

TREND MAKERS LLC

TEST REPORT

SCOPE OF WORK

FCC TESTING-USB-03

REPORT NUMBER

240906006SZN-003

ISSUE DATE

07 November 2024

[REVISED DATE]

[-----]

PAGES

24

DOCUMENT CONTROL NUMBER

FCC 15C_Tx_b

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RF TEST REPORT

Report No. : 240906006SZN-003

Product : Flood Light with Wifi Amplifier
Speaker and Camera

Model No. : ISB-03

Brand Name : i

FCC ID : 2A88H-0033052280

Applicant: TREND MAKERS LLC
2113 Lewis Turner Boulevard Suite 100 Fort Walton
Beach, FL 32547, USA

**Test Method/
Standard:** FCC Part 15 Subpart E;
KDB 789033 D02 v02r01;
ANSI C63.10-2013

Test By: Intertek Testing Services Shenzhen Ltd. Longhua Branch
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Date: 07 November 2024

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Summary of Tests

FCC Parts	Test	Section	Results
15.203	Antenna Requirement	1.3	Pass
15.407 a (1)/(3)	Maximum output power test	3	Pass
15.407 a (1)/(3)	Power Spectrum Density test	4	Pass
15.407 e	6dB Bandwidth	5	Pass
15.407 b, 15.205, 15.209	Radiated spurious emission test	6	Pass
15.207	AC line conducted emission test	7	Pass
15.407 g	Frequency Stability	8	Pass

1. General information

1.1 Identification of the EUT

Product: Flood Light with **Wifi Amplifier Speaker and Camera**

Model No.: ISB-03

Type of Device: Slave device

Nominal Channel Bandwidth: 802.11a/n-HT20(20MHz), 802.11n-HT40(40MHz)

Frequency range: 5725MHz~5850MHz

Channel Number and
Operating Frequency: 5 channels for 5745 MHz ~ 5825 MHz (802.11a/n20);
2 channels for 5755 MHz ~ 5795 MHz (802.11n40);

Modulation: 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)
802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)

Rated Power: DC5V, 2A by USB port

Test Date(s): 09 September 2024 to 27 September 2024

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Note 2: When determining the test conclusion, the Measurement Uncertainty of test has been considered.

1.2 Additional information about the EUT

The equipment under test (EUT) is a Flood Light with **Wifi Amplifier Speaker and Camera** with 2.4G WIFI function operating in 2412-2462MHz and 5G WIFI function operating in 5725MHz~5825MHz. 2.4G BT function operating in 2402-2480MHz, For more detail information pls. refer to the user manual.

For more detail features, please refer to User's description as file name "descri.pdf".

Related Submittal(s) Grants

This is an application for certification of U-NII device (5GHz Wi-Fi transmitter portion).

For the FCC SDOC was tested and demonstrated in report 240906006SZN-004.

For the 2.4GHz BT function was tested and demonstrated in report 240906006SZN-001.

For the 2.4GHz WIFI function was tested and demonstrated in report 240906006SZN-002.

1.3 Antenna description (15.203)

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

Antenna Gain: 3.41dBi Max for 5G WIFI. (This information is provided by applicant, and the applicant is responsible for the authenticity of the provided information.)

For electronic filing, Antenna specifications is refer to filename: Antenna specification. pdf.
Antenna photos is refer to filename: description. pdf.

1.4 Peripherals equipment

Description	Manufacturer	Remark
Laptop (Provided by Intertek)	DELL	Latitude 3480
Mobile phone (Provided by Intertek)	SAMSUNG	S7
TF Card (Provided by Intertek)	Kingston	C10, 32GB
Adaptor	SHENZHEN TIAN YIN ELECTRONICS CO., LTD.	Model: TPQ-228F120200UW01 Input: AC 100-240V, 0.8A Output: DC 12V,2.0A (Provided by Applicant)

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 E, Section 15.203, 15.207, 15.209, 15.407 and ANSI C63.10/2013, method of measurement: KDB 789033.

The test of radiated measurements according to FCC Part 15 Section 15.33(a) had been conducted and the field strength of this frequency band was all meet limit requirement, thus we evaluate the EUT pass the specified test.

