FCC PART 15 SUBPART B:2023 MEASUREMENT AND TEST REPORT FOR

hui zhou shi bai li ke ji you xian gong si

Office 401, 4th Floor Building A-1, No. 3 Yuanhui Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, China, 516029

FCC ID: 2A4TK-BX38420C

Model: LSSCOBX38420C, LSSCOBX38420N, LSSCOBX38420W, LSSCOBX38420GY, LSSCOBD38420GC, LSSCOBD38420WC, LSSCOBD38420NC, LSSCOBD38420CC, LSSCOBX48020W, LSSCOBX48020G, LSSCOBX48020W, LSSCOBL38420NC, LSSCOBS38420NC, LSSCOBL38420CC, LSSCOBS38420WC, LSSCOBS38420CC, LSSCOBL38420WC, LLS-RF-24V-1, LLS-RF-24V-2, LSSCOBT38420OC, LSSCOBT38420PK, LSSCOBT38420IC, LSSCOBT38420PP, LSSCOBT38420BC, LSSCOBT38420RC, LSSCOBT38420GR, LSSCOBX38420GR, LSSCOBX38420PK, LSSCOBX38420BC, LSSCOBX384200C, LSSCOBX38420IC, LSSCOBX38420PP, LSSCOBX38420RC, LSSCOBX61620LL, LSSCOBX61620WW, LSSCOBX61620CC

December 31, 2024

This Report Concerns:	**Equipment Type:**
☒ Original Report	COB LED STRIP LIGHT

Test Engineer: LBi Li/ LBi Li

Report Number: **QCT24KR-2364E-01**

Test Date: December 26~30, 2024

Reviewed By: Vincent Yang / Vincent Yang

Approved By: Kendy Wang / Kendy Wang

Prepared By: **Shenzhen QC Testing Laboratory Co., Ltd.**
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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	hui zhou shi bai li ke ji you xian gong si
Address of applicant:	Office 401, 4th Floor Building A-1, No. 3 Yuanhui Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, China, 516029
Manufacturer:	hui zhou shi bai li ke ji you xian gong si
Address of manufacturer:	Office 401, 4th Floor Building A-1, No. 3 Yuanhui Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, China, 516029

General Description of E.U.T

Product Description:	COB LED STRIP LIGHT
Trade Mark:	Tatazone
Model No.:	LSSCOBX38420C, LSSCOBX38420N, LSSCOBX38420W, LSSCOBX38420GY, LSSCOBD38420GC, LSSCOBD38420WC, LSSCOBD38420NC, LSSCOBD38420CC, LSSCOBX48020W, LSSCOBX48020G, LSSCOBX48020W, LSSCOBL38420NC, LSSCOBS38420NC, LSSCOBL38420CC, LSSCOBS38420WC, LSSCOBS38420CC, LSSCOBL38420WC, LLS-RF-24V-1, LLS-RF-24V-2, LSSCOBT38420OC, LSSCOBT38420PK, LSSCOBT38420IC, LSSCOBT38420PP, LSSCOBT38420BC, LSSCOBT38420RC, LSSCOBT38420GR, LSSCOBX38420GR, LSSCOBX38420PK, LSSCOBX38420BC, LSSCOBX384200C, LSSCOBX38420IC, LSSCOBX38420PP, LSSCOBX38420RC, LSSCOBX61620LL, LSSCOBX61620WW, LSSCOBX61620CC
Model Difference:	All models in each series have similar construction with the same diagram circuit and PCB layout, but difference is the commercial demand. All tests were conducted on the models LSSCOBX38420C) and the test result was passed.
Test Model No.:	LSSCOBX38420C
Rated Supply:	DC 24V(Powered by adapter)
Highest internal frequency:	433.92MHz(Provided by the applicant)
Adapter Information:	Model: XY24SQ-240100VQ-UW Input: 100-240V~ 50/60Hz 0.6A Max Output: 24.0V ⎓ 1.0A
Sample No.:	Y24K2364E01WC

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Independent Operation Modes

The basic operation modes are:

A. On
B. Off

General Description of Test Auxiliary

AUX Description:	Manufacturer	Model No.	Remark
/	/	/	/
/	/	/	/

1.2 Test Standards

The following Declaration of Conformity report of EUT is prepared in accordance with FCC Rules and Regulations Part 15 Subpart B

The objective of the manufacturer is to demonstrate compliance with the described above standards.

