TEST REPORT

Report Reference No. ..... : **HK2604270463-1ER**

Compiled by
(position+printed name+signature) . : Testing engineer Len Liao

Supervised by
(position+printed name+signature) . : Technique principal Sliver Wan

Approved by
(position+printed name+signature) . : Manager Jason Zhou

Date of issue ..... : 2026/06/29

Representative Laboratory Name .... : Shenzhen HUAK Testing Technology Co., Ltd.

Address ..... : 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Applicant's name ..... : EDA Technology Shanghai Co.,Ltd

Address ..... : Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Test specification:

Standard ..... : **ETSI EN 301 489-1 V2.2.3 (2019-11)/ ETSI EN 301 489-17 V3.3.1 (2024-09)/ EN 55032:2015 + A1:2020 + A11:2020/ EN 55035:2017 + A11:2020/ EN IEC 61000-3-2:2019 + A1:2021 + A2:2024/ EN 61000-3-3:2013 + A1:2019 + A2:2021**

TRF Originator ..... : Shenzhen HUAK Testing Technology Co., Ltd.

Master TRF ..... : Dated 2019-07

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Product Name..... : ED-IPC3020E

Trade Mark..... : EDATEC

Product Model..... : ED-IPC3020E

Series Model ..... : N/A

Hardware Version ..... : V2.0

Software Version..... : V1.0

Rating..... : DC 5.1V From Adapter

Result..... : **PASS**

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TEST REPORT

Test Report No. :	HK2604270463-1ER	2026/06/29 Date of issue

Product Name	:	ED-IPC3020E
Product Model	:	ED-IPC3020E
Series Model	:	N/A
Applicant	:	EDA Technology Shanghai Co.,Ltd
Address	:	Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC
Manufacturer	:	EDA Technology Shanghai Co.,Ltd
Address	:	Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Test Result according to the standards on page 5:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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** Issued History **

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	2026/06/29	Jason Zhou

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1. TEST STANDARDS

The tests were performed according to following standards:

ETSI EN 301 489-1 V2.2.3 (2019-11)
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU

ETSI EN 301 489-17 V3.3.1 (2024-09)
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility

EN 55032:2015 + A1:2020 + A11:2020 Electromagnetic compatibility of multimedia equipment – Emission Requirements

EN 55035:2017 + A11:2020 Electromagnetic compatibility of multimedia equipment – Immunity requirements

EN IEC 61000-3-2:2019 + A1:2021 + A2:2024
Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)

EN 61000-3-3: 2013 + A1:2019 + A2:2021
Electromagnetic compatibility(EMC)-Part 3-3:Limits-Limitation ofvoltage changes, voltage fluctuations and flicker in public low-voltage supply systems,for equipment with rated ≤16 A perphase and not subject to conditional connection

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2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	2026/04/27
Testing commenced on	:	2026/04/27
Testing concluded on	:	2026/06/29

2.2. Product Description

Product Name	ED-IPC3020E
Product Model	ED-IPC3020E
Series Mode	N/A
Difference descrption	N/A
Hardware version	V2.0
Software version	V1.0
Antenna Type	External Antenna

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2.3. Equipment under Test

Power supply system utilised

Power supply voltage	:	○	120V / 60 Hz	○	115V / 60Hz
		○	12 V DC	○	24 V DC
		●	Other (specified in blank below)		

DC 5.1V From Adapter

2.4. Short description of the Equipment under Test (EUT)

For details, refer to the user's manual of EUT.

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2.5. EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

Test Item	
EMI	
Mode 1	Working
EMS	
Mode 1	Working

2.6. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - Supplied by the lab

○	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/

●Adapter information
Input: 100-240V~, 50/60Hz 0.8A
Output: 5.1V⎓5.0A 25.5W, 9.0V⎓3.0A 27.0W, 12.0V⎓2.25A 27.0W, 15.0V⎓1.8A 27.0W
Model: 27W USB-C Power Supply EU

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2.7. Performance level

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test relative to a performance criteria defined by its manufacturer or the requestor of the test, or agreed between the manufacturer and the purchaser of the product. Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

— essential operational modes and states;
— tests of all peripheral access(hard disks, floppy disks, printers, keyboard, mouse, etc.);
— quality of software execution
— quality of data display and transmission
— quality of speech transmission

General performance criteria

● based on the used product standard
○ based on the declaration of the manufacturer, requestor or purchaser

● performance criteria A for immunity tests with phenomena of a continuous nature;
● performance criteria B for immunity tests with phenomena of a transient nature;
● performance criteria C for immunity tests with power interruptions exceeding a certain time. The equipment shall meet the minimum performance criteria as specified in the following clauses.

Performance table

Table 1: Performance criteria

Criteria	During test	After test
A	Shall operate as intended. May show degradation of performance (see note 1). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance (see note 2). Shall be no loss of function. Shall be no loss of stored data or user programmable functions.
B	May show loss of function (one or more). May show degradation of performance (see note 1). No unintentional transmissions.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). Shall be no loss of stored data or user programmable functions.
C	May be loss of function (one or more).	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2).
NOTE 1:	Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.	
NOTE 2:	No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.	

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Performance criteria for Continuous phenomena applied to Transmitters (CT)

The performance criteria A shall apply.
Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an ACKnowledgement (ACK) or Not ACKnowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied to Transmitters (TT)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply.
Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Continuous phenomena applied to Receivers (CR)

The performance criteria A shall apply.
Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied to Receivers (TR)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply.
Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

2.8. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST ENVIRONMENT

3.1. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35°C
Humidity:	30-60%
Atmospheric pressure:	950-1050mbar

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3.3. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

Mode 1:

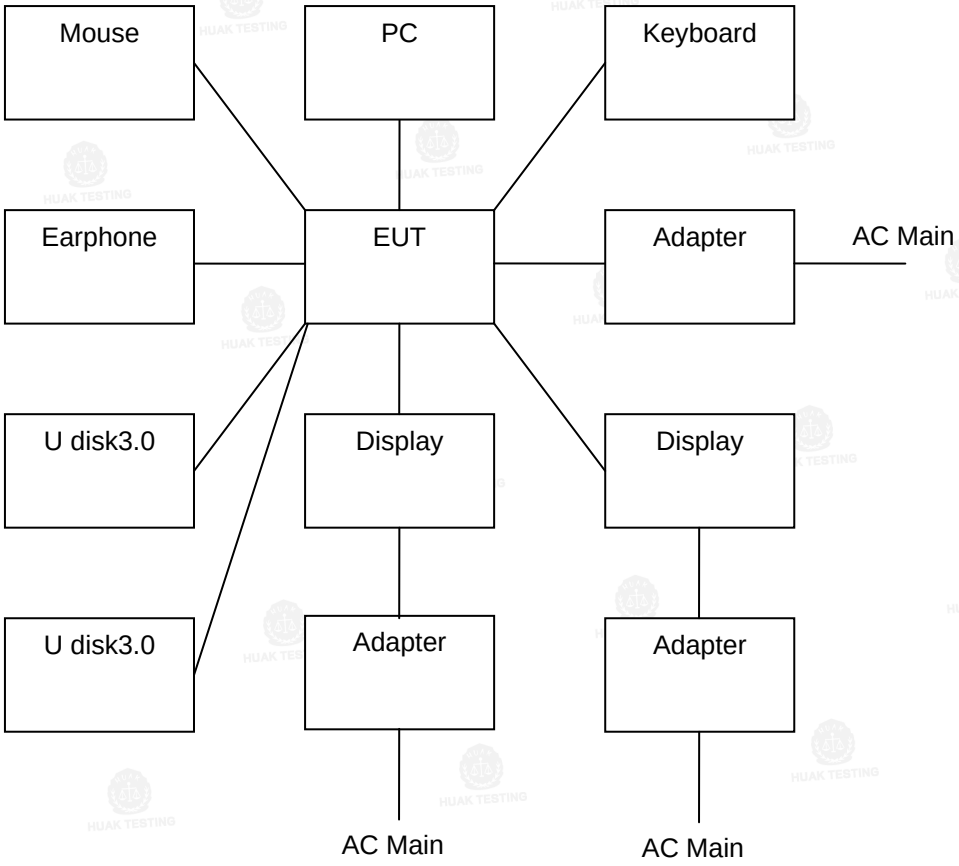


Table 2-1 Equipment Used in Tested System

No.	Product	Manufacture	Model No.	FCC ID
1	Keyboard	N/A	N/A	/
2	PC	Lenovo	ThinkPad E14 Gen5	/
3	Mouse	N/A	N/A	/
4	Earphone	N/A	N/A	/
5	Display	AOC	U2879VF	/
6	Adapter	AOC	ADPC2065	/
7	Display	PHILIPS	279E1	/
8	Adapter	PHILIPS	ADPC2065	/
9	U disk3.0	N/A	N/A	/
10	U disk3.0	N/A	N/A	/

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3.4. Test Description

ETSI EN 301 489-1/-17 requirements		
Radiated Emission	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN 55032:2015 + A1:2020 + A11:2020 Annex A.2	PASS
Conducted Emission(AC Mains)	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN 55032:2015 + A1:2020 + A11:2020 Annex A.3	PASS
Conducted Emission(Telecommunication Ports)	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN 55032:2015 + A1:2020 + A11:2020 Annex A.3	PASS
Harmonic Current Emissions	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN IEC 61000-3-2:2019 + A1:2021 + A2:2024	N/A
Voltage Fluctuations and Flicker	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN 61000-3-3:2013 + A1:2019 + A2:2021	PASS
Electrostatic Discharge	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
RF Electromagnetic Field	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
Fast Transients Common Mode	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
RF Common Mode 0,15 MHz to 80 MHz	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
Transients and Surges	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	N/A
Voltage Dips and Interruptions	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
Surges, Line to Line and Line to Ground	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS

Remark: The measurement uncertainty is not included in the test result.

NOTE:
Equipment meeting Class A requirements may not offer adequate protection to broadcast services within a residential environment.

3.5. 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 Shenzhen HUAK Testing Technology Co., Ltd. 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.

Hereafter the best measurement capability for Shenzhen HUAK Testing Technology Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.60dB	(1)
Radiated Emission	1~18GHz	3.86dB	(1)
Conducted Disturbance	0.15~30MHz	2.22dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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3.6. Equipments Used during the Test

CONDUCTED EMISSION

Item	Test Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Cal. Due
1	LISN	R&S	ENV216	HKE-002	2026.02.11	2027.02.10
2	LISN	R&S	ENV216	HKE-059	2026.02.04	2027.02.03
3	EMI Test Receiver	R&S	ESR-7	HKE-005	2026.02.06	2027.02.05
4	ISN	ETC	08-06-BAC-022-02	HKE-062	2026.02.06	2027.02.05
5	Conducted test software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/

RADIATED TEST SITE

Item	Test Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Cal. Due
1	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	2026.02.06	2028.02.05
2	Horn antenna	Schwarzbeck	9120D	HKE-013	2026.02.06	2028.02.05
3	EMI Test Receiver	R&S	ESR-7	HKE-010	2026.02.06	2027.02.05
4	Spectrum Analyzer	Agilent	N9020A	HKE-048	2026.02.06	2027.02.05
5	Amplifier	Schwarzbeck	EMC051845SE	HKE-006	2026.02.06	2027.02.05
6	Amplifier	Agilent	83051A	HKE-016	2026.02.04	2027.02.03
7	Radiated test software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/

HARMONICS AND FILCK

Item	Test Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Cal. Due
1	Harmonic flicker tester	emtest	DPA 500N	HKE-037	2026.02.06	2027.02.05

ESD

Item	Test Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Cal. Due
1	ESD device	TESEQ	NSG437	HKE-023	2026.02.03	2027.02.02

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RS

Item	Test Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Cal. Due
1	Power amplifier	micotop	MPA-80-1000-250	HKE-142	2026.02.11	2027.02.10
2	Power amplifier	micotop	MPA-1000-6000-100	HKE-143	2026.02.06	2027.02.05
3	Power Meter	KEYSIGHT	E4419B	HKE-144	2026.02.06	2027.02.05
4	Vector signal generator	KEYSIGHT	N5182B	HKE-124	2026.02.04	2027.02.03
5	Field strength probe	NARDA	EP601	HKE-146	2026.02.06	2027.02.05
6	High gain antenna	Schwarzbeck	STPL9129	HKE-147	/	/
7	RS test software	Tonscend	JS35-RS 5.0.0	HKE-186	/	/

SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

Item	Test Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Cal. Due
1	Full-featured immunity tester	TESEQ	NSG3060	HKE-017	2026.02.04	2027.02.03
2	Pulse coupling clamp	TESEQ	CDN 8014	HKE-024	2026.02.04	2027.02.03

INJECTION CURRENT

Item	Test Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Cal. Due
1	Magnetic clamp	TESEQ	EML-20	HKE-114	2026.02.04	2027.02.03
2	Integrated Conduction Sensitivity Test System	FRANKONIA	CCIT-10	HKE-033	2026.02.04	2027.02.03
3	Coupling decoupling network	TESEQ	CDM316	HKE-032	2026.02.04	2027.02.03

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4. TEST CONDITIONS AND RESULTS

4.1. REQUIREMENTS

4.1.1. Radiated Emission

LIMIT

Please refer to ETSI EN 301 489-1 Clause 8.2.3

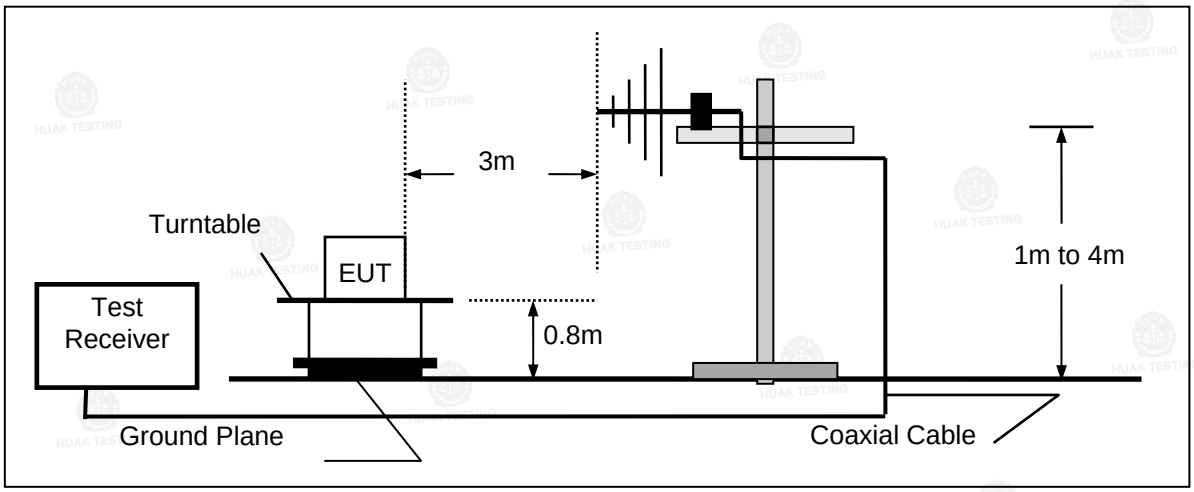
The ancillary equipment shall meet the class B limits given in CENELEC EN 55032 [1], annex A tables A.4 and A.5.

