

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-25O-RWD-010

Reception No. : 2509003014

Applicant : UNION biometrics Co., Ltd.

Address : 12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu, Seoul, South Korea

Manufacturer : UNION biometrics Co., Ltd.

Address : 12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu, Seoul, South Korea

Type of Equipment : Access controller

FCC ID. : XX2-U-AC2000

Model Name : AC-2000

Multiple Model Name : N/A

Serial number : N/A

Total page of Report : 25 pages (including this page)

Date of Incoming : September 05, 2025

Date of issue : October 15, 2025

SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).



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CONTENTS**PAGE**

1. VERIFICATION OF COMPLIANCE	5
2. TEST SUMMARY	6
2.1 TEST ITEMS AND RESULTS	6
2.2 ADDITIONS, DEVIATIONS, EXCLUSIONS FROM STANDARDS.....	6
2.3 RELATED SUBMITTAL(S) / GRANT(S)	6
2.4 PURPOSE OF THE TEST	6
2.5 TEST METHODOLOGY.....	6
2.6 TEST FACILITY.....	6
3. GENERAL INFORMATION.....	7
3.1 PRODUCT DESCRIPTION.....	7
3.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT.....	7
4. EUT MODIFICATIONS.....	7
5. SYSTEM TEST CONFIGURATION	8
5.1 JUSTIFICATION.....	8
5.2 PERIPHERAL EQUIPMENT	8
5.3 MODE OF OPERATION DURING THE TEST	9
5.4 CONFIGURATION OF TEST SYSTEM.....	10
5.5 ANTENNA REQUIREMENT	10
6. PRELIMINARY TEST	10
6.1 AC POWER LINE CONDUCTED EMISSIONS TESTS.....	10
6.2 GENERAL RADIATED EMISSIONS TESTS	10
7. MIMIMUM 6 DB BANDWIDTH	11
7.1 OPERATING ENVIRONMENT	11
7.2 TEST SET-UP	11
7.3 MEASUREMENT UNCERTAINTY	11
7.4 TEST DATE	11
7.5 TEST DATA.....	11
8. MAXIMUM CONDUCTED(PEAK) OUTPUT POWER.....	12
8.1 OPERATING ENVIRONMENT	12
8.2 TEST SET-UP	12
8.3 MEASUREMENT UNCERTAINTY	12
8.4 TEST DATE	12

8.5 TEST DATA.....	12
9. 100 KHZ BANDWIDTH OUTSIDE THE FREQUENCY BAND.....	13
9.1 OPERATING ENVIRONMENT	13
9.2 TEST SET-UP FOR CONDUCTED MEASUREMENT	13
9.3 TEST SET-UP FOR RADIATED MEASUREMENT.....	13
9.4 MEASUREMENT UNCERTAINTY	13
9.5 TEST DATE	13
9.6 TEST DATA FOR CONDUCTED EMISSION	13
9.7 TEST DATA FOR RADIATED EMISSION.....	14
9.7.1 Radiated Emission which fall in the Restricted Band.....	14
9.7.2 Spurious & Harmonic Radiated Emission.....	15
10. POWER SPECTRAL DENSITY	17
10.1 OPERATING ENVIRONMENT	17
10.2 TEST SET-UP	17
10.3 MEASUREMENT UNCERTAINTY	17
10.4 TEST DATE	17
10.5 TEST DATA.....	17
11. RADIATED EMISSION TEST	18
11.1 OPERATING ENVIRONMENT	18
11.2 TEST SET-UP	18
11.3 MEASUREMENT UNCERTAINTY	19
11.4 TEST DATE	19
11.5 TEST DATA FOR 30 MHz ~ 1 000 MHz	20
11.6 TEST DATA FOR BELOW 30 MHz	21
11.7 TEST DATA FOR ABOVE 1 GHz	21
12. CONDUCTED EMISSION TEST	22
12.1 OPERATING ENVIRONMENT	22
12.2 TEST SET-UP	22
12.3 MEASUREMENT UNCERTAINTY	22
12.4 TEST DATE	22
12.5 TEST DATA.....	23
13. LIST OF TEST EQUIPMENT	25

※ Please refer to the Annex section for All test plots

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-25O-RWD-010	October 15, 2025	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : UNION biometrics Co., Ltd.

