TEST REPORT

for

SIBO.X INDUSTRIAL CO.,LTD.
Flow meter
Model: YS series

Prepared for :	SIBO.X INDUSTRIAL CO.,LTD. No. 11, Wenluo West Road, Jiulonghu Town, Zhenhai District, Ningbo City, Zhejiang Province,China 315033
Prepared by:	Shenzhen HTT Technology Co.,Ltd 1F, A and B Building, Huafeng International Robotics Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen

Report Number：HTT202606786ER
Date of Test：Jun. 18, 2026 ~ Jun. 24, 2026
Date of Issue：Jun. 24, 2026

Tested By Jeremy Zhang
Jeremy Zhang

Reviewed By Kevin Yang
KevinYang/Senior Manager

The results detailed in this test report relate only to the specific sample(s) tested. It is the Application's responsibility to ensure that all production units are manufactured with equivalent EMC characteristics. This report is not to be reproduced except in full, without written approval from HTT Technology.

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1.0 General Details

1.1 Test Lab Details

Name : Shenzhen HTT Technology Co.,Ltd

Address: 1st Floor, Building A and B, Huafeng International Robotics Industrial Park, Xixiang Street, Bao'an District, Shenzhen

1.2 Applicant Details

Applicant: SIBO.X INDUSTRIAL CO.,LTD.

Address: No. 11, Wenluo West Road, Jiulonghu Town, Zhenhai District, Ningbo City, Zhejiang Province,China 315033

Manufacturer: SIBO.X INDUSTRIAL CO.,LTD.

Address: No. 11, Wenluo West Road, Jiulonghu Town, Zhenhai District, Ningbo City, Zhejiang Province,China 315033

1.3 Description of EUT

Product:	Flow meter
Model No.:	YS series
Additional Model No:	N/A
Brand Name:	N/A
Power Rating:	DC 24V

1.4 Submitted Sample

1 Sample

1.5 Test Duration

Jun. 18, 2026~Jun. 24, 2026

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2.0 List Test Equipments					
Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
Conducted emission					
EMI Test Receiver	ESCI	100005	R&S	2026-04-20	2027-04-20
LISN	LS16	16010222119	AFJ	2026-04-20	2027-04-20
LISN(EUT)	AN3016	04/10040	Mestec	2026-04-20	2027-04-20
Radiated emission					
EMI Test Receiver	ESCI	100005	R&S	2026-04-20	2027-04-20
Spectrum Analyzer	FSU	100114	R&S	2026-04-20	2027-04-20
Pre Amplifier	HP8447E	2945A02715	H.P.	2026-04-20	2027-04-20
Bilog Antenna	JB3	A021907	SUNOL Sciences	2026-04-20	2027-04-20
Cable	LMR-400	N-TYPE04	TIME MICROWAVE	2026-04-20	2027-04-20
Harmonic & Flicker					
Harmonics Flicker Test System	PACS-1	72305	CI	2026-04-20	2027-04-20
5K VA AC Power source	5001iX	56060	CI	2026-04-20	2027-04-20
Electrostatic Discharge					
ESD 2000	ESD2000	182	EMC PARTNER	2026-04-20	2027-04-20
Continuous radiated disturbances					
Signal Generator	2022D	119246/003	Maconi	2026-04-20	2027-04-20
Power Amplifier	A00181-1000	9801-112	M2S	2026-04-20	2027-04-20
Power Amplifier	AC8113/ 800-250A	9801-179	M2S	2026-04-20	2027-04-20
Power Antenna	CBL6140A	1204	SCHAFFNER	2026-04-20	2027-04-20
EFT/Surge/Dip					
EMC PARTNER TRANSIENT 2000	TRA2000	881	EMC PARTNER	2026-04-20	2027-04-20
Continuous conducted disturbances					
Signal Generator	2022D	119246/003	Maconi	2026-04-20	2027-04-20
Power Amplifier	A00181-1000	9801-112	M2S	2026-04-20	2027-04-20
CDN	M3-8016	003683	MEB	2026-04-20	2027-04-20
Power-frequency Magnetic field					
Continuous Wave Simulator	UCS 500 M4	0304-42	EM TEST	2026-04-20	2027-04-20
Power Source Network	MV 2616	0104-14	EM TEST	2026-04-20	2027-04-20
Current Transformer	MC2630	--	EM TEST	2026-04-20	2027-04-20
Magnetic Coil	MS100	0304-42	EM TEST	2026-04-20	2027-04-20

N/A=not applicable

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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] & Electromagnetic Susceptibility [EMS] tests for CE Marking

3.2 Test Standards

EN 61326-1:2021	Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics –Limits and methods of measurement
EN IEC 61000-3-2:2019 +A2:2024	Electromagnetic compatibility(EMC)- Part 3-2:Limits-Limits for harmonic current emissions(equipment input current ≤16A per phase)
EN 61000-3-3:2013+A2:2021+AC:2022-01	Electromagnetic compatibility (EMC)- Part 3-3:Limits-Limitation of voltage changes, Voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16A per phase and not subject to conditional connection

3.3 Performance Criteria

Criterion A During testing, normal performance within the specification limits.
Example 1: If electronic equipment is required to work with high reliability, the EUT shall operate without any apparent degradation from the manufacturer's specification.

Criterion B During testing, temporary degradation, or loss of function or performance which is self-recovering.
Example 1: A data transfer is controlled/ checked by parity check or by other means. In the case of malfunctioning, such as caused by a lightning strike, the data transfer will be repeated automatically. The reduced data transfer rate at this time is acceptable. Example 2: During testing, an analogue function value may deviate. After the test, the deviation vanished. Example 3: In the case of a monitor used only for man-machine monitoring, it is acceptable that some degradation takes place for a short time, such as flashes during the burst application.

Criterion C During testing, temporary degradation, or loss of function or performance which requires operator intervention or system reset occurs.
Example 1: In the case of an interruption in the mains longer than the specified buffer time, the power supply unit of the equipment is switched off. The switch-on may be automatic or carried out by the operator. Example 2: After a programme interruption caused by a disturbance, the processor functions of the equipment stops at a defined position and is not left in a "crashed state". The operator's decision prompts may be necessary. Example 3: The test results in an opening of an over-current protection device that is replaced or reset by the operator.

