

TEST REPORT

Applicant: Fujian Newland Payment Technology Co.,Ltd.

Address: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fuzhou, Fujian, China

Product Name: Unattended Terminal

FCC ID: 2AM6U-NAU200

IC: 25226-NAU200

HVIN: U6_33_01_00_00, U6_33_03_00_00

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 C63.10-2020+Cor. 1-2023+C63.10a-2024 +
Errata to C63.10a-2024*
KDB 558074 D01 15.247 Meas Guidance v05r02

Report Number: 2502V10500E-RF-00D

Report Date: 2025/10/21

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502V10500E-RF-00D	Original Report	2025/10/21

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Unattended Terminal
EUT Model:	U200
Operation Frequency:	2412-2462MHz (802.11b/g/n ht20/n ht40)
Maximum Average Output Power (Conducted)▲:	18.09dBm
Modulation Type:	802.11b:DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
Rated Input Voltage:	7V-48Vdc 2.0A supplied by external power or 12V dc2.0A supply by adapter
Serial Number:	For AC line conducted emissions test:366Z-3(Configuration 2#) For Radiated Spurious Emissions test: 366Z-4(Configuration 1#) For RF Conducted test: 366Z-5(Configuration 1#)
EUT Received Date:	2025/7/8
EUT Received Status:	Good
Note: The device have two Configurations, Configuration 1# and Configuration 2#. The difference of them is Configuration 1# with a TOF sensor but Configuration 2# without. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	SHENZHEN HONOR ELECTRONIC CO., LTD.	ADS-25SGP-12 12024E	INPUT: AC 100-240V, 50/60Hz, Max 0.7A OUTPUT: DC 12V, 2.0A, 24W

1.3 Antenna Information Detail ▲

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
FPC	50	2.4-2.5GHz	0.6dBi
The design of compliance with §15.203:			
☒	Unit uses a permanently attached antenna.		
☐	Unit uses a unique coupling to the intentional radiator.		
☐	Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.		

1.4 Equipment Modifications

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

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result	Note
§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 RSS-247 Clause 5.5	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*	The test result please refer to report PD20240152-R4D▲ page28/30/31 for IC
§15.247(b)(3) RSS-247 Clause 5.4 d)	Maximum Conducted Output Power	Reporting	The test result please refer to report PD20240152-R3D▲ page26-27 for FCC and PD20240152-R4D▲ page26-27 for IC
§15.247(d) RSS-247 Clause5.5	Conducted Spurious Emission	Compliant*	The test result please refer to report PD20240152-R3D▲ page34-38 for FCC and PD20240152-R4D▲ page34-38 for IC
§15.247(e) RSS-247 Clause5.2 b)	Power Spectral Density	Compliant	/
FCC §15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant	/

Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested.

Note 2: For Radiated Spurious Emissions 9kHz~1GHz and 18~25GHz, the maximum output power mode and channel was tested.

Note 3:

Compliant*: The device built in a certified module, model: SC200E-NA, FCC ID: XMR2024SC200ENA, IC: 10224A-024SC200ENA, per spot check, the RF parameters are identical with the original module report, therefore, the RF conducted test items please refer to the module FCC report: PD20240152-R3D▲ and IC report: PD20240152-R4D▲, which was issued by Hefei Panwin Technology Co., Ltd. on 2025/02/17 for FCC and 2025/02/17 for IC. (according to KDB 996369 D02 Module Q&A v02r02, Answer 1 b))

The Bay Area Compliance Laboratories Corp.(Dongguan) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

Note 4:

Per 15B&ICES 003 Issue 7 report, Configuration 2# was the worst for AC line conducted emissions and Configuration 1# was the worst for Radiated Spurious Emissions, so only performed it.

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

For 802.11b/g/n ht20:

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	/	/

For 802.11n ht40:

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

Note: The above frequencies in bold were performed the test.

3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

EUT Exercise Software:		QRCT3		
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		
		Lowest Channel	Middle Channel	Highest Channel
802.11b	1Mbps	20	20	20
802.11g	6Mbps	17	17	17
802.11n ht20	MCS0	17	17	17
802.11n ht40	MCS0	16	16	16
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.				

3.3 Support Equipment List and Details

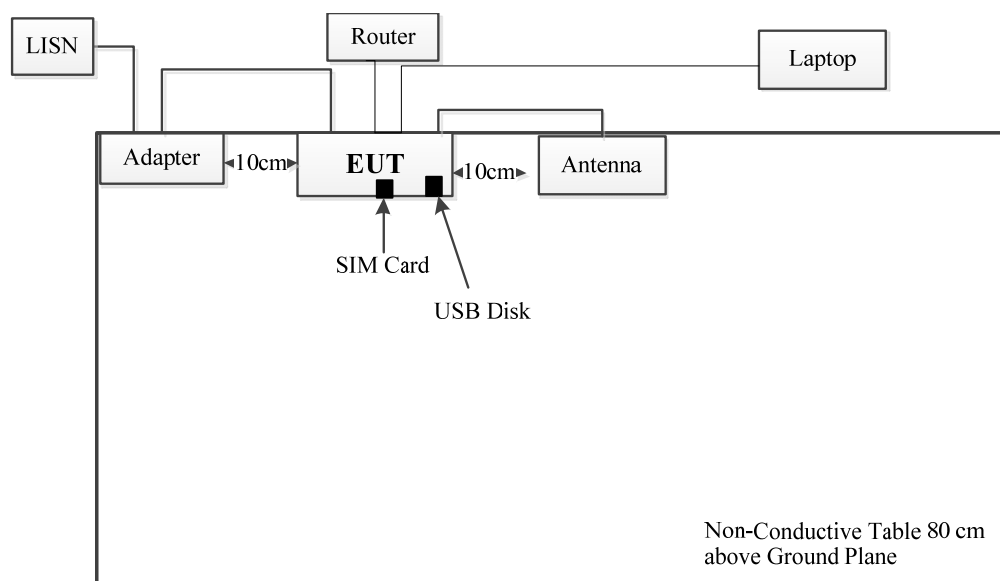
Manufacturer	Description	Model	Serial Number
/	SIM Card	/	180722
SANDisk	USB Disk	16G	BL201026115 B
Lenovo	Laptop	E480	PF-1QQYYP 19/06
TOTO Link	Router	LR1200	190924004S1

3.4 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	No	No	1.8	Adapter	EUT
RS232 Cable	No	No	3	Laptop	EUT
RJ45 Cable	No	No	3	Router	EUT

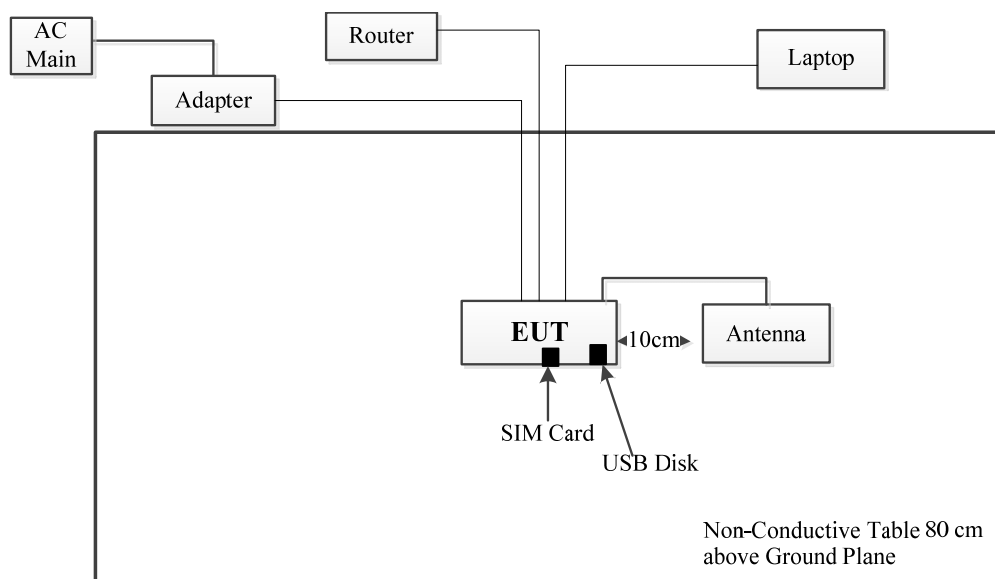
3.5 Block Diagram of Test Setup

AC line conducted emissions:

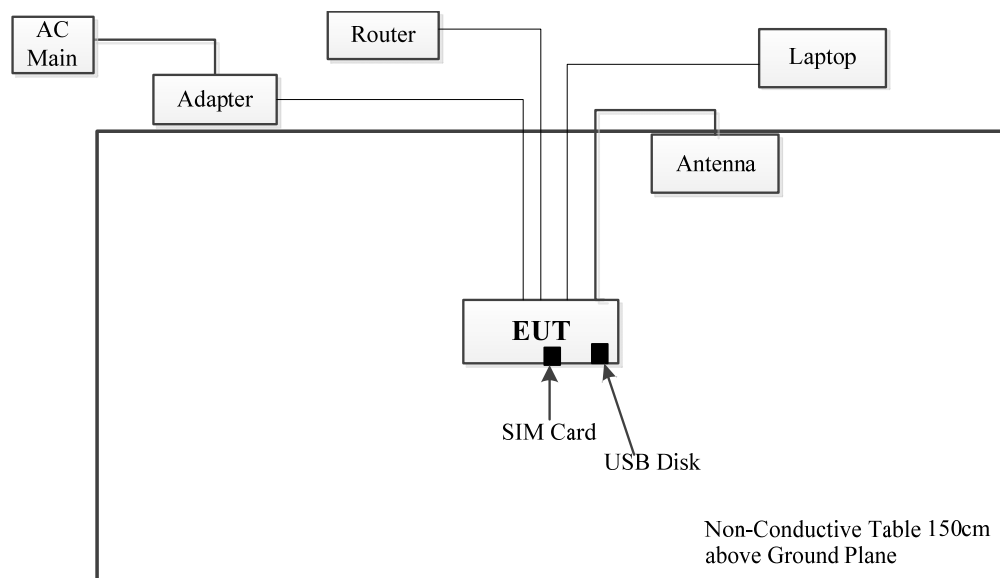


Spurious Emissions:

Below 1GHz:



Above 1GHz:



3.6 Test Facility

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

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

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.7 Measurement Uncertainty

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

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

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 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

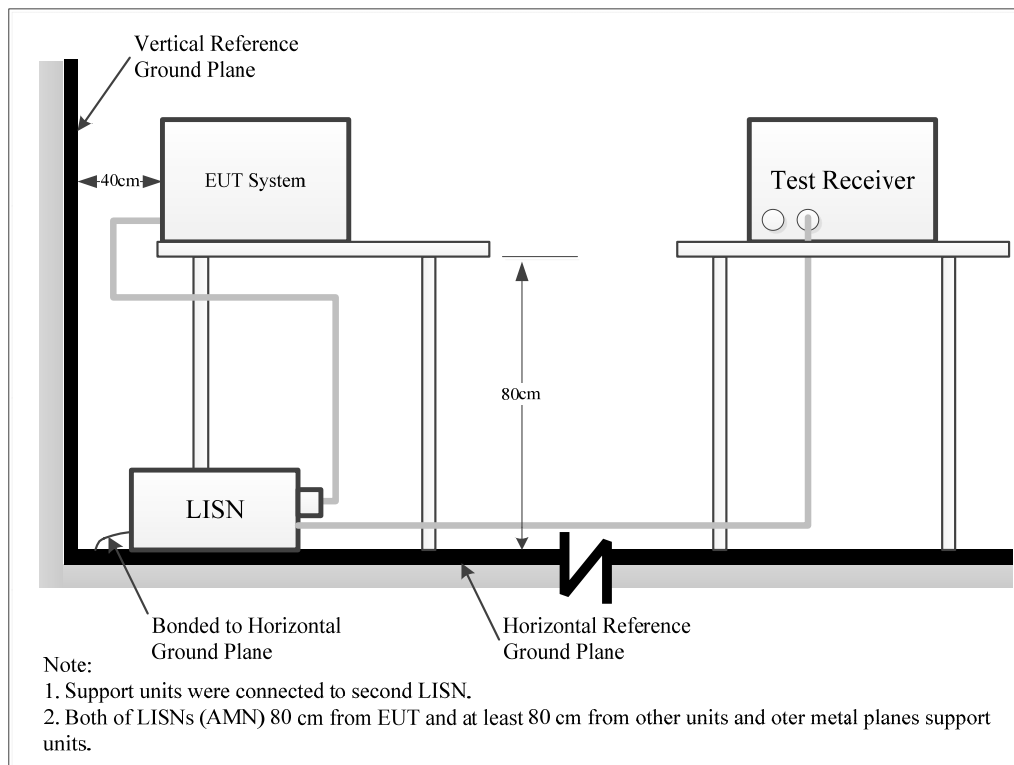
Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

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.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 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.

