

EMC TEST REPORT

For

Controller

Test Model: MC5-E0

Prepared for
Address

Prepared by : Shenzhen Southern LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : August 08, 2024
Number of tested samples : 1
Serial number : Prototype
Date of Test : August 08, 2024 - September 06, 2024
Date of Report : December 18, 2025



EMC TEST REPORT EN IEC 61000-6-3:2021 EMC - Part 6-3: Generic standards - Emission standard for equipment in residential environments EN IEC 61000-6-1:2019 EMC - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments		
Report Number..... : LCSB08054051E001 Date of Issue..... : December 18, 2025		
Testing Laboratory Name..... : Shenzhen Southern LCS Compliance Testing Laboratory Ltd. Address..... : 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China.		
Testing Procedure..... : Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐		
Applicant's Name..... : [REDACTED] Address..... : [REDACTED]		
Test Specification: Standard..... : EN IEC 61000-6-3:2021 EN IEC 61000-6-1:2019 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021		
Test Report Form No..... : TRF-4-E-026 Ver. A/0 TRF Originator..... : Shenzhen Southern LCS Compliance Testing Laboratory Ltd. Master TRF..... : Dated 2016-08		
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Equipment Under Test..... : Controller Trademark..... : ANANDA Test Model/Type..... : MC5-E0 Rating..... : DC 36V, Max.250W Results : PASS		
Compiled by:  Amy Liu / Engineer	Supervised by:  Kris Mai / Technique Director	Approved by:  Dm Gu / Manager



EMC - TEST REPORT

Test Report No.....: LCSB08054051E001

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Telephone.....: /
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The test report merely corresponds to the test sample.

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ENVIRONMENTAL CONDITIONS

The climatic conditions during the test are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. the climatic conditions during the test were in the following Limits:

Ambient temperature	15°C - 35°C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa - 106 kPa

Climate values will be recorded and recorded separately if specifically required in the base standard or application product/product series standard.

POSSIBLE TEST CASE VERDICTS

Test cases does not apply to test object	N/A
Test object does meet requirement	P(Pass) / PASS
Test object does not meet requirement	F(Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒ Indicate that the conditions, standards or equipment listed is applicable to this report / test / EUT.
☐ Indicate that the conditions, standards or equipment listed is not applicable to this report / test / EUT.

REVISION HISTORY

Revision	Issue Date	Revision Content	Revised by
000	September 06, 2024	Initial Issue	Amy Liu
001	December 18, 2025	Revision Issue	Amy Liu

Remark:

001: The applicant declares that the model in this report has been modified and the original test report is invalid. The Original report model MC5-E0 RU is now MC5-E0

Note: The original test report "LCSB08054051E" dated September 06, 2024. The revised test report is based on the original test data of the original test report. After data review and verification, it is considered that no additional test is necessary.



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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF THE ITEM(S)

Equipment Under Test	Controller
Test Model/Type	MC5-E0
Additional Models/Type	-
Description of Model difference	-
Rating	DC 36V, Max.250W
Highest internal frequency (Fx)	≤ 108 MHz



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1.2. OPERATING MODE(S) USED OF TESTS

During the tests, the following operating mode(s) has(have) been used.

Operating Mode	Operating Mode description	Used for testing	
		Emission	Immunity
1	Normal operation	☒	☒
2	Bluetooth	☐	☐
3	HDMI	☐	☐
4	Full load	☐	☐

1.3. SUPPORT / AUXILIARY EQUIPMENT FOR THE EUT

EUT has been tested using the following auxiliary equipment :

Auxeq	Model/Type	Manufacturer	Supplied by
--			

1.4. DESCRIPTION OF TEST FACILITY

Test Location 1	Shenzhen Southern LCS Compliance Testing Laboratory Ltd. 101-201, No.39 Building,Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China. CNAS Registration Number is L10160.
Test Location 2	Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong, China. NVLAP Accreditation Code is 600167-0. CNAS Registration Number is L4595.
Date of receipt of test item	August 08, 2024
Date(s) of performance of test	August 08, 2024 - September 06, 2024

Note: Radio-Frequency Electromagnetic Field (RS) Test Subcontract to Shenzhen LCS Compliance Testing Laboratory Ltd for Testing.



2. STATEMENT OF THE MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. the reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. the measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. the manufacturer has the sole responsibility of continued compliance of the device.

Measurement	Uncertainty (U_{lab})
Conducted disturbance (150kHz - 30MHz)	± 2.80 dB
Radiated disturbance (30MHz - 200MHz)	± 4.66 dB
Radiated disturbance (200MHz - 1GHz)	± 4.64 dB

Supplementary information:

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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3. MEASURING DEVICES AND TEST EQUIPMENT

CONDUCTED DISTURBANCE						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	No. 1 shielded Room	CHENGYU	843	/	2023-04-26	2026-04-25
2	EMI Test Receiver	R&S	ESCI	101142	2024-04-24	2025-04-23
3	10dB Attenuator	SCHWARZBECK	VTSD9561-F	9561-F159	2024-04-24	2025-04-23
4	Artificial Mains Network	SCHWARZBECK	NSLK 8127	8127716	2024-04-24	2025-04-23
5	Artificial Mains Network	SCHWARZBECK	NSLK 8163	00043	2024-04-24	2025-04-23
6	Impedance Stabilization Network	SCHWARZBECK	NTFM 8158	NTFM8158#120	2024-04-24	2025-04-23
7	Current Probe	R&S	EZ-17	101921	2024-03-18	2025-03-17
8	EMI Test Software	EZ	EZ_EMC	N/A	/	/

RADIATED DISTURBANCE						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024-04-28	2027-04-27
2	EMI Test Receiver	R&S	ESCI3	101010	2024-04-24	2025-04-23
3	Log-periodic Antenna	SCHWARZBECK	VULB9163	5094	2024-04-29	2025-04-28
4	EMI Test Software	EZ	EZ_EMC	N/A	/	/
5	Controller system	SKET	SKC1000	N/A	/	/

ELECTROSTATIC DISCHARGE						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	ESD Simulator	TESEQ	NSG 437	1615	2024-02-24	2025-02-23

ELECTRICAL FAST TRANSIENT / BURST						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Electrical Fast Transient Generator	HTEC	HEFT51	162201	2024-04-24	2025-04-23
2	EFT Coupling Clamp	HTEC	H3C	163701	2024-04-24	2025-04-23

INJECTED CURRENTS (RADIO-FREQUENCY COMMON MODE)						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	No. 2 shielded room	CHENGYU	743	/	2023-04-26	2026-04-25
2	Conducted Susceptibility Generator	HTEC	CDG6000	126A140012016	2024-04-24	2025-04-23
3	CDN	HTEC	CDN-M2+M3	A22/0382/2016	2024-04-24	2025-04-23
4	6dB attenuator	HTEC	ATT6	HA1601	2024-04-24	2025-04-23
5	Electromagnetic clamp	LUTHI	EM101	35535	2024-04-24	2025-04-23

POWER FREQUENCY MAGNETIC FIELD						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Frequency Mag-Field Generator System	HTEC	HPFMF100	100-2400	2024-04-24	2025-04-23



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RADIO-FREQUENCY ELECTROMAGNETIC FIELDS						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXG Vector Signal Generator	Agilent	E4438C	MY42081396 (6G)	2024-05-06	2025-05-05
2	RF POWER AMPLIFIER	SKET	HAP_0306G-50 W	/	2024-05-06	2025-05-05
3	RF POWER AMPLIFIER	OPHIR	5225R	1052	2024-05-06	2025-05-05
4	RF POWER AMPLIFIER	OPHIR	5273F	1019	2024-05-06	2025-05-05
5	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	NCR	NCR
6	Stacked Mikrowellen Log.-Per Antenna	SCHWARZBECK	STLP 9149	9149-484	NCR	NCR



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4. VERDICT SUMMARY SECTION

This chapter present an overview of the standards and results. Refer the next chapter for details of measured test results and applied test levels.

