



EMC TEST REPORT

For

Shenzhen Huafurui Technology Co., Ltd.

Smartphone

Test Model: NOTE 60

Prepared for : Shenzhen Huafurui Technology Co., Ltd.
Address : Unit 601-03, 6/F, Block A, Building 1, Ganfeng
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Xiangjiaotang Community, Bantian Street, Longgang
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Date of receipt of test sample : April 28, 2025
Number of tested samples : 2
Sample No. : A250428037-1, A250428037-2
Serial number : Prototype
Date of Test : April 28, 2025 ~ May 20, 2025
Date of Report : May 21, 2025



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**EMC TEST REPORT****EN 55032:2015/A1:2020**

Electromagnetic compatibility of multimedia equipment - Emission Requirements

EN 55035:2017/A11:2020

Electromagnetic compatibility of multimedia equipment – Immunity requirements

Report Reference No. : LCSA04285026EN**Date of Issue..... : May 21, 2025****Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.****Address..... : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China****Testing Location/ Procedure ... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □****Applicant's Name..... : Shenzhen Huafurui Technology Co., Ltd.****Address..... : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China****Test Specification****Standard : EN 55032:2015/A1:2020
EN 55035:2017/A11:2020
EN IEC 61000-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021****Test Report Form No. : TRF-4-E-006 A/0****TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.****Master TRF..... : Dated 2011-03****Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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Test Item Description..... : Smartphone**Trade Mark..... : CUBOT****Test Model : NOTE 60****Ratings..... : Please Refer to Page 9****Result : Pass****Compiled by:***Nadia Zhou*

Nadia Zhou/ Administrator

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Jack Liu/ Technique principal

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Gavin Liang/ Manager



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EMC -- TEST REPORT

Test Report No. : LCSA04285026EN	<u>May 21, 2025</u> Date of issue
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Test Model..... : NOTE 60
EUT..... : Smartphone
Applicant..... : Shenzhen Huafurui Technology Co., Ltd.
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Telephone..... : /
Fax..... : /
Manufacturer..... : Shenzhen Huafurui Technology Co., Ltd.
Address..... : Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China
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Telephone..... : /
Fax..... : /

Test Result	Pass
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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.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	May 21, 2025	Initial Issue	--





TABLE OF CONTENTS

Test Report Description	Page
1. TEST STANDARDS	6
2.SUMMARY OF STANDARDS AND RESULTS	7
2.1. DESCRIPTION OF STANDARDS AND RESULTS	7
2.2. DESCRIPTION OF PERFORMANCE CRITERIA	8
3. GENERAL INFORMATION	9
3.1. DESCRIPTION OF DEVICE (EUT)	9
3.2. DESCRIPTION OF TEST FACILITY	10
3.3. SUPPORT EQUIPMENT LIST	10
3.4. EXTERNAL I/O	10
3.5. STATEMENT OF THE MEASUREMENT UNCERTAINTY	11
3.6. MEASUREMENT UNCERTAINTY	11
4. MEASURING DEVICES AND TEST EQUIPMENT	12
5. TEST RESULTS	15
5.1. POWER LINE CONDUCTED EMISSION MEASUREMENT	15
5.2. RADIATED EMISSION MEASUREMENT	17
5.3. HARMONIC CURRENT EMISSION MEASUREMENT	19
5.4. VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT	20
5.5. ELECTROSTATIC DISCHARGE IMMUNITY TEST	21
5.6. RF FIELD STRENGTH SUSCEPTIBILITY TEST	23
5.7. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST	25
5.8. SURGE IMMUNITY TEST	27
5.9. INJECTED CURRENTS SUSCEPTIBILITY TEST	29
5.10. MAGNETIC FIELD SUSCEPTIBILITY TEST	31
5.11. VOLTAGE DIPS AND INTERRUPTIONS TEST	32
ANNEXE A	33
ANNEXE B	39
6. PHOTOGRAPHS OF THE EUT	60



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1. TEST STANDARDS

The tests were performed according to following standards:

EN 55032:2015/A1:2020 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 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

EN 61000-3-3:2013/A2:2021 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 ≤ 16 A per phase and not subject to conditional connection



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2.SUMMARY OF STANDARDS AND RESULTS

