

Vesync (US) Corporation

TEST REPORT

SCOPE OF WORK

FCC TESTING—LAP-C311S-WUSR, LAP-C311S-WCAR, LAP-C311S-XXXXX(where "X" may be blank, number)

REPORT NUMBER

260428090SZN-002

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Intertek Report No.: 260428090SZN-002

Vesync (US) CorporationApplication
For
Certification**FCC ID: 2AB22-LAPC311S****Air Purifier****Model: LAP-C311S-WUSR,
LAP-C311S-WCAR, LAP-C311S-XXXXX(where "X" may be blank, number)
2.4GHz Wi-Fi Transceiver**

Report No.: 260428090SZN-002

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-24]

Prepared and Checked by:**Approved by:****Tenet Cao
Assistant Engineer**

**Johnny Wang
Project Engineer
Date: 20 May 2026**

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Intertek Testing Services Shenzhen Ltd. Longhua Branch

101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China.

Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751

MEASUREMENT/TECHNICAL REPORT

This report concerns (check one) Original Grant ☒ Class II Change ☐

Equipment Type: DTS - Part 15 Digital Transmission Systems (Wi-Fi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes ☐ No ☒

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes ☐ No ☒

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-24] Edition] provision.

Report prepared by:

Tenet Cao

Intertek Testing Services Shenzhen Ltd. Longhua Branch

101, 201, Building B, No. 308 Wuhe Avenue,
Zhangkengjing Community, GuanHu Subdistrict, LongHua
District, Shenzhen, P.R. China.

Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6661

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1.0 Summary of Test Results

Applicant: Vesync (US) Corporation

Applicant Address: 1775 FLIGHT WAY, SUITE 150 TUSTIN, CA 92782,USA

Manufacturer: Vesync (US) Corporation

Manufacturer Address: 1775 FLIGHT WAY, SUITE 150 TUSTIN, CA 92782,USA

Model: LAP-C311S-WUSR

FCC ID: 2AB22-LAPC311S

TEST ITEM	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d)	Pass
AC Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is an Air Purifier, LAP-C311S-WUSR with Wi-Fi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 2422-2452MHz for 802.11n-HT40, 7 channels with 5MHz channel spacing.

The EUT is powered by Adapter with AC100-240V. For more detailed features description, please refer to the user's manual.

Type of Modulation: BPSK, QPSK, 16QAM, 64QAM for OFDM; CCK, DQPSK, DBPSK for DSSS.

Antenna Type: Integral antenna

Antenna Gain: 1.2dBi (This information is provided by applicant, and the applicant is responsible for the authenticity of the provided information.)

Sample ID: Z260428090-001

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

The Model: LAP-C311S-WCAR, LAP-C311S-XXXXX(where "X" may be blank, number) are the same as the Model: LAP-C311S-WUSR in hardware aspect. The difference in model number serves as marketing strategy.

2.2 Related Submittal(s) Grants

This is an application for certification of transceiver for the Air Purifier which has WIFI function. Other digital functions were reported in the verification report: 260428090SZN-001.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2020) and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

2.4 Test Facility

The Semi-anechoic chamber and shielded room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by AC120V during the test.

On 802.11b/g/n-HT20/ n-HT40 mode, only one antenna is used, and all data rate were tested and only the worst case data is shown in the report.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The EUT and transmitting antenna was centered on the turntable.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Test software: EspRFTTestTool_v3.6

Version: V3.6

3.3 Special Accessories

N/A.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Measurement Uncertainty	Uncertainty
Conducted Emission Test	±2.80dB
RF power, conducted, PSD	±0.16dB
Spurious emissions, conducted	±0.21dB
All emissions, radiated(30MHz~1GHz)	±2.64dB
All emissions, radiated(1GHz~6GHz)	±2.40dB
All emissions, radiated(>6GHz)	±2.52dB
Temperature	±0.5°C
All emissions, radiated(9KHz~30MHz)	±6dB
Occupied bandwidth	±4.7dB

3.5 Equipment Modification

Any modifications installed previous to testing by Vesync (US) Corporation will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.6 Support Equipment List and Description

Description	Manufacturer	Model No.
Laptop (Provided by Intertek)	DELL	Latitude 3480
AC ADAPTER (Provided by applicant)	GangQi	Model: GQ36-240150-BU Input:100-240V~ 50/60Hz 1.0A Max Output: 24V=1.5A, 36.0W