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3.4 Test standards and Results Summary Tables

Test Condition	Test Requirement	Test Method	Test Result
EMISSION Results Summary			
Conducted Emission on AC Mains, 150KHz to 30MHz	EN 61326-1:2021	EN 61326-1:2021	N/A
Radiated Emissions, 30MHz to 1GHz	EN 61326-1:2021	EN 61326-1:2021	Pass
Harmonic Emissions on AC supply	EN IEC 61000-3-2: 2019 +A2:2024	EN IEC 61000-3-2: 2019 +A2:2024	N/A
Voltage fluctuations on AC supply	EN 61000-3-3:2013+A2:2021 +AC:2022-01	EN 61000-3-3:2013+A2:2021 +AC:2022-01	N/A
IMMUNITY Results Summary			
Electrostatic Discharge	EN 61326-1:2021	EN 61000-4-2:2009	Pass
RF field strength susceptibility	EN 61326-1:2021	EN 61000-4-3:2006+A1:2008 +A2:2010	Pass
Electrical Fast transients /Burst Immunity	EN 61326-1:2021	EN 61000-4-4:2012	N/A
Surge	EN 61326-1:2021	EN 61000-4-5:2014	N/A
Conducted susceptibility	EN 61326-1:2021	EN 61000-4-6:2014+AC:2015	N/A
Power-frequency Magnetic Field	EN 61326-1:2021	EN 61000-4-8: 2010	Pass
Dips/Voltage Interruption Variation	EN 61326-1:2021	EN 61000-4-11:2004+A1:2017	N/A

Note: N/A=Not applicable

3.5 Measurement Uncertainty（95% confidence levels, k=2)

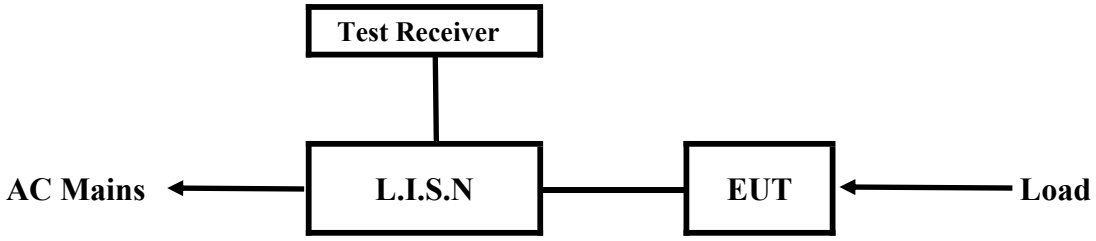
No.	Item	MU
1.	Temperature	±0.1℃
2.	Humidity	±1.0%
3.	Spurious emissions, conducted	±3.70dB
4.	All emissions, radiated	±4.50dB

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4.0 Electromagnetic Interference Test results

4.1 Power Line Conducted Emission Test

4.1.1 Schematics of the test



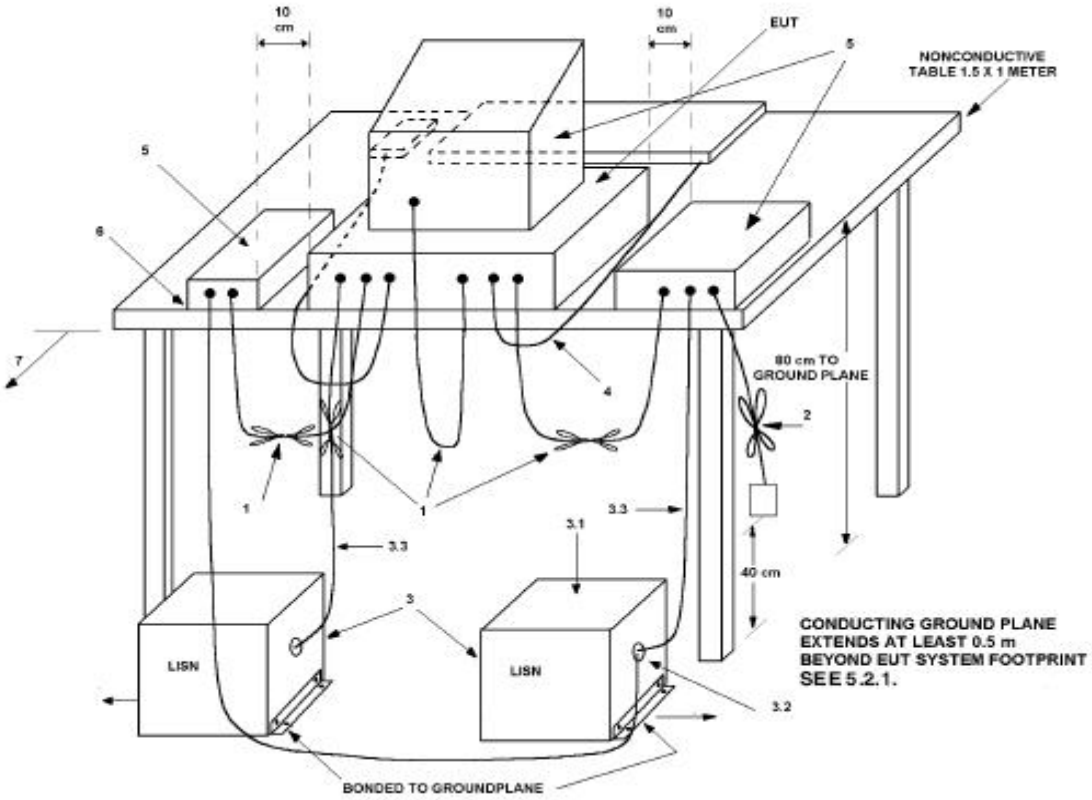
EUT: Equipment Under Test

4.1.2 Test Method and test Procedure

The test was performed in accordance with EN 61326-1:2021

Test Voltage: 230V~, 50Hz

Block diagram of Test setup



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4.1.3 EUT Operating Condition

Operating condition is according to EN 61326-1:2021

Setup the EUT and simulators as shown on the following

4.1.4 Test Equipment

Please refer to the Section 2

4.1.5 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits (dBμV)		Class B Limits (dBμV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ～ 0.50	79.0	66.0	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	73.0	60.0	56.0	46.0
5.00 ～ 30.00	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

3. The EUT is a Class A equipment, so it requires meet the applicable limits.

4.1.6 Photo documentation of the test set-up

Please refer to the Section 7

4.1.7 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 50% Atmospheric pressure: 103kPa

Frequency range: 0.15 MHz – 30 MHz

The test was carried out in the following operation mode(s):