Alternatively, for ancillary equipment intended to be used exclusively in an industrial environment or telecommunication centers, the class A limits given in CENELEC EN 55032 [1], annex A tables A.2 and A.3 may be used.

If EUT is also a FM Receiver, it shall meet CENELEC EN 55032 [3], annex A tables A.6

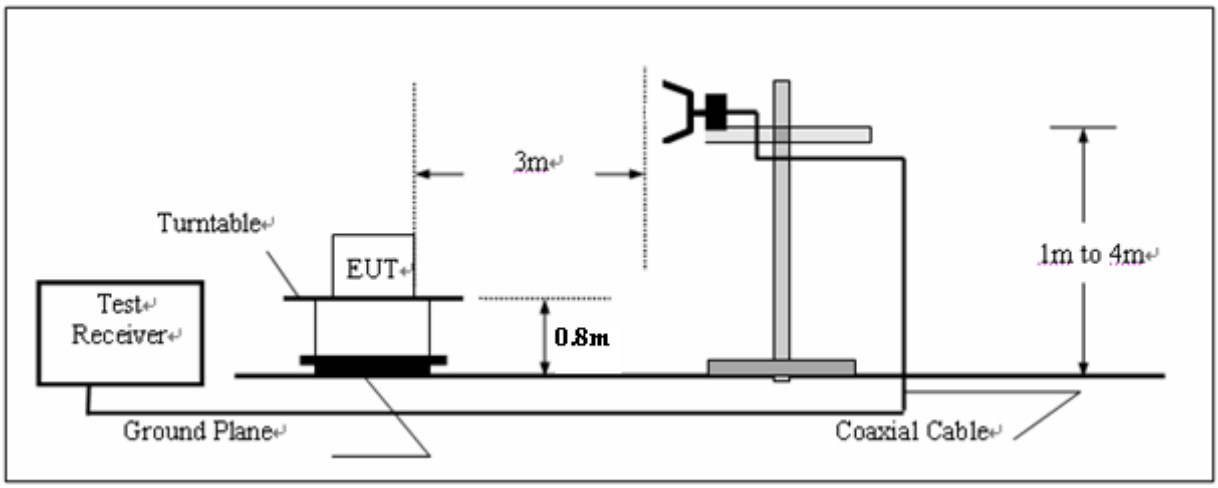
TEST CONFIGURATION

(a) Radiated Emission Test Set-Up, Frequency below 1000MHz



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(b) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 8.2.2 and The test method shall be in accordance with CENELEC EN 55032 [1], annex A.2. for the measurement methods.

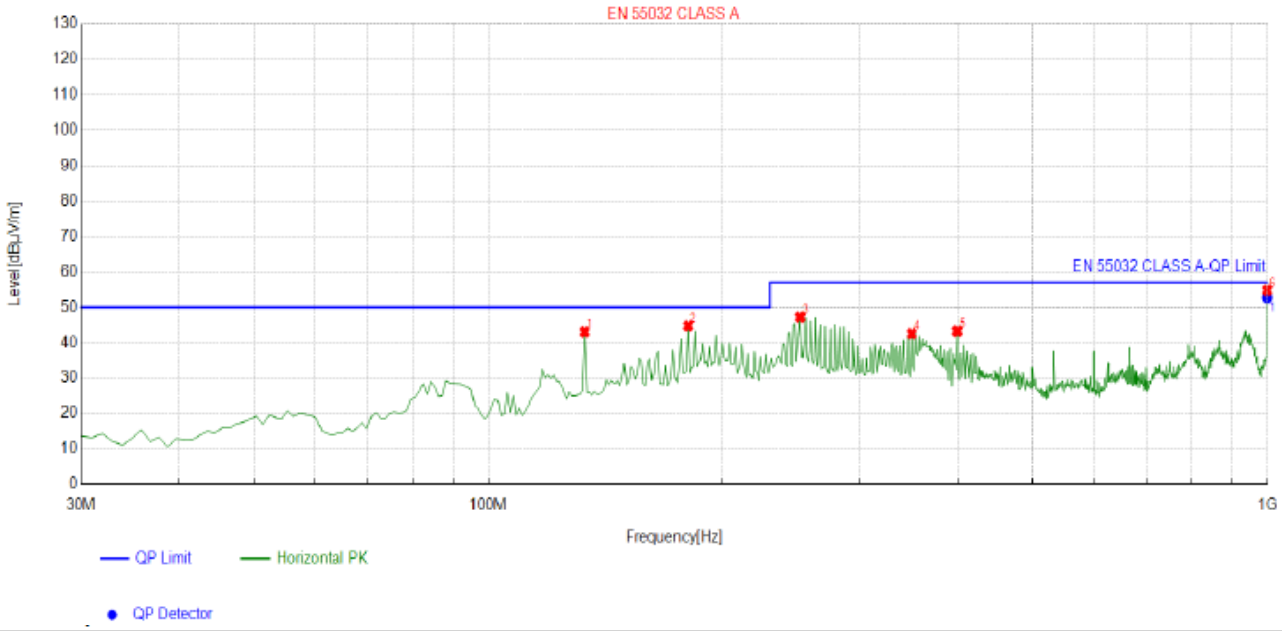
Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

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TEST RESULTS

Below 1000MHz

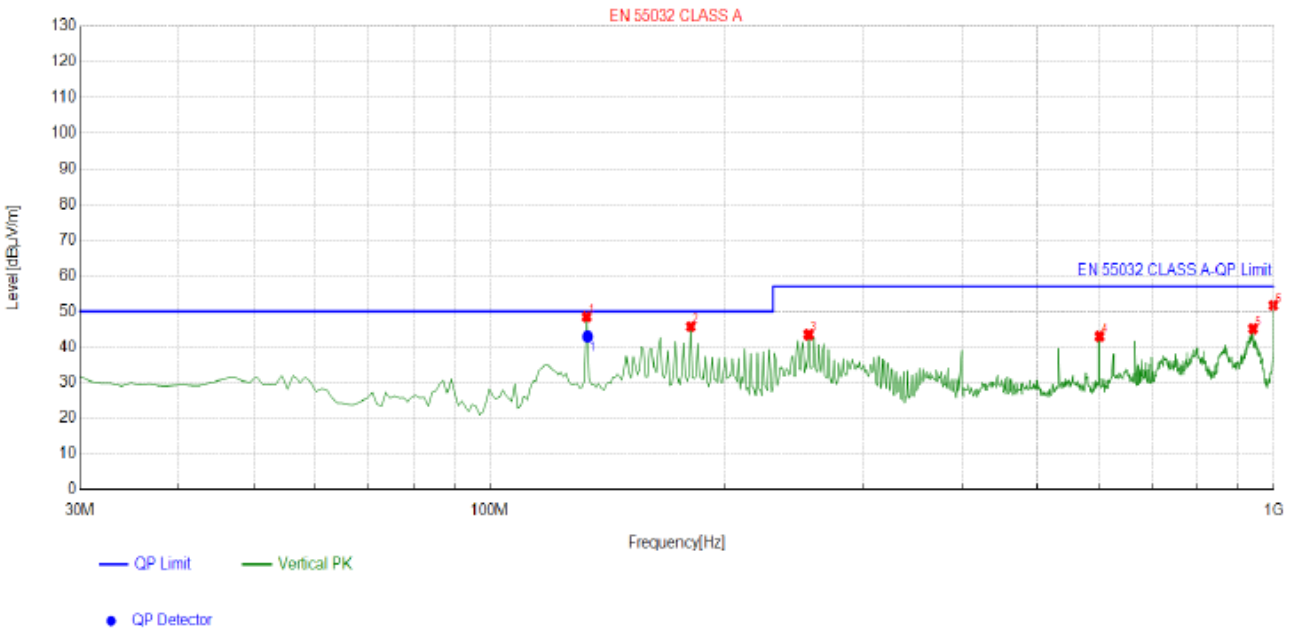


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	132.923	-20.22	63.25	43.03	50.00	6.97	100	64	Horizontal
2	180.501	-21.19	65.89	44.70	50.00	5.30	100	195	Horizontal
3	251.381	-20.88	68.08	47.20	57.00	9.80	100	16	Horizontal
4	349.449	-19.04	61.56	42.52	57.00	14.48	100	351	Horizontal
5	399.940	-18.34	61.58	43.24	57.00	13.76	100	301	Horizontal
6	999.029	-12.25	67.04	54.79	57.00	2.21	100	166	Horizontal

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	999.029	-12.25	65.02	52.77	57.00	4.23	100	166	Horizontal

Remark:
Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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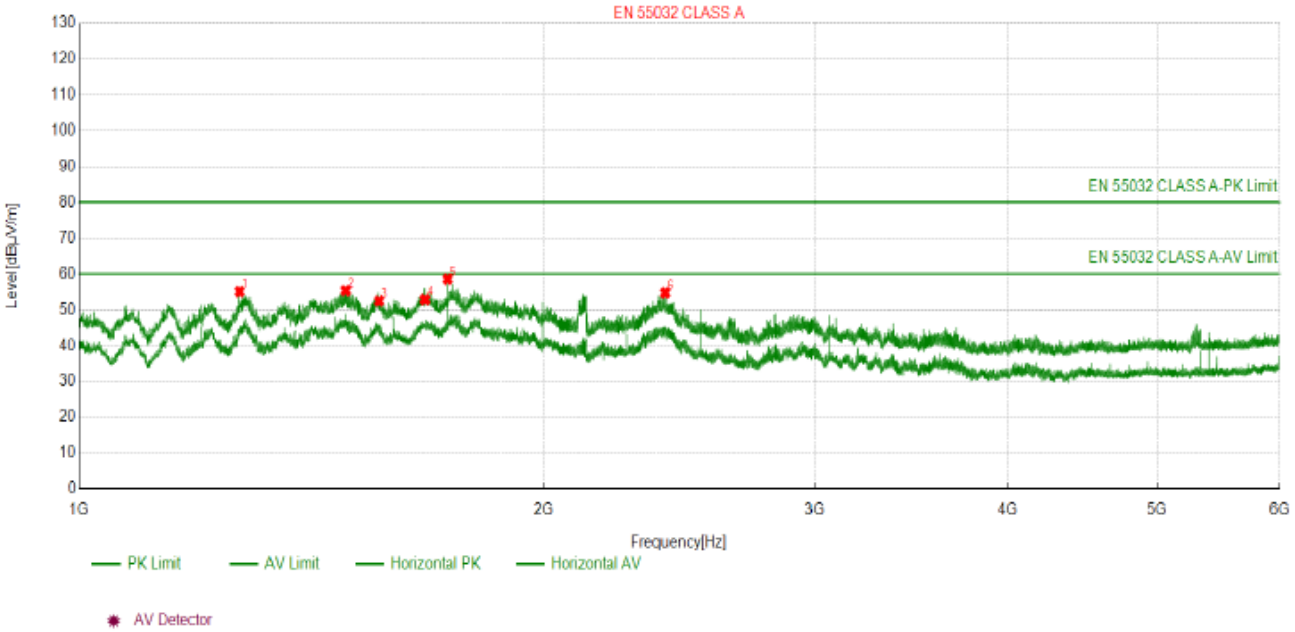
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	132.923	-20.22	68.66	48.44	50.00	1.56	100	111	Vertical
2	180.501	-21.19	66.87	45.68	50.00	4.32	100	327	Vertical
3	255.265	-20.83	64.31	43.48	57.00	13.52	100	18	Vertical
4	599.960	-15.47	58.44	42.97	57.00	14.03	100	344	Vertical
5	941.742	-12.34	57.42	45.08	57.00	11.92	100	43	Vertical
6	999.029	-12.25	63.91	51.66	57.00	5.34	100	16	Vertical

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	133.316	-20.22	63.14	42.92	50.00	7.08	100	111	Vertical

Remark:
Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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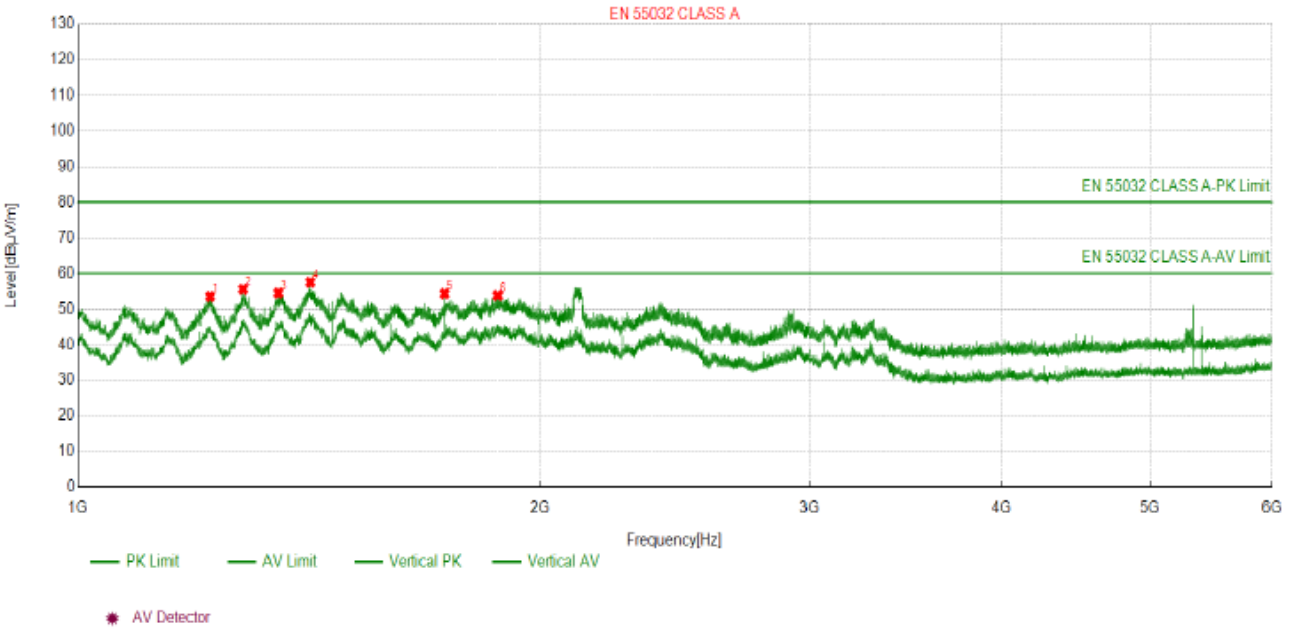
Radiated Emission From 1 GHz to 6 GHz



