

Compliance Report

Test Report No.: TWR2606027 001 Page 1 of 1

Applicant: Shenzhen EEnovance Energy Technology CO., LTD.
Room 401, Building 2, Yufengda Industrial Park, No. 1008 Guangqiao Avenue, Yulv Community, Yutang Streets, Guangming District, Shenzhen, P.R. China

Manufacturer: Shenzhen EEnovance Energy Technology CO., LTD.
Room 401, Building 2, Yufengda Industrial Park, No. 1008 Guangqiao Avenue, Yulv Community, Yutang Streets, Guangming District, Shenzhen, P.R. China

Order No.: Q065506 **Date of receipt:** 15th 06 2026

Device under Test: Rechargeable Li-ion battery system

Model No.: E-MATE 128-A, E-MATE 80-A, E-MATE 96-A, E-MATE 112-A

Serial No.: Engineering sample of E-MATE 128-A

Place of Testing: Xingsheng Certification Service (Suzhou) Co., Ltd
Building 1, Xinjiacun Industrial Zone, Changqiao Subdistrict, Wuzhong District, Suzhou, Jiangsu, China

Test Specification: EN IEC 61000-6-2: 2019, EN IEC 61000-6-4: 2019

Test result: The referencend units are in compliance with the above requirements.

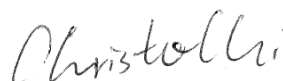
Technical Administrator:

Evelyn Hu



Reviewer:

Christo Chi



Date: 16th 06 2026

Signature:

Date: 16th 06 2026

Signature

Remark notes:

This report consists of 1 page of cover page and 1 Test Report from Xingsheng Certification Service (Suzhou) Co., Ltd (Report No.: SZ2605005E01-2.0).

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EMC TEST REPORT

Applicant	Shenzhen EEnovance Energy Technology CO., LTD
Applicant Address	Room 401, Building 2, Yufengda Industrial Park, No. 1008Guangqiao Avenue, Yulv Community, Yutang Streets,Guangming District,Shenzhen, P.R. China
Product Name	Rechargeable Li-ion Battery system
Brand Name	/
Model Name	E-MATE 128-A(E-MATE 80-A,E-MATE 96-A,E-MATE 112-A)
Received Date	May 08, 2026
Test Date	May 19, 2026 - May 20, 2026
Issue Date	Jun 11, 2026
Standard	EN IEC 61000-6-2:2019&EN IEC 61000-6-4:2019
Conclusions	In Compliance
Tested by	Tony zhang
Approved by	Black Hao
General disclaimer: The test results presented in this report refer only to the sample(s). The determination of compliance is based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. This report shall not be reproduced, except in full, without the written approval of the Xingsheng Certification Service (Suzhou) Co., Ltd.	





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Revision History

Report No.	Version	Description	Issue Date
SZ2605005E01-1.0	V1.0	Initial issue of report	Jun 4, 2026
SZ2605005E01-2.0	V2.0	Update test mode information in Section 3.3	Jun 11, 2026

**Summary of Test Results**

Emission		
Reference Standard	Test Items	Result
EN IEC 61000-6-4:2019	Radiated Emissions	PASS
EN IEC 61000-6-4:2019	Conducted Emissions	PASS
Immunity		
Reference Standard	Test Items	Result
EN IEC 61000-6-2:2019	Electrostatic discharge	PASS
EN IEC 61000-6-2:2019	Radio-frequency electromagnetic field	PASS
EN IEC 61000-6-2:2019	Fast transients	PASS
EN IEC 61000-6-2:2019	Surges	PASS
EN IEC 61000-6-2:2019	Radio-frequency common mode	PASS
EN IEC 61000-6-2:2019	Power-frequency magnetic field	PASS

1 INTRODUCTION

1.1 Test Location

Company	Xingsheng Certification Service (Suzhou) Co., Ltd
Address	Building 1, Xinjiacun Industrial Zone, Changqiao Subdistrict, Wuzhong District, Suzhou, Jiangsu, China
Post Code	215168

1.2 Test Environment

Ambient Temperature(°C)	15 °C – 35 °C
Relative Humidity(%RH)	30% - 60%
Atmospheric Pressure(kPa)	86kPa – 106kPa

1.3 Applicable Standards

Standard	Description
EN IEC 61000-6-2:2019	Electromagnetic compatibility(EMC)- Part 6-2: Generic standards - Immunity standard for industrial environments
EN IEC 61000-6-4:2019	Electromagnetic compatibility(EMC)- Part 6-4: Generic standards - Emission standard for industrial environments



1.4 Test Equipment

Radiated Emissions(30MHz-1GHz) -AC1

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	102683	2026/5/7	2027/5/6
EMI Test Receiver	R&S	ESR3	103070	2026/5/7	2027/5/6
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	01524	2025/11/13	2026/11/12
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	01589	2025/11/13	2026/11/12
Coaxial Cable	XH	RG 214	AC1-L	2025/11/4	2026/11/3
Coaxial Cable	XH	RG 214	AC1-R	2025/11/4	2026/11/3
Preamplifier	Schwarzbeck	BBV 9744	00370	2025/9/19	2026/9/18
Preamplifier	Schwarzbeck	BBV 9744	00364	2025/9/19	2026/9/18
Attenuator	SHX	TS2-6-1-B	220601221	2025/11/13	2026/11/12
Attenuator	SHX	TS2-6-1-B	220601223	2025/11/13	2026/11/12
Temperature/Humidity Meter	Anymetre	TH605F	002212260671	2026/4/29	2027/4/28
Software	XH	EMC-I	V1.5.0.21	N/A	N/A

Radiated Emissions(1GHz-6GHz) -AC1

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	102683	2026/5/7	2027/5/6
Double Ridge Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120 D	02382	2025/6/14	2026/6/13
Low Noise Amplifier	XH	LNA1845	LNA23040281	2026/4/29	2027/4/28
Coaxial Cable	XH	A81	AC1-C	2025/11/4	2026/11/3
Temperature/Humidity Meter	Anymetre	TH605F	002212260671	2026/4/29	2027/4/28
Software	XH	EMC-I	V1.5.0.21	N/A	N/A

Conducted Emissions -AC1

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
EMI Test Receiver	R&S	EPL1000	100992	2025/11/27	2026/11/26
V-LISN	Schwarzbeck	NNLK 8130	00453	2026/3/12	2027/3/11
Coaxial Cable	XH	RG 223	SR1-2	2025/11/4	2026/11/3
Temperature/Humidity Meter	Anymetre	TH605F	002212262047	2026/4/29	2027/4/28
Impedance	SHX	TF2-1-BNC	2208051002	2026/5/7	2027/5/6
Software	XH	EMC-I	V1.5.0.21	N/A	N/A



Electrostatic discharge -AC1

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
Electrostatic Simulator	AMETEK	ESD NX30	P2347281702	2026/3/16	2027/3/15
Temperature/Humidity Meter	Anymetre	TH605F	002212260647	2026/4/29	2027/4/28
Air Gauge	XLY	BARO	N/A	2026/4/29	2027/4/28

Radio-frequency electromagnetic field -AC1

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
Vector Signal Generator	R&S	SMB100B	104436	2025/11/27	2026/11/26
Average Power Sensor	R&S	NRP6A	104318	2026/5/7	2027/5/6
Average Power Sensor	R&S	NRP6A	104319	2026/5/7	2027/5/6
Power Amplifier	RFLIGHT	NTWPA-00810500	22123354	2026/5/7	2027/5/6
Power Amplifier	RFLIGHT	NTWPA-1060200P	23013003	2026/5/7	2027/5/6
Stacked Double Log.-Per.-Antenna	Schwarzbeck	STLP 9129	03055	N/A	N/A
Switch	XH	RFSW606P	/	N/A	N/A
Coaxial Cable	XH	A81	AC1-S	N/A	N/A
Temperature/Humidity Meter	Anymetre	TH605F	002212260671	2026/4/29	2027/4/28
Software	R&S	EMC32	V10.60.20	N/A	N/A

Fast transients -AC1

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
Compact Immunity Test System	3C TEST	CCS 500(1234500)	ES014000522027	2026/5/7	2027/5/6
CDN for EFT/Burst and Surge Immunity Tests	3C TEST	SEPN 15200T	ES066002022005	2026/5/7	2027/5/6
Temperature/Humidity Meter	Anymetre	TH605F	002212260668	2026/4/29	2027/4/28

Surges-AC1

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
Compact Immunity Test System	3C TEST	CCS 500(1234500)	ES014000522027	2026/5/7	2027/5/6
CDN for EFT/Burst and Surge Immunity Tests	3C TEST	SEPN 15200T	ES066002022005	2026/5/7	2027/5/6
Temperature/Humidity Meter	Anymetre	TH605F	002212260668	2026/4/29	2027/4/28

Radio-frequency common mode -AC1

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
Conducted Immunity Test System	3C TEST	CST 1075	ES096000122015	2026/5/7	2027/5/6



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Bulk Current Injection Probe	FCC	F-120-8F	198222	2026/5/7	2027/5/6
6dB Attenuator	CD	ATN-06-100	95102402006	2026/5/7	2027/5/6
Temperature/Humidity Meter	Anymetre	TH605F	002212260668	2026/4/29	2027/4/28
Software	XH	EMC-S	V2.1.2.25	N/A	N/A

Power-frequency magnetic field -SR2

Instrument	Brand	Model No.	Serial No.	Cal. Date	Cal. Due
Compact Immunity Test System	3C TEST	CCS 600(1234567)	ES014000323003	2026/5/7	2027/5/6
Power Fail and Power Frequency Magnetic Module	3C TEST	VMT 2216SV	ES047000223008	2026/5/7	2027/5/6
Power Frequency Magnetic Field Coil	3C TEST	TCXS113	TCXS22045969	2025/9/19	2026/9/18
Temperature/Humidity Meter	Anymetre	TH605F	002212260668	2026/4/29	2027/4/28

1.5 Measurement Uncertainty

ISO/EC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results should be included in the report. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Emission tests		Uncertainty
Radiated emissions; (Horz.)-AC1	30 MHz – 200 MHz	5.08dB
	200 MHz – 1000 MHz	5.12dB
	1000 MHz – 18000 MHz	4.98 dB
Radiated emissions; (Vert.)-AC1	30 MHz –200 MHz	5.36dB
	200 MHz – 1000 MHz	5.44dB
	1000 MHz – 18000 MHz	4.98 dB
Conducted Emissions	0.15MHz –30MHz	NNLK 8130: 3.24 dB

Immunity tests		Uncertainty
Electrostatic discharge		Rise Time: 6.4 % Peak Current: 6 % Current at 30 ns: 6 % Current at 60 ns: 6 %
Radio-frequency electromagnetic field	80 MHz –6000MHz	1.98dB
Fast transients		Voltage: 4 % Time: 2 %
Surges		Voltage: 4 % Time: 2 %
Radio-frequency common mode		Current clamp: 1.96dB
Power-frequency magnetic field		Voltage: 10 %

2 GENERAL INFORMATION

2.1 Applicant and Manufacturer Information

Applicant	Shenzhen EEnovance Energy Technology CO., LTD
Applicant Address	Room 401, Building 2, Yufengda Industrial Park, No. 1008Guangqiao Avenue, Yulv Community, Yutang Streets,Guangming District,Shenzhen, P.R. China
Manufacturer	Shenzhen EEnovance Energy Technology CO., LTD
Manufacturer Address	Room 401, Building 2, Yufengda Industrial Park, No. 1008Guangqiao Avenue, Yulv Community, Yutang Streets,Guangming District,Shenzhen, P.R. China

2.2 EUT Information

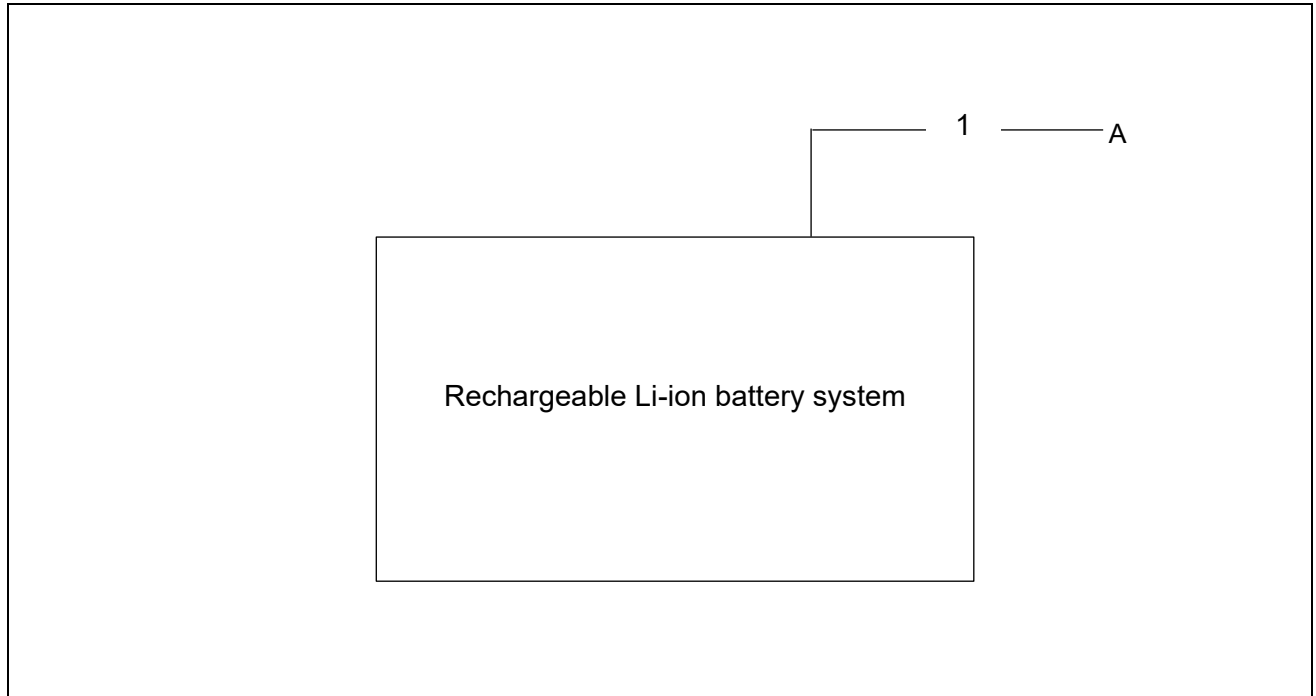
Product Name	Rechargeable Li-ion battery system
Model Name	E-MATE 128-A(E-MATE 80-A,E-MATE 96-A,E-MATE 112-A)
Hardware Version	/
Firmware Version	/
Serial Number	/
Dimensions (W x H x D)	L780±5xW1257±5xH2373.5±5mm

Note: Except that the below deviation, are identical with the original product as follows: The definition of identical should be "electrically identical". A device will be considered to be electrically identical if no changes are made to the devices' schematics, board layouts, component layouts, chip sets, resistors and all other electrical aspects of the device are identical. The model tested in this review is the E-MATE 128-A.

Rated power supply	Voltage and frequency			
	☐	AC: /		
	☐	DC: /		
	☒	Battery		
Ports	Port name and description		Cable	
			Specified length [m]	Attached during test
	DC Mains		3.0	☐
Mounting position:	☐	Table top equipment		
	☐	Wall/Ceiling mounted equipment		
	☒	Floor standing equipment		
	☐	Hand-held equipment		
	☐	Other:		

3 TEST CONFIGURATION

3.1 Test Setup Diagram



3.2 Support Equipment

No.	Equipment	Brand	Model	Remarks
A	TWO-WAY PROGRAMMABLE DC POWER SUPPLY	SINO SEA ELECPOWER	DPDCS-1500-300	/

No.	Descriptions	Length	Shielded	Remarks
1	DC Mains	3.0m	No	/

3.3 Worst case configuration and mode

Operating modes	Description
Mode 1(Charging mode)	The device is connected to a DC power supply. The DC power supply is set to 460.8 V,139.5A. The indicator light turns on, and the EUT enters the full-power charging state (64307.2Wh).
Mode 2(Discharging mode)	The device is connected to a DC power supply. The DC power supply is set to 345.6 V,186.1A. The indicator light turns on, and the EUT enters the full-power discharging state (64307.2Wh).

