

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26K4XV 001	Auftrags-Nr.: <i>Order no.:</i>	326187889	Seite 1 von 36 Page 1 of 36
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2089836	Auftragsdatum: <i>Order date:</i>	2026-05-21	
Auftraggeber: <i>Client:</i>	Pylon Technologies Co., Ltd. No.300, Miaoqiao Road, Kangqiao Town, Pudong New Area, 201315 Shanghai P.R. China			
Prüfgegenstand: <i>Test item:</i>	LFP Lithium Ion Energy Storage Battery System			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	RM-15-Pro, RM-22-Pro, RM-30-Pro, RM-37-Pro, RM-45-Pro, RM-52-Pro, RM-60-Pro, RM-67-Pro, RM-75-Pro, RM-15, RM-22, RM-30, RM-37, RM-45, RM-52, RM-60, RM-67, RM-75			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	EN IEC 61000-6-1:2019 EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021 EN IEC 61000-6-4:2019 EN 301 489-1 V2.2.3:2019 EN 301 489-17 V3.3.1:2024			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-06-01			
Prüfmuster-Nr.: <i>Test sample no.:</i>	Engineering Sample			
Prüfzeitraum: <i>Testing period:</i>	Refer to test report			
Ort der Prüfung: <i>Place of testing:</i>	Refer to Clause 1.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	Yuxuan Yang	genehmigt von: <i>authorized by:</i>	Qihua Cao	
Datum: <i>Date:</i>	2026-06-24	Ausstellungsdatum: <i>Issue date:</i>	2026-06-24	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	The emission requirements of EN IEC 61000-6-3:2021 and immunity requirements of EN IEC 61000-6-2:2019 are stricter than those of EN IEC 61000-6-4:2019 and EN IEC 61000-6-1:2019 respectively. Therefore, all the EMC tests were performed according to EN IEC 61000-6-3:2021, EN IEC 61000-6-2:2019.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: CN26K4XV 001
Test report no.:

Seite 2 von 36
Page 2 of 36

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
2	Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature <i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i>
3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Prüfbericht - Nr.: CN26K4XV 001
*Test Report No.*Seite 3 von 36
Page 3 of 36**Revision history of test report:**

Report number	Issue date	Contents and reason for change if appropriate
CN26K4XV 001	2026-06-24	Initial release.

Test Summary

5.1.1 RADIATED EMISSIONS, ENCLOSURE PORT*RESULT: Pass***5.1.2 HARMONIC CURRENT EMISSIONS, LOW VOLTAGE AC MAINS PORT***RESULT: Not applicable***5.1.3 VOLTAGE FLUCTUATIONS AND FLICKER, LOW VOLTAGE AC MAINS PORT***RESULT: Not applicable***5.1.4 CONDUCTED EMISSIONS - LOW VOLTAGE AC MAINS PORT***RESULT: Not applicable***5.1.5 CONDUCTED EMISSIONS – DC POWER PORT***RESULT: Not applicable***5.1.6 CONDUCTED EMISSIONS – OTHER WIRED PORTS***RESULT: Not applicable***5.2.1 RADIO-FREQUENCY ELECTROMAGNETIC FIELD, AMPLITUDE MODULATED***RESULT: Pass***5.2.2 ELECTROSTATIC DISCHARGE***RESULT: Pass***5.2.3 FAST TRANSIENTS***RESULT: Not applicable***5.2.4 RADIO-FREQUENCY COMMON MODE***RESULT: Not applicable***5.2.5 VOLTAGE DIPS AND INTERRUPTIONS***RESULT: Not applicable***5.2.6 SURGES***RESULT: Pass***5.2.7 POWER-FREQUENCY MAGNETIC FIELD***RESULT: Pass*

Contents

1	TEST SITES.....	6
1.1	TEST FACILITIES.....	6
1.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
1.3	UNCERTAINTY OF MEASUREMENT	7
2	GENERAL PRODUCT INFORMATION	8
2.1	PRODUCT FUNCTION AND INTENDED USE	8
2.2	RATINGS AND SYSTEM DETAILS	8
2.3	INDEPENDENT OPERATION MODES	10
2.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	10
2.5	SUBMITTED DOCUMENTS.....	10
3	TEST SET-UP AND OPERATION MODES	11
3.1	PRINCIPLE OF CONFIGURATION SELECTION	11
3.2	TEST OPERATION AND RELEVANT DESCRIPTION	11
3.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
3.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	11
4	IMMUNITY PERFORMANCE CRITERIA	12
4.1	PERFORMANCE CRITERIA OF EN IEC 61000-6-2.....	12
4.2	PERFORMANCE CRITERIA OF EN 301 489-1	13
4.3	PERFORMANCE CRITERIA OF EN 301 489-17	14
5	TEST RESULTS OF EMC REQUIREMENT	15
5.1	TEST RESULTS OF EMISSION	15
5.1.1	<i>Radiated emissions, enclosure port</i>	<i>15</i>
5.1.2	<i>Harmonic current emissions, low voltage AC mains port</i>	<i>24</i>
5.1.3	<i>Voltage fluctuations and flicker, low voltage AC mains port</i>	<i>24</i>
5.1.4	<i>Conducted emissions - low voltage AC mains port.....</i>	<i>24</i>
5.1.5	<i>Conducted emissions – DC power port.....</i>	<i>25</i>
5.1.6	<i>Conducted emissions – other wired ports</i>	<i>25</i>
5.2	TEST RESULTS OF IMMUNITY	26
5.2.1	<i>Radio-frequency electromagnetic field, Amplitude modulated</i>	<i>26</i>
5.2.2	<i>Electrostatic discharge</i>	<i>27</i>
5.2.3	<i>Fast transients.....</i>	<i>28</i>
5.2.4	<i>Radio-frequency common mode</i>	<i>28</i>
5.2.5	<i>Voltage dips and interruptions</i>	<i>29</i>
5.2.6	<i>Surges</i>	<i>30</i>
5.2.7	<i>Power-frequency magnetic field.....</i>	<i>31</i>
6	PHOTOGRAPHS OF THE TEST SET-UP	32
7	LIST OF TABLES	36
8	LIST OF PHOTOGRAPHS	36

1 Test Sites

1.1 Test Facilities

Laboratory: BTL Inc. (Shanghai)

Address: No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai, China.

