



# TEST REPORT

Report No.: SHE25080043-01BE

Date: 2025-09-04

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**Applicant** : Beijing Hipnuc Electronic Technology Co.,Ltd.  
**Address of Applicant** : 121, 1st Floor, Block B, No. 23 Chaoqian Road, Science and Technology Park, Changping District, Beijing.  
**Product Name** : IMU/VRU/AHRS/INS Module  
**Brand Name** : /  
**Model Name** : HI05 Series  
**Sample Acquisition Method** : Sent by Client  
**Sample No.** : SHE25080043-01#01  
**Standards** : EN IEC 61000-6-2:2019  
: EN IEC 61000-6-4:2019  
**Date of Receipt** : 2025-08-18  
**Date of Test** : 2025-08-26~2025-08-27  
**Date of Issue** : 2025-09-04

**Remark:**

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:

Jack Song

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Reviewed by:

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Echo Mu

(Authorized signatory: Echo Mu)





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## 1 General Information

### 1.1 Testing Laboratory Information

|              |   |
|--------------|---|
| Company Name | ICAS Testing Technology Service (Shanghai) Co., Ltd.    |
| Address      | No.1298, Pingan Road, Minhang District, Shanghai, China |
| Telephone    | 0086 21-51682999  |
| Fax          | 0086 21-54711112  |
| Homepage     | www.icasiso.com   |

### 1.2 Applicant Information

|                        |  |
|------------------------|--|
| Applicant Company Name | Beijing Hipnuc Electronic Technology Co.,Ltd.  |
| Address                | 121, 1st Floor, Block B, No. 23 Chaoqian Road, Science and Technology Park, Changping District, Beijing. |
| Contact Person         | Mr.Liu   |
| Telephone              | 18612030435  |
| Email                  | guobing.liu@hipnuc.com   |
| Manufacturer           | Beijing Hipnuc Electronic Technology Co.,Ltd.  |
| Manufacturer Address   | 121, 1st Floor, Block B, No. 23 Chaoqian Road, Science and Technology Park, Changping District, Beijing. |

### 1.3 EUT Description

|   |                         |
|---|-------------------------|
| Product Name                              | IMU/VRU/AHRS/INS Module |
| Under Test Model Name                     | HI05 Series             |
| Series Model Name                         | /                       |
| Description of Model name differentiation | /                       |
| Hardware Version                          | /                       |
| Software Version                          | /                       |
| Ratings                                   | DC5V is powered by USB  |
| Highest Operating Frequency               | 200MHz                  |



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## 2 Summary of Test Result

### 2.1 Test Standards

| No. | Identity              | Document Title  |
|-----|-----------------------|---|
| 1   | EN IEC 61000-6-2:2019 | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments          |
| 2   | EN IEC 61000-6-4:2019 | Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments |

### 2.2 Reference Standards

| No. | Identity                               | Document Title   |
|-----|--|--|
| 1   | CISPR 11:2015+A1:2016                  | Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement                               |
| 2   | CISPR 14-1:2016                        | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission                               |
| 3   | CISPR 32:2015                          | Electromagnetic compatibility of multimedia equipment – Emission requirements  |
| 4   | IEC 61000-4-2:2008                     | Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                   |
| 5   | IEC 61000-4-3:2006+A1:2007<br>+A2:2010 | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test          |
| 6   | IEC 61000-4-4:2012                     | Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                           |
| 7   | IEC 61000-4-5:2014                     | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test   |
| 8   | IEC 61000-4-6:2013                     | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields   |
| 9   | IEC 61000-4-8:2009                     | Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test                            |
| 10  | IEC 61000-4-11:2004                    | Electromagnetic compatibility (EMC) - Part4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests |

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



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## 2.3 Test Result

### EN IEC 61000-6-4:2019

| Rule | Description        | Results   |
|------|--------------------|-----------|
| § 9  | Conducted Emission | N/A Note1 |
| § 9  | Radiated Emission  | Pass      |

### EN IEC 61000-6-2:2019

| Rule | Description                                      | Results   |
|------|--|-----------|
| § 9  | Electrostatic Discharges                         | Pass      |
| § 9  | Continuous RF Electromagnetic Field Disturbances | Pass      |
| § 9  | Electrical Fast Transients/Burst                 | N/A Note1 |
| § 9  | Surges   | N/A Note1 |
| § 9  | Continuous Induced RF Disturbances               | N/A Note1 |
| § 9  | Power Frequency Magnetic Field                   | Pass      |
| § 9  | Voltage Dips and Interruptions                   | N/A Note1 |

Note: N/A=not applicable.

Note 1: The EUT is powered by USB, so the above test item is not applicable.

## 2.4 Test Uncertainty

| Measurement                    | Uncertainty |
|--------------------------------|-------------|
| Radiated emission (30MHz-1GHz) | 5.00 dB     |
| Radiated emission (1GHz-18GHz) | 5.46 dB     |

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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## 3 General Test Configurations

### 3.1 Test Environments

During the measurement, the environmental conditions complied with the range listed as below.

|                           |                 |
|---------------------------|-----------------|
| Ambient Temperature       | 15°C to 35°C    |
| Ambient Relative Humidity | 30% to 60%      |
| Ambient Pressure          | 86kPa to 106kPa |

### 3.2 Test Equipment List

| Equipment No.   | Test Equipment           | Manufacturer | Model      | Serial No./Version | Cal. Due Date |
|---|--------------------------|--------------|------------|--------------------|---------------|
| <b>Radiated Emission</b>                                |                          |              |            |                    |               |
| E-008-01EMC   | Broadband Antenna        | SCHWARZBECK  | VULB9163   | 9163-1037          | 2027-03-23    |
| E-006-01EMC   | EMI Test Receiver        | R&S          | ESR 7      | 101911             | 2026-06-08    |
| E-060-01EMC   | 3m Anechoic Chamber      | CHANGNING    | 9*6*6      | N/A                | 2028-06-09    |
| /   | Test Software<br>BL410-E | BL           | /          | V24.C24            | /             |
| <b>Electrostatic Discharge</b>                          |                          |              |            |                    |               |
| E-005-01EMC   | ESD Tester               | SANKI        | SKS-0230GV | 020616003J321      | 2026-06-16    |
| E-001-01RF  | Shielded Room            | YIHENG       | 8*4*3      | N/A                | 2028-06-09    |
| <b>Continuous RF Electromagnetic Field Disturbances</b> |                          |              |            |                    |               |
| E-019-01EMC   | Signal Source            | R&S          | SMB 100A   | 114400             | 2026-06-08    |
| E-022-01EMC   | Power Meter              | R&S          | NRP2       | 106036             | 2026-06-08    |
| E-023-02EMC   | Power Sensor             | R&S          | NRP8S      | 103593             | 2026-06-08    |
| E-026-01EMC   | Amp                      | LI           | 5225F      | 1053               | 2026-06-08    |
| E-027-01EMC   | Amp                      | LI           | 5293F      | 1059               | 2026-06-08    |
| E-008-01EMC   | Broadband Antenna        | SCHWARZBECK  | VULB9163   | 9163-1037          | 2027-03-23    |
| E-009-01EMC   | Horn Antenna             | SCHWARZBECK  | BBHA9120D  | 9120D-1775         | 2027-06-21    |
| E-030-01EMC   | Field Probe              | NARDA        | EP-600     | 611WX70379         | 2026-03-03    |
| E-060-01EMC   | 3m Anechoic Chamber      | CHANGNING    | 9*6*6      | N/A                | 2028-06-09    |
| /   | Test Software<br>BL410-E | BL           | /          | V24.C24            | /             |
| <b>Power Frequency Magnetic Field</b>                   |                          |              |            |                    |               |
| E-001-01EMC   | PFMF Tester              | SANKI        | SKS-0805   | 080116007E321      | 2026-06-08    |

### 3.3 Supporting Equipment Used During Test

| No. | Name                    | Manufacturer                                  | Model       | Cal. Due Date | Note |
|-----|-------------------------|---|-------------|---------------|------|
| A   | IMU/VRU/AHRS/INS Module | Beijing Hipnuc Electronic Technology Co.,Ltd. | HI05 Series | /             | EUT  |

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|   |          |        |          |   |    |
|---|----------|--------|----------|---|----|
| B | Thinkpad | Lenovo | TP00083A | / | AE |
|---|----------|--------|----------|---|----|

Note: EUT=Equipment Under Test, AE=Auxiliary/Associated Equipment.