Applied for testing-Emission	
Operating Mode	Test Items
Mode 1& Mode 2	Radiated Emissions
Mode 1& Mode 2	Conducted Emissions
Applied for testing-Immunity	
Operating Mode	Test Items
Mode 1& Mode 2	Electrostatic discharge
Mode 1& Mode 2	Radio-frequency electromagnetic field
Mode 1& Mode 2	Fast transients
Mode 1& Mode 2	Surges
Mode 1& Mode 2	Radio-frequency common mode
Mode 1& Mode 2	Power-frequency magnetic field

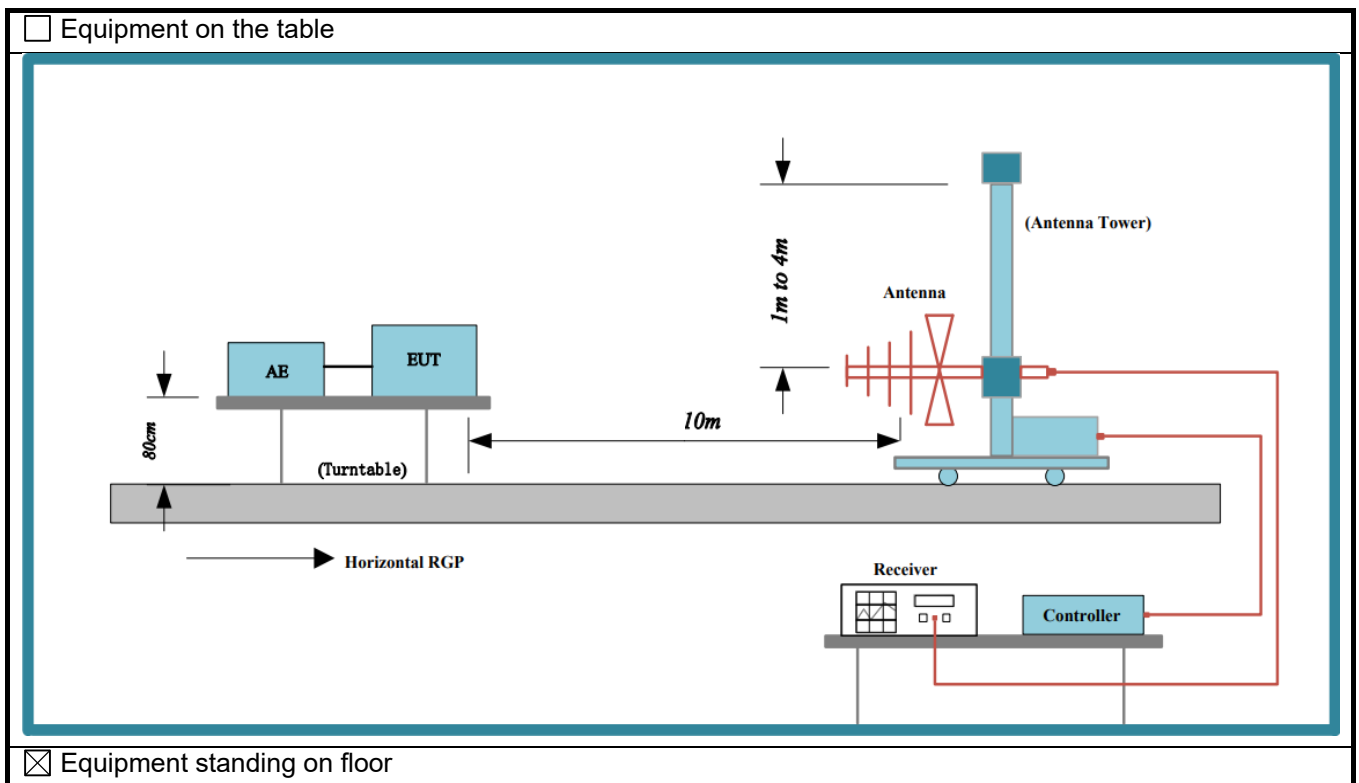
4 EMISSION TEST RESULTS

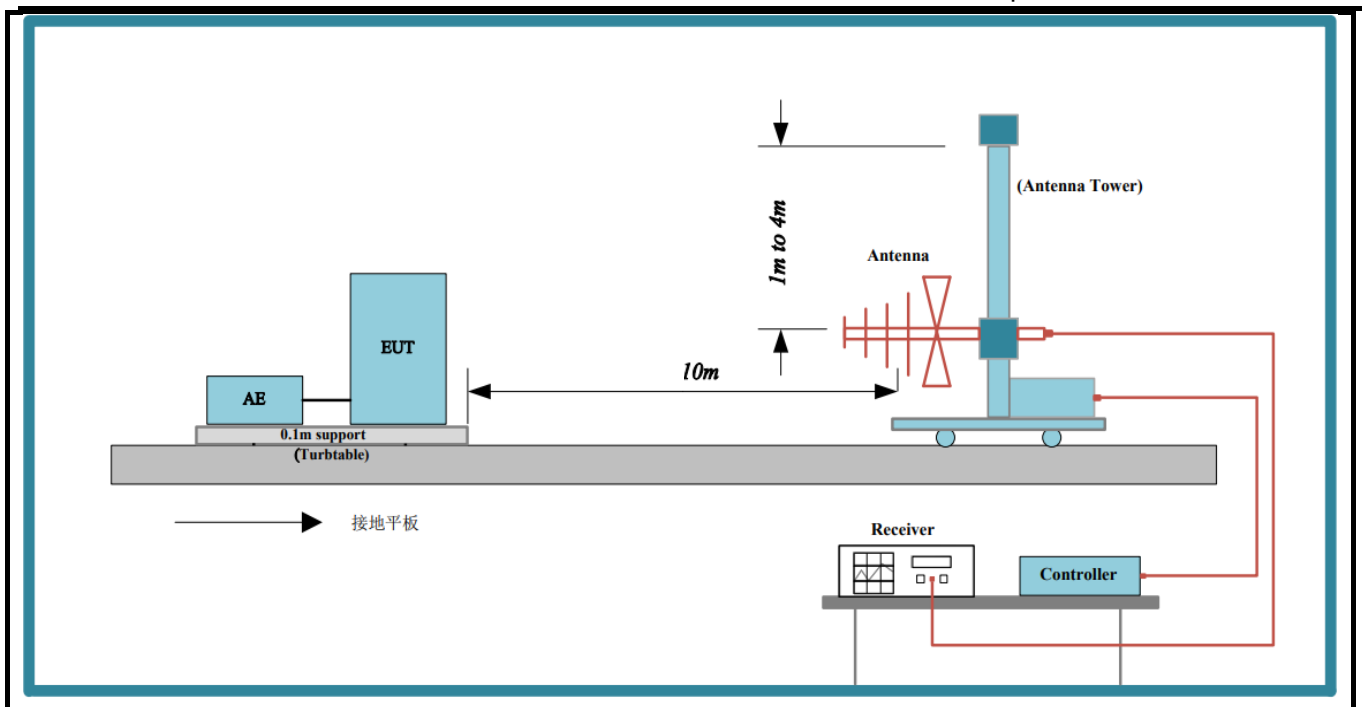
4.1 Radiated Emissions(30MHz-1GHz)

4.1.1 Limit

☒ Emission - Enclosure port		
	☐ At SAC with 3m measurement distance	
	Frequency range (MHz)	Quasi peak limits (dBµV/m)
	30 to 230	50
	230 to 1000	57
	☒ At SAC with 10m measurement distance	
	Frequency range (MHz)	Quasi peak limits (dBµV/m)
	30 to 230	40
	230 to 1000	47

4.1.2 Test Setup





4.1.3 Test Procedures

The quantity to be measured is the maximum electric field strength emitted by the EUT as a function of horizontal and vertical polarization and at heights between 1 m and 4 m, and at a horizontal distance of 10 m or 3m from the EUT, over all angles in the azimuth plane. The frequency range of interest is 30 MHz to 1000 MHz. The measured value is quasi-peak value, and the receiver bandwidth is 120kHz.

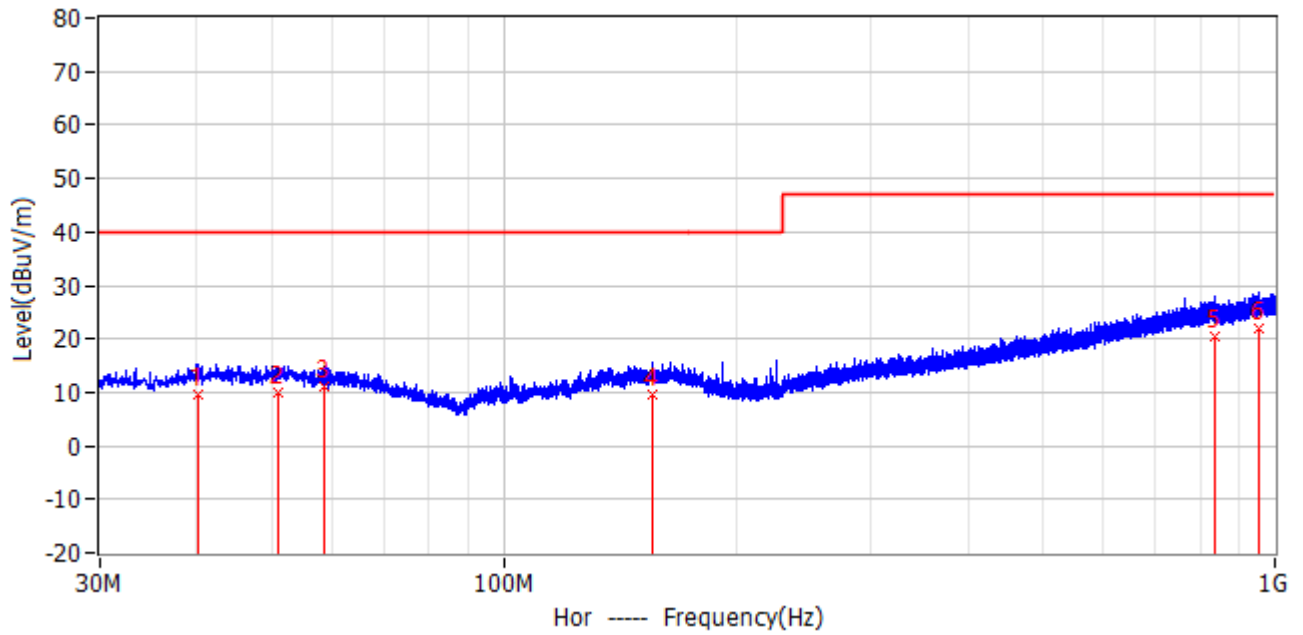
☐ table-top EUT: The EUT should be placed on a non-conductive table 0.8m above the reference grounding plate. Spacing between any two elements on the measurement table is 0.1m. Where possible, cables that connect between modules or units shall hang over the back of the table. If a cable hangs closer than 0,4 m from the horizontal RGP (or floor), the excess shall be folded at the cable centre into a bundle no longer than 0,4 m, such that the bundle is 0,4 m above the horizontal RGP.

☒ floor standing EUT: The EUT shall be insulated (by insulation of maximum thickness of 150 mm) from the horizontal reference ground plane. Excess cable shall be bundled noninductively on, but separated from, the RGP.

4.1.4 Test Results

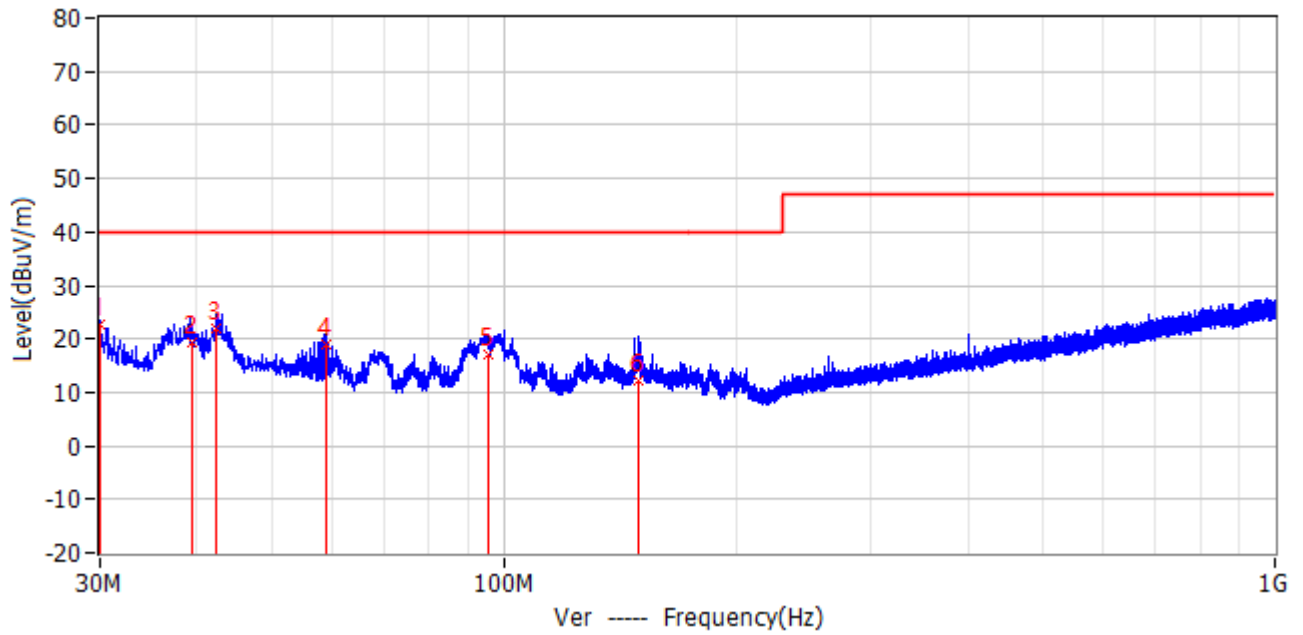
Test site	AC1
Test Date	2026.05.19
Temperature	24°C
Relative Humidity	58%
Pressure	100.9kPa
Mains voltage / frequency	Battery

Mode 1(Hor):