Address : 12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu, Seoul, South Korea

Contact Person : Dong Ho Lee

Telephone No. : +82-2-6488-3054

FCC ID : XX2-U-AC2000

Model Name : AC-2000

Brand Name :

Serial Number : N/A

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Access controller
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The UNION biometrics Co., Ltd., Model AC-2000 (referred to as the EUT in this report) is a Access controller. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Access controller
OPERATING FREQUENCY	Bluetooth LE 1 Mbps: 2 402 MHz ~ 2 480 MHz
	RFID: 13.56 MHz
MODULATION TYPE	Bluetooth LE 1 Mbps: GFSK
	RFID: ASK
RF OUTPUT POWER	Bluetooth LE 1 Mbps: 2.21 dBm
ANTENNA TYPE	PCB Antenna
ANTENNA GAIN	2.88 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	8 MHz, 27.12 MHz, 400 MHz
RATED SUPPLY VOLTAGE	DC 12.0 V

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	N/A	PF2200MA01	N/A
SUB Board 1	N/A	PF2000iC01	N/A
SUB Board 2	N/A	PFCS02NMA01	N/A
SUB Board 3	N/A	PFFOS02TS03	N/A
SUB Board 4	N/A	PFT1SA01	N/A
Bluetooth Module	N/A	PBLN51822m-R	N/A
13.56 MHz Antenna Board	N/A	PC10SR01	N/A

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
AC-2000	UNION biometrics Co., Ltd.	Access controller (EUT)	-
GP-4303D	LG Precision Co.,Ltd	DC Power Supply	EUT
Probook 450 G7	HP	Notebook PC	EUT

5.3 Mode of operation during the test

-. Channel List (Bluetooth LE)

Channel	Frequency[MHz]	Channel	Frequency[MHz]	Channel	Frequency[MHz]
0	2 402.00	14	2 430.00	28	2 458.00
1	2 404.00	15	2 432.00	29	2 460.00
2	2 406.00	16	2 434.00	30	2 462.00
3	2 408.00	17	2 436.00	31	2 464.00
4	2 410.00	18	2 438.00	32	2 466.00
5	2 412.00	19	2 440.00	33	2 468.00
6	2 414.00	20	2 442.00	34	2 470.00
7	2 416.00	21	2 444.00	35	2 472.00
8	2 418.00	22	2 446.00	36	2 474.00
9	2 420.00	23	2 448.00	37	2 476.00
10	2 422.00	24	2 450.00	38	2 478.00
11	2 424.00	25	2 452.00	39	2 480.00
12	2 426.00	26	2 454.00		
13	2 428.00	27	2 456.00		

-. Duty Cycle

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
Bluetooth LE	0.639	0.611	51.14	2.91

Note – Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) * 100

Correction Factor : $10 * \log(1 / (\text{Duty Cycle} / 100))$

5.4 Configuration of Test System

Line Conducted Test : The EUT was connected to adaptor and the power of adaptor was connected to LISN. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Construction:

The antenna of the EUT is a PCB Antenna on the main board in the EUT, so no consideration of replacement by the user.

6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

6.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

7. MINIMUM 6 dB BANDWIDTH

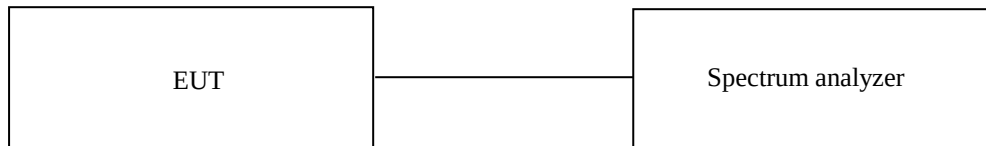
7.1 Operating environment

Temperature : 25 °C

Relative humidity : 48 % R.H.

7.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



7.3 Measurement uncertainty

The uncertainty for Minimum 6 dB bandwidth is $\pm 5\,929.54$ Hz

7.4 Test date

September 12, 2025 ~ September 29, 2025

7.5 Test data

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (kHz)	LIMIT (kHz)	Margin (kHz)
Low	2 402.00	669.95	500.00	169.95
Middle	2 440.00	720.13	500.00	220.13
High	2 480.00	695.04	500.00	195.04

Remark. Margin = Measured Value – Limit

8. MAXIMUM CONDUCTED(PEAK) OUTPUT POWER

8.1 Operating environment

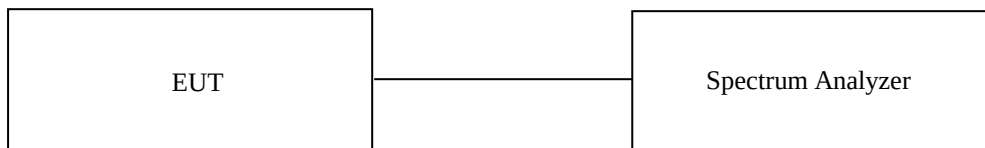
Temperature : 25 °C

Relative humidity : 48 % R.H.