- Normal operation mode

4.1.8 Test result

Min. limit margin > 10dB from 0.15 MHz-30 MHz

The requirements are DISSATISFACTION

Remarks:	According to the EN 61326-1:2021
Operation Mode:	Working
Tested By:	Jeremy Zhang
Test Result:	N/A
Detector Function	Peak / Quasi-peak/AV
Environmental Conditions	26°C, 55% RH

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4.2 Radiated Emission Test

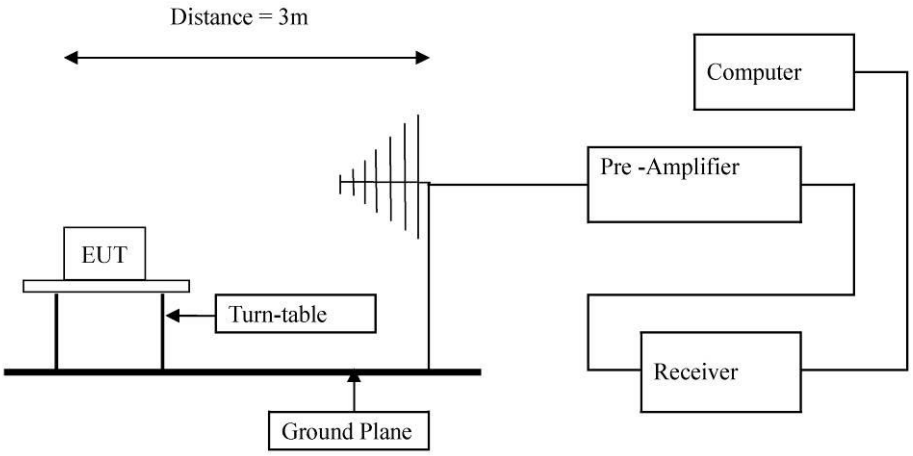
4.2.1 Schematics of the test

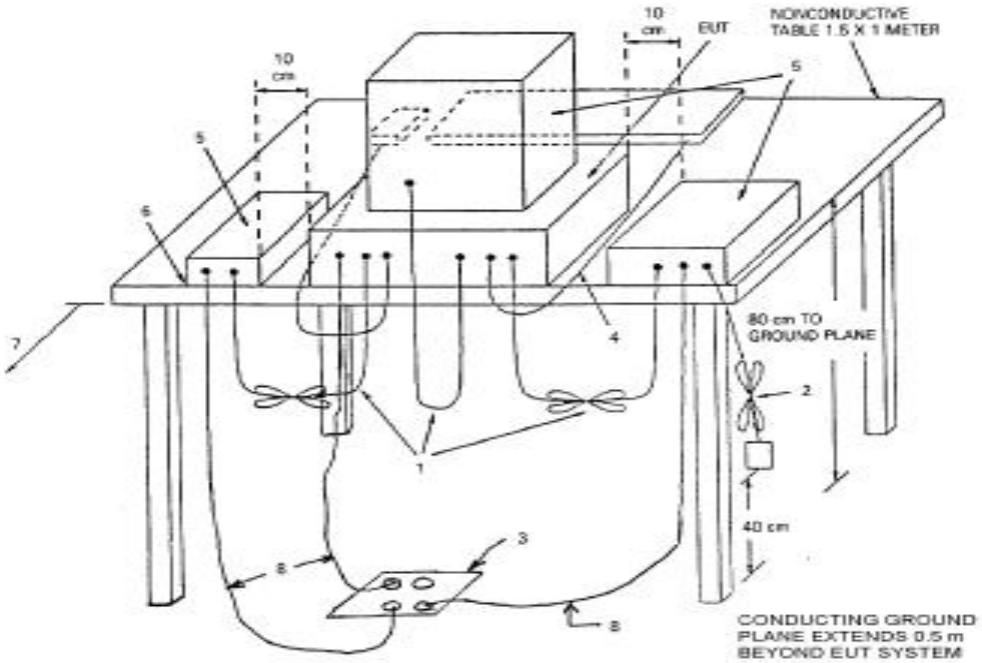


EUT: Equipment Under Test

4.2.2 Test Method: The test was performed in accordance with EN 61326-1:2021

Block diagram of Test setup





4.2.3 EUT Operating Condition

Operating condition is according to EN 61326-1:2021

4.2.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequency Range (MHz)	Distance (m)	Quasi-Peak limits (dB μ V/m)	
		Class A Limits	Class B Limits
30-230	3	50.00	40.00
230-1000	3	57.00	47.00

Note: 1) The lower limit shall apply at the transition frequencies

2) If measurement is not made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)

3. The EUT is a Class A equipment, so it requires meet the applicable limits.

4.2.5 Photo documentation of the test set-up

Please refer to the Section 7

4.2.6 Test Equipment:

Please refer to the Section 2

4.2.7 Test specification:

Environmental conditions: Temperature 24° C Humidity: 46% Atmospheric pressure: 103kPa

