11n ht20
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:07:33

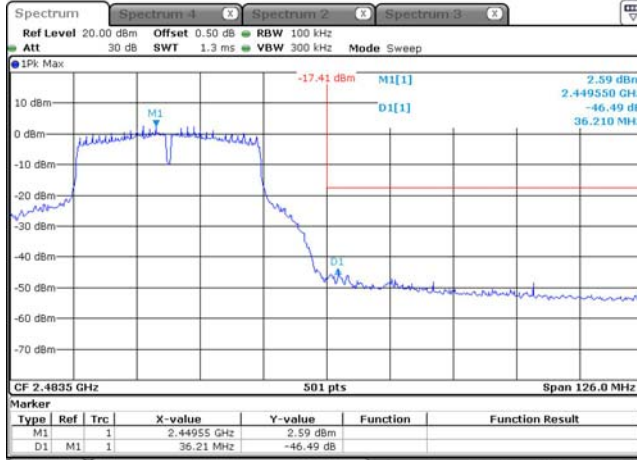
100 kHz Bandwidth of Frequency Band Edge

802.11n ht40
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:10:56

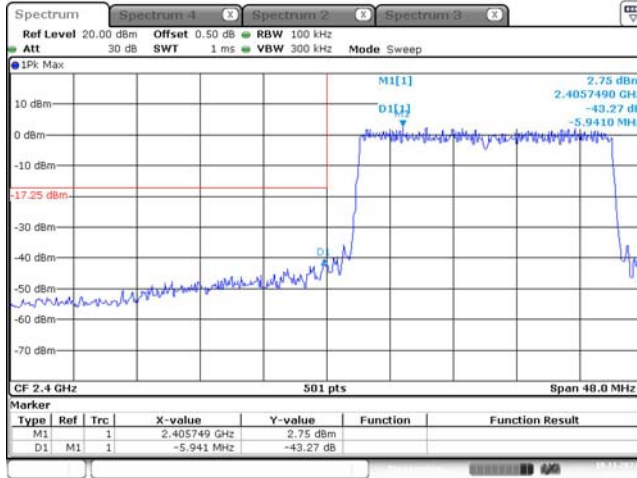
802.11n ht40
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 18:18:16

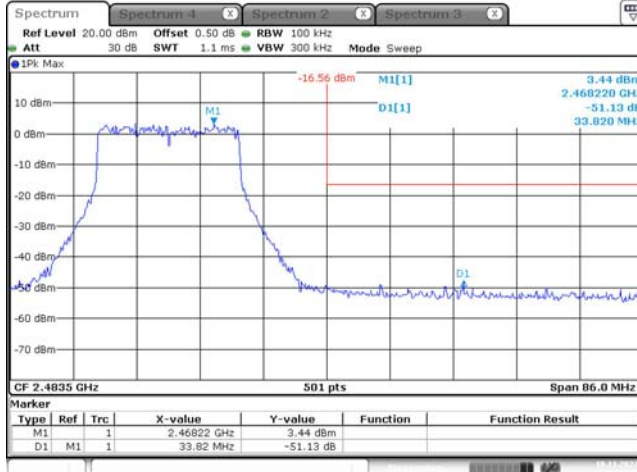
100 kHz Bandwidth of Frequency Band Edge

802.1ax ht20
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:21:11

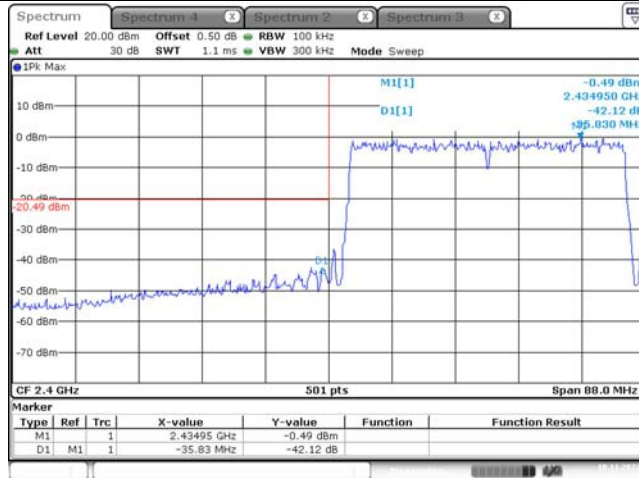
802.11ax ht20
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:24:57