4.1.3 EMI Test Receiver Setup

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

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

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

4.1.4 Test Procedure

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

4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

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

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

Margin = Limit – Result

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiation Spurious Emissions

4.2.1 Applicable Standard

FCC §15.247 (d);

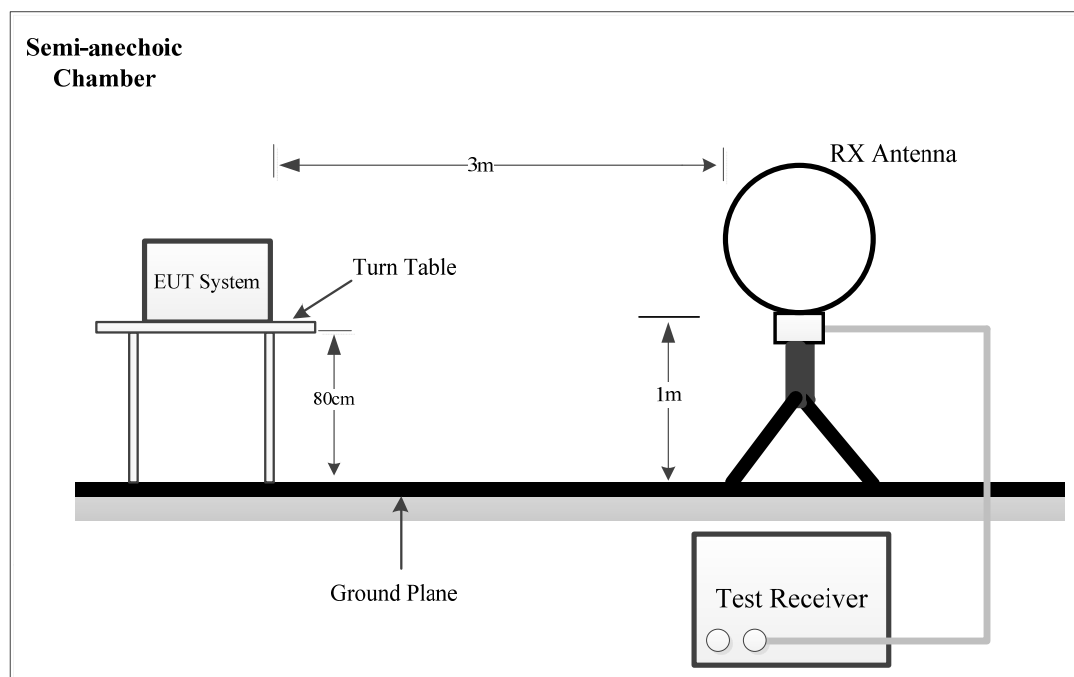
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

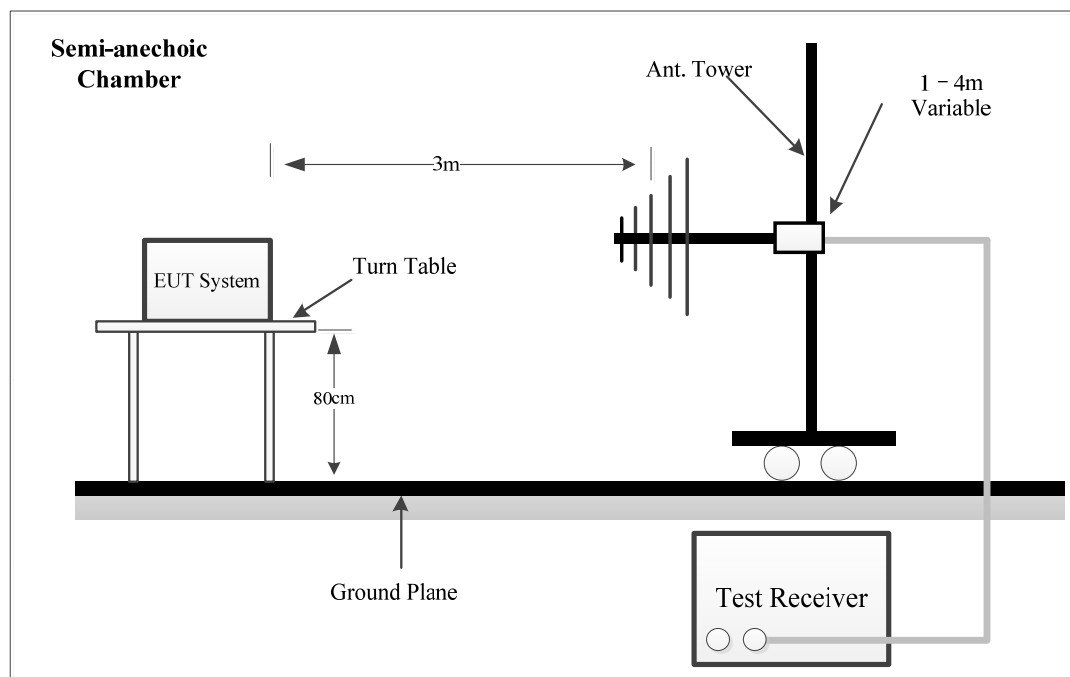
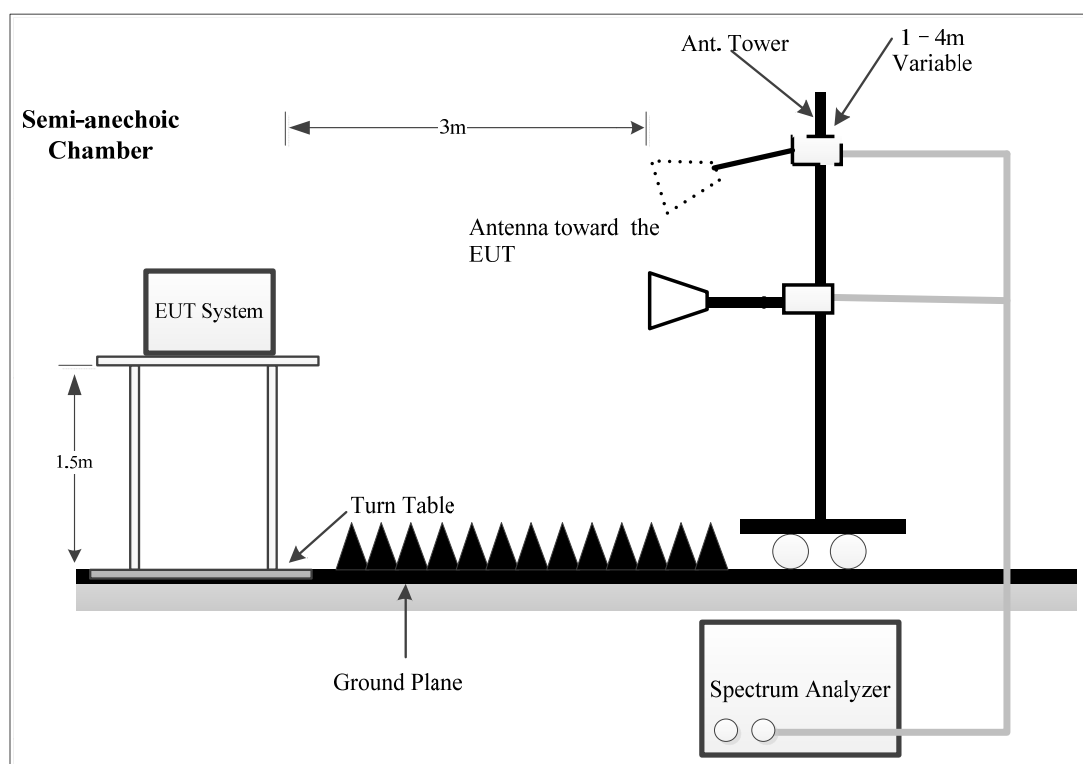
RSS-247 Clause 5.5

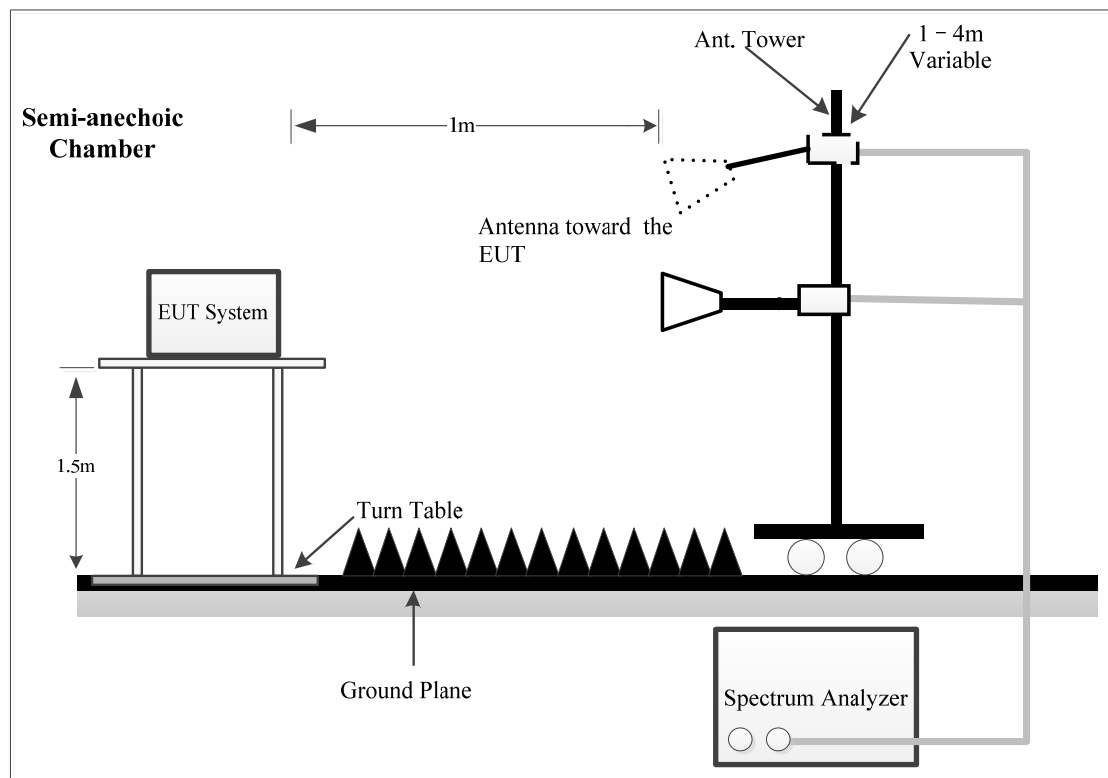
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either 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

4.2.2 EUT Setup

9kHz~30MHz:



30MHz~1GHz:**1-18GHz:**

18-25GHz:

The radiated emissions were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2020. 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.

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

4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

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

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	QP/AV	200 Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	QP/AV	9 kHz	30 kHz	9 kHz	QP/AV
30MHz – 1000 MHz	PK	120 kHz	500 kHz	/	PK
	QP	/	/	120kHz	QP

1GHz- 25GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

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

Note: T is minimum transmission duration

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

4.2.4 Test Procedure

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

Data was required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

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.

For Radiated 18-25GHz test, which was performed at 1.0 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.0m

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.0m]}) \text{ dB} = 9.54 \text{ dB}$

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

4.2.5 Corrected Amplitude & Margin Calculation

$$E_{Log} = 20 \times \log_{10}(E_{Linear})$$

E_{Linear} is the field strength of the emission, in $\mu\text{V/m}$

E_{Log} is the field strength of the emission, in $\text{dB}\mu\text{V/m}$

For 9kHz-30MHz test, test distance is 3m, extrapolation limit shall be calculated using Equation:

$$E_{\text{limit-measure}} = E_{\text{limit-Standard}} + 40 \times \log_{10} (d_{\text{standard}}/d_{\text{measure}})$$

The basic equation except 18-25GHz test is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For Radiated 18-25GHz test:

Factor = Antenna Factor + Cable Loss- Distance extrapolation Factor

Result = Reading + Factor

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

For the spurious emission below 30MHz, the limit was convert from $\text{dB}\mu\text{A/m}$ to $\text{dB}\mu\text{V/m}$ by adding 51.5 dB.

4.2.6 Test Result

Please refer to section 5.2.

4.3 Minimum 6 dB Emission Bandwidth

4.3.1 Applicable Standard

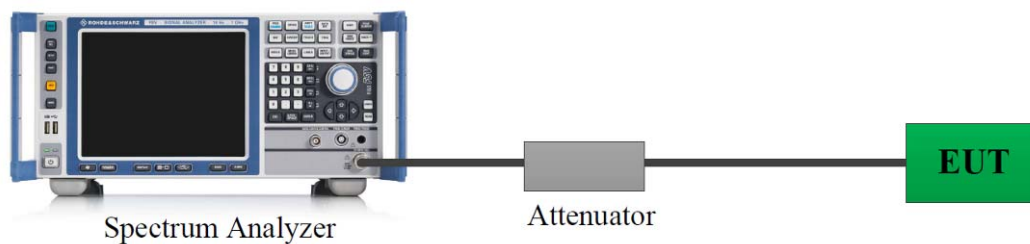
FCC §15.247 (a)(2)

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

RSS-247 Clause 5.2 a

The minimum 6 dB bandwidth shall be 500 kHz.