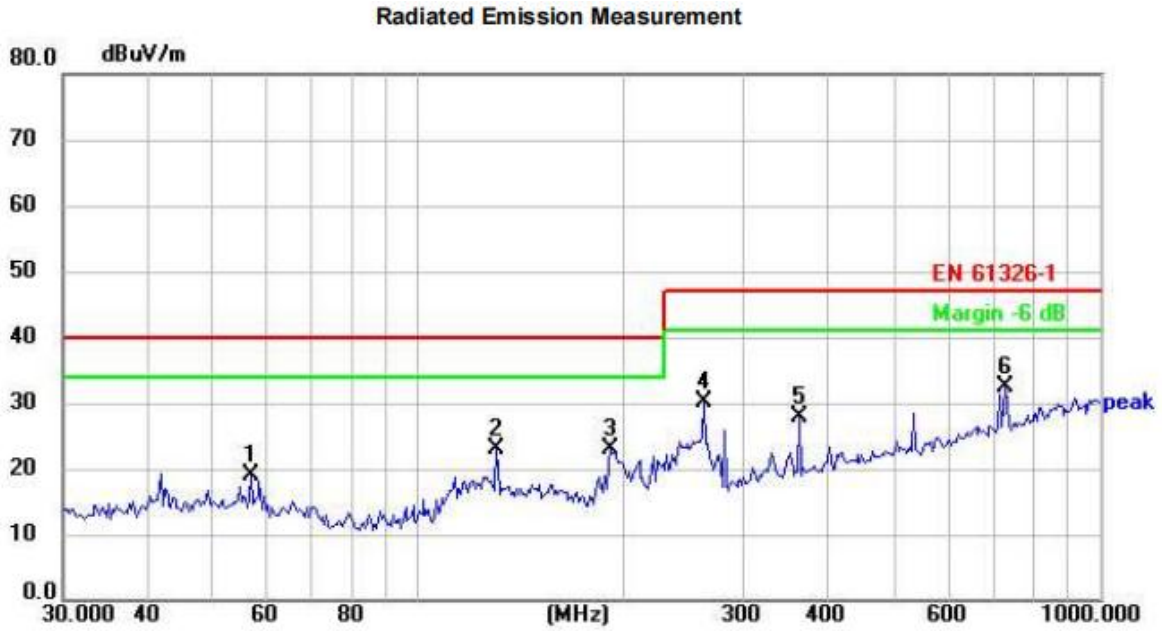
4.2.8 Test result

Min. limit margin > 10dB from 30 MHz-1000 MHz

The requirements are FULFILLED

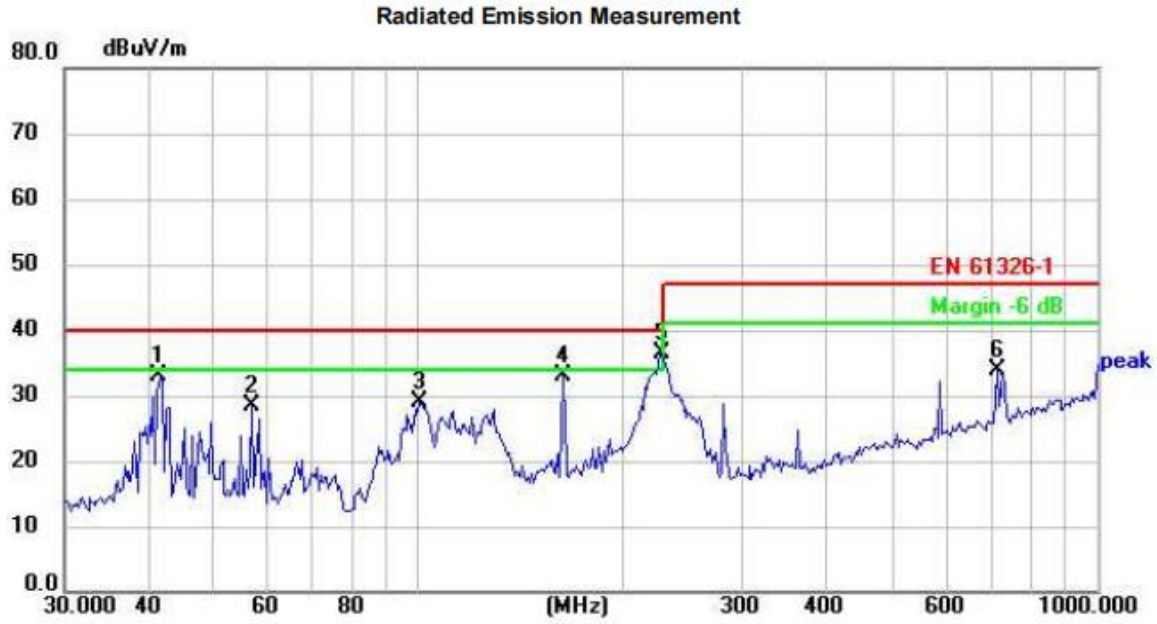
Remarks:	According to the EN 61326-1:2021
Operation Mode:	Working
Tested By:	Jeremy Zhang
Test Result:	Pass
Detector Function	Peak / Quasi-peak
Environmental Conditions	26°C, 55% RH

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Site LAB
Limit: EN 61326-1
Polarization: *Horizontal*
Power:
Temperature: ℃
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		56.7917	31.17	-12.10	19.07	40.00	-20.93	peak	
2		129.9226	34.50	-11.41	23.09	40.00	-16.91	peak	
3		191.0738	36.32	-13.34	22.98	40.00	-17.02	peak	
4		261.9753	41.43	-11.17	30.26	47.00	-16.74	peak	
5		361.7139	36.83	-8.93	27.90	47.00	-19.10	peak	
6	*	724.2611	34.24	-1.94	32.30	47.00	-14.70	peak	



Site LAB Polarization: *Vertical* Temperature: ℃

Limit: EN 61326-1 Power: Humidity: %

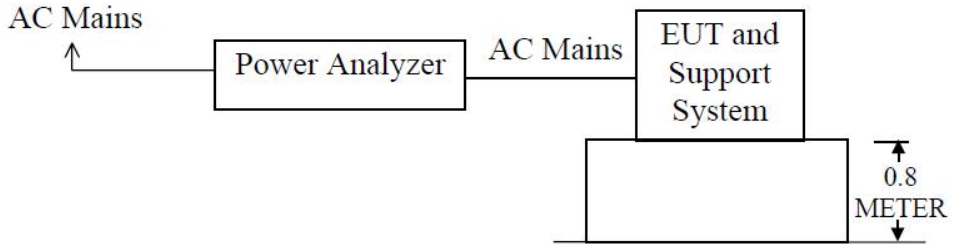
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		41.7129	44.36	-11.46	32.90	40.00	-7.10	peak	
2		56.7917	40.54	-12.10	28.44	40.00	-11.56	peak	
3		100.2286	44.09	-14.99	29.10	40.00	-10.90	peak	
4		162.6106	43.21	-10.30	32.91	40.00	-7.09	peak	
5	*	227.6906	49.64	-13.10	36.54	40.00	-3.46	peak	
6		714.1734	35.73	-1.80	33.93	47.00	-13.07	peak	

4.3 Harmonic Current Emissions

4.3.1 EUT Operating Mode

Normal operation mode

4.3.2 Block Diagram of Test Setup.



This test was performed as per EMC Basic Standard EN61000-3-2 Class B

4.3.3 Test Equipment

Please refer to Section 2 this report.