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

4.0 Measurement Results

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter has a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

IEEE 802.11b (Antenna Gain = 1.2dBi) (CCK, 1Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	19.73	93.97
Middle Channel: 2437	20.09	102.09
High Channel: 2462	20.06	101.39

IEEE 802.11g (Antenna Gain = 1.2dBi) (16QAM, 6Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	22.75	188.36
Middle Channel: 2437	22.57	180.72
High Channel: 2462	22.15	164.06

IEEE 802.11n-HT20 (Antenna Gain = 1.2dBi) (64QAM, 6Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	21.71	148.25
Middle Channel: 2437	21.69	147.57
High Channel: 2462	21.44	139.32

IEEE 802.11n-HT40 (Antenna Gain = 1.2dBi) (64QAM, 13.5Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2422	21.41	138.36
Middle Channel: 2437	21.44	139.32
High Channel: 2452	21.25	133.35

Cable loss: 1.0 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT max. output level = 22.75dBm

EUT max. E.I.R.P = 22.75dBm +1.2dBi = 23.95dBm = 248.31mW

For RF Exposure, the information is saved with filename: RF exposure.pdf.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a) (2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074 D01 v05r02. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

Test Result: Please refer the Appendix of 260428090SZN-002 Appendix A..

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074 D01 v05r02.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/3 kHz.

Test Result: Please refer the Appendix of 260428090SZN-002 Appendix D.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

4.4 Out of Band Conducted Emissions, FCC Rule 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. The Measurement Procedure was set according to the FCC KDB 558074 D01 v05r02.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for 802.11b and 6Mbps for 802.11g and 6Mbps for 802.11n-HT20 and 13.5Mbps for 802.11n-HT40.

The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

The test plots are attached as below.

Test Result: Please refer the Appendix of 260428090SZN-002 Appendix E and Appendix F.

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Model: LAP-C311S-WUSR

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

☒ Not required, since all emissions are more than 20dB below fundamental

☐ See attached data sheet

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Applicant: Vesync (US) Corporation

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Model: LAP-C311S-WUSR

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB/m
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB/m}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

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Model: LAP-C311S-WUSR

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission
at 2390.000MHz
is passed by 3.1dB margin.

All the modes have been tested, and the report only presents the data of the worst modes for OFDM and DSSS. For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

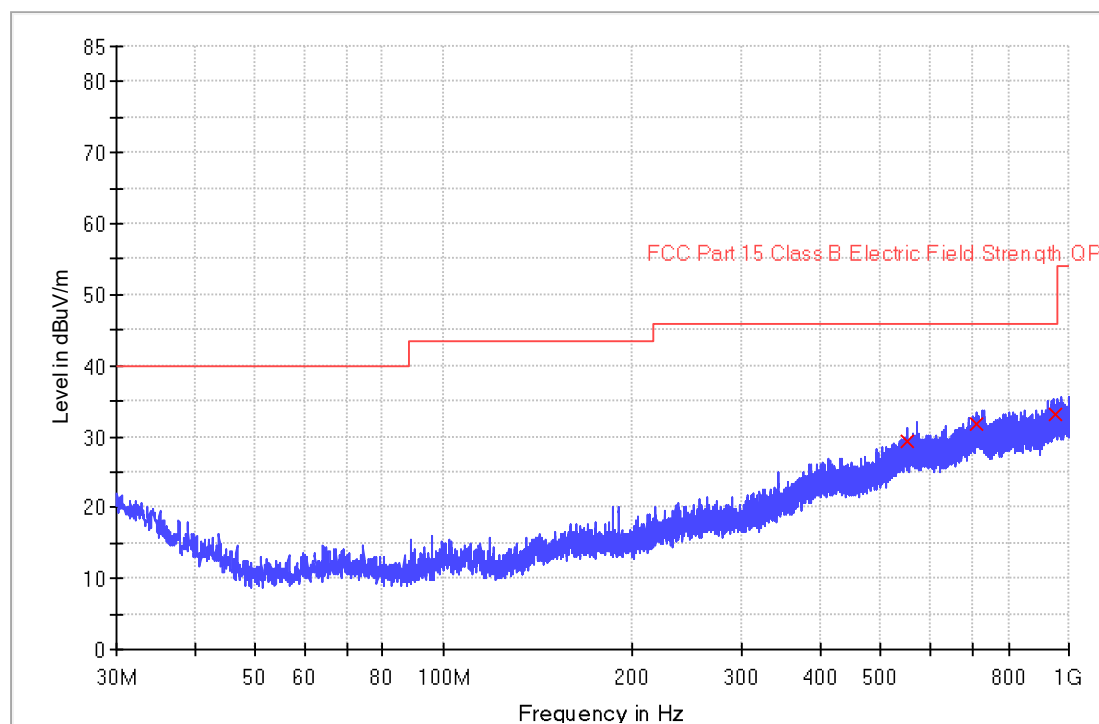
Worst Case Operating Mode:

Model: LAP-C311S-WUSR

2.4G WIFI Link

ANT Polarity: Horizontal

FCC Part 15



Frequency (MHz)	Quasi Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK dBμV/m)
553.379667	29.3	1000.0	120.000	H	29.2	16.7	46.0
713.300333	31.8	1000.0	120.000	H	31.1	14.2	46.0
952.146667	33.1	1000.0	120.000	H	34.1	12.9	46.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Limit Line (dBμV/m) – Level (dBμV/m)

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

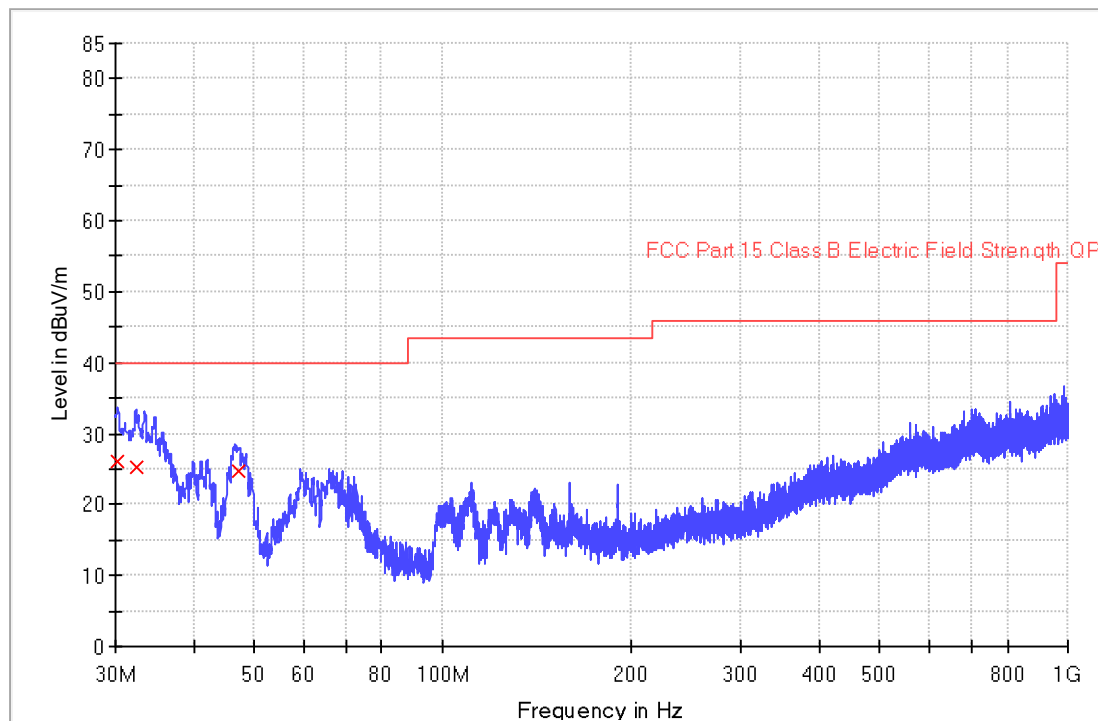
Worst Case Operating Mode:

Model: LAP-C311S-WUSR

2.4G WIFI Link

ANT Polarity: Vertical

FCC Part 15



Frequency (MHz)	Quasi Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.194000	26.1	1000.0	120.000	V	22.7	13.9	40.0
32.328000	25.3	1000.0	120.000	V	21.3	14.7	40.0
47.298333	24.8	1000.0	120.000	V	14.2	15.2	40.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Limit Line (dBμV/m) – Level (dBμV/m)