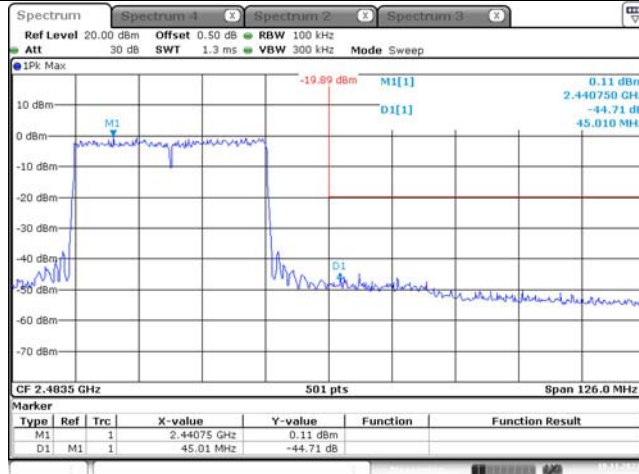
100 kHz Bandwidth of Frequency Band Edge

802.11ax ht40
Lowest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:29:20

802.11ax ht40
Highest Band edge



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:31:00

4.8 Duty Cycle:

Serial Number:	2BVX-1	Test Date:	2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.1
----------------------	------	------------------------------	----	------------------------	-------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

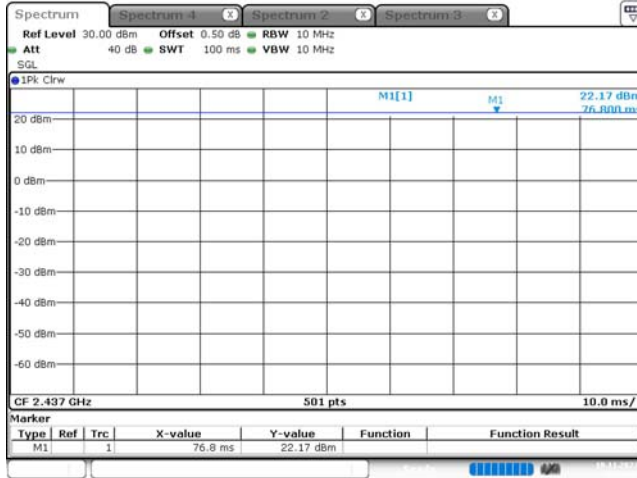
Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
802.11b	100	100	100.00	/	0.01
802.11g	1.443	1.466	98.43	/	0.01
802.11n ht20	0.684	0.724	94.48	1462	2
802.11n ht40	0.366	0.41	89.27	2732	3
802.11ax hew20	0.129	0.18	71.67	7752	10
802.11ax hew40	0.129	0.179	72.07	7752	10

Note: Test only was performed at Chain 0.