4.3.4 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 54% Atmospheric pressure: 103kPa

4.3.5 Results

Port	EUT Operating mode	Result (Passed / Failed)
AC Input	Working	N/A

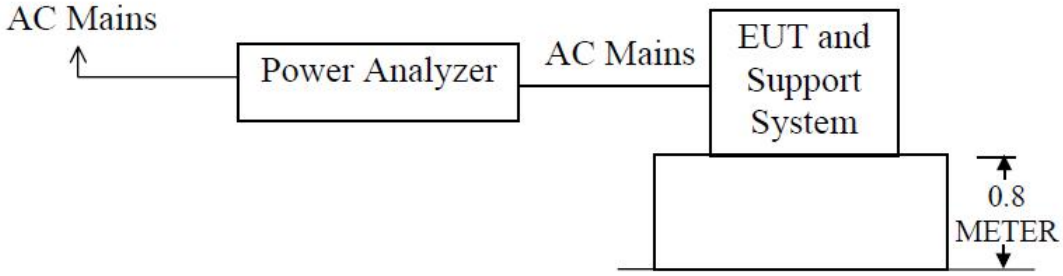
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4.4 Flicker and Voltage Fluctuation

4.4.1 EUT Operating Mode

Normal operation mode

4.4.2 Block Diagram of Test Setup.



This test was performed as per EMC Basic Standard EN 61000-3-3

4.4.3 Limits of Voltage Fluctuation and Flicks Measurement

Test Item	Limit	Note
P_{st}	1.0	Pst means short-term flicker indicator
P_{lt}	0.65	Plt means long-term flicker indicator
T_{dt} (ms)	200	Tdt means maximum time that dt exceeds 3%.
d_{max} (%)	4	Dmax means maximum relative voltage change.
dc (%)	3	Dc means relative steady-state voltage change.

4.4.4 Test Equipment

Please refer to Section 2 this report.

4.4.5 Test specification:

Environmental conditions: Temperature: 21° C Humidity: 54% Atmospheric pressure: 103kPa

4.4.6 Results

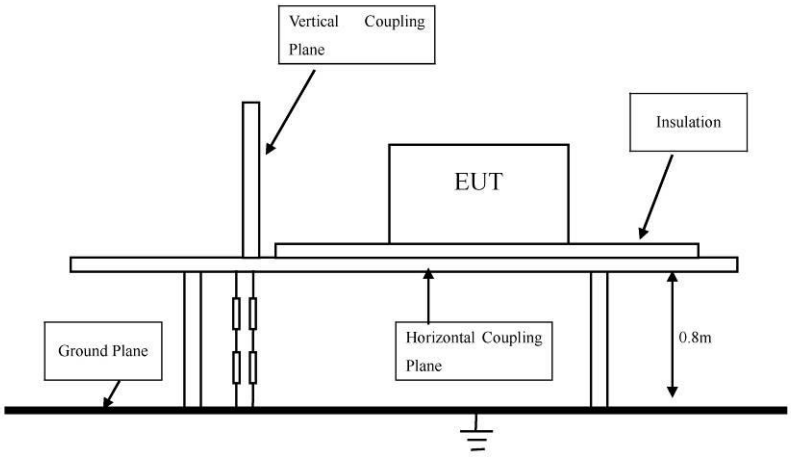
Port	EUT Operating mode or operating mode no.	Result (Passed / Failed)
AC Input	Working	N/A

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5.0 Immunity Test

5.1 Electrostatic Discharge

5.1.1 Schematic of the test



5.1.2 Test method

The test was performed in accordance with EN 61000-4-2

5.1.3 Test severity

±4kV for direct & in-direct Contact Discharge

±8kV for air Discharge

Performance Criterion Require: **B**

5.1.4 Test Equipment

Please refer to Section 2 this report.

5.1.5 Test specification:

Environmental conditions: Temperature: 21° C Humidity: 54% Atmospheric pressure: 103kPa

5.1.6 Operation mode: Working

5.1.7 Discharge location
- HCP
- VCP

5.1.8 Test Result Pass

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5.2 RF field strength susceptibility (80MHz------ 6000MHz)

5.2.1 Test Method:

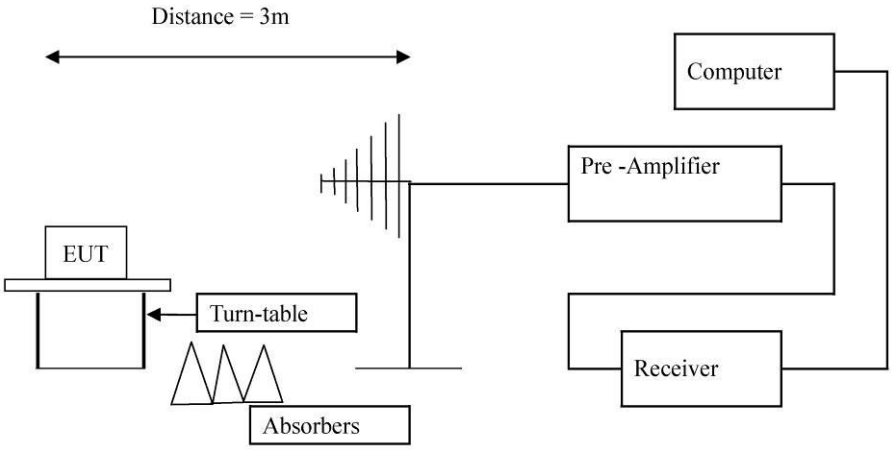
The test was performed in accordance with EN 61000-4-3

Severity: Level 3 (10V/m) for 80MHz-1000MHz
Level 2 (3V/m) for 1400MHz-2000MHz
Level 1 (3V/m) for 2000MHz-6000MHz

Modulation: 1 KHz 80% AM

Performance Criterion Require: A

Block diagram of Test setup



5.2.2 Test Equipment

Please refer to Section 2 this report.

5.2.3 Test specification:

Environmental conditions: Temperature: 21° C Humidity: 54% Atmospheric pressure: 103kPa

5.2.4 Operation mode: Working

5.2.5 Test Result:

Please refer to the following table for individual results.