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Worst Case Operating Mode:

Model: LAP-C311S-WUSR

Transmitting (802.11b-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*2390.000	65.2	33.1	27.4	59.5	74.0	-14.5
Horizontal	*4824.000	30.5	30.6	32.7	32.6	74.0	-41.4

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*2390.000	55.1	33.1	27.4	49.4	54.0	-4.6
Horizontal	*4824.000	20.5	30.6	32.7	22.6	54.0	-31.4

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Worst Case Operating Mode:

Model: LAP-C311S-WUSR

Transmitting (802.11b-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4874.000	35.1	33.1	27.8	29.8	74.0	-44.2
Horizontal	*7311.000	33.8	30.5	32.9	36.2	74.0	-37.8

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4874.000	25.3	33.1	27.8	20.0	54.0	-34.0
Horizontal	*7311.000	25.6	30.5	32.9	28.0	54.0	-26.0

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Worst Case Operating Mode:

Model: LAP-C311S-WUSR

Transmitting (802.11b-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*2483.500	64.7	33.1	27.8	59.4	74.0	-14.6
Horizontal	*4924.000	35.8	36.5	29.3	28.6	74.0	-45.4
Horizontal	*7386.000	30.4	30.9	37.3	36.8	74.0	-37.2

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*2483.500	54.3	33.1	27.8	49.0	54.0	-5.0
Horizontal	*4924.000	27.5	36.5	29.3	20.3	54.0	-33.7
Horizontal	*7386.000	21.9	30.9	37.3	28.3	54.0	-25.7

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Worst Case Operating Mode:

Model: LAP-C311S-WUSR

Transmitting (802.11g-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*2390.000	68.5	33.1	27.4	62.8	74.0	-11.2
Horizontal	*4824.000	30.2	30.6	32.7	32.3	74.0	-41.7

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*2390.000	56.6	33.1	27.4	50.9	54.0	-3.1
Horizontal	*4824.000	20.5	30.6	32.7	22.6	54.0	-31.4

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Worst Case Operating Mode:

Model: LAP-C311S-WUSR

Transmitting (802.11g-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4874.000	34.3	33.1	27.8	29.0	74.0	-45.0
Horizontal	*7311.000	34.6	30.5	32.9	37.0	74.0	-37.0

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4874.000	25.0	33.1	27.8	19.7	54.0	-34.3
Horizontal	*7311.000	24.3	30.5	32.9	26.7	54.0	-27.3

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Worst Case Operating Mode:

Model: LAP-C311S-WUSR

Transmitting (802.11g-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*2483.500	65.2	33.1	27.8	60.0	74.0	-14.1
Horizontal	*4924.000	35.9	36.5	29.3	28.7	74.0	-45.3
Horizontal	*7386.000	31.3	30.9	37.3	37.7	74.0	-36.3

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*2483.500	55.4	33.1	27.8	50.1	54.0	-3.9
Horizontal	*4924.000	27.2	36.5	29.3	20.0	54.0	-34.0
Horizontal	*7386.000	21.6	30.9	37.3	28.0	54.0	-26.0

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

4.9 Conducted Emission

Worst Case Conducted Emission
at 0.178000MHz
is passed by 9.6dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: conducted photos.pdf.