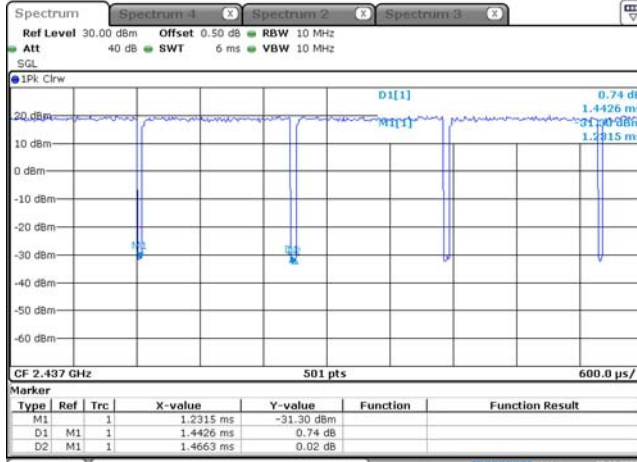
Duty Cycle

802.11b



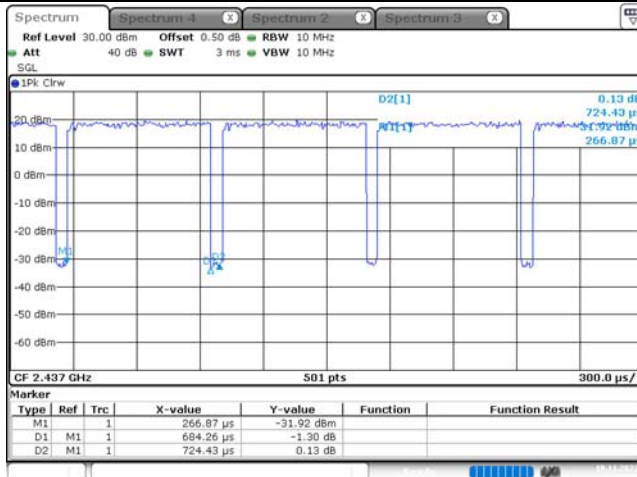
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:36:33

802.11g



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:38:36

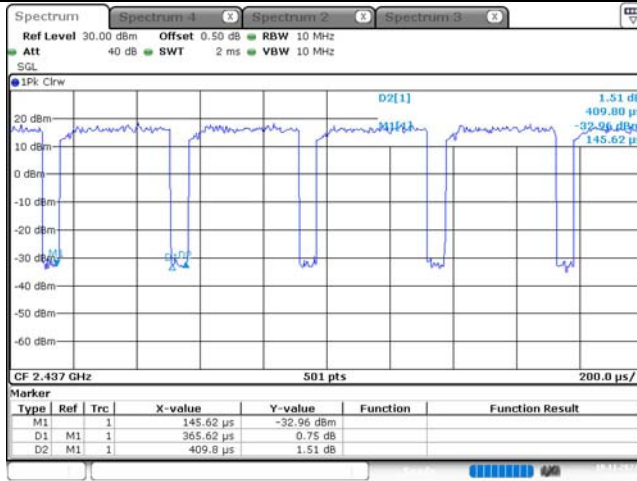
802.11n ht20



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:39:43

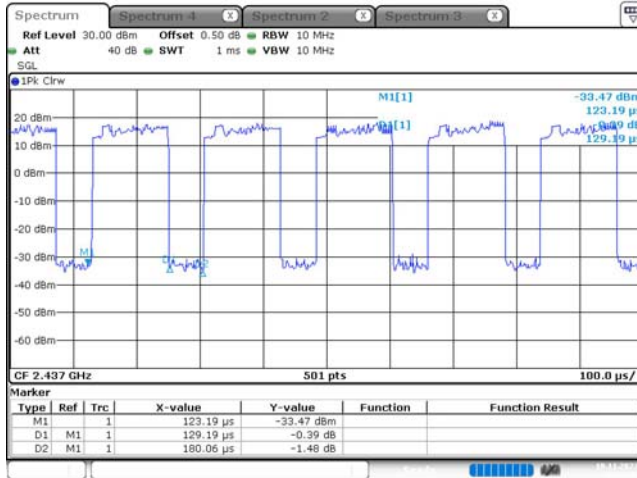
Duty Cycle

802.11n ht40



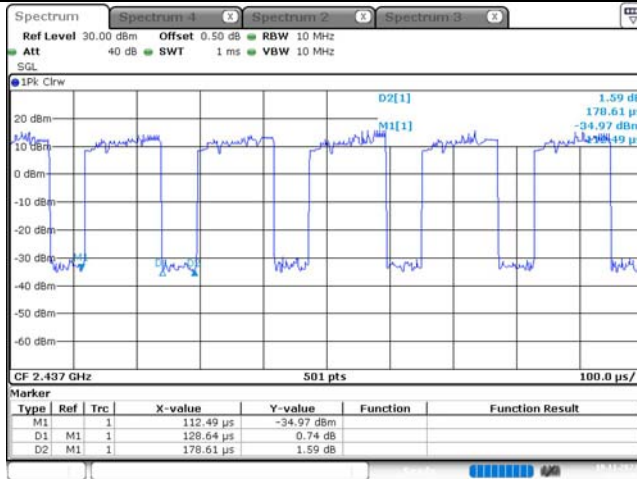
ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:40:33

802.11ax he20



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:41:40

802.11ax he40



ProjectNo.:CR230957522 Tester:Jou Zhou
Date: 10.NOV.2023 19:42:42

5. EUT PHOTOGRAPHS

Please refer to the attachment CR230957522-EXP EUT EXTERNAL PHOTOGRAPHS and CR230957522-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230957522-00B-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====