2.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

Emission (EN 55032:2015/A1:2020)			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN 55032:2015/A1:2020	Class B	PASS
Conducted disturbance at telecommunication port	EN 55032:2015/A1:2020	Class B	N/A
Radiated disturbance	EN 55032:2015/A1:2020	Class B	PASS
Harmonic current emissions	EN IEC 61000-3-2:2019/A1:2021	Class A	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013/A2:2021	-----	PASS
Immunity (EN 55035:2017/A11:2020)			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	EN 61000-4-2	B	PASS
Radio-frequency, Continuous radiated disturbance	EN IEC 61000-4-3	A	PASS
Electrical fast transient (EFT)	EN 61000-4-4	B	PASS
Surge (Input a.c. power ports)	EN 61000-4-5	B	PASS
Surge (Telecommunication ports)		B	N/A
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6	A	PASS
Power frequency magnetic field	EN 61000-4-8	A	PASS
Voltage dips, >95% reduction	EN IEC 61000-4-11	B	PASS
Voltage dips, 30% reduction		C	PASS
Voltage interruptions		C	PASS
***Note: N/A is an abbreviation for Not Applicable.			

Test mode:		
Mode 1	Operate in Charging mode	Record
Mode 2	Playing Music mode	Pre-scan
Mode 3	Video playing mode	Pre-scan
Mode 4	Camera mode	Pre-scan
Note: 1. All test modes were tested, but we only recorded the worst case in this report.		





2.2. Description of Performance Criteria

General Performance Criteria

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;

2.2.1. Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacture when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

2.2.2. Performance criterion B

After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacture, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operation state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

2.2.3. Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacture's instructions.

Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



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3. GENERAL INFORMATION

3.1. Description of Device (EUT)

EUT : Smartphone

Test Model : NOTE 60

Ratings : Adapter1 Model: TPD-203A120167VF01
For AC Adapter Input: 100-240V~, 50/60Hz, 0.6A
Adapter Output: 5.0V---3.0A 15.0W or 9.0V---2.22A 19.98W or
12.0V---1.67A 20.04W
Adapter2 Model: HJ-PD18W-EU
For AC Adapter Input: 100-240V~, 50/60Hz, 0.6A
Adapter Output: 5.0V---3.0A 15.0W OR 9.0V---2.0A 18.0W OR
12.0V---1.5A 18.0W MAX
DC 3.91V by Rechargeable Li-ion Battery, 7000mAh

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 108 \text{ MHz}$ $108 \text{ MHz} < F_x \leq 500 \text{ MHz}$ $500 \text{ MHz} < F_x \leq 1 \text{ GHz}$ $F_x > 1 \text{ GHz}$	1 GHz 2 GHz 5 GHz 5 × Fx up to a maximum of 6 GHz
NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies. NOTE 2 Fx is defined in EN 55032 Section 3.1.19. Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz	





3.2. Description of Test Facility

NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.

3.3. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	AC Adapter	TPD-203A120 167VF01	--	CE
Shenzhen Huajin Electronics Co., Ltd	Fast Charger	HJ-PD18W-EU	--	CE

3.4. External I/O

I/O Port Description	Quantity	Cable
Type-C USB Port	1	USB Cable: 1.0m, unshielded Earphone Cable: 1.0m, unshielded





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 LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

3.6. Measurement Uncertainty

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cisp})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Power Disturbance	Level accuracy (30MHz to 300MHz)	± 2.90 dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.60 dB	± 3.3 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB
Mains Harmonic	Voltage	$\pm 0.510\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 0.510\%$	N/A
1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus. 2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.			



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4. MEASURING DEVICES AND TEST EQUIPMENT

Test Item: Conducted Disturbance

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	Farad	EZ	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102312	2025-03-06	2026-03-05
3	Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
4	Pulse Limiter	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-05
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2024-10-11	2025-10-10

Test Item: Radiated Disturbance (Electric Field)

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	Farad	EZ	/	N/A	N/A
2	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2022-08-17	2025-08-16
3	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
6	EMI Test Receiver	R&S	ESPI	101940	2024-06-06	2025-06-05
7	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08	2025-10-07
8	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2024-10-08	2025-10-07
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2024-10-08	2025-10-07