The AC power conducted emissions was investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz (15.207 paragraph).

Radiated emissions were investigated cover the frequency range from 9KHz to 30MHz using a receiver RBW of 9kHz, from 30 MHz to 1000 MHz using a receiver RBW of 120 kHz record QP reading, and the frequency over 1 GHz using a spectrum analyzer RBW of 1 MHz, VBW of 3MHz, Detector=Peak record for Peak reading, RBW of 1 MHz, VBW of 3MHz, Detector=RMS record for Average reading recorded on the report.

The EUT setup configurations please refer to the photo of radiated setup photos.pdf & conducted setup photos.pdf.

2.2 Operation mode

The EUT was supplied by and it was run in TX mode that was controlled by client provided RF testing program.

The EUT was transmitted continuously during the test. The worst case test result was showed in the report.

With individual verifying, the maximum output power was found at 6 Mbps data rate for 802.11a mode, 6.5 Mbps data rate for 802.11n-HT20 mode, 13.5 Mbps data rate for 802.11n-HT40 mode. The final tests were executed under these conditions and recorded in this report individually.

2.3 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.

Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer 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 customer and is going to be fixed on the firmware of the final end product.

Test software: SecureCRT v01

3. Maximum Output Power test (FCC 15.407)

3.1 Operating environment

Temperature: 25 °C
Relative Humidity: 55 %
Atmospheric Pressure: 1011 hPa

3.2 Test setup & procedure

The power output per FCC §15.407(a) was measured on the EUT using a 50 ohm SMA cable connected to Power Meter and the measurement method refer to 789033 D02. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

3.3 Limit

Frequency range (MHz)	Max Conducted TX Power	Max EIRP
5725~5850	30dBm (1W)	4W (36dBm) with 6dBi antenna

Remark: 1) *Where B is the 26dB emission Bandwidth in MHz.
2) The device was declared as Slave device.
3) Tx Power Reduction (dBm-by-dBi) required when antenna exceeds 6dBi.

3.4 Measured data of Maximum Output Power test results

Max Conducted TX Power

The more detail please refer to "Appendix of 240906006SZN-003" Appendix B.

Max EIRP

The more detail please refer to "Appendix of 240906006SZN-003" Appendix B1.

4. Power Spectrum Density test (FCC 15.407)

4.1 Operating environment

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1013 hPa

4.2 Test setup & procedure

Method of Measurement:

The power spectrum density per FCC §15.407(a) was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set at 1MHz/500KHz, the video bandwidth set at 3 MHz/2MHz (measurement method refer to KDB 789033 D02). Power spectrum density was read directly and cable loss reading to obtain power at the EUT antenna terminals.

4.3 Limit

Frequency range(MHz)	Max Conducted Power Spectral Density
5725~5850	30dBm/500KHz

Remark: 1) The device was declared as Slave device.
2) Tx Power Reduction (dBm-by-dBi) required when antenna exceeds 6dBi.

4.4 Measured data of Power Spectrum Density test results

The more detail please refer to "Appendix of 240906006SZN-003" Appendix C.

5. Minimum 6 dB RF Bandwidth (FCC 15.407)

5.1 Operating environment

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1011 hPa

5.2 Test setup & procedure

The Minimum 6 dB RF Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set at 100KHz, and set the video bandwidth (VBW) $\geq 3 \times$ RBW. 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.

For 26dB down Emission Bandwidth

The 26dB down Emission Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set RBW = approximately 1% of the emission bandwidth. Set the VBW $>$ RBW, Detector = Peak, Trace mode = max hold (Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%).

For 99% Occupied Bandwidth

The 99% Occupied Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set center frequency to the nominal EUT channel center frequency, set span = 1.5 times to 5.0 times the OBW, set RBW = 1 % to 5 % of the OBW, set VBW $\geq 3 \times$ RBW, The 99% occupied bandwidth was determined from where the channel output spectrum intersected the display line.