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to 1 MHz, the video bandwidth is set to 3 times the resolution bandwidth.



8.3 Measurement uncertainty

The uncertainty for Maximum conducted(Peak) output power is ± 1.22 dBm

8.4 Test date

September 12, 2025 ~ September 29, 2025

8.5 Test data

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	1.79	30.00	28.21
MIDDLE	2 440.00	2.21	30.00	27.79
HIGH	2 480.00	1.35	30.00	28.65

Remark. Margin = Limit –Measured Value

9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

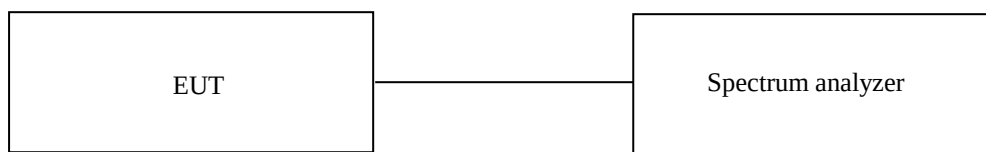
9.1 Operating environment

Temperature : 25 °C

Relative humidity : 48 % R.H.

9.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz and video bandwidth is set to 300 kHz, and peak detection was used.



9.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

9.4 Measurement uncertainty

The uncertainty for 100 kHz bandwidth outside the frequency band is ± 1.40 dBm

9.5 Test date

September 12, 2025 ~ September 29, 2025

9.6 Test data for conducted emission

Please refer to the Annex

9.7 Test data for radiated emission

9.7.1 Radiated Emission which fall in the Restricted Band

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 51.14 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Gain (dB)	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 384.49	61.92	Peak	H	27.43	6.44	42.36	6.10	-	59.53	74.00	14.47
2 384.49	42.66	Average	H	27.43	6.44	42.36	6.10	2.91	43.18	54.00	10.82
2 384.49	60.53	Peak	V	27.43	6.44	42.36	6.10	-	58.14	74.00	15.86
2 384.40	42.41	Average	V	27.43	6.44	42.36	6.10	2.91	42.93	54.00	11.07
Test Data for High Channel											
2 483.51	65.74	Peak	H	27.40	6.51	42.39	6.10	-	63.36	74.00	10.64
2 483.83	43.91	Average	H	27.40	6.51	42.39	6.10	2.91	44.44	54.00	9.56
2 483.51	65.51	Peak	V	27.40	6.51	42.39	6.10	-	63.13	74.00	10.87
2 483.51	43.50	Average	V	27.40	6.51	42.39	6.10	2.91	44.03	54.00	9.97

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss + ATT + Duty Factor – AMP Gain

9.7.2 Spurious & Harmonic Radiated Emission

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 51.14 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Gain (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	53.91	Peak	H	31.30	10.18	42.62	-	52.77	74.00	21.23
4 804.00	44.09	Average	H	31.30	10.18	42.62	2.91	45.86	54.00	8.14
4 804.00	56.38	Peak	V	31.30	10.18	42.62	-	55.24	74.00	18.76
4 804.00	46.39	Average	V	31.30	10.18	42.62	2.91	48.16	54.00	5.84
7 206.00	51.28	Peak	H	36.22	12.70	43.06	-	57.14	74.00	16.86
7 206.00	38.80	Average	H	36.20	12.70	43.06	2.91	47.55	54.00	6.45
7 206.00	51.73	Peak	V	36.21	12.70	43.06	-	57.58	74.00	16.42
7 206.00	40.20	Average	V	36.21	12.70	43.06	2.91	48.96	54.00	5.04
Test Data for Middle Channel										
4 880.00	52.86	Peak	H	31.36	10.12	42.65	-	51.69	74.00	22.31
4 880.00	39.91	Average	H	31.36	10.12	42.65	2.91	41.65	54.00	12.35
4 880.00	56.36	Peak	V	31.36	10.12	42.65	-	55.19	74.00	18.81
4 880.00	44.03	Average	V	31.36	10.12	42.65	2.91	45.77	54.00	8.23
7 320.00	51.02	Peak	H	36.44	12.76	43.07	-	57.15	74.00	16.85
7 320.00	38.71	Average	H	36.44	12.76	43.07	2.91	47.75	54.00	6.25
7 320.00	51.06	Peak	V	36.44	12.76	43.07	-	57.19	74.00	16.81
7 320.00	39.29	Average	V	36.44	12.76	43.07	2.91	48.33	54.00	5.67