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

1.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Radiated emissions				
TRILOG Broadband Test Antenna	Schwarzbeck	VULB 9168	1467	Feb. 06, 2027
Pre-Amplifier	emci	EMC9135	980401	Dec. 26, 2026
MXE EMI Receiver	Keysight	N9038A	MY56400088	Dec. 26, 2026
Test Cable	Regal Way	RWLP50-104-SMSM-7M	20260228-003	Mar. 12, 2027
Test Cable	Regal Way	RWLP50-104-SMSM-2.5M	20260228-005	Mar. 12, 2027
Test Cable	Regal Way	RWLP50-104-SMSM-0.8M	20260228-001	Mar. 12, 2027
Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3117	206960	Feb. 06, 2027
Pre-Amplifier	emci	EMC012645B	980221	Dec. 26, 2026
EXA Spectrum Analyzer	Keysight	N9010A	MY56480561	Dec. 26, 2026
Test Cable	emci	EMC104-SM-NM-2500	170644	Mar. 14, 2027
Test Cable	emci	EMC104HS-SM-SM-800	N/A	Mar. 14, 2027
Test Cable	emci	EMCRG400-BM-NM-10000	N/A	Mar. 14, 2027
Measurement Software	Farad	EZ-EMC Ver.NB-03A1		N/A
Radio frequency electromagnetic field (80MHz to 6000MHz)				
EPM Series Power Meter	KEYSIGHT	N1914A	MY63030002	Dec. 27, 2026
Power meter	Agilent	E9301A	MY41498125	Dec. 27, 2026
Power meter	Agilent	E9301A	MY41498179	Dec. 27, 2026
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY57301531	Dec. 27, 2026
Amplifier	RFLIGHT	NTWPA-1060200B	24013022	Dec. 27, 2026
Amplifier	RFLIGHT	NTWPA-00810500B	24023025	Dec. 27, 2026
Microwave Log.-Per.Antenna	Schwarzbeck	STLP 9129	3086	Jul. 22, 2026
Electrostatic discharge				
ESD Simulator	NoiseKen	TC-815R	ESS06X6245	Feb.5, 2027

Surge				
Surge Power CDN	3C TEST	CWS 600G+SPN 69200T	ES071004124001/ ES071004124001	Dec. 26, 2026
Combination Wave Lightning Surge Simulator	3C TEST	CWS 600T	ES058000523014	Dec. 26, 2026
CDN	3CTEST	CDN 405T8A1	ES064001224001	Dec. 26, 2026
CDN	3CTEST	CDN 405M40-5	230740300	Dec. 26, 2026
Power-frequency magnetic field				
MFO/Magnetic Field Option	Teseq	MFO 6501	1006	Dec. 27, 2026
Magnetic Field Coils	Teseq	INA 702	328	Dec. 27, 2026

1.3 Uncertainty of Measurement

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

Table 2: Measurement Uncertainty

Test Items		Measurement Uncertainty
Radiated Emission	30M~1GHz	4.70dB
	1GHz~6GHz	4.30dB

2 General Product Information

2.1 Product Function and Intended Use

The product is an LFP Lithium Ion Energy Storage Battery System with Wi-Fi and Bluetooth Low Energy functions. For further information, refer to the user's manual.

According to the customer's statement, the model RM-XX-Pro has a heating film, while RM-XX does not. The other differences are only normal voltage, charge and discharge voltage and rated energy, which depend on the number of battery packs. All models have exactly the same wireless technology and specifications. Refer to Table 3 for details.

Therefore, all tests were performed on the model RM-75-Pro.

For details refer to user manual and circuit diagram.

2.2 Ratings and System Details

Table 3: Product description

General Information of EUT						
Kind of Equipment	LFP Lithium Ion Energy Storage Battery System					
Model Name	RM-15-Pro	RM-22-Pro	RM-30-Pro	RM-37-Pro	RM-45-Pro	RM-52-Pro
Nominal voltage	147.2Vd.c.	220.8Vd.c.	294.4Vd.c.	368.0Vd.c.	441.6Vd.c.	515.2Vd.c.
Rated capacity	102Ah					
Rated energy	15.0kWh	22.5kWh	30.0kWh	37.5kWh	45.0kWh	52.5kWh
Upper limit charging voltage	163.3Vd.c.	244.95Vd.c.	326.6Vd.c.	408.25Vd.c.	489.9Vd.c.	571.55Vd.c.
Max. Charging/Discharging Current	50A(55A@15min)					
Configuration	(23S)2S	(23S)3S	(23S)4S	(23S)5S	(23S)6S	(23S)7S
Test Voltage	515.2Vd.c.					
Kind of Equipment	LFP Lithium Ion Energy Storage Battery System					
Model Name	RM-60-Pro	RM-67-Pro	RM-75-Pro	RM-15	RM-22	RM-30
Nominal voltage	588.8Vd.c.	662.4Vd.c.	736.0Vd.c.	147.2Vd.c.	220.8Vd.c.	294.4Vd.c.
Rated capacity	102Ah					
Rated energy	60.0kWh	67.5kWh	75.0kWh	15.0kWh	22.5kWh	30.0kWh
Upper limit charging voltage	653.2Vd.c.	734.85Vd.c.	816.5Vd.c.	163.3Vd.c.	244.95Vd.c.	326.6Vd.c.
Max. Charging/Discharging Current	50A(55A@15min)					
Configuration	(23S)8S	(23S)9S	(23S)10S	(23S)2S	(23S)3S	(23S)4S
Test Voltage	816.5Vd.c.					
Kind of Equipment	LFP Lithium Ion Energy Storage Battery System					
Model Name	RM-37	RM-45	RM-52	RM-60	RM-67	RM-75
Nominal voltage	368.0Vd.c.	441.6Vd.c.	515.2Vd.c.	588.8Vd.c.	662.4Vd.c.	736.0Vd.c.

Prüfbericht - Nr.: CN26K4XV 001
Test Report No.

Seite 9 von 36

Page 9 of 36

Rated capacity	102Ah					
Rated energy	37.5kWh	45.0kWh	52.5kWh	60.0kWh	67.5kWh	75.0kWh
Upper limit charging voltage	408.25Vd.c.	489.9Vd.c.	571.55Vd.c.	653.2Vd.c.	734.85Vd.c.	816.5Vd.c.
Max. Charging/Discharging Current	50A(55A@15min)					
Configuration	(23S)5S	(23S)6S	(23S)7S	(23S)8S	(23S)9S	(23S)10S
Test Voltage	816.5Vd.c.					

Cable and port identification

Port Type	Typical length [m]
DC power port, Unshielded	≤ 3 m
RS485 ports, Unshielded	≤ 3 m
Wired network ports, Unshielded	≤ 3 m

2.3 Independent Operation Modes

The basic operation modes are:

- A. Charge
- B. Discharge
- C. Wi-Fi communication link + Bluetooth communication link

2.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

2.5 Submitted Documents

- User Manual
- Rating Label

3 Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

3.2 Test Operation and Relevant Description

Test operation refers to test setup in chapter 5 and chapter 6.

This testing was carried out on all operation modes, but only the worst case was presented in this report.

3.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Kind of Equipment	Manufacturer	Type	S/N
Notebook	Lenovo	E470C	N/A

3.4 Countermeasures to Achieve EMC Compliance

No additional measures were employed to achieve compliance.

4 Immunity Performance Criteria

The performance criterion to be used during test is detailed below:

4.1 Performance Criteria of EN IEC 61000-6-2

Performance criterion 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.

Performance criterion 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.

Performance criterion 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.

4.2 Performance Criteria of EN 301 489-1

Performance criteria for continuous phenomena

During the test, the equipment shall:

- continue to operate as intended;
- not unintentionally transmit;
- not unintentionally change its operating state;
- not unintentionally change critical stored data.