4.1. STANDARD(S)

EN IEC 61000-6-3:2021 - Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments.

EN IEC 61000-6-1:2019 - Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential,commercial and light-industrial environments.



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4.2. OVERVIEW OF RESULTS

EMISSION TESTS - EN IEC 61000-6-3		
Requirement - Test case	Limit	Verdict
Conducted Disturbance - AC mains ports / DC power port	Table 4, Table 5	PASS
Conducted Disturbance - Wired ports	Table 6	N/A
Assessment of the enclosure port	---	---
Radiated Disturbance in the frequency range 30 MHz to 1 GHz	Table 3	PASS
Radiated Disturbance in the frequency range Above 1 GHz	Table 3	N/A
IMMUNITY TESTS - EN IEC 61000-6-1		
Requirement - Test case	Basic Standard(s)	Verdict
Electrostatic Discharge	IEC/EN 61000-4-2	PASS
Radio-Frequency Electromagnetic Fields	IEC/EN 61000-4-3	PASS
Electrical Fast Transient / Burst	IEC/EN 61000-4-4	PASS
Surge ²	IEC/EN 61000-4-5	N/A
Radio-Frequency Common Mode	IEC/EN 61000-4-6	PASS
Power Frequency Magnetic Field ¹	IEC/EN 61000-4-8	N/A
Voltage Dips and Short Interruptions	IEC/EN 61000-4-11	N/A

Supplementary information :

- 1) Only need to be applied to equipment containing components susceptible to magnetic fields.
- 2) Applicable only to ports interfacing with long distance lines and applicable to ports intended for connection to a local AC or DC power network. According to the manufacturer's functional specification, the ports interfacing with cables whose total length may not exceed 30m, therefore this test item is not applicable.



5. EMISSION TESTS

5.1. CONDUCTED DISTURBANCE

Standard	EN IEC 61000-6-3:2021
Basic Standard(s)	CISPR 16-2-1

Disturbance voltage limits at low voltage AC mains port

Frequency range [MHz]	Limit: Quasi-peak [dB(μV)]	Limit: Average[dB(μV)]	IF BW
0,15 - 0,5	66 - 56	56 - 46	9 kHz
0,5 - 5,0	56	46	
5,0 - 30	60	50	
1) At the transition frequency, the lower limit applies.			

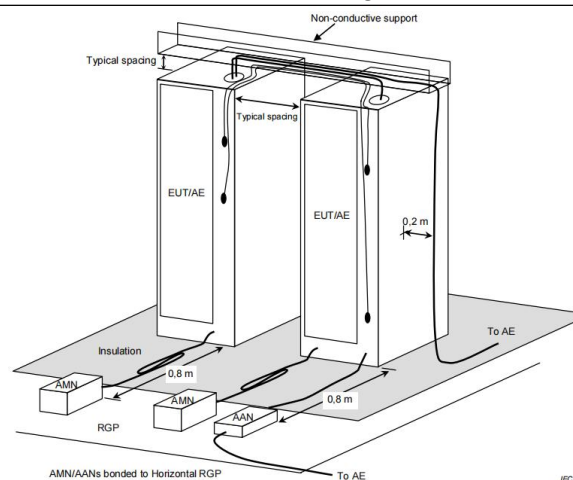
Disturbance voltage limits at DC power port

Frequency range [MHz]	Limit: Quasi-peak [dB(μV)]	Limit: Average[dB(μV)]	IF BW
0,15 - 0,5	79	66	9 kHz
0,5 - 30	73	60	
1) At the transition frequency, the lower limit applies.			

Disturbance voltage / Current limits at other wired ports

Frequency range [MHz]	Coupling device	Limit: Quasi-peak [dB(μV/A)]	Limit: Average [dB(μV/A)]	IF BW
0,15 - 0,5	ANN	84 - 74	74 - 64	9 kHz
0,5 - 30		74	64	
0,15 - 0,5	CVP	84 - 74	74 - 64	
0,5 - 30		74	64	
0,15 - 0,5	Current Probe	40 - 30	30 - 20	
0,5 - 30		30	20	
1) applicable to intended to connect to cables longer than 3 m.				





5.2. RADIATED DISTURBANCE

Standard	EN IEC 61000-6-3:2021
Basic Standard(s)	CISPR 16-2-3
Test method	Semi Anechoic Chamber (SAC)

SAC Radiated disturbance limit in the frequency range 30 MHz - 1000 MHz

Frequency range [MHz]	Limit: Quasi-peak [dB(μV/m)]		IF BW
	3 m distance	10 m distance	
30 - 230	40	30	120 KHz
230 - 1000	47	37	
1) At the transition frequency, the lower limit applies.			

Radiated disturbance limit in the frequency range 1 GHz - 6 GHz

Frequency range [MHz]	Limit (3 m distance)		IF BW
	Peak [dB(μV/m)]	Average [dB(μV/m)]	
1000 - 3000	70	50	1MHz
3000 - 6000	74	54	

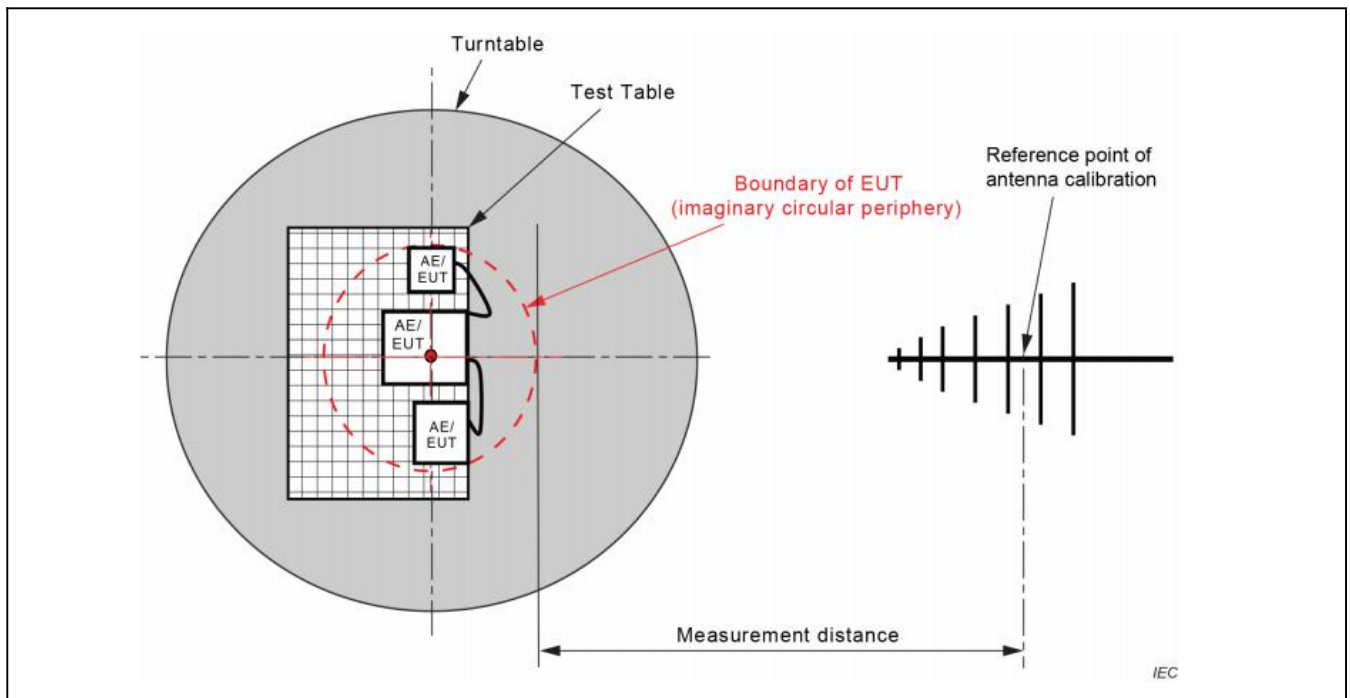
Required highest frequency for radiated measurement

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_x \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_x \leq 1 \text{ GHz}$	5 GHz
$F_x > 1 \text{ GHz}$	$5 \times F_x$ up to a maximum of 6 GHz

- 1) F_x is highest fundamental frequency generated or used within the EUT or highest frequency at which it operates.