Test Data for High Channel										
4 960.00	52.02	Peak	H	31.54	10.55	42.68	-	51.43	74.00	22.57
4 960.00	40.21	Average	H	31.54	10.55	42.68	2.91	42.53	54.00	11.47
4 960.00	56.51	Peak	V	31.54	10.55	42.68	-	55.92	74.00	18.08
4 960.00	43.34	Average	V	31.54	10.55	42.68	2.91	45.66	54.00	8.34
7 440.00	51.89	Peak	H	36.60	13.13	43.08	-	58.54	74.00	15.46
7 440.00	38.92	Average	H	36.60	13.13	43.08	2.91	48.48	54.00	5.52
7 440.00	51.08	Peak	V	36.60	13.13	43.08	-	57.73	74.00	16.27
7 440.00	39.22	Average	V	36.60	13.13	43.08	2.91	48.78	54.00	5.22

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss + Duty Factor – AMP Gain

10. POWER SPECTRAL DENSITY

10.1 Operating environment

Temperature : 25 °C

Relative humidity : 48 % R.H.

10.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$, the video bandwidth is set to 3 times the resolution bandwidth.



10.3 Measurement uncertainty

The uncertainty for Power spectral density is $\pm 1.22 \text{ dB}$

10.4 Test date

September 12, 2025 ~ September 29, 2025

10.5 Test data

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm / 3 kHz)	MARGIN (dB)
LOW	2 402.00	-11.74	8.00	19.74
MIDDLE	2 440.00	-11.85	8.00	19.85
HIGH	2 480.00	-11.84	8.00	19.84

Remark. Margin = Limit – Measured Value

11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature : 25 °C

Relative humidity : 48 % R.H.

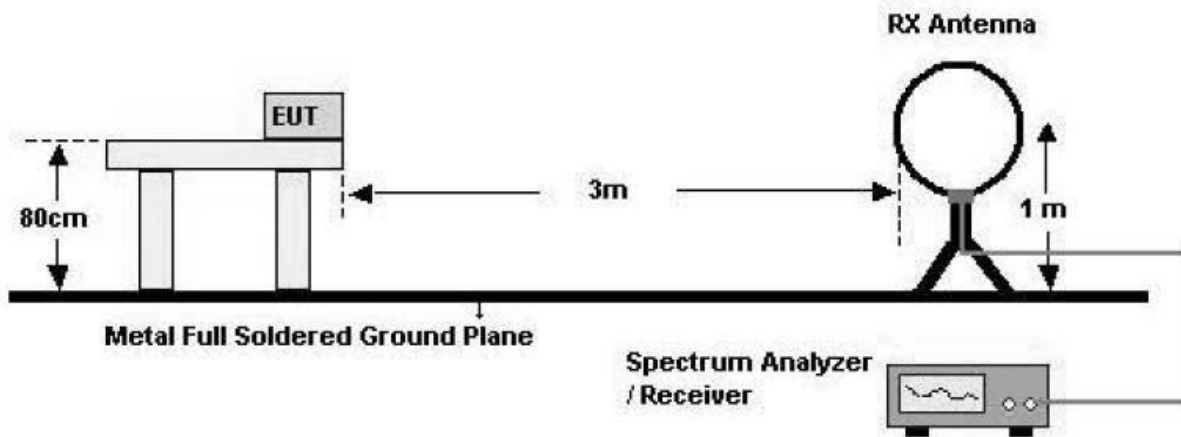
11.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