1.3 Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart B for Emissions

Table 1: Tests Carried Out Under FCC Part 15 Subpart B

Standard	Test Items	Status
FCC Part 15.107	Conduction Emission (0.15MHz to 30MHz)	√
FCC Part 15.109	Radiation Emission (30MHz to 1GHz)	√
FCC Part 15.109	Radiation Emission (Above 1GHz)	√

√ Indicates that the test is applicable
× Indicates that the test is not applicable

Note：All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

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1.4 Test Methodology

All measurements contained in this report were conducted with CISPR 16-1-1, radio disturbance and immunity measuring apparatus, and CISPR 16-2-3, Method of measurement of disturbances and immunity.

All measurement required was performed at **Shenzhen QC Testing Laboratory Co., Ltd.** at at East of 1/F., Building E, Xinghong Science Park, No.111, Shuiku Road, Fenghuanggang, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.

1.5 Test Facility

Test Firm: Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS – Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

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1.6 Measurement Uncertainty

Parameter	Uncertainty
Disturbance Voltage (9kHz-0.15MHz)	±2.25dB
Disturbance Voltage (150kHz-30MHz)	±1.80dB
Radiated electromagnetic disturbance (9kHz-30MHz)	±2.66dB
Radiated electromagnetic disturbance (30MHz-1000MHz)	±4.04dB
Radiated electromagnetic disturbance (1000MHz-18000MHz)	±4.70 dB
Radiated electromagnetic disturbance (18GHz-40GHz)	±4.80dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

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2 - SYSTEM TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as only used by a typical user).

2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software offered by manufacturer, can let the EUT being **A** Mode.

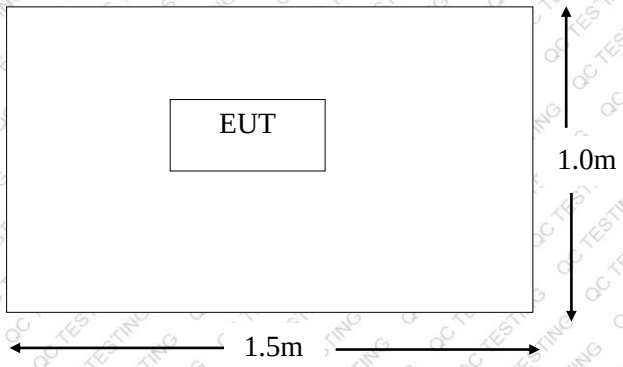
2.3 Special Accessories

As shown in section 2.5, interface cable used for compliance testing is shielded as normally supplied by **hui zhou shi bai li ke ji you xian gong si**and its respective support equipment manufacturers.

2.4 Equipment Modifications

The EUT tested was not modified by QCT.

2.5 Configuration of Test System



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3 - DISTURBANCE VOLTAGE AT THE MAINS TERMINALS

3.1 Limit of Disturbance Voltage at the Mains Terminals

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-Peak	Average
0.150～0.500	66～56*	56～46*
0.500～5.000	56	46
5.000～30.00	60	50

Note:
1. The tighter limit applies at the band edges.
2. The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.2 EUT Setup

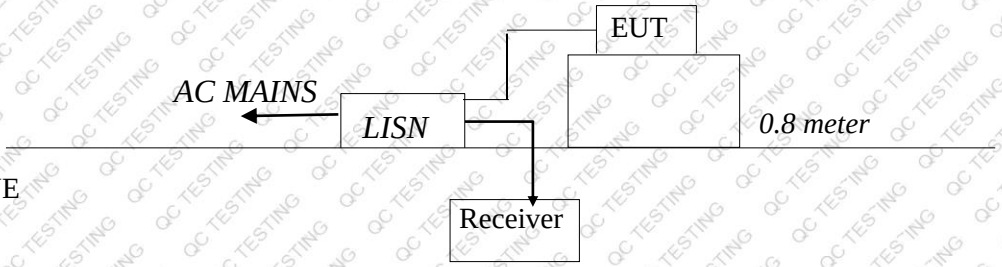
The setup of EUT is according with ANSI C63.4-2014 measurement procedure. The specification used was the FCC Rules and Regulations Part 15 Subpart B limits.

The EUT was placed center and the back edge of the test table.

The AV cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.



3.3 Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range……150 kHz to 30 MHz
Detector……Peak & Quasi-Peak & Average
Sweep Speed……Auto
IF Band Width……9 kHz

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3.4 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB μV of specification limits). Quasi-peak readings are distinguished with a "**QP**". Average readings are distinguished with a "**AV**".