Applicant: Vesync (US) Corporation

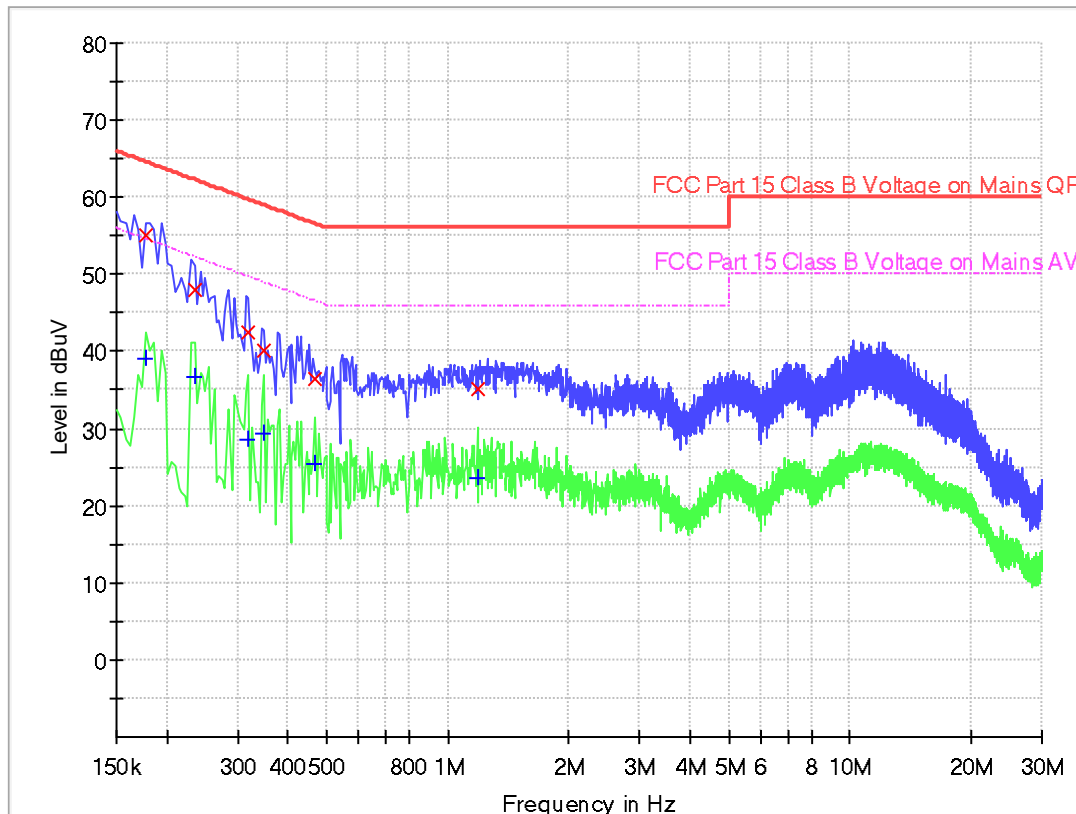
Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

Phase: Live

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.178000	55.0	9.000	L1	9.8	9.6	64.6
0.234000	48.0	9.000	L1	9.8	14.3	62.3
0.318000	42.5	9.000	L1	9.8	17.3	59.8
0.350000	40.2	9.000	L1	9.8	18.8	59.0
0.466000	36.4	9.000	L1	9.8	20.2	56.6
1.182000	35.0	9.000	L1	9.8	21.0	56.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.178000	39.0	9.000	L1	9.8	15.6	54.6
0.234000	36.6	9.000	L1	9.8	15.7	52.3
0.318000	28.6	9.000	L1	9.8	21.2	49.8
0.350000	29.4	9.000	L1	9.8	19.6	49.0
0.466000	25.4	9.000	L1	9.8	21.2	46.6
1.182000	23.6	9.000	L1	9.8	22.4	46.0

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBμV) – Level (dBμV)