Test Item: Harmonic Current

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	HARMONICS&FLICKER MEASUREMENT SYSTEM	EVERFINE	HFM-3000	P630850CD1411116	2025-03-06	2026-03-05
2	HARMONICS&FLICKER TESTING POWER SOURCE	EVERFINE	HFS-4000	P624486CD1411124	2025-03-06	2026-03-05

Test Item: Voltage fluctuation and Flicker

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	HARMONICS&FLICKER MEASUREMENT SYSTEM	EVERFINE	HFM-3000	P630850CD1411116	2025-03-06	2026-03-05
2	HARMONICS&FLICKER TESTING POWER SOURCE	EVERFINE	HFS-4000	P624486CD1411124	2025-03-06	2026-03-05

Test Item: Electrostatic Discharge

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	ESD Simulator	SCHLODER	SESD 230	604035	2024-07-15	2025-07-14



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**Test Item: RF Field Strength Susceptibility**

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	RS Test Software	Tonscend	/	/	N/A	N/A
2	MXG Vector Signal Generator	Agilent	E4438C	MY42081396(6 G)	2024-10-08	2025-10-07
3	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2022-08-17	2025-08-16
4	RF POWER AMPLIFIER	OPHIR	5225R	1052	2024-06-06	2025-06-05
5	RF POWER AMPLIFIER	OPHIR	5273F	1019	2024-06-06	2025-06-05
6	RF POWER AMPLIFIER	SKET	HAP_0306G-50W	/	2024-06-06	2025-06-05
7	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	2023-07-14	2026-07-13
8	Stacked Mikrowellen Log.-Per Antenna	SCHWARZBECK	STLP 9149	9149-482	2024-07-20	2027-07-19
9	RS Electric field probe	narda	EP601	611WX80208	2024-06-25	2025-06-24

Test Item: Electrical Fast Transient/Burst

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Immunity Simulative Generator	EM TEST	UCS500-M4	0101-34	2024-06-06	2025-06-05
2	Capacitive coupling clamp	3CTEST	EFTC	EC0441098	2024-06-06	2025-06-05

Test Item: Surge

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Immunity Simulative Generator	EM TEST	UCS500-M4	0101-34	2024-06-06	2025-06-05
2	Communication wave lightning generator	HTEC	HTSG 70	181701	2024-10-08	2025-10-07
3	Symmetrical data line coupling network	HTEC	HCN 8	182701	2024-10-08	2025-10-07
4	Data line decoupling network	HTEC	HDEC 8	182702	2024-10-08	2025-10-07

Test Item: Conducted Susceptibility

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Simulator	FRANKONIA	CIT-10/75	A126A1195	2024-06-06	2025-06-05
2	CDN	FRANKONIA	CDN-M2+M3	A2210177	2024-06-06	2025-06-05
3	6dB Attenuator	FRANKONIA	DAM25W	1172040	2024-06-06	2025-06-05
4	Electromagnetic coupling injection clamp	ZHINAN	ZN23203	14017	2024-06-06	2025-06-05

Test Item: Power Frequency Magnetic Field Susceptibility

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power frequency mag-field generator System	EVERFINE	EMS61000-8K	906003	2024-06-06	2025-06-05



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Test Item: Voltage Dips						
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Three phase power supply fault simulator	HTEC	HPFS 2003P	234711	2025-01-07	2026-01-06
2	Programmable AC fault power supply	HTEC	HV3P200T	234710	2025-01-07	2026-01-06

Test Item: Voltage Short Interruptions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Three phase power supply fault simulator	HTEC	HPFS 2003P	234711	2025-01-07	2026-01-06
2	Programmable AC fault power supply	HTEC	HV3P200T	234710	2025-01-07	2026-01-06