## 3.4 Input/Output Cables

| No. | Name                | Port Type | Cable Max. >3m | Cable Shielded | Note |
|-----|---------------------|-----------|----------------|----------------|------|
| 3   | Communication Cable | A/D       | 1.1m           | unshielded     | AE   |

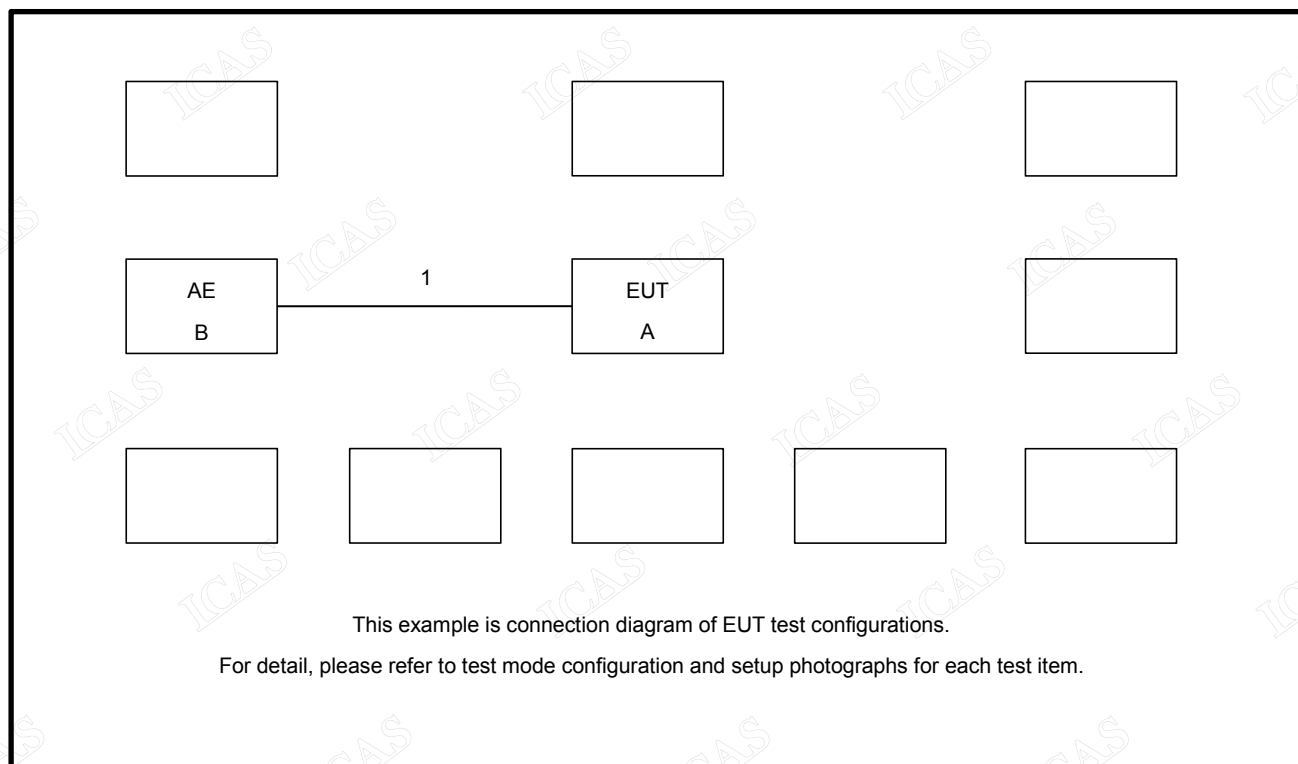
Note: AC=AC Power Port, DC=DC Power Port, A/D=Analogue/Digital data port (signal/control port, antenna port, wired network port, broadcastreceiver tuner port.optical fibre port), EUT=Equipment Under Test, AE=Auxiliary/Associated Equipment.

## 3.5 Test Mode

| Test Mode No. | Description        |
|---------------|--------------------|
| 1             | Power-on operation |

**Remark1:** To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. The test data of the worst-case condition was recorded in this report. Test Mode 1 is the worst mode in this report.

## 3.6 Connection Diagram of Test System



## 3.7 Test Performance Criteria for Immunity Tests

General Performance Criteria

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| Criteria | Performance criteria   |
|----------|--|
| 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.  |





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## 4 Test Items

### 4.1 Emission Tests

#### 4.1.1 Conducted Emission

##### 4.1.1.1 Limit

DC power port / Low voltage AC mains port

| Frequency range<br>(MHz) | DC                   |                   | AC                   |                   |
|--------------------------|----------------------|-------------------|----------------------|-------------------|
|                          | Quasi-peak<br>(dBuV) | Average<br>(dBuV) | Quasi-peak<br>(dBuV) | Average<br>(dBuV) |
| 0.15 - 0.50              | 89                   | 76                | 79                   | 66                |
| 0.50 - 30                | 83                   | 70                | 73                   | 60                |

NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

Wired network port

| Frequency range<br>(MHz) | Quasi-peak<br>(dBuV) | Average<br>(dBuV) |
|--------------------------|----------------------|-------------------|
| 0.15 - 0.50              | 97-87                | 84-74             |
| 0.50 - 30                | 87                   | 74                |

NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.



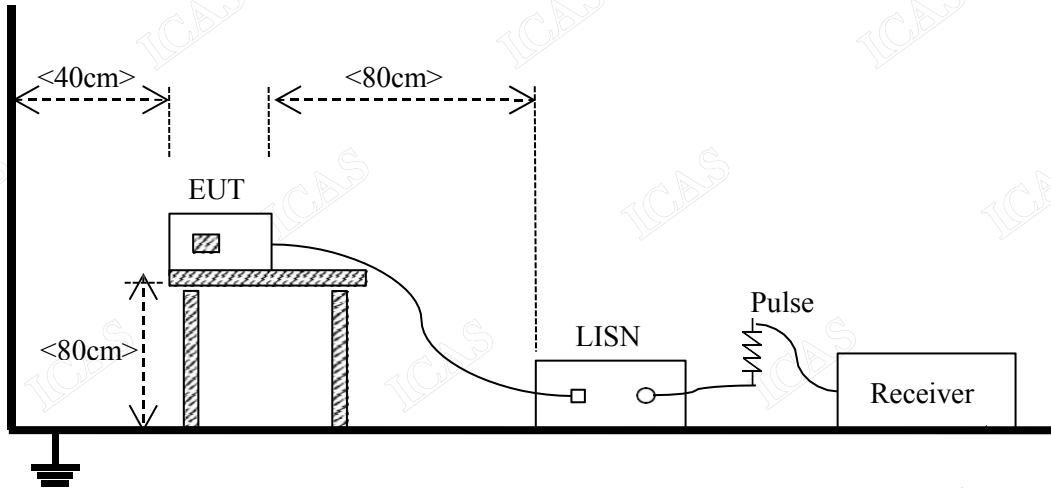
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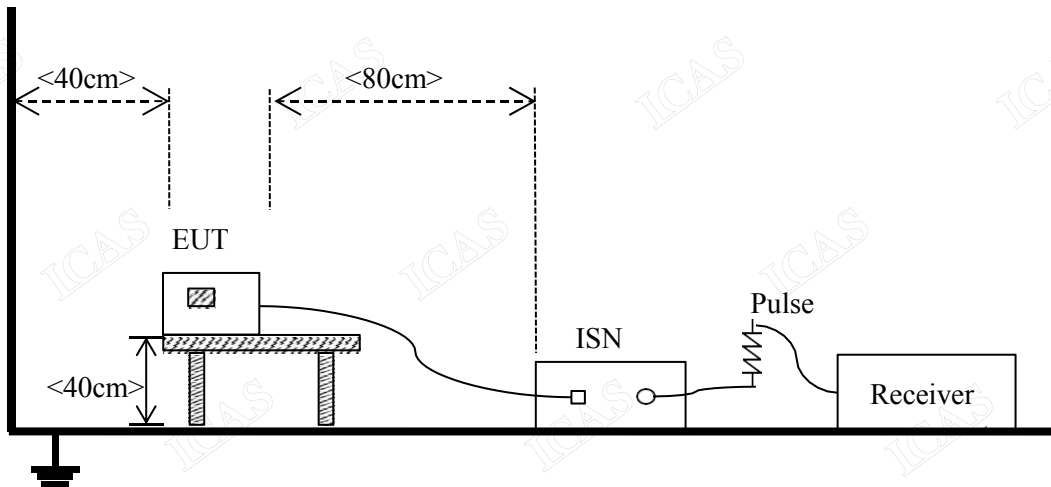
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## 4.1.1.2 Test Setup



(For Conducted Emission at DC power port / Low voltage AC mains port Test)



(For Conducted Emission for Telecommunications /network port Test)



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## 4.1.1.3 Test Procedure

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN at least 80 cm from nearest part of EUT chassis.

