

TEST REPORT

Applicant Name: Xiamen VBeT Electronics Co.,Ltd.
Address: N403, Weiye Building, Xiamen Pioneering Park for Overseas Chinese Scholars, PRC
Report Number: 2501U01816E-EM-00
FCC ID: 2AC67-HS062

Test Standard (s)

FCC Part 15, Subpart B (Class B)

Sample Description

Product Type: UC Headset
Model No.: VT6200 UNC Duo
Multiple Model(s) No.: VT6200 UNC, VT6300 UNC Duo, VT6300 UNC, VT5009 UNC Duo, VT5009 UNC, VT X100 UNC Duo, VT X100 UNC, 6200 UNC Duo, 6200 UNC, 6300 UNC Duo, 6300 UNC, 5009 UNC Duo, 5009 UNC, X100 UNC Duo, X100 UNC
Trade Mark: VT
Date Received: 2025/06/13
Issue Date: 2025/07/21

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Joson Xiao
EMC Engineer

Approved By:

Moon Liu

Moon Liu
EMC Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501U01816E-EM-00	Original Report	2025/07/21

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	UC Headset
Tested Model	VT6200 UNC Duo
Multiple Model(s)	VT6200 UNC, VT6300 UNC Duo, VT6300 UNC, VT5009 UNC Duo, VT5009 UNC, VT X100 UNC Duo, VT X100 UNC, 6200 UNC Duo, 6200 UNC, 6300 UNC Duo, 6300 UNC, 5009 UNC Duo, 5009 UNC, X100 UNC Duo, X100 UNC
Voltage Range	DC 5V from USB
Highest operating frequency [#]	24MHz (Provided by the applicant)
Equipment Class	Class B
Sample number	341R-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: The Multiple models are electrically identical with the test model except for speakers. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer.	

Objective

This test report is in accordance with Part 2-Subpart J, Part 15B Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15B.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters. Each test item follows test standards and with no deviation.

Measurement Uncertainty

Item	Frequency Range		Expanded Measurement uncertainty
Conducted Emissions	AC Mains	150 kHz ~30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Disturbance	30MHz~200MHz	Horizontal	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz	Vertical	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz	Horizontal	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz	Vertical	5.73dB(k=2, 95% level of confidence)

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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. : 715558, the FCC Designation No. : CN5045.

Each test item follows test standards and with no deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in worst case condition.

Test mode: Playing

EUT exercise software

No exercise software was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

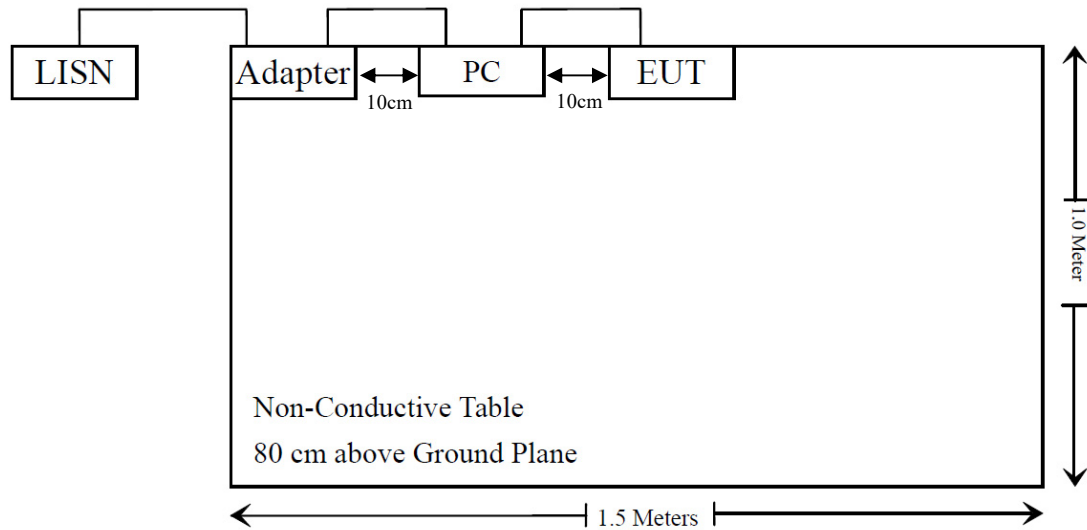
Manufacturer	Description	Model	Serial Number
DELL	PC	Latitude E7280	9RVYFH2
DELL	Adapter	DA130PE1-00	CN-0JU012-68219-18B-JEYY-A04

