FCC Test Report

APPLICANT	:	Lenovo(Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT	:	Portable Tablet Computer
BRAND NAME	:	Lenovo
MODEL NAME	:	TB361ZU
FCC ID	:	O57TB361ZU
STANDARD	:	47 CFR Part 15 Subpart B
CLASSIFICATION	:	Certification
TEST DATE(S)	:	Jul. 02, 2025 ~ Jul. 06, 2025

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC560902	Rev. 01	Initial issue of report	Jul. 29, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 6.91 dB at 0.49 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 6.67 dB at 55.22 MHz

Conformity Assessment Condition:
The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section “Measurement Uncertainty”.
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1. General Description

1.1. Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.
Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

1.2. Manufacturer

Lenovo PC HK Limited
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	TB361ZU
FCC ID	O57TB361ZU
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE GNSS
IMEI Code	Conduction: 867009070018638 for Sample1 867009070012433 for Sample2 867009070015691 for Sample3 867009070008837 for Sample4 Radiation: 867009070018638 for Sample1 867009070012433 for Sample2 867009070008837 for Sample3 867009070015907 for Sample4
HW Version	TB361ZU
SW Version	Lenovo ZUI 17.0
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are four types of EUT, the differences could be referred to the Product Equality Declaration which is exhibit separately. According to the difference, we choose sample 1 to full test and the sample 2/3/4 is verified for the difference.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV : 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77 : 3450 MHz ~ 3980 MHz; 5G NR n78 : 3450 MHz ~ 3800 MHz; 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Rx Frequency	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band IV : 2110 MHz ~ 2155 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 26 : 859 MHz ~ 894 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n26 : 859 MHz ~ 894 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n71 : 617 MHz ~ 652 MHz 5G NR n77 : 3450 MHz ~ 3980 MHz; 5G NR n78 : 3450 MHz ~ 3800 MHz; 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS : 1559 MHz ~ 1610 MHz
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna

	Bluetooth : PIFA Antenna GNSS: PIFA Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM / 256QAM 5G NR: DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) :π/4-DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK

1.5. Modification of EUT

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

1.6. Test Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO02-SZ; 03CH05-SZ	CN1256	421272

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

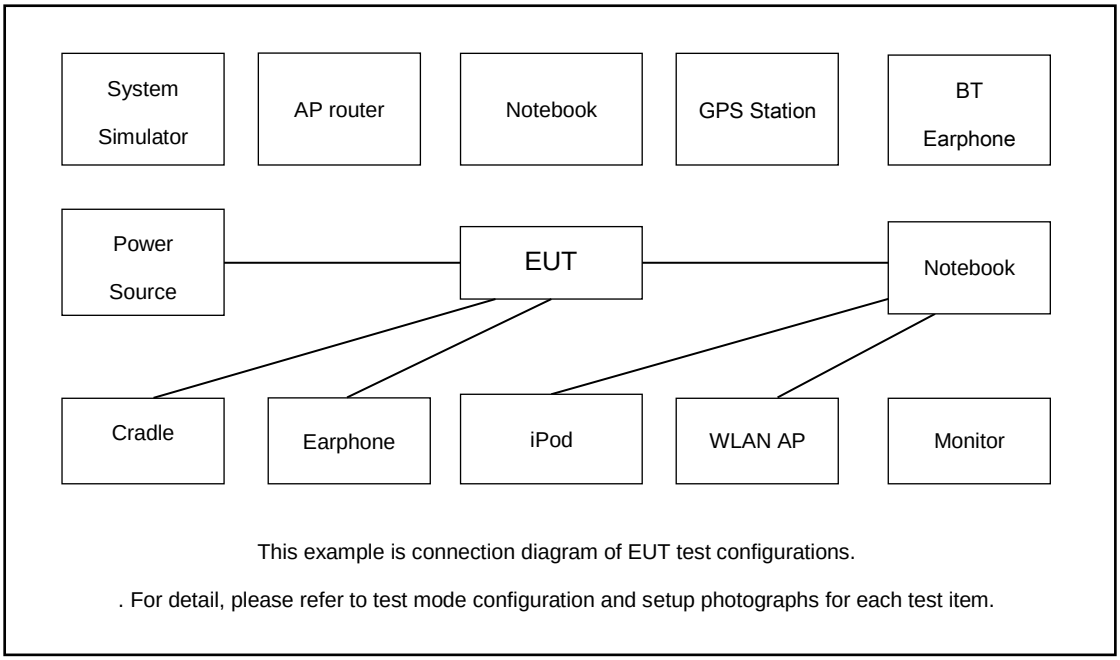
Test Items	Function Type
AC Conducted Emission	Mode 1 : GSM 850 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Battery 1 + USB Cable 1(Charging from Adapter1) + SIM1 for Sample 1 Mode 2 : LTE Band 5 Rx(Middle)+ Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Battery 1 + USB Cable2 (Charging from Adapter2)+ SIM2 for Sample 1 Mode 3 : LTE Band 26Rx(High) + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + EUT (eMMC) USB Data Link to PC/NB for Sample 1 Mode 4 : NR n5 Rx(High) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + PC/NB USB Data Link to EUT (eMMC) for Sample1 Mode 5 : NR n26 Rx(High) +Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + EUT (SD) USB Data Link to PC/NB for Sample1 Mode 6 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + PC/NB USB Data Link to EUT (SD) for Sample1 Mode 7 : LTE Band 5 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Battery 1 + USB Cable2 (Data Link with Notebook) + SIM 2 + EUT (eMMC) USB Data Link to PC/NB for Sample1 Mode 8 : LTE Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Rear or Front) + Battery 2 + USB Cable 2(Charging from Adapter 2) + SIM 2 for Sample2 Mode 9 : LTE Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + MPEG4(Run Color Bar) + Battery 2 + USB Cable1 (Data Link with Notebook) + SIM 2 + PC/NB USB Data Link to EUT (eMMC) for Sample2 Mode 10 : LTE Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + PC/NB USB Data Link to EUT (eMMC) for Sample3 Mode 11 : LTE Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Battery 2 + USB Cable1 (Data Link with Notebook) + SIM 2 + PC/NB USB Data Link to EUT (eMMC) for Sample4 Mode 12 : LTE Band 5 Rx(Middle) + With pen 1（BT Link）& Keyboard Open the stand + WLAN (5G) Idle +H-pattern + SIM 2 + Battery 1 + USB Cable2 (Charging from Adapter2 for Sample1 Mode 13 : LTE Band 5 Rx(Middle) + With pen 2 & Keyboard Open the stand + Bluetooth Idle + WLAN (5G) Idle +H-pattern + SIM 2 + Battery 1 + USB Cable2 (Charging from Adapter2 for Sample1

Radiated Emissions	Mode 1 : GSM 850 Rx(Middle) + Bluetooth Link + WLAN (2.4G) Link + Camera(Rear) + Battery 1 + USB Cable 1(Charging from Adapter1) + SIM 1 for Sample1 Mode 2 : LTE Band 5 Rx(Middle) + Bluetooth Link + WLAN (5G) Link + Camera(Front) + Battery 1 + USB Cable2 (Charging from Adapter2) + SIM 2 for Sample1 Mode 3 : LTE Band 26Rx(High) + Bluetooth Link + WLAN (5G Band IV) Link + MPEG4(Run Color Bar) + Battery 1 + USB Cable 2 (Charging from Adapter2) + SIM 2 for Sample1 Mode 4 : NR n5 Rx(High) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + EUT (eMMC) USB Data Link to PC/NB for Sample1 Mode 5 : NR n26 Rx(High) +Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + PC/NB USB Data Link to EUT (eMMC) for Sample1 Mode 6 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + EUT (SD) USB Data Link to PC/NB for Sample1 Mode 7 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Battery 1 + USB Cable1 (Data Link with Notebook) + SIM 2 + PC/NB USB Data Link to EUT (SD) for Sample1 Mode 8 : NR n71 Rx(Low) + Bluetooth Link + WLAN (5G) Link + GNSS Rx + Battery 1 + USB Cable2 (Data Link with Notebook) + SIM 2 for Sample1 Mode 9 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Battery 1 + OTG Cable With U Disk (R/W) Type-C Port + SIM 2 for Sample1 Mode 10 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Battery 1 + SIM 2 for Sample1 Mode 11 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Battery 2 + USB Cable 2 (Charging from Adapter2) + SIM 2 for Sample2 Mode 12 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Battery 2 + USB Cable 1 (Data Link with Notebook) + SIM 2 for Sample2 Mode 13 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Battery 1 + USB Cable 1 (Data Link with Notebook) + SIM 2 for Sample3 Mode 14 : NR n71 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Battery 2 + USB Cable 1 (Data Link with Notebook) + SIM 2 for Sample4 Mode 15 : NR n71 Rx(Low) + With pen 1（BT Link）& Keyboard Open the stand + WLAN (2.4G) Idle +H-pattern + Earphone for Sample1 Mode 16 : NR n71 Rx(Low) + With pen 2 & Keyboard Open the stand + WLAN (2.4G) Idle +H-pattern + Earphone for Sample1