## 4.1.1.4 Test Result

Please refer to the section 5.1 of this report for test data



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## 4.1.2 Radiated Emission

### 4.1.2.1 Limit

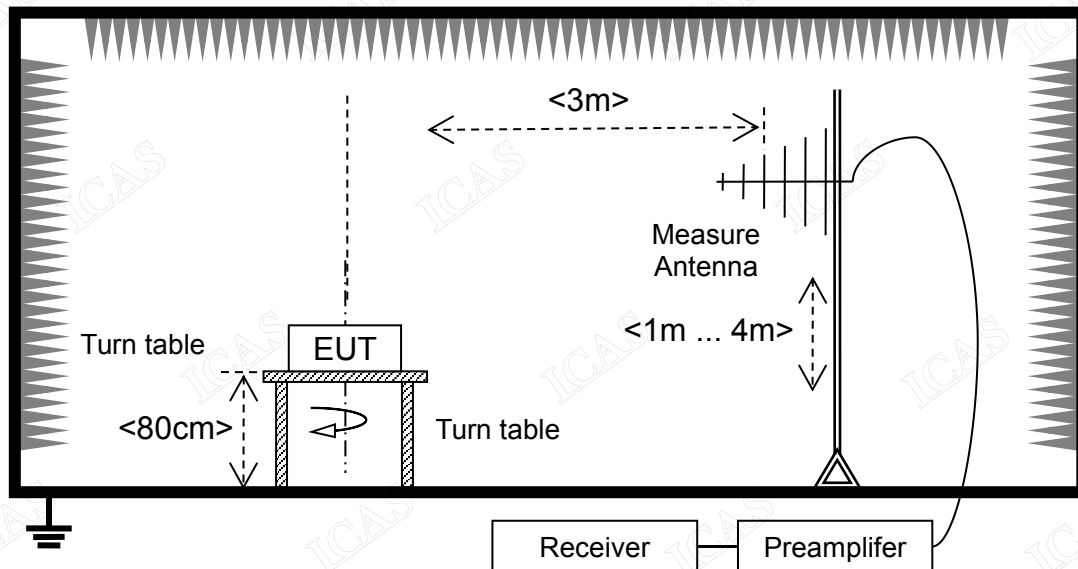
| Frequency range (MHz) | 3 m                 | 10 m                |
|-----------------------|---------------------|---------------------|
|                       | Quasi-peak (dBuV/m) | Quasi-peak (dBuV/m) |
| 30 - 230              | 50                  | 40                  |
| 230 - 1000            | 57                  | 47                  |

| Frequency range (MHz) | 3 m           |                  |
|-----------------------|---------------|------------------|
|                       | Peak (dBuV/m) | Average (dBuV/m) |
| 1000 - 3000           | 76            | 56               |
| 3000 - 6000           | 80            | 60               |

NOTE:

- 1) The lower limit shall apply at the transition frequency.

### 4.1.2.2 Test Setup



(For Radiated Emission Test (30 MHz-1 GHz))

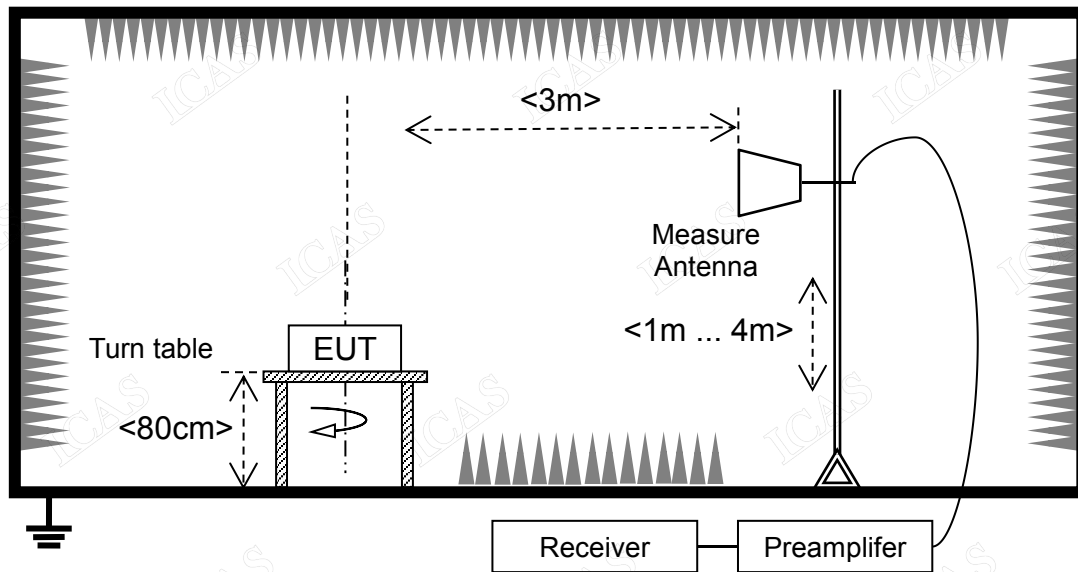


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(For Radiated Emission Test (above 1 GHz))

## 4.1.2.3 Test Procedure

1. The measuring distance of at 3m or 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
2. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
3. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi-Peak detector mode re measured.
5. If the Peak Mode measured value compliance with and lower than Quasi-Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

## 4.1.2.4 Test Result

Please refer to the section 5.2 of this report for test data.



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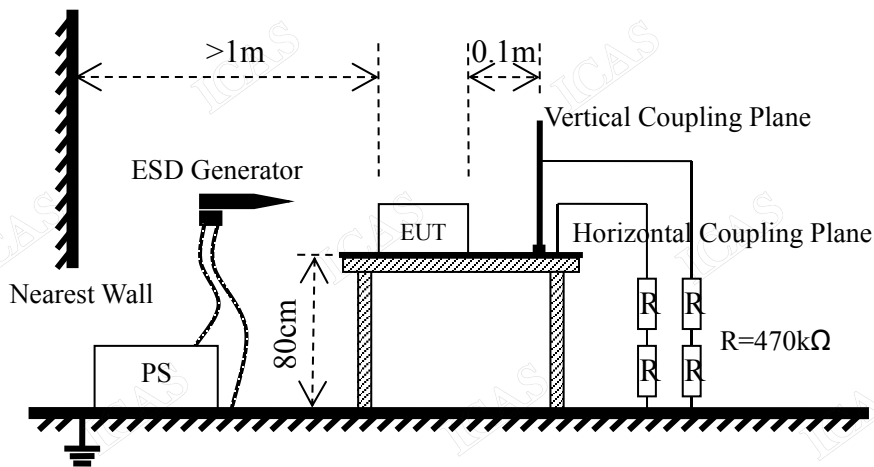
## 4.2 Immunity Tests

### 4.2.1 Electrostatic Discharges

#### 4.2.1.1 Test Specification

|                      |  |
|----------------------|--|
| Basic Standard       | IEC 61000-4-2  |
| Discharge Impedance  | 330 Ohm / 150 pF   |
| Discharge Voltage    | Air Discharge: 2, 4, 8kV; Contact Discharge: 4kV   |
| Polarity             | Positive / Negative  |
| Number of Discharge  | Air Discharge: min. 20 times at each test point<br>Contact Discharge: min. 20 times at each test point |
| Discharge Mode       | Single discharge   |
| Discharge Period     | 1 second minimum   |
| Required Performance | B  |

#### 4.2.1.2 Test Setup



#### 4.2.1.3 Test Procedure

1. Contact discharge was applied to conductive surfaces of the EUT.

During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 20 discharges, 10 each at negative and positive polarity, at a minimum of four test points.

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

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Horizontal Coupling Plane (HCP):

Discharge to the HCP shall be made horizontally to the edge of the HCP.

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center 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.

The discharge electrode shall be in contact with the edge of the HCP before the discharge switch is operated.