3.5 Test Equipment List and Details

No.	Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal.Due
1	EMI Test Receiver	Rohde&Schwarz	ESIB 7	2277573376	2024.03.14	2025.03.13
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	101820	2024.08.06	2025.08.05
3	Artificial Mains Network	SCHWARZBECK	NSLK8126	8126200	2024.08.06	2025.08.05
4	PULSE LIMITER	Rohde&Schwarz	ESH3-Z2	100058	2024.03.14	2025.03.13
5	ISN	SCHWARZBECK	NTFM 8158	#248	2024.08.06	2025.08.05
6	Current Probe	Rohde&Schwarz	EZ-17	8016.2063.02	2024.03.14	2025.03.13
7	Test Software	Tonscend	TS+ JS32-CE Ver 5.0.0	N/A	N/A	N/A

3.6 Disturbance Voltage Test Data

Temperature (℃)	23
Humidity (%RH)	52
Barometric Pressure (kpa)	101
EUT	COB LED STRIP LIGHT
M/N	LSSCOBX38420C
Operating Mode	A

Test data see following pages

Remark: (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.
(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured.

3.7 Test Result

PASS

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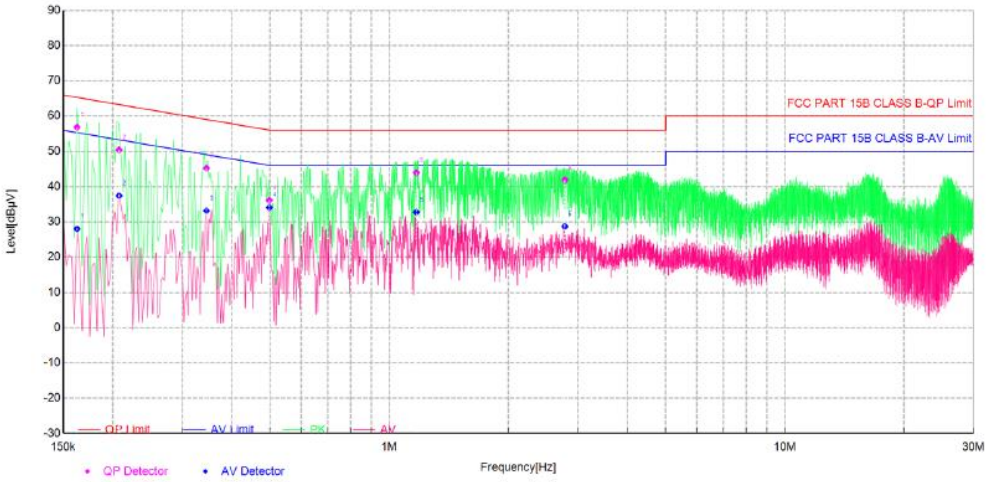

Final Data List

NO.	Freq. [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Phase	Verdict
1	0.1625	10.60	56.85	65.34	8.49	28.04	55.34	27.30	L	PASS
2	0.2075	10.67	50.42	63.30	12.88	37.47	53.30	15.83	L	PASS
3	0.3450	10.73	45.25	59.08	13.83	33.18	49.08	15.90	L	PASS
4	0.4975	10.73	36.16	56.04	19.88	34.09	46.04	11.95	L	PASS
5	1.1700	10.65	43.96	56.00	12.04	32.79	46.00	13.21	L	PASS
6	2.7785	10.70	41.89	56.00	14.11	28.72	46.00	17.28	L	PASS

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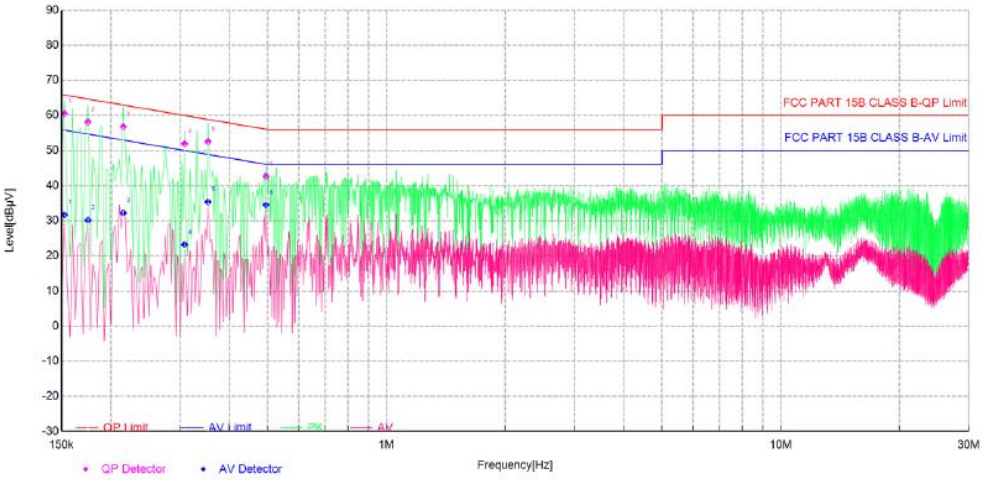