Performance criteria for transient phenomena

For all ports and transient phenomena with the exception described below, the following applies:

- The application of the transient phenomena shall not result in a change of the mode of operation (e.g. unintended transmission) or the loss of critical stored data.
- After application of the transient phenomena, the equipment shall operate as intended.

For surges applied to symmetrically operated wired network ports intended to be connected directly to outdoor lines the following criteria applies:

- For products with only one symmetrical port intended for connection to outdoor lines, loss of function is allowed, provided the function is self-recoverable, or can be otherwise restored. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.
- For products with more than one symmetrical port intended for connection to outdoor lines, loss of function on the port under test is allowed, provided the function is self-recoverable. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

4.3 Performance Criteria of EN 301 489-17

General performance criteria

The performance criteria are:

- performance criteria A for immunity tests with phenomena of a continuous nature;
- performance criteria B for immunity tests with phenomena of a transient nature;
- performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following clauses.

Performance criteria overview

Criteria	During test	After test
A	Shall operate as intended. Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance. Shall be no loss of function. Shall be no loss of critical stored data.
B	May be loss of function.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no loss of critical stored data.
C	May be loss of function.	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no loss of critical stored data.

Minimum performance level

For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER, the minimum performance level shall be no loss of the wireless transmission function needed for the intended use of the equipment.

5 Test Results of EMC Requirement

5.1 Test Results of EMISSION

5.1.1 Radiated emissions, enclosure port

RESULT:

Pass

Test Specification

Test standard	: EN IEC 61000-6-3:2021 EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1
Test requirement	: EN IEC 61000-6-3:2021, Clause 11, Table 3 EN 301 489-1 V2.2.3, Clause 8.2 EN 301 489-17 V3.3.1, Clause 7.1
Frequency range	: 30MHz – 6GHz
Limit	: EN IEC 61000-6-3:2021, Table 3 EN 55032:2015, Table A.4 & A.5

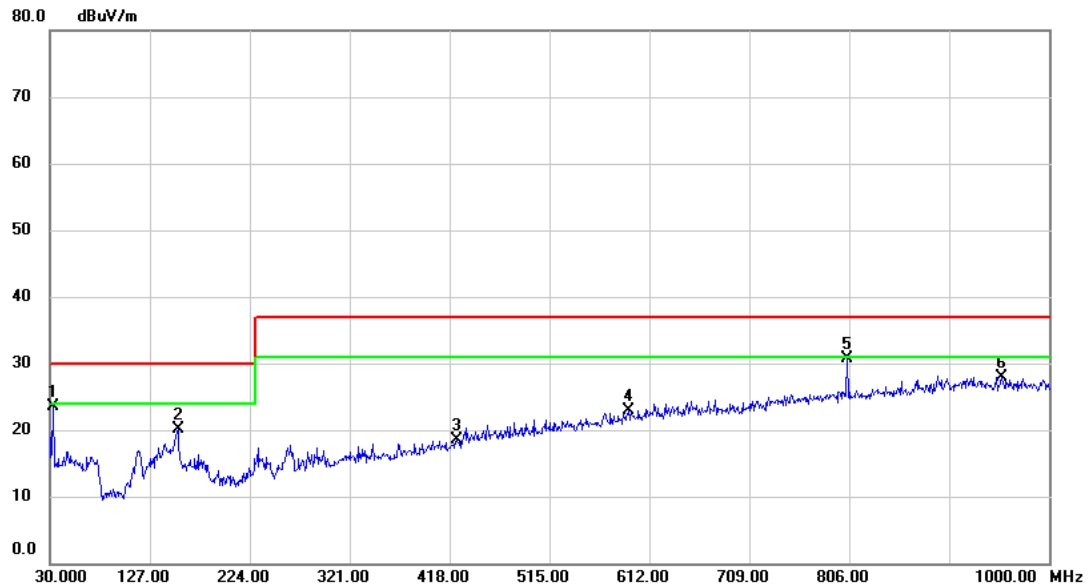
Test Setup

Date of testing	: 2026-06-07
Test mode	: A+C, B+C
Test ports	: Enclosure
Ambient temperature	: 25°C
Relative humidity	: 60%

Test results:

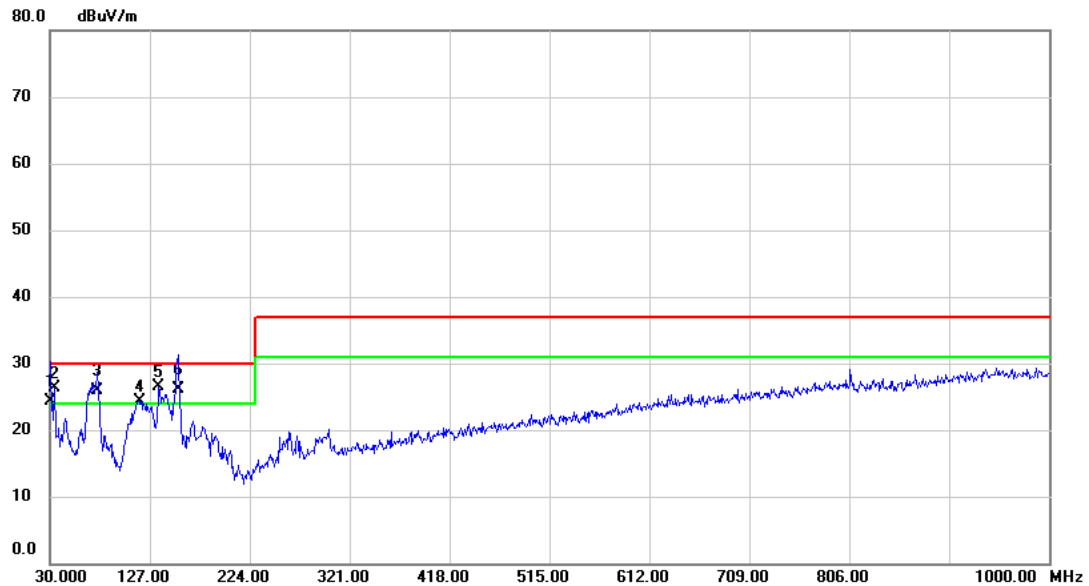
Prüfbericht - Nr.: CN26K4XV 001
Test Report No.