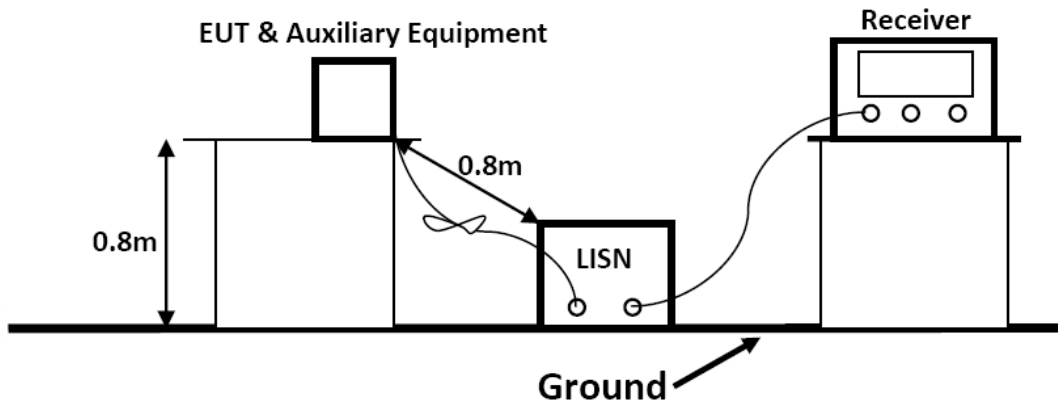
Note: N/A means no calibration requirement



5. TEST RESULTS

5.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

5.1.1. Block Diagram of Test Setup



5.1.2. Test Standard

EN 55032:2015/A1:2020 Class B

Power Line Conducted Emission Limits (Class B)		
Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.1.3. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the EN 55032 requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.1.4. Operating Condition of EUT

5.1.4.1. Setup the EUT as shown on Section 5.1.1

5.1.4.2. Turn on the power of all equipments.

5.1.4.3. Let the EUT work in measuring mode(1) and measure it.



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5.1.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided 50-ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN 55032 regulations during conducted emission measurement.

The bandwidth of the field strength meter is set at 9kHz in 150kHz~30MHz.

The frequency range from 150kHz to 30MHz is investigated.

5.1.6. Test Results

PASS.

Refer to attached Annexe B.1



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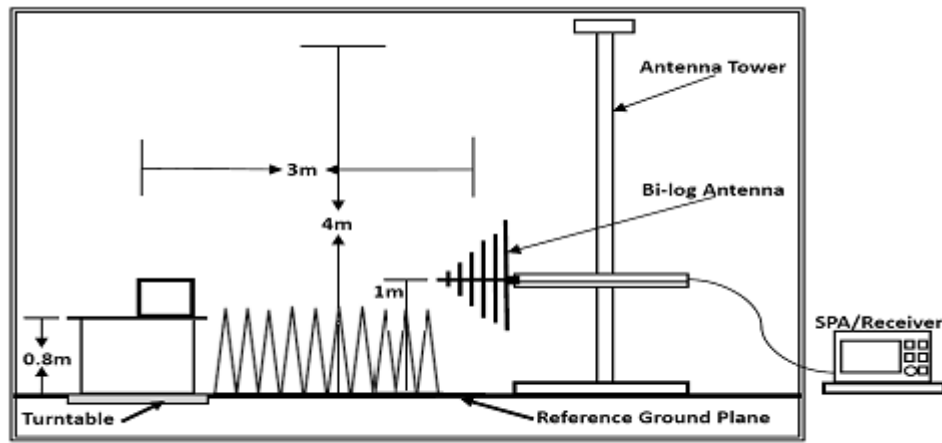
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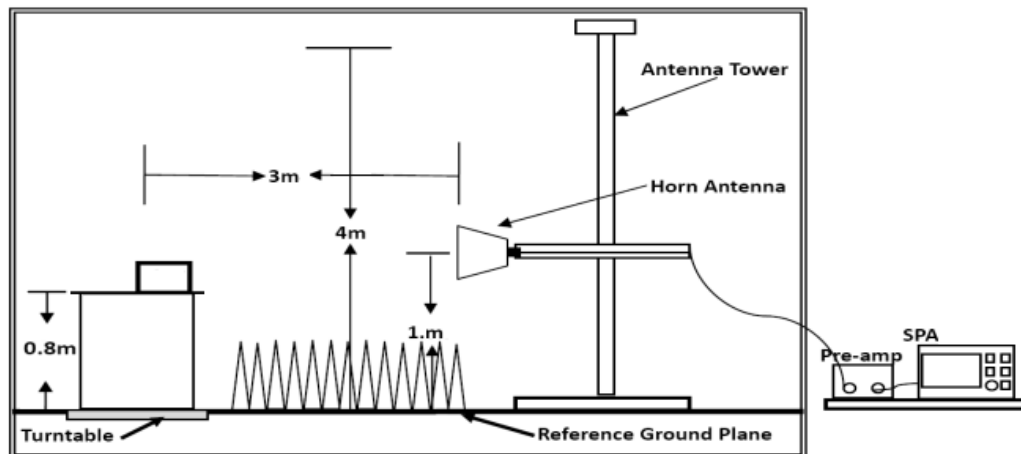