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	PK Level [dBµV/m]	Factor [dB]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1270.627	73.62	55.09	-18.53	80.00	24.91	100	76	Horizontal
2	1488.649	73.78	55.35	-18.43	80.00	24.65	100	34	Horizontal
3	1564.256	71.03	52.47	-18.56	80.00	27.53	100	24	Horizontal
4	1675.468	71.24	52.85	-18.39	80.00	27.15	100	8	Horizontal
5	1732.873	76.75	58.53	-18.22	80.00	21.47	100	70	Horizontal
6	2397.340	69.06	54.72	-14.34	80.00	25.28	100	1	Horizontal

Remark:
Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	PK Level [dBµV/m]	Factor [dB]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1218.822	72.28	53.51	-18.77	80.00	26.49	100	358	Vertical
2	1281.228	74.06	55.56	-18.50	80.00	24.44	100	19	Vertical
3	1350.035	72.71	54.49	-18.22	80.00	25.51	100	308	Vertical
4	1417.242	75.58	57.50	-18.08	80.00	22.50	100	9	Vertical
5	1733.073	72.52	54.30	-18.22	80.00	25.70	100	24	Vertical
6	1877.488	71.44	53.81	-17.63	80.00	26.19	100	355	Vertical

Remark:
Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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4.1.2. Conducted Emission (AC Mains)

LIMIT

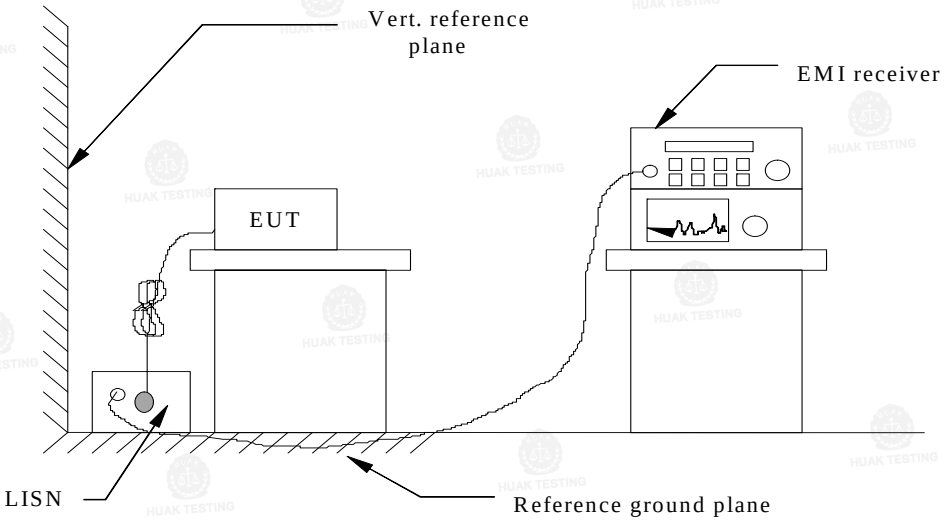
Please refer to ETSI EN 301 489-1 Clause 8.4.3

The equipment shall meet the class B limits given in CENELEC EN 55032 [1], annex A table A.10.

Alternatively, for equipment intended to be used in an industrial environment or a telecommunication centre, the class A limits given in CENELEC EN 55032 [1], annex A table A.9 can be used.

If EUT is also a FM Receiver, it shall meet CENELEC EN 55032 [3], annex A tables A.13

TEST CONFIGURATION



TEST PROCEDURE

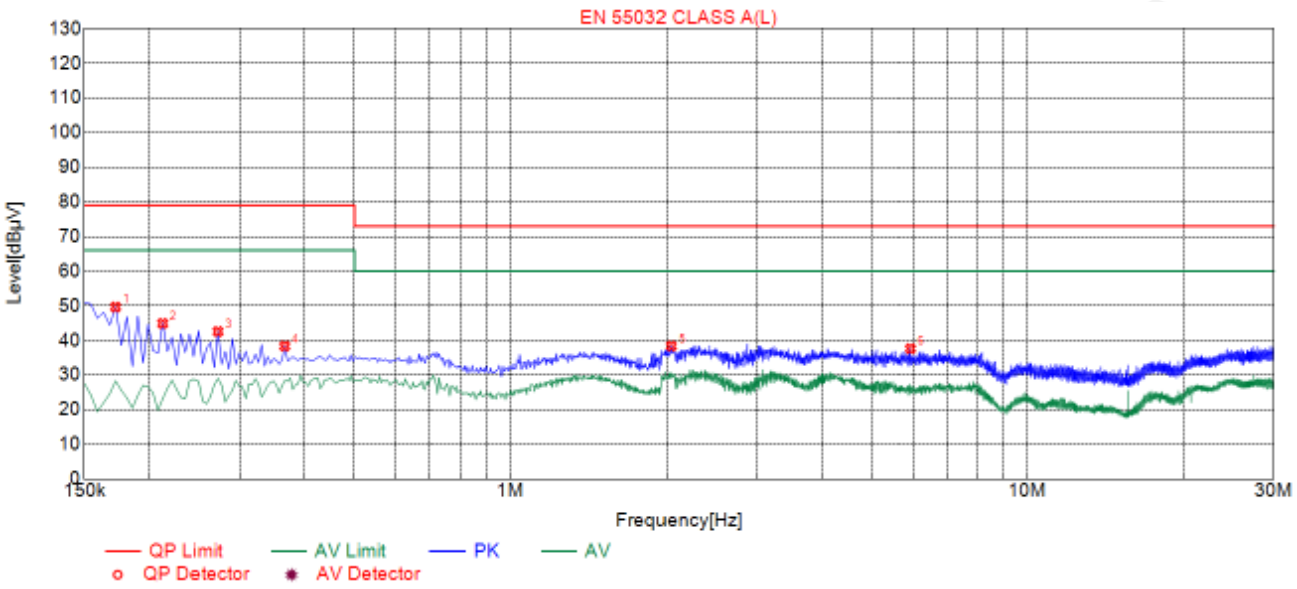
Please refer to ETSI EN 301 489-1 Clause 8.4.3 and EN 55032 Clause 5 for the measurement methods.

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

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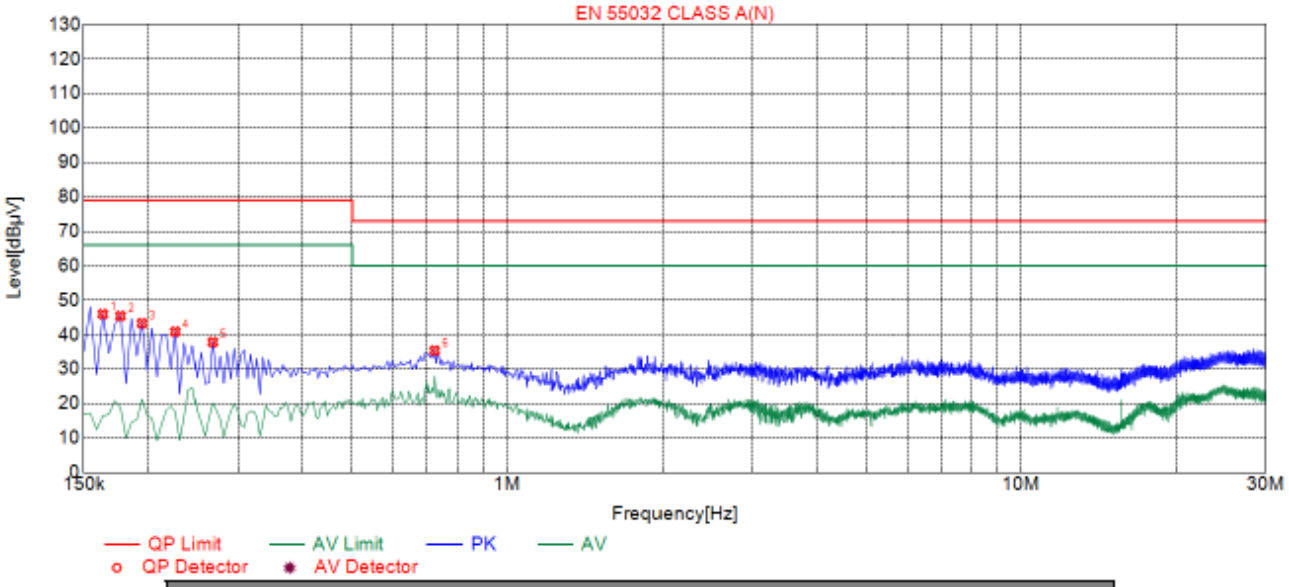
TEST RESULTS



Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.1725	49.64	19.81	79.00	29.36	29.83	PK	L
2	0.2130	44.92	19.75	79.00	34.08	25.17	PK	L
3	0.2715	42.57	19.77	79.00	36.43	22.80	PK	L
4	0.3660	38.35	19.81	79.00	40.65	18.54	PK	L
5	2.0445	38.37	20.07	73.00	34.63	18.30	PK	L
6	5.9325	37.63	20.27	73.00	35.37	17.36	PK	L

Remark: Margin = Limit – Level
Correction factor = Cable lose + LISN insertion loss
Level=Test receiver reading + correction factor

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Suspected List

NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.1635	45.98	19.90	79.00	33.02	26.08	PK	N
2	0.1770	45.44	19.84	79.00	33.56	25.60	PK	N
3	0.1950	43.31	19.77	79.00	35.69	23.54	PK	N
4	0.2265	40.88	19.77	79.00	38.12	21.11	PK	N
5	0.2670	37.84	19.79	79.00	41.16	18.05	PK	N
6	0.7215	35.39	19.95	73.00	37.61	15.44	PK	N

Remark: Margin = Limit – Level
Correction factor = Cable lose + LISN insertion loss
Level=Test receiver reading + correction factor

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4.1.3. Conducted Emission (Telecommunication Ports)

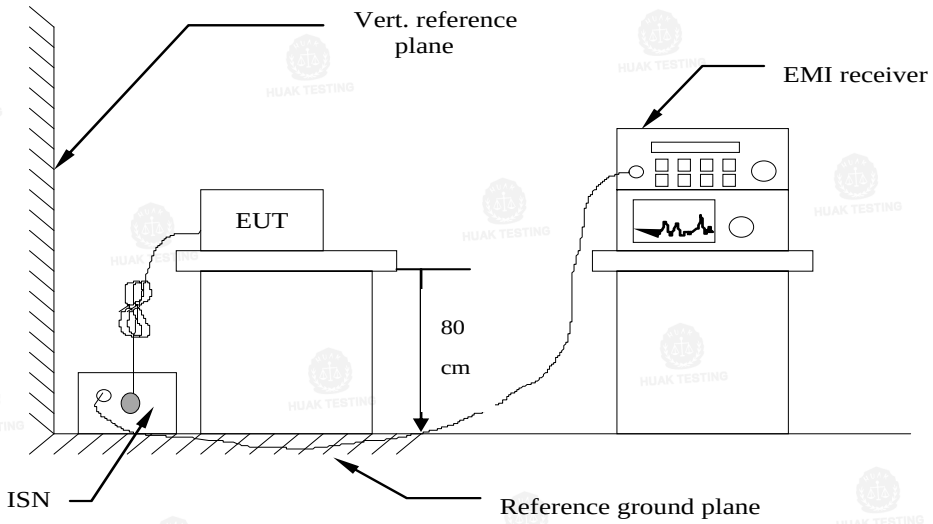
LIMIT

Please refer to ETSI EN 301 489-1 Clause 8.7.3

The wired network ports shall meet the class B limits given in CENELEC EN 55032 [1], annex A table A.12.

Alternatively, for equipment intended to be used exclusively in an industrial environment or a telecommunication centre, the class A limits given in CENELEC EN 55032 [1] annex A table A.11 can be used.

TEST CONFIGURATION



TEST PROCEDURE

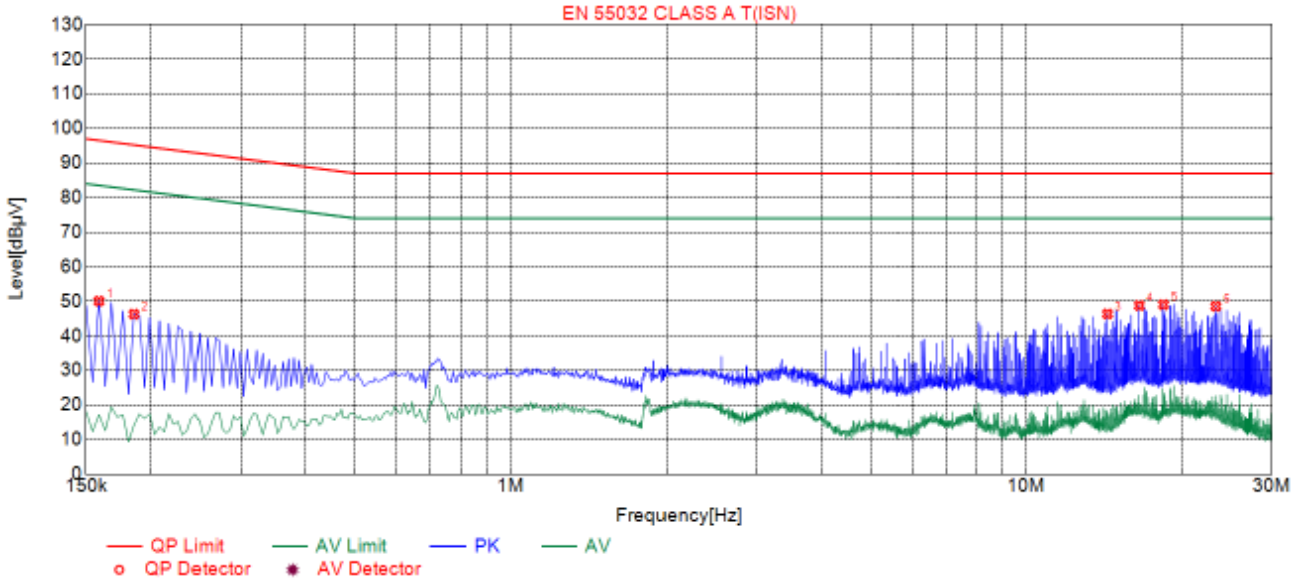
Please refer to ETSI EN 301 489-1 Clause 8.7.2 and The test method shall be in accordance with CENELEC EN 55032 [1], annex A.3. for the measurement methods.