Frequency (MHz)	Radiation to	Polarity	Level (V/m)	Dwell Time(s)	Sweep Rate (%)	Results
80-1000	Front	Horizontal	3	3	1	Pass
80-1000	Rear	Horizontal	3	3	1	Pass
80-1000	Left	Horizontal	3	3	1	Pass
80-1000	Right	Horizontal	3	3	1	Pass
80-1000	Front	Vertical	3	3	1	Pass
80-1000	Rear	Vertical	3	3	1	Pass
80-1000	Left	Vertical	3	3	1	Pass
80-1000	Right	Vertical	3	3	1	Pass

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Frequency (MHz)	Radiation to	Polarity	Level (V/m)	Dwell Time(s)	Sweep Rate (%)	Results
1400-2000	Front	Horizontal	3	3	1	Pass
1400-2000	Rear	Horizontal	3	3	1	Pass
1400-2000	Left	Horizontal	3	3	1	Pass
1400-2000	Right	Horizontal	3	3	1	Pass
1400-2000	Front	Vertical	3	3	1	Pass
1400-2000	Rear	Vertical	3	3	1	Pass
1400-2000	Left	Vertical	3	3	1	Pass
1400-2000	Right	Vertical	3	3	1	Pass

Frequency (MHz)	Radiation to	Polarity	Level (V/m)	Dwell Time(s)	Sweep Rate (%)	Results
2000-6000	Front	Horizontal	3	3	1	Pass
2000-6000	Rear	Horizontal	3	3	1	Pass
2000-6000	Left	Horizontal	3	3	1	Pass
2000-6000	Right	Horizontal	3	3	1	Pass
2000-6000	Front	Vertical	3	3	1	Pass
2000-6000	Rear	Vertical	3	3	1	Pass
2000-6000	Left	Vertical	3	3	1	Pass
2000-6000	Right	Vertical	3	3	1	Pass

5.3 Electrical Fast Transient/Burst (EFT/B) immunity test

5.3.1 Schematics of the test



EUT: Equipment Under Test

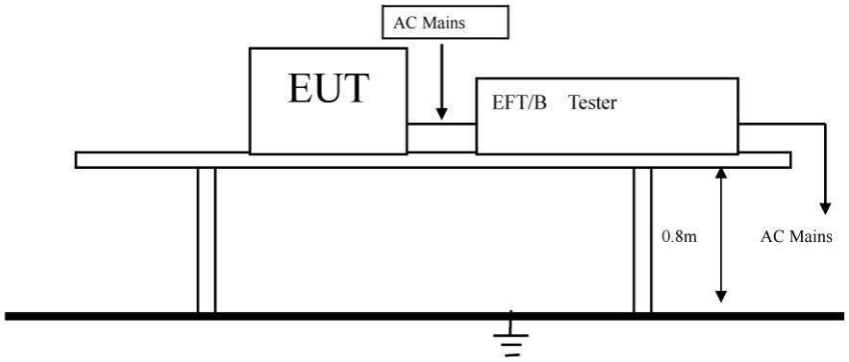
5.3.2 Test Method

The test was performed in accordance with EN 61000-4-4

Severity: Level 3 (2kV)

Performance Criterion Require: **B**

Block diagram of Test setup



5.3.3 Test Equipment

Please refer to Section 2 this report.

5.3.4 Test specification:

Environmental conditions: Temperature: 21° C Humidity: 54% Atmospheric pressure: 103kPa

5.3.5 Operation mode: Working

5.3.6 Test Results

Inject location: AC mains

Inject Line	Voltage kV	Inject Times (s)	Method	Results
L	±1	120	Direct	N/A
N	±1	120	Direct	N/A
L、N	±1	120	Direct	N/A
E	±1	120	Direct	N/A
L、E	±1	120	Direct	N/A
N、E	±1	120	Direct	N/A
L、N、E	±1	120	Direct	N/A

5.4 Surge test

5.4.1 Schematics of the test



EUT: Equipment Under Test

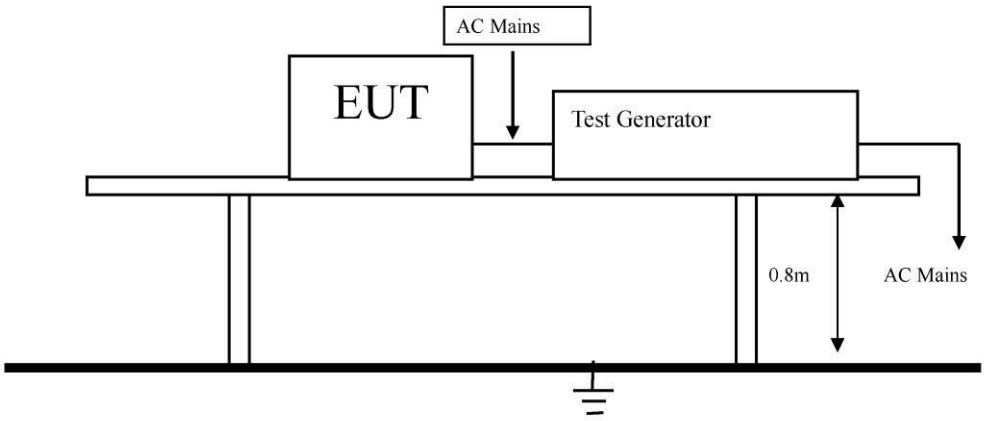
5.4.2 Test Method:

The test was performed in accordance with EN 61000-4-5

Severity: Level 2

Performance Criterion Require: B

Block diagram of Test setup



5.4.3 Test Equipment

Please refer to Section 2 this report.

5.4.4 Test specification:

Environmental conditions: Temperature: 21° C Humidity: 54% Atmospheric pressure: 103kPa

5.4.5 Operation mode: Working

5.4.6 Test Results

5 pulses for each polarity and test voltage, and repetition rate is 1 per min.

Location	Polarity	0°	90°	180°	270°	Results
L-N	±0.5 KV	n.r.r.	n.r.r.	n.r.r.	n.r.r.	N/A
L-PE	±1 KV	n.r.r.	n.r.r.	n.r.r.	n.r.r.	N/A
N-PE	±1 KV	n.r.r.	n.r.r.	n.r.r.	n.r.r.	N/A

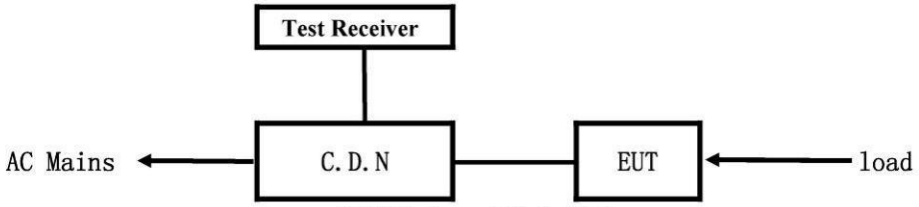
Remark: 1) n.r.r. = no reaction recognized, N/A = not applicable.

2) Performance Criteria A Observed.