Seite 16 von 36
Page 16 of 36

Test Mode: A+C
Antenna Polarization: Horizontal


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		32.9100	41.90	-18.36	23.54	30.00	-6.46	peak	372	360
2		154.1600	36.52	-16.38	20.14	30.00	-9.86	peak	299	0
3		424.7900	31.03	-12.56	18.47	37.00	-18.53	peak	200	177
4		591.6300	31.87	-9.02	22.85	37.00	-14.15	peak	399	360
5 *		804.0600	36.75	-6.11	30.64	37.00	-6.36	peak	100	2
6		953.4400	32.70	-4.70	28.00	37.00	-9.00	peak	200	360

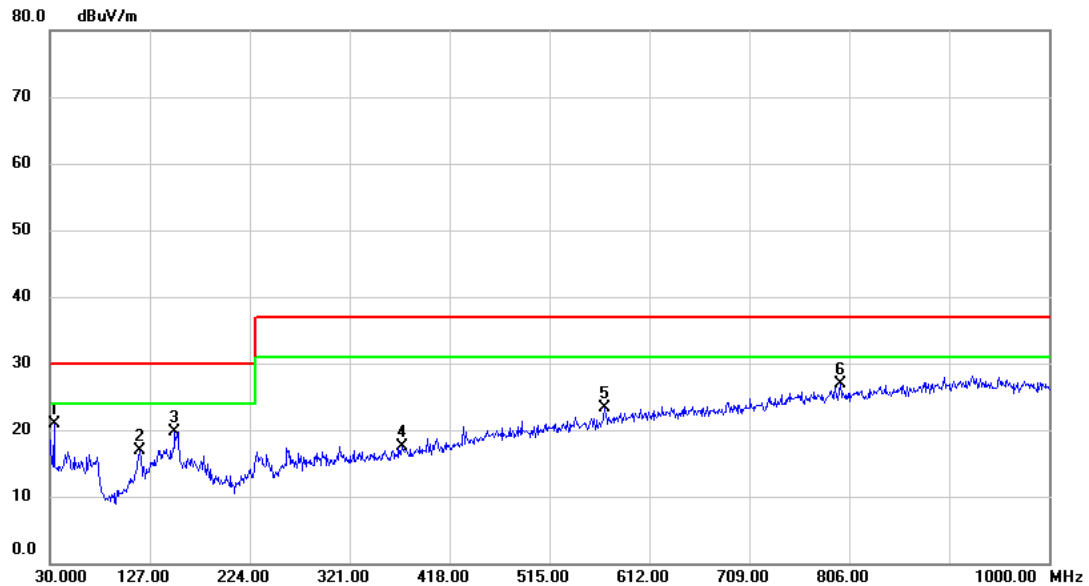
Test Mode: A+C
Antenna Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	!	30.0000	42.64	-18.25	24.39	30.00	-5.61	QP	100	286
2	!	33.8800	44.37	-18.04	26.33	30.00	-3.67	peak	399	360
3	!	76.0750	45.93	-19.96	25.97	30.00	-4.03	QP	200	201
4	!	116.8150	43.30	-18.96	24.34	30.00	-5.66	peak	100	117
5	*	135.7300	43.65	-17.14	26.51	30.00	-3.49	peak	100	0
6	!	154.6450	42.16	-16.03	26.13	30.00	-3.87	QP	100	277

Prüfbericht - Nr.: CN26K4XV 001
Test Report No.

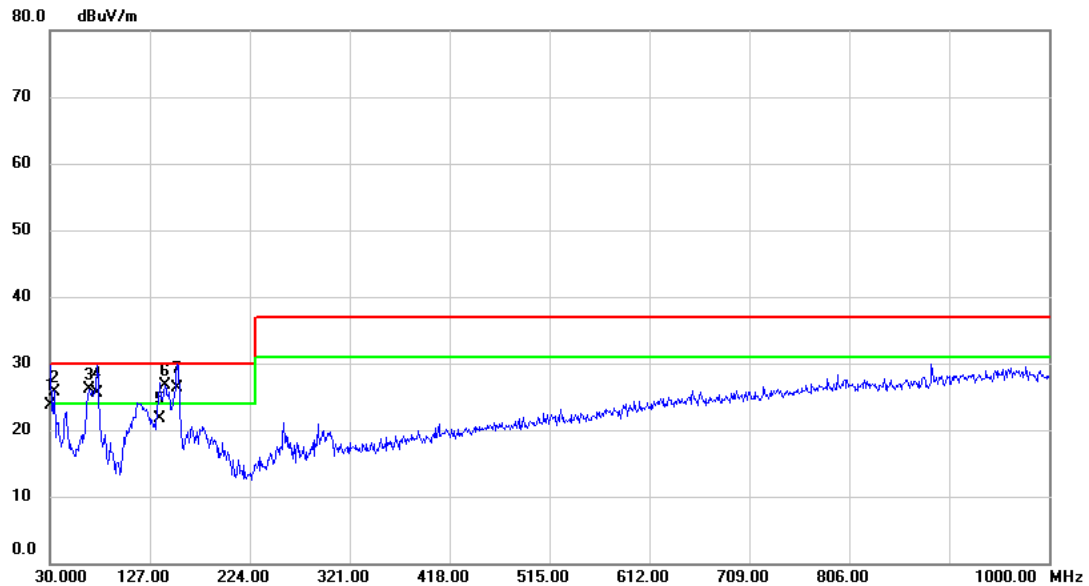
Seite 18 von 36
Page 18 of 36

Test Mode: B+C
Antenna Polarization: Horizontal


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	
1	*	33.8800	39.17	-18.29	20.88	30.00	-9.12	peak	361	360
2		117.3000	36.08	-19.18	16.90	30.00	-13.10	peak	300	111
3		151.2500	36.17	-16.43	19.74	30.00	-10.26	peak	299	0
4		371.4400	31.37	-13.92	17.45	37.00	-19.55	peak	250	0
5		568.3500	32.93	-9.63	23.30	37.00	-13.70	peak	300	53
6		797.2700	33.00	-6.15	26.85	37.00	-10.15	peak	300	360

Prüfbericht - Nr.: CN26K4XV 001
Test Report No.