5.3 Limit

Frequency range(MHz)	Minimum 6 dB RF Bandwidth Limit
5150~5250	N/A
5250~5350	N/A
5470~5725	N/A
5725~ 5850	$\geq 500\text{KHz}$

5.4 Measured data of 6dB down Emission Bandwidth test results

The more detail please refer to “Appendix of 240906006SZN-003” Appendix A3.

Note: 99% Occupied Bandwidth within the U-NII-1 band and 26dB Emission Bandwidth for reference. The more detail please refer to “Appendix of 240906006SZN-003” Appendix A2 and Appendix A1.

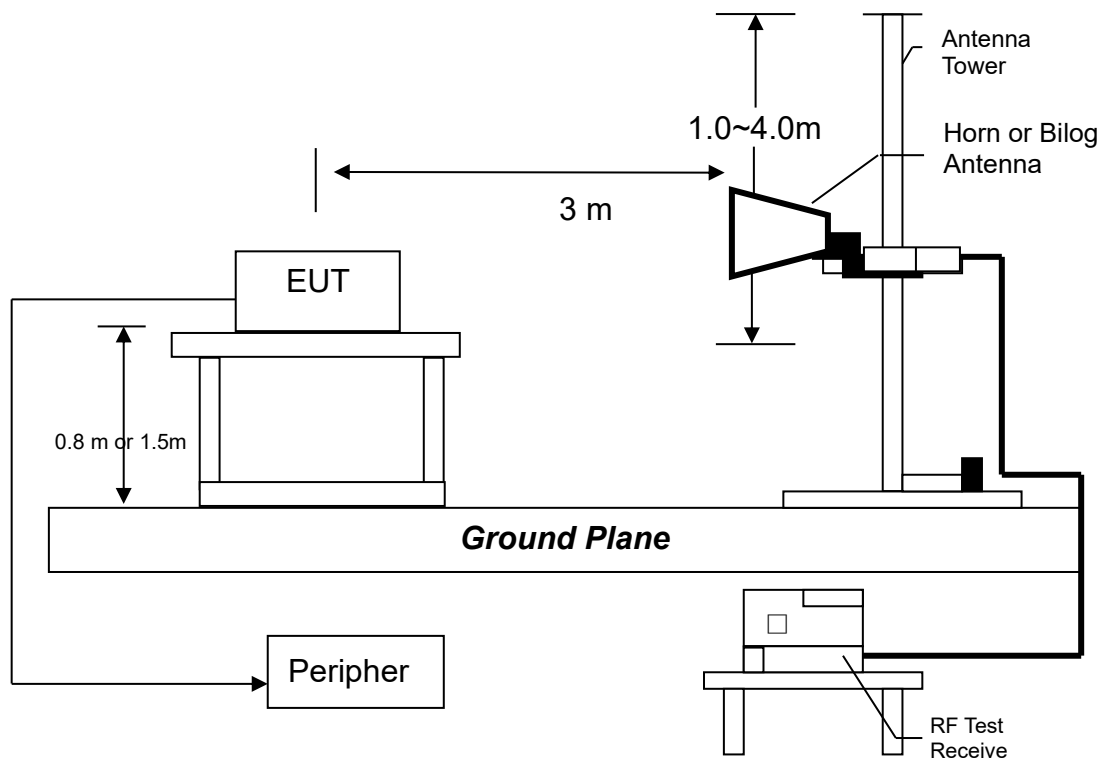
6. Radiated Emission test (FCC 15.205 & 15.209 & 15.407)

6.1 Operating environment

Temperature:	23	°C
Relative Humidity:	56	%
Atmospheric Pressure	1011	hPa

6.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emission measurements were performed from 9KHz to tenth harmonic or 40GHz.

The EUT for testing is arranged on a styrene turntable with the height of 0.8m up to 1GHz and 1.5m above 1GHz. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

Testing settings (refer to KDB 789033 D02)

Peak Measurements below 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=120KHz
- 4, Detector=Quasi-Peak
- 5, Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=1MHz
- 4, VBW=3MHz
- 4, Detector= Peak (Max-hold)
- 5, Trace was allowed to stabilize

Average Measurements above 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=1MHz
- 4, VBW=3MHz
- 4, Detector= RMS (Max-hold)
- 5, Trace was allowed to stabilize

6.3 Limit

The spurious Emission shall test through the 10th harmonic or 40GHz (whichever is lower). 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).