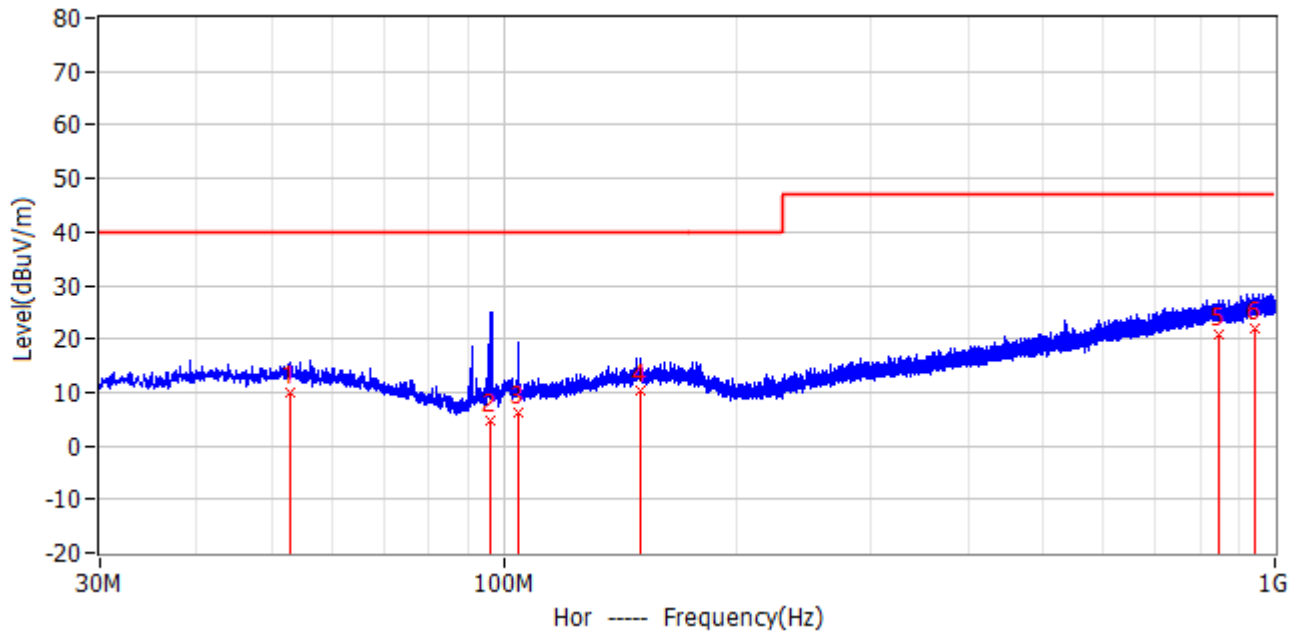
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	40.115MHz	40.0	9.5	-30.5	19.6	-10.1	QP	Hor	100.0	324.0
2	50.951MHz	40.0	10.0	-30.0	19.8	-9.8	QP	Hor	100.0	0.0
3	58.734MHz	40.0	10.9	-29.1	21.4	-10.5	QP	Hor	100.0	0.0
4	156.048MHz	40.0	9.6	-30.4	19.1	-9.5	QP	Hor	200.0	181.0
5	835.508MHz	47.0	20.6	-26.4	15.6	5.0	QP	Hor	100.0	22.0
6	953.399MHz	47.0	21.8	-25.2	15.1	6.7	QP	Hor	108.0	0.0

Mode 1(Ver):



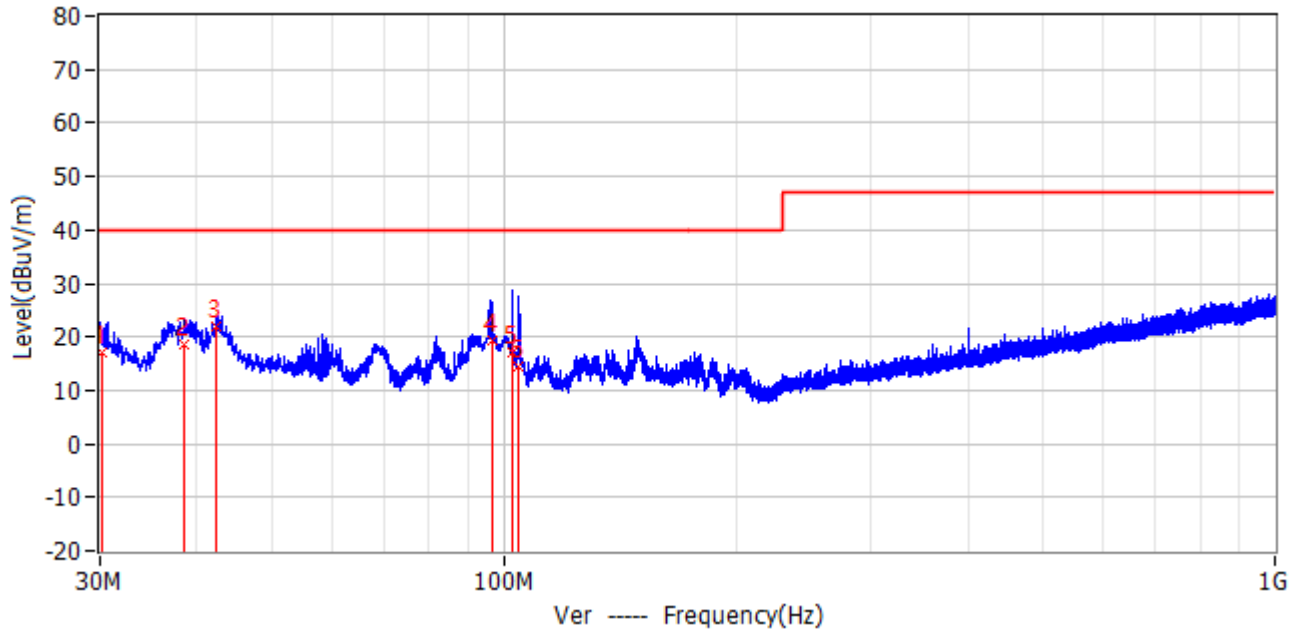
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	30.004MHz	40.0	22.6	-17.4	34.8	-12.2	QP	Ver	100.0	97.0
2	39.403MHz	40.0	19.4	-20.6	30.5	-11.1	QP	Ver	200.0	0.0
3	42.497MHz	40.0	22.1	-17.9	33.0	-10.9	QP	Ver	200.0	325.0
4	58.763MHz	40.0	18.9	-21.1	30.1	-11.2	QP	Ver	100.0	13.0
5	95.710MHz	40.0	17.1	-22.9	32.8	-15.7	QP	Ver	121.0	0.0
6	150.052MHz	40.0	12.2	-27.8	22.7	-10.5	QP	Ver	100.0	21.0

Mode 2(Hor):



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	52.840MHz	40.0	10.0	-30.0	19.8	-9.8	QP	Hor	100.0	108.0
2	96.296MHz	40.0	4.8	-35.2	19.4	-14.6	QP	Hor	100.0	0.0
3	104.845MHz	40.0	6.1	-33.9	19.7	-13.6	QP	Hor	100.0	357.0
4	150.941MHz	40.0	10.5	-29.5	20.1	-9.6	QP	Hor	200.0	50.0
5	844.200MHz	47.0	20.8	-26.2	15.6	5.2	QP	Hor	100.0	245.0
6	942.000MHz	47.0	21.8	-25.2	15.3	6.5	QP	Hor	200.0	0.0

Mode 2(Ver):



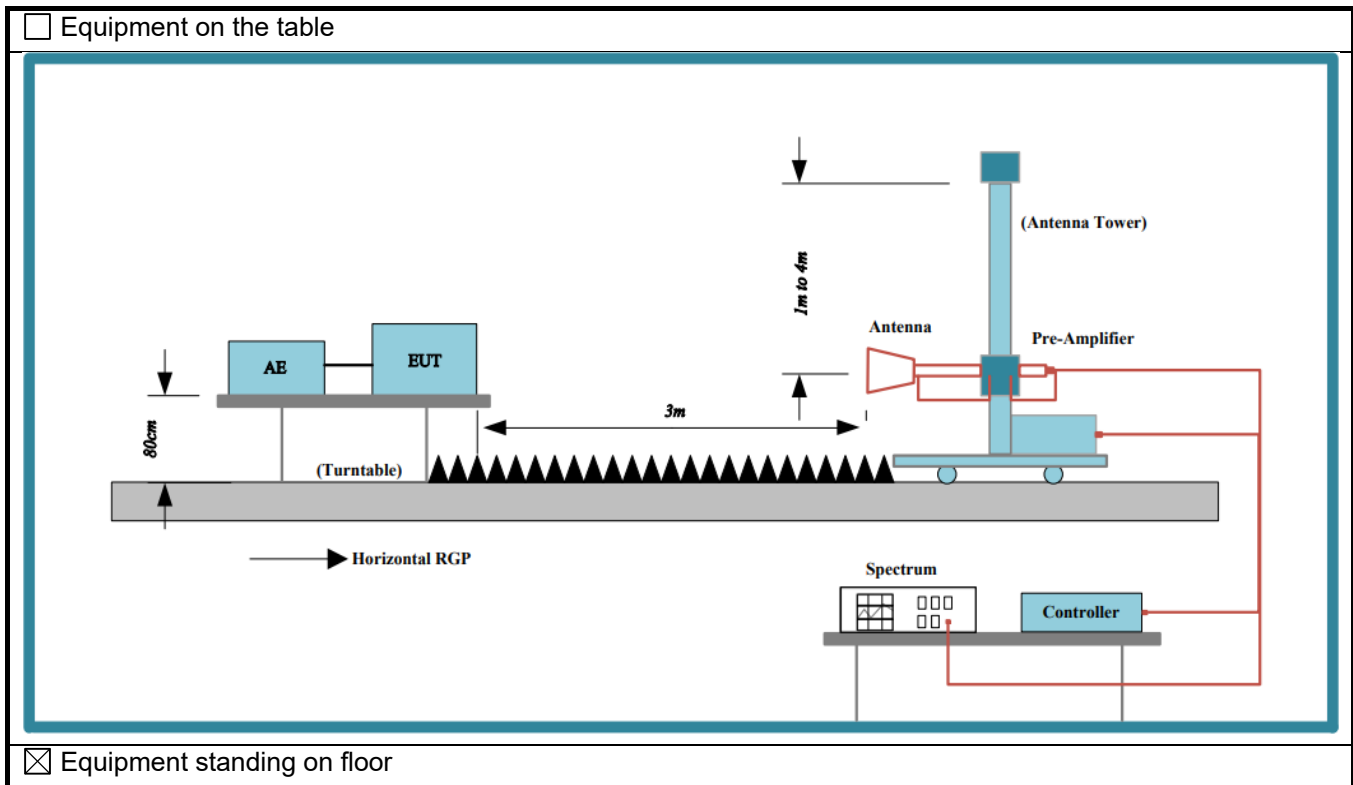
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	30.146MHz	40.0	17.1	-22.9	29.3	-12.2	QP	Ver	100.0	179.0
2	38.636MHz	40.0	18.5	-21.5	29.6	-11.1	QP	Ver	200.0	28.0
3	42.513MHz	40.0	22.0	-18.0	32.9	-10.9	QP	Ver	100.0	346.0
4	96.499MHz	40.0	19.3	-20.7	34.9	-15.6	QP	Ver	100.0	0.0
5	102.804MHz	40.0	17.2	-22.8	32.1	-14.9	QP	Ver	100.0	0.0
6	104.790MHz	40.0	14.3	-25.7	28.8	-14.5	QP	Ver	100.0	357.0

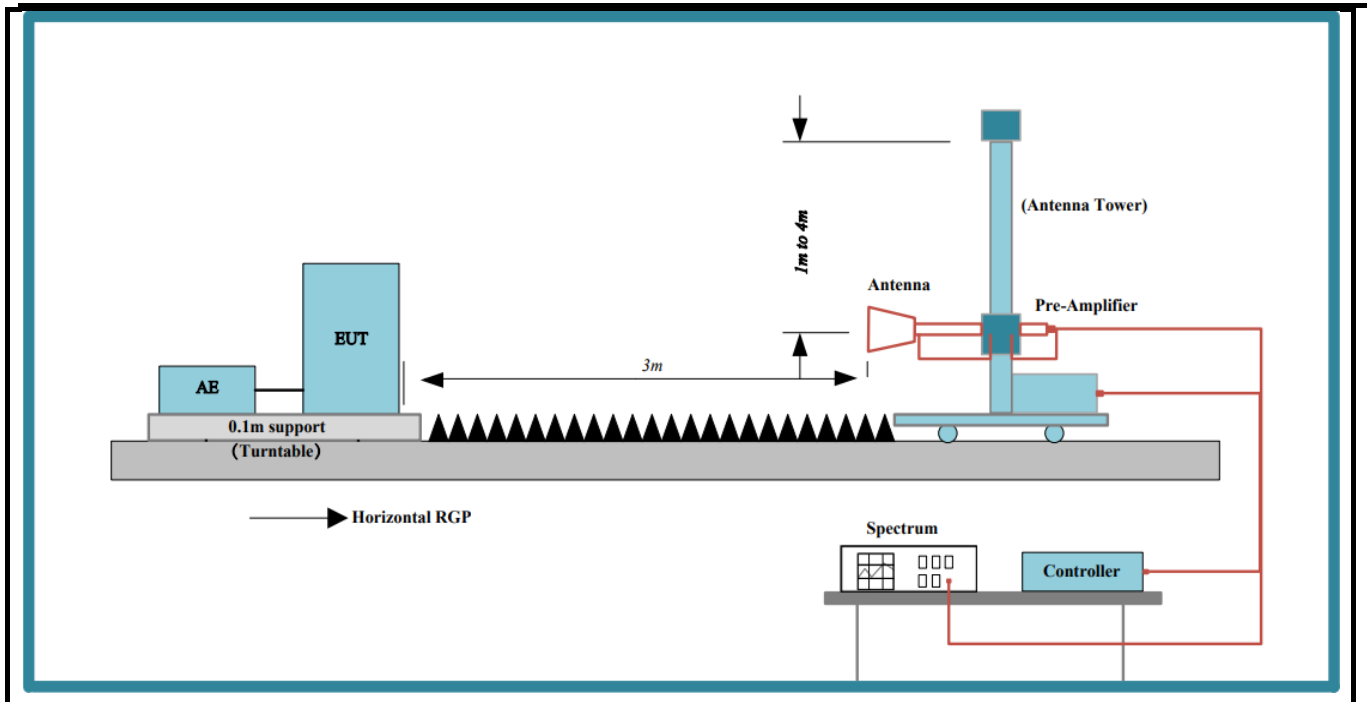
4.2 Radiated Emissions(1GHz-6GHz)

4.2.1 Limit

☒ Emission - Enclosure port			
☐ At SAC with 3m measurement distance			
Frequency range (MHz)	Peak limits (dB μ V/m)	Average (dB μ V/m)	
1000 to 3000	76	56	
3000 to 6000	80	60	

4.2.2 Test Setup





4.2.3 Test Procedures

The quantity to be measured is the maximum electric field strength emitted by the EUT as a function of horizontal and vertical polarization and at heights between 1 m and 4 m, and at a horizontal distance of 3m from the EUT, over all angles in the azimuth plane.

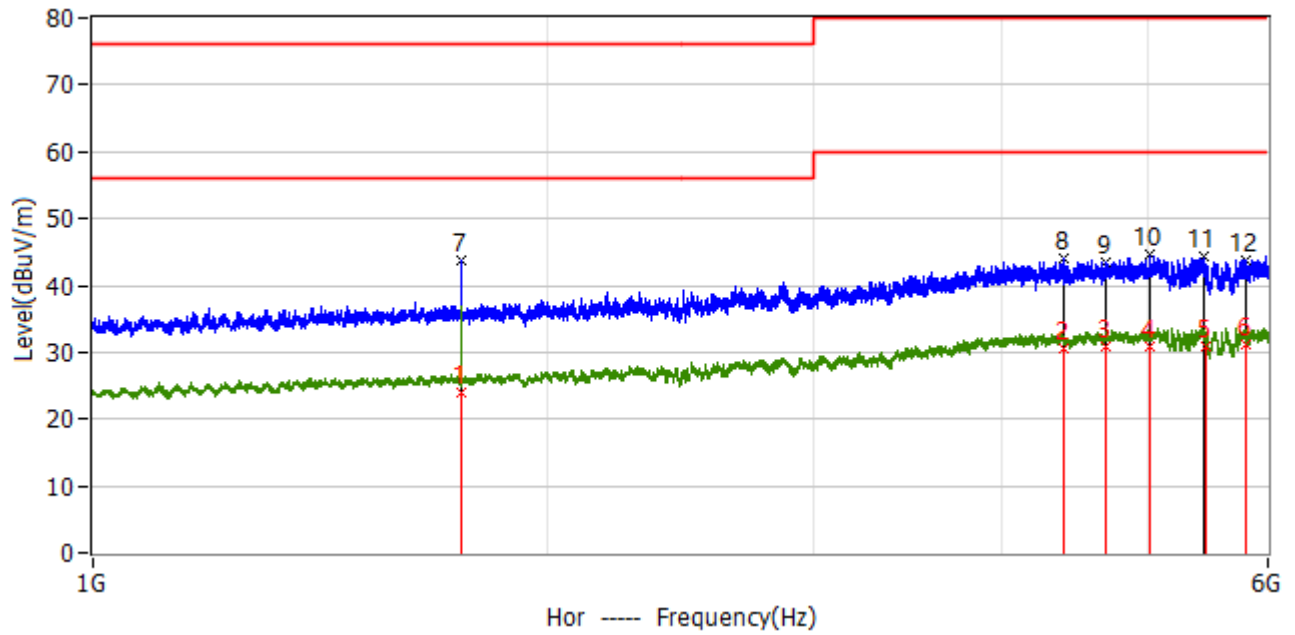
☐ Table-top EUT: The EUT should be placed on a non-conductive table 0.8m above the reference grounding plate. Spacing between any two elements on the measurement table is 0.1m. Where possible, cables that connect between modules or units shall hang over the back of the table. If a cable hangs closer than 0,4 m from the horizontal RGP (or floor), the excess shall be folded at the cable centre into a bundle no longer than 0,4 m, such that the bundle is 0,4 m above the horizontal RGP.