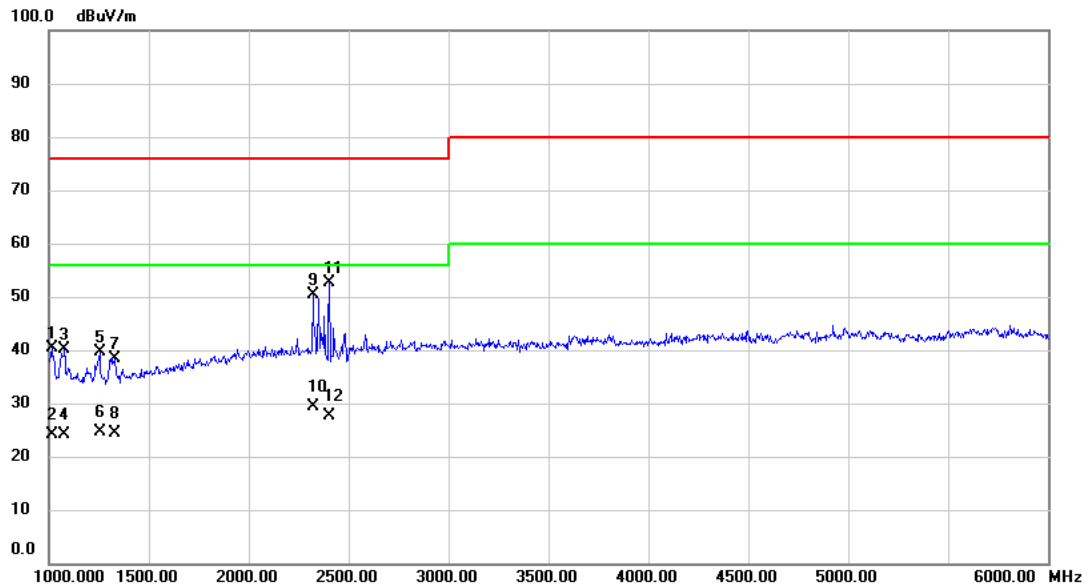
Seite 19 von 36
Page 19 of 36

Test Mode: B+C
Antenna Polarization: Vertical


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		30.0000	42.02	-18.25	23.77	30.00	-6.23	QP	100	275	
2	!	33.8800	43.84	-18.04	25.80	30.00	-4.20	peak	400	152	
3	!	67.8300	44.46	-18.32	26.14	30.00	-3.86	peak	100	226	
4	!	76.0750	45.56	-19.96	25.60	30.00	-4.40	QP	199	172	
5		136.7000	38.70	-17.05	21.65	30.00	-8.35	QP	100	67	
6	*	142.0350	43.26	-16.61	26.65	30.00	-3.35	peak	100	77	
7	!	153.6750	42.40	-16.04	26.36	30.00	-3.64	QP	100	256	

Prüfbericht - Nr.: CN26K4XV 001
Test Report No.

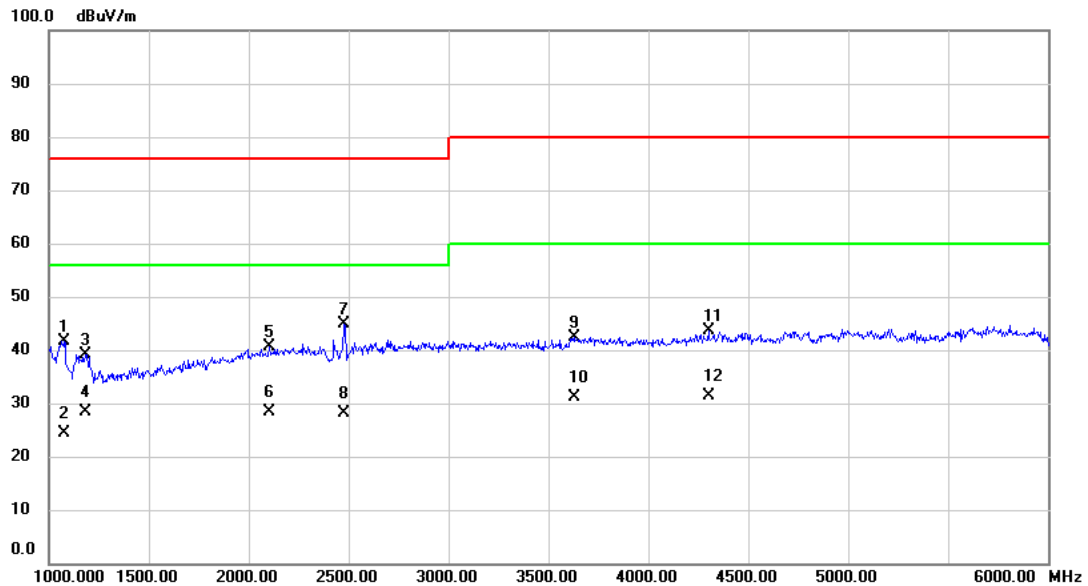
Seite 20 von 36
Page 20 of 36

Test Mode: A+C
Antenna Polarization: Horizontal


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		1013.500	58.58	-18.31	40.27	76.00	-35.73	peak	100	173
2		1013.500	42.39	-18.31	24.08	56.00	-31.92	AVG	100	173
3		1078.250	58.03	-18.00	40.03	76.00	-35.97	peak	100	299
4		1078.250	42.18	-18.00	24.18	56.00	-31.82	AVG	100	299
5		1254.500	56.84	-17.17	39.67	76.00	-36.33	peak	100	158
6		1254.500	41.92	-17.17	24.75	56.00	-31.25	AVG	100	158
7		1330.000	55.30	-16.81	38.49	76.00	-37.51	peak	200	206
8		1330.000	41.19	-16.81	24.38	56.00	-31.62	AVG	200	206
9		2324.500	60.96	-10.55	50.41	76.00	-25.59	peak	200	179
10		2324.500	39.98	-10.55	29.43	56.00	-26.57	AVG	200	179
11	*	2401.750	62.98	-10.30	52.68	76.00	-23.32	peak	100	127
12		2401.750	38.05	-10.30	27.75	56.00	-28.25	AVG	100	127

Prüfbericht - Nr.: CN26K4XV 001
Test Report No.

Seite 21 von 36
Page 21 of 36

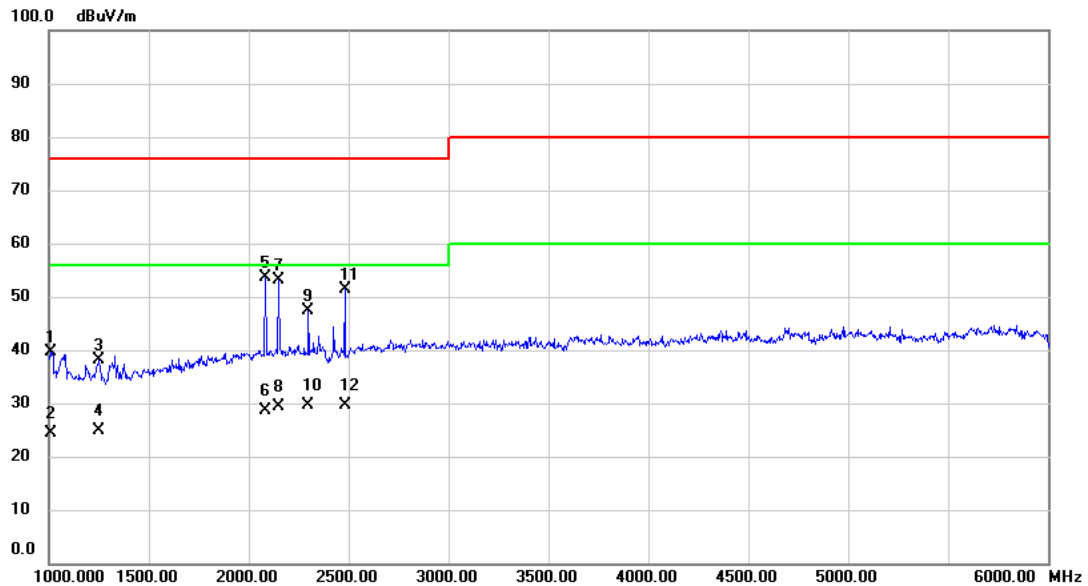
Test Mode: A+C
Antenna Polarization: Vertical


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		1078.750	59.66	-18.00	41.66	76.00	-34.34	peak	100	171
2		1078.750	42.47	-18.00	24.47	56.00	-31.53	AVG	100	171
3		1183.000	56.65	-17.50	39.15	76.00	-36.85	peak	200	181
4		1183.000	45.89	-17.50	28.39	56.00	-27.61	AVG	200	181
5		2102.250	51.91	-11.28	40.63	76.00	-35.37	peak	200	325
6 *		2102.250	39.71	-11.28	28.43	56.00	-27.57	AVG	200	325
7		2479.750	54.96	-10.04	44.92	76.00	-31.08	peak	104	360
8		2479.750	38.11	-10.04	28.07	56.00	-27.93	AVG	104	360
9		3629.000	50.66	-8.21	42.45	80.00	-37.55	peak	128	360
10		3629.000	39.45	-8.21	31.24	60.00	-28.76	AVG	128	360
11		4300.250	51.07	-7.52	43.55	80.00	-36.45	peak	200	338
12		4300.250	38.79	-7.52	31.27	60.00	-28.73	AVG	200	338

Prüfbericht - Nr.: CN26K4XV 001
Test Report No.