Notes:

- 1, For the band 5.725-5.85GHz, all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- 2, The spectrum is measured from 9KHz to the 10th harmonic of the fundamental frequency of the transmitter using QP detector below 1GHz, above 1GHz, average & peak measurements were taken using for test. The worst-case emission are reported however emission whose levels were not within 20dB of the respective limited were not reported.
- 3, The test was performed on EUT under 802.11a/n-HT20/n-HT40 continuously transmitting mode. Simultaneous transmitting was considered during the testing. All mode had been tested, but only the worst-case is recorded in the following graph and table.

6.3.1 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 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB/m} \\ CF &= 1.6 \text{ dB} \\ AG &= 29.0 \text{ dB} \\ PD &= 0 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m} \end{aligned}$$

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

6.4 Radiated spurious emission test data

6.4.1 Measurement results: frequencies equal to or less than 1 GHz

Applicant: TREND MAKERS LLC

Date of Test: 21 October 2024

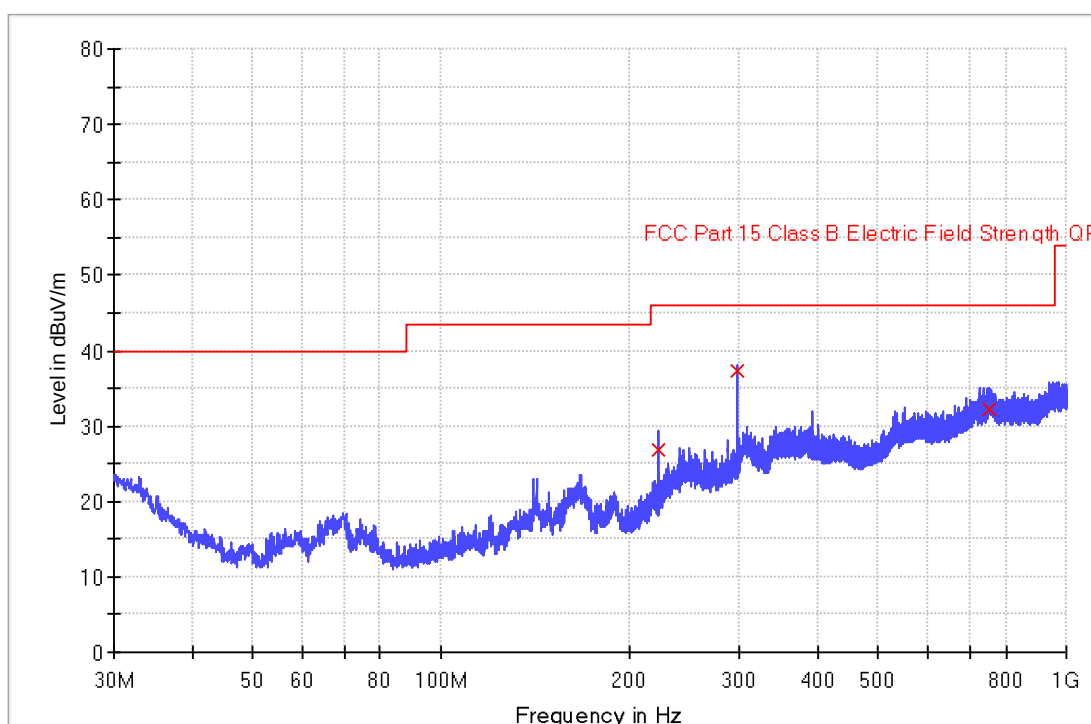
Model: ISB-03

Worst Case Operating Mode: 5.8G WiFi transmission

Radiated Emissions

ANT Polarity: Horizontal

EN55032



Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
222.739000	26.9	1000.0	120.000	H	17.4	19.1	46.0
297.008667	37.2	1000.0	120.000	H	20.1	8.8	46.0
750.936333	32.3	1000.0	120.000	H	31.0	13.7	46.0

NOTES:

1. Quasi-Peak detector is used for frequency below 1GHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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 harmonic 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. All emissions are below the QP limit.