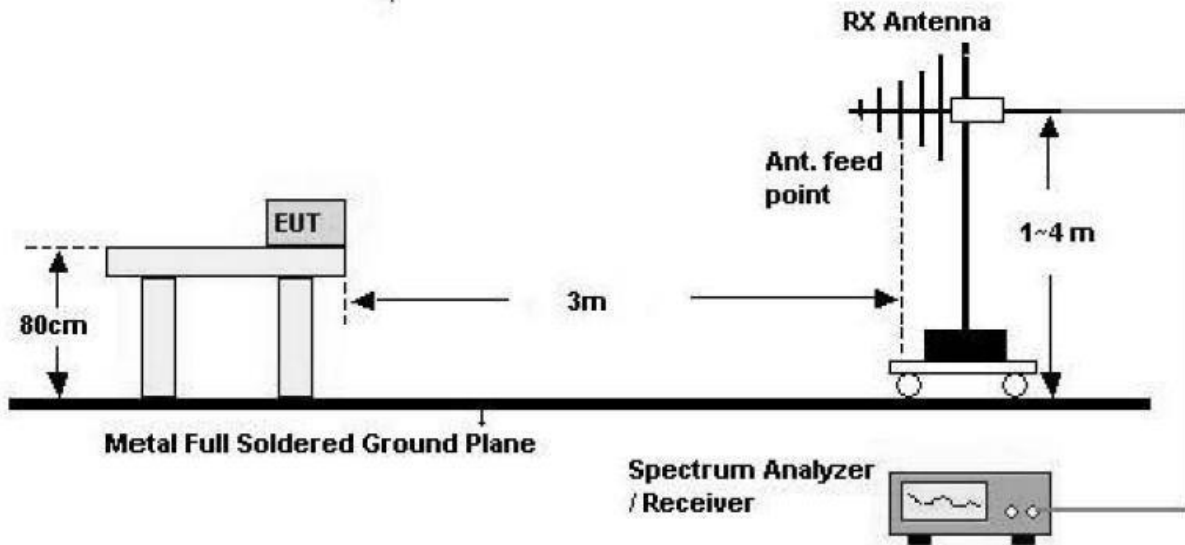
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