5.2. RADIATED EMISSION MEASUREMENT

5.2.1. Block Diagram of Test Setup



Below 1GHz



Above 1GHz



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5.2.2. Test Standard

EN 55032:2015/A1:2020 Class B

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Limits for Radiated Emission Below 1GHz			
Frequency (MHz)	Distance (Meters)	Field Strengths Limit (dBμV/m)	
30 ~ 230	3	42-35	
230 ~ 1000	3	42	
***Note: (1) The smaller limit shall apply at the combination point between two frequency bands. (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)
1000 ~ 6000	3	74	54
***Note: The lower limit applies at the transition frequency.			

5.2.3. EUT Configuration on Test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

5.2.4. Operating Condition of EUT

5.2.4.1. Turn on the power.

5.2.4.2. Let the EUT work in the test mode(1) and measure it.

5.2.5. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. By-log antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the EMI test receiver is set at RBW/VBW=120kHz/300kHz.

The frequency range from 30MHz to 1000MHz is checked.

The bandwidth of the Spectrum analyzer is set at RBW/VBW=1MHz/3MHz.

The frequency range from 1GHz to the frequency which about 5th carrier harmonic or 6GHz is checked.

5.2.6. Test Results

PASS.

Refer to attached Annexe B.2



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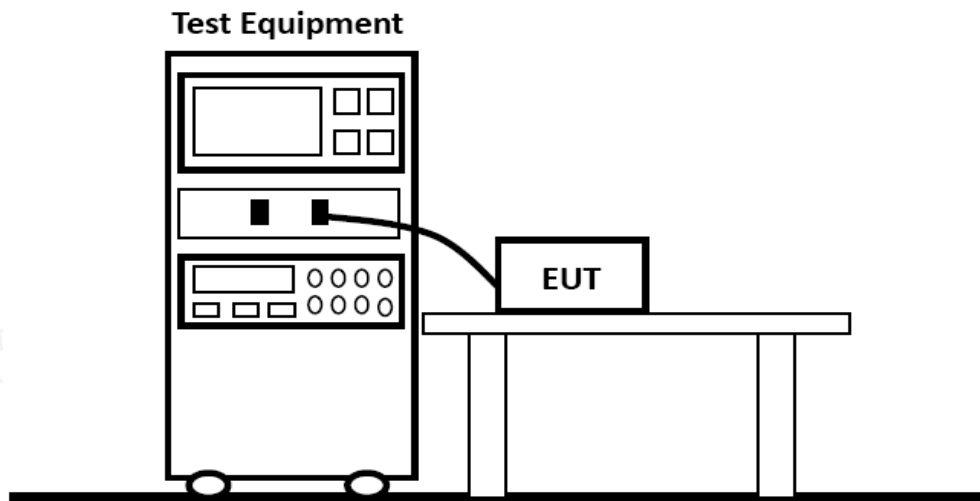
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5.3. HARMONIC CURRENT EMISSION MEASUREMENT

5.3.1. Block Diagram of Test Setup



5.3.2. Test Standard

EN IEC 61000-3-2:2019/A1:2021

5.3.3. Operating Condition of EUT

Same as Section 5.2.4, except the test setup replaced as Section 5.3.1.