Applicant: TREND MAKERS LLC

Date of Test: 21 October 2024

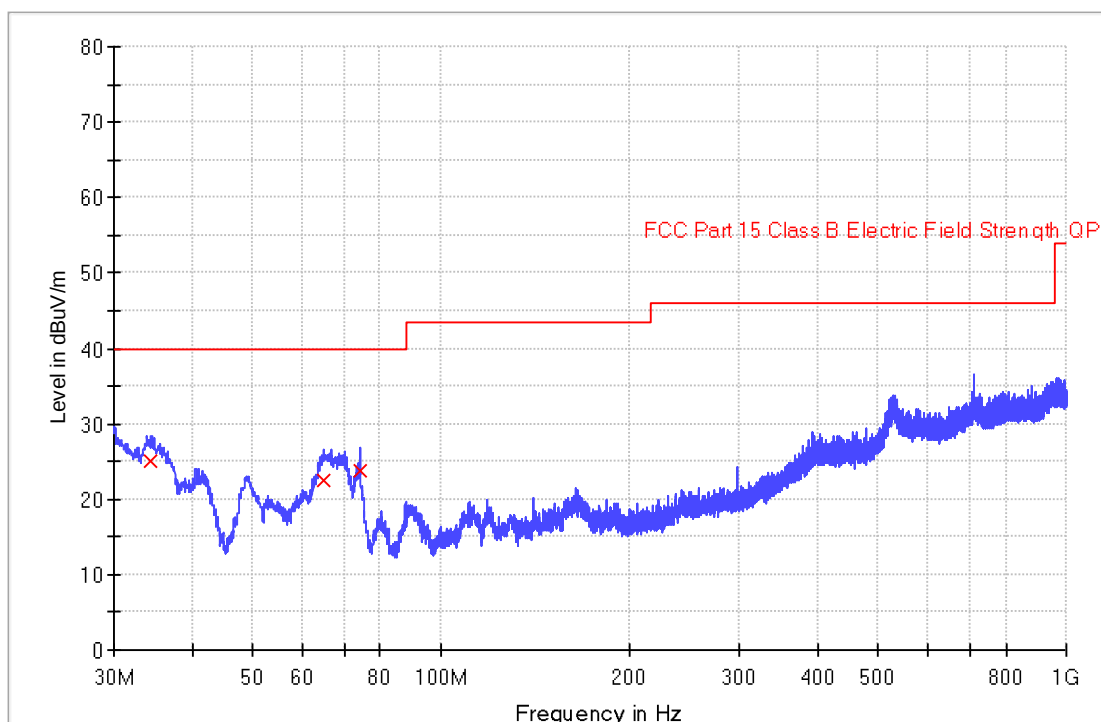
Model: ISB-03

Worst Case Operating Mode: 5.8G WiFi transmission

Radiated Emissions

ANT Polarity: Vertical

EN55032



Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
34.429667	25.2	1000.0	120.000	V	20.2	14.8	40.0
64.855333	22.5	1000.0	120.000	V	13.8	17.5	40.0
74.199667	23.7	1000.0	120.000	V	13.9	16.3	40.0

NOTES:

1. Quasi-Peak detector is used for frequency below 1GHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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 harmonic 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. All emissions are below the QP limit.

6.4.2 Measurement results: frequency above 1GHz

The worst case occurred at 802.11N-HT40

Channel 151/27Mbps

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	5725.000	113.5	36.8	34.5	111.2	122.2	-11.0
Horizontal	11510.000	50.9	36.3	39.0	53.6	74.0	-20.4
Horizontal	17265.000	48.9	34.7	41.2	55.4	68.2	-12.8

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	11510.000	41.4	36.3	39.0	44.1	54.0	-9.9
Horizontal	17265.000	42.2	34.7	41.2	48.7	54.0	-5.3