Final Data List

NO.	Freq. [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Phase	Verdict
1	0.1525	10.48	60.55	65.86	5.31	31.73	55.86	24.13	N	PASS
2	0.175	10.48	58.20	64.72	6.52	30.16	54.72	24.56	N	PASS
3	0.215	10.54	56.81	63.01	6.20	32.26	53.01	20.75	N	PASS
4	0.3075	10.83	51.97	60.04	8.07	23.25	50.04	26.79	N	PASS
5	0.3525	10.72	52.57	58.90	6.33	35.45	48.90	13.45	N	PASS
6	0.495	10.59	42.65	56.08	13.43	34.59	46.08	11.49	N	PASS

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4 - RADIATED DISTURBANCES

4.1 Limit of Radiated Disturbances

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (μV/m)	Field Strengths Limits (dBμV/m)
30 ~ 88	3	100	40.0
88~216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

Notes:

1. The tighter limit applies at the band edges.
2. Emission level (dBuV/m) = 20log Emission level (uV/m).

4.2 EUT Setup

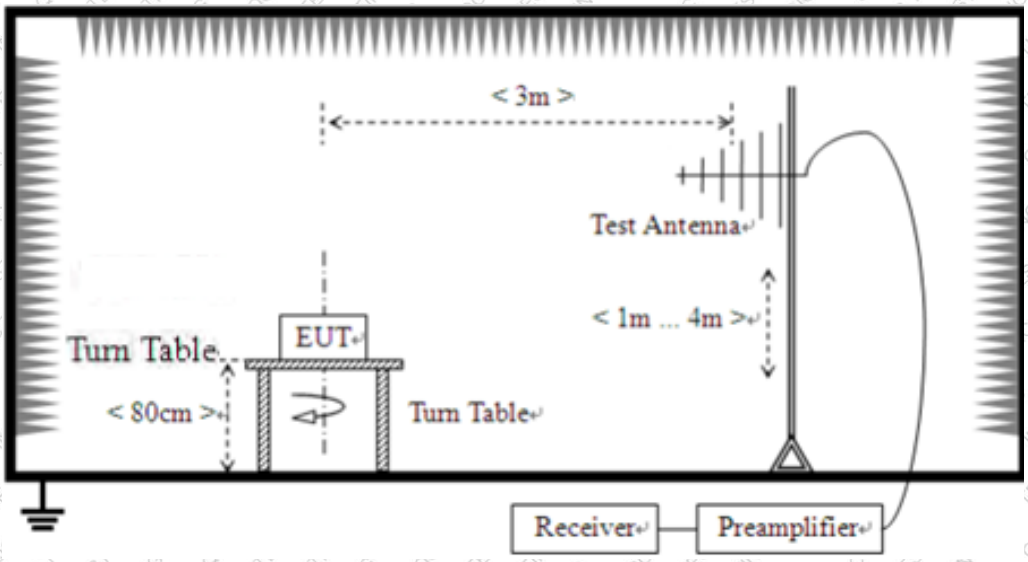
The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15 Subpart B limits.

The EUT was placed on the center of the test table.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

Block diagram of test setup (In chamber)