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

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TEST RESULTS



Suspected List

NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.1590	50.06	19.88	96.52	46.46	30.18	PK	ISN
2	0.1860	46.29	19.88	95.21	48.92	26.41	PK	ISN
3	14.4105	46.34	19.95	87.00	40.66	26.39	PK	ISN
4	16.5480	48.76	19.96	87.00	38.24	28.80	PK	ISN
5	18.4425	49.03	19.97	87.00	37.97	29.06	PK	ISN
6	23.3295	48.55	20.01	87.00	38.45	28.54	PK	ISN

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

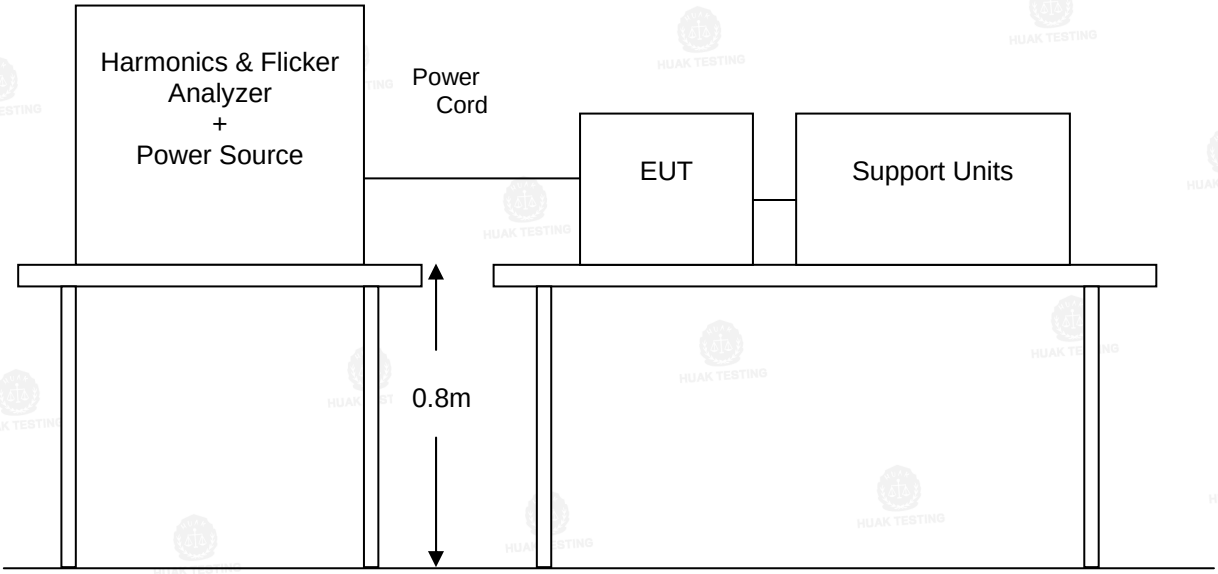
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4.1.4. Harmonic Current Emission

LIMIT

Please refer to EN IEC 61000-3-2

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN IEC 61000-3-2 for the measurement methods.

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

TEST RESULTS

Note: EUT power is less than 75W, so this test report is not applicable.

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4.1.5. Voltage Fluctuation and Flicker

LIMIT

Please refer to EN 61000-3-3

TEST CONFIGURATION

Same as the configuration of the Harmonic Current Emission.

TEST PROCEDURE

Please refer to EN 61000-3-3 for the measurement methods.

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

TEST RESULTS

Flicker Measurements					
	P_{lt}	Max P_{st}	Max D_c	Max D_{max}	Max T_{max}
Line 1:	0.012	0.028	0	< 0.2	0
Limits:	0.65	1	3.3	4	0.5
Results:	PASS	PASS	PASS	PASS	PASS



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4.1.6. Electrostatic Discharge

LIMIT

Please refer to EN IEC 61000-4-2

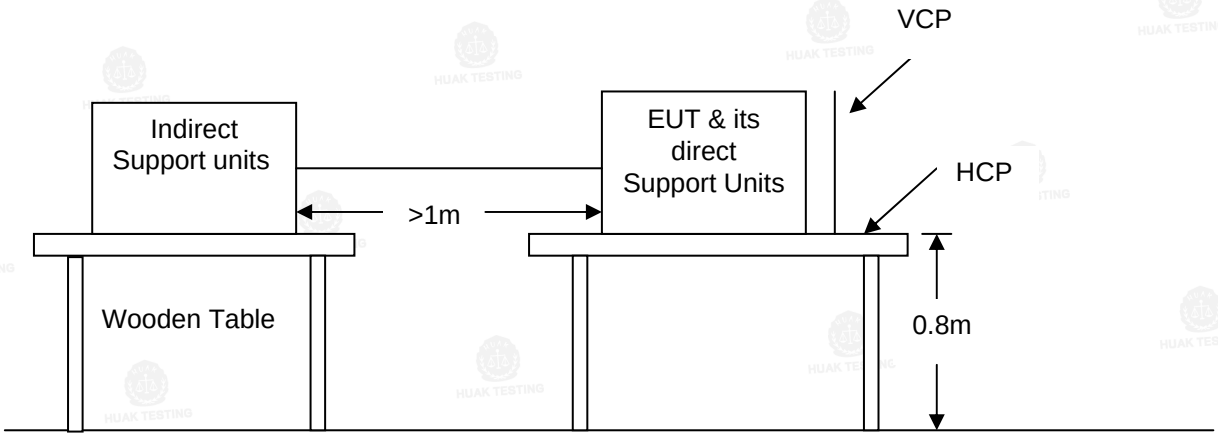
SEVERITY LEVELS OF ELECTROSTATIC DISCHARGE

Test level: Contact Discharge at ±2KV,±4KV Air Discharge at±2KV,±4KV,±8KV

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1	2	2
2	4	4
3	6	8
4	8	15
X	Special	Special

Performance criterion: **B**

Test Configuration



Ground Reference Plane

Test procedure

Please refer to ETSI EN 301 489-1 Clause 9.3.2 and EN IEC 61000-4-2 for the measurement methods.

If EUT is also a FM Receiver, it shall refer to EN 55020:2007/A11:2011 Clause 5.9 for the measurement methods.

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Test results

Contact Discharge:

The ESD generator is held perpendicular to the surface to which the discharge is applied and the tip of the discharge electrode touch the surface of EUT. Then turn the discharge switch. The generator is then re-triggered for a new single discharge and repeated at least 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

Air Discharge:

Air discharge is used where contact discharge can't be applied. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated at least 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Indirect discharge for horizontal coupling plane:

At least 10 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT.

Indirect discharge for vertical coupling plane:

At least 10 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

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TEST RESULTS

Mode	Air Discharge								Contact Discharge								Criterion	Result
Test level (kV)	4		8		10		15		2		4		6		8			
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
HCP									A	A	A	A					B	PASS
VCP									A	A	A	A						PASS
Metallic parts									A	A	A	A						PASS
enclosure	A	A	A	A														PASS
slot	A	A	A	A														PASS

Note:

1) +/- denotes the Positive/Negative polarity of the output voltage.
2) Test condition:
Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)
4) The Indirect (HCP/VCP) discharges description of test point as following:
1.left side 2.right side 3.front side 4.rear side
5) N/A - denotes test is not applicable in this test report

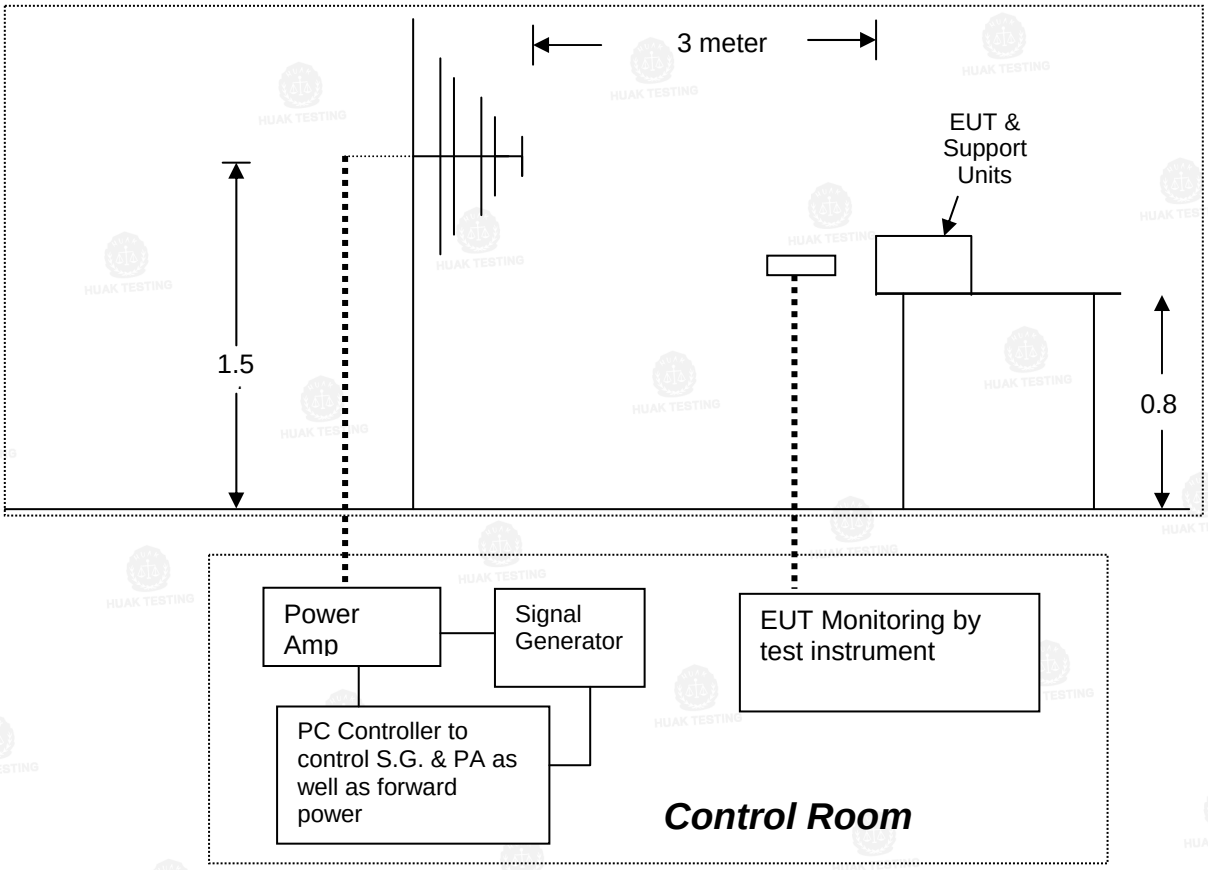
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4.1.7. RF Electromagnetic Field

LIMIT

Please refer to EN IEC 61000-4-3

Test Configuration



Test Levels of RF Electromagnetic Field

Test level: RF Field Strength: 3V/m

Level	RF Field Strength(V/m)
1	1
2	3
3	10
X	Special

Performance criterion: **A**

TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.2.2 and EN IEC 61000-4-3 for the measurement methods.

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Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

TEST RESULTS

	Freq. Range (MHz)	Field	Modulation	Polarity	Position	Mode	Result (Pass/Fail)
1	80-6000	3V/m	Yes	H / V	Front	Normal Operating	Pass
	1800(±1%), 2600(±1%), 3500(±1%), 5000(±1%)	3V/m	Yes	H / V	Front		Pass
2	80-6000	3V/m	Yes	H / V	Right	Normal Operating	Pass
	1800(±1%), 2600(±1%), 3500(±1%), 5000(±1%)	3V/m	Yes	H / V	Right		Pass
3	80-6000	3V/m	Yes	H / V	Back	Normal Operating	Pass
	1800(±1%), 2600(±1%), 3500(±1%), 5000(±1%)	3V/m	Yes	H / V	Back		Pass
4	80-6000	3V/m	Yes	H / V	Left	Normal Operating	Pass
	1800(±1%), 2600(±1%), 3500(±1%), 5000(±1%)	3V/m	Yes	H / V	Left		Pass

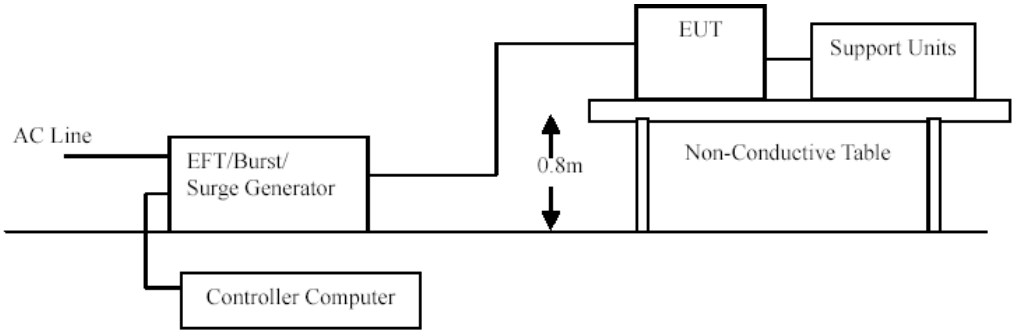
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAK Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

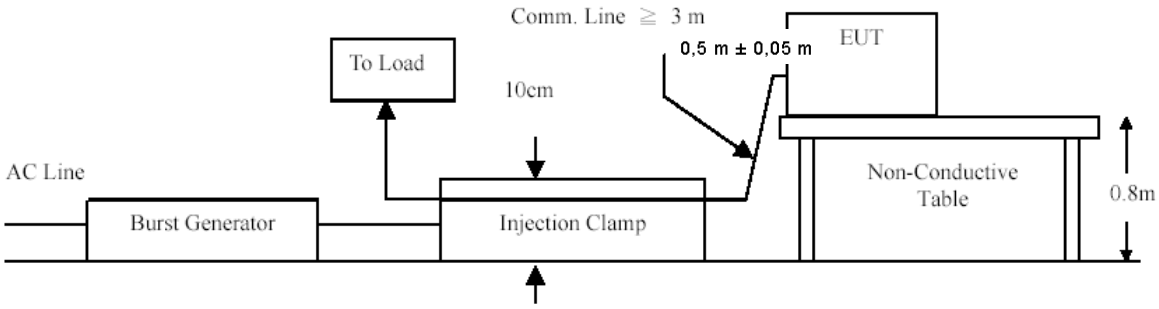
4.1.8. Fast Transients Common Mode

LIMIT

Please refer to EN 61000-4-4

TEST CONFIGURATION





TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.4.2 and EN 61000-4-4 for the measurement methods.