External I/O Cable

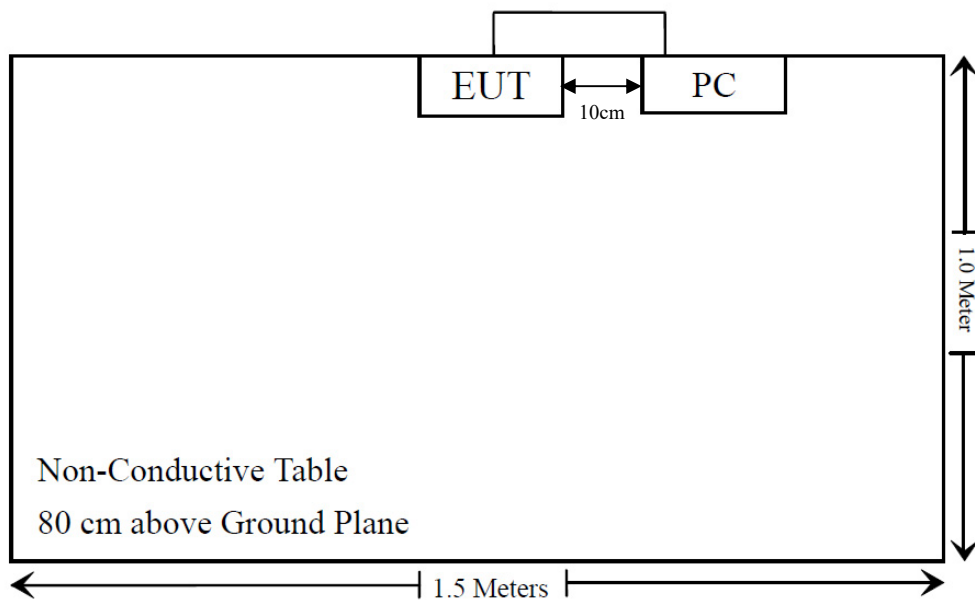
Cable Description	Length (m)	From/Port	To
Un-Shielding Un-Detachable USB Cable	2.2	EUT	PC
Un-Shielding Detachable AC Cable	1.0	Adapter	LISN
Un-Shielding Un-Detachable DC Cable	1.2	Adapter	PC

Block Diagram of Test Setup

Conducted Emissions



Radiation emission



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2025/04/29	2026/04/28
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/04/29	2026/04/28
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2025/04/29	2026/04/28
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2025/04/29	2026/04/28
Unknown	Cable	XH500C	J-10M-A	2025/04/29	2026/04/28
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR

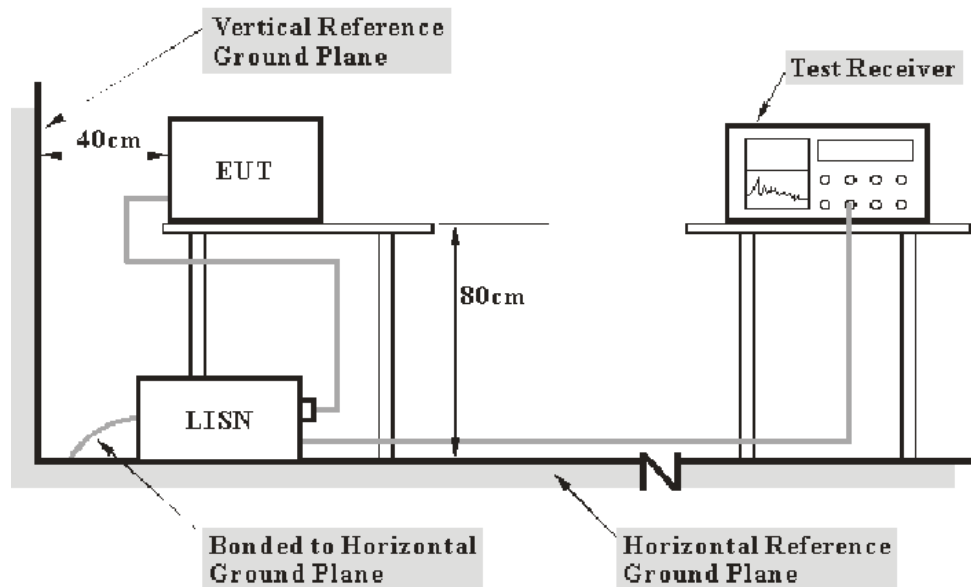
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 - AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC§15.107