4.3.2 EUT Setup



4.3.3 Test Procedure

According to ANSI C63.10-2020 Section 11.8

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

4.3.4 Judgment

Please refer to section 5.3.

4.4 Maximum Conducted Output Power

4.4.1 Applicable Standard

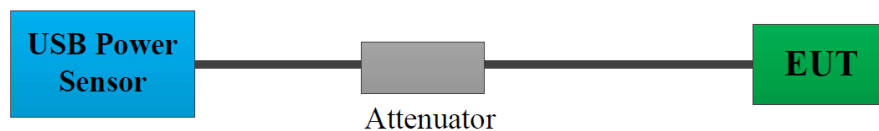
FCC §15.247 (b)(3)

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 DTSSs 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).

4.4.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.4.3 Test Procedure

According to ANSI C63.10-2020 Section 11.9.2.3.2

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

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

4.4.4 Test Result

Please refer to section 5.4.

4.5 Maximum Power Spectral Density

4.5.1 Applicable Standard

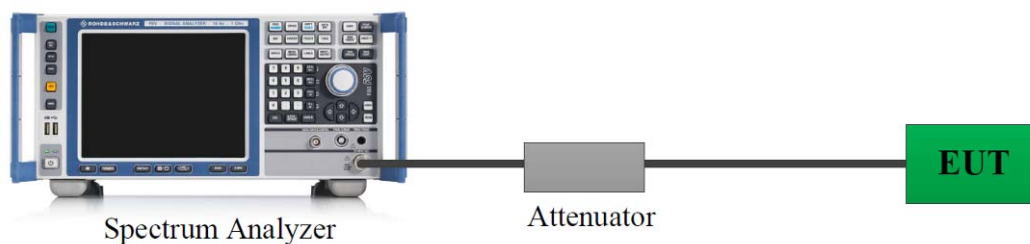
FCC §15.247 (e)

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 Clause 5.2 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).

4.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.5.3 Test Procedure

According to ANSI C63.10-2020

Duty cycle $\geq 98\%$

Section 11.10.3 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

Section 11.10.5 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

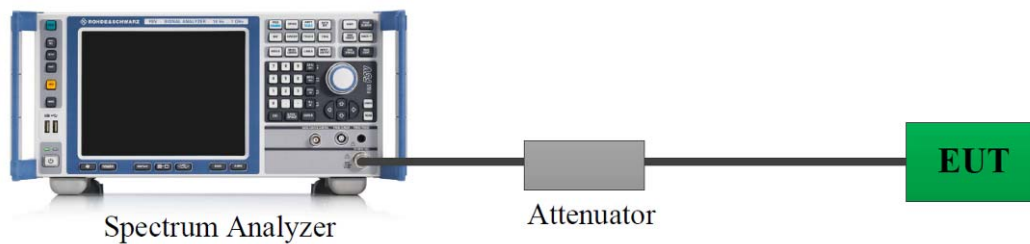
Section 11.10.7 should be applied.

4.5.4 Judgment

Please refer to section 5.5.

4.6 Duty Cycle

4.6.1 EUT Setup



4.6.2 Test Procedure

According to ANSI C63.10-2020 Section 11.6

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

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

4.6.3 Judgment

Please refer to section 5.6.

4.7 Antenna Requirement

4.7.1 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.

4.7.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. Test DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	366Z-3	Test Date:	2025/7/18
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2	Relative Humidity: (%)	65	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
Unknown	Coaxial Cable	RG 142	C-0200-05	2025/5/6	2026/5/5
R&S	EMI Test Receiver	ESCI	100224	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

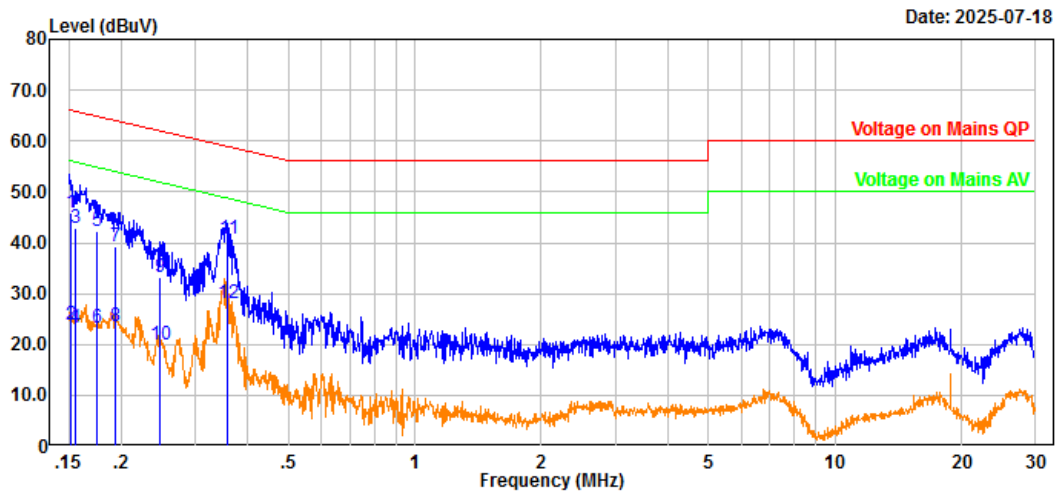
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Note: 802.11b High Channel was tested.

Project No.: 2502V10500E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 366Z-3
Tester: Yukin Qiu
Note: 2.4G

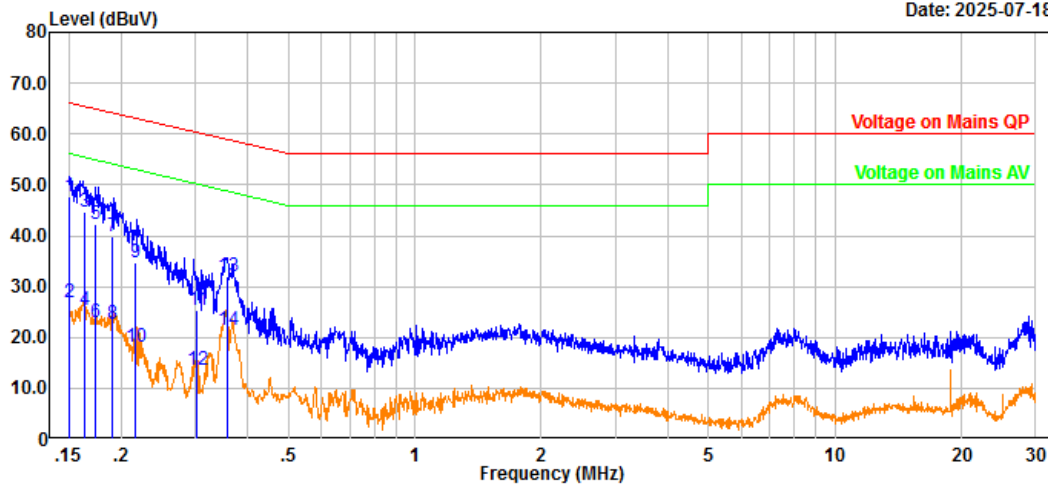


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.151	34.70	11.19	45.89	65.92	20.03	QP
2	0.151	12.66	11.19	23.85	55.92	32.07	Average
3	0.156	31.86	11.15	43.01	65.69	22.68	QP
4	0.156	12.08	11.15	23.23	55.69	32.46	Average
5	0.175	31.37	11.00	42.37	64.70	22.33	QP
6	0.175	12.21	11.00	23.21	54.70	31.49	Average
7	0.194	28.51	10.85	39.36	63.86	24.50	QP
8	0.194	12.71	10.85	23.56	53.86	30.30	Average
9	0.246	22.37	10.77	33.14	61.88	28.74	QP
10	0.246	9.06	10.77	19.83	51.88	32.05	Average
11	0.359	30.09	10.70	40.79	58.75	17.96	QP
12	0.359	17.39	10.70	28.09	48.75	20.66	Average

Project No.: 2502V10500E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 366Z-3
Tester: Yukin Qiu
Note: 2.4G

Date: 2025-07-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.150	37.01	10.70	47.71	65.99	18.28	QP
2	0.150	16.12	10.70	26.82	55.99	29.17	Average
3	0.164	34.03	10.76	44.79	65.25	20.46	QP
4	0.164	14.50	10.76	25.26	55.25	29.99	Average
5	0.174	31.44	10.80	42.24	64.76	22.52	QP
6	0.174	12.09	10.80	22.89	54.76	31.87	Average
7	0.191	28.93	10.86	39.79	64.00	24.21	QP
8	0.191	11.84	10.86	22.70	54.00	31.30	Average
9	0.217	23.95	10.88	34.83	62.95	28.12	QP
10	0.217	7.21	10.88	18.09	52.95	34.86	Average
11	0.303	14.58	10.76	25.34	60.16	34.82	QP
12	0.303	2.95	10.76	13.71	50.16	36.45	Average
13	0.357	21.30	10.70	32.00	58.80	26.80	QP
14	0.357	10.67	10.70	21.37	48.80	27.43	Average

5.2 Radiation Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	366Z-4	Test Date:	2025/7/31
Test Site:	Chamber10m	Test Mode:	Transmitting
Tester:	Zoo Zou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	28.1	Relative Humidity: (%)	46	ATM Pressure: (kPa)	99.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
GLOBAL	Active Loop Antenna	1313-1A	4060411	2025/6/26	2028/6/25
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2025/7/1	2026/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2025/7/1	2026/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2025/7/1	2026/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

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

Test Data:

Please refer to the below table and plots.

Note: 802.11b High Channel was tested.

9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

Project No.: 2502V10500E-RF

Serial No.: 366Z-4

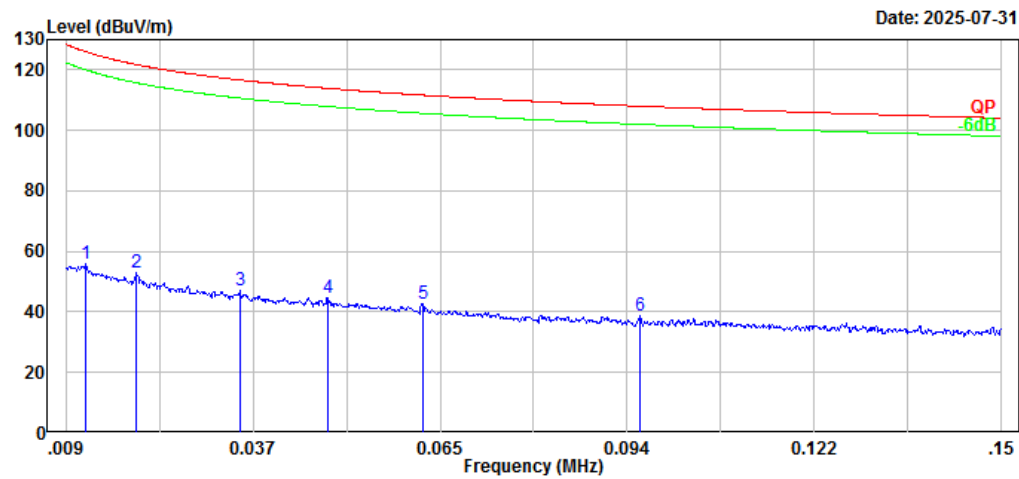
Polarization: Parallel

Tester: Zoo Zou

Test Mode: Transmitting

Note: 2.4G Wifi

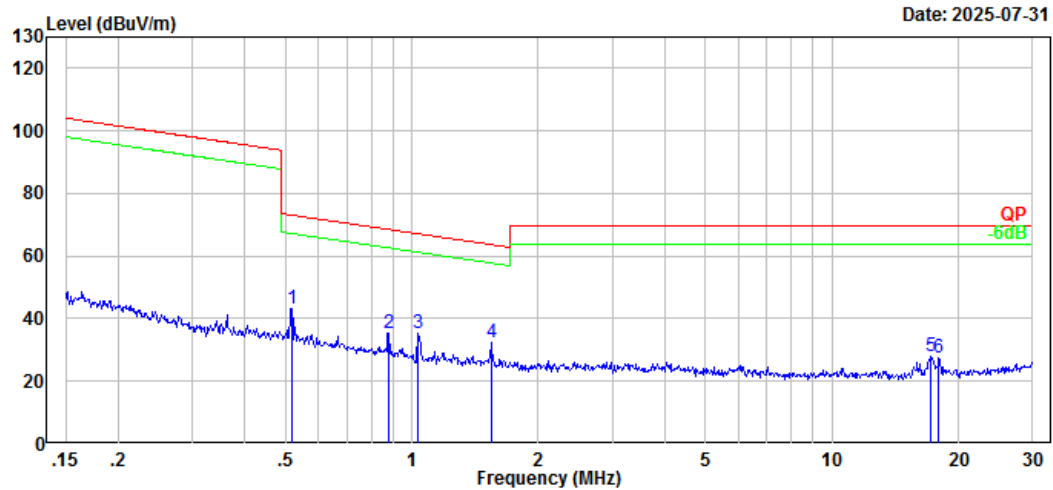
RBW:200Hz VBW:1kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.012	54.37	1.74	56.11	125.95	69.84	Peak
2	0.020	52.98	-0.10	52.88	121.71	68.83	Peak
3	0.035	49.75	-2.79	46.96	116.67	69.71	Peak
4	0.048	48.67	-4.10	44.57	113.89	69.32	Peak
5	0.063	48.62	-5.76	42.86	111.66	68.80	Peak
6	0.096	47.12	-8.58	38.54	108.00	69.46	Peak