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5.5 Conducted Immunity test

5.5.1 Schematics of the test



EUT: Equipment Under Test

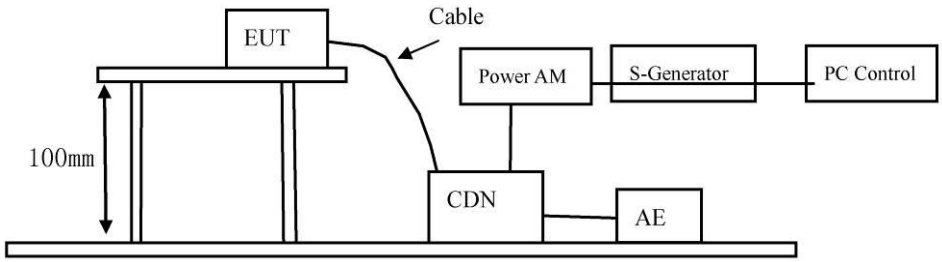
5.5.2 Test Method

The test was performed in accordance with EN 61000-4-6

Severity: Level 2 (3 V rms),0.15MHz—80MHz

Performance Criterion Require: A

Block diagram of Test setup



5.5.3 Test Equipment

Please refer to Section 2 this report.

5.5.4 Test specification:

Environmental conditions: Temperature: 21° C Humidity: 54% Atmospheric pressure: 103kPa

5.5.5 Operation mode: Working

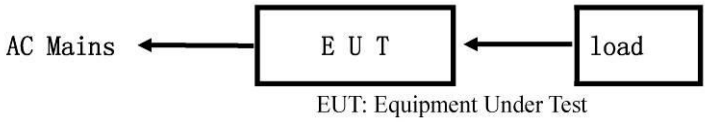
5.5.4 Test Results:

Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 - 80	AC Line	3V (rms) Unmodulated	A	N/A

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5.6 Power-Frequency magnetic field test

5.6.1 Schematics of the test



EUT: Equipment Under Test

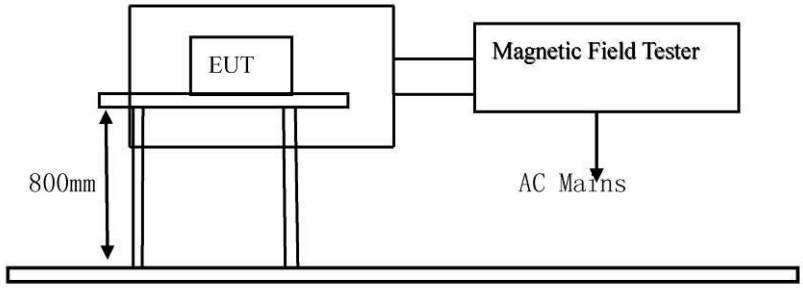
5.6.2 Test Method

The test was performed in accordance with EN 61000-4-8

Severity: Level 4 (30A/m),

Performance Criterion Require: A

Block diagram of Test setup



5.6.3 Test Equipment

Please refer to Section 2 this report.

5.6.4 Test specification:

Environmental conditions: Temperature: 21° C Humidity: 54% Atmospheric pressure: 103kPa

5.6.5 Operation mode: Working

5.6.6 Test Results:

Test Level	Testing Duration	Coil Orientation	Criterion	Result
50 Hz				
3A/m	5 Mins	X	A	Pass
3A/m	5 Mins	Y	A	Pass
3A/m	5 Mins	Z	A	Pass

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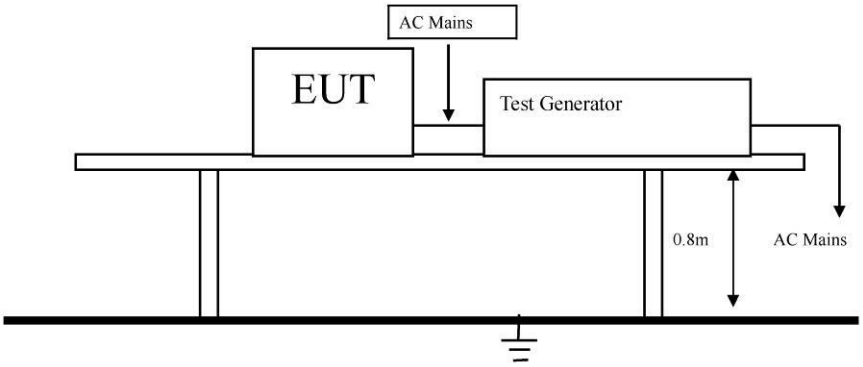
5.7 Voltage Dips/Interruptions immunity test

5.7.1 Test Method:

The test was performed in accordance with EN 61000-4-11:2004

Performance Criterion Require: C&B

Block diagram of Test setup



5.7.2 Test Equipment

Please refer to Section 2 this report.

5.7.3 Test specification:

Environmental conditions: Temperature: 21° C Humidity: 54% Atmospheric pressure: 103kPa

5.7.4 Operation mode: Working

5.7.5 Test Result:

Test Level % Ut	Reduction	Duration (periods)	Phase Angle	Meet Criterion	Result
50 Hz					
0	100	1	0° - 360°	B	N/A
40	60	10	0° - 360°	C	N/A
70	30	25	0° - 360°	C	N/A
0	100	250	0° - 360°	C	N/A
60 Hz					
0	100	1	0° - 360°	B	N/A
40	60	12	0° - 360°	C	N/A
70	30	30	0° - 360°	C	N/A
0	100	300	0° - 360°	C	N/A

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6.0 CE Label

6.1 label specification

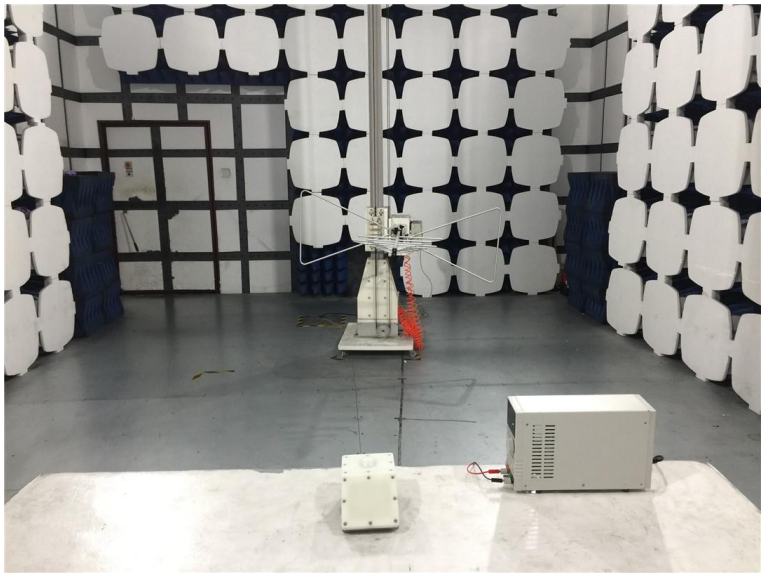
Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.