Remark:

1. The worst case of AC is mode 2; only the test data of this mode is reported.
2. The worst case of RE is mode 4; only the test data of this mode is reported.
3. Data Link with Notebook means data application transferred mode between EUT and Notebook.
4. Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.

2.2. Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Base Station(5G)	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
3.	Base Station(5G)	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
4.	GPS Station	Labsat	RLLS03-2P	N/A	N/A	Unshielded,1.8m
5.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded,1.8m
6.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
7.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m with Core
8.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded,1.8m
9.	Notebook	Thinkpad	Thinkpad E14	N/A	N/A	N/A
10.	Ipod	apple	MC69029/A	N/A	N/A	N/A
11.	IPod	Apple	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A
12.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
13.	Mobile phone	Lenovo	N/A	N/A	N/A	N/A
14.	Earphone	beisi	N/A	N/A	N/A	N/A

15.	SD Card	N/A	N/A	N/A	N/A	N/A
16.	OTG cable	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or LTE or 5G NR idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

The EUT was attached to the Bluetooth earphone, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between notebook and EUT via USB cable.
2. Turn on camera to capture images.
3. Turn on MPEG4 function.
4. Execute "Music Player" to play MPEG4 file.
5. Execute "H Pattern" to show H Pattern via USB Cable on the Notebook.
6. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