Product standards may require that all sides of the EUT are exposed to this test.

2. Air discharges at insulation surfaces of the EUT.

It was at least ten single discharges with positive and negative at the same selected point.

## 4.2.1.4 Test Result

Please refer to the section 5.3 of this report for test data



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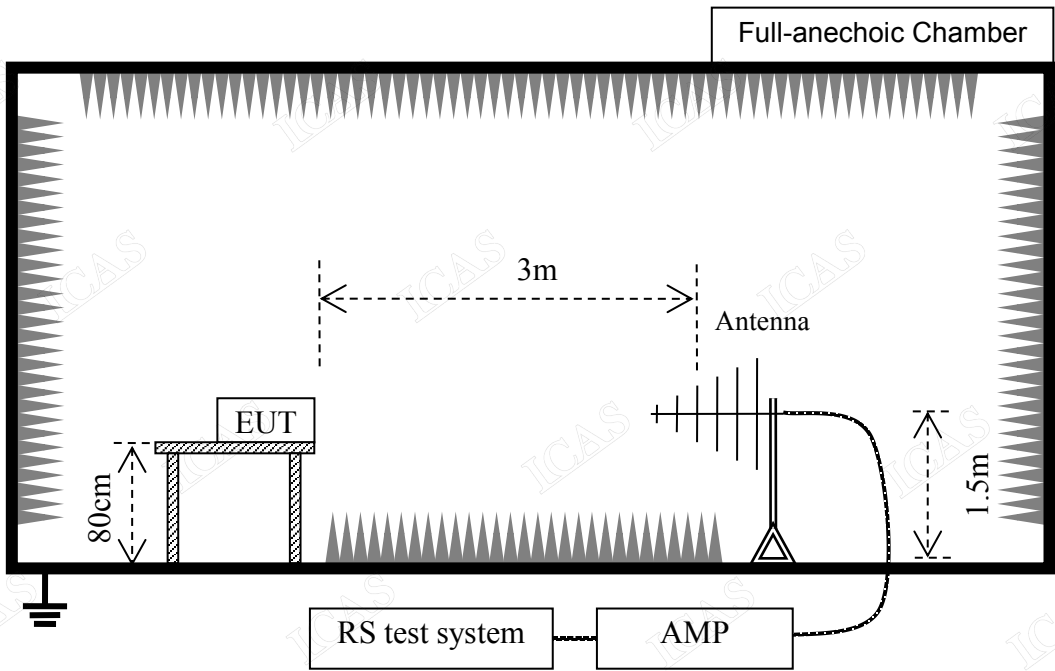
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## 4.2.2 Continuous RF Electromagnetic Field Disturbances

### 4.2.2.1 Test Specification

|                      |                                     |                            |
|----------------------|-------------------------------------|----------------------------|
| Basic Standard       | IEC 61000-4-3                       |                            |
| Frequency Range      | 80 MHz to 1000 MHz                  | 1400 MHz to 6000 MHz       |
| Field Strength       | 10 V/m (unmodulated, r.m.s)         | 3 V/m (unmodulated, r.m.s) |
| Modulation           | 1 kHz sine wave, 80%, AM modulation |                            |
| Frequency Step       | 1% of fundamental                   |                            |
| Polarity of Antenna  | Horizontal and Vertical             |                            |
| Test Distance        | 3 m                                 |                            |
| Antenna Height       | 1.5 m                               |                            |
| Dwell Time           | 3 seconds                           |                            |
| Required Performance | A                                   |                            |

### 4.2.2.2 Test Setup



(For RS Test (80 MHz-1 GHz))

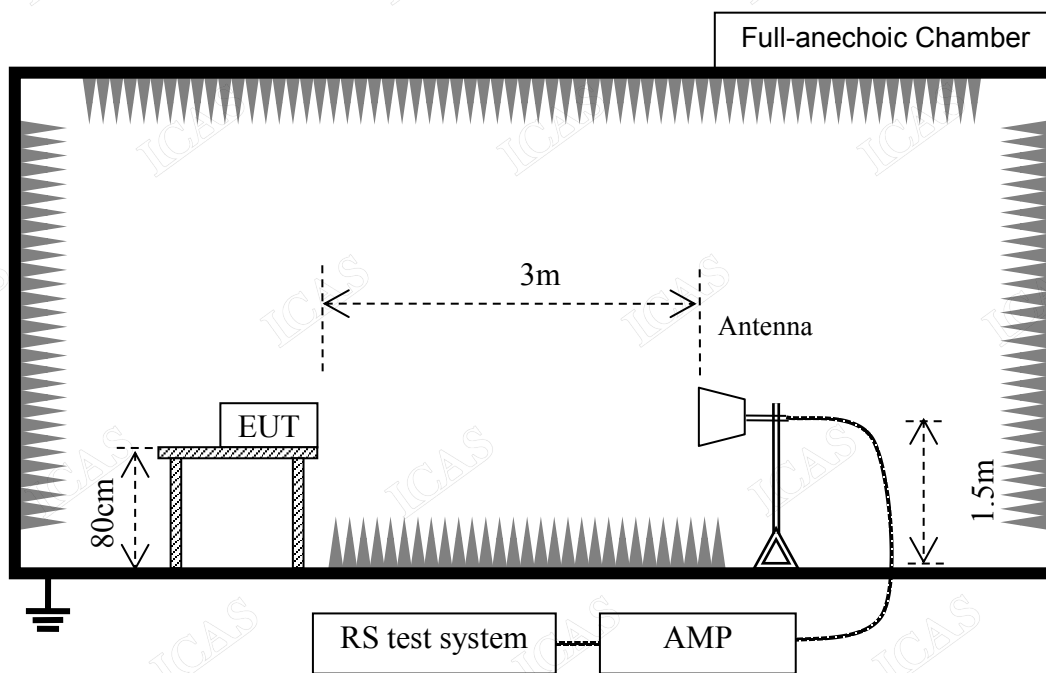


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(For RS Test (above 1 GHz))

## 4.2.2.3 Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

1. The field strength level was 80 MHz to 1000 MHz for 10V/m, 1400 MHz to 6000 MHz for 3V/m.
2. The frequency range is swept from 80 MHz to 1000 MHz, 1400 MHz to 6000 MHz , with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed  $1.5 \times 10^3$  decades/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
3. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
4. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

## 4.2.2.4 Test Result

Please refer to the section 5.4 of this report for test data



# TEST REPORT

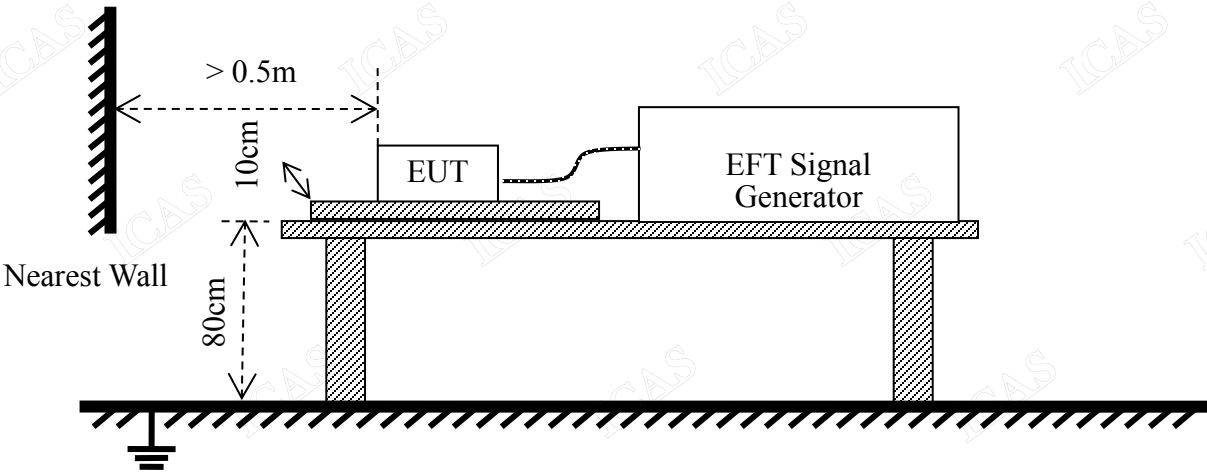
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## 4.2.3 Electrical Fast Transients/Burst

### 4.2.3.1 Test Specification

|                      |  |
|----------------------|--|
| Basic Standard       | IEC 61000-4-4  |
| Test Voltage         | AC power ports: 2kV,<br>DC power ports: 1kV,<br>Signal ports: 1kV. |
| Polarity             | Positive / Negative  |
| Impulse Frequency    | 5 /100 kHz   |
| Impulse Wave Shape   | 5/50 ns  |
| Burst Duration       | 15 ms  |
| Burst Period         | 300 ms   |
| Test Duration        | Not less than 1 min  |
| Required Performance | B  |

### 4.2.3.2 Test Setup



### 4.2.3.3 Test Procedure

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m\*1m min. and 0.65mm thick min.