5.3.4. Test Results

N/A

Refer to attached Annexe B.3



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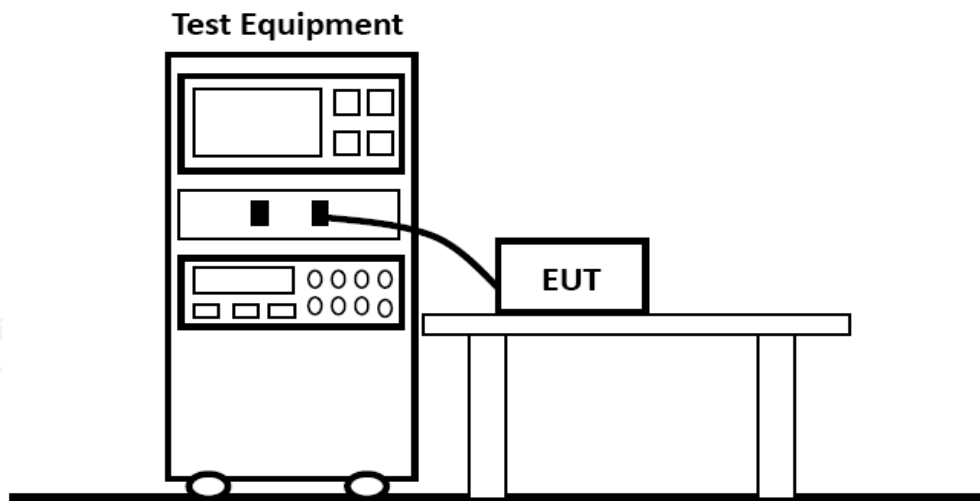
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5.4. VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT

5.4.1. Block Diagram of Test Setup



5.4.2. Test Standard

EN 61000-3-3:2013/A2:2021

5.4.3. Operating Condition of EUT

Same as Section 5.2.4, except the test setup replaced as Section 5.4.1.

5.4.4. Test Results

PASS.

Refer to attached Annexe B.4



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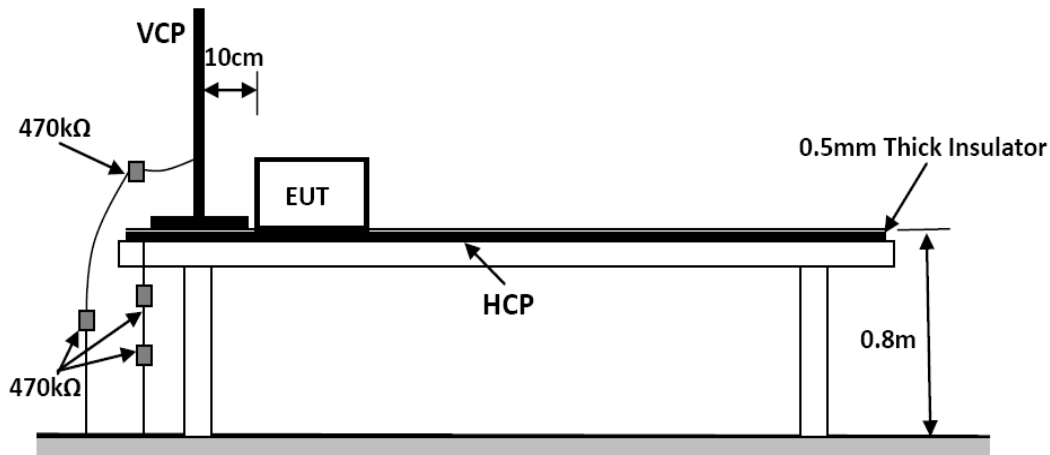
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5.5. ELECTROSTATIC DISCHARGE IMMUNITY TEST

5.5.1. Block Diagram of Test Setup



5.5.2. Test Standard

EN 55035:2017/A11:2020 (EN 61000-4-2, Severity Level: 3 / Air Discharge: $\pm 8\text{KV}$, Level: 2 / Contact Discharge: $\pm 4\text{KV}$)

5.5.3. Severity Levels and Performance Criterion

5.5.3.1. Severity level

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

5.5.3.2. Performance Criterion

Performance Criterion: B

5.5.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.5.1.

5.5.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 5.1.4. Except the test set up replaced by Section 5.5.1.





5.5.6. Test Procedure

5.5.6.1. Air Discharge

This test is done on a non-conductive surfaces. The round discharge tip of the Electrostatic Discharge simulator shall be approached as fast as possible then to touch the EUT. After each discharge, the simulator shall be removed from the EUT. The simulator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

5.5.6.2. Contact Discharge

All the procedure shall be same as air discharge, except using the acute discharge tip. The top end of the Electrostatic Discharge simulator is touch the EUT all the time when the simulator is re-triggered for a new single discharge and repeated 10 times for each pre-selected test point.

5.5.6.3. Indirect Discharge For Horizontal Coupling Plane

The vertical coupling plane(VCP) is placed 0.1m away from EUT. The top end of Electrostatic Discharge simulator should aim at the center of one border of the VCP for at least 25 times discharge.