Channel 159/27Mbps

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	5850.00	114.4	36.8	34.8	112.4	122.2	-9.8
Horizontal	11590.000	54.9	36.3	39.0	57.6	74.0	-16.4
Horizontal	17385.000	51.9	34.7	41.2	58.4	68.2	-9.8

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	11590.000	42.0	36.3	39.0	44.7	54.0	-9.3
Horizontal	17385.000	42.1	34.7	41.2	48.6	54.0	-5.4

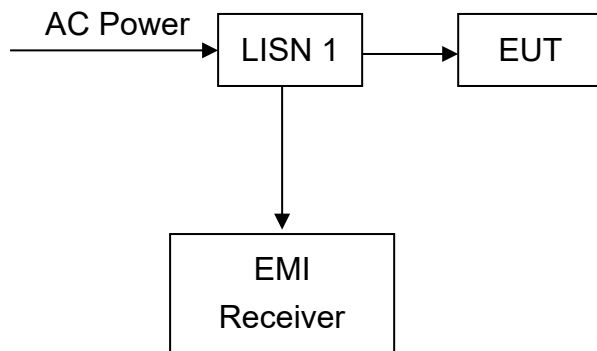
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function. All unwanted emissions outside of the 5725-5850 bands are complied with the limit.

7. Power Line Conducted Emission test

7.1 Operating environment

Temperature: 24 °C
Relative Humidity: 55 %
Atmospheric Pressure 1011 hPa

7.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm/50 uH coupling impedance with 50 ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10/2013 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCI 30) is set at 9 kHz.

7.3 Limit

Frequency (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

*Decreases with the logarithm of the frequency.

7.4 Power Line Conducted Emission test data

Applicant: TREND MAKERS LLC

Date of Test: 12 September 2024

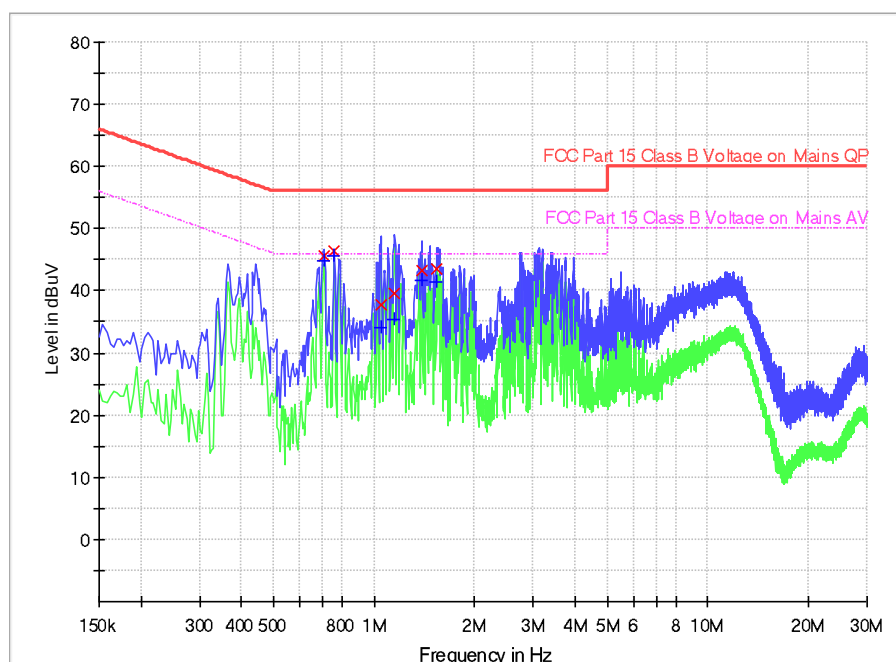
Worst Case Operating Mode:

Phase: Live

Model: ISB-03

5.8G WiFi transmission

Conducted Emission Test FCC Part 15



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.706000	45.7	9.000	L1	9.6	10.3	56.0
0.758000	46.5	9.000	L1	9.6	9.5	56.0
1.050000	37.7	9.000	L1	9.6	18.3	56.0
1.154000	39.7	9.000	L1	9.6	16.3	56.0
1.386000	43.3	9.000	L1	9.6	12.7	56.0
1.542000	43.5	9.000	L1	9.6	12.5	56.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.706000	44.9	9.000	L1	9.6	1.1	46.0
0.758000	45.7	9.000	L1	9.6	0.3	46.0
1.050000	34.2	9.000	L1	9.6	11.8	46.0
1.154000	35.5	9.000	L1	9.6	10.5	46.0
1.386000	41.7	9.000	L1	9.6	4.3	46.0
1.542000	41.3	9.000	L1	9.6	4.7	46.0

Remark:

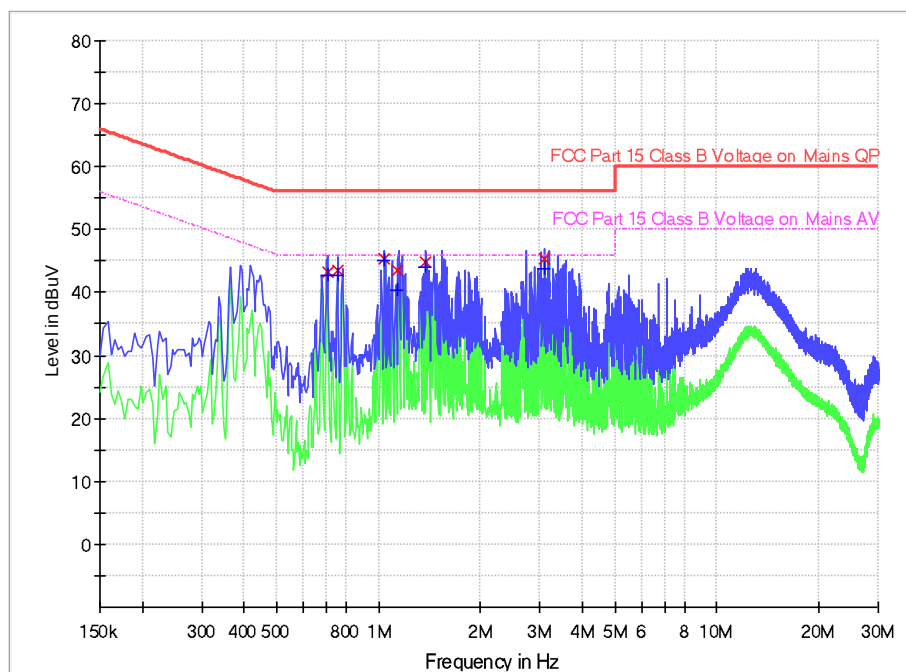
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = Limit (dBμV) – Level (dBμV)

Applicant: TREND MAKERS LLC
Date of Test: 12 September 2024
Worst Case Operating Mode:
Phase: Neutral

Model: ISB-03
5.8G WiFi transmission

Conducted Emission Test FCC Part 15



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.706000	43.3	9.000	N	9.6	12.7	56.0
0.758000	43.4	9.000	N	9.6	12.6	56.0
1.042000	45.5	9.000	N	9.6	10.5	56.0
1.142000	43.6	9.000	N	9.6	12.4	56.0
1.382000	44.8	9.000	N	9.6	11.2	56.0
3.102000	45.4	9.000	N	9.7	10.6	56.0