Project No.: 2502V10500E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: 2.4G Wifi
RBW:9kHz VBW:30kHz

Serial No.: 366Z-4
Tester: Zoo Zou

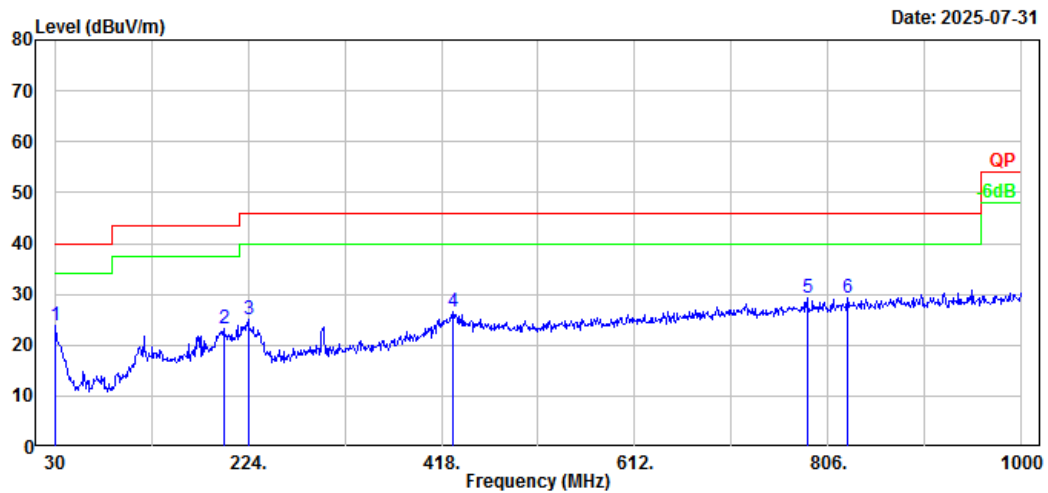


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.518	67.05	-23.82	43.23	73.30	30.07	Peak
2	0.880	63.27	-27.92	35.35	68.60	33.25	Peak
3	1.037	64.09	-28.74	35.35	67.15	31.80	Peak
4	1.544	62.53	-30.08	32.45	63.62	31.17	Peak
5	17.109	61.27	-33.12	28.15	69.54	41.39	Peak
6	17.944	60.62	-33.15	27.47	69.54	42.07	Peak

30MHz-1GHz

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 2.4G Wifi
RBW:120kHz VBW:500kHz

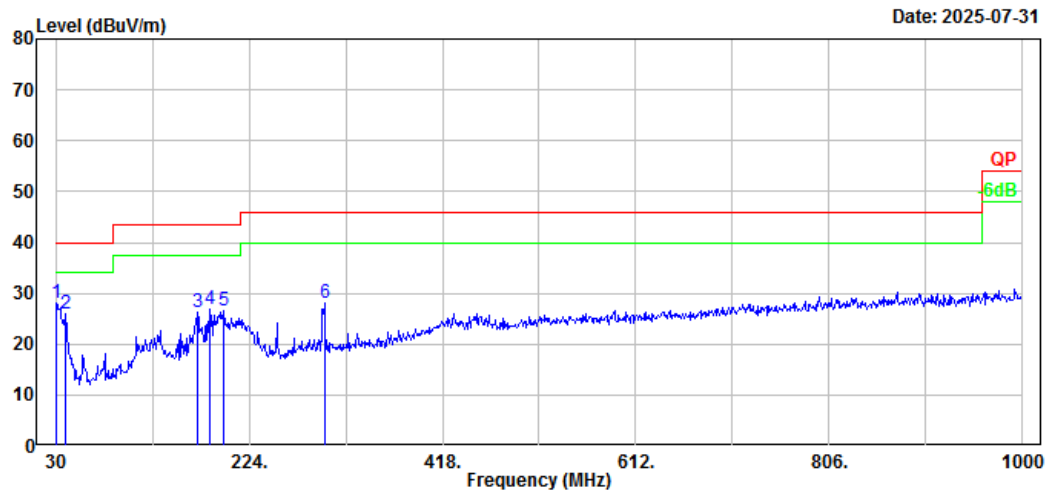
Serial No.: 366Z-4
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	30.00	27.95	-4.10	23.85	40.00	16.15	Peak
2	199.75	34.73	-11.35	23.38	43.50	20.12	Peak
3	224.00	37.48	-12.57	24.91	46.00	21.09	Peak
4	429.64	32.65	-6.17	26.48	46.00	19.52	Peak
5	784.66	29.14	0.20	29.34	46.00	16.66	Peak
6	825.40	28.75	0.63	29.38	46.00	16.62	Peak

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 2.4G Wifi
RBW:120kHz VBW:500kHz

Serial No.: 366Z-4
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	30.97	32.73	-4.77	27.96	40.00	12.04	Peak
2	39.70	36.64	-10.73	25.91	40.00	14.09	Peak
3	172.59	38.02	-11.84	26.18	43.50	17.32	Peak
4	184.23	38.97	-12.24	26.73	43.50	16.77	Peak
5	198.78	37.86	-11.44	26.42	43.50	17.08	Peak
6	299.66	37.42	-9.32	28.10	46.00	17.90	Peak

2) 1-25GHz:

Serial Number:	366Z-4	Test Date:	2025/8/1
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Leo Xiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5	Relative Humidity: (%)	33	ATM Pressure: (kPa)	99.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2025/4/11	2026/4/10
AH	Preamplifier	PAM-1840VH	191	2024/9/6	2025/9/5
R&S	Spectrum Analyzer	FSV40	101944	2024/9/5	2025/9/4
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

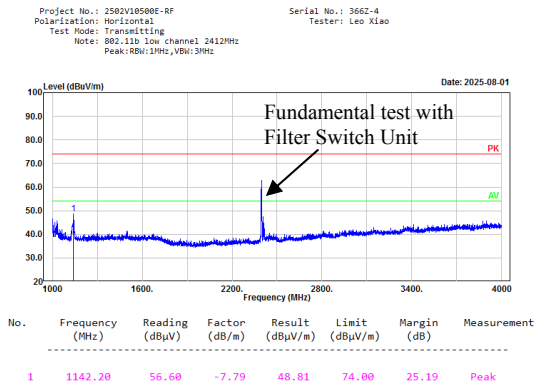
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

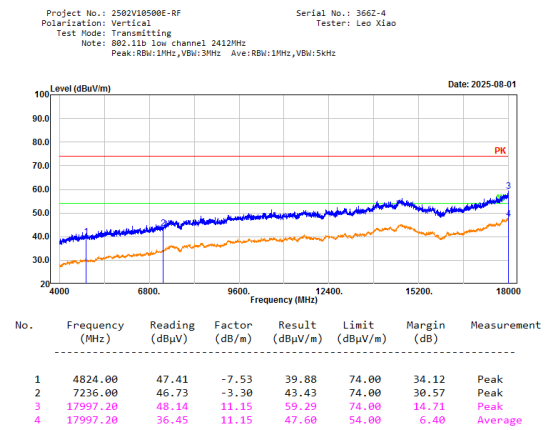
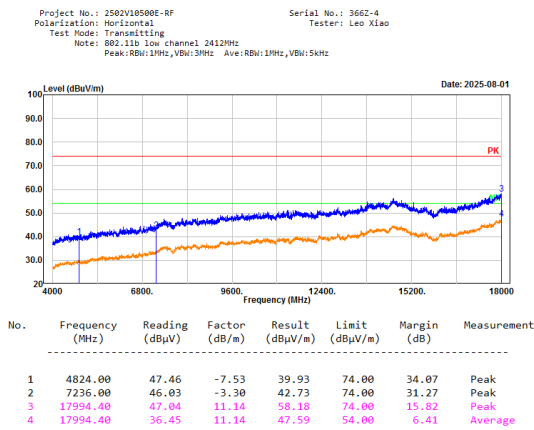
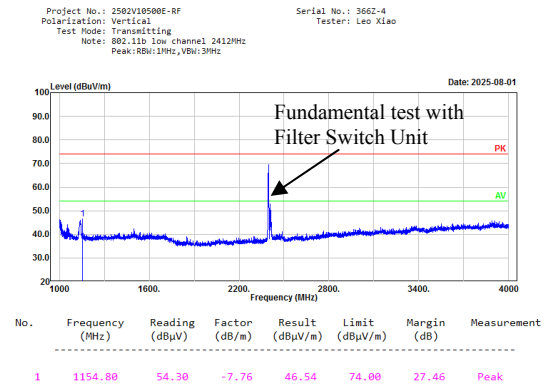
Please refer to the below table and plots.

1-18GHz:

802.11b mode, Low Channel, Horizontal



802.11b mode, Low Channel, Vertical

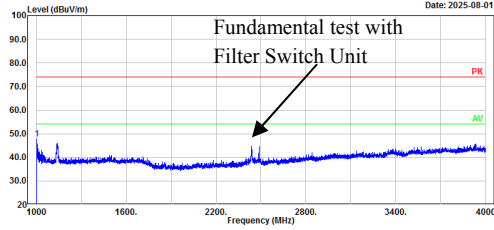


802.11b mode, Middle Channel, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

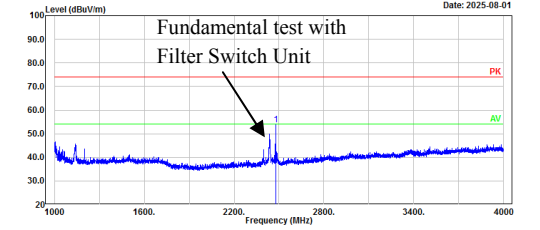


802.11b mode, Middle Channel, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

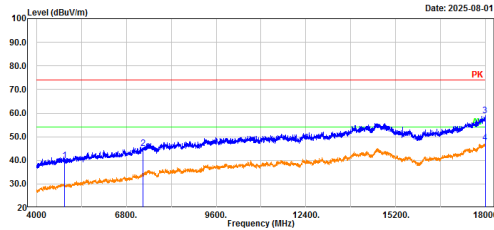
Date: 2025-08-01



Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

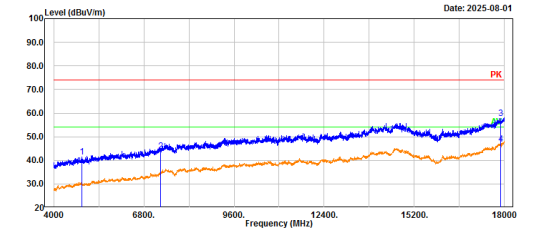
Date: 2025-08-01



Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

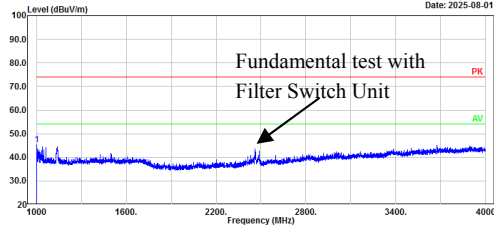


802.11b mode, High Channel, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



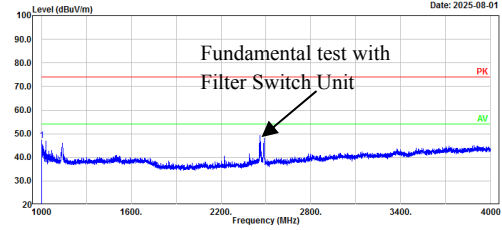
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1003.00	53.27	-8.04	45.23	74.00	28.77	Peak

802.11b mode, High Channel, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

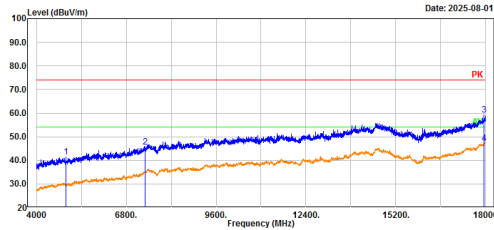


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1000.00	55.29	-8.04	47.25	74.00	26.75	Peak