5.5.6.4. Indirect Discharge For Vertical Coupling Plane

The top end of Electrostatic Discharge simulator should place at the point 0.1m away from EUT on the horizontal coupling plane(HCP). At least 25 times discharge should be done for every pre-selected point around EUT.

Record any performance degradation of the EUT during the test and judge the test result according to ce criterion.

5.5.7. Test Results

PASS.

Refer to attached Annexe B.5



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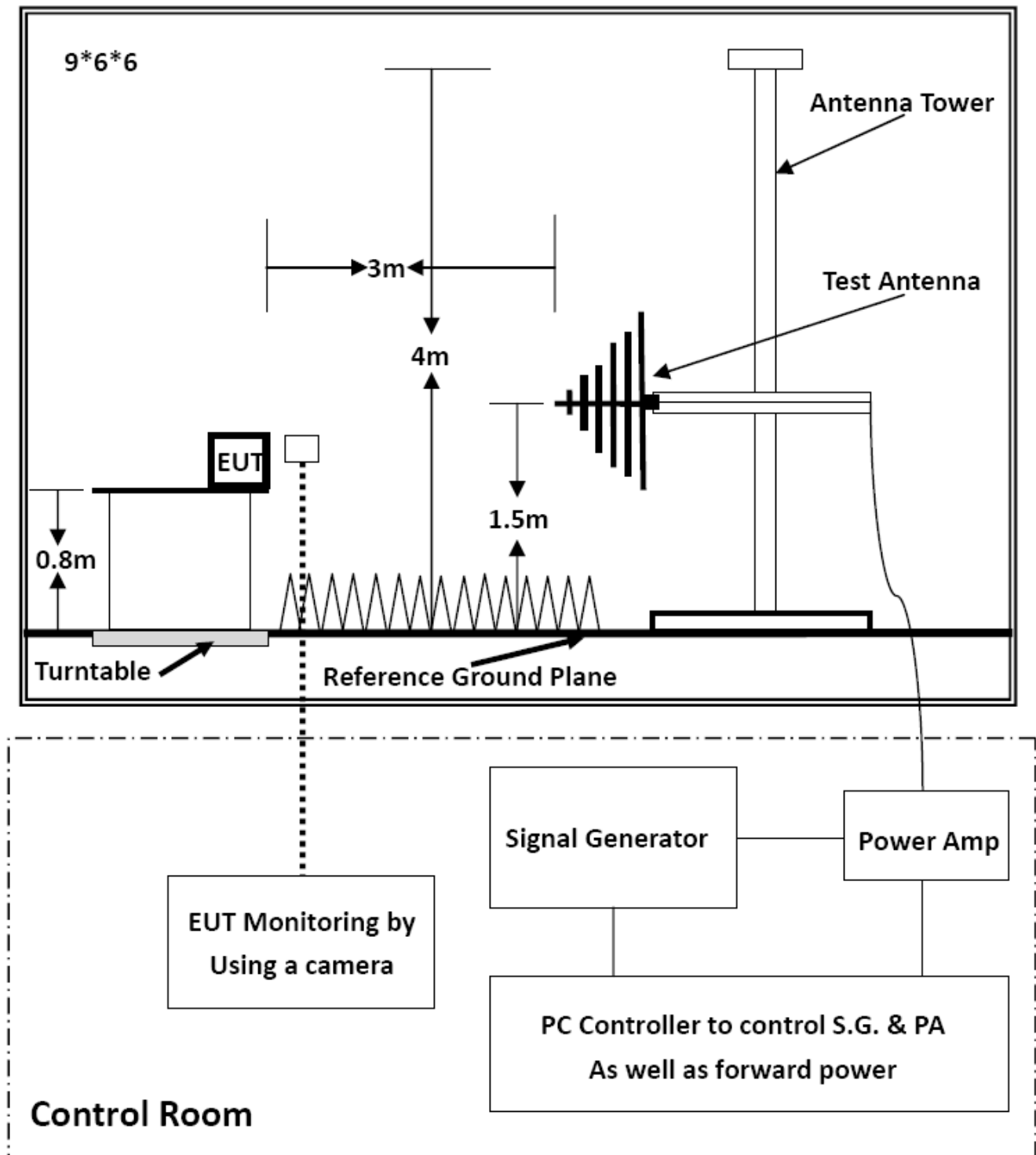
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5.6. RF FIELD STRENGTH SUSCEPTIBILITY TEST

5.6.1. Block Diagram of Test Setup



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5.6.2. Test Standard

EN 55035:2017/A11:2020 (EN IEC 61000-4-3 Severity Level: 2, 3V/m)

5.6.3. Severity Levels and Performance Criterion

5.6.3.1. Severity level

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

5.6.3.2. Performance Criterion

Performance Criterion: A

5.6.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.6.1.