The other condition as following manner:

1. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
2. Both positive and negative polarity discharges were applied.
3. The duration time of each test sequential was 1 minute.



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## 4.2.3.4 Test Result

Please refer to the section 5.5 of this report for test data.



# TEST REPORT

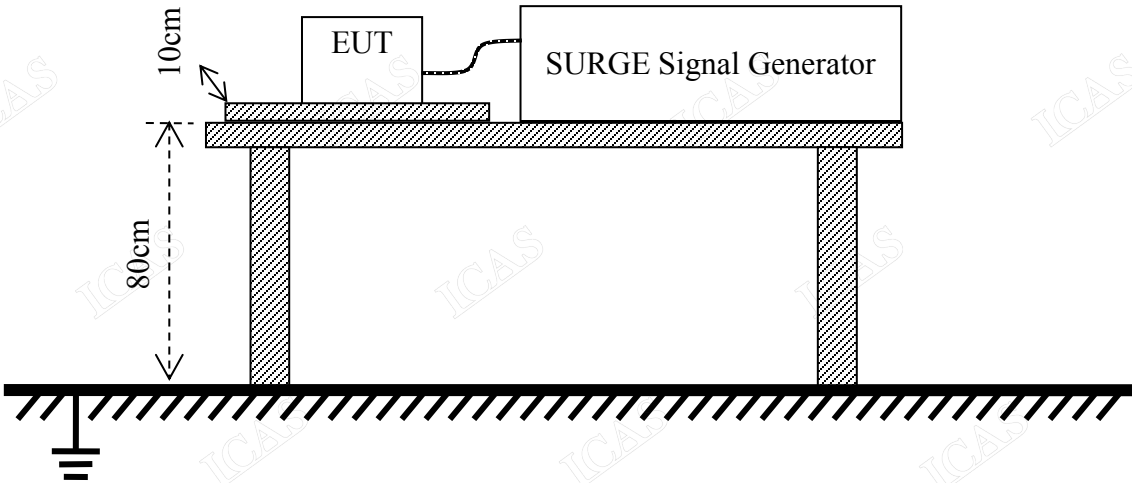
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## 4.2.4 Surges

### 4.2.4.1 Test Specification

|                      |   |   |                         |
|----------------------|---|---|-------------------------|
| Basic Standard       | IEC 61000-4-5                           |   |                         |
| Ports class          | AC power ports                          | DC power ports                            | Signal/control ports    |
| Waveform             | Voltage: 1.2/50 $\mu$ s                 | Voltage: 1.2/50 $\mu$ s                   | Voltage: 1.2/50 $\mu$ s |
| Test Voltage         | line to earth 2kV,<br>line to line 1kV; | line to earth 1kV,<br>line to line 0.5kV; | line to earth 1kV       |
| Polarity             | Positive / Negative                     |   |                         |
| Phase Angle          | 0°, 90°, 180°, 270°                     | N/A                                       | N/A                     |
| Repetition Rate      | 1 time / min. (maximum)                 |   |                         |
| Times                | 5 times per condition                   |   |                         |
| Required Performance | B                                       |   |                         |

### 4.2.4.2 Test Setup







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## 4.2.4.3 Test Procedure

1. For EUT: The surge is to be applied to the EUT terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).
2. For test applied to unshielded unsymmetrically operated interconnection lines of EUT: The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
3. For test applied to unshielded symmetrically operated interconnection/telecommunication lines of EUT: The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

## 4.2.4.4 Test Result

Please refer to the section 5.6 of this report for test data



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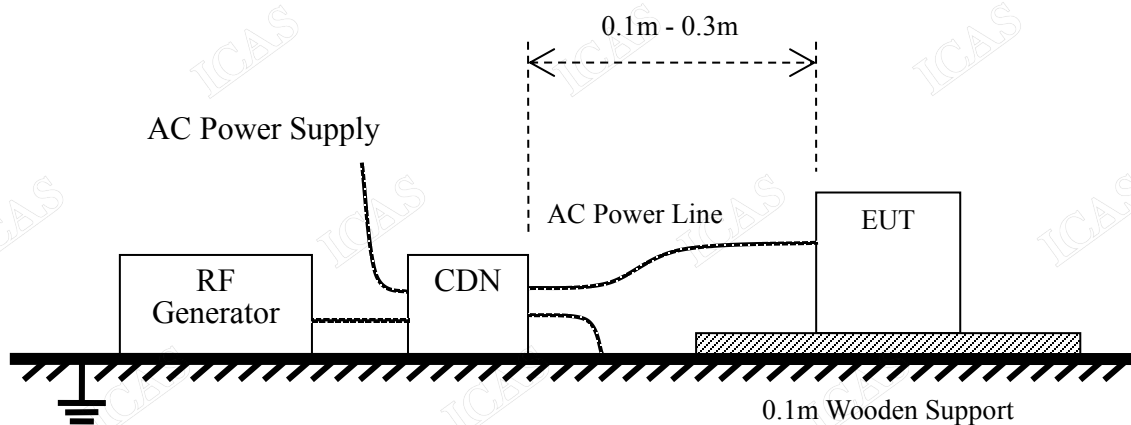
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## 4.2.5 Continuous Induced RF Disturbances

### 4.2.5.1 Test Specification

|                      |  |
|----------------------|--|
| Basic Standard       | IEC 61000-4-6  |
| Frequency Range      | 0.15MHz - 80MHz                                      |
| Field Strength       | 10V (unmodulated, r.m.s)                             |
| Modulation           | 1 kHz sine wave, 80% AM                              |
| Frequency Step       | 1% of fundamental                                    |
| Test Ports           | AC power ports; DC power ports; Signal/control ports |
| Required Performance | A  |

### 4.2.5.2 Test Setup



### 4.2.5.3 Test Procedure

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m\*1m min. and 0.65mm thick min.

The other condition as following manner:

1. The field strength level was 10V (rms)
2. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed  $1.5 \times 10^3$  decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
3. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.



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## 4.2.5.4 Test Result

Please refer to the section 5.7 of this report for test data



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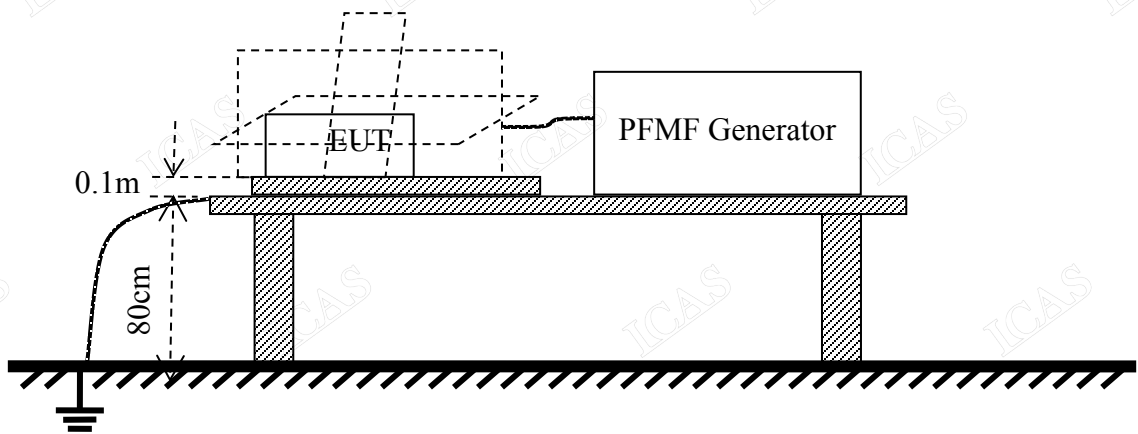
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## 4.2.6 Power Frequency Magnetic Field

### 4.2.6.1 Test Specification

|                      |               |
|----------------------|---------------|
| Basic Standard       | IEC 61000-4-8 |
| Frequency            | 50 & 60Hz     |
| Field strength       | 30A/m         |
| Test of polarization | X/Y/Z         |
| Required Performance | A             |

### 4.2.6.2 Test Setup



### 4.2.6.3 Test Procedure

1. The power supply, input and output circuits shall be connected to the sources of power supply, control and signal.
2. The cables supplied or recommended by the equipment manufacturer shall be used. 1 meter of all cables used shall be exposed to the magnetic field.
3. The EUT shall be subjected to the test magnetic field by using the induction coil of standard dimensions (1 m\*1 m). The induction coil shall then be rotated by 90° in order to expose the EUT to the test field with different orientations.