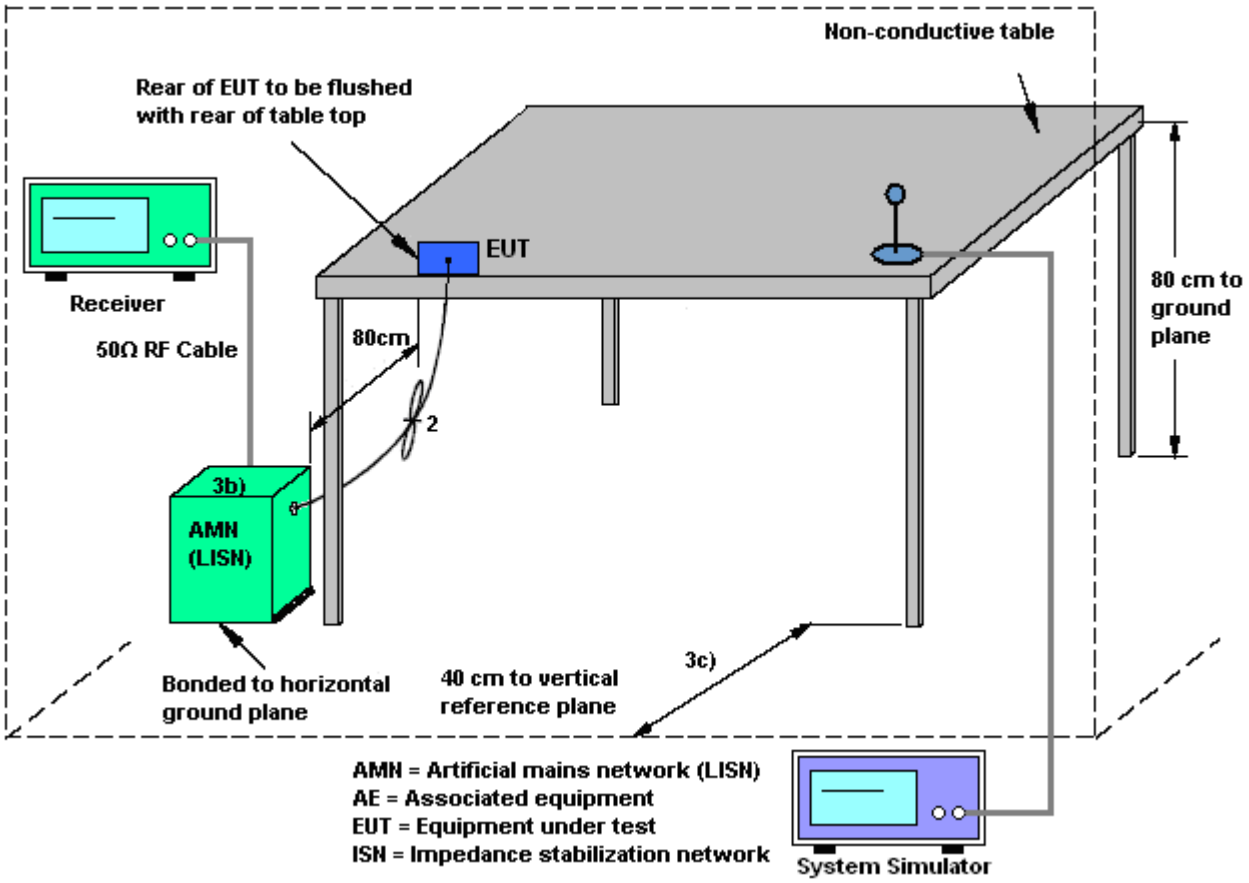
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

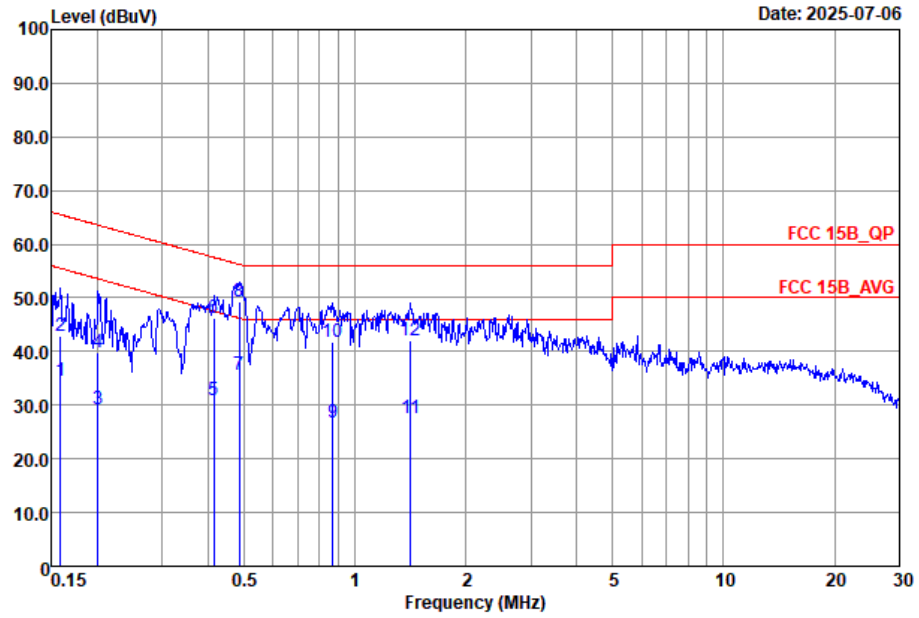
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