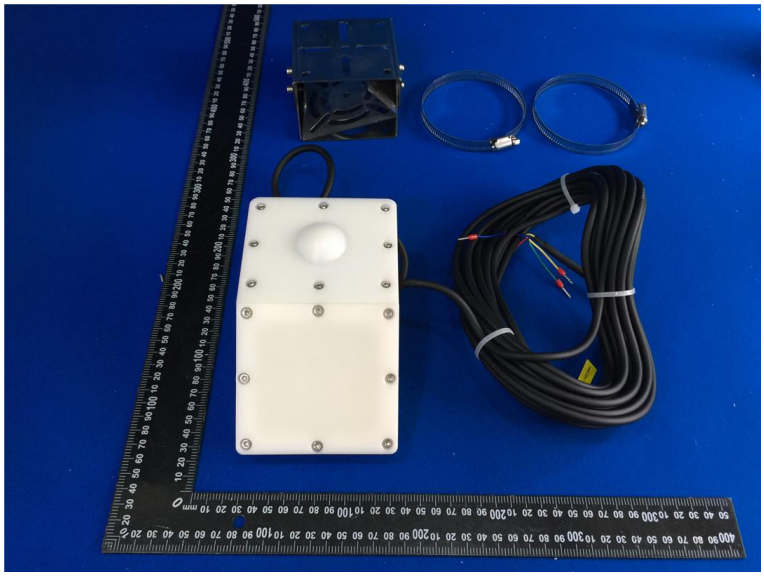


6.2 Mark Location: On the product body

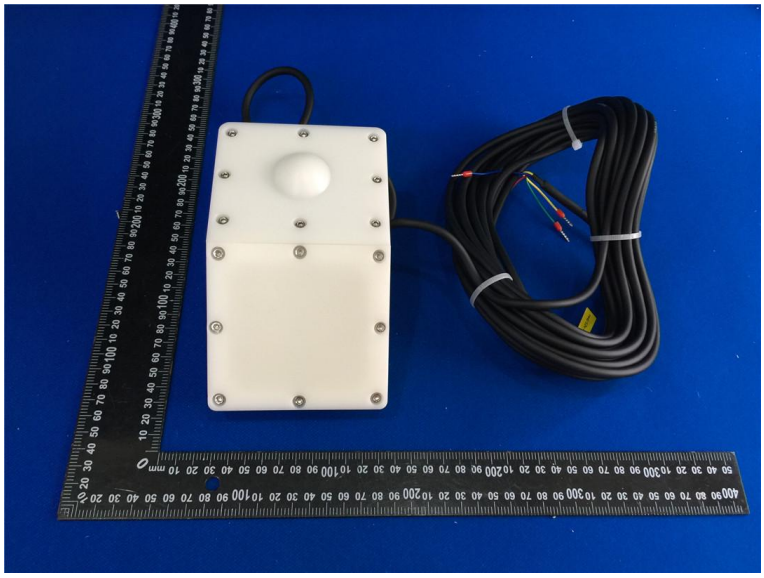
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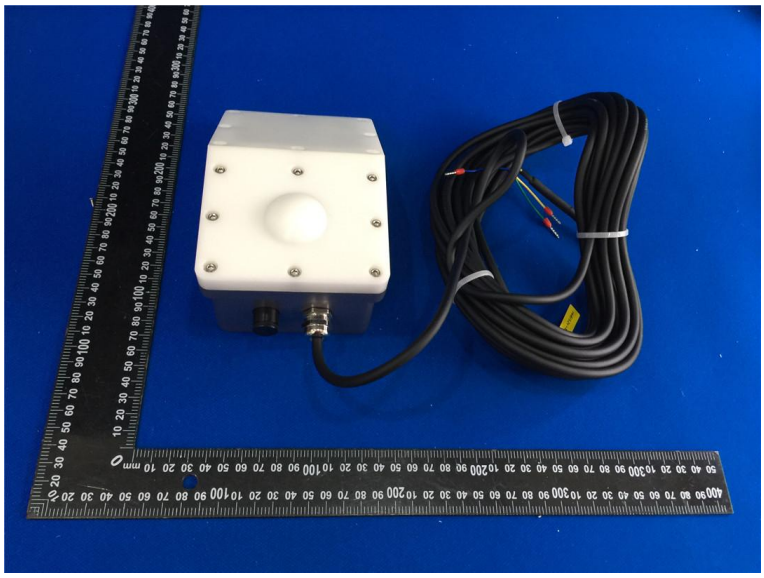
7.0 Photos of the EUT



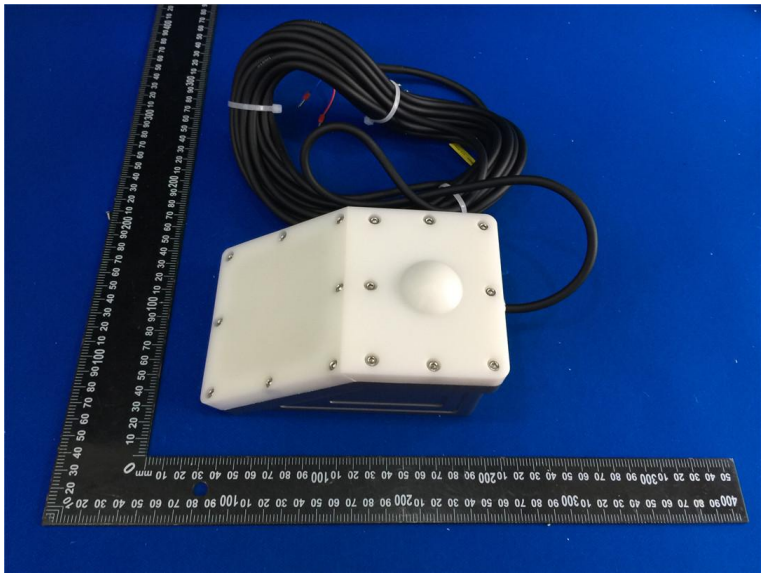


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--End of the report--

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