☒ Floor standing EUT: The EUT shall be insulated (by insulation of maximum thickness of 150 mm) from the horizontal reference ground plane. Excess cable shall be bundled noninductively on, but separated from, the RGP.

4.2.4 Test Results

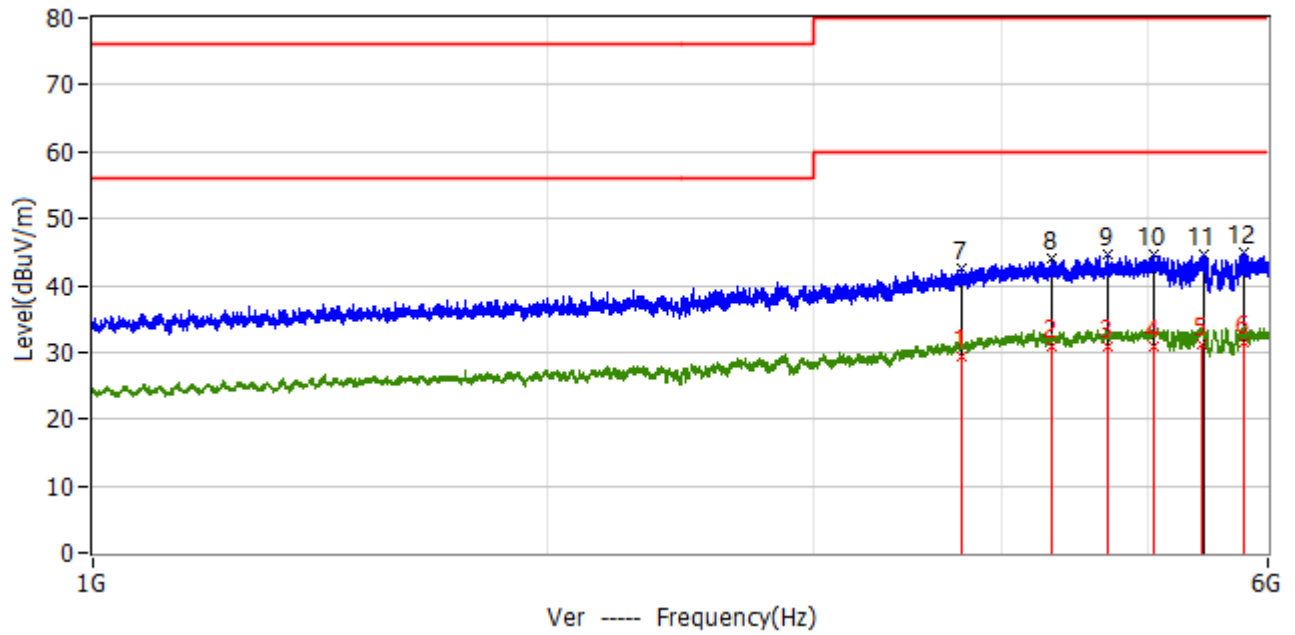
Test site	AC1
Test Date	2026.05.19
Temperature	24°C
Relative Humidity	58%
Pressure	100.9kPa
Mains voltage / frequency	Battery

Mode 1(Hor):



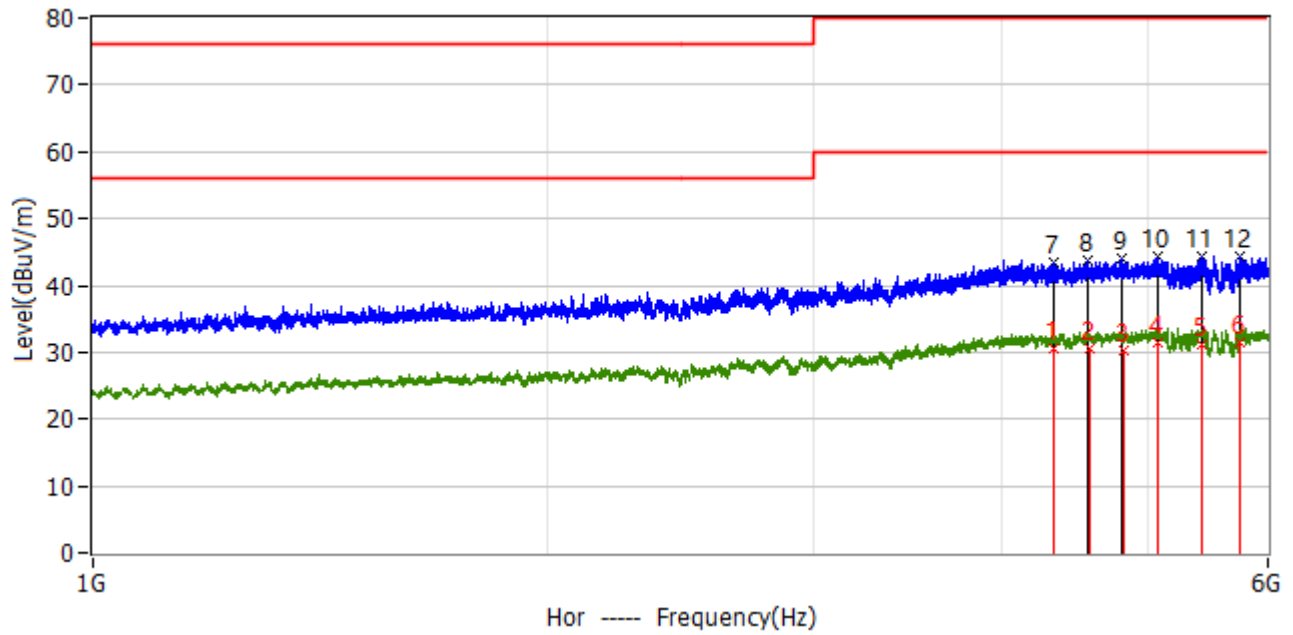
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	1.754GHz	56.0	23.9	-32.1	41.3	-17.4	CAV	Hor	100.0	201.0
2	4.390GHz	60.0	30.5	-29.5	37.5	-7.0	CAV	Hor	100.0	134.0
3	4.690GHz	60.0	30.8	-29.2	37.3	-6.5	CAV	Hor	100.0	8.0
4	5.005GHz	60.0	30.8	-29.2	36.7	-5.9	CAV	Hor	100.0	236.0
5	5.453GHz	60.0	31.0	-29.0	36.2	-5.2	CAV	Hor	100.0	171.0
6	5.797GHz	60.0	31.3	-28.7	35.9	-4.6	CAV	Hor	100.0	194.0
7	1.754GHz	76.0	43.7	-32.3	61.1	-17.4	PK	Hor	100.0	201.0
8	4.394GHz	80.0	43.9	-36.1	50.9	-7.0	PK	Hor	100.0	134.0
9	4.688GHz	80.0	43.5	-36.5	50.0	-6.5	PK	Hor	100.0	8.0
10	5.006GHz	80.0	44.5	-35.5	50.4	-5.9	PK	Hor	100.0	236.0
11	5.446GHz	80.0	44.2	-35.8	49.4	-5.2	PK	Hor	100.0	171.0
12	5.798GHz	80.0	43.8	-36.2	48.4	-4.6	PK	Hor	100.0	194.0

Mode 1(Ver):



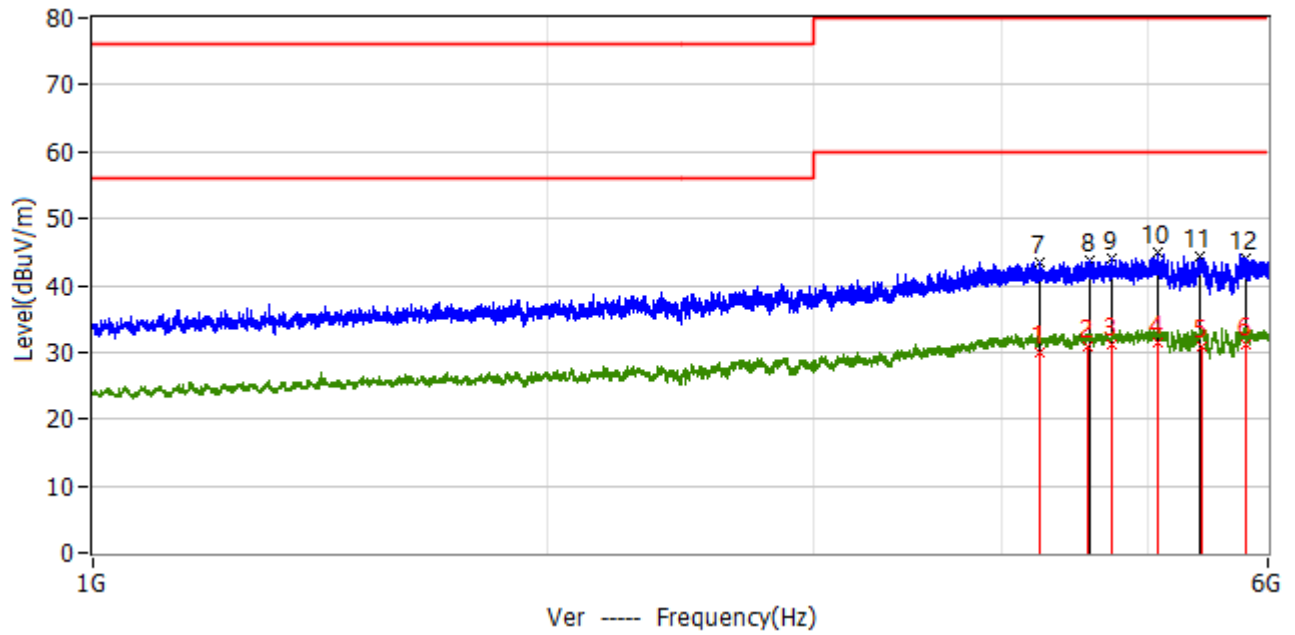
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	3.766GHz	60.0	29.3	-30.7	38.1	-8.8	CAV	Ver	100.0	127.0
2	4.317GHz	60.0	30.8	-29.2	37.9	-7.1	CAV	Ver	100.0	58.0
3	4.698GHz	60.0	30.9	-29.1	37.3	-6.4	CAV	Ver	100.0	38.0
4	5.038GHz	60.0	31.0	-29.0	36.8	-5.8	CAV	Ver	100.0	61.0
5	5.428GHz	60.0	31.1	-28.9	36.3	-5.2	CAV	Ver	100.0	0.0
6	5.778GHz	60.0	31.5	-28.5	36.2	-4.7	CAV	Ver	100.0	14.0
7	3.764GHz	80.0	42.6	-37.4	51.4	-8.8	PK	Ver	100.0	127.0
8	4.315GHz	80.0	43.9	-36.1	51.0	-7.1	PK	Ver	100.0	58.0
9	4.700GHz	80.0	44.6	-35.4	51.0	-6.4	PK	Ver	100.0	38.0
10	5.040GHz	80.0	44.7	-35.3	50.5	-5.8	PK	Ver	100.0	61.0
11	5.437GHz	80.0	44.6	-35.4	49.8	-5.2	PK	Ver	100.0	0.0
12	5.777GHz	80.0	44.8	-35.2	49.5	-4.7	PK	Ver	100.0	14.0

Mode 2(Hor):



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	4.327GHz	60.0	30.7	-29.3	37.8	-7.1	CAV	Hor	100.0	273.0
2	4.571GHz	60.0	30.7	-29.3	37.4	-6.7	CAV	Hor	100.0	268.0
3	4.813GHz	60.0	30.4	-29.6	36.6	-6.2	CAV	Hor	100.0	343.0
4	5.078GHz	60.0	31.4	-28.6	37.2	-5.8	CAV	Hor	100.0	137.0
5	5.426GHz	60.0	31.2	-28.8	36.4	-5.2	CAV	Hor	100.0	85.0
6	5.742GHz	60.0	31.4	-28.6	36.1	-4.7	CAV	Hor	100.0	120.0
7	4.324GHz	80.0	43.4	-36.6	50.5	-7.1	PK	Hor	100.0	273.0
8	4.565GHz	80.0	43.7	-36.3	50.4	-6.7	PK	Hor	100.0	268.0
9	4.806GHz	80.0	44.0	-36.0	50.2	-6.2	PK	Hor	100.0	343.0
10	5.077GHz	80.0	44.2	-35.8	50.0	-5.8	PK	Hor	100.0	137.0
11	5.418GHz	80.0	44.3	-35.7	49.5	-5.2	PK	Hor	100.0	85.0
12	5.743GHz	80.0	44.2	-35.8	48.9	-4.7	PK	Hor	100.0	120.0

Mode 2(Ver):