Limit and Margin AV

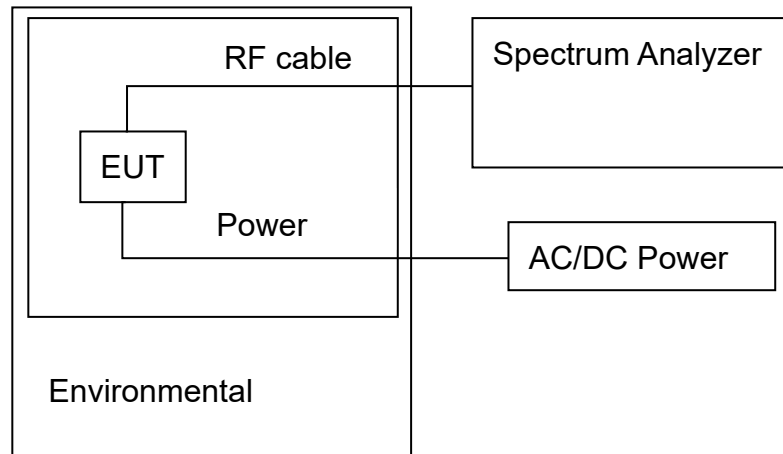
Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.706000	42.7	9.000	N	9.6	3.3	46.0
0.758000	42.8	9.000	N	9.6	3.2	46.0
1.042000	45.1	9.000	N	9.6	0.9	46.0
1.142000	40.5	9.000	N	9.6	5.5	46.0
1.382000	44.1	9.000	N	9.6	1.9	46.0
3.102000	43.9	9.000	N	9.7	2.1	46.0

Remark:

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

8. Frequency Stability Test

8.1 Test setup & procedure



Note1: The frequency stability is measured with the temperature variation range of -20°C to $+45^{\circ}\text{C}$, and voltage supply variation range of 85% to 115% of nominal DC supply voltage.

Note2: To ensure emission at the band-edge is maintained within the authorized band, the frequency 802.11a/n-HT20/n-HT40 channel 149, 165, 151, 159 are selected to test and the worst case was reported.

8.2 Frequency Stability Test Data

20°C is taken as temperature in normal condition (NT).

5.0VDC is normal voltage (NV)

4.25VDC is low voltage (LV)

5.75 VDC is high voltage (HV)

The more detail please refer to "Appendix of 240906006SZN-003" Appendix G.

Note: All emissions are maintained within the band of operation under all conditions of normal operation as specified in the user manual. It fulfills the requirement of 15.407(g).

Appendix A: Test equipment list

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	2024-04-22	2025-04-22
SZ182-02-01	Pulse Power Sensor	Anritsu	MA2411B	1207429	2024-04-22	2025-04-22
SZ070-20	Combiner	Mini-Circuits	ZN2PD-63-S+	---	2024-04-23	2025-04-23
SZ070-21	Combiner	Mini-Circuits	ZN2PD-63-S+	---	2024-04-23	2025-04-23
SZ056-05	Spectrum Analyzer	Agilent	E4407B	US40522113	2023-12-13	2024-12-13
SZ180-13	MXG Vector Signal Generator	Keysight	N5182B	MY53051328	2023-09-25 2024-09-24	2024-09-25 2025-09-24
SZ061-03	BiConiLog Antenna	ETS	3142E	00217919	2024-07-09	2027-07-09
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2024-05-05	2027-05-05
SZ061-09	Horn Antenna	ETS	3115	00092346	2022-10-14	2025-10-14
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	2022-08-31	2025-08-31
SZ185-03	EMI Receiver	R&S	ESR7	101975	2024-04-23	2025-04-23
SZ056-07	Signal Analyzer	R&S	FSV40	101214	2023-12-13	2024-12-13
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	2024-04-22	2025-04-22
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	2021-12-12	2024-12-12
SZ062-24	RF Cable	RADIAL	RG 213U	--	2023-09-26 2024-09-25	2024-09-26 2025-09-25
SZ062-25	RF Cable	RADIAL	0.04-26.5GHz	--	2023-09-26 2024-09-25	2024-09-26 2025-09-25
SZ062-38	RF Cable	RADIAL	0.04-26.5GHz	--	2023-11-14	2024-11-14
SZ067-25	Notch Filter	Micro-Tronics	BRM50716	--	2024-02-28	2025-02-28
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	2024-04-23	2025-04-23
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	2024-07-09	2025-07-09
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	2024-04-23	2025-04-23
SZ188-03	Shielding Room	ETS	RFD-100	4100	2022-12-20	2025-12-20
SZ016-12	Programmable Temperature & Humidity Chamber	Tailli	MHK-120NK	AB0105	2023-12-14	2024-12-14

Expanded uncertainty of radiated emission measurement is ± 4.8 dB.

Expanded uncertainty of conducted emission measurement is ± 3.2 dB.

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