If EUT is also a FM Receiver, it shall refer to EN 55020:2007/A11:2011 Clause 5.6 for the measurement methods.

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

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TEST RESULTS

Coupling Line		Test level (kV)								Criterion	Result
		0.5		1		2		4			
		+	-	+	-	+	-	+	-		
AC line	L	A	A	A	A					B	PASS
	N	A	A	A	A						PASS
	PE										
	L+N	A	A	A	A						PASS
	L+PE										
	N+PE										
	L+N+PE										
DC Line											
Signal Line		A	A								PASS

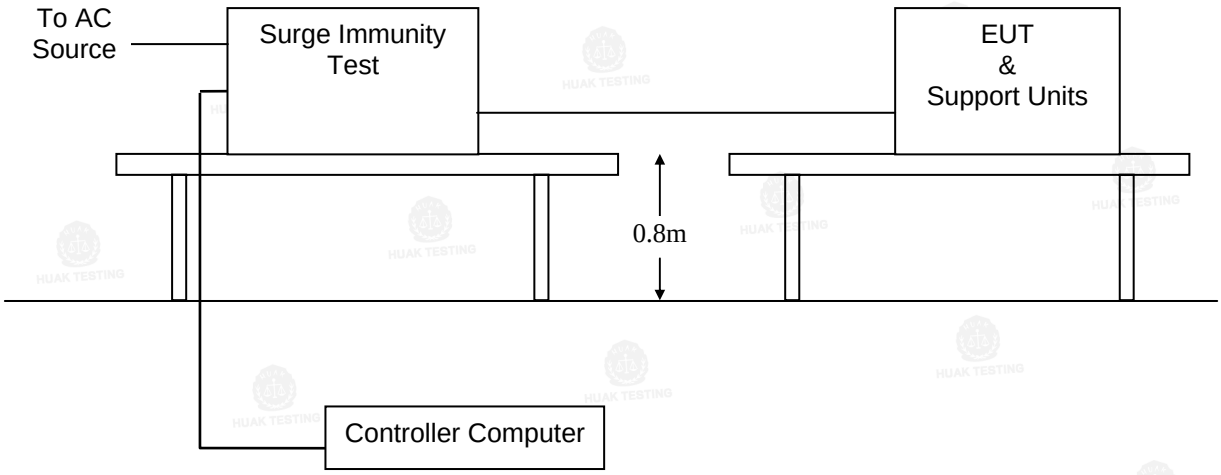
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4.1.9. Surges, Line to Line and Line to Ground

LIMIT

Please refer to EN 61000-4-5

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.4.2 and EN 61000-4-5 for the measurement methods.

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

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TEST RESULTS

Coupling Line			Test level								Criterion	Result
			0.5 kV		1 kV		2 kV		4 kV			
			+	-	+	-	+	-	+	-		
AC line	L-N	0°	A	A	A	A					B	PASS
		90°	A	A	A	A						
		180°	A	A	A	A						
		270°	A	A	A	A						
	L-PE	0°										
		90°										
		180°										
		270°										
	N-PE	0°										
		90°										
		180°										
		270°										
DC Line												
Signal Line			A	A								PASS

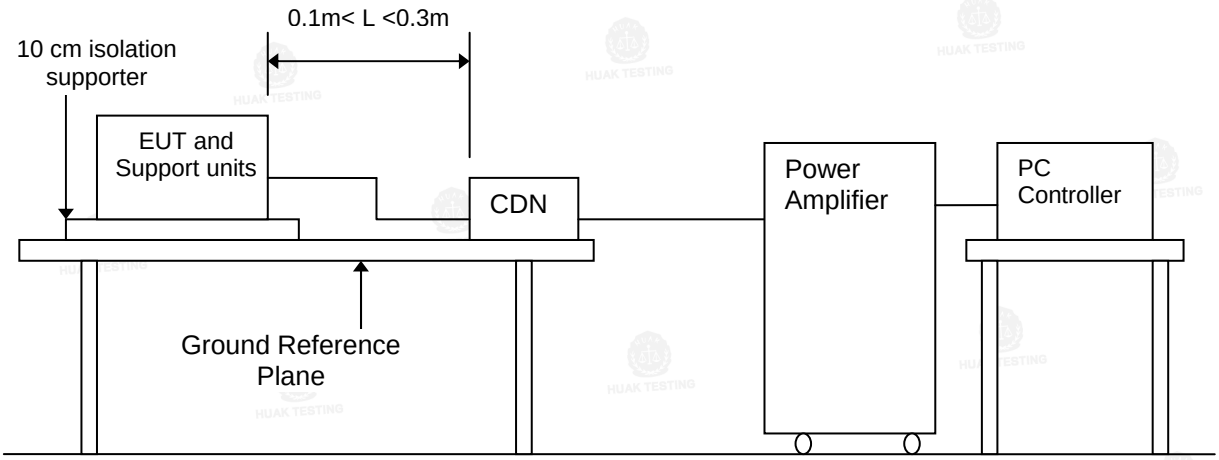
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4.1.10. RF- Common Mode 0.15MHz to 80MHz

LIMIT

Please refer to EN IEC 61000-4-6

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.5.2 and EN IEC 61000-4-6 for the measurement methods.

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

TEST RESULTS

Test Ports (Mode)	Freq. Range MHz)	Field Strength	Perform. Criteria	Results	Judgment
Input/ Output AC. Power Port	0.15 ---80	3V(rms) AM Modulated 1000Hz, 80%	**A**	**A**	**PASS**
Input/ Output DC. Power Port	0.15 --- 80		**A**	**N/A**	**N/A**
Signal Line	0.15 --- 80		**A**	**A**	**PASS**

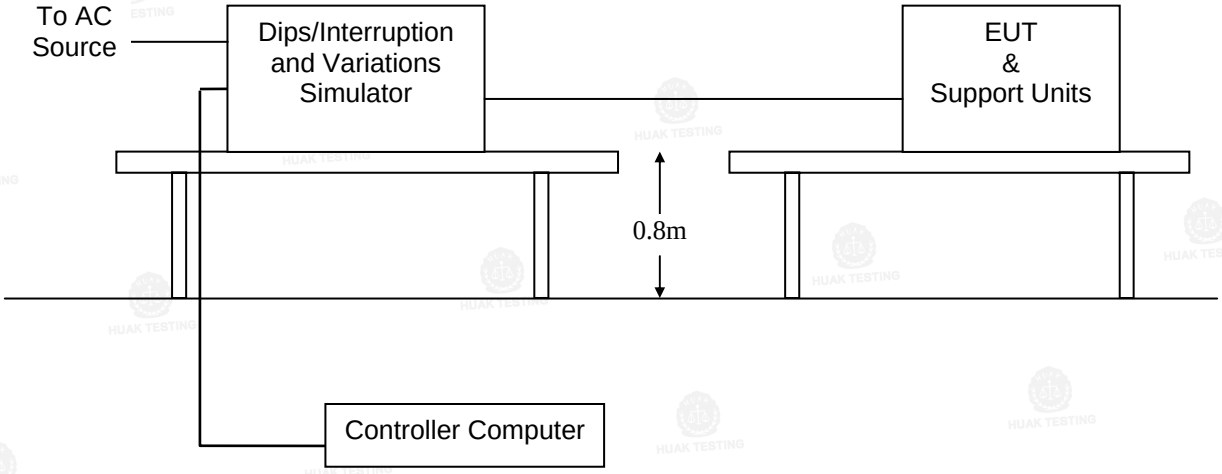
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4.1.11. Voltage Dips and Interruptions

LIMIT

Please refer to EN IEC 61000-4-11

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.7.2 and EN IEC 61000-4-11 for the measurement methods

Climatic conditions

- ambient temperature : 25℃
- relative humidity: 55%
- atmospheric pressure: 960 mbar

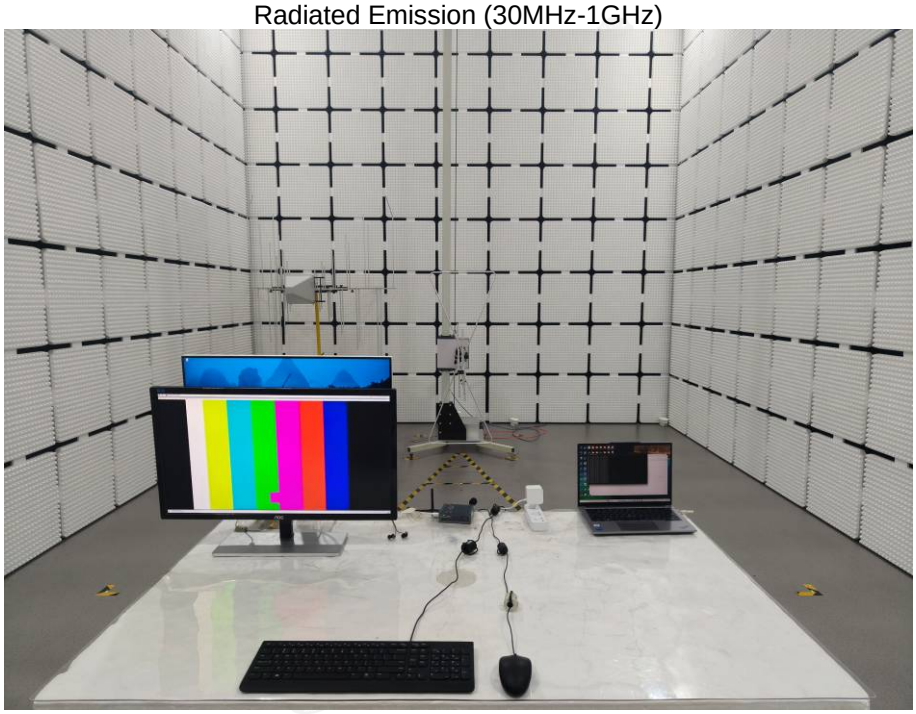
TEST RESULTS

Interruption & Dips	Duration (ms)	Perform Criteria	Results	Judgment
Voltage dip 0%	10	**B**	**A**	**PASS**
Voltage dip 0%	20	**B**	**A**	**PASS**
Voltage dip 70%	500	**C**	**A**	**PASS**
Voltage dip 0%	5000	**C**	**C**	**PASS**

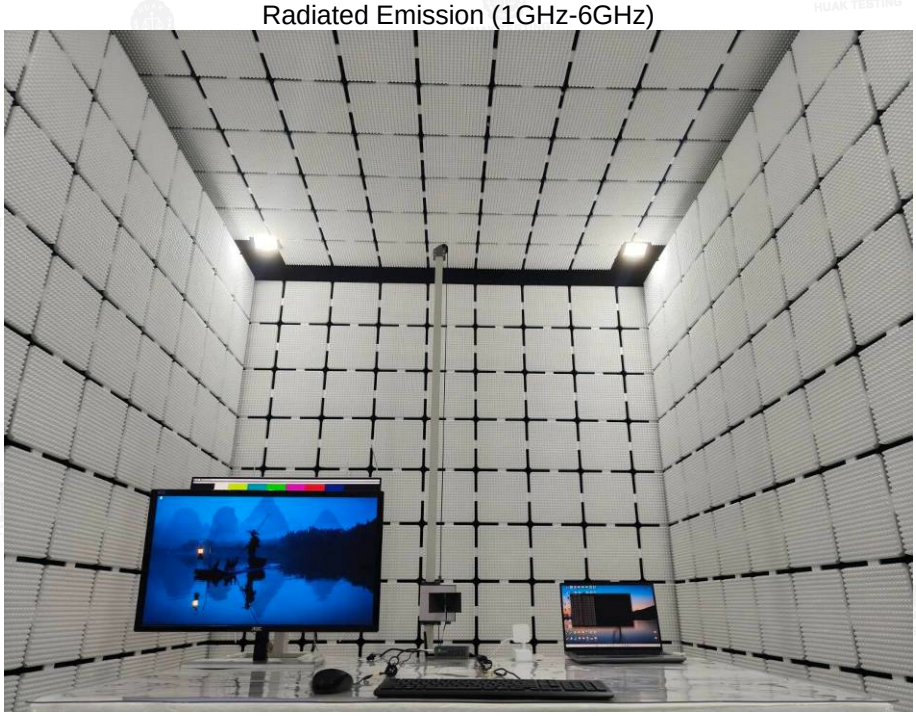
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5. Test Set-up Photos of the EUT

Radiated Emission (30MHz-1GHz)