Seite 22 von 36

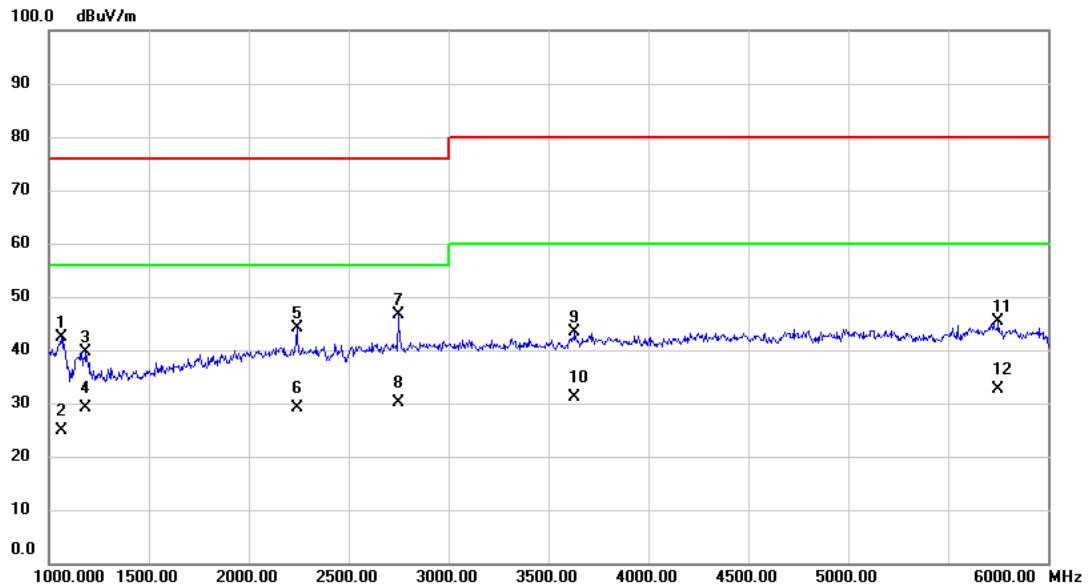
Page 22 of 36

Test Mode: B+C
Antenna Polarization: Horizontal


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		1008.250	57.99	-18.34	39.65	76.00	-36.35	peak	100	176
2		1008.250	42.72	-18.34	24.38	56.00	-31.62	AVG	100	176
3		1250.500	55.39	-17.18	38.21	76.00	-37.79	peak	100	163
4		1250.500	41.95	-17.18	24.77	56.00	-31.23	AVG	100	163
5 *		2082.000	64.97	-11.34	53.63	76.00	-22.37	peak	200	161
6		2082.000	39.95	-11.34	28.61	56.00	-27.39	AVG	200	161
7		2149.250	64.27	-11.12	53.15	76.00	-22.85	peak	200	174
8		2149.250	40.53	-11.12	29.41	56.00	-26.59	AVG	200	174
9		2298.500	57.93	-10.63	47.30	76.00	-28.70	peak	100	203
10		2298.500	40.25	-10.63	29.62	56.00	-26.38	AVG	100	203
11		2480.750	61.50	-10.04	51.46	76.00	-24.54	peak	100	137
12		2480.750	39.74	-10.04	29.70	56.00	-26.30	AVG	100	137

Prüfbericht - Nr.: CN26K4XV 001
Test Report No.

Seite 23 von 36
Page 23 of 36

Test Mode: B+C
Antenna Polarization: Vertical


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		1064.750	60.45	-18.06	42.39	76.00	-33.61	peak	100	173
2		1064.750	42.87	-18.06	24.81	56.00	-31.19	AVG	100	173
3		1185.000	57.10	-17.49	39.61	76.00	-36.39	peak	200	190
4		1185.000	46.72	-17.49	29.23	56.00	-26.77	AVG	200	190
5		2241.500	54.96	-10.82	44.14	76.00	-31.86	peak	100	103
6		2241.500	39.99	-10.82	29.17	56.00	-26.83	AVG	100	103
7		2749.250	56.02	-9.35	46.67	76.00	-29.33	peak	100	128
8	*	2749.250	39.37	-9.35	30.02	56.00	-25.98	AVG	100	128
9		3632.500	51.47	-8.21	43.26	80.00	-36.74	peak	200	269
10		3632.500	39.46	-8.21	31.25	60.00	-28.75	AVG	200	269
11		5750.000	51.28	-5.86	45.42	80.00	-34.58	peak	200	152
12		5750.000	38.39	-5.86	32.53	60.00	-27.47	AVG	200	152

5.1.2 Harmonic current emissions, low voltage AC mains port

RESULT: Not applicable

Test Specification

Test standard : EN IEC 61000-6-3:2021
EN 301 489-1 V2.2.3
Test requirement : EN IEC 61000-6-3:2021, Clause 11, Table 4
EN 301 489-1 V2.2.3, Clause 8.5

Note: This test is only applicable to EUT which has low voltage AC mains input port. Since the EUT has no AC mains port, this test is not applicable.

5.1.3 Voltage fluctuations and flicker, low voltage AC mains port

RESULT: Not applicable

Test Specification

Test standard : EN IEC 61000-6-3:2021
EN 301 489-1 V2.2.3
Test requirement : EN IEC 61000-6-3:2021, Clause 11, Table 4
EN 301 489-1 V2.2.3, Clause 8.6

Note: This test is only applicable to EUT which has low voltage AC mains input port. Since the EUT has no AC mains port, this test is not applicable.

5.1.4 Conducted emissions - low voltage AC mains port

RESULT: Not applicable

Test Specification

Test standard : EN IEC 61000-6-3:2021
EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1
Test requirement : EN IEC 61000-6-3:2021, Clause 11, Table 4
EN 301 489-1 V2.2.3, Clause 8.4
EN 301 489-17 V3.3.1, Clause 7.1

Note: This test is only applicable to EUT which has low voltage AC mains input port. Since the EUT has no AC mains port, this test is not applicable.

5.1.5 Conducted emissions – DC power port

RESULT: **Not applicable**

Test Specification

Test standard : EN IEC 61000-6-3:2021
EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1

Test requirement : EN IEC 61000-6-3:2021, Clause 11, Table 5
EN 301 489-1 V2.2.3, Clause 8.3
EN 301 489-17 V3.3.1, Clause 7.1

Note: This test is only applicable to DC power ports interfacing with cables whose total length may exceed 3 m. According to the manufacturer's declaration, the cables length of DC power ports used do not exceed 3 m, therefore, this test is not applicable.