Test configuration



Test Procedure Description

The radiated disturbance test was conducted in a 3m Semi Anechoic Chamber and conforming to CISPR 16-2-3. the EUT is placed on a turntable, which is 0.8 meter high above the ground. the turntable can rotate 360 degrees to determine the position of the maximum emission level. the EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. the antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Log-periodic antenna or horn antenna is used as a receiving antenna. both horizontal and vertical polarization of the antenna is set on test.

Test Results refer to Annex A.2



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6. IMMUNITY TESTS

6.1. PERFORMANCE CRITERIA

Standard	EN IEC 61000-6-1:2019
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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.

Examples of ports		Tests and performance criteria							
		ESD	RS	PFMF	EFT	CS	Surge	Dips	Interruption
☒	Enclosure port	B	A	A	---	---	---	---	---
☐	Signal / control ports ¹	---	---	---	B	A	B	---	---
☒	DC Input / Output power ports ¹	---	---	---	B	A	B	---	---
☐	AC Input / Output power ports	---	---	---	B	A	B	B&C	C

Supplementary information:

1) Applicable only to ports which, according to the manufacturer's specification, support cable lengths greater than 3 m.



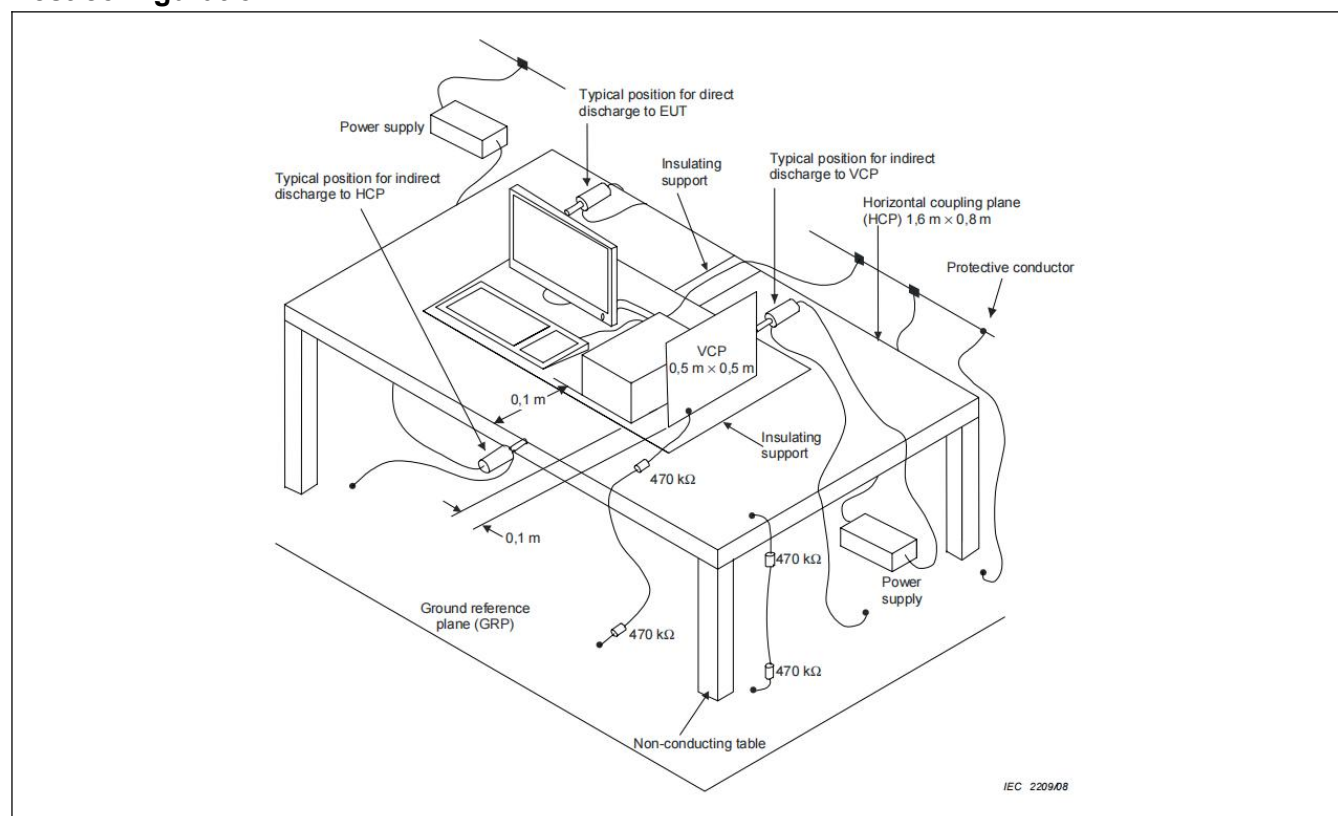
6.2. ELECTROSTATIC DISCHARGE

Electrostatic discharge (ESD) is the result of accumulated static electricity from a person or object, for example, walking on a synthetic carpet. ESD can indirectly affect the operation of equipment or damage its electronic components through direct discharge or coupling. both effects were simulated during the test. contact discharge is the preferred test method. twenty discharges (10 with positive and 10 with negative polarity) shall be applied on each accessible metallic part of the enclosure (terminals are excluded). air discharges shall be used where contact discharges cannot be applied. discharges shall be applied on the horizontal or vertical coupling planes.taken into consideration when selecting test points, paying particular attention to keyboards, dialling pads, power switches, mice, drive slots, card slots, the areas around communication ports, etc.

Requirements

Standard	EN IEC 61000-6-1:2019							
Basic standard	EN 61000-4-2							
Port under test	Enclosure							
Contact discharge	☒	± 2 kV	☒	± 4 kV	☐	±8 kV	☐	kV
Air discharge	☒	± 2 kV	☒	± 4 kV	☒	±8 kV	☐	kV
Number of discharges	≥ 10 per polarity with ≥ 1 sec interval							

Test configuration



Test Results refer to Annex A.3



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6.3. RADIO-FREQUENCY ELECTROMAGNETIC FIELDS

During the test it is verified if the EUT has sufficient immunity against radiated electromagnetic fields.