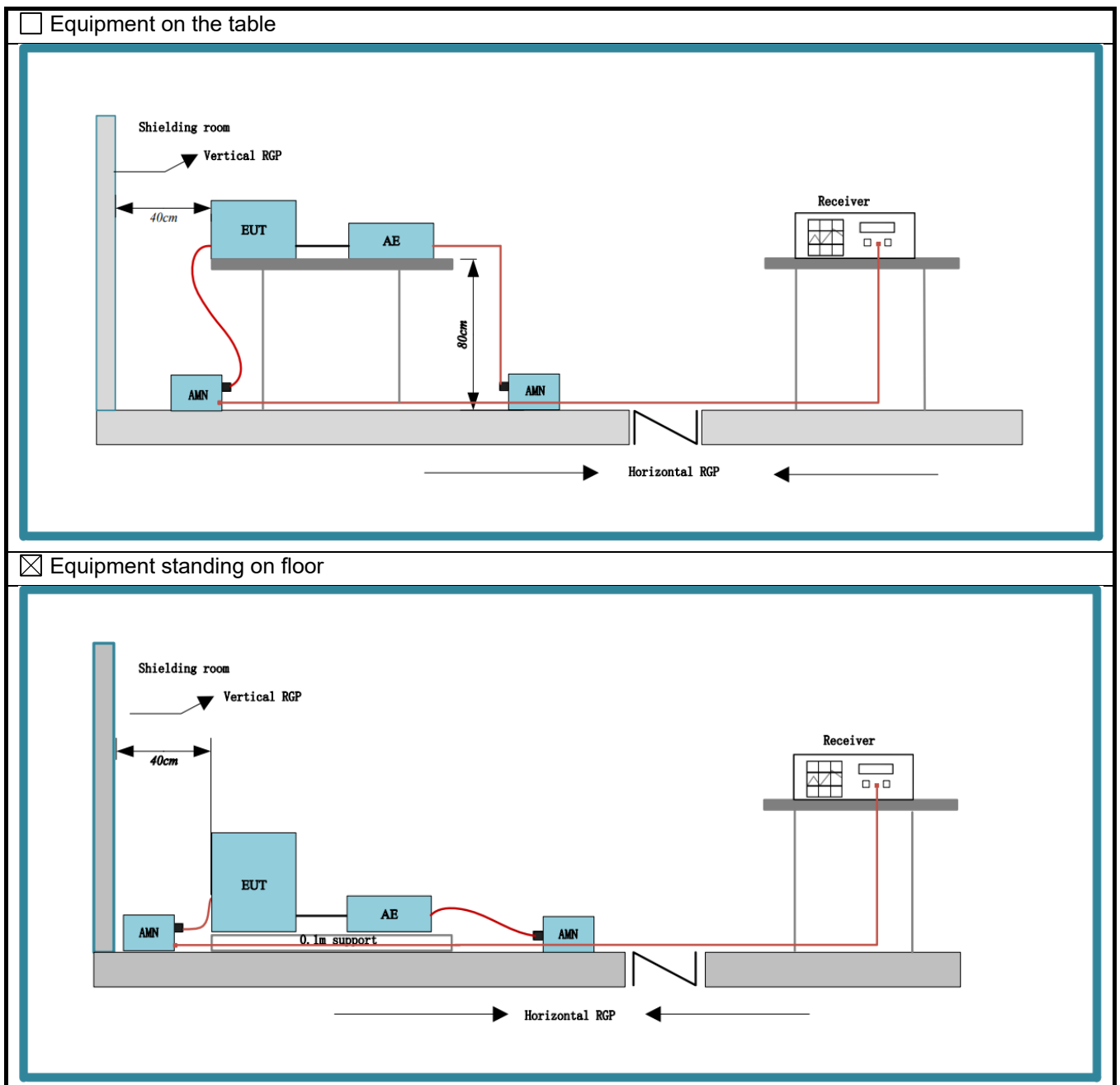
No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	4.234GHz	60.0	30.1	-29.9	37.4	-7.3	CAV	Ver	100.0	200.0
2	4.565GHz	60.0	30.8	-29.2	37.5	-6.7	CAV	Ver	100.0	0.0
3	4.733GHz	60.0	31.1	-28.9	37.5	-6.4	CAV	Ver	100.0	267.0
4	5.075GHz	60.0	31.6	-28.4	37.4	-5.8	CAV	Ver	100.0	128.0
5	5.421GHz	60.0	31.0	-29.0	36.2	-5.2	CAV	Ver	100.0	44.0
6	5.797GHz	60.0	31.3	-28.7	35.9	-4.6	CAV	Ver	100.0	39.0
7	4.234GHz	80.0	43.3	-36.7	50.6	-7.3	PK	Ver	100.0	200.0
8	4.567GHz	80.0	43.7	-36.3	50.4	-6.7	PK	Ver	100.0	0.0
9	4.729GHz	80.0	44.1	-35.9	50.5	-6.4	PK	Ver	100.0	267.0
10	5.071GHz	80.0	44.8	-35.2	50.6	-5.8	PK	Ver	100.0	128.0
11	5.412GHz	80.0	44.2	-35.8	49.5	-5.3	PK	Ver	100.0	44.0
12	5.794GHz	80.0	44.0	-36.0	48.7	-4.7	PK	Ver	100.0	39.0

4.3 Conducted Emissions

4.3.1 Limit

☒ DC power port		
Frequency range (MHz)	Frequency range (MHz)	Frequency range (MHz)
0.15 to 0.50	89	76
0.50 to 30	83	70

4.3.2 Test Setup



4.3.3 Test Procedures

For measurement of the disturbance voltage, the EUT is connected to the power supply mains and any other extended network via one or more AN(s) (in general, the V-type network is used as an AMN for the power port). The distance between EUT and AMN is 0,8m. If a fixed lead is attached to the EUT it shall be 1 m long, or if in excess of 1 m, part of the lead is folded back and forth in the shape of a meander between 30 cm and 40 cm in length, and arranged in the form of a non-inductive serpentine in such a way that the total length of the lead does not exceed 1 m.

The frequency range of interest is 150 kHz to 30 MHz. The measured value is quasi-peak value and average, and the receiver bandwidth is 9kHz.

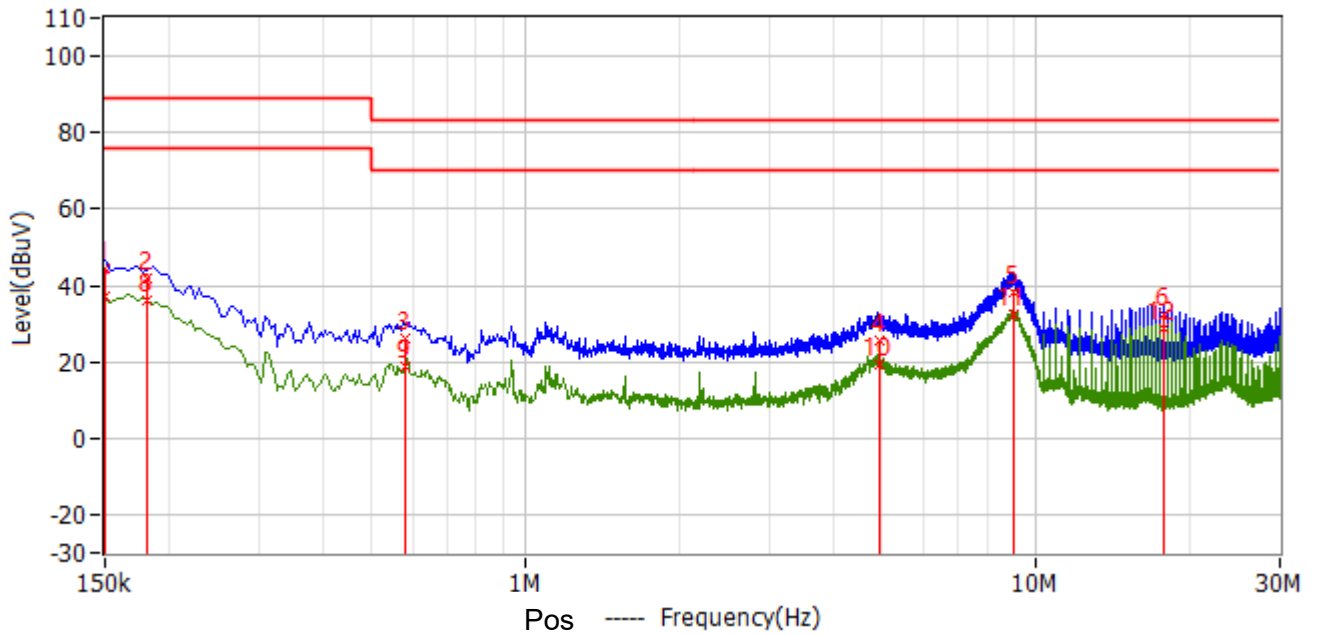
☐ Table-top EUT: The EUT should be placed on a non-conductive table 0.8m above the reference grounding plate. EUT on the back of the equipment should be vertical reference ground plate 0.4 m distance.

☒ Floor standing EUT: The EUT and cables shall be insulated (up to 15 cm) from the ground plane.

4.3.4 Test Results

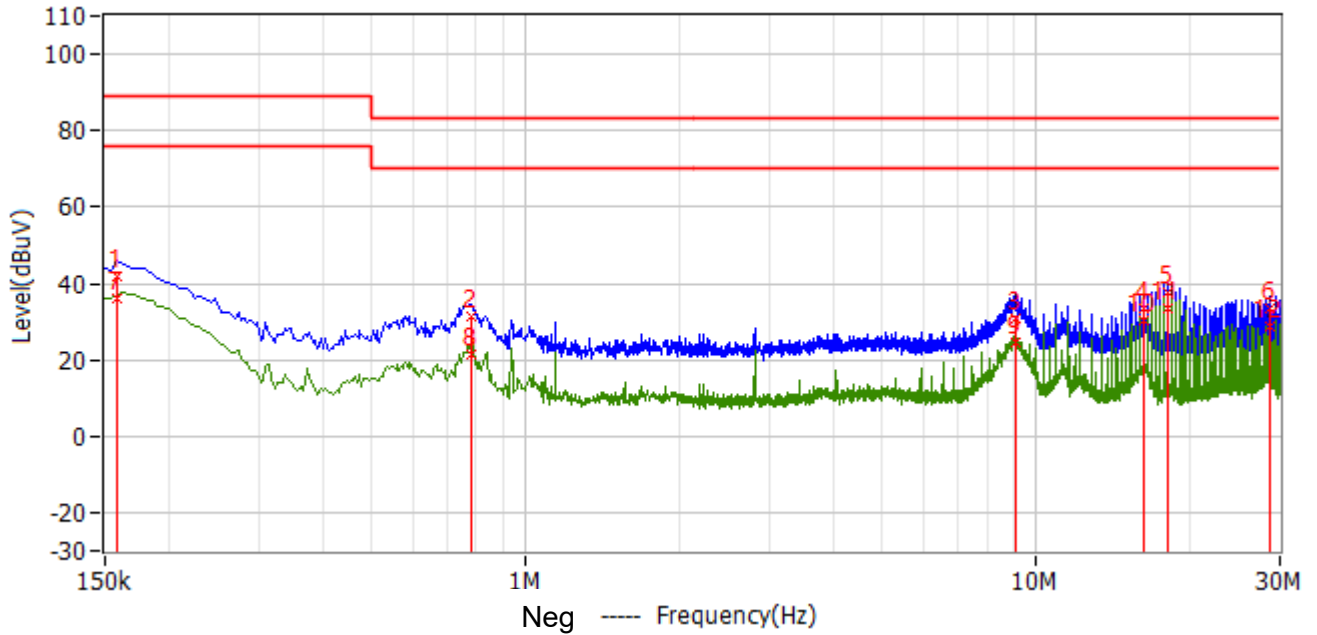
Test site	SR1
Test Date	2026.05.19
Temperature	20°C
Relative Humidity	52%
Pressure	100.9kPa
Mains voltage / frequency	Battery

Mode 1(Pos):



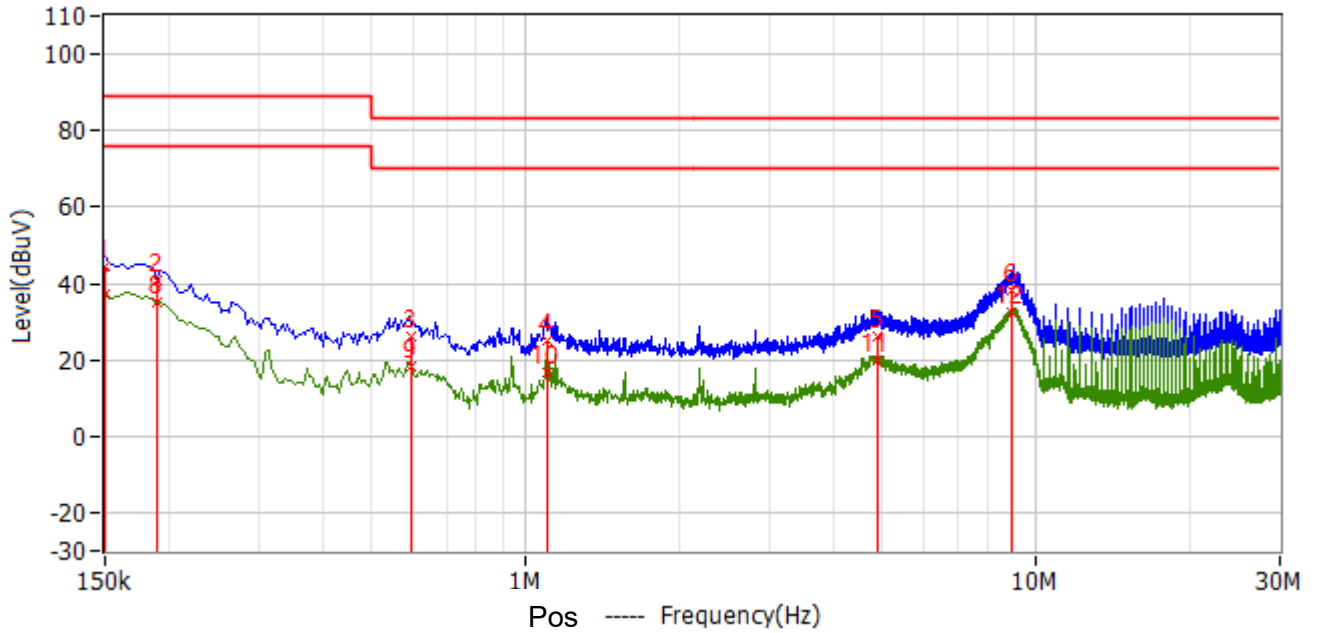
No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1	150.000kHz	89.0	44.3	-44.7	24.3	20.0	QP	Pos
2	182.000kHz	89.0	41.7	-47.3	21.7	20.0	QP	Pos
3	582.000kHz	83.0	25.9	-57.1	5.9	20.0	QP	Pos
4	4.930MHz	83.0	25.7	-57.3	5.8	19.9	QP	Pos
5	9.050MHz	83.0	38.4	-44.6	18.5	19.9	QP	Pos
6	17.810MHz	83.0	32.2	-50.8	12.5	19.7	QP	Pos
7	150.000kHz	76.0	36.9	-39.1	16.9	20.0	CAV	Pos
8	182.000kHz	76.0	36.2	-39.8	16.2	20.0	CAV	Pos
9	582.000kHz	70.0	18.6	-51.4	-1.4	20.0	CAV	Pos
10	4.930MHz	70.0	19.5	-50.5	-0.4	19.9	CAV	Pos
11	9.050MHz	70.0	32.2	-37.8	12.3	19.9	CAV	Pos
12	17.810MHz	70.0	28.9	-41.1	9.2	19.7	CAV	Pos

Mode 1(Neg):



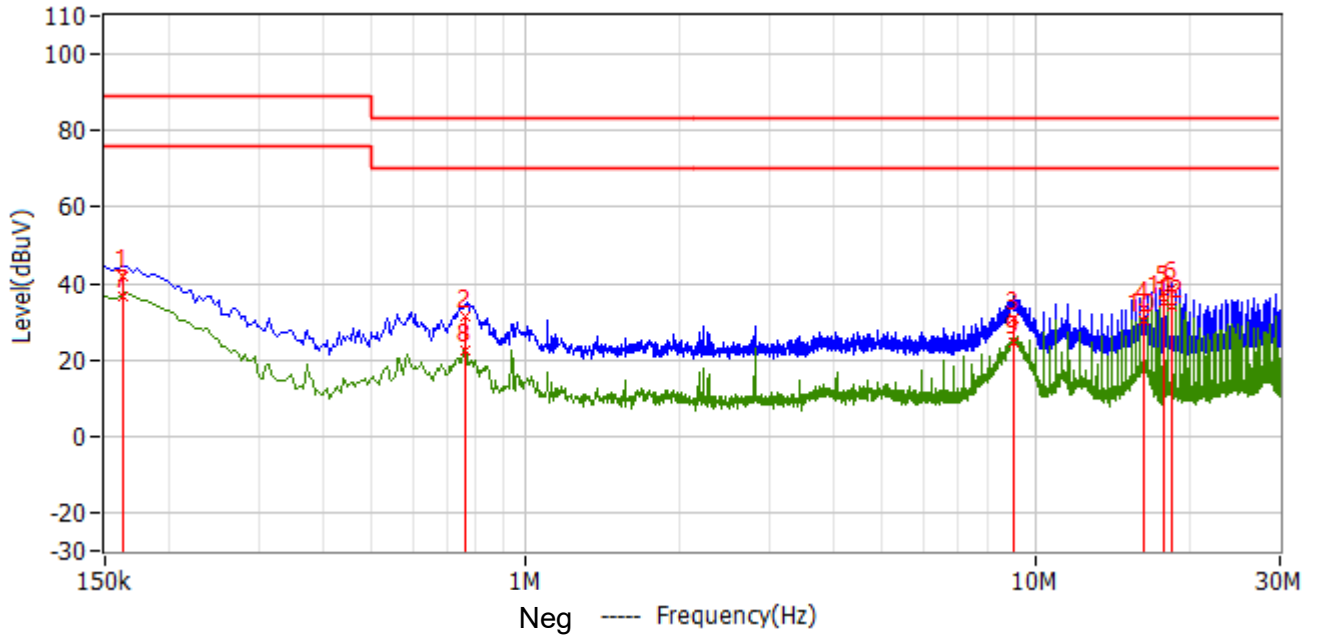
No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1	158.000kHz	89.0	41.7	-47.3	21.7	20.0	QP	Neg
2	782.000kHz	83.0	31.3	-51.7	11.3	20.0	QP	Neg
3	9.154MHz	83.0	30.7	-52.3	10.8	19.9	QP	Neg
4	16.250MHz	83.0	33.3	-49.7	13.4	19.9	QP	Neg
5	18.122MHz	83.0	37.7	-45.3	17.9	19.8	QP	Neg
6	28.742MHz	83.0	33.4	-49.6	13.8	19.6	QP	Neg
7	158.000kHz	76.0	36.3	-39.7	16.3	20.0	CAV	Neg
8	782.000kHz	70.0	21.5	-48.5	1.5	20.0	CAV	Neg
9	9.154MHz	70.0	24.5	-45.5	4.6	19.9	CAV	Neg
10	16.250MHz	70.0	30.2	-39.8	10.3	19.9	CAV	Neg
11	18.122MHz	70.0	33.3	-36.7	13.5	19.8	CAV	Neg
12	28.742MHz	70.0	28.7	-41.3	9.1	19.6	CAV	Neg