5.1.6 Conducted emissions – other wired ports

RESULT: **Not applicable**

Test Specification

Test standard : EN IEC 61000-6-3:2021
EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1

Test requirement : EN IEC 61000-6-3:2021, Clause 11, Table 6
EN 301 489-1 V2.2.3, Clause 8.7
EN 301 489-17 V3.3.1, Clause 7.1

Note: This test is only applicable to wired network ports interfacing with cables whose total length may exceed 3 m. According to the manufacturer's declaration, the cables length of wired network ports used do not exceed 3 m, therefore, this test is not applicable.

5.2 Test Results of IMMUNITY

5.2.1 Radio-frequency electromagnetic field, Amplitude modulated

RESULT:
Pass
Test Specification

Test standard	:	EN IEC 61000-6-2:2019 EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1
Basic standard	:	IEC 61000-4-3
Test requirement	:	EN IEC 61000-6-2:2019, Clause 9, Table 1 EN 301 489-1 V2.2.3, Clause 9.2 EN 301 489-17 V3.3.1, Clause 7.2
Frequency range	:	80 - 6000 MHz
Test level	:	80 - 6000 MHz, 3V/m 80 - 1000 MHz, 10V/m 1.4 – 6GHz, 3V/m
Modulation	:	80% AM by a sinusoidal signal of 1kHz
Frequency scan speed	:	Frequency step: 1%; Dwell time: 3s
Performance criterion	:	Criterion A in section 4.1, Criterion in section 4.2~4.3

Test Setup

Date of testing	:	2026-06-15
Test mode	:	A+C, B+C
Test ports	:	Enclosure
Ambient temperature	:	21°C
Relative humidity	:	46%

Test results:

Ant. Polarization	Position	Result	Remarks
Vertical	Front side	Pass	During and after the test, the EUT can operate as intended.
	Rear side	Pass	
	Left side	Pass	
	Right side	Pass	
Horizontal	Front side	Pass	During and after the test, the EUT can operate as intended.
	Rear side	Pass	
	Left side	Pass	
	Right side	Pass	

5.2.2 Electrostatic discharge

RESULT:
Pass
Test Specification

Test standard	: EN IEC 61000-6-2:2019 EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1
Basic standard	: IEC 61000-4-2
Test requirement	: EN IEC 61000-6-2:2019, Clause 9, Table 1 EN 301 489-1 V2.2.3, Clause 9.3 EN 301 489-17 V3.3.1, Clause 7.2
Test level	: Air discharge: $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$ Contact discharge: $\pm 4\text{kV}$
Number of discharges	: ≥ 10 at each point
Performance criterion	: Criterion B in section 4.1, Criterion in section 4.2~4.3

Test Setup

Date of testing	: 2026-06-12
Test mode	: A+C, B+C
Test Ports	: Enclosure
Ambient temperature	: 24°C
Relative humidity	: 44%
Atmospheric pressure	: 101.4kPa

Test Results:

Test Point	Kind of Discharge	Result	Remarks
Screw	Contact Discharge	Pass	During and after the test, the EUT can operate as intended.
Metallic enclosure	Contact Discharge	Pass	
VCP (Vertical Coupling Plane)	Contact Discharge	Pass	
Switch	Air discharge	Pass	
Button	Air discharge	Pass	
LED	Air discharge	Pass	
Gap	Air discharge	Pass	

5.2.3 Fast transients

RESULT: **Not applicable**

Test Specification

Test standard : EN IEC 61000-6-2:2019
EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1

Test requirement : EN IEC 61000-6-2:2019, Clause 9, Tables 2 & 3 & 4
EN 301 489-1 V2.2.3, Clause 9.4
EN 301 489-17 V3.3.1, Clause 7.2

Note 1: This test is only applicable to signal and/or DC ports interfacing with cables whose total length may exceed 3 m. According to the manufacturer's declaration, the cables length of signal and/or DC ports used do not exceed 3 m, therefore, this test is not applicable.

Note 2: Since the EUT has no AC mains ports, this test is not applicable to AC mains ports.

5.2.4 Radio-frequency common mode

RESULT: **Not applicable**

Test Specification

Test standard : EN IEC 61000-6-2:2019
EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1

Test requirement : EN IEC 61000-6-2:2019, Clause 9 Tables 2 & 3 & 4
EN 301 489-1 V2.2.3, Clause 9.5
EN 301 489-17 V3.3.1, Clause 7.2

Note 1: This test is only applicable to signal and/or DC ports interfacing with cables whose total length may exceed 3 m. According to the manufacturer's declaration, the cables length of signal and/or DC ports used do not exceed 3 m, therefore, this test is not applicable.

Note 2: Since the EUT has no AC mains ports, this test is not applicable to AC mains ports.

5.2.5 Voltage dips and interruptions

RESULT:**Not applicable****Test Specification**

Test standard	: EN IEC 61000-6-2:2019 EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1
Test requirement	: EN IEC 61000-6-2:2019, Clause 9, Table 4 EN 301 489-1 V2.2.3, Clause 9.7 EN 301 489-17 V3.3.1 Clause 7.2

Note: This test is only applicable to EUT which has low voltage AC mains input port. Since the EUT has no AC mains port, this test is not applicable.

5.2.6 Surges

RESULT:
Pass
Test Specification

Test standard	: EN IEC 61000-6-2:2019 EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1
Basic standard	: IEC 61000-4-5:2014+A1
Test requirement	: EN IEC 61000-6-2:2019, Tables 2 & 3 & 4 EN 301 489-1 V2.2.3, Clause 9.8 EN 301 489-17 V3.3.1, Clause 7.2
Test level	: For Signal port, Wired network port : ±1kV, line to earth For DC port: ±0.5kV, line to line ±1kV, line to earth
Number of surges	: 5 (for each combination of parameters)
Repetition rate	: Max. 1/min
Performance criterion	: Criterion B in section 4.1, Criterion in section 4.2~4.3

Test Setup

Date of testing	: 2026-06-12
Test mode	: A+C, B+C
Test Ports	: Signal ports, Wired network port DC port
Ambient temperature	: 20°C
Relative humidity	: 48%

Note 1: Since the EUT has no AC mains ports, this test is not applicable to AC mains ports.