5.6.5. Operating Condition of EUT

Same as radiated emission measurement, which is listed in Section 5.2.4, except the test setup replaced as Section 5.6.1.

5.6.6. Test Procedure

The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD Recording is used to monitor its screen. All the scanning conditions are as following:

Condition of Test	Remark
Fielded Strength	3 V/m (Severity Level 2)
Radiated Signal	Unmodulated
Test Frequency Range (swept test)	80-1000MHz
Test Frequency (spot test)	1800MHz, 2600MHz, 3500MHz, 5000MHz
Dwell time of radiated	0.0015 decade/s
Waiting Time	3 Sec.

5.6.7. Test Results

PASS.

Refer to attached Annexe B.6



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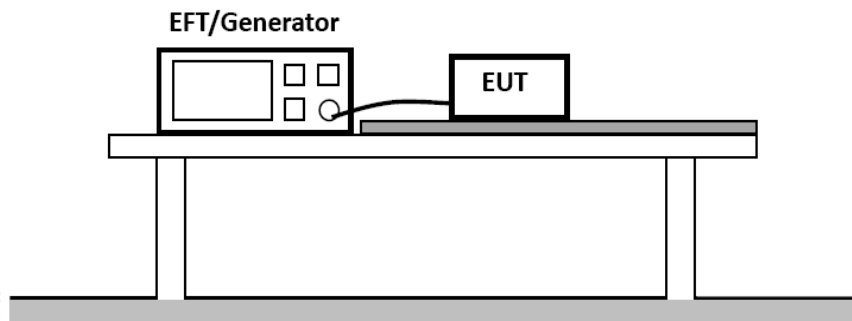
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5.7. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

5.7.1. Block Diagram of Test Setup



5.7.2. Test Standard

EN 55035:2017/A11:2020 (EN 61000-4-4, Severity Level, Level 2: 1KV)

5.7.3. Severity Levels and Performance Criterion

5.7.3.1. Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1	0.5 KV	0.25 KV
2	1 KV	0.5 KV
3	2 KV	1 KV
4	4 KV	2 KV
X	Special	Special

5.7.3.2. Performance Criterion

Performance Criterion: B

5.7.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.7.1.

5.7.5. Operating Condition of EUT

5.7.5.1. Setup the EUT as shown in Section 5.7.1.

5.7.5.2. Turn on the power of all equipments.

5.7.5.3. Let the EUT work in test mode(1) and measure it.



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5.7.6. Test Procedure

The EUT is put on the table, which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

5.7.6.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device, which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 1 mins.

5.7.6.2. For signal lines and control lines ports:

It's unnecessary to test.

5.7.6.3. For DC output line ports:

It's unnecessary to test.

5.7.7. Test Results

PASS.

Refer to attached Annexe B.7



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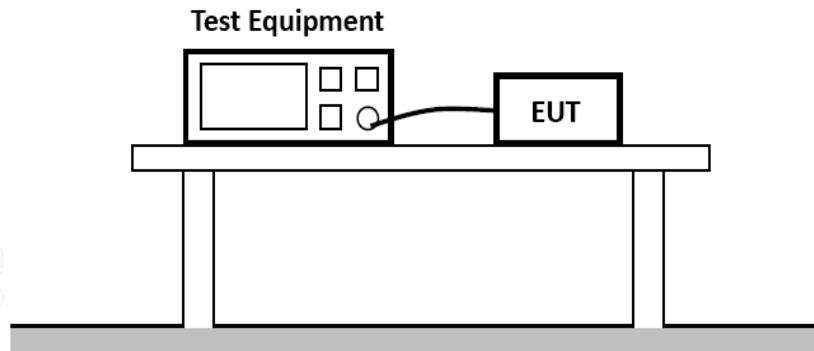