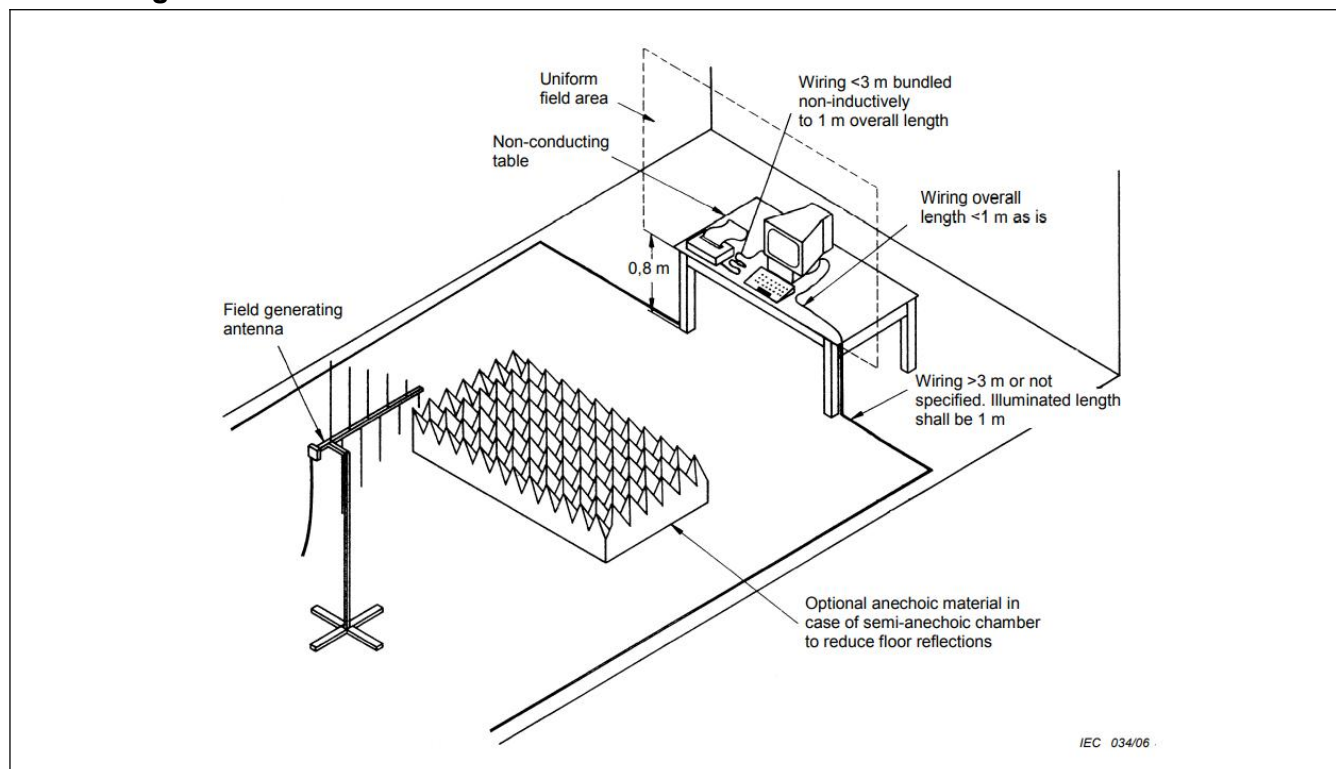
The test was carried out in a half-wave anechoic chamber with absorbent material attached to a reflective ground plate. Before the test, the test field strength needs to be calibrated. during the calibration, the corresponding relationship between the target field strength and the forward power applied to the transmitting antenna is established. during the test, except for EUT, the indoor layout is consistent with the calibration.

The EUT and its simulators are placed on a turn table which is 0,8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. both horizontal and vertical polarization of the antenna are set on test. each of the four sides of EUT must be faced this transmitting antenna and measured individually. in order to judge the EUT performance, a CCD camera is used to monitor EUT screen.

Requirements

Standard	EN IEC 61000-6-1:2019			
Basic standard	EN 61000-4-3			
Port under test	Enclosure			
Frequency range	Test level	Modulation	Dwell time	Step size
80 - 1000 MHz	3 V/m	1 kHz, 80 % AM	≥ 0,5 s	≤ 1%
1400 - 6000 MHz	3 V/m	1 kHz, 80 % AM	≥ 0,5 s	≤ 1%

Test configuration



Test Results refer to Annex A.3



6.4. ELECTRICAL FAST TRANSIENT / BURST

The EFT immunity test simulates the disturbances by caused of very short transient bursts.

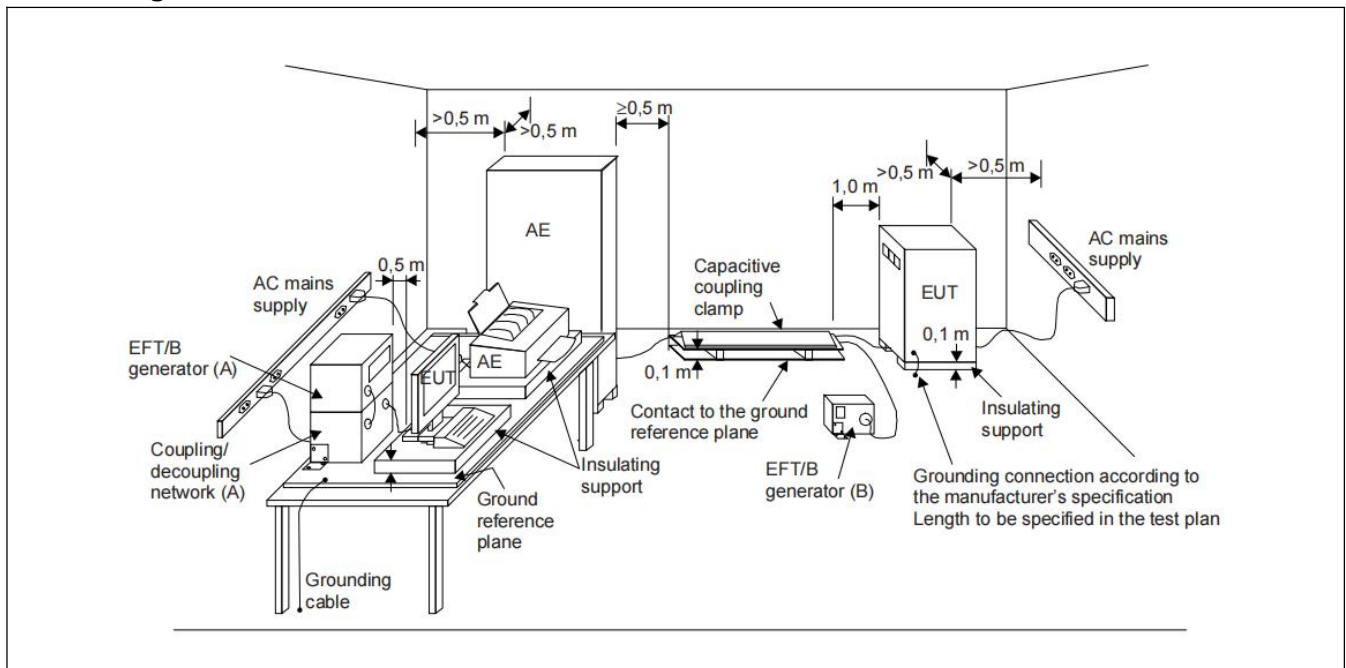
The EUT is put on the Insulating support which is 0.1 meter high above the ground reference plane. the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5 m. both polarities of the test voltage should be applied during test, fast transients are carried out with a minimum duration of 2 min with a positive polarity and a minimum of 2 min with a negative polarity.

Requirements

Standard		EN IEC 61000-6-1:2019		
Basic standard		EN 61000-4-4		
Pulse characteristics		5/50ns		
Port under test		Test level	Repetition frequency	Duration
☐	AC Input / Output power	$\pm 1000 \text{ V}$	5 kHz or 100 kHz	2 min / polarity
☒	DC Input / Output power ¹	$\pm 1000 \text{ V}$	5 kHz or 100 kHz	2 min / polarity
☐	Signal / control ¹	$\pm 500 \text{ V}$	5 kHz or 100 kHz	2 min / polarity

1) Only applicable to ports interfacing with cables whose whose total length may exceed 3 m.

Test configuration



Test Results refer to Annex A.3



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6.5. RADIO-FREQUENCY COMMON MODE

During the test the immunity of the EUT for conducted electromagnetic fields is checked .