EUT Setup



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

The measurement procedure of EUT setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Level & Over Limit Calculation

The Level is calculated by adding the LISN Factor, Cable Loss and the Read Level. The basic equation is as follows:

$$\text{Level (dBuV)} = \text{Read Level (dBuV)} + \text{LISN Factor} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit.

$$\text{Over Limit (dB)} = \text{Level (dBuV)} - \text{Limit Line (dBuV)}$$

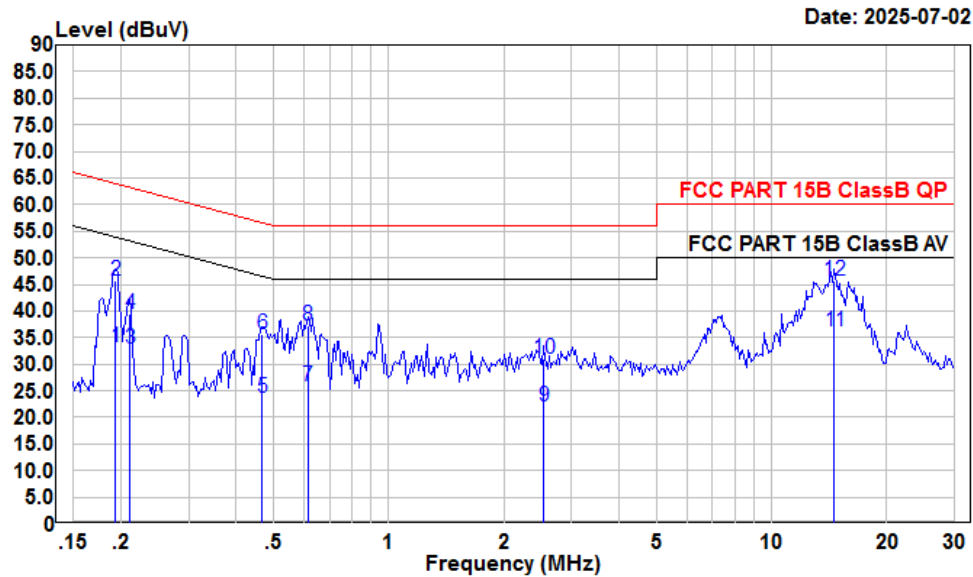
Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

Environmental Conditions

Temperature:	24.9 °C
Relative Humidity:	65 %
ATM Pressure:	100.2 kPa

The testing was performed by Kungfumaster Liang on 2025-07-02.