- Test Configuration

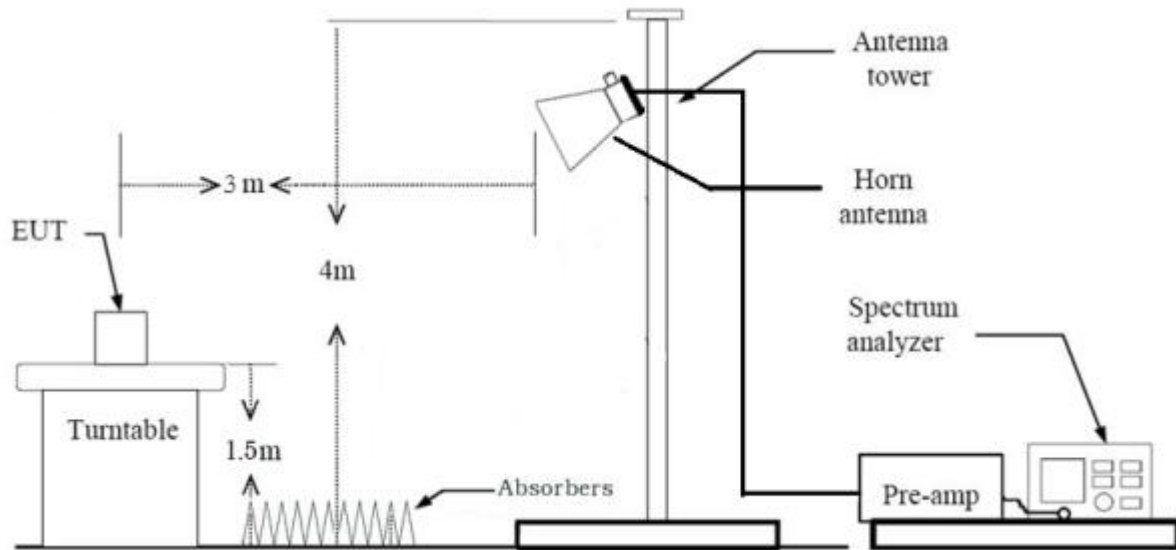
1. Below 30 MHz



2. 30 MHz - 1 GHz



3. Above 1 GHz



11.3 Measurement uncertainty

The uncertainty for Radiated emission test is ± 3.28 dB below 30 MHz

The uncertainty for Radiated emission test is ± 4.42 dB in 30 MHz ~ 1GHz

The uncertainty for Radiated emission test is ± 5.12 dB above 1 GHz

11.4 Test date

September 12, 2025 ~ September 29, 2025

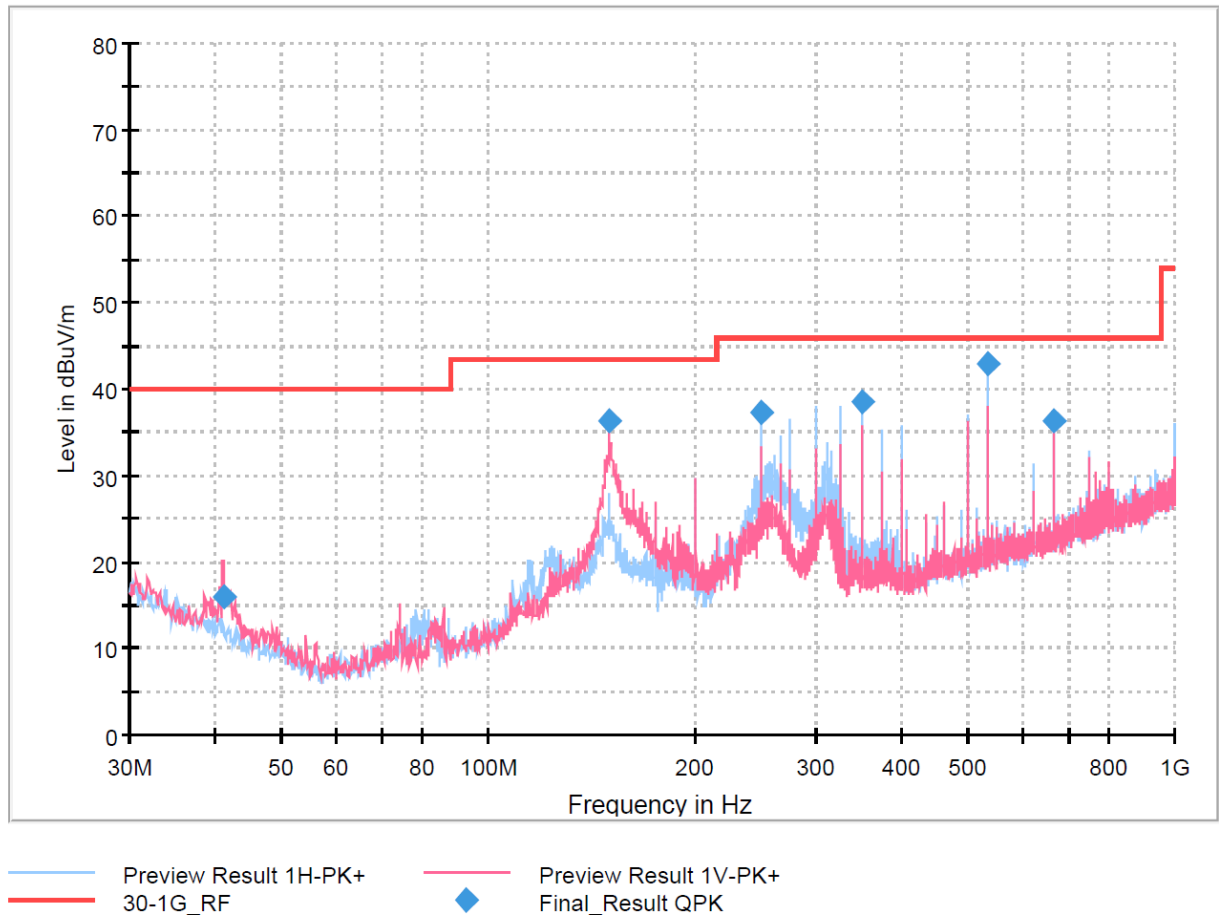
11.5 Test data for 30 MHz ~ 1 000 MHz

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : Access controller

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
41.135	15.97	40.00	24.03	3000	120	132.0	V	150
149.976	36.23	43.50	7.27	3000	120	104.0	V	251
249.968	37.42	46.00	8.58	3000	120	186.0	H	252
349.999	38.51	46.00	7.49	3000	120	100.0	H	220
533.329	43.02	46.00	2.98	3000	120	210.0	H	285
666.664	36.39	46.00	9.61	3000	120	317.0	H	280

11.6 Test data for Below 30 MHz

- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

11.7 Test data for above 1 GHz

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

12. CONDUCTED EMISSION TEST

12.1 Operating environment

Temperature : 25 °C

Relative humidity : 48 % R.H.

12.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a $50\ \Omega$ / $50\ \mu\text{H}$ + $5\ \Omega$ Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