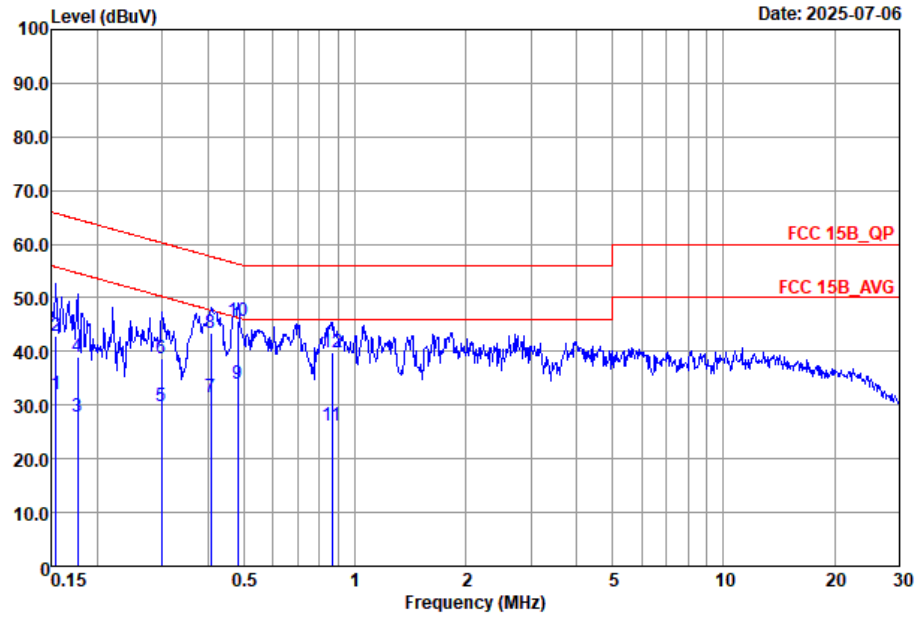
Test Engineer :	Nathon	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15B_QP LISN_2025-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	34.46	-21.06	55.52	14.60	9.67	10.19	Average
2	0.16	42.96	-22.56	65.52	23.10	9.67	10.19	QP
3	0.20	29.19	-24.39	53.58	9.30	9.71	10.18	Average
4	0.20	39.89	-23.69	63.58	20.00	9.71	10.18	QP
5	0.41	31.03	-16.52	47.55	11.09	9.71	10.23	Average
6	0.41	46.13	-11.42	57.55	26.19	9.71	10.23	QP
7	0.49	35.62	-10.61	46.23	15.70	9.68	10.24	Average
8 *	0.49	49.32	-6.91	56.23	29.40	9.68	10.24	QP
9	0.87	26.70	-19.30	46.00	6.81	9.66	10.23	Average
10	0.87	41.90	-14.10	56.00	22.01	9.66	10.23	QP
11	1.42	27.51	-18.49	46.00	7.60	9.66	10.25	Average
12	1.42	42.11	-13.89	56.00	22.20	9.66	10.25	QP

Test Engineer :	Nathon	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15B_QP LISN_2025-N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	32.09	-23.65	55.74	12.30	9.60	10.19	Average
2	0.15	42.99	-22.75	65.74	23.20	9.60	10.19	QP
3	0.18	27.96	-26.68	54.64	8.00	9.78	10.18	Average
4	0.18	38.96	-25.68	64.64	19.00	9.78	10.18	QP
5	0.30	29.81	-20.47	50.28	9.70	9.90	10.21	Average
6	0.30	38.61	-21.67	60.28	18.50	9.90	10.21	QP
7	0.41	31.38	-16.35	47.73	11.29	9.86	10.23	Average
8	0.41	43.38	-14.35	57.73	23.29	9.86	10.23	QP
9	0.48	34.08	-12.24	46.32	13.80	10.04	10.24	Average
10 *	0.48	45.78	-10.54	56.32	25.50	10.04	10.24	QP
11	0.87	26.17	-19.83	46.00	6.20	9.74	10.23	Average
12	0.87	39.97	-16.03	56.00	20.00	9.74	10.23	QP