Test Results:

Ports	Coupling Mode	Result	Remarks
Signal ports	Line to earth (±0.5kV, ±1kV)	Pass	During and after the test, the EUT can operate as intended.
Wired network port	Line to earth (±0.5kV, ±1kV)	Pass	During and after the test, the EUT can operate as intended.
DC power port	Line to line (±0.5 kV)	Pass	During and after the test, the EUT can operate as intended.
	Line to earth (±0.5 kV, (±1 kV)	Pass	

5.2.7 Power-frequency magnetic field

RESULT:**Pass****Test Specification**

Test standard	: EN IEC 61000-6-2:2019
Basic standard	: IEC 61000-4-8
Test requirement	: EN IEC 61000-6-2:2019, Clause 9, Table 1
Test level	: 30A/m, 50/60Hz
Performance criterion	: Criterion A in section 4.1

Test Setup

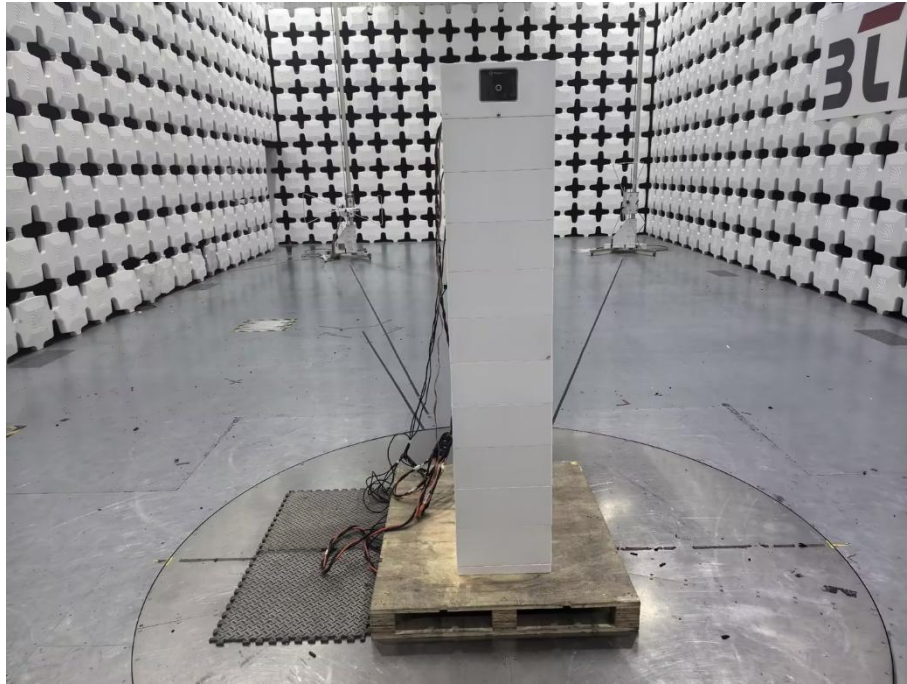
Date of testing	: 2026-06-12
Test mode	: A, B
Test Ports	: Enclosure
Ambient temperature	: 22°C
Relative humidity	: 54%

Test results:

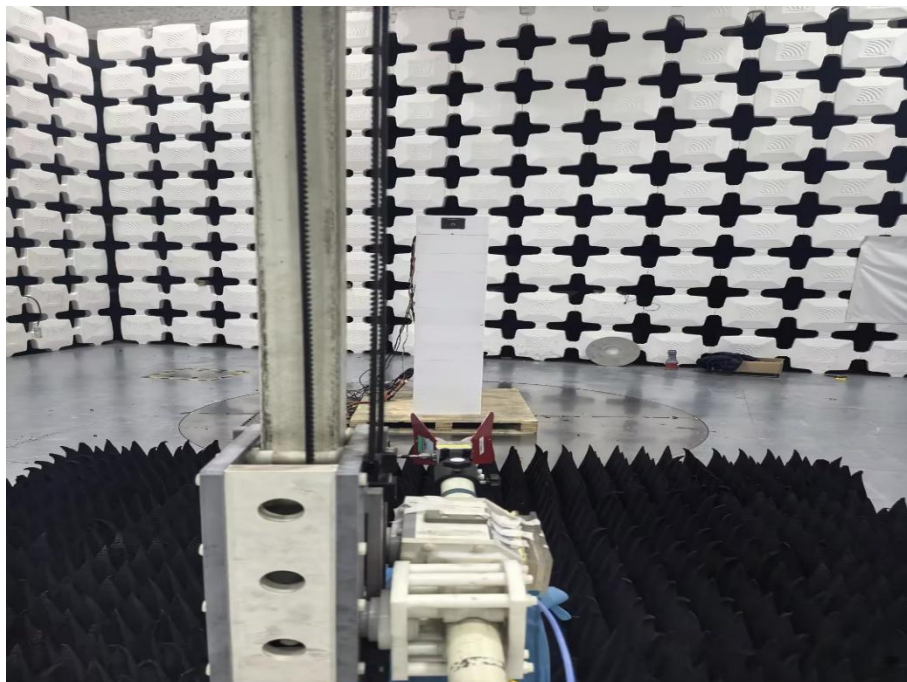
Test Level	Testing Duration	Coil Orientation	Result	Remark
30A/m	1 mins	X	A	During and after the test, the EUT can operate as intended.
30A/m	1 mins	Y	A	
30A/m	1 mins	Z	A	

6 Photographs of the Test Set-Up

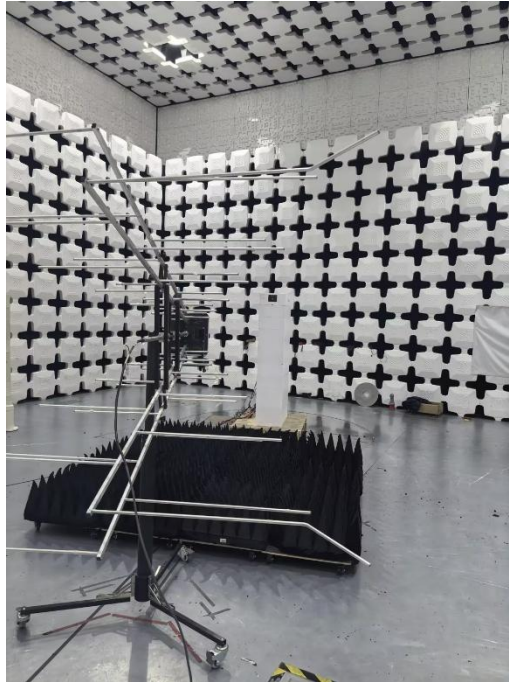
Photograph 1: Set-up for measurement of radiated emissions, 30MHz ~ 1GHz



Photograph 2: Set-up for measurement of radiated emissions, above 1GHz



Photograph 3: Set-up for measurement of radio-frequency electromagnetic field



Photograph 4: Set-up for immunity test of electrostatic discharge



Photograph 5: Set-up for immunity test of power-frequency magnetic field



Photograph 6: Set-up for immunity test of surges



DC port



RS485 port



Wired network port

7 List of Tables

Table 1: List of Test and Measurement Equipment	6
Table 2: Measurement Uncertainty	7
Table 3: Product description	8

8 List of Photographs

Photograph 1: Set-up for measurement of radiated emissions, 30MHz ~ 1GHz	32
Photograph 2: Set-up for measurement of radiated emissions, above 1GHz.....	32
Photograph 3: Set-up for measurement of radio-frequency electromagnetic field	33
Photograph 4: Set-up for immunity test of electrostatic discharge	33
Photograph 5: Set-up for immunity test of power-frequency magnetic field.....	34
Photograph 6: Set-up for immunity test of surges	34

End of Test Report