12.3 Measurement uncertainty

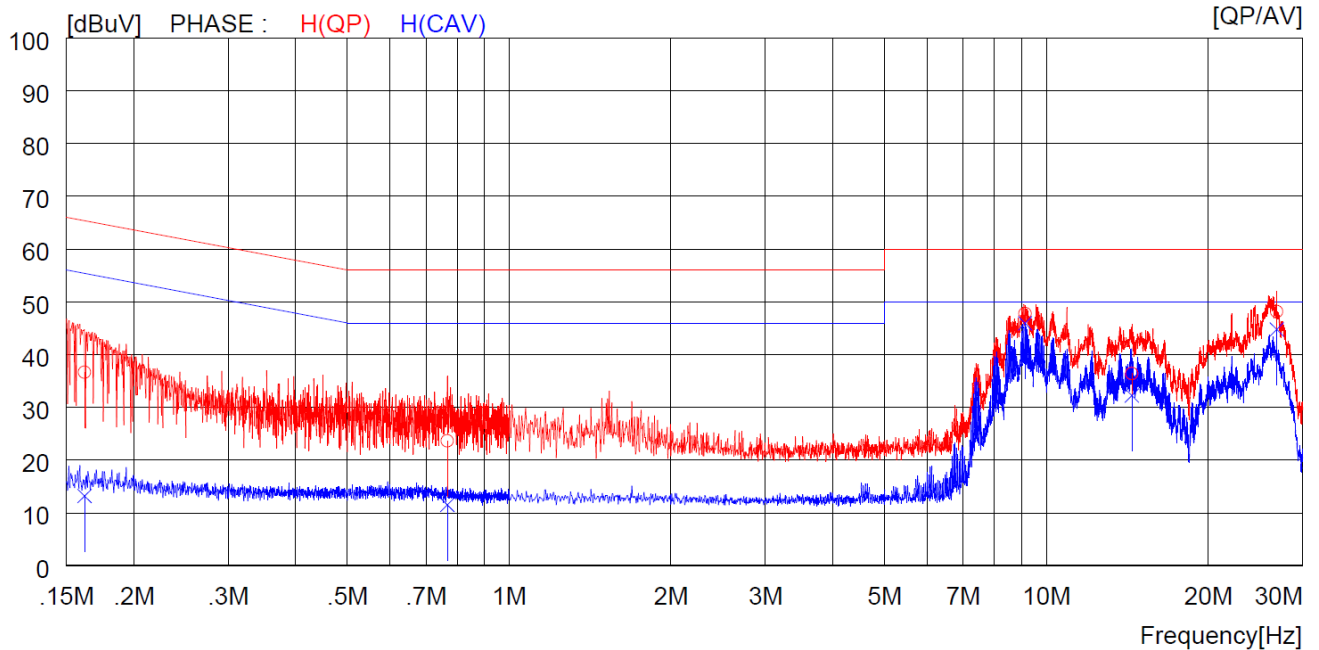
The uncertainty for Conducted emission test is $\pm 1.4\ \text{dB}$