Mode 2(Pos):



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1	150.000kHz	89.0	44.3	-44.7	24.3	20.0	QP	Pos
2	190.000kHz	89.0	40.7	-48.3	20.7	20.0	QP	Pos
3	598.000kHz	83.0	25.9	-57.1	5.9	20.0	QP	Pos
4	1.098MHz	83.0	25.3	-57.7	5.3	20.0	QP	Pos
5	4.874MHz	83.0	26.1	-56.9	6.2	19.9	QP	Pos
6	8.982MHz	83.0	38.3	-44.7	18.4	19.9	QP	Pos
7	150.000kHz	76.0	37.1	-38.9	17.1	20.0	CAV	Pos
8	190.000kHz	76.0	34.9	-41.1	14.9	20.0	CAV	Pos
9	598.000kHz	70.0	18.5	-51.5	-1.5	20.0	CAV	Pos
10	1.098MHz	70.0	16.7	-53.3	-3.3	20.0	CAV	Pos
11	4.874MHz	70.0	19.7	-50.3	-0.2	19.9	CAV	Pos
12	8.982MHz	70.0	32.3	-37.7	12.4	19.9	CAV	Pos

Mode 2(Neg):



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1	162.000kHz	89.0	41.6	-47.4	21.6	20.0	QP	Neg
2	762.000kHz	83.0	31.4	-51.6	11.4	20.0	QP	Neg
3	9.030MHz	83.0	30.9	-52.1	11.0	19.9	QP	Neg
4	16.258MHz	83.0	33.6	-49.4	13.7	19.9	QP	Neg
5	17.826MHz	83.0	37.6	-45.4	17.8	19.8	QP	Neg
6	18.450MHz	83.0	38.5	-44.5	18.7	19.8	QP	Neg
7	162.000kHz	76.0	36.8	-39.2	16.8	20.0	CAV	Neg
8	762.000kHz	70.0	22.2	-47.8	2.2	20.0	CAV	Neg
9	9.030MHz	70.0	24.7	-45.3	4.8	19.9	CAV	Neg
10	16.258MHz	70.0	30.2	-39.8	10.3	19.9	CAV	Neg
11	17.826MHz	70.0	34.9	-35.1	15.1	19.8	CAV	Neg
12	18.450MHz	70.0	34.1	-35.9	14.3	19.8	CAV	Neg

5 IMMUNITY TEST RESULTS

5.1 General Information

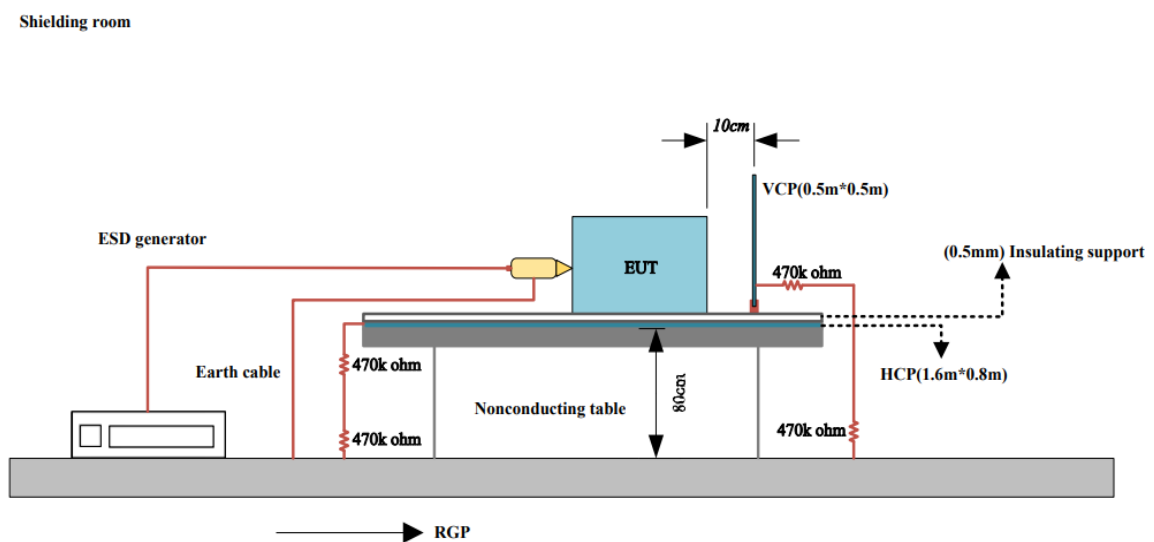
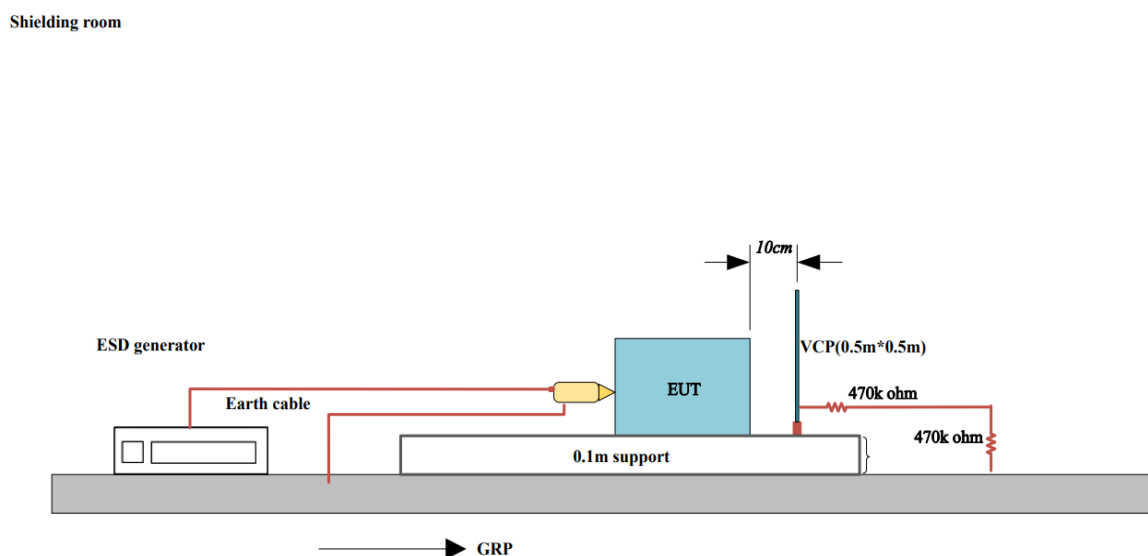
Performance criteria as defined by the standard	
Criterion	Description
A	The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.
B	The EUT shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.
C	Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.
Other:	/

5.2 Electrostatic discharge

5.2.1 Limit

Basic Standard	IEC 61000-4-2
Contact discharge	± 4 kV
Air discharge	± 8 kV
Performance criteria	B

5.2.2 Test Setup

☐ Equipment on the table☒ Equipment standing on floor

5.2.3 Test Procedures

Contact discharge only applies to the conductive surface of the equipment under test. Air discharge only applies to non-conducting surfaces of the equipment under test.

The test shall be performed with single discharges. On each pre-selected point at least 10 single discharges (in the most sensitive polarity) shall be applied. For the time interval between successive single discharges an initial value of 1 s is recommended.

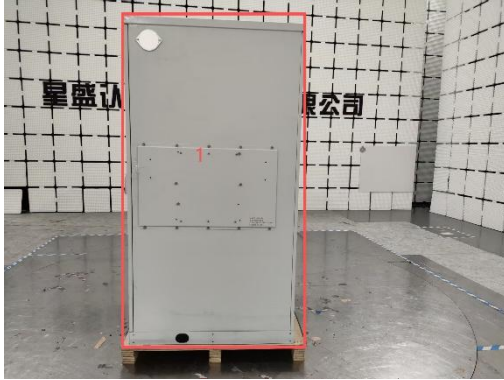
Vertical coupling plane(VCP): At least 10 single discharges (in the most sensitive polarity) shall be applied to the centre of one vertical edge of the coupling plane. The coupling plane, of dimensions 0,5 m × 0,5 m, is placed parallel to, and positioned at a distance of 0,1 m from, the EUT. Discharges shall be applied to the coupling plane, with sufficient different positions such that the four faces of the EUT are completely illuminated. One VCP position is considered to illuminate 0,5 m × 0,5 m area of the EUT surface.

Horizontal coupling plane(HCP): At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the centre point of each unit (if applicable) of the EUT and 0,1 m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge. Discharges shall be applied to the coupling plane, with sufficient different positions such that the four faces of the EUT are completely illuminated.

5.2.4 Test Results

Test site	AC1								
Test Date	2026.05.20								
Environment Condition	Temperature: 23°C; Relative Humidity: 54%; Pressure: 100.6kPa.								
Mains voltage / frequency	Battery								
Test Mode	Mode 1&Mode 2								
No.	Location of discharge	Type	Polarity	Test level [kV]	Number of discharges	Discharge interval	Observation	outcome criteria	Test results
1	VCP - Four Sides	Con	+	4	10	1 s	Note1	A	Pass
2	VCP - Four Sides	Con	-	4	10	1 s	Note1	A	Pass
3	1,2,3,4	Con	+	4	10	1 s	Note1	A	Pass
4	1,2,3,4	Con	-	4	10	1 s	Note1	A	Pass
5	5,6,7,8,9	Air	+	2/4/8	10	1 s	Note1	A	Pass
6	5,6,7,8,9	Air	-	2/4/8	10	1 s	Note1	A	Pass
HCP = Horizontal coupling plate; VCP = Vertical coupling plate N= Negative; P= Positive Con= Conducted discharge; Air= Air discharge									
Note1: During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance or data was observed.									

Electrostatic Discharge Test Points

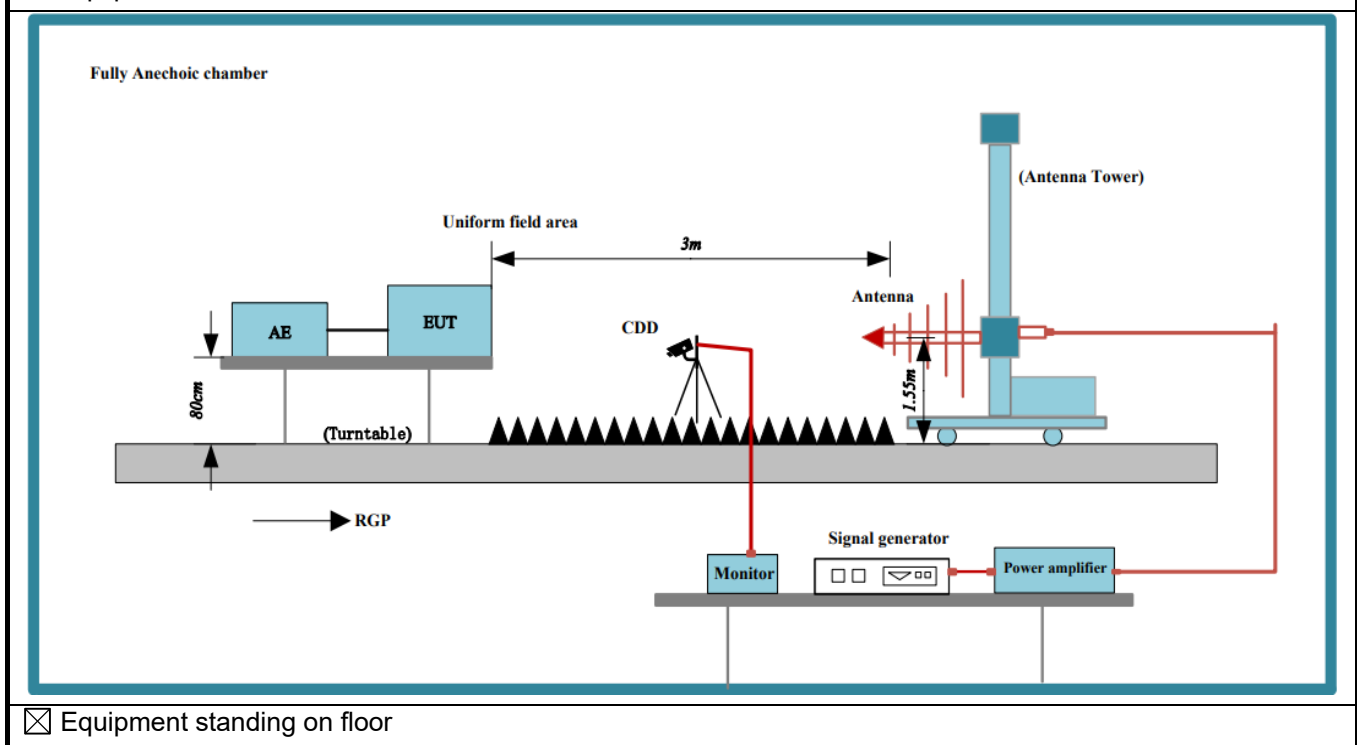


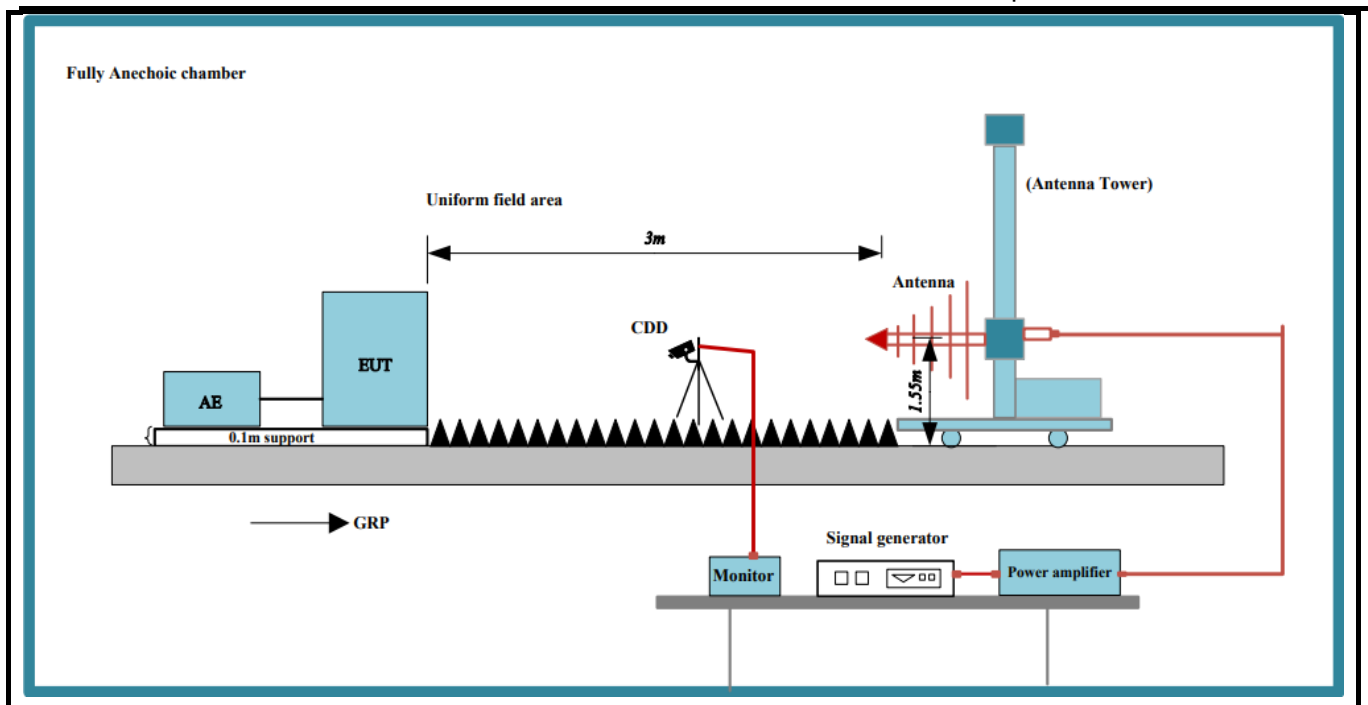
5.3 Radio-frequency electromagnetic field