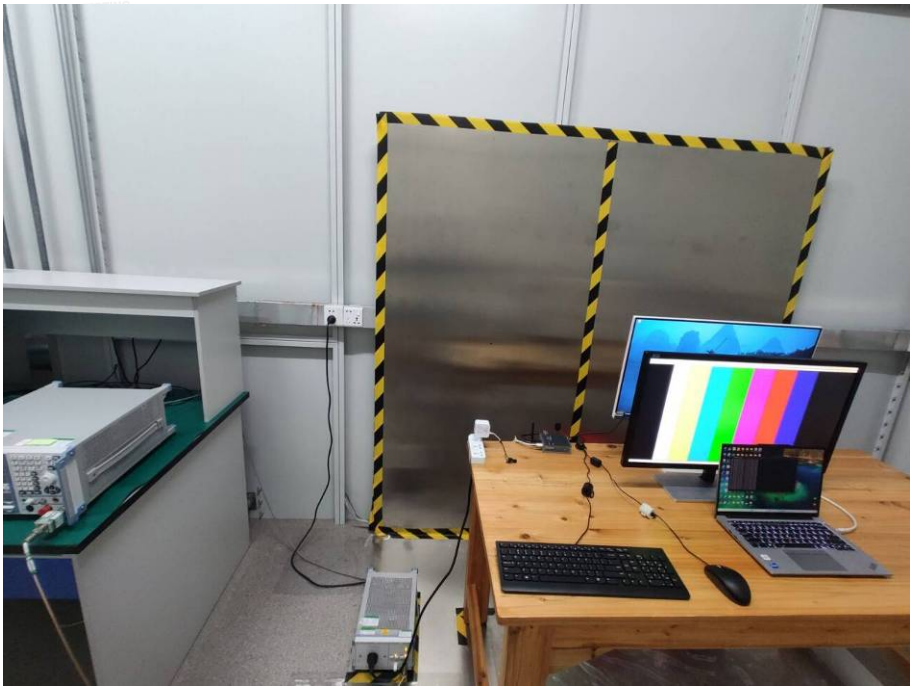


Radiated Emission (1GHz-6GHz)