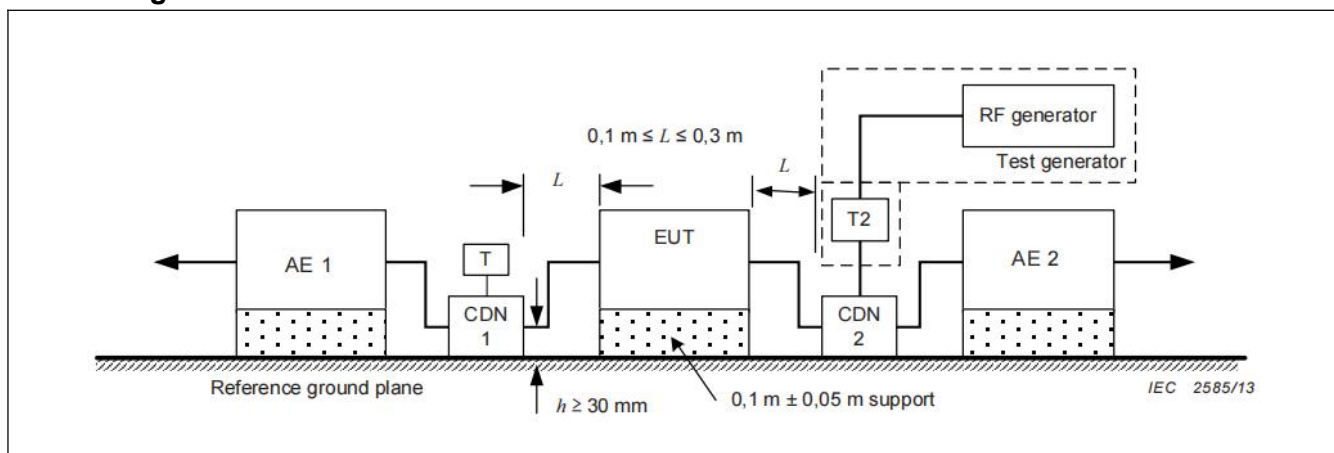
The equipment to be tested is placed on an insulating support of $0,1\text{ m} \pm 0,05\text{ m}$ height above a reference ground plane. a non conductive roller/caster in the range of $0,1\text{ m} \pm 0,05\text{ m}$ above the reference ground plane can be used as an alternative to an insulating support. all cables exiting the EUT shall be supported at a height of at least 30 mm above the reference ground plane. The coupling and decoupling devices shall be placed on the reference ground plane, making direct contact with it at a distance of 0,1 m to 0,3 m from the EUT.

Requirements

Standard		EN IEC 61000-6-1:2019			
Basic standard		EN 61000-4-6			
Frequency range		0,15 - 80MHz			
Port under test		Test level	Modulation	Dwell time	Step size
☐	AC Input / Output power	3 V	1 kHz, 80 % AM	$\geq 0,5\text{ s}$	$\leq 1\%$
☒	DC Input / Output power ¹	3 V	1 kHz, 80 % AM	$\geq 0,5\text{ s}$	$\leq 1\%$
☐	Signal / control ¹	3 V	1 kHz, 80 % AM	$\geq 0,5\text{ s}$	$\leq 1\%$

1) Only applicable to ports interfacing with cables whose total length may exceed 3 m.

Test configuration



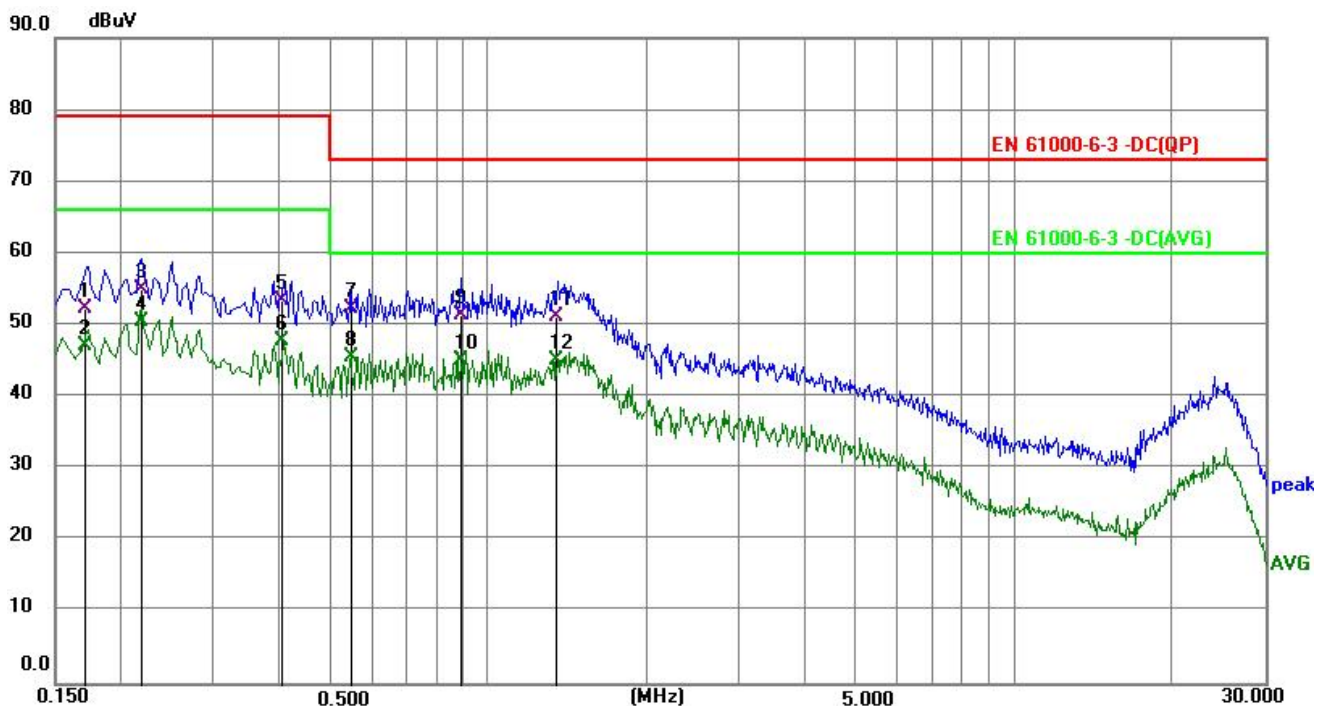
Test Results refer to Annex A.3



ANNEX A - TEST RESULTS

A.1. CONDUCTED DISTURBANCE TEST RESULTS

Environmental Conditions	26.1℃, 56% RH
Model	MC5-E0
Operating mode	Mode 1 (worst case)
Test voltage	DC 36V
Test engineer	Peng Dong
Pol	Line



No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		0.1703	41.24	10.96	52.20	79.00	-26.80	QP	
2		0.1703	36.24	10.96	47.20	66.00	-18.80	AVG	
3		0.2188	44.04	11.00	55.04	79.00	-23.96	QP	
4		0.2188	39.62	11.00	50.62	66.00	-15.38	AVG	
5		0.4056	42.58	10.93	53.51	79.00	-25.49	QP	
6		0.4056	36.90	10.93	47.83	66.00	-18.17	AVG	
7		0.5463	41.46	10.88	52.34	73.00	-20.66	QP	
8	*	0.5463	34.64	10.88	45.52	60.00	-14.48	AVG	
9		0.8899	40.65	10.86	51.51	73.00	-21.49	QP	
10		0.8899	34.23	10.86	45.09	60.00	-14.91	AVG	
11		1.3554	40.31	10.90	51.21	73.00	-21.79	QP	
12		1.3554	34.22	10.90	45.12	60.00	-14.88	AVG	