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

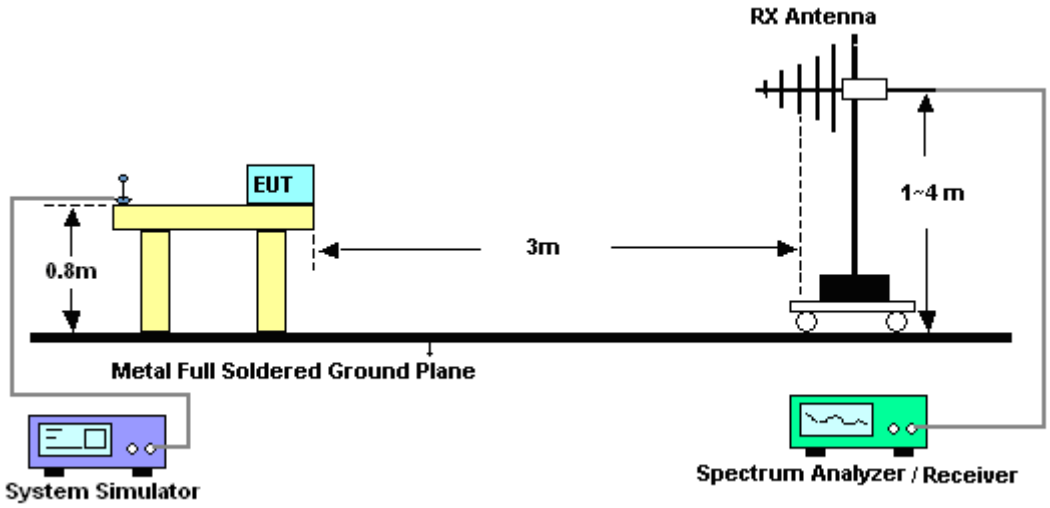
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

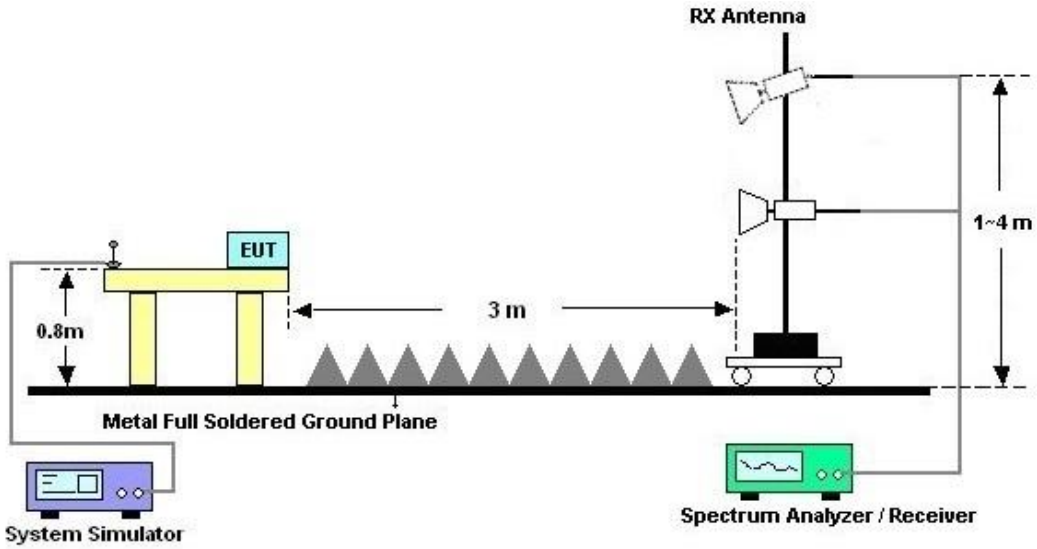
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