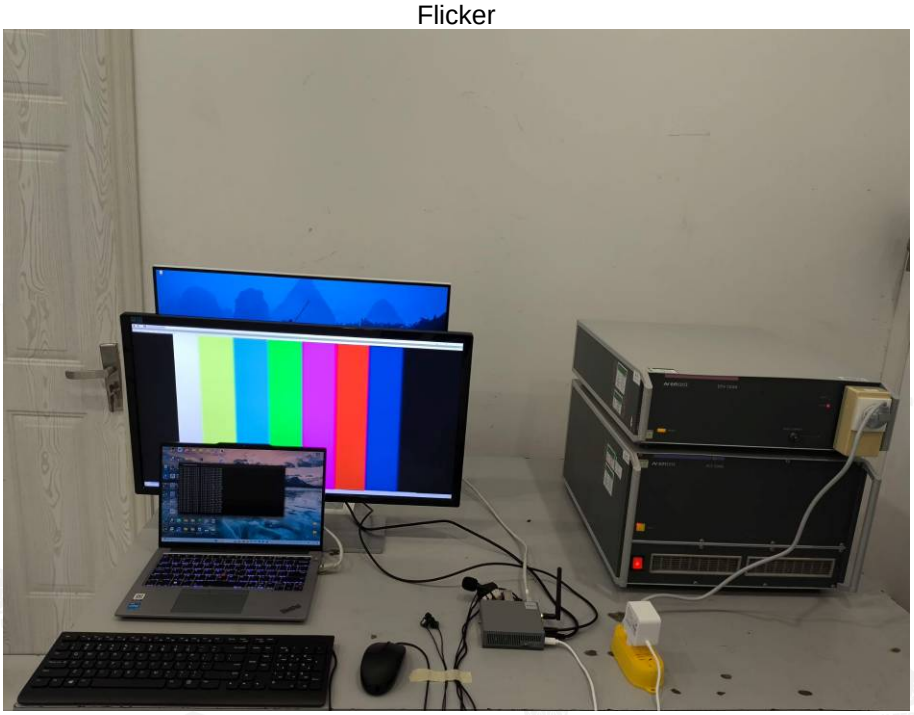


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Conducted Emission

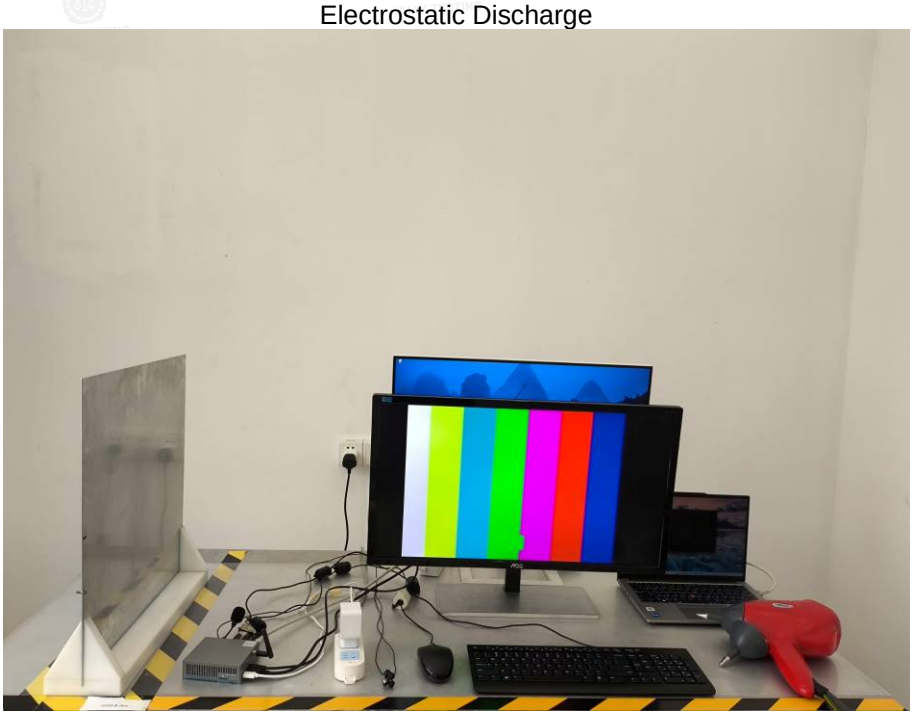


Flicker

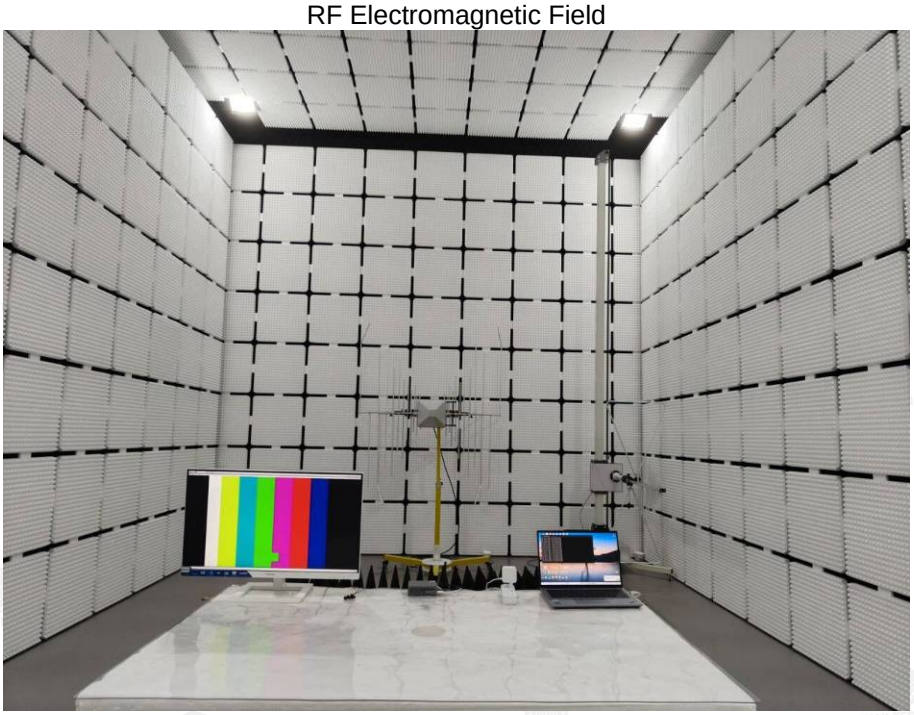


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Electrostatic Discharge

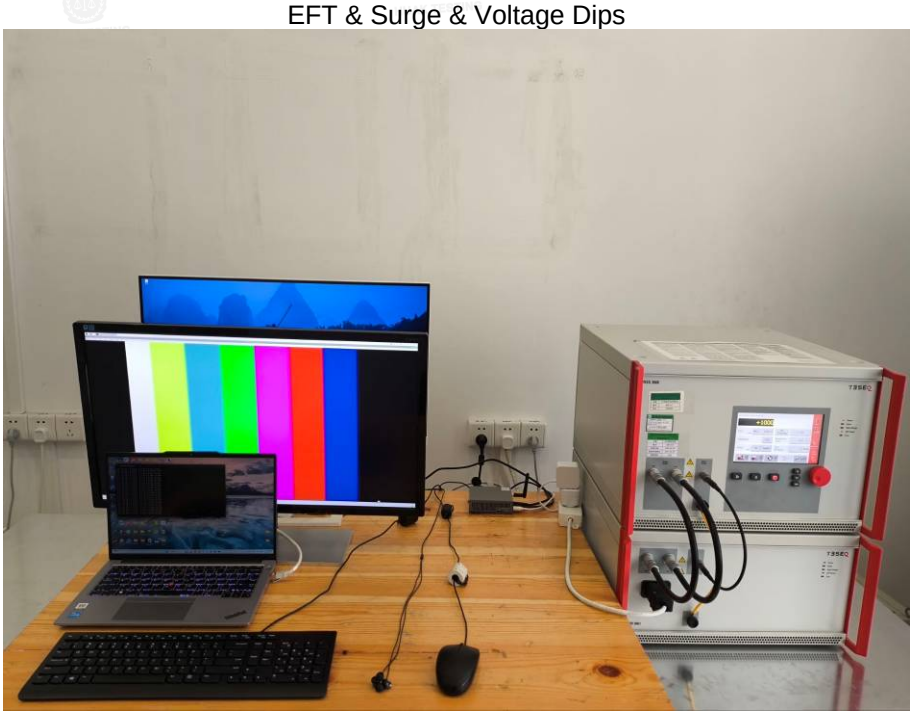


RF Electromagnetic Field

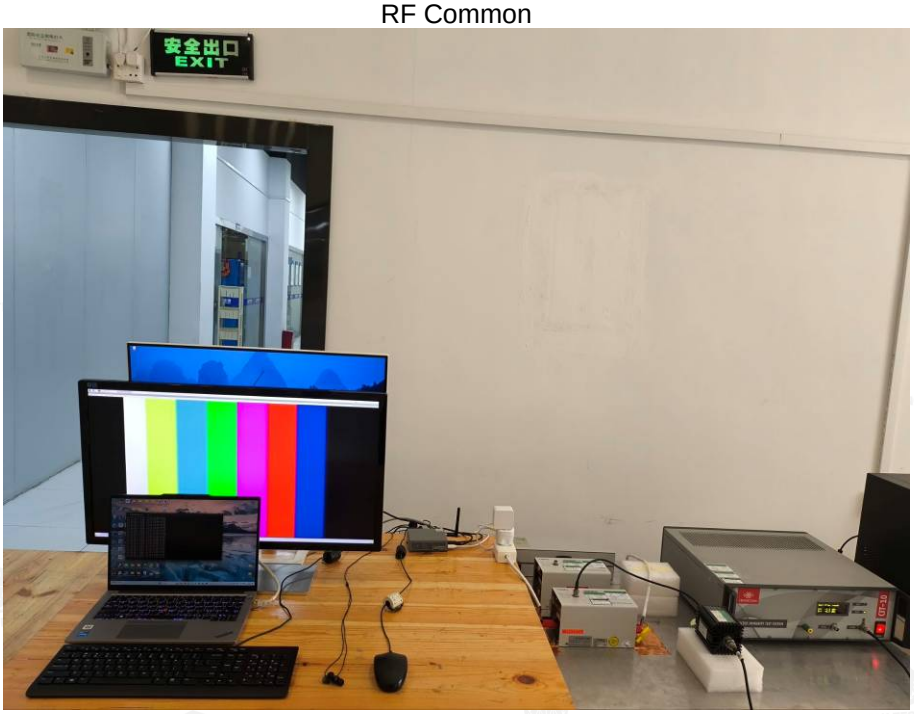


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EFT & Surge & Voltage Dips



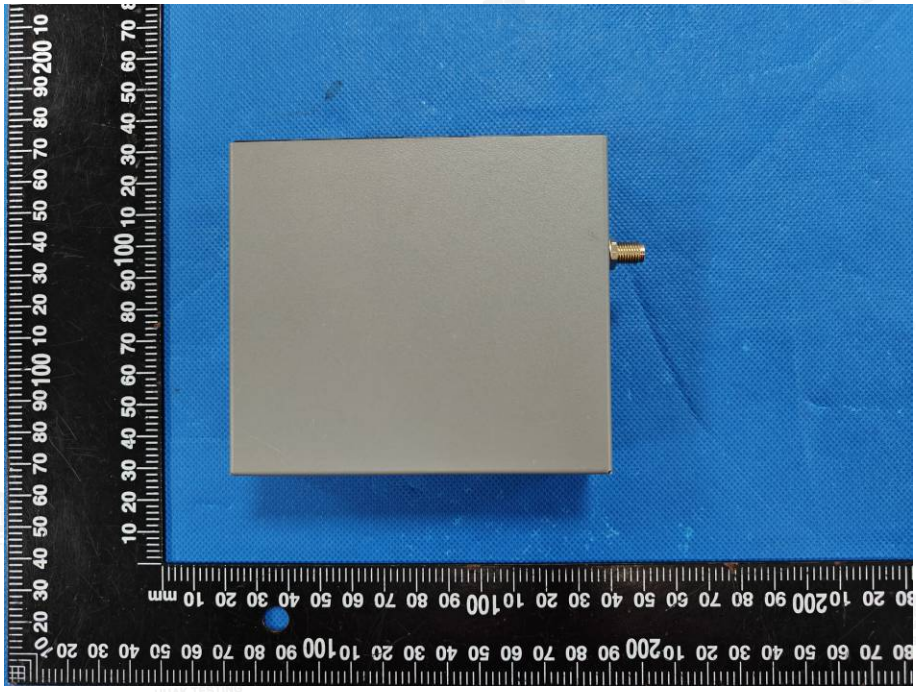
RF Common



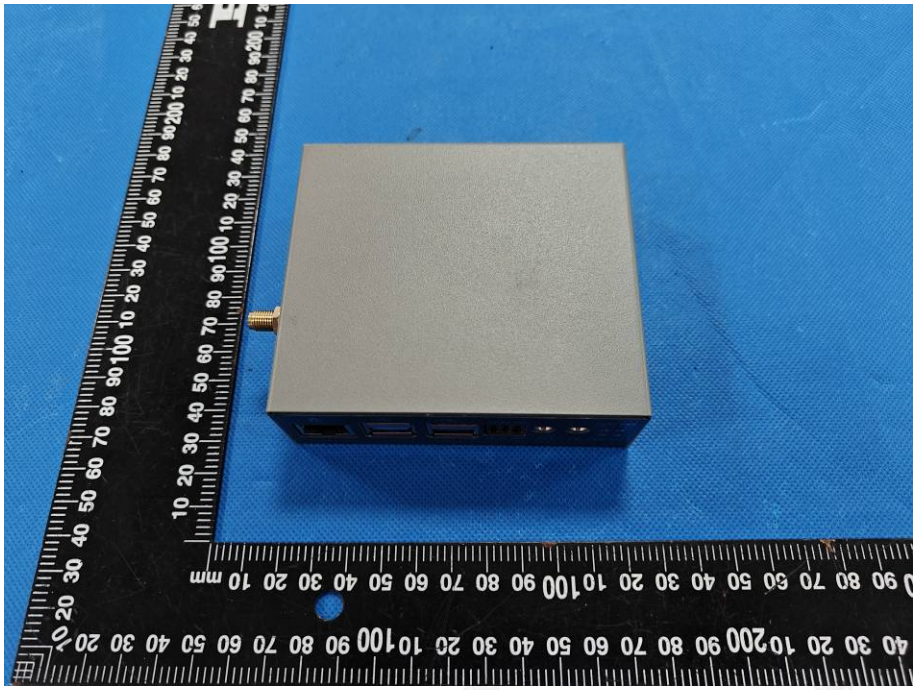
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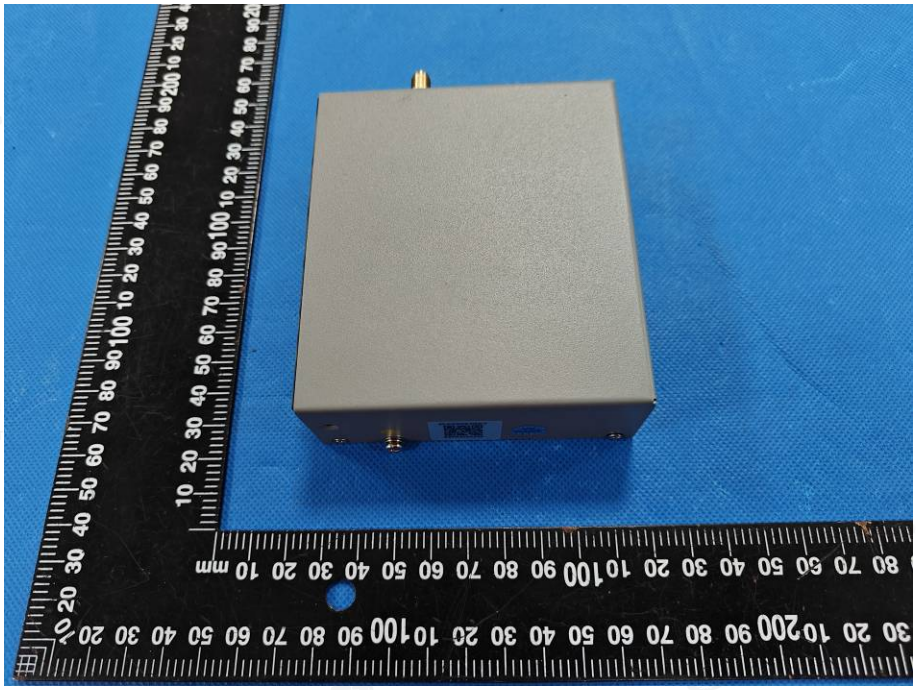
6. PHOTOS OF THE EUT



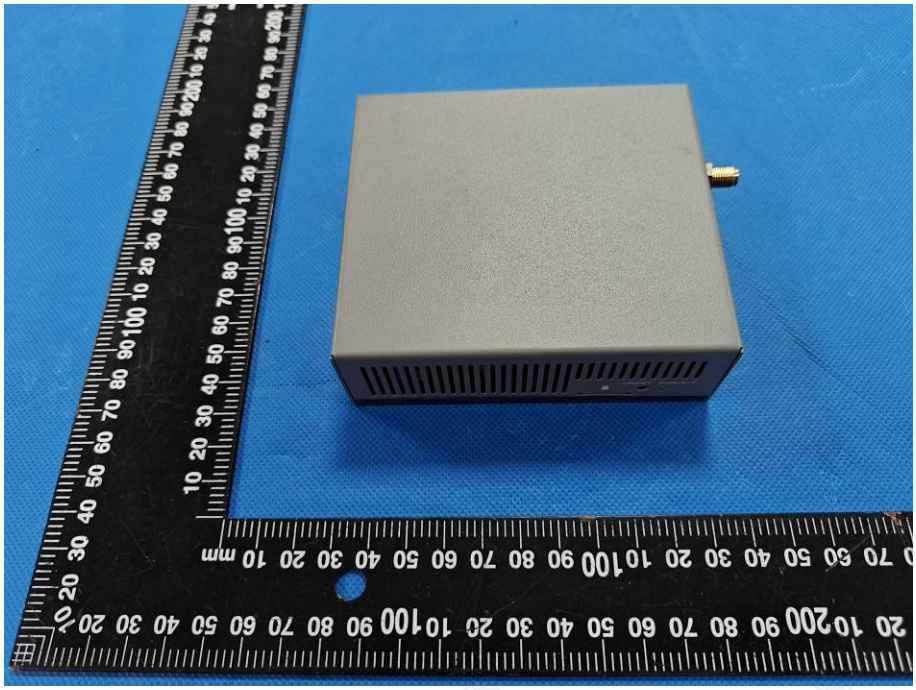


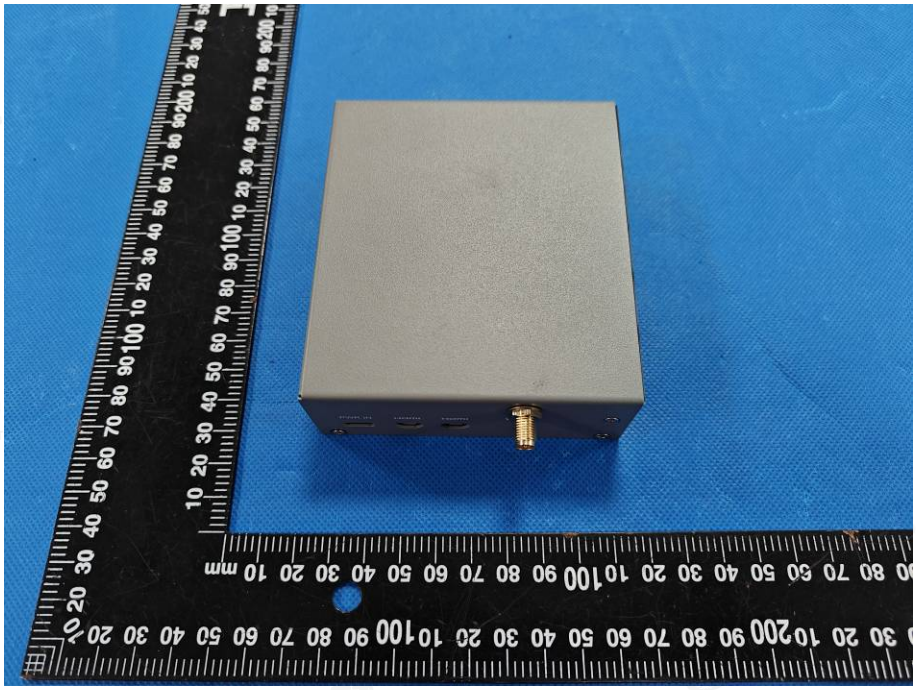
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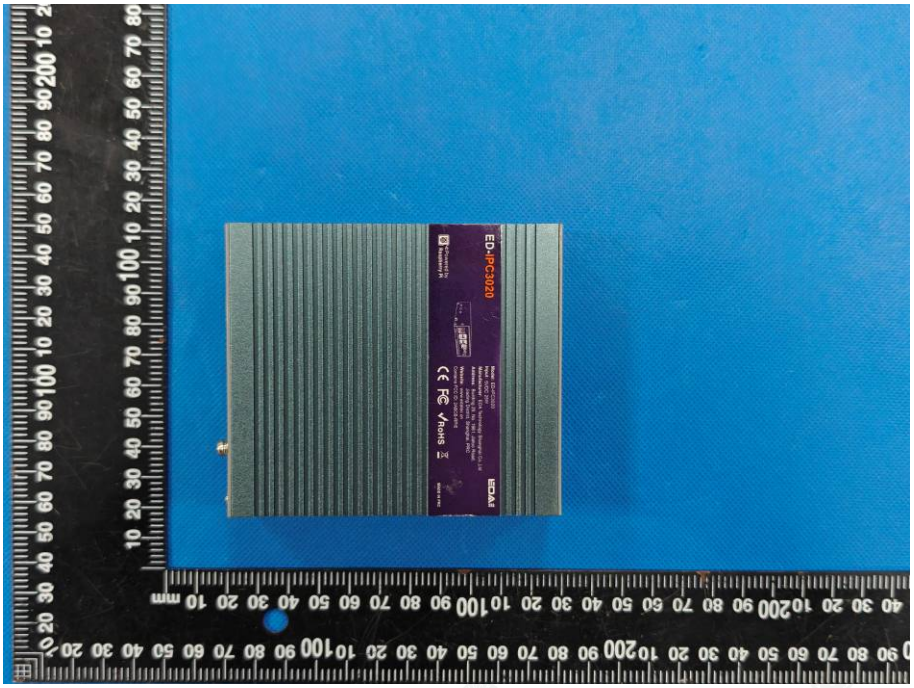


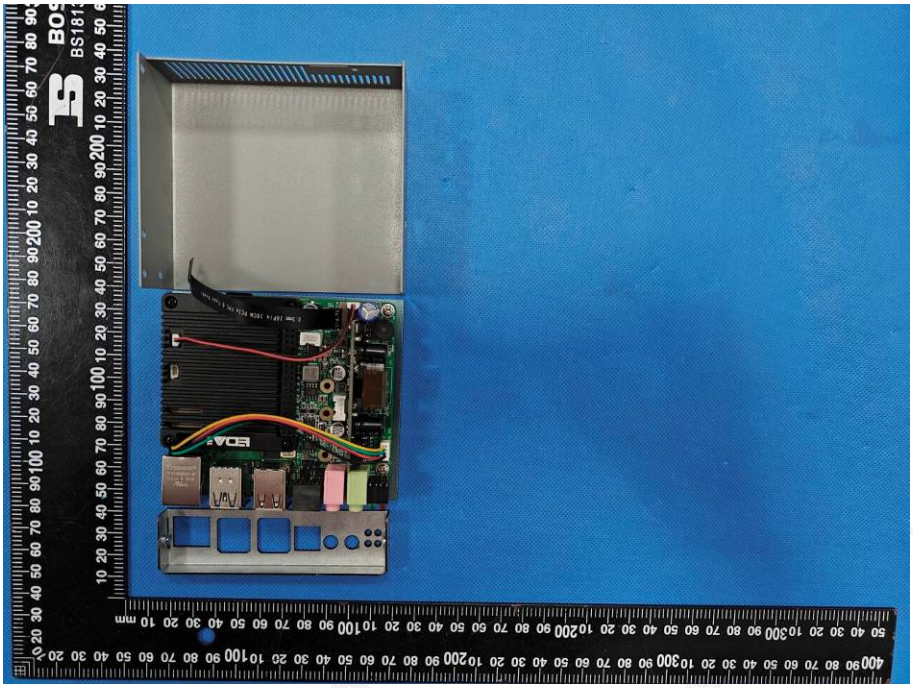
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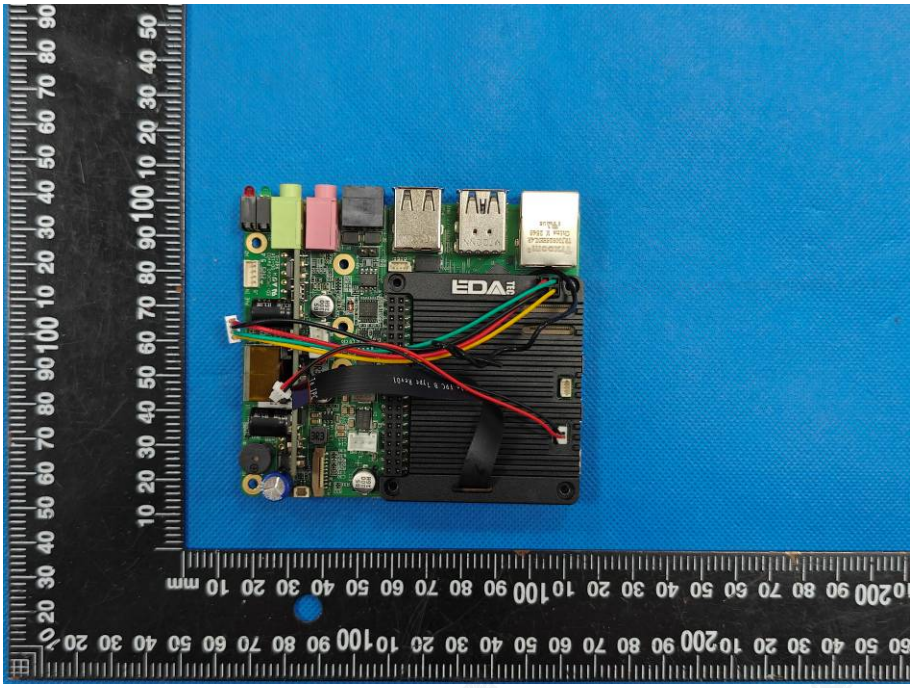