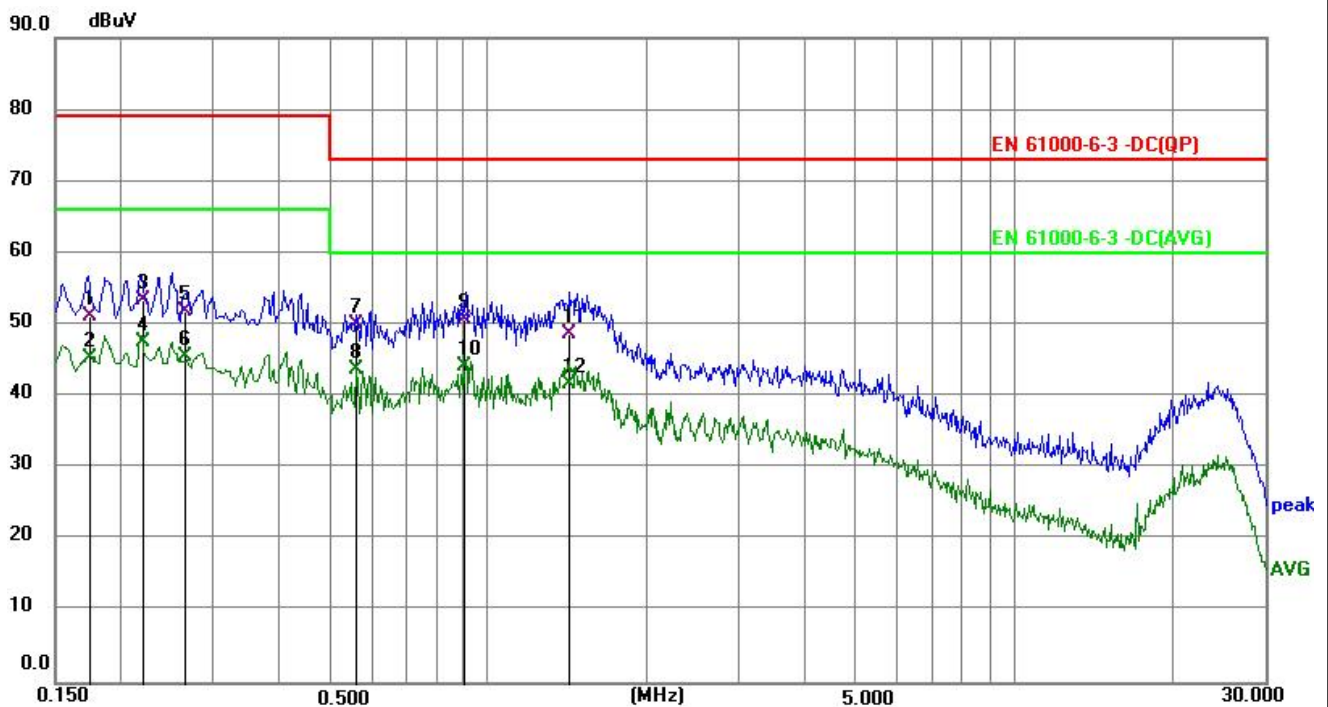
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Environmental Conditions	26.1℃, 56% RH
Model	MC5-E0
Operating mode	Mode 1 (worst case)
Test voltage	DC 36V
Test engineer	Peng Dong
Pol	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1747	40.32	10.87	51.19	79.00	-27.81	QP	
2		0.1747	34.50	10.87	45.37	66.00	-20.63	AVG	
3		0.2197	42.42	10.91	53.33	79.00	-25.67	QP	
4		0.2197	36.69	10.91	47.60	66.00	-18.40	AVG	
5		0.2648	40.99	10.90	51.89	79.00	-27.11	QP	
6		0.2648	34.68	10.90	45.58	66.00	-20.42	AVG	
7		0.5611	39.29	10.86	50.15	73.00	-22.85	QP	
8		0.5611	32.83	10.86	43.69	60.00	-16.31	AVG	
9		0.9040	39.76	11.01	50.77	73.00	-22.23	QP	
10	*	0.9040	33.09	11.01	44.10	60.00	-15.90	AVG	
11		1.4261	37.76	11.03	48.79	73.00	-24.21	QP	
12		1.4261	30.77	11.03	41.80	60.00	-18.20	AVG	



A.2. RADIATED DISTURBANCE TEST RESULTS

Environmental Conditions	25.5℃, 54% RH
Model	MC5-E0
Operating mode	Mode 1 (worst case)
Test voltage	DC 36V
Test engineer	Peng Dong
Pol	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		34.2160	11.07	13.04	24.11	40.00	-15.89	QP		
2		40.0118	10.60	13.72	24.32	40.00	-15.68	QP		
3	*	56.9163	19.59	14.66	34.25	40.00	-5.75	QP		
4		71.9896	12.03	10.84	22.87	40.00	-17.13	QP		
5		87.9943	11.03	11.59	22.62	40.00	-17.38	QP		
6		330.0502	8.09	15.47	23.56	47.00	-23.44	QP		



Environmental Conditions	25.5°C, 54% RH
Model	MC5-E0
Operating mode	Mode 1 (worst case)
Test voltage	DC 36V
Test engineer	Peng Dong
Pol	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1	*	57.5182	11.42	13.37	24.79	40.00	-15.21	QP		
2		103.9877	9.27	11.89	21.16	40.00	-18.84	QP		
3		167.9714	7.56	10.53	18.09	40.00	-21.91	QP		
4		300.6307	11.08	14.39	25.47	47.00	-21.53	QP		
5		330.1949	9.82	15.43	25.25	47.00	-21.75	QP		
6		389.1843	6.65	16.39	23.04	47.00	-23.96	QP		



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A.3. IMMUNITY TEST RESULTS

ELECTROSTATIC DISCHARGE TEST RESULTS					
Test model	MC5-E0		Temperature	23.5℃	
Test mode	Mode 1		Humidity	52%	
Input voltage	DC 36V		Pressure	1008mbar	
Test engineer	Peng Dong				
Discharge Mode	Test Points	Test Voltage (kV) & polarity	Number of discharges/polarity	Discharge interval (s)	Performance Criteria
Contact Discharge	Conductive surfaces	± 4	10	1	B
Air Discharge	Insulating surfaces	± 2&4&8	10	1	B
VCP	-	± 4	10	1	B
HCP	-	± 4	10	1	B
Note :					

RADIO-FREQUENCY ELECTROMAGNETIC FIELD TEST RESULTS				
Test model	MC5-E0		Temperature	24.5℃
Test mode	Mode 1		Humidity	53%
Input voltage	DC 36V		Pressure	1008mbar
Test engineer	XING MO			
Angle of EUT	Antenna polarization	Frequency Range	Test Level	Performance Criteria
0°	Vertical Horizontal	80 - 1000 MHz, 1400 - 6000MHz	3 V/m	A
90°	Vertical Horizontal	80 - 1000 MHz, 1400 - 6000MHz	3 V/m	A
180°	Vertical Horizontal	80 - 1000 MHz, 1400 - 6000MHz	3 V/m	A
270°	Vertical Horizontal	80 - 1000 MHz, 1400 - 6000MHz	3 V/m	A
Note :				
(1) Modulation:1kHz, 80% AM.				