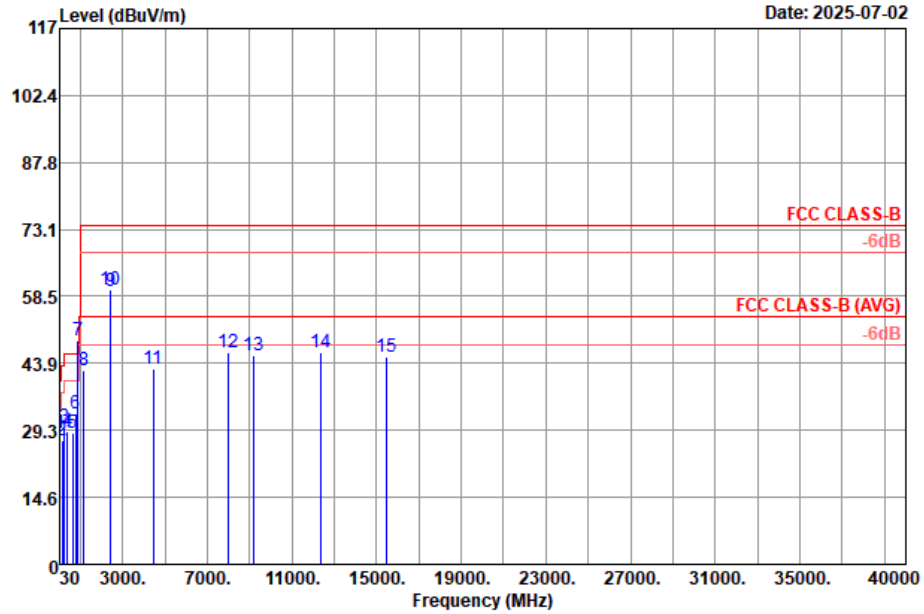


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

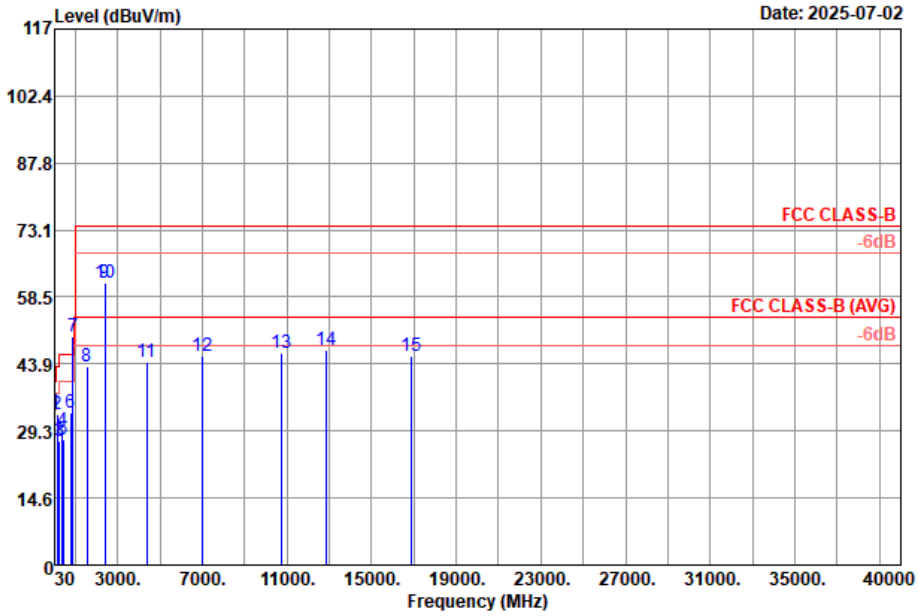
Test Engineer :	ZhanSeng Liu	**Temperature :**	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	**Polarization :**	Horizontal
Remark :	#7, #9 and #10 are system simulator signal which can be ignored.		