Applicant: Vesync (US) Corporation

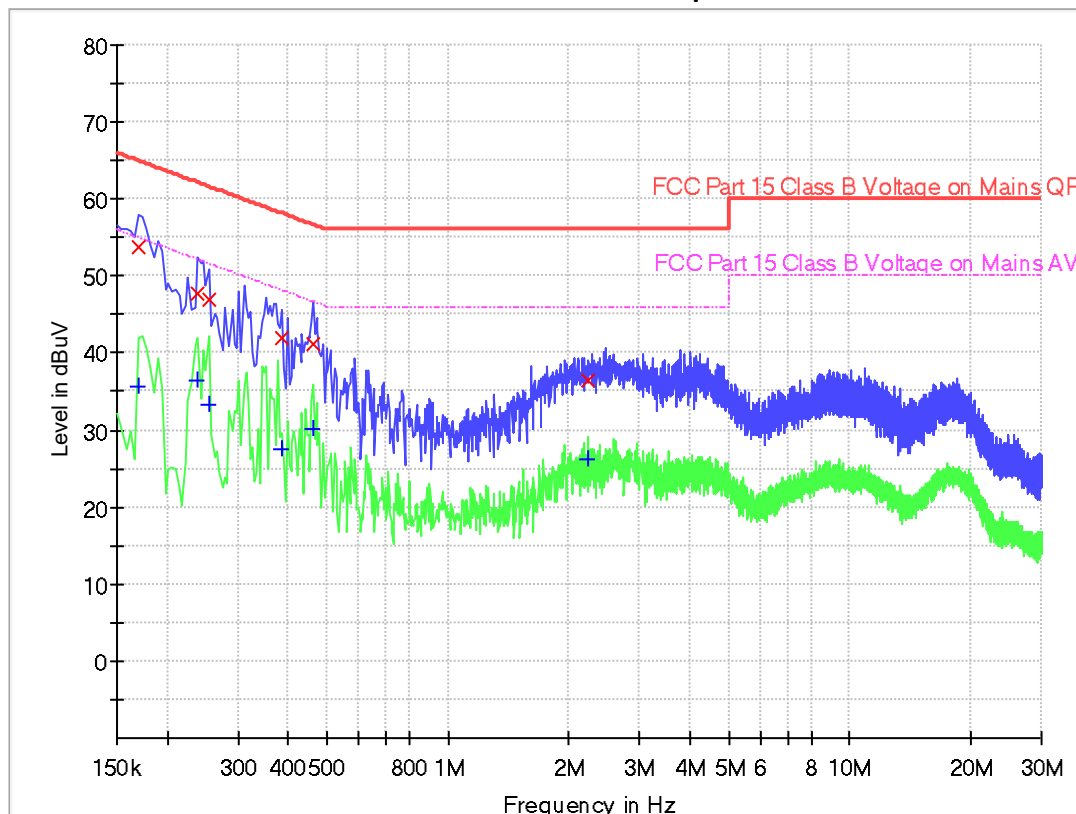
Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

Phase: Neutral

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.170000	53.9	9.000	N	9.7	11.1	65.0
0.238000	47.7	9.000	N	9.7	14.5	62.2
0.254000	46.9	9.000	N	9.7	14.7	61.6
0.386000	41.8	9.000	N	9.7	16.3	58.1
0.462000	41.3	9.000	N	9.7	15.4	56.7
2.238000	36.4	9.000	N	9.8	19.6	56.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.170000	35.6	9.000	N	9.7	19.4	55.0
0.238000	36.5	9.000	N	9.7	15.7	52.2
0.254000	33.2	9.000	N	9.7	18.4	51.6
0.386000	27.6	9.000	N	9.7	20.5	48.1
0.462000	30.0	9.000	N	9.7	16.7	46.7
2.238000	26.3	9.000	N	9.8	19.7	46.0

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBμV) – Level (dBμV)

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

- ☐ Not required - No digital part
- ☐ Test results are attached
- ☒ Included in the separated report.

Applicant: Vesync (US) Corporation

Date of Test: 28 April 2026

Model: LAP-C311S-WUSR

4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	2026-04-13	2027-04-13
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	2026-04-13	2027-04-13
SZ061-13	BiConiLog Antenna	ETS	3142E	00217919	2025-05-29	2028-05-29
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2024-05-05	2027-05-05
SZ185-03	EMI Receiver	R&S	ESR7	101975	2026-04-10	2027-04-10
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	2025-09-11	2028-09-11
SZ061-08	Double - Ridged Waveguide Horn Antenna	ETS	3115	00092346	2024-09-13	2027-09-13
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	2025-12-01	2026-12-01
SZ181-08	Microwave System Amplifier	keysight	83017A	MY57280108	2025-07-20	2026-07-30
SZ188-05	Anechoic Chamber	ETS	FACT 3-2.0	CT001880-Q13914102	2025-06-18	2028-06-18
SZ062-02	RF Cable	RADIAL	RG 213U	--	2025-11-01	2026-11-01
SZ062-05	RF Cable	RADIAL	0.04-26.5GHz	0833254	2025-11-01	2026-11-01
SZ062-12	RF Cable	RADIAL	0.04-26.5GHz	083387	2025-11-01	2026-11-01
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	2025-06-30	2026-06-30
SZ187-01	Two-Line V-Network	R&S	ENV216	100073	2025-10-27	2026-10-27
SZ188-03	Shielding Room	ETS	RFD-100	4100	2022-12-20	2027-12-20
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	015	2026-04-13	2027-04-13
SZ062-16	RF Cable	HUBER+SUHNER	CBL2-BN-1m	110127-2231000	2025-06-30	2026-06-30

***** End of Report*****