*Test Mode: Playing***AC 120V/60 Hz, Line**

Condition: Line

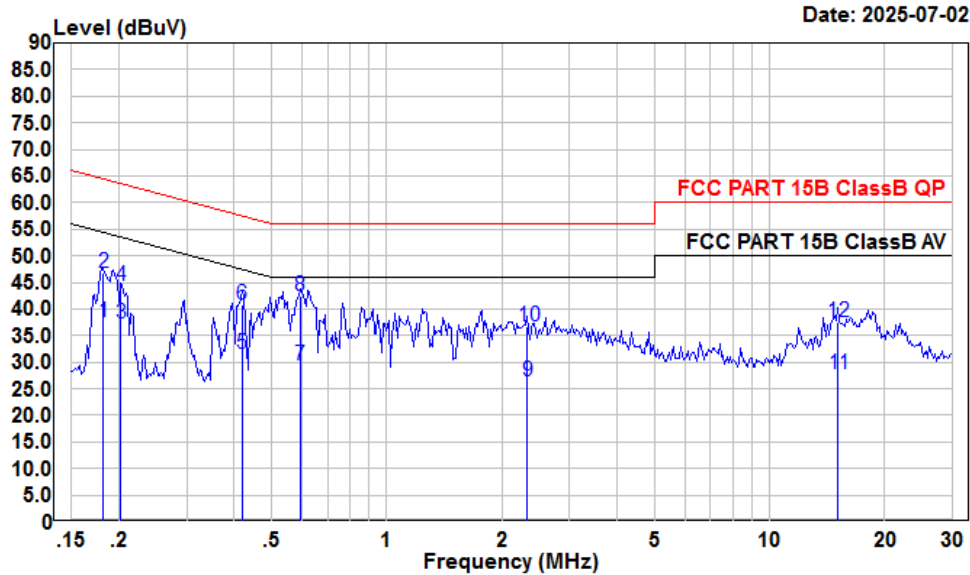
Project : 2501U01816E-EM

test Mode: Playing

tester : Kungfumaster.Liang Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.193	12.35	33.21	10.67	10.19	53.89	-20.68	Average
2	0.193	24.89	45.75	10.67	10.19	63.89	-18.14	QP
3	0.211	11.90	32.78	10.69	10.19	53.18	-20.40	Average
4	0.211	18.66	39.54	10.69	10.19	63.18	-23.64	QP
5	0.466	3.00	23.71	10.52	10.19	46.58	-22.87	Average
6	0.466	14.88	35.59	10.52	10.19	56.58	-20.99	QP
7	0.614	4.76	25.73	10.74	10.23	46.00	-20.27	Average
8	0.614	16.34	37.31	10.74	10.23	56.00	-18.69	QP
9	2.540	0.68	21.96	11.03	10.25	46.00	-24.04	Average
10	2.540	9.69	30.97	11.03	10.25	56.00	-25.03	QP
11	14.594	15.70	36.27	10.30	10.27	50.00	-13.73	Average
12	14.594	25.17	45.74	10.30	10.27	60.00	-14.26	QP

AC 120V/60 Hz, Neutral



Condition: Neutral

Project : 2501U01816E-EM

test Mode: Playing

tester : Kungfumaster.Liang Setting:RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.182	16.74	37.60	10.67	10.19	54.42	-16.82	Average
2	0.182	26.01	46.87	10.67	10.19	64.42	-17.55	QP
3	0.202	16.32	37.31	10.80	10.19	53.54	-16.23	Average
4	0.202	23.29	44.28	10.80	10.19	63.54	-19.26	QP
5	0.419	10.69	31.46	10.56	10.21	47.46	-16.00	Average
6	0.419	20.11	40.88	10.56	10.21	57.46	-16.58	QP
7	0.595	8.57	29.35	10.55	10.23	46.00	-16.65	Average
8	0.595	21.64	42.42	10.55	10.23	56.00	-13.58	QP
9	2.334	5.35	26.36	10.77	10.24	46.00	-19.64	Average
10	2.334	15.71	36.72	10.77	10.24	56.00	-19.28	QP
11	15.066	7.13	27.71	10.31	10.27	50.00	-22.29	Average
12	15.066	16.99	37.57	10.31	10.27	60.00	-22.43	QP