5.3.1 Limit

Basic Standard	IEC 61000-4-3			
Frequency Field strength (MHz)	Field Strength (V/m)	Modulation	Step Size	Criterion
80 to 1000	10	1 kHz (80% AM)	1%	A
1400 to 6000	3	1 kHz (80% AM)	1%	A

5.3.2 Test Setup

☐ Equipment on the table

☒ Equipment standing on floor



5.3.3 Test Procedures

If the product specification requires a wiring length of less than or equal to 1 m, then the specified length shall be used. If the length specified is greater than 1 m, or is not specified, then the length of cable used shall be chosen in accordance with typical installation practices. Unless otherwise specified above, a minimum of 1 m of cable shall be exposed to the electromagnetic field in one orientation, either vertical or horizontal.

5.3.4 Test Results

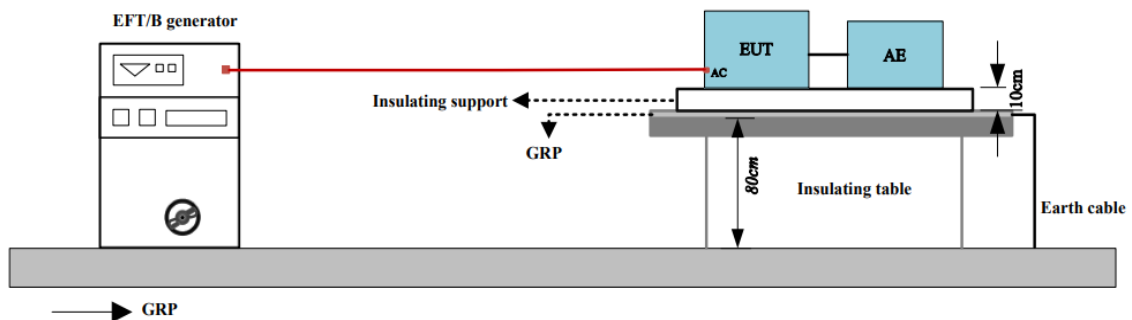
Test site		AC1					
Test Date		2026.05.20					
Environment Condition		Temperature: 28°C; Relative Humidity: 57%; Pressure: 100.6kPa.					
Mains voltage / frequency		Battery					
Test Mode		Mode 1&Mode 2					
Frequency range / discrete frequencies (MHz)	Polarity	Position	Field Strength (V/m)	Dwell Time (s)	Observation	outcome criteria	Test results
80 to 1000	V&H	Front/Rear/Left /Right	10	3	Note1	A	Pass
1400 to 6000	V&H	Front/Rear/Left /Right	3	3	Note1	A	Pass
Note1: During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance or data was observed.							

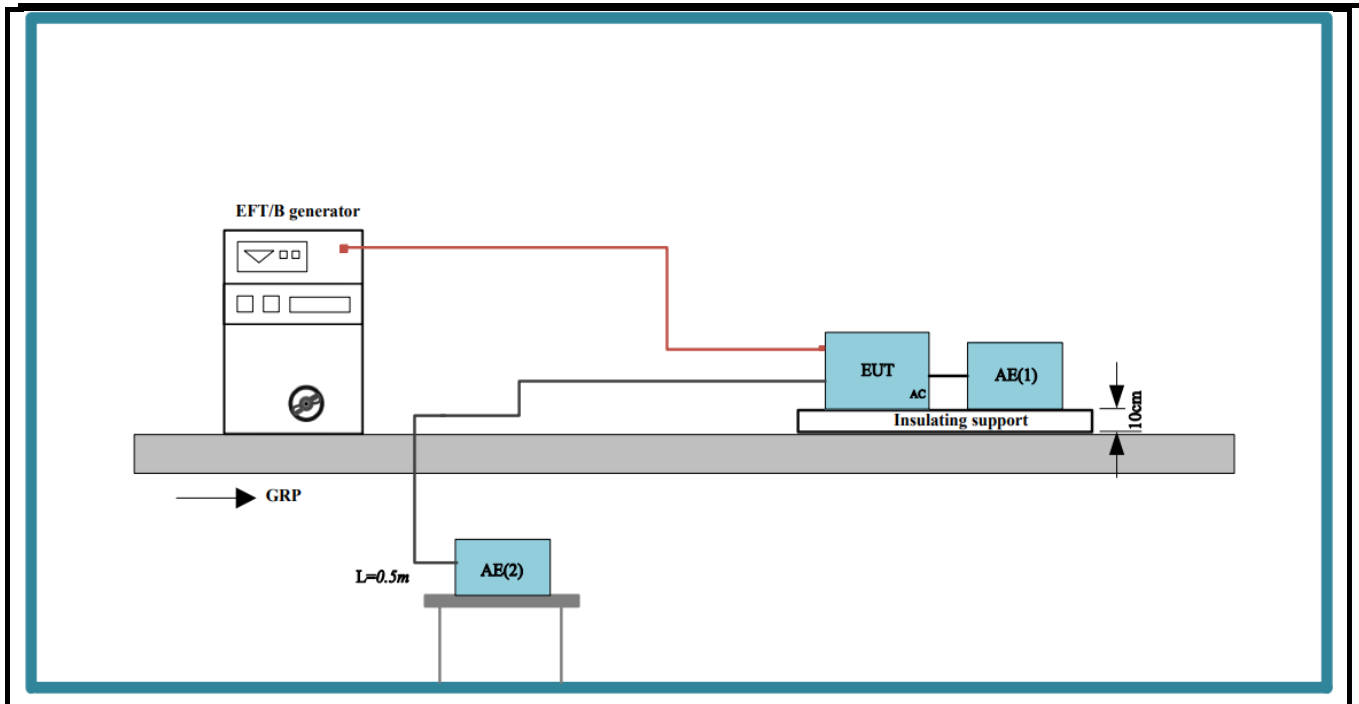
5.4 Fast transients

5.4.1 Limit

Basic Standard	IEC 61000-4-4		
Application Points	Test Level (kV)	Repetition Frequency (kHz)	Performance Criteria
Input and output DC power ports	± 1	5 or 100	B

5.4.2 Test Setup

☐ Equipment on the table

☒ Equipment standing on floor



5.4.3 Test Procedures

Use a coupling/decoupling network when testing AC and DC power ports. Signal and control lines are tested with coupling clamps. The EUT is placed on an insulated supporting that is 0.1 meter height. For table-top equipment, the distance between any coupling device and the test device shall be $0.5^{+0.1}$ m. For floor-standing equipment, the distance between any coupling device and the test device shall be (1.0 ± 0.1) m. The minimum size of the ground reference plane is $0,8 \text{ m} \times 1 \text{ m}$. All cables to the EUT shall be placed on the insulation support 0,1 m above the ground reference plane.

5.4.4 Test Results

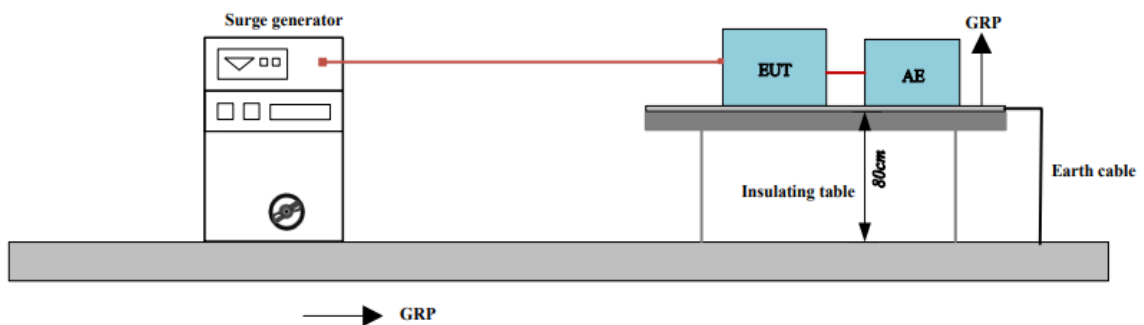
Test site	AC1						
Test Date	2026.05.20						
Environment Condition	Temperature: 21°C; Relative Humidity: 52%; Pressure: 100.6kPa.						
Mains voltage / frequency	Battery						
Test Mode	Mode 1&Mode 2						
Tr/Th: 5/50ns, Repetition Frequency: 100kHz							
Port	Test Level (kV)	Polarity	Test Time	Injection	Observation	outcome criteria	Test results
DC power ports	1	+/-	60	Direct	Note1	A	Pass
Note1: During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance or data was observed.							

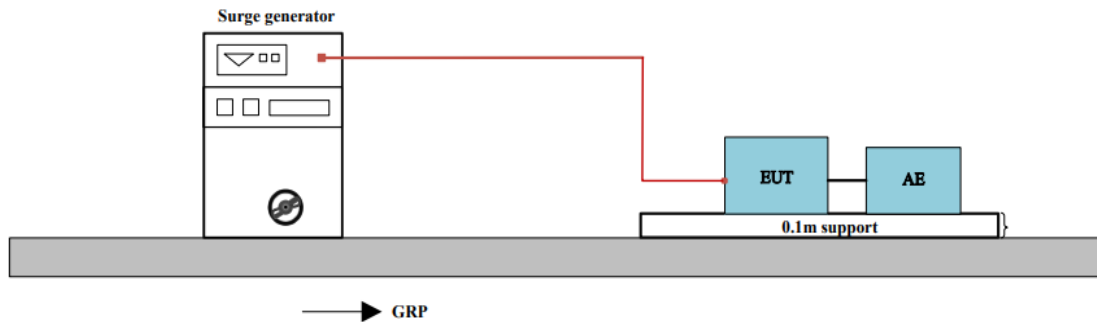
5.5 Surges

5.5.1 Limit

Basic Standard	IEC 61000-4-5		
Application Points	Test Level (kV)	Required Surge Waveform	Performance Criteria
Input and output DC power ports	Line-to-earth : ± 1 Line to Line : ± 0.5	1,2/50 (8/20) Tr /Td μ s	B

5.5.2 Test Setup

☐ Equipment on the table

☒ Equipment standing on floor



5.5.3 Test Procedures

The length of power cord between the coupling device and the EUT shall be 2m or less. The surge noise shall be applied synchronized to the voltage phase at 0°, 90°, 180°, 270° and Each of Line-Earth and Line-Line is impressed with a sequence of five surge voltages with interval of 1 min.

5.5.4 Test Results

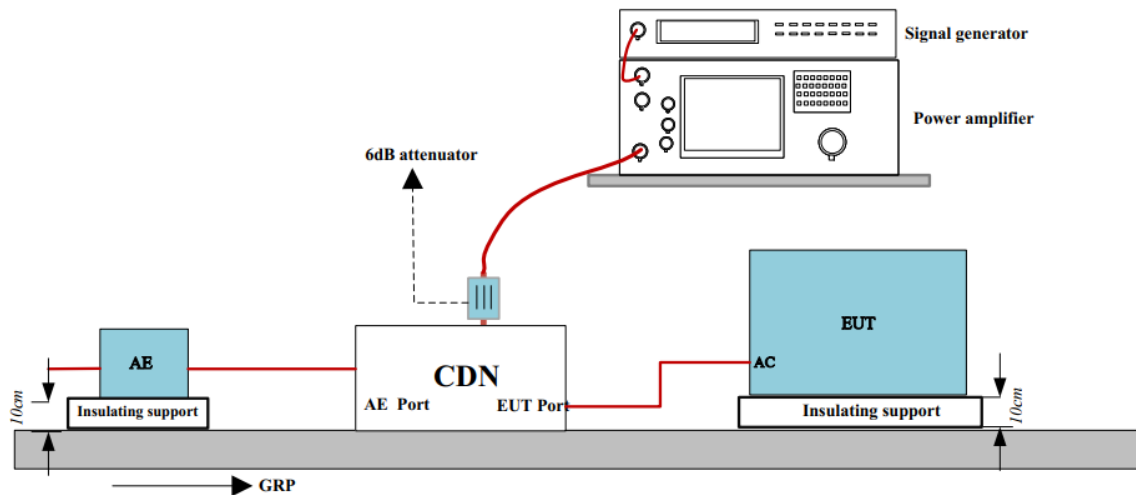
Test site		AC1					
Test Date		2026.05.20					
Environment Condition		Temperature: 21°C; Relative Humidity: 52%; Pressure: 100.6kPa.					
Mains voltage / frequency		Battery					
Test Mode		Mode 1&Mode 2					
Test Interval: 60s [Tr/Th: 1.2/50us (8/20us)]							
Port	Coupling	Level (kV)	Polarity	Phase angles (°)	Observation	outcome criteria	Test results
DC power ports	P-N	0.5	+/-	/	Note1	A	Pass
DC power ports	P-PE	1	+/-	/	Note1	A	Pass
DC power ports	N-PE	1	+/-	/	Note1	A	Pass
Note1: During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance or data was observed.							