12.4 Test date

September 12, 2025 ~ September 29, 2025

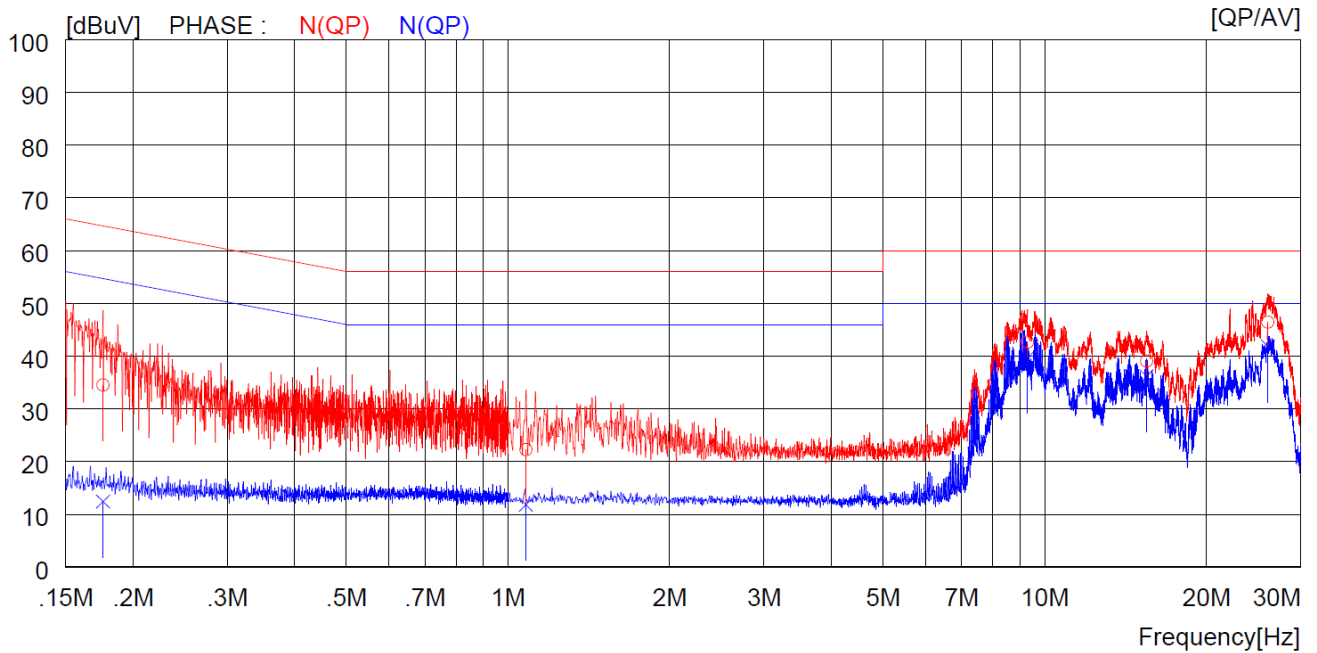
12.5 Test data

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16200	26.5	----	10.1	36.6	----	65.4	----	28.8	----	H (QP)
2	0.76700	13.5	----	10.1	23.6	----	56.0	----	32.4	----	H (QP)
3	9.12500	37.2	----	10.5	47.7	----	60.0	----	12.3	----	H (QP)
4	14.42000	25.6	----	10.8	36.4	----	60.0	----	23.6	----	H (QP)
5	26.84000	36.6	----	11.5	48.1	----	60.0	----	11.9	----	H (QP)
6	0.16200	----	3.1	10.1	----	13.2	----	55.4	----	42.2	H (CAV)
7	0.76700	----	1.4	10.1	----	11.5	----	46.0	----	34.5	H (CAV)
8	9.12500	----	35.4	10.5	----	45.9	----	50.0	----	4.1	H (CAV)
9	14.42000	----	21.4	10.8	----	32.2	----	50.0	----	17.8	H (CAV)
10	26.84000	----	33.3	11.5	----	44.8	----	50.0	----	5.2	H (CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17600	24.4	----	10.1	34.5	----	64.7	----	30.2	----	N (QP)
2	1.08000	12.1	----	10.1	22.2	----	56.0	----	33.8	----	N (QP)
3	9.28500	32.1	----	10.5	42.6	----	60.0	----	17.4	----	N (QP)
4	15.48000	28.1	----	10.9	39.0	----	60.0	----	21.0	----	N (QP)
5	26.05000	34.9	----	11.5	46.4	----	60.0	----	13.6	----	N (QP)
6	0.17600	----	2.3	10.1	----	12.4	----	54.7	----	42.3	N (CAV)
7	1.08000	----	1.7	10.1	----	11.8	----	46.0	----	34.2	N (CAV)
8	9.28500	----	29.1	10.5	----	39.6	----	50.0	----	10.4	N (CAV)
9	15.48000	----	25.2	10.9	----	36.1	----	50.0	----	13.9	N (CAV)
10	26.05000	----	30.3	11.5	----	41.8	----	50.0	----	8.2	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

13. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40	Rohde & Schwarz	Signal Analyzer	101009	Jan. 13, 2025 (1Y)
FSV3044	Rohde & Schwarz	Signal & Spectrum Analyzer	101757	Jul. 02, 2025 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	101470	Mar. 11, 2025 (1Y)
H-3005D	FinePower	DC Power Supply	FP09092008	Jan. 13, 2025 (1Y)
GP-4303D	LG Precision Co.,Ltd	DC Power Supply	5071069	Jan. 04, 2025 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 11, 2025 (1Y)
ELNA18	EXYNOD	RF Pre Amplifier	27594	Jan. 13, 2025 (1Y)
ELNA40	EXYNOD	RF Pre Amplifier	25339-27648	Jan. 15, 2025 (1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter (1-3 GHz)	N/A	Jan. 13, 2025 (1Y)
FMZB 1519-60D	Schwarzbeck	Active Magnetic Loop Antenna	00113	Jan. 17, 2025 (2Y)
HLP-2008	TDK	Hybrid Antenna	131313	Mar. 21, 2025 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jun. 19, 2025 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170179	Jan. 14, 2025 (1Y)
ESCI	Rohde & Schwarz	Test Receiver	101012	Sep. 24, 2025 (1Y)
NSLK8128	Schwarzbeck	V - LISN (4*32/50A)	8128216	Mar. 11, 2025 (1Y)
ESH3-Z2	Rohde & Schwarz	Pulse Limiter	100655	Mar. 11, 2025 (1Y)
DT3000	Innco System	Turn Table	DT3000/093	N/A
MA4000-EP	Innco System	Antenna Master	MA4000/332	N/A
CO3000	Innco System	Controller	CO3000/904	N/A