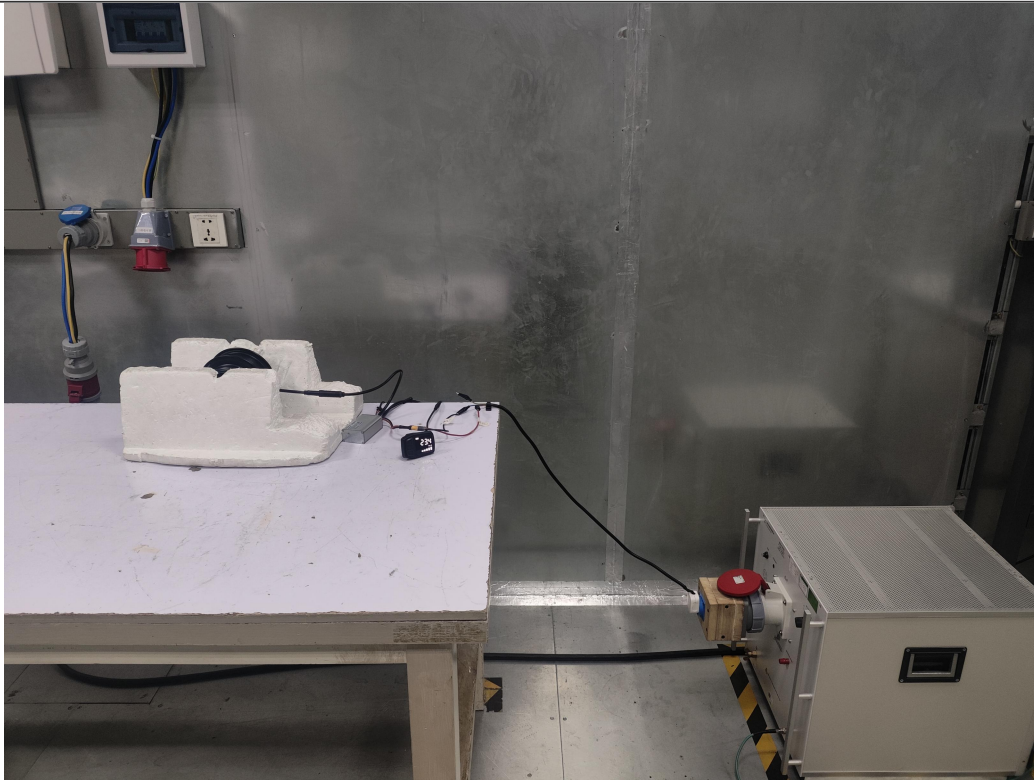
ELECTRICAL FAST TRANSIENT/BURST TEST RESULTS				
Test model	MC5-E0		Temperature	24.0℃
Test mode	Mode 1		Humidity	54%
Input voltage	DC 36V		Pressure	1008mbar
Test engineer	Peng Dong			
Port under test	Test Level&polarity	Repetition Frequency	Test duration /polarity	Performance Criteria
AC Input power				
DC Input power	± 1 kV	5 kHz	2min	B
Signal / control				
Note :				

RADIO-FREQUENCY COMMON MODE TEST RESULTS				
Test model	MC5-E0		Temperature	24.0℃
Test mode	Mode 1		Humidity	54%
Input voltage	DC 36V		Pressure	1008mbar
Test engineer	Peng Dong			
Port under test	Test Level	Coupling method	Dwell time	Performance Criteria
AC Input power				
DC Input power	3 V	CDN	1 seconds	A
Signal / control				
Note: (1) Frequency range:0.15MHz - 80MHz.				

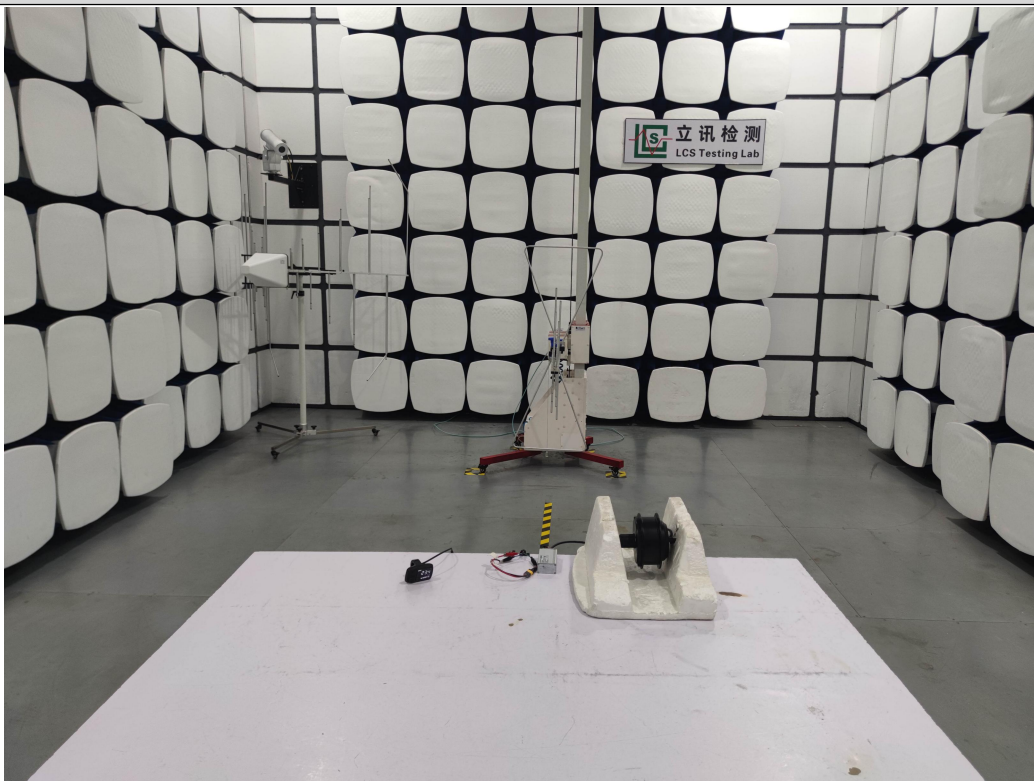


ANNEX B - TEST PHOTOS

B.1. Conducted Disturbance



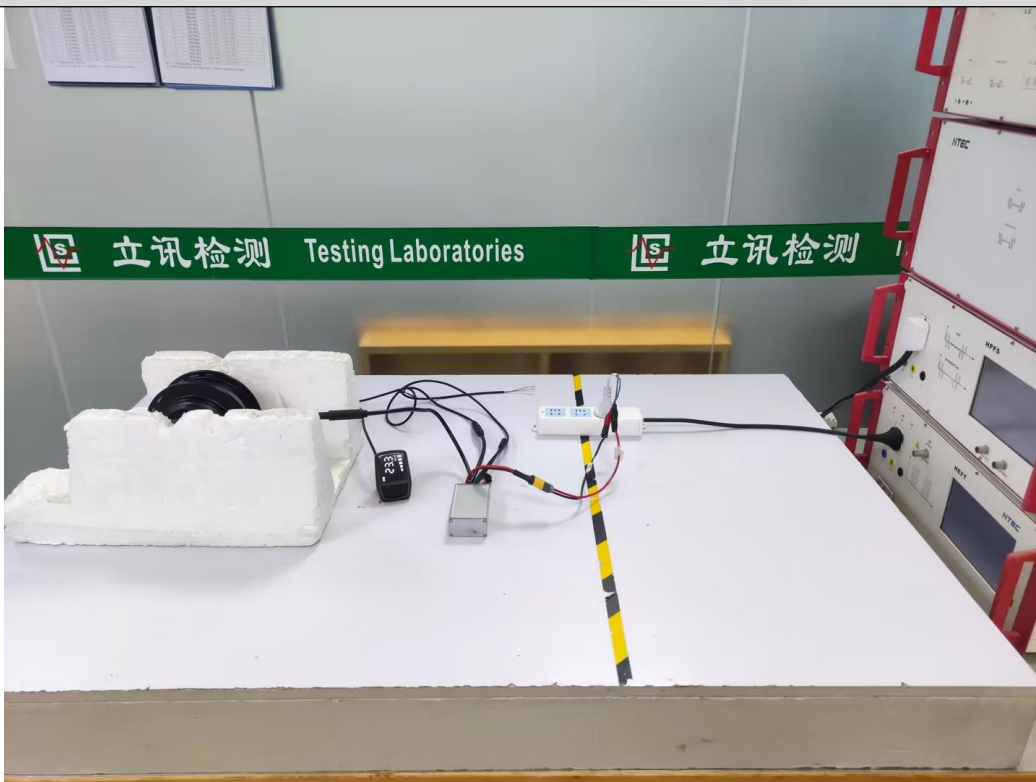
B.2. Radiated Disturbance



B.3. Electrostatic Discharge



B.4. Electrical Fast Transient / Burst



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B.5. Radio-Frequency Common Mode