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

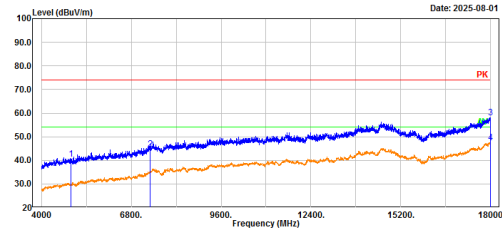


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	48.83	-7.49	41.34	74.00	32.66	Peak
2	7386.00	48.07	-2.45	45.62	74.00	28.38	Peak
3	17952.40	48.32	10.89	59.21	74.00	14.79	Peak
4	17952.40	36.38	10.89	47.27	54.00	6.73	Average

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



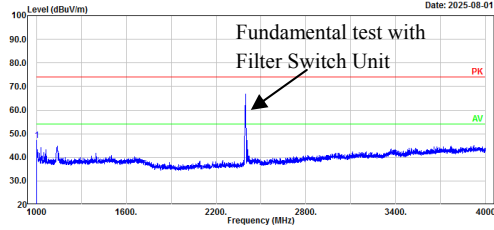
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	47.94	-7.49	40.45	74.00	33.55	Peak
2	7386.00	47.18	-2.45	44.73	74.00	29.27	Peak
3	17991.60	47.02	11.13	58.15	74.00	15.85	Peak
4	17991.60	36.36	11.13	47.49	54.00	6.51	Average

802.11g mode, Low Channel, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



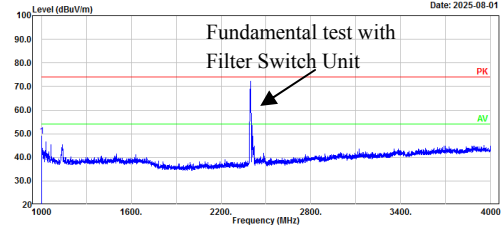
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1000.60	55.09	-8.04	47.05	74.00	26.95	Peak

802.11g mode, Low Channel, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

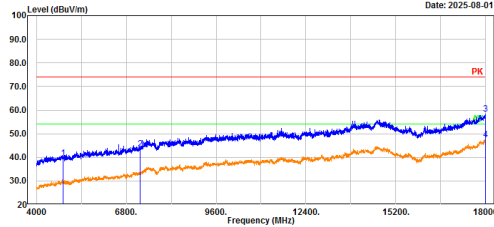


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1000.00	57.13	-8.04	49.09	74.00	24.91	Peak

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

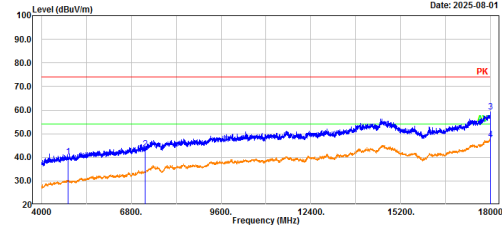


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4824.00	47.04	-7.53	39.51	74.00	34.49	Peak
2	7236.00	46.88	-3.30	43.58	74.00	30.42	Peak
3	17991.60	47.34	11.13	58.47	74.00	15.53	Peak
4	17991.60	36.24	11.13	47.37	54.00	6.63	Average

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



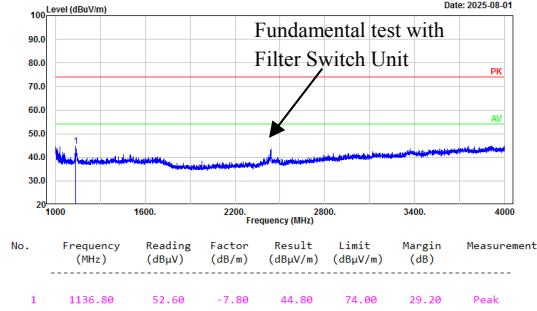
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4824.00	47.90	-7.53	40.37	74.00	33.63	Peak
2	7236.00	46.82	-3.30	43.52	74.00	30.48	Peak
3	17997.20	48.15	11.15	59.30	74.00	14.70	Peak
4	17997.20	36.34	11.15	47.49	54.00	6.51	Average

802.11g mode, Middle Channel, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11g middle channel 2437MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

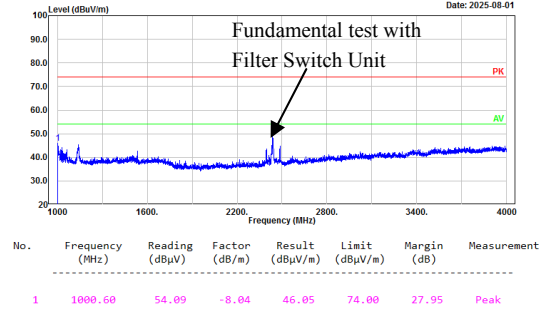


802.11g mode, Middle Channel, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11g middle channel 2437MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

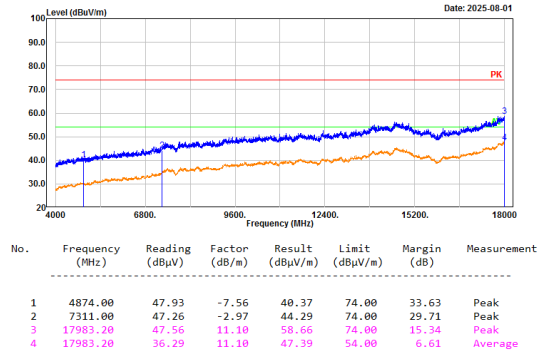
Date: 2025-08-01



Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11g middle channel 2437MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

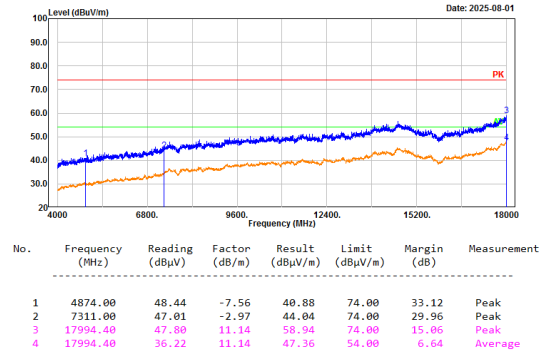
Date: 2025-08-01



Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11g middle channel 2437MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

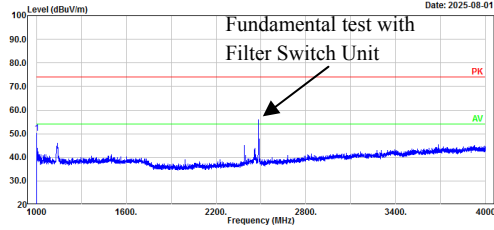


802.11g mode, High Channel, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



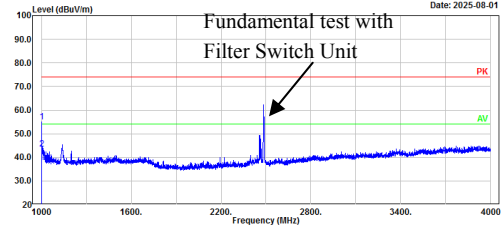
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1000.00	58.32	-8.04	50.28	74.00	23.72	Peak

802.11g mode, High Channel, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

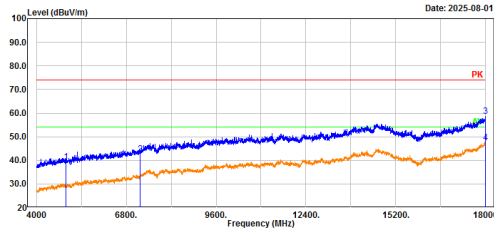


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1000.00	63.02	-8.04	54.98	74.00	19.02	Peak
2	1000.00	51.60	-8.04	43.56	54.00	10.44	Average

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

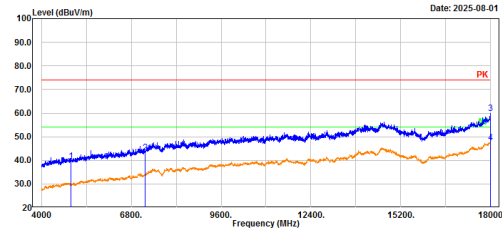


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	46.85	-7.49	39.36	74.00	34.64	Peak
2	7236.00	46.08	-3.30	42.78	74.00	31.22	Peak
3	17986.00	47.64	11.10	58.74	74.00	15.26	Peak
4	17986.00	36.28	11.10	47.38	54.00	6.62	Average

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



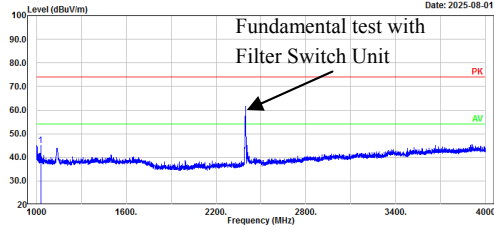
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	47.04	-7.49	39.55	74.00	34.45	Peak
2	7236.00	46.47	-3.30	43.17	74.00	30.83	Peak
3	17997.20	48.56	11.15	59.71	74.00	14.29	Peak
4	17997.20	36.33	11.15	47.48	54.00	6.52	Average

802.11n20 mode, Low Channel, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



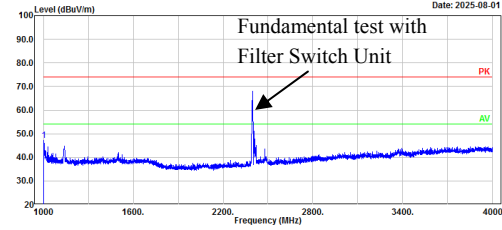
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1028.20	53.17	-8.03	45.14	74.00	28.86	Peak

802.11n20 mode, Low Channel, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

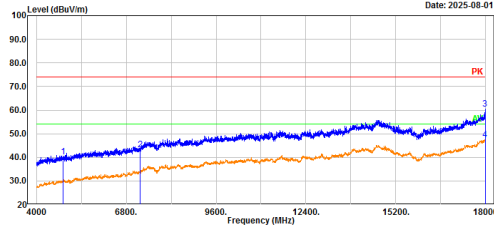


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1000.60	55.14	-8.04	47.10	74.00	26.90	Peak

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

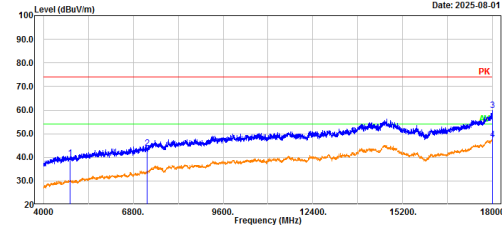


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4824.00	47.68	-7.53	40.15	74.00	33.85	Peak
2	7236.00	46.51	-3.30	43.21	74.00	30.79	Peak
3	17988.40	49.35	11.07	60.42	74.00	13.58	Peak
4	17988.40	36.48	11.07	47.55	54.00	6.45	Average

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

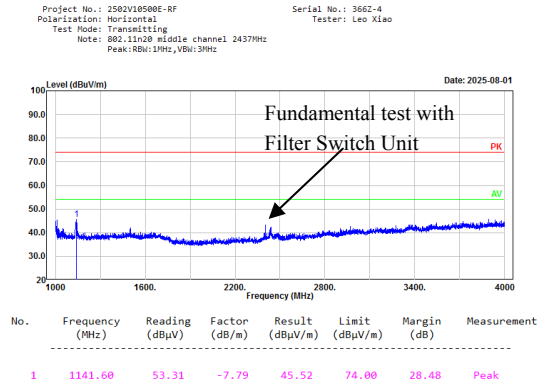
Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

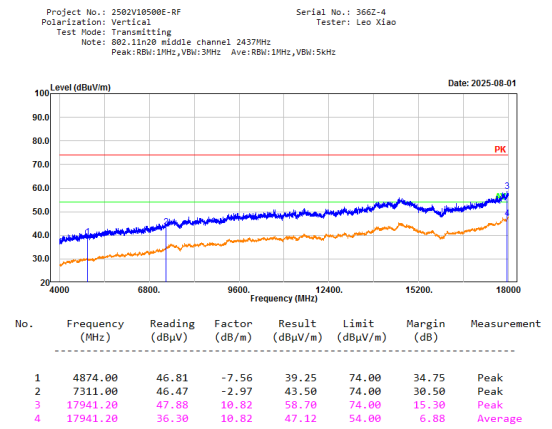
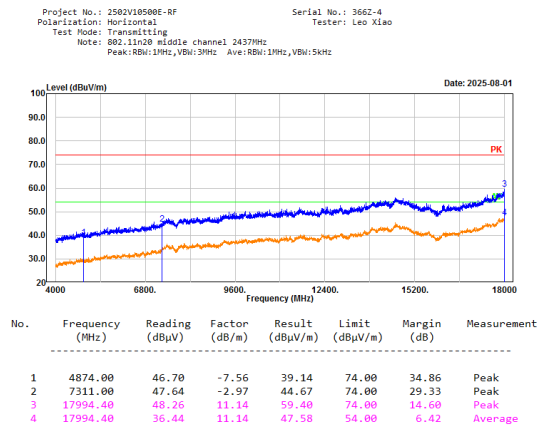
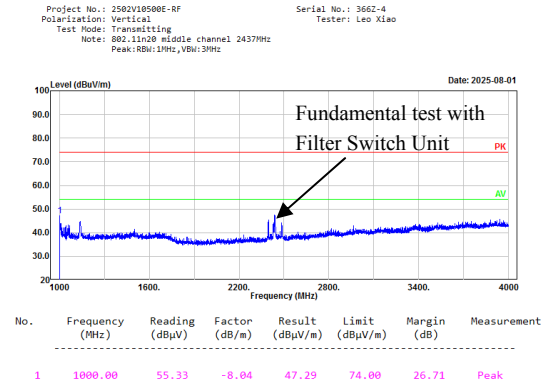