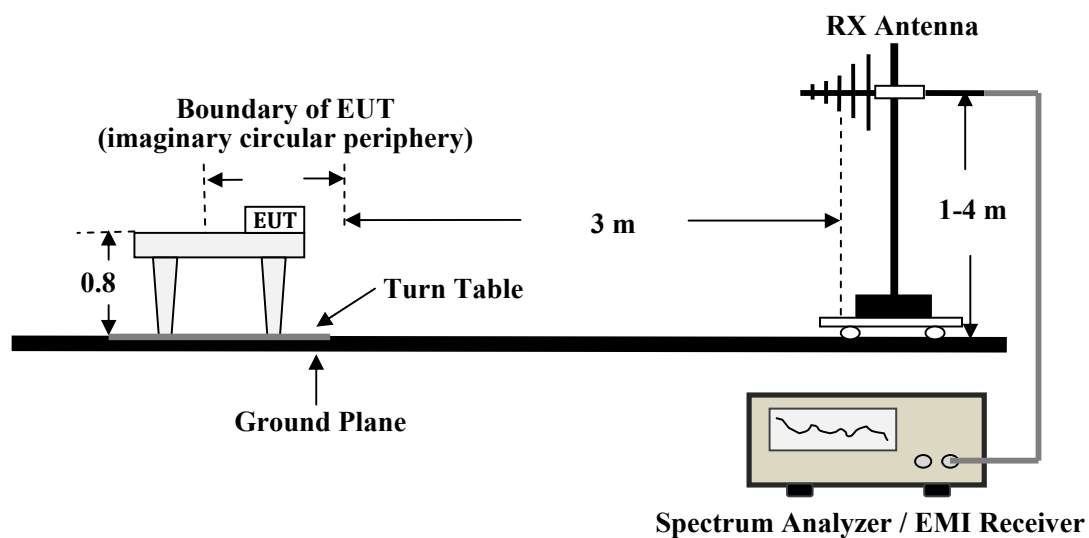
FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

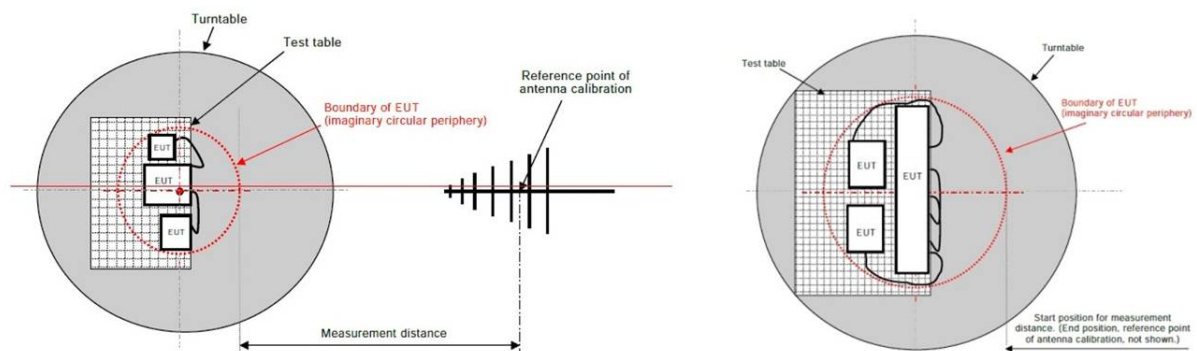
FCC §15.109

EUT Setup

Below 1GHz for Radiated Emissions



Radiated Emissions Setup Configuration



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The related limit was specified in FCC Part 15B.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP

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 Quasi-peak detector mode from 30 MHz to 1 GHz.

Level & Over Limit Calculation

The Level is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Read Level. The basic equation is as follows:

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

$$\text{Level} = \text{Read Level} + \text{Factor}$$

The “Over limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -6 dB means the emission is 6dB below the limit for Class B. The equation for Over Limit calculation is as follows:

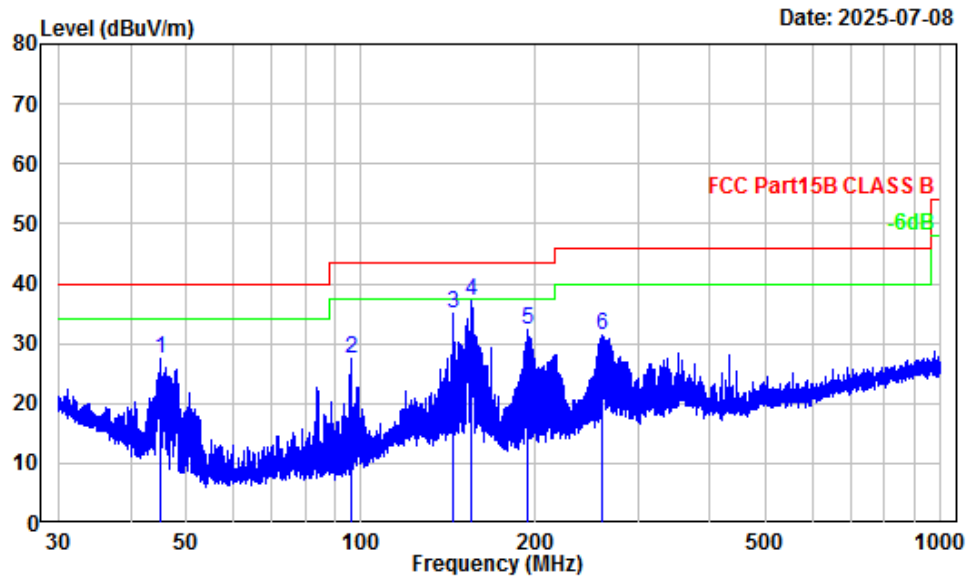
$$\text{Over limit} = \text{Level} - \text{Limit}$$