For radiated emissions from 30MHz to1GHz



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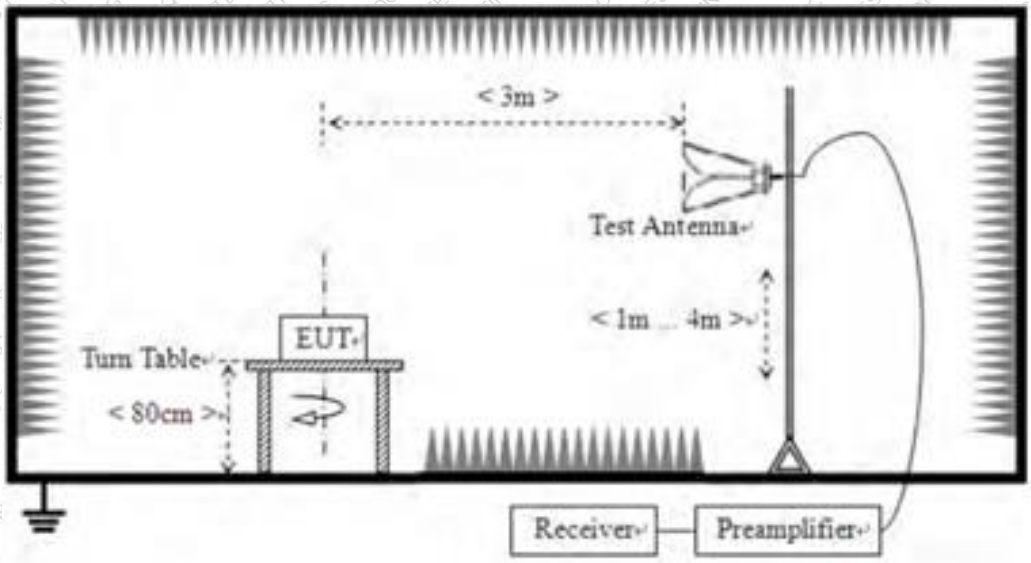
For radiated emissions above 1GHz



4.3 Test Receiver Setup

According to FCC Part 15 rule, the frequency was investigated from 30 to 26000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting:

Detector…….. Peak & Quasi-Peak & Average
IF Band Width…….. 120kHz/1MHz
Frequency Range……. 30MHz to 1000MHz/Above 1GHz
Turntable Rotated……0 to 360 degrees
Antenna Position:

Height……1m to 4m
Polarity……...Horizontal and Vertical

4.4 Test Procedure

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

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB μV of specification limits), and are distinguished with a "**QP**" in the data table.

4.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB μV means the emission is 7dB μV below the maximum limit for Subpart B. The equation for margin calculation is as follows:

Margin = Limit – Corr. Ampl.

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4.6 Test Equipment List and Details

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2	EMI Test Receiver	ESPI3	ESPI3	101131	2024.03.14	2025.03.13
3	Spectrum Analyzer	Rohde&Schwarz	FSV 40	101458	2024.03.14	2025.03.13
4	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9168	VULB9168-588	2023.04.01	2025.03.31
5	Loop Antenna	EMCO	6502	2133	2024.03.18	2025.03.17
6	horn antenna	SCHWARZBECK	BBHA9120D	2069	2024.08.10	2025.08.09
7	Horn Antenna	COM-MW	ZLB7-18-40G -950	12221225	2023.01.12	2025.01.09
8	Pre-amplifier	MITEQ	TTA0001-18	2063645	2024.03.27	2025.03.26
9	Pre-amplifier	COM-MW	DLAN-18000 -40000-02	10229104	2024.03.14	2025.03.13
10	966 Camber	ZhongYU	9*6*6	/	2023.05.08	2026.05.07
11	Test Software	Farad	EZ-EMC Ver QCT03A2 RE+	N/A	N/A	N/A

4.7 Radiated Emissions Test Result

Temperature (℃)	26
Humidity (%RH)	54
Barometric Pressure (kpa)	101
EUT	COB LED STRIP LIGHT
M/N	LSSCOBX38420C
Operating Mode	A