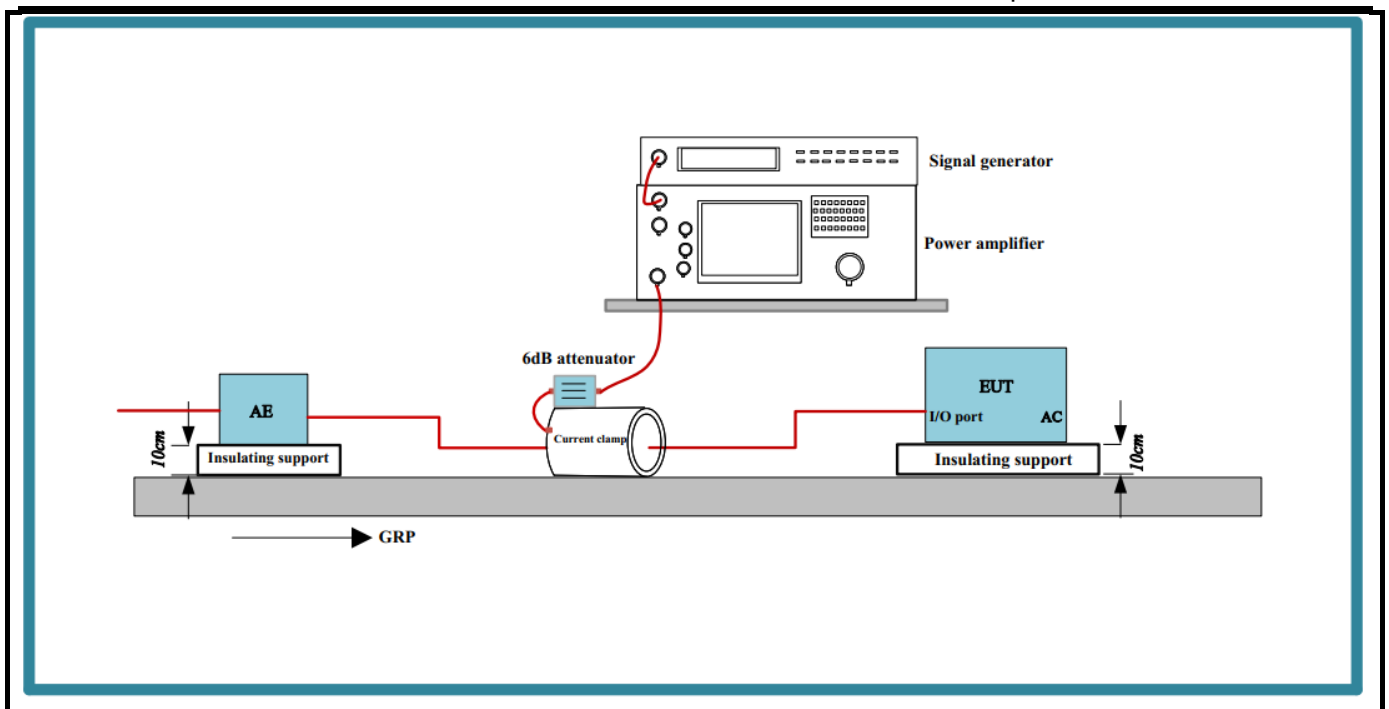
5.6 Radio-frequency common mode

5.6.1 Limit

Basic Standard	IEC 61000-4-6				
Application Points	Frequency Range (MHz)	Test Level (V)	Modulation	Step Size	Performance Criteria
Input and output DC power ports	0.15 to 80	10	1 kHz (80% AM)	1%	A

5.6.2 Test Setup

☐ Schematic setup for immunity test used for CDN

☒ Schematic setup for immunity test used for injection clamp



5.6.3 Test Procedures

The EUT shall be tested within its intended operating and climatic conditions.

Local interference regulations shall be adhered to with respect to the radiation from the test setup. If the radiated energy exceeds the permitted level, a shielded enclosure shall be used.

The test shall be performed with the test generator connected to each of the coupling devices (CDN, EM clamp, current clamp) in turn. All other cables not under test shall either be disconnected (when functionally allowed) or provided with decoupling networks or unterminated CDNs only.

A low-pass filter (LPF) and/or a high-pass filter (HPF), (e. g. 100 kHz cut-off frequency) maybe required at the output of the test generator to prevent (higher order or sub-) harmonics from disturbing the EUT.

The band stop characteristics of the LPF shall be sufficient to suppress the harmonics so that they do not affect the results. These filters shall be inserted after the test generator before setting the test level.

The frequency range is swept from 150 kHz to 80 MHz, using the signal levels established during the setting process, and with the disturbance signal 80 % amplitude modulated with a 1 kHz sine wave, pausing to adjust the RF signal level or to change coupling devices as necessary. Where the frequency is swept incrementally, the step size shall not exceed 1 % of the preceding frequency value. The dwell time of the amplitude modulated carrier at each frequency shall not be less than the time necessary for the EUT to be exercised and to respond, but shall in no case be less than 0,5 s. The sensitive frequencies (e.g. clock frequencies or frequencies identified by the manufacturer or obtained as outcome of the test) shall be analysed in addition to the stepped frequencies.

**5.6.4 Test Results**

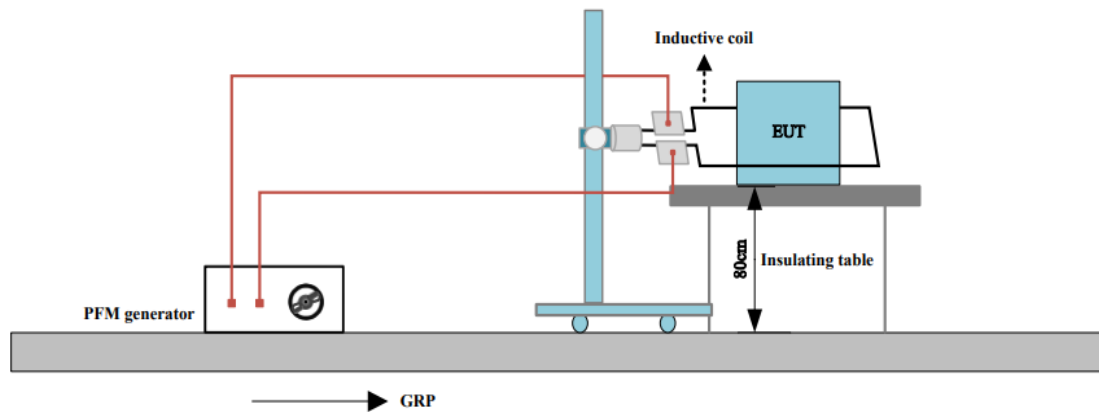
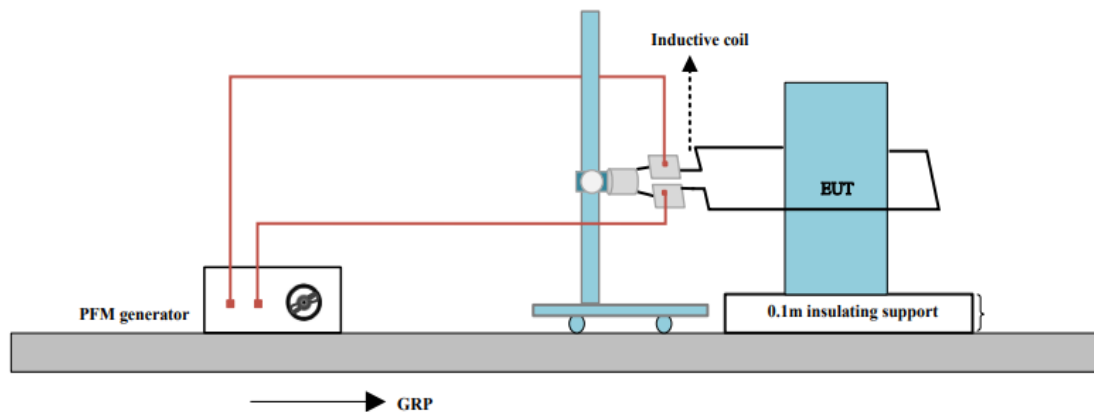
Test site		AC1					
Test Date		2026.05.20					
Environment Condition		Temperature: 21°C; Relative Humidity: 52%; Pressure: 100.6kPa.					
Mains voltage / frequency		Battery					
Test Mode		Mode 1&Mode 2					
Frequency range (MHz)	Test Level (V)	Port under test	Inject Method	Dwell Time (s)	Observation	outcome criteria	Test results
0.15 to 80	10	DC power ports	Current Clamp	3	Note1	A	Pass
Note1: During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance or data was observed.							

5.7 Power-frequency magnetic field

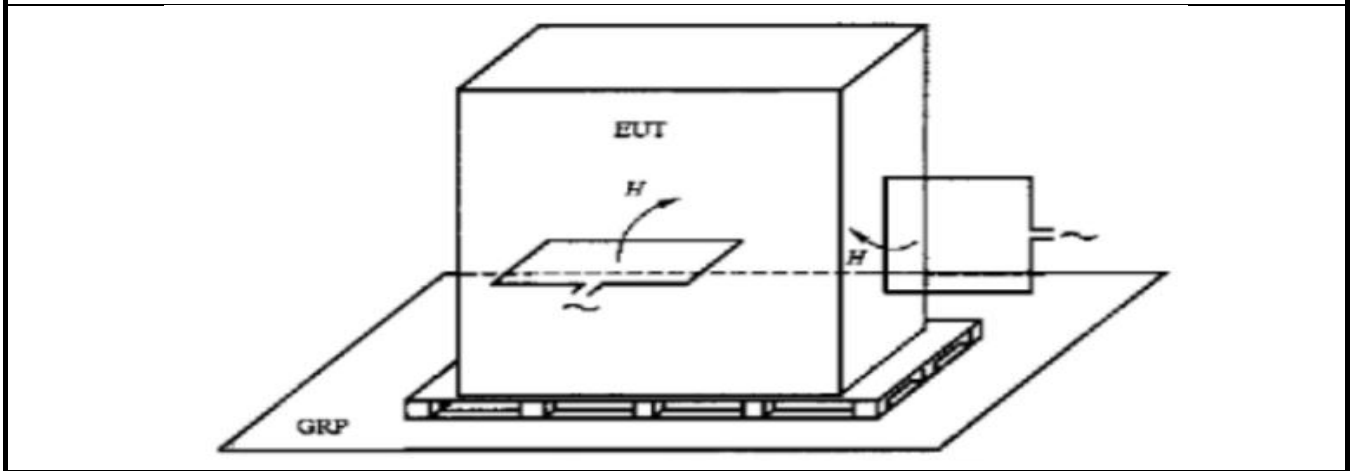
5.7.1 Limit

Basic Standard	IEC 61000-4-8
Test Frequency	50 or 60 Hz
Field Strength	30 A/m
Performance criteria	A

5.7.2 Test Setup

☐ Equipment on the table

☐ Equipment standing on floor


☒ Example of investigation of susceptibility to magnetic field by the proximity method with the 1 m x 1 m inductive coil



5.7.3 Test Procedures

The induction coil shall be rotated by 90° in order to expose the EUT to the test field with different orientation (X, Y, Z Orientations). Testing not less than 1 min for each orientation of the applied field.

5.7.4 Test Results

Test site		AC1				
Test Date		2026.05.20				
Environment Condition		Temperature: 21°C; Relative Humidity: 52%; Pressure: 100.6kPa.				
Mains voltage / frequency		Battery				
Test Mode		Mode 1&Mode 2				
Test frequency	Field Strength (A/m)	Test time (s)	Axis	Observation	outcome criteria	Test results
50 Hz	30	60	X	Note1	A	Pass
50 Hz	30	60	Y	Note1	A	Pass
50 Hz	30	60	Z	Note1	A	Pass
60 Hz	30	60	X	Note1	A	Pass
60 Hz	30	60	Y	Note1	A	Pass
60 Hz	30	60	Z	Note1	A	Pass
Note1: During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance or data was observed.						



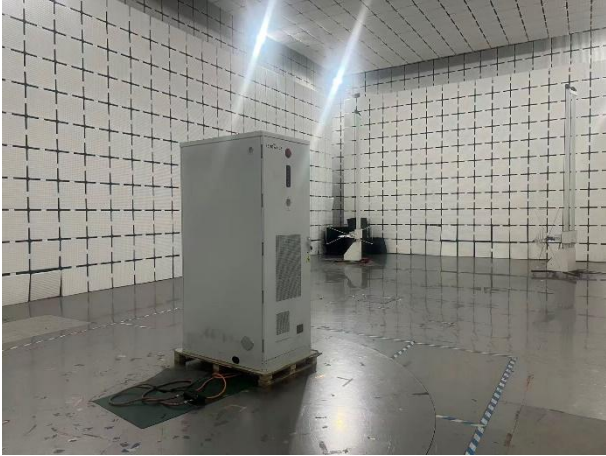
6 SETUP PHOTO AND EUT PHOTO

The test setup photo and EUT Photo refer to appendix.

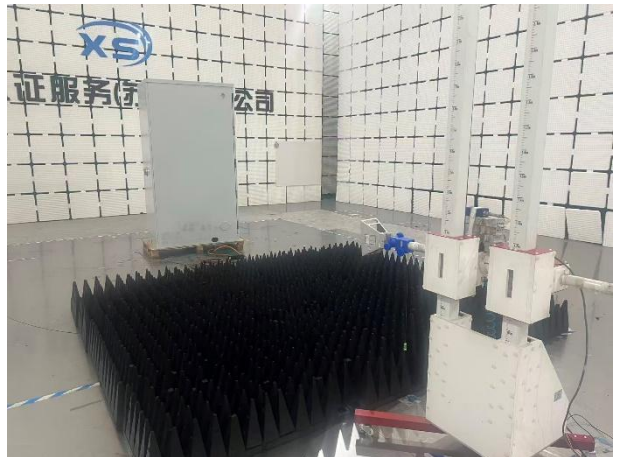
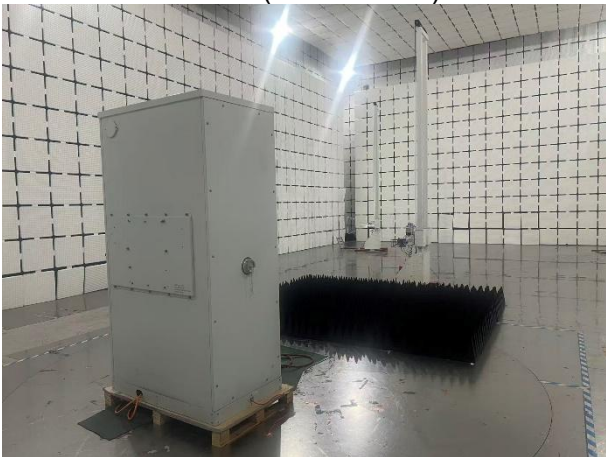
APPENDIX

Test Photos and EUT Photos

Radiated Emissions(30MHz-1GHz)



Radiated Emissions(1GHz-6GHz)



Conducted Emissions

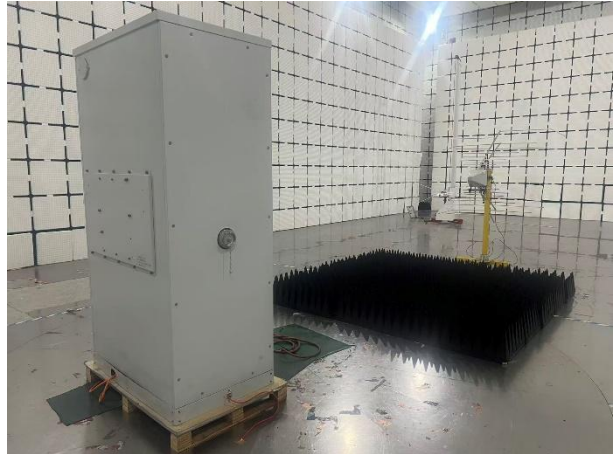


Test Photos and EUT Photos

Electrostatic discharge



Radio-frequency electromagnetic field



Fast transients



Test Photos and EUT Photos

Surges



Radio-frequency common mode



Power-frequency magnetic field



Test Photos and EUT Photos

EUT Photos



EENOVANCE Rechargeable Li-ion Battery System IFP74/176/210/[(16S)8S]E/-20+50/90	
DC Data	
Model: E-MATE 128-A	Battery Type: LFP
Rated Capacity: 314Ah	Max. Current: 179A
Rated Energy: 128614.4Wh	Nominal Voltage(V): DC409.6V
Nominal Power: 64.3KW	Voltage Range: DC358.4~DC460.8V
Auxiliary Power Supply	
Nominal Input Voltage(V): L/N/PE AC 230V 50/60 Hz	
Nominal Input Current(A): AC 30A	
General Data	
Ingress Protection: IP55	Operation Ambient Temperature: -20 ~50℃
Weight: 1650±50kg	Protective Class: I
Dimension: L780±5xW1257±5xH2373.5±5mm	Date of Manufacture: 05/2026
Serial No: SQEC012805E1701D520001	
	
Shenzhen EEnovance Energy Technology CO.,LTD Room401 Building 2 Yufengda Industrial Park No.1008 Guanggao Avenue Yulu Community Yutang Streets Guangming District SHENZHEN Guangdong P.R.China	

THE END