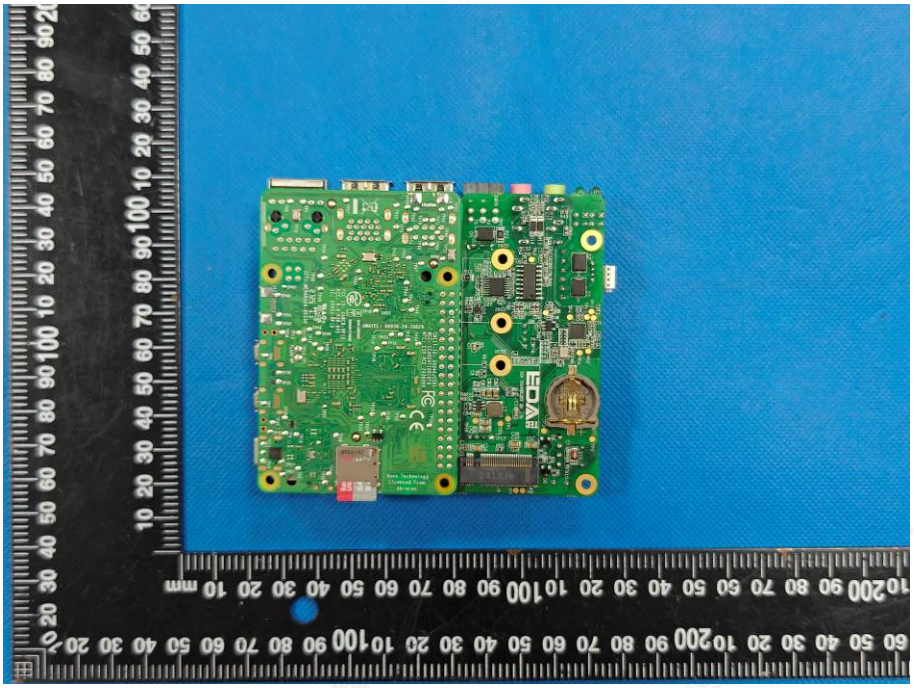
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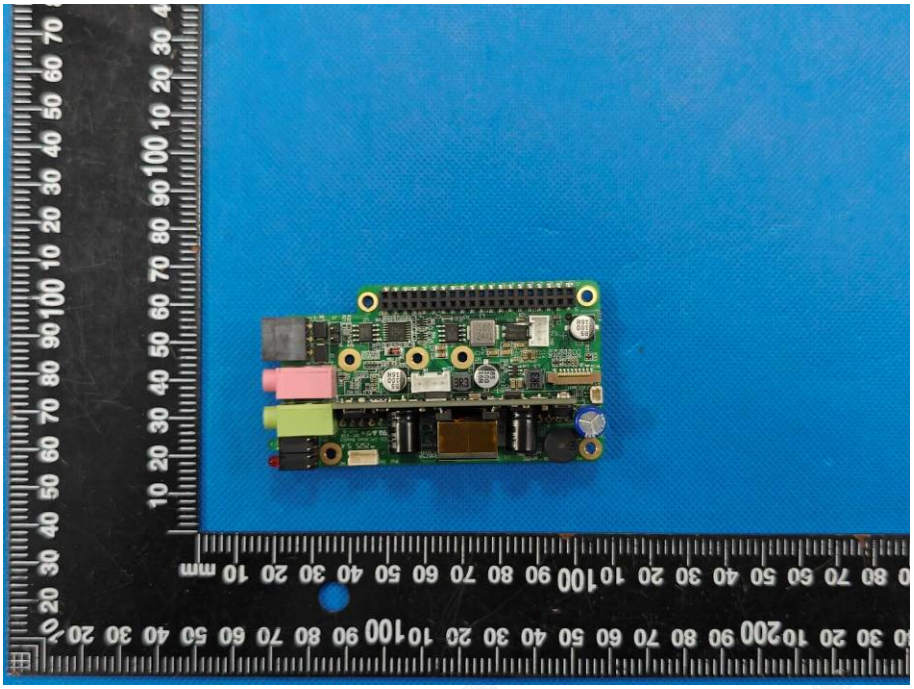


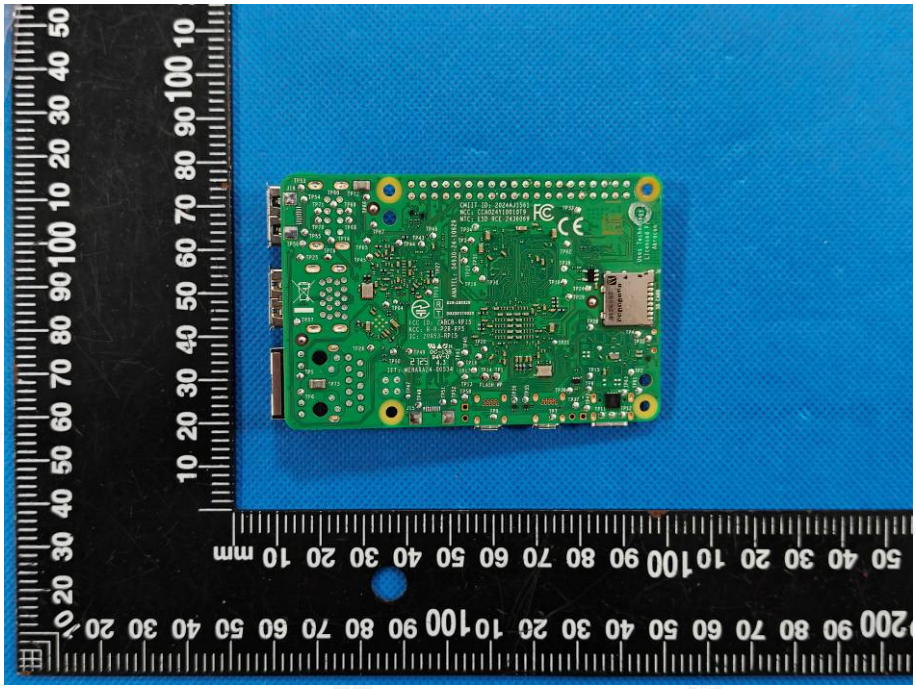
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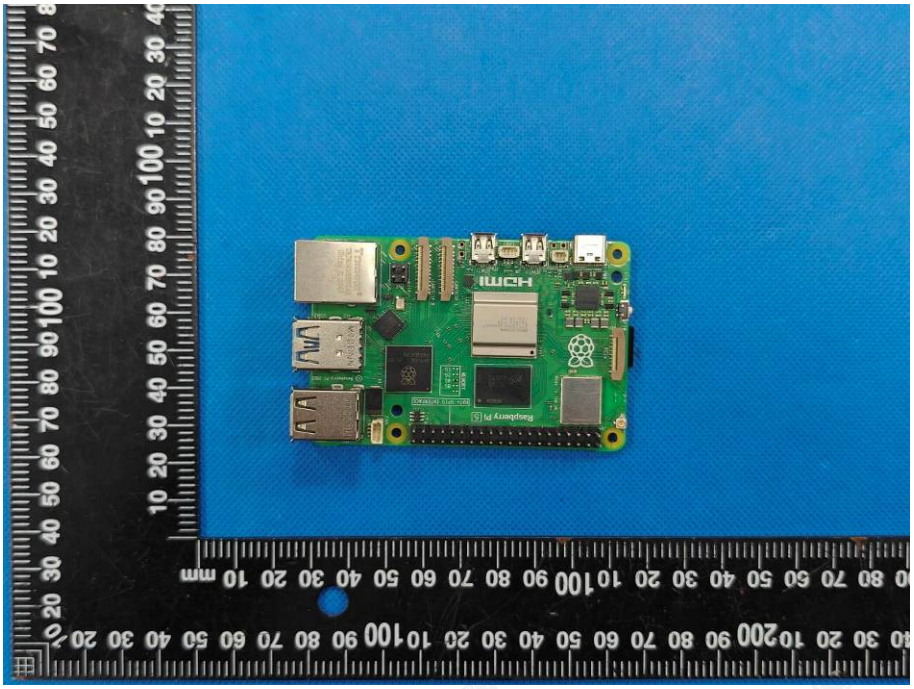


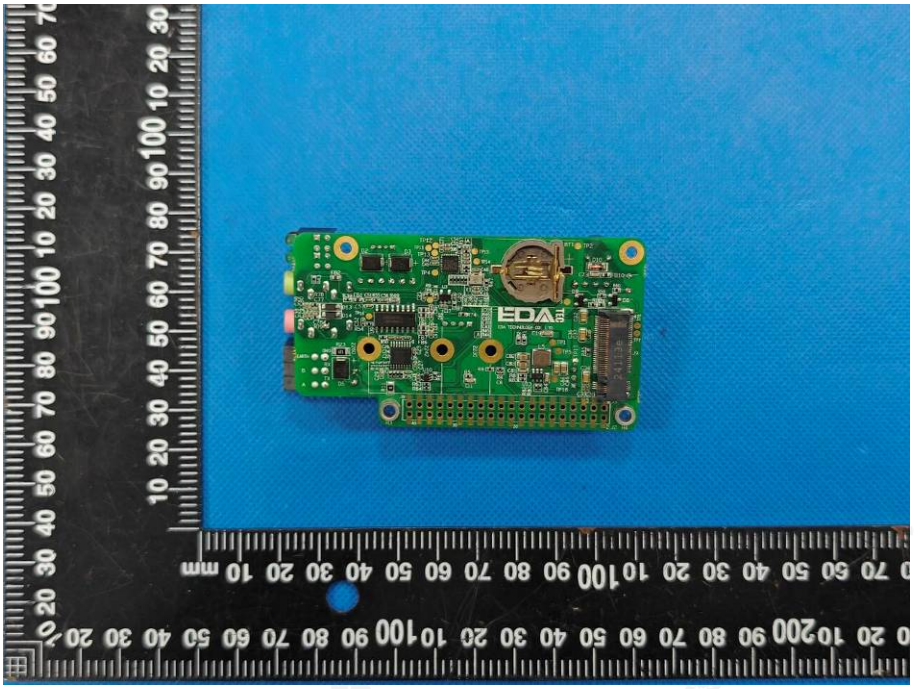
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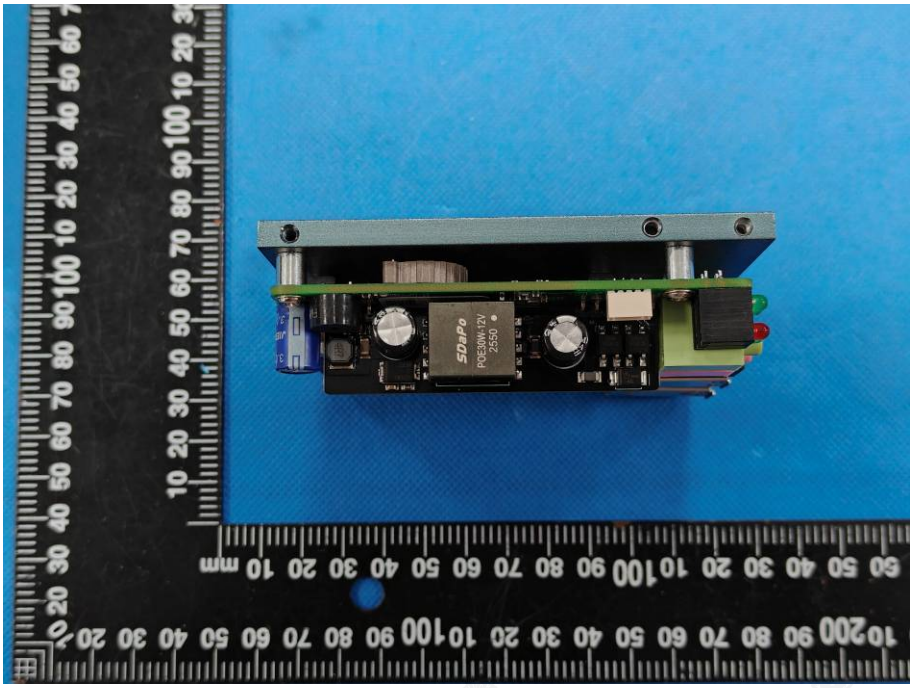


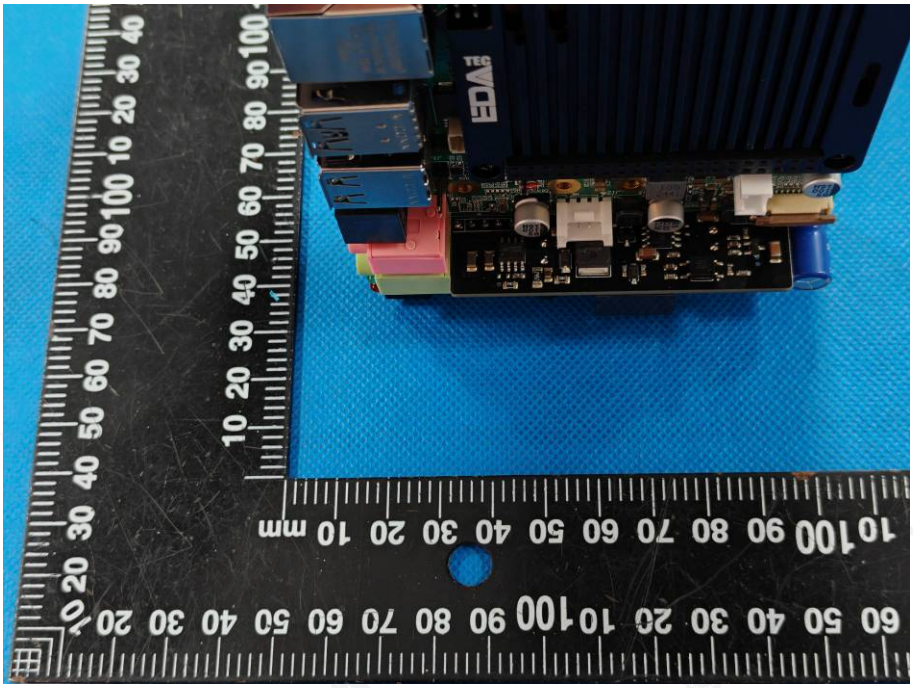
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.....End of Report.....

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