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4824.00	47.19	-7.53	39.66	74.00	34.34	Peak
2	7236.00	47.15	-3.30	43.85	74.00	30.15	Peak
3	17983.20	48.81	11.10	59.91	74.00	14.09	Peak
4	17983.20	36.39	11.10	47.49	54.00	6.51	Average

802.11n20 mode, Middle Channel, Horizontal



802.11n20 mode, Middle Channel, Vertical

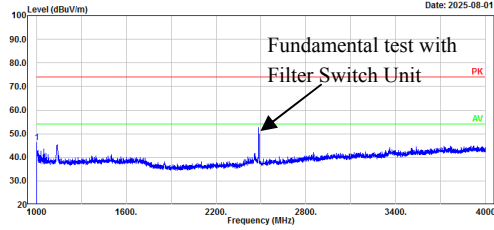


802.11n20 mode, High Channel, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak: RBW:1MHz, VBW:30Hz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



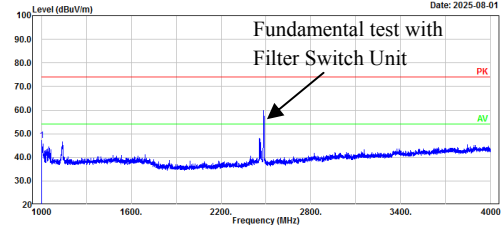
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1000.00	54.23	-8.04	46.19	74.00	27.81	Peak

802.11n20 mode, High Channel, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak: RBW:1MHz, VBW:30Hz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

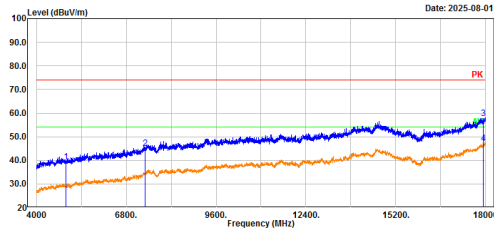


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1004.20	55.24	-8.04	47.20	74.00	26.80	Peak

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

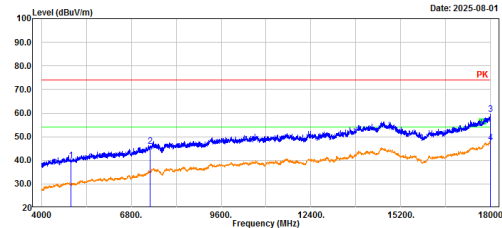


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	46.75	-7.49	39.26	74.00	34.74	Peak
2	7386.00	47.50	-2.45	45.05	74.00	28.95	Peak
3	17932.80	47.05	10.76	57.81	74.00	16.19	Peak
4	17932.80	36.27	10.76	47.03	54.00	6.97	Average

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5kHz

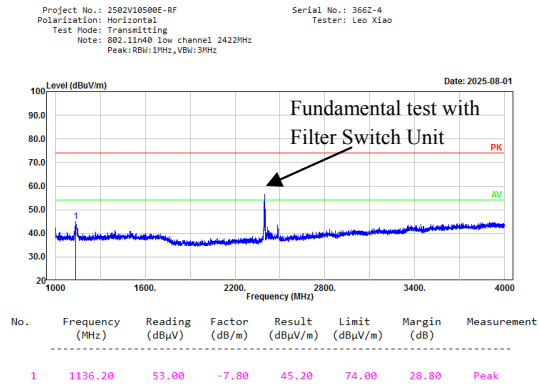
Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

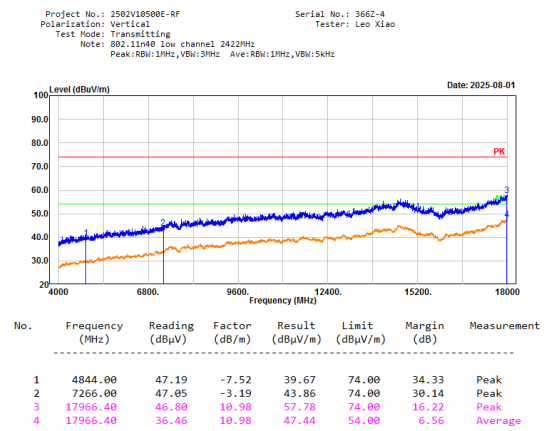
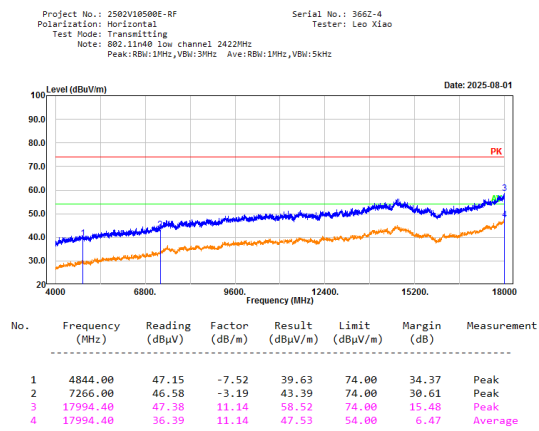
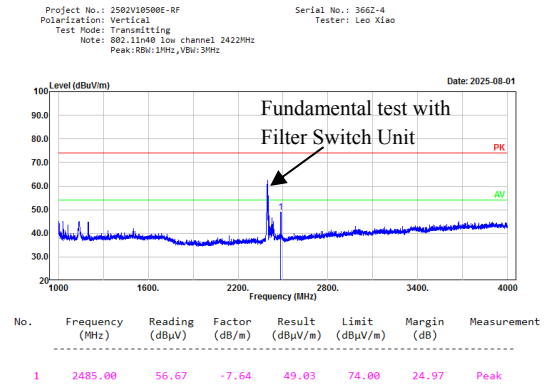


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	47.35	-7.49	39.86	74.00	34.14	Peak
2	7386.00	48.47	-2.45	46.02	74.00	27.98	Peak
3	17983.20	48.49	11.10	59.59	74.00	14.41	Peak
4	17983.20	36.31	11.10	47.41	54.00	6.59	Average

802.11n40 mode, Low Channel, Horizontal



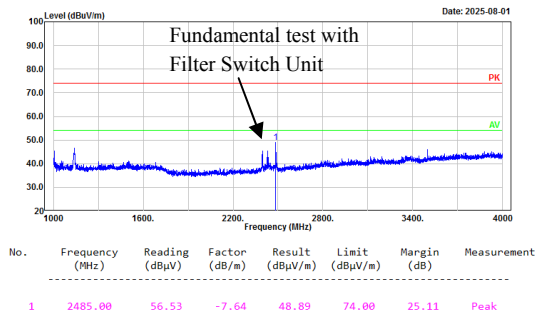
802.11n40 mode, Low Channel, Vertical



802.11n40 mode, Middle Channel, Horizontal

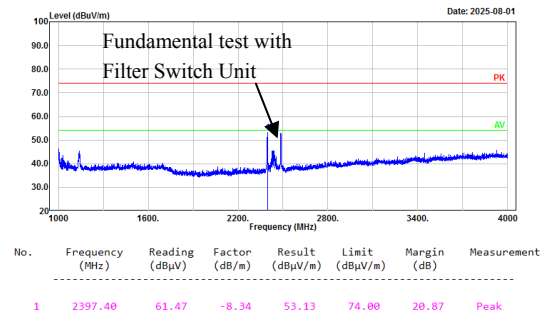
Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40 middle channel 2437MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

**802.11n40 mode, Middle Channel, Vertical**

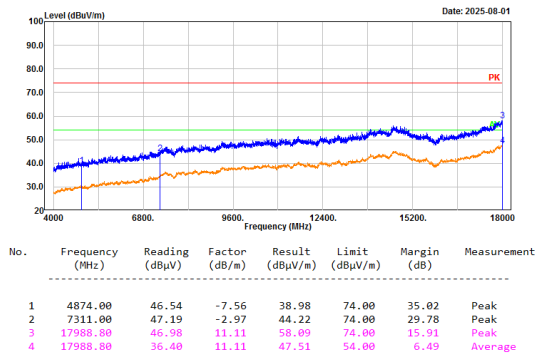
Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40 middle channel 2437MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao



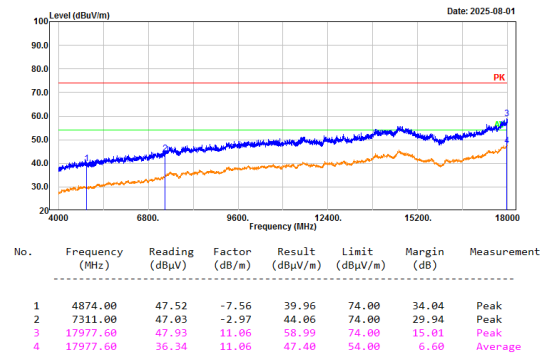
Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40 middle channel 2437MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao



Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40 middle channel 2437MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

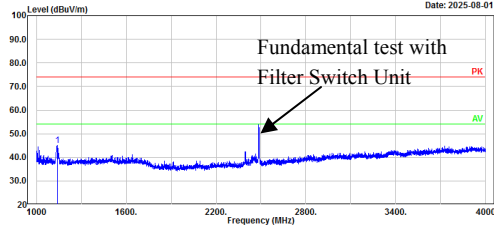


802.11n40 mode, High Channel, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40 high channel 2452MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



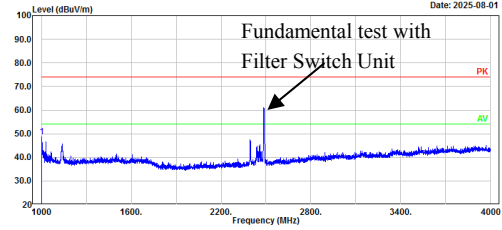
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1139.80	52.97	-7.80	45.17	74.00	28.83	Peak

802.11n40 mode, High Channel, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40 high channel 2452MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

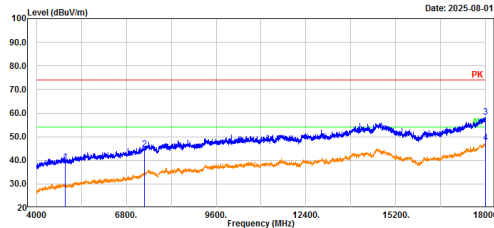


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1001.80	56.87	-8.04	48.83	74.00	25.17	Peak

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40 high channel 2452MHz
Peak: RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01

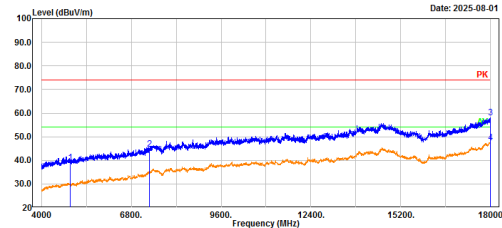


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4904.00	46.84	-7.56	39.28	74.00	34.72	Peak
2	7356.00	47.48	-2.64	44.84	74.00	29.16	Peak
3	17991.60	47.15	11.13	58.28	74.00	15.72	Peak
4	17991.60	36.44	11.13	47.57	54.00	6.43	Average

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40 high channel 2452MHz
Peak: RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4904.00	46.62	-7.56	39.06	74.00	34.94	Peak
2	7356.00	47.52	-2.64	44.88	74.00	29.12	Peak
3	17994.40	46.89	11.14	58.03	74.00	15.97	Peak
4	17994.40	36.41	11.14	47.55	54.00	6.45	Average

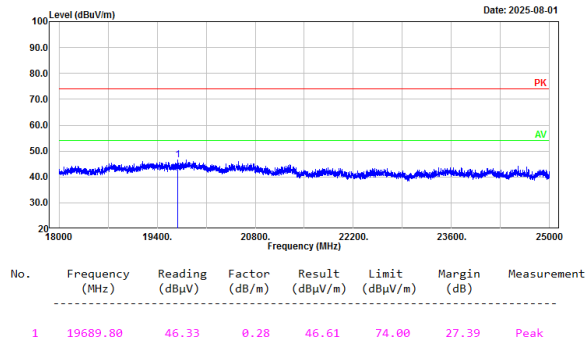
18-25GHz:

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

802.11b mode, High Channel, Horizontal

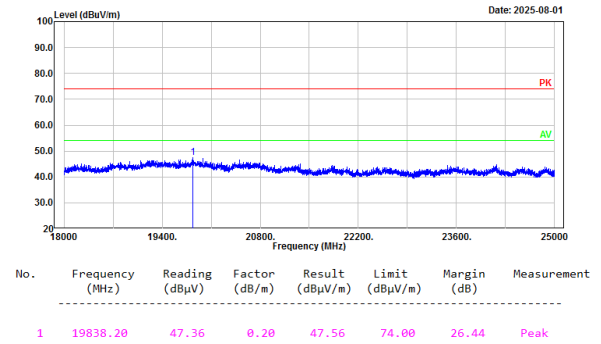
Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 2.4G WIFI
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

**802.11b mode, High Channel, Vertical**

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 2.4G WIFI
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 3662-4
Tester: Leo Xiao

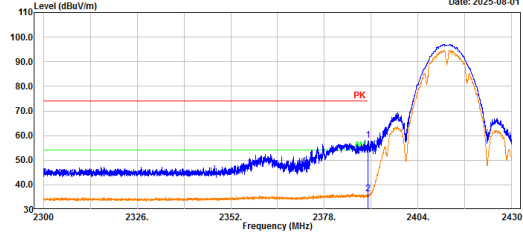


Bandedge:**802.11b mode, Low Channel, Bandedge, Horizontal**

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b low channel 2412MHz
Peak: RBW: 1MHz, VBW: 3MHz Ave: RBW: 1MHz, VBW: 5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



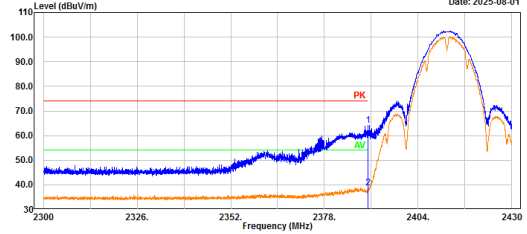
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	2390.00	58.65	-0.47	58.18	74.00	15.82	Peak
2	2390.00	36.75	-0.47	36.28	54.00	17.72	Average

802.11b mode, Low Channel, Bandedge, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b low channel 2412MHz
Peak: RBW: 1MHz, VBW: 3MHz Ave: RBW: 1MHz, VBW: 5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



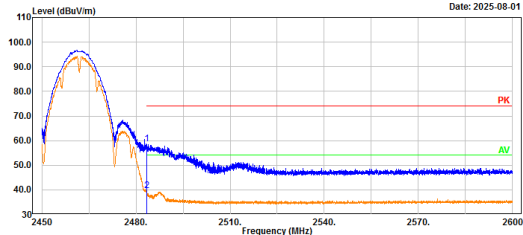
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	2390.00	64.55	-0.47	64.08	74.00	9.92	Peak
2	2390.00	39.20	-0.47	38.73	54.00	15.27	Average

802.11b mode, High Channel, Bandedge, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak: RBW: 1MHz, VBW: 3MHz Ave: RBW: 1MHz, VBW: 5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



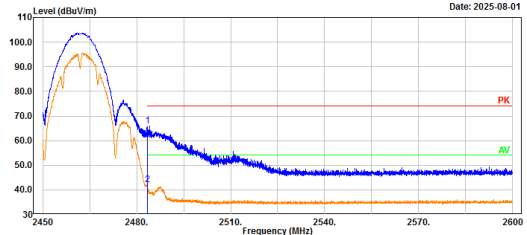
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	2483.50	58.99	-0.30	58.69	74.00	15.31	Peak
2	2483.50	40.07	-0.30	39.77	54.00	14.23	Average

802.11b mode, High Channel, Bandedge, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak: RBW: 1MHz, VBW: 3MHz Ave: RBW: 1MHz, VBW: 5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



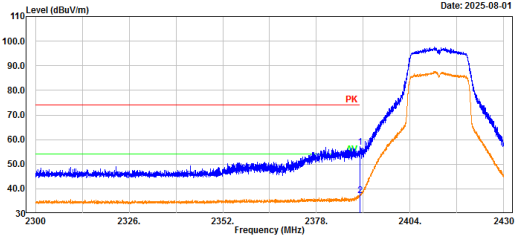
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	2483.50	66.13	-0.30	65.83	74.00	8.17	Peak
2	2483.50	42.51	-0.30	42.21	54.00	11.79	Average

802.11g mode, Low Channel, Bandedge, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



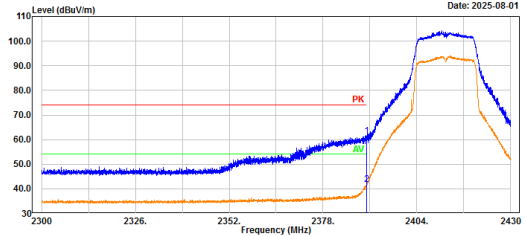
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	2390.00	57.47	-0.47	57.00	74.00	17.00	Peak
2	2390.00	37.60	-0.47	37.13	54.00	16.87	Average

802.11g mode, Low Channel, Bandedge, Vertical

Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



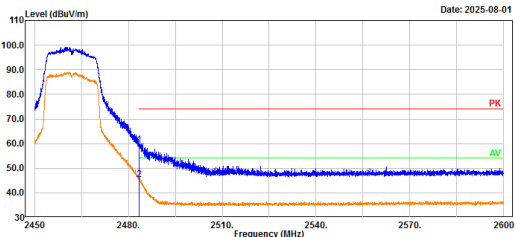
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	2390.00	61.82	-0.47	61.35	74.00	12.65	Peak
2	2390.00	42.29	-0.47	41.82	54.00	12.18	Average

802.11g mode, High Channel, Bandedge, Horizontal

Project No.: 2502V10500E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



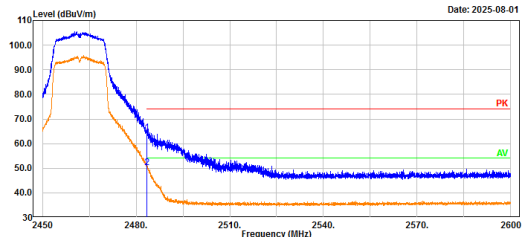
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	2483.50	59.93	-0.30	59.63	74.00	14.37	Peak
2	2483.50	45.75	-0.30	45.45	54.00	8.55	Average

802.11g mode, High Channel, Bandedge, Vertical

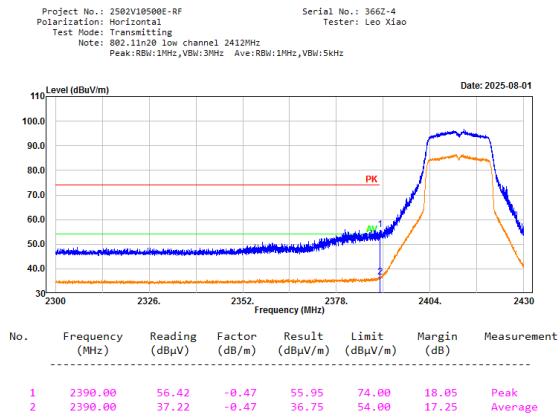
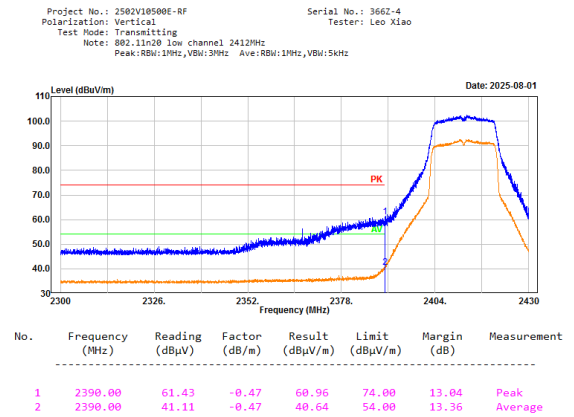
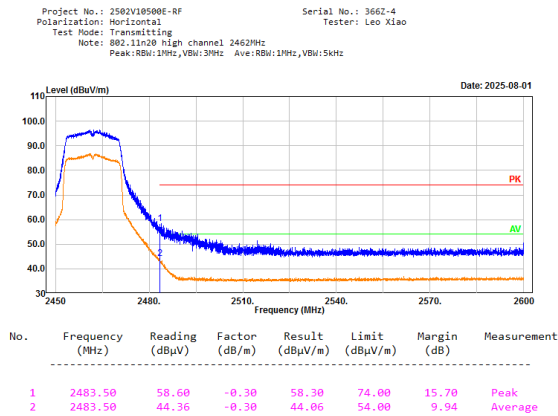
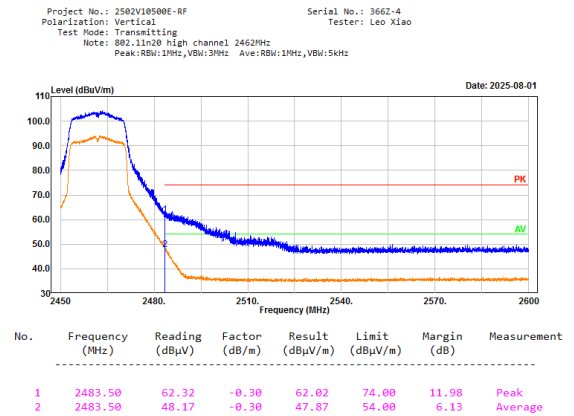
Project No.: 2502V10500E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5kHz

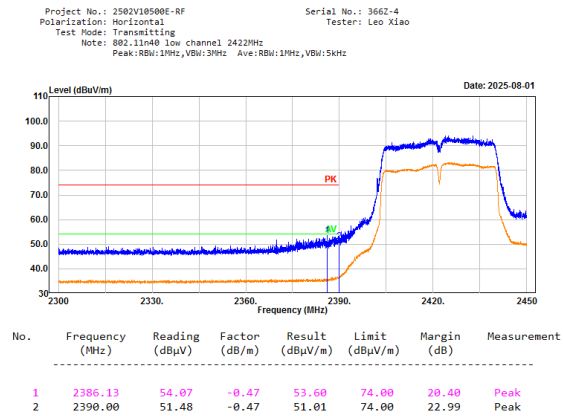
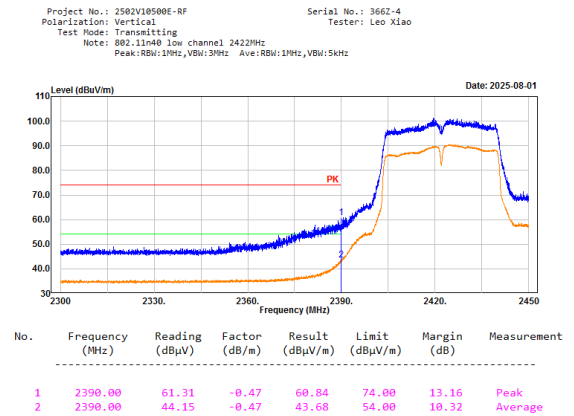
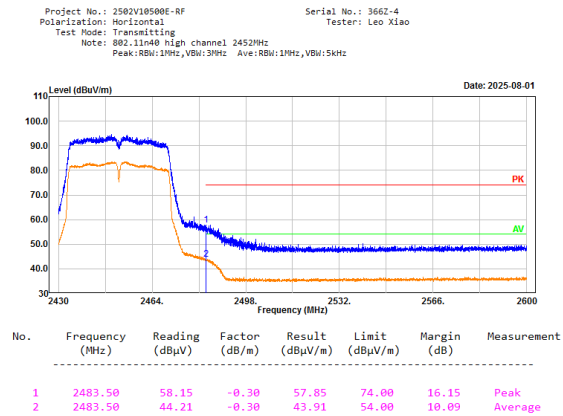
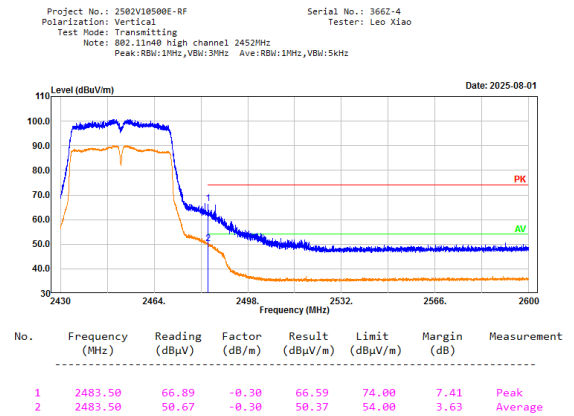
Serial No.: 3662-4
Tester: Leo Xiao

Date: 2025-08-01



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	2483.50	64.77	-0.30	64.47	74.00	9.53	Peak
2	2483.50	50.60	-0.30	50.30	54.00	3.70	Average

**802.11n20 mode, Low Channel, Bandedge,
Horizontal****802.11n20 mode, Low Channel, Bandedge,
Vertical****802.11n20 mode, High Channel, Bandedge,
Horizontal****802.11n20 mode, High Channel, Bandedge,
Vertical**