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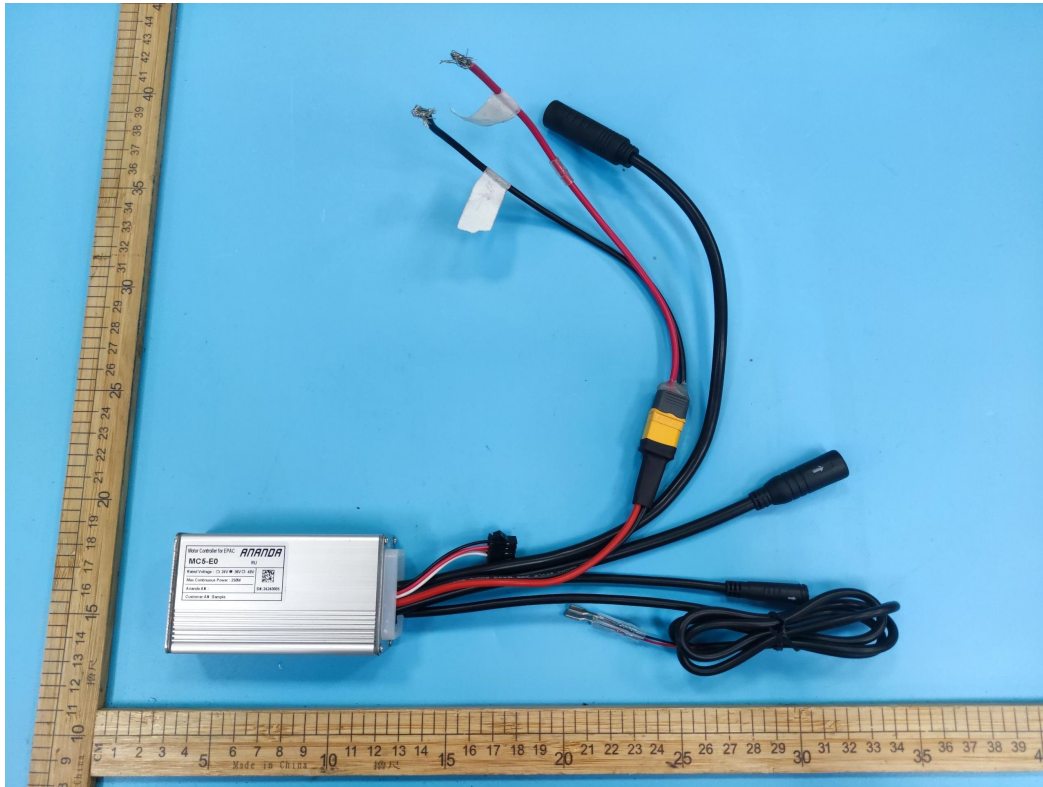
ANNEX C - EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Photo.1



Photo.2



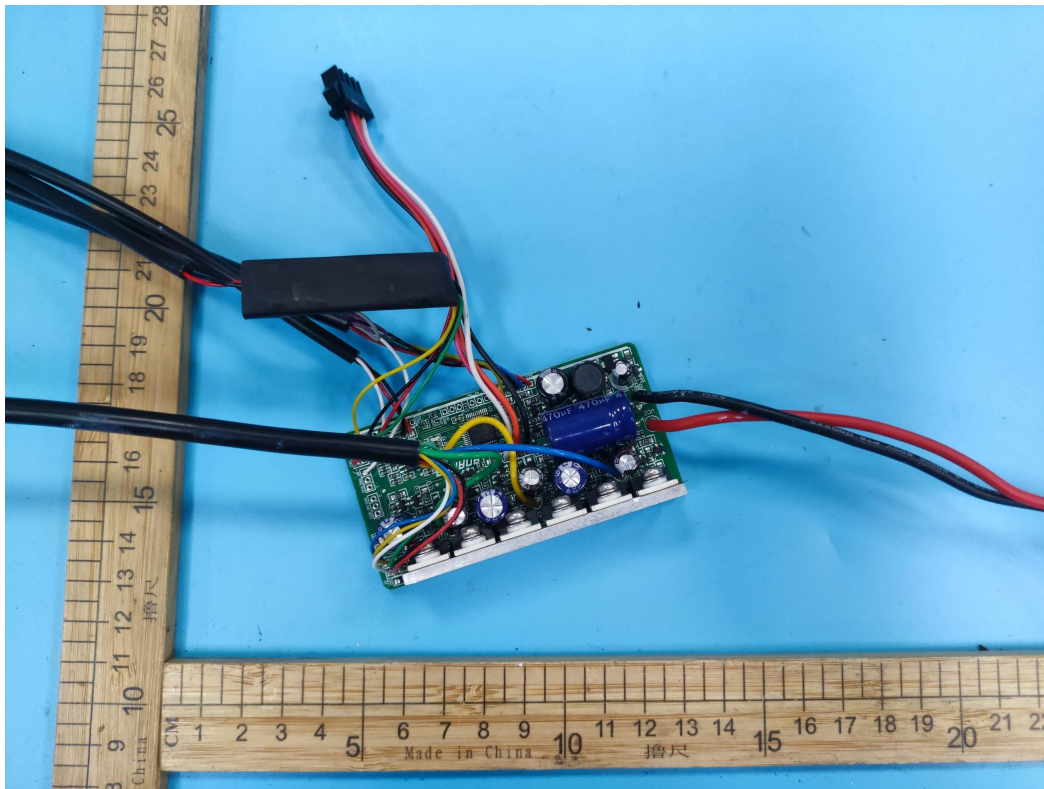


Photo.3

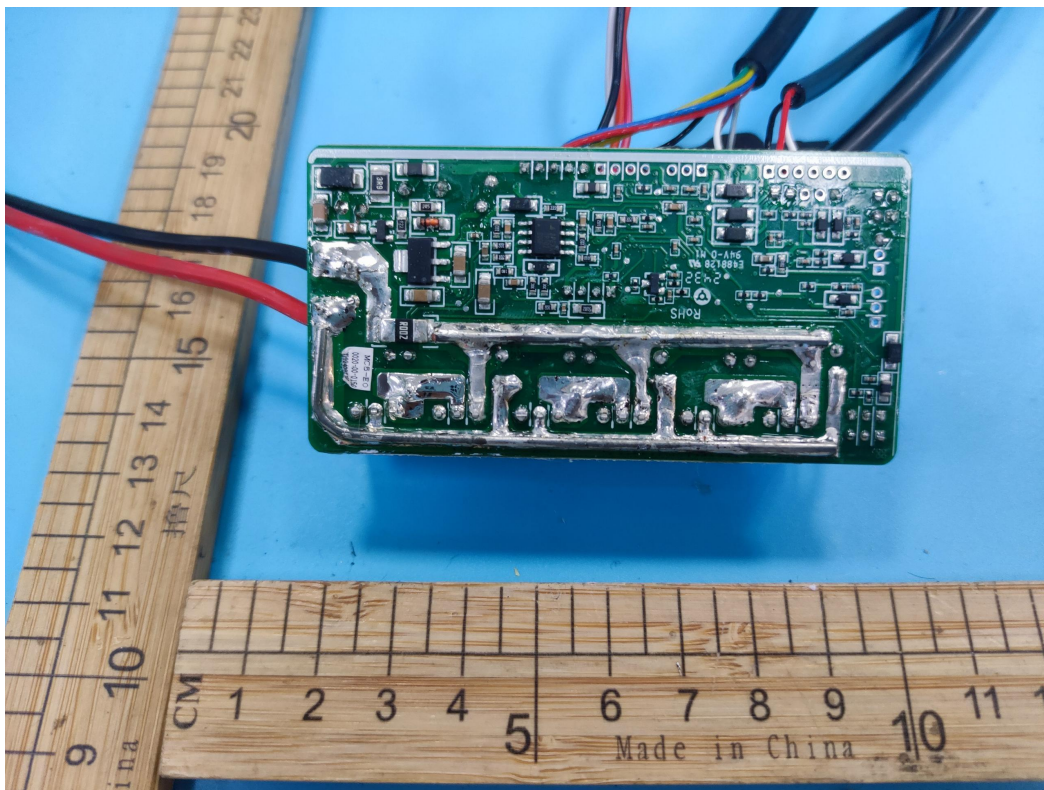


Photo.4

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