Site : 03CH05-SZ
Condition : FCC CLASS-B 3m VULB9168-01001 HORIZONTAL

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		55.22	28.52	-11.48	40.00	42.24	19.59	1.69	35.00	---	---	Peak
2		163.86	27.08	-16.42	43.50	41.26	18.32	2.40	34.90	---	---	Peak
3		257.95	29.92	-16.08	46.00	43.64	18.02	3.04	34.78	---	---	Peak
4		398.60	29.16	-16.84	46.00	38.95	21.60	3.31	34.70	---	---	Peak
5		644.98	28.70	-17.30	46.00	33.04	26.40	3.66	34.40	---	---	Peak
6		796.30	32.78	-13.22	46.00	33.65	28.90	4.34	34.11	---	---	Peak
7	*	889.00	48.90			49.41	29.09	4.41	34.01	---	---	Peak
8		1160.00	42.25	-31.75	74.00	70.72	29.70	5.06	63.23	---	---	Peak
9		2437.00	59.72			83.87	32.67	7.22	64.04	---	---	Peak
10		2437.00	60.00			84.15	32.67	7.22	64.04	---	---	Peak
11		4464.00	42.83	-31.17	74.00	63.43	34.83	9.46	64.89	---	---	Peak
12		8008.00	46.17	-27.83	74.00	63.05	36.60	11.51	64.99	---	---	Peak
13		9225.00	45.71	-28.29	74.00	60.57	37.45	12.04	64.35	---	---	Peak
14		12357.00	46.15	-27.85	74.00	56.68	39.10	13.86	63.49	---	---	Peak
15		15480.00	45.21	-28.79	74.00	53.21	40.78	15.54	64.32	---	---	Peak

Test Engineer :	ZhanSeng Liu	**Temperature :**	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	**Polarization :**	Vertical
Remark :	#7, #9 and #10 are system simulator signal which can be ignored.		



Site : 03CH05-SZ
Condition : FCC CLASS-B 3m VULB9168-01001 VERTICAL

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		55.22	33.33	-6.67	40.00	47.05	19.59	1.69	35.00	---	---	Peak
2		164.83	33.06	-10.44	43.50	47.29	18.26	2.41	34.90	---	---	Peak
3		264.74	26.96	-19.04	46.00	40.41	18.25	3.07	34.77	---	---	Peak
4		398.60	29.38	-16.62	46.00	39.17	21.60	3.31	34.70	---	---	Peak
5		450.01	27.30	-18.70	46.00	35.42	23.01	3.47	34.60	---	---	Peak
6		796.30	33.39	-12.61	46.00	34.26	28.90	4.34	34.11	---	---	Peak
7	*	889.00	49.85			50.36	29.09	4.41	34.01	---	---	Peak
8		1552.00	43.30	-30.70	74.00	71.11	29.60	5.92	63.33	---	---	Peak
9		2402.00	61.75			85.98	32.60	7.17	64.00	---	---	Peak
10		2437.00	61.46			85.61	32.67	7.22	64.04	---	---	Peak
11		4392.00	44.25	-29.75	74.00	64.92	34.60	9.59	64.86	---	---	Peak
12		7024.00	45.52	-28.48	74.00	63.16	36.30	11.16	65.10	---	---	Peak
13		10719.00	46.32	-27.68	74.00	57.74	38.30	13.39	63.11	---	---	Peak
14		12879.00	46.88	-27.12	74.00	56.70	39.48	14.10	63.40	---	---	Peak
15		16857.00	45.50	-28.50	74.00	53.75	41.91	15.27	65.43	---	---	Peak

Note:

1. Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 02, 2025	Jul. 02, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 02, 2025	Jul. 02, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2024	Jul. 02, 2025	Jul. 07, 2025	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 02, 2025	Jul. 02, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Jul. 02, 2025	Jul. 03, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060779	1GHz~18GHz	Dec. 25, 2024	Jul. 02, 2025	Dec. 24, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 03, 2025	Jul. 02, 2025	Apr. 02, 2026	Radiation (03CH05-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	00983	15GHz~40GHz	Apr. 03, 2025	Jul. 02, 2025	Apr. 02, 2027	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 14, 2024	Jul. 02, 2025	Oct. 13, 2025	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Jul. 02, 2025	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Jul. 02, 2025	NCR	Radiation (03CH05-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 02, 2025	Jul. 06, 2025	Jul. 01, 2026	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 02, 2025	Jul. 06, 2025	Jul. 01, 2026	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec. 25, 2024	Jul. 06, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
Thermo meter	Anymetre	JR593	#14	- 10℃ ～ 50℃ 10%RH~99%RH	Jul. 04, 2025	Jul. 06, 2025	Jul. 03, 2026	Conduction (CO02-SZ)

NCR: No Calibration Required

5. Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.5 dB**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.2 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.1 dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.1 dB**

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