802.11n40 mode, Low Channel, Bandedge, Horizontal**802.11n40 mode, Low Channel, Bandedge, Vertical****802.11n40 mode, High Channel, Bandedge, Horizontal****802.11n40 mode, High Channel, Bandedge, Vertical**

5.3 6dB Emission Bandwidth

Test Information:

Serial No.:	366Z-5	Test Date:	2025/09/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.4	Relative Humidity: (%)	47	ATM Pressure: (kPa)	100.7
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Test Equipment List and Details:

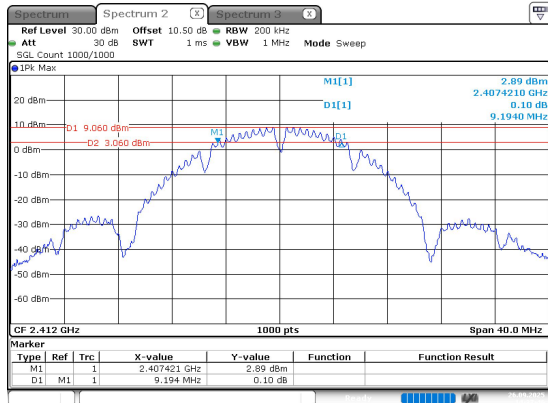
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2025/7/28	2026/7/27
Narda	Coaxial Attenuator	773-10	F-08-EM511	2025/6/6	2026/6/5

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

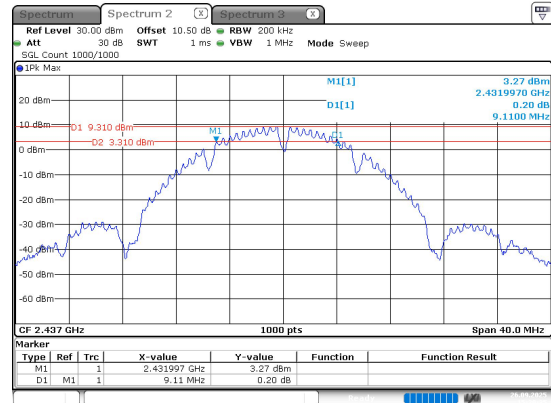
Test Data:

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	9.194	≥ 0.5	Pass
	2437	9.11	≥ 0.5	Pass
	2462	9.137	≥ 0.5	Pass
802.11g	2412	16.242	≥ 0.5	Pass
	2437	16.22	≥ 0.5	Pass
	2462	16	≥ 0.5	Pass
802.11n ht20	2412	17.287	≥ 0.5	Pass
	2437	17.455	≥ 0.5	Pass
	2462	17.053	≥ 0.5	Pass
802.11n ht40	2412	36.169	≥ 0.5	Pass
	2437	36.449	≥ 0.5	Pass
	2462	36.287	≥ 0.5	Pass

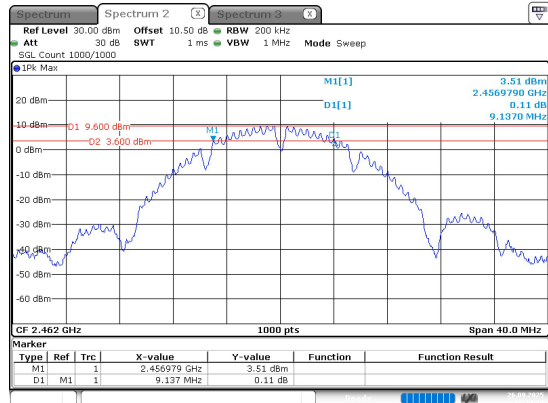
802.11b_2412MHz



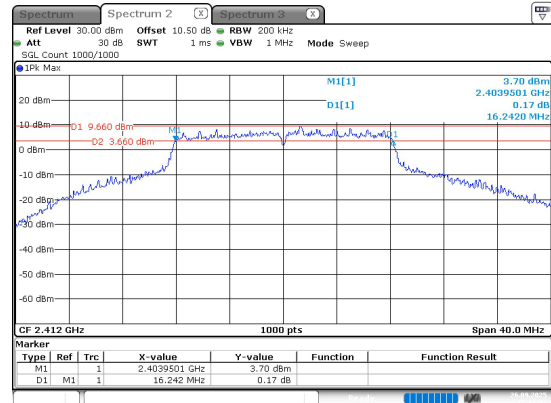
802.11b_2437MHz



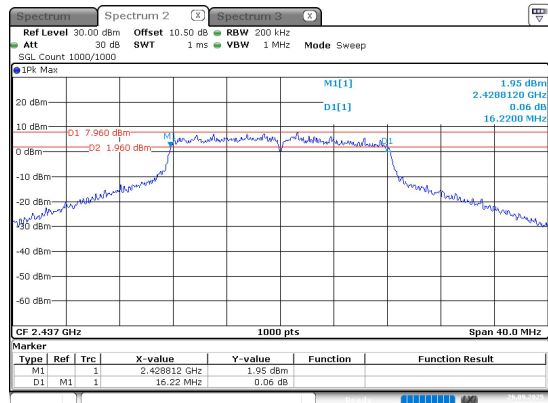
802.11b_2462MHz



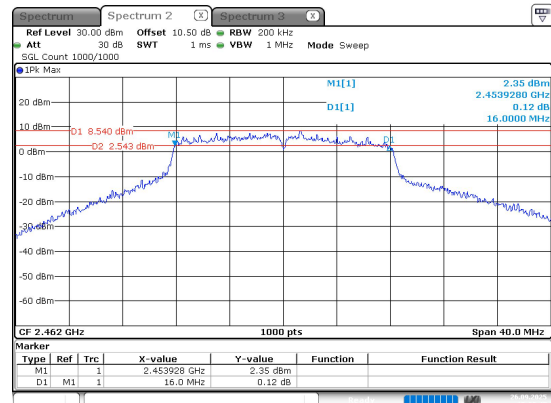
802.11g_2412MHz



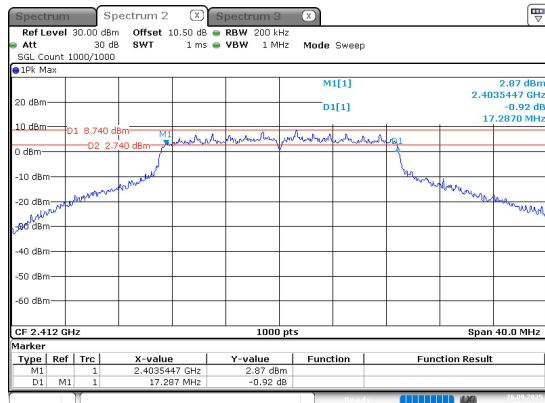
802.11g_2437MHz



802.11g_2462MHz

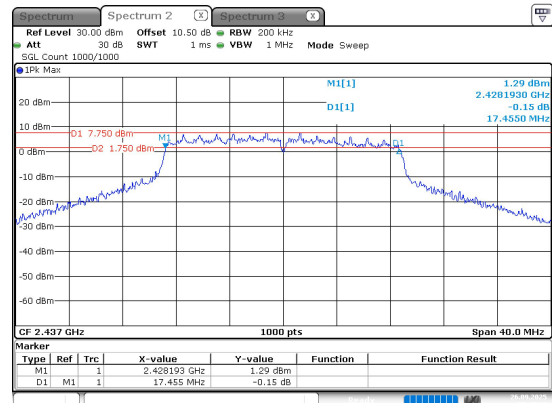


802.11n20_2412MHz



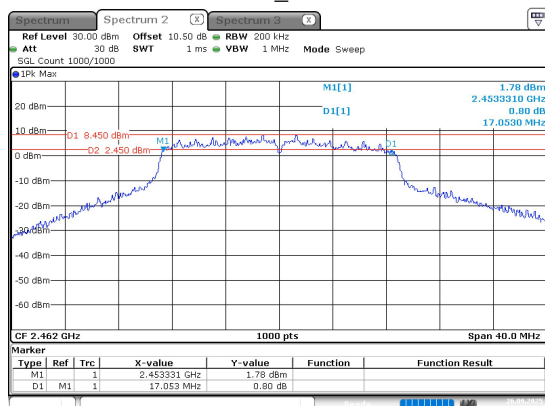
ProjectNo.:2502V10500E-RF Tester:Conor Fu
Date: 26.SEP.2025 15:41:21

802.11n20_2437MHz



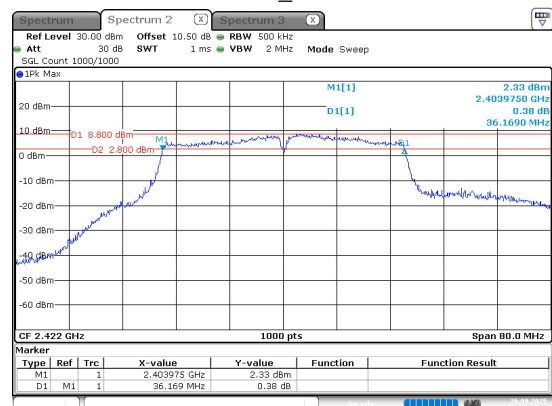
ProjectNo.:2502V10500E-RF Tester:Conor Fu
Date: 26.SEP.2025 15:45:19

802.11n20_2462MHz



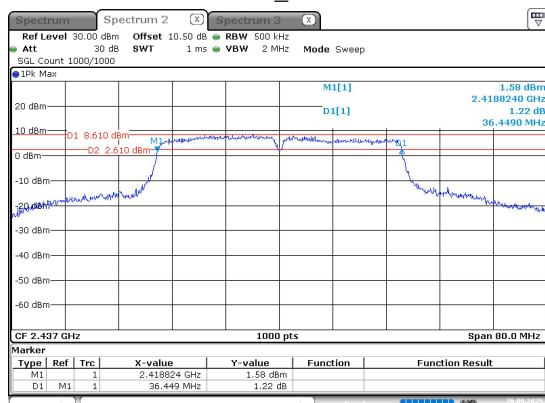
ProjectNo.:2502V10500E-RF Tester:Conor Fu
Date: 26.SEP.2025 15:49:25

802.11n40_2422MHz



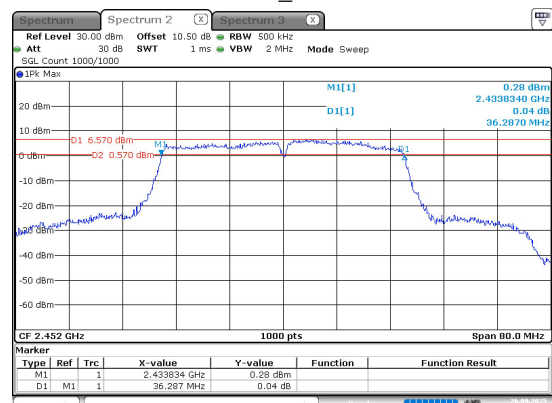
ProjectNo.:2502V10500E-RF Tester:Conor Fu
Date: 26.SEP.2025 15:52:30

802.11n40_2437MHz



ProjectNo.:2502V10500E-RF Tester:Conor Fu
Date: 26.SEP.2025 15:59:38

802.11n40_2452MHz



ProjectNo.:2502V10500E-RF Tester:Conor Fu
Date: 26.SEP.2025 16:03:23

5.4 Spot Check With Maximum Conducted Output Power

Test Information:

Serial No.:	366Z-5	Test Date:	2025/9/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.4	Relative Humidity: (%)	47	ATM Pressure: (kPa)	100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2025/6/11	2026/6/10
Narda	Coaxial Attenuator	773-10	F-08-EM511	2025/6/6	2026/6/5

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

Test Data:

Test Modes	Test Channel	Test Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Limit (dBm)
802.11b	Lowest	2412	17.56	30
	Middle	2437	17.22	30
	Highest	2462	17.62	30
Maximum EIRP	18.22	dBm		
EIRP Limit for RSS-247:36dBm				

Note:

The Spot Check data were similar to the original data.

5.5 Power Spectral Density

Test Information:

Serial No.:	366Z-5	Test Date:	2025/10/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1	Relative Humidity: (%)	46	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2025/7/28	2026/7/27
Narda	Coaxial Attenuator	773-10	F-08-EM511	2025/6/6	2026/6/5

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

Test Data:

Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/5kHz)	Duty cycle Factor(dB)	Result (dBm/5kHz)	Limit (dBm/3kHz)
802.11b	2412	-14.91	0.00	-14.91	8.00
	2437	-14.63	0.00	-14.63	8.00
	2462	-14.42	0.00	-14.42	8.00
802.11g	2412	-16.82	0.10	-16.72	8.00
	2437	-18.39	0.10	-18.29	8.00
	2462	-17.07	0.10	-16.97	8.00
802.11n ht20	2412	-17.83	0.00	-17.83	8.00
	2437	-18.37	0.00	-18.37	8.00
	2462	-17.29	0.00	-17.29	8.00
802.11n ht40	2422	-20.15	0.24	-19.91	8.00
	2437	-20.88	0.24	-20.64	8.00
	2452	-22.4	0.24	-22.16	8.00