### 4.2.6.4 Test Result

Please refer to the section 5.8 of this report for test data



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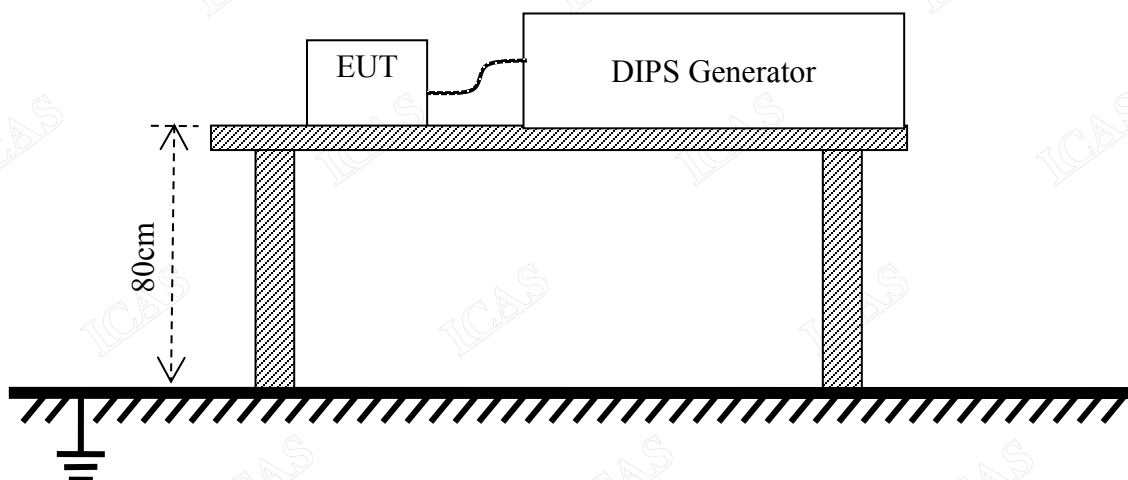
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## 4.2.7 Voltage Dips and Interruptions

### 4.2.7.1 Test Specification

|                       |   |
|-----------------------|---|
| Basic Standard        | IEC 61000-4-11  |
| Voltage Dips          | >95% reduction: 10 ms;<br>30% reduction: 500 ms   |
| Voltage Interruptions | >95% reduction: 5000 ms   |
| Voltage Phase Angle   | 0°  |
| Test Cycle            | 3 times   |
| Required Performance  | B (For >95% Voltage Dips)<br>C (For 30% Voltage Dips)<br>C (For >95% Voltage Interruptions) |

### 4.2.7.2 Test Setup



### 4.2.7.3 Test Procedure

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

### 4.2.7.4 Test Result

Please refer to the section 5.9 of this report for test data



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## 5 Test Results

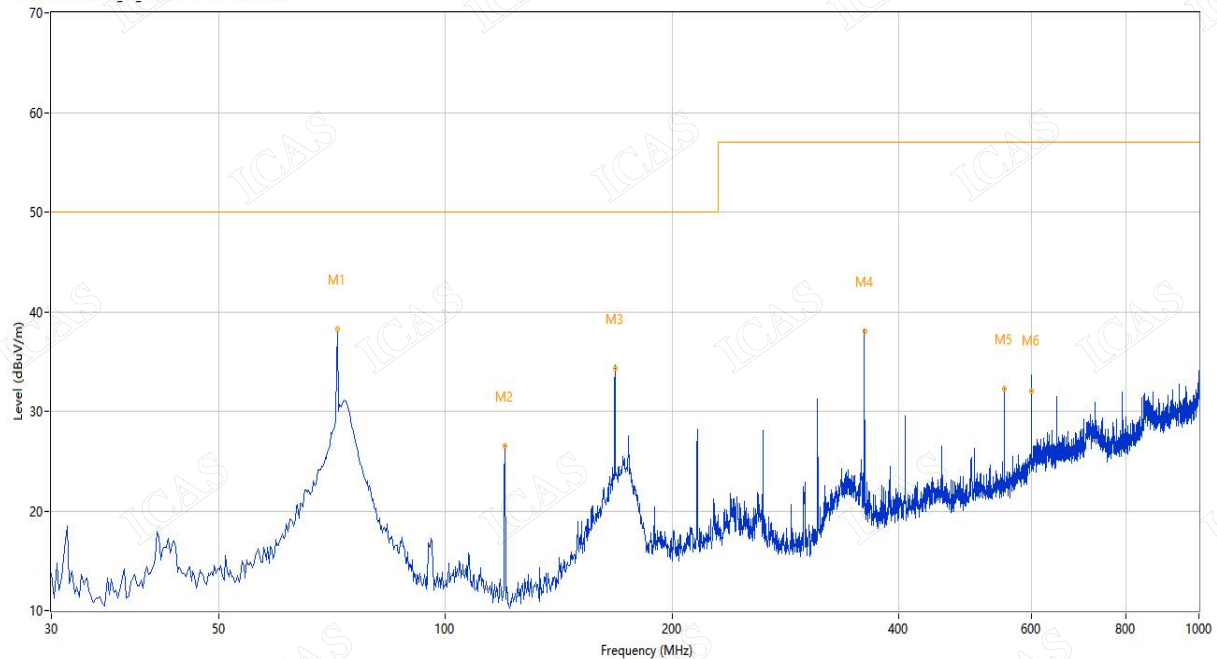
### 5.1 Conducted Emission

Note: Not applicable.

### 5.2 Radiated Emission

|                 |                        |                  |                     |
|-----------------|------------------------|------------------|---------------------|
| Temp./Hum./Atm. | 24.9°C/41%/102kPa      | Test Address     | 3m Anechoic Chamber |
| Test Mode:      | 1                      | Frequency Range: | 30M-1GHz            |
| Test Voltage:   | DC5V is powered by USB | Polarization:    | Horizontal          |

REmission Test case\_CE\_EN61000-6-4 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|---------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 72.000          | 39.73            | -30.00        | 50.0           | 10.27       | Peak     | 318.60         | 244         | Horizontal | Pass    |
| 1*  | 72.000          | 38.20            | -30.00        | 50.0           | 11.80       | QP       | 318.60         | 244         | Horizontal | Pass    |
| 2   | 120.000         | 27.40            | -28.11        | 50.0           | 22.60       | Peak     | 284.20         | 164         | Horizontal | Pass    |
| 2*  | 120.000         | 26.55            | -28.11        | 50.0           | 23.45       | QP       | 284.20         | 164         | Horizontal | Pass    |
| 3   | 168.000         | 35.56            | -28.79        | 50.0           | 14.44       | Peak     | 301.50         | 184         | Horizontal | Pass    |
| 3*  | 168.000         | 34.29            | -28.79        | 50.0           | 15.71       | QP       | 301.50         | 184         | Horizontal | Pass    |
| 4   | 359.999         | 38.76            | -21.87        | 57.0           | 18.24       | Peak     | 59.10          | 100         | Horizontal | Pass    |
| 4*  | 359.999         | 37.98            | -21.87        | 57.0           | 19.02       | QP       | 59.10          | 100         | Horizontal | Pass    |
| 5   | 551.999         | 33.64            | -16.99        | 57.0           | 23.36       | Peak     | 0.00           | 168         | Horizontal | Pass    |
| 5*  | 551.999         | 32.26            | -16.99        | 57.0           | 24.74       | QP       | 0.00           | 168         | Horizontal | Pass    |
| 6   | 599.999         | 33.87            | -14.77        | 57.0           | 23.13       | Peak     | 0.00           | 154         | Horizontal | Pass    |
| 6*  | 599.999         | 32.02            | -14.77        | 57.0           | 24.98       | QP       | 0.00           | 154         | Horizontal | Pass    |