4.8 Test Result

PASS

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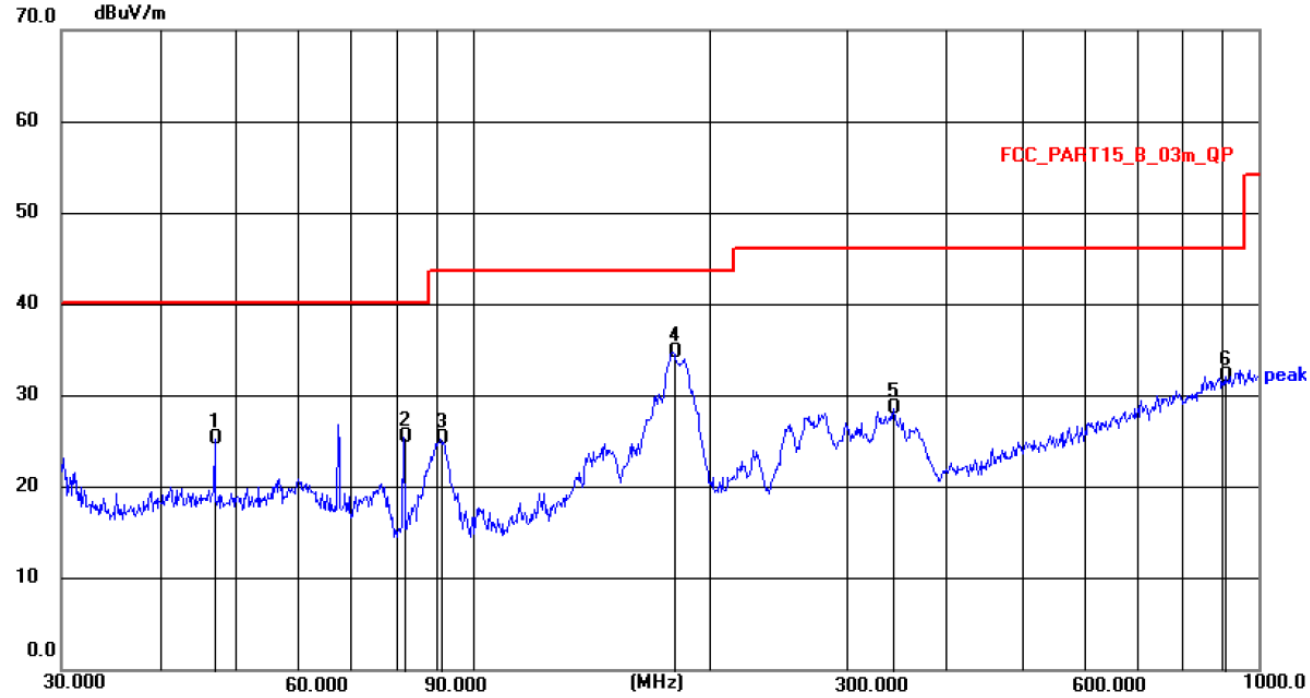
Radiated Emission Test Data of Below 1GHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.9948	10.57	14.68	25.25	40.00	14.75	QP
2	81.7833	15.14	10.35	25.49	40.00	14.51	QP
3	91.1746	14.97	10.25	25.22	43.50	18.28	QP
4 *	180.0165	22.38	12.42	34.80	43.50	8.70	QP
5	343.1800	12.69	15.96	28.65	46.00	17.35	QP
6	906.4824	5.59	26.56	32.15	46.00	13.85	QP

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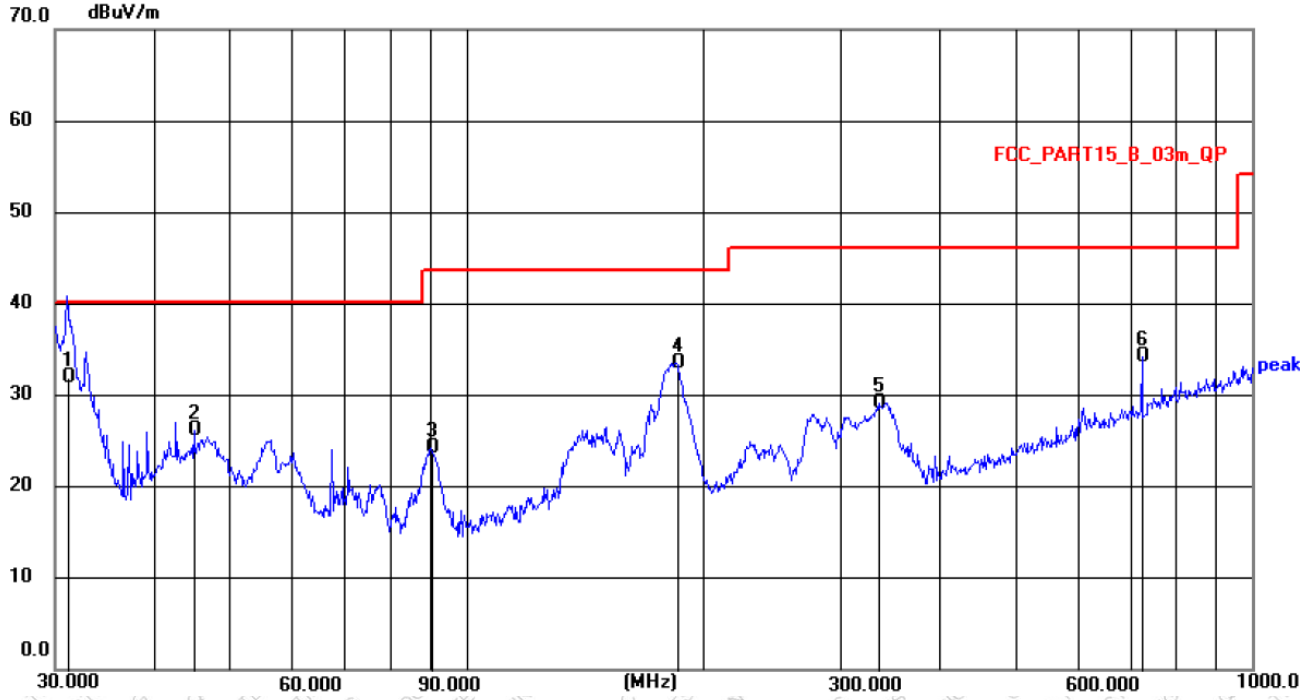
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	31.0706	19.25	12.65	31.90	40.00	8.10	QP
2	45.0583	11.57	14.52	26.09	40.00	13.91	QP
3	90.2205	14.14	10.07	24.21	43.50	19.29	QP
4	185.1379	21.73	11.85	33.58	43.50	9.92	QP
5	334.8589	13.76	15.43	29.19	46.00	16.81	QP
6	724.2611	11.00	23.27	34.27	46.00	11.73	QP