Test Data

Environmental Conditions

Temperature:	25.1 °C
Relative Humidity:	49 %
ATM Pressure:	100.2 kPa

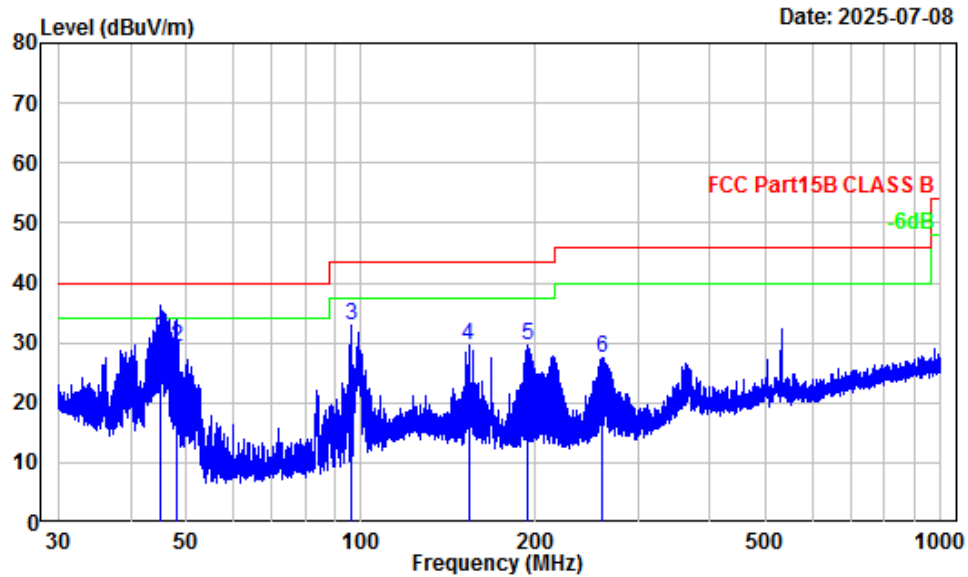
The testing was performed by Anson Su on 2025-07-08.

*Test Mode: Playing***30 MHz~1 GHz****Horizontal**

Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501U01816E-EM
Test Mode : Playing
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	45.06	-15.92	43.40	27.48	40.00	-12.52 Peak
2	96.01	-17.02	44.47	27.45	43.50	-16.05 Peak
3	144.15	-12.18	47.29	35.11	43.50	-8.39 Peak
4	155.02	-12.64	49.67	37.03	43.50	-6.47 Peak
5	193.77	-13.83	45.98	32.15	43.50	-11.35 Peak
6	259.80	-12.78	44.23	31.45	46.00	-14.55 Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501U01816E-EM
Test Mode : Playing
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	45.10	-15.94	47.02	31.08	40.00	-8.92	QP
2	48.04	-17.35	46.50	29.15	40.00	-10.85	QP
3	96.18	-16.98	49.74	32.76	43.50	-10.74	Peak
4	153.20	-12.55	42.18	29.63	43.50	-13.87	Peak
5	193.77	-13.83	43.50	29.67	43.50	-13.83	Peak
6	261.06	-12.66	40.27	27.61	46.00	-18.39	Peak

EUT PHOTOGRAPHS

Please refer to the attachment 2501U01816E-EM External photo and 2501U01816E-EM Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501U01816E-EM Test Setup photo.

******* END OF REPORT *******