# TEST REPORT

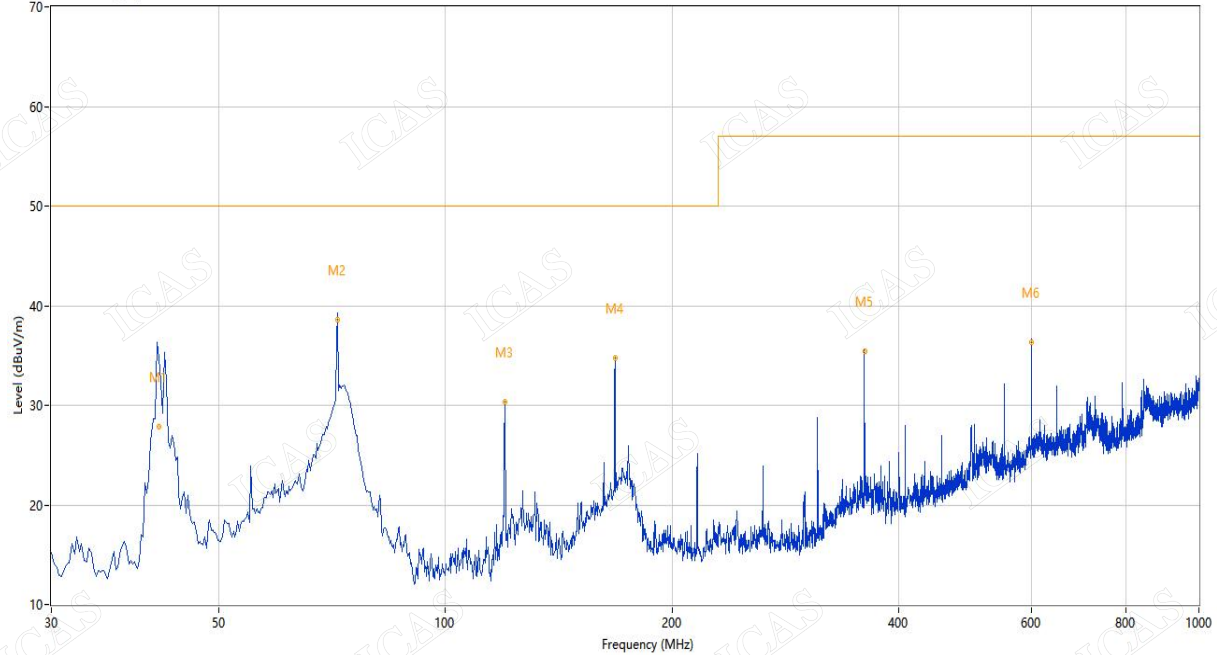
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|                 |                        |                  |                     |
|-----------------|------------------------|------------------|---------------------|
| Temp./Hum./Atm. | 24.9°C/41%/102kPa      | Test Address     | 3m Anechoic Chamber |
| Test Mode:      | 1                      | Frequency Range: | 30M-1GHz            |
| Test Voltage:   | DC5V is powered by USB | Polarization:    | Vertical            |

REmission Test case\_CE\_EN61000-6-4 30MHz-1GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|---------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 41.627          | 33.12            | -26.06        | 50.0           | 16.88       | Peak     | 159.60         | 100         | Vertical | Pass    |
| 1*  | 41.627          | 27.81            | -26.06        | 50.0           | 22.19       | QP       | 159.60         | 100         | Vertical | Pass    |
| 2   | 72.000          | 40.04            | -30.00        | 50.0           | 9.96        | Peak     | 273.70         | 100         | Vertical | Pass    |
| 2*  | 72.000          | 38.59            | -30.00        | 50.0           | 11.41       | QP       | 273.70         | 100         | Vertical | Pass    |
| 3   | 120.000         | 31.35            | -28.11        | 50.0           | 18.65       | Peak     | 279.60         | 100         | Vertical | Pass    |
| 3*  | 120.000         | 30.39            | -28.11        | 50.0           | 19.61       | QP       | 279.60         | 100         | Vertical | Pass    |
| 4   | 167.999         | 35.75            | -28.79        | 50.0           | 14.25       | Peak     | 285.80         | 100         | Vertical | Pass    |
| 4*  | 167.999         | 34.69            | -28.79        | 50.0           | 15.31       | QP       | 285.80         | 100         | Vertical | Pass    |
| 5   | 359.999         | 37.71            | -21.87        | 57.0           | 19.29       | Peak     | 328.30         | 129         | Vertical | Pass    |
| 5*  | 359.999         | 35.46            | -21.87        | 57.0           | 21.54       | QP       | 328.30         | 129         | Vertical | Pass    |
| 6   | 599.998         | 37.55            | -14.77        | 57.0           | 19.45       | Peak     | 184.30         | 101         | Vertical | Pass    |
| 6*  | 599.998         | 36.29            | -14.77        | 57.0           | 20.71       | QP       | 184.30         | 101         | Vertical | Pass    |



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## 5.3 Electrostatic Discharges

| Temp./Hum./Atm.  |                   | 27.4°C/49%/102kPa | Test Address         | EMC Lab①               |         |         |
|--|-------------------|-------------------|----------------------|------------------------|---------|---------|
| Test Mode  |                   | 1                 | Test Voltage         | DC5V is powered by USB |         |         |
| Coupling   |                   | Test Points       | Discharge Level (kV) | Performance Criteria   | Results | Verdict |
| Direct application   | Contact Discharge | Surface metal     | ±4                   | B                      | A       | Pass    |
|  | Air Discharge     | Surface crack     | ±2                   |                        | A       | Pass    |
|  |                   |                   | ±4                   |                        | A       | Pass    |
|  |                   |                   | ±8                   |                        | A       | Pass    |
| Indirect application   | HCP               | Front Side        | ±4                   |                        | A       | Pass    |
|  |                   | Back Side         | ±4                   |                        | A       | Pass    |
|  |                   | Left Side         | ±4                   |                        | A       | Pass    |
|  |                   | Right Side        | ±4                   |                        | A       | Pass    |
|  | VCP               | Front Side        | ±4                   |                        | A       | Pass    |
|  |                   | Back Side         | ±4                   |                        | A       | Pass    |
|  |                   | Left Side         | ±4                   |                        | A       | Pass    |
|  |                   | Right Side        | ±4                   |                        | A       | Pass    |
| Observations: During and after the test no observed/perceived response from EUT. |                   |                   |                      |                        |         |         |

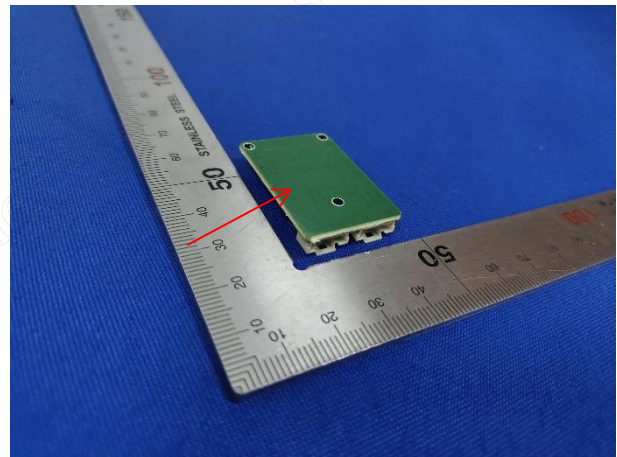
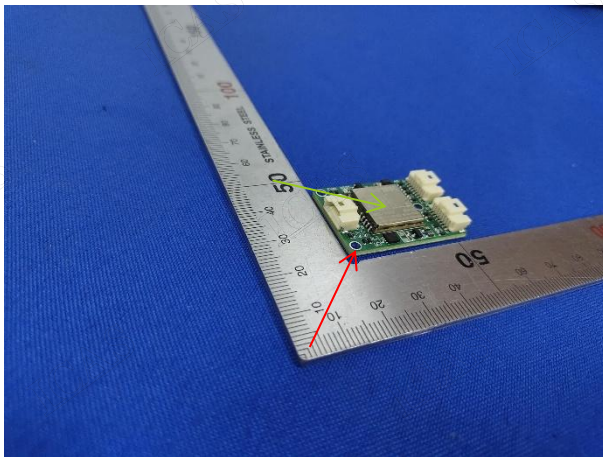
Test point as follows:



Air Discharge



Contact Discharge





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## 5.4 Continuous RF Electromagnetic Field Disturbances

| Temp./Hum./Atm.  | 24.9°C/41%/102kPa     |       | Test Address               | 3m Anechoic Chamber    |         |         |
|------------------|-----------------------|-------|----------------------------|------------------------|---------|---------|
| Test Mode        | 1                     |       | Test Voltage               | DC5V is powered by USB |         |         |
| Antenna Polarity | Frequency Range (MHz) | Side  | Field Strength Level (V/m) | Performance Criteria   | Results | Verdict |
| Horizontal       | 80 - 1000             | Front | 10                         | A                      | A       | Pass    |
|                  |                       | Back  | 10                         |                        | A       | Pass    |
|                  |                       | Left  | 10                         |                        | A       | Pass    |
|                  |                       | Right | 10                         |                        | A       | Pass    |
| Vertical         | 80 - 1000             | Front | 10                         |                        | A       | Pass    |
|                  |                       | Back  | 10                         |                        | A       | Pass    |
|                  |                       | Left  | 10                         |                        | A       | Pass    |
|                  |                       | Right | 10                         |                        | A       | Pass    |
| Horizontal       | 1400 - 6000           | Front | 3                          |                        | A       | Pass    |
|                  |                       | Back  | 3                          |                        | A       | Pass    |
|                  |                       | Left  | 3                          |                        | A       | Pass    |
|                  |                       | Right | 3                          |                        | A       | Pass    |
| Vertical         | 1400 - 6000           | Front | 3                          |                        | A       | Pass    |
|                  |                       | Back  | 3                          |                        | A       | Pass    |
|                  |                       | Left  | 3                          |                        | A       | Pass    |
|                  |                       | Right | 3                          |                        | A       | Pass    |

Observations: During and after the test no observed/perceived response from EUT.

## 5.5 Electrical Fast Transients/Burst

Note: Not applicable.

## 5.6 Surges

Note: Not applicable.

## 5.7 Continuous Induced RF Disturbances

Note: Not applicable.

## 5.8 Power Frequency Magnetic Field

| Temp./Hum./Atm.  | 26.8°C/38%/102kPa | Test Address | EMC Lab②                |         |         |
|--|-------------------|--------------|-------------------------|---------|---------|
| Test Mode  | 1                 | Test Voltage | DC5V is powered by USB  |         |         |
| Magnetic Field Strength<br>A/m   | Test Frequency    | Polarity     | Performance<br>Criteria | Results | Verdict |
| 30   | 50, 60            | X            | A                       | A       | Pass    |
|  |                   | Y            |                         | A       | Pass    |
|  |                   | Z            |                         | A       | Pass    |
| Observations: During and after the test no observed/perceived response from EUT. |                   |              |                         |         |         |



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## 5.9 Voltage Dips and Interruptions

Note: Not applicable.



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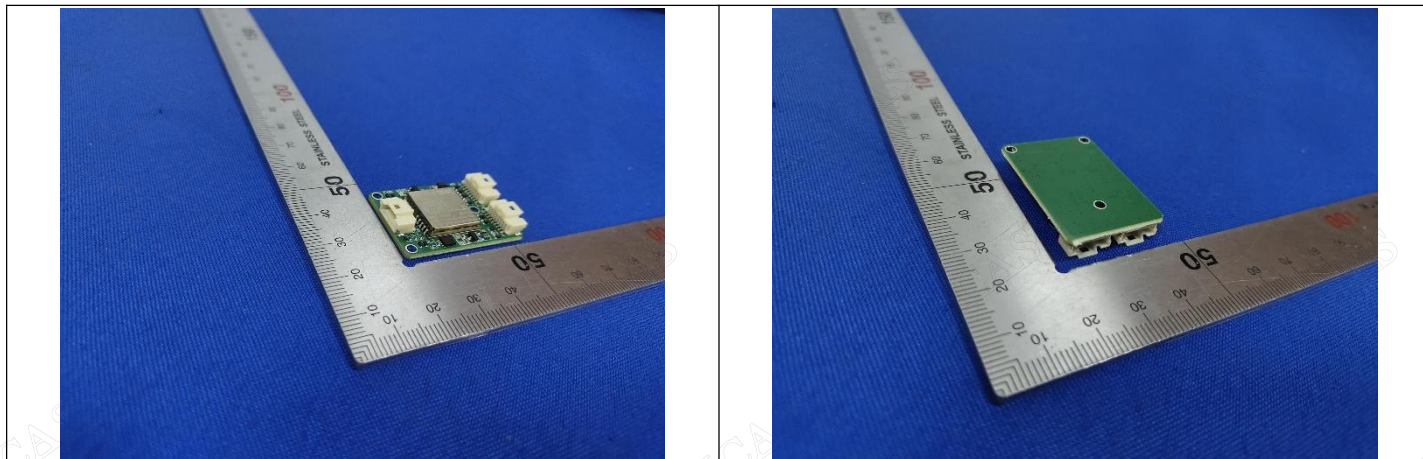
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## 6 Photographs of the EUT and Test Set-Up

### 6.1 Photographs of the EUT







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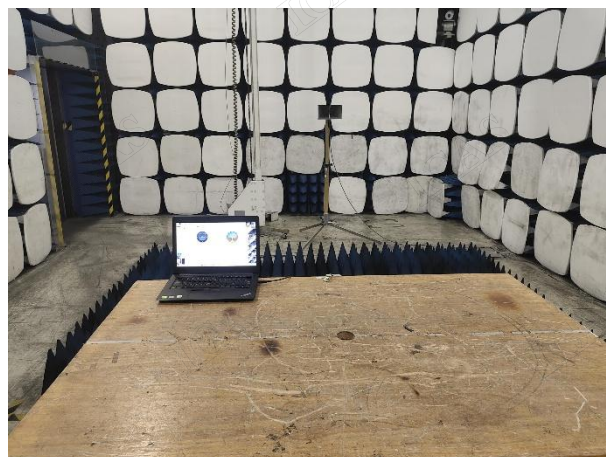
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## 6.2 Photographs of the Test Set-up

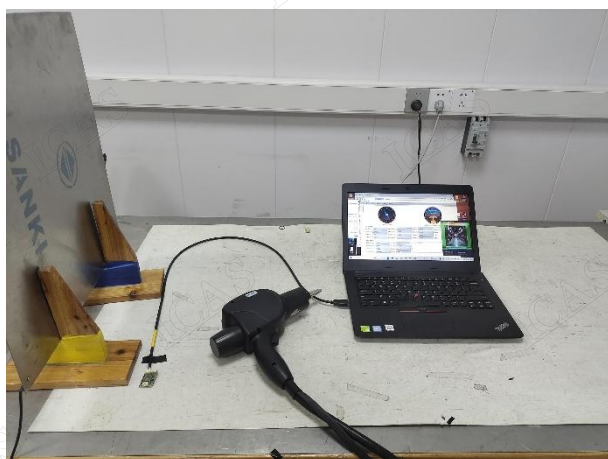
Radiated Emission Test Set-up for  
30M-1GHz



Radiated Emission Test Set-up for  
1-6GHz



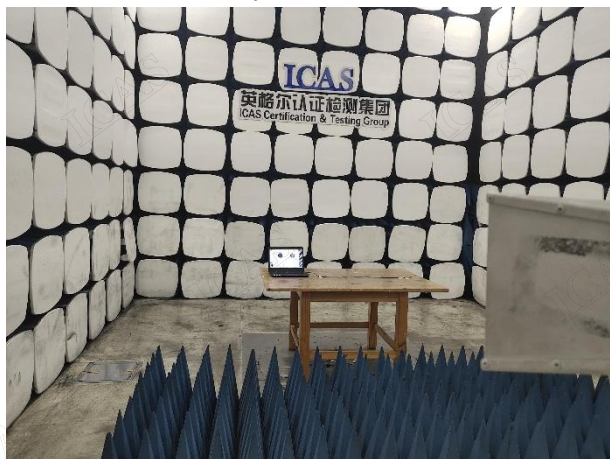
Electrostatic Discharges Test Set-up



Continuous RF Electromagnetic Field Disturbances  
Test Set-up for 80M-1GHz



Continuous RF Electromagnetic Field Disturbances Test  
Set-up for 1.4-6GHz



Power Frequency Magnetic Field Test Set-up



\*\*\*End of the report\*\*\*



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