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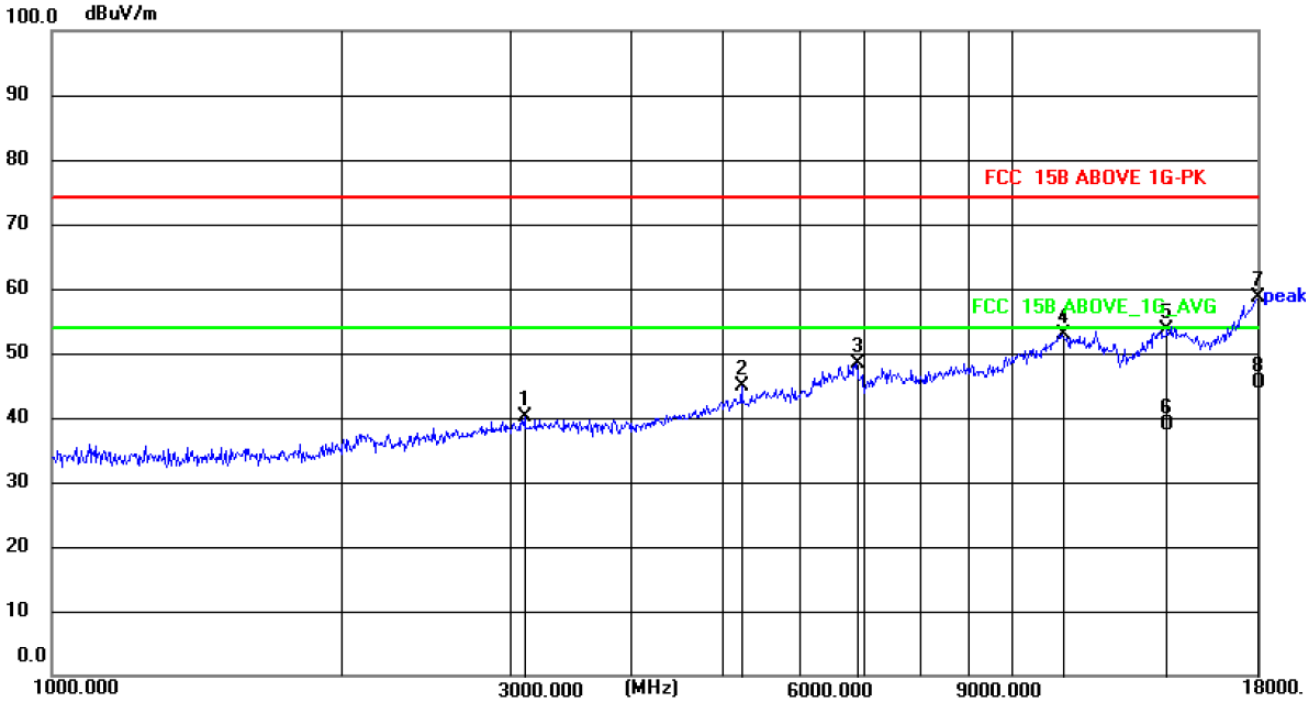
Radiated Emission Test Data of Above 1GHz
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3105.037	48.55	-8.45	40.10	74.00	33.90	peak
2	5224.153	49.55	-4.74	44.81	74.00	29.19	peak
3	6874.906	48.04	0.22	48.26	74.00	25.74	peak
4	11269.856	45.53	7.46	52.99	74.00	21.01	peak
5	14491.958	45.20	8.49	53.69	74.00	20.31	peak
6	14491.958	30.31	8.49	38.80	74.00	35.20	QP
7 *	18000.000	44.29	14.28	58.57	74.00	15.43	peak
8	18000.000	31.22	14.28	45.50	74.00	28.50	QP

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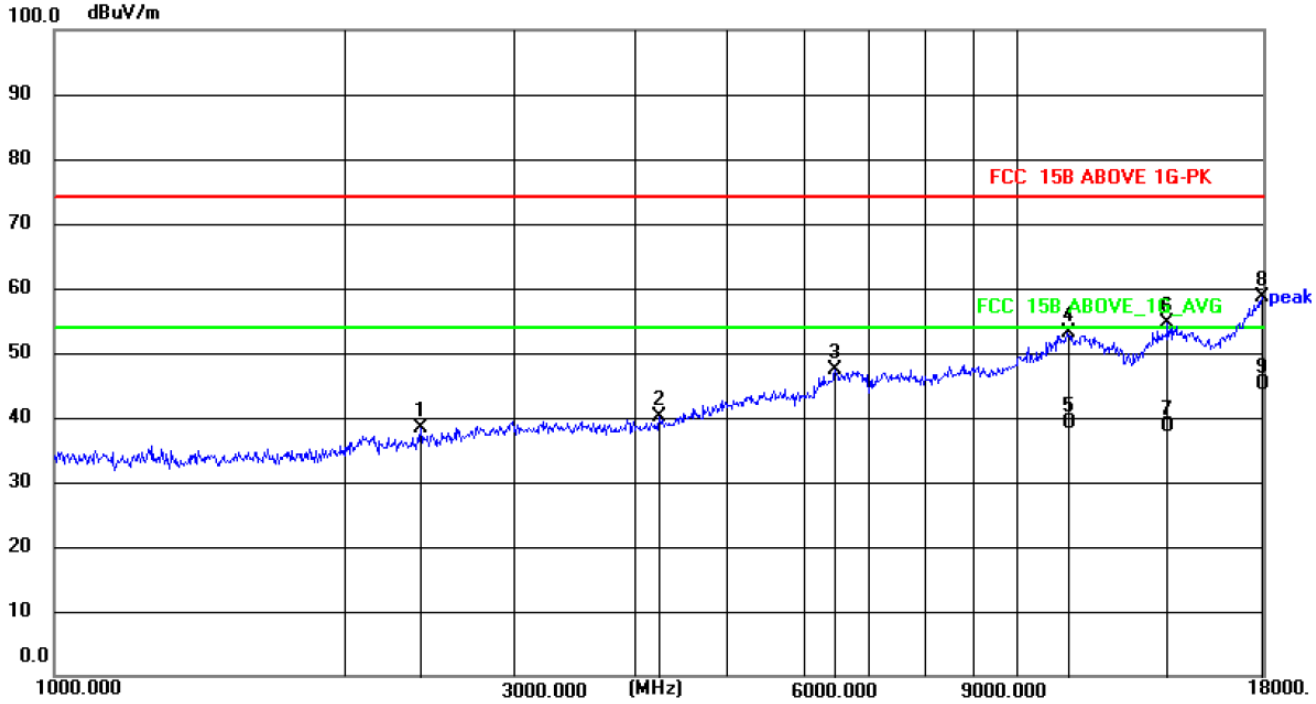
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2400.753	49.47	-11.12	38.35	74.00	35.65	peak
2	4242.641	47.68	-7.67	40.01	74.00	33.99	peak
3	6470.026	48.54	-1.17	47.37	74.00	26.63	peak
4	11269.856	45.56	7.46	53.02	74.00	20.98	peak
5	11269.856	31.64	7.46	39.10	74.00	34.90	QP
6	14325.374	46.37	8.31	54.68	74.00	19.32	peak
7	14325.374	30.29	8.31	38.60	74.00	35.40	QP
8 *	17948.048	44.73	14.00	58.73	74.00	15.27	peak
9	17948.048	31.20	14.00	45.20	74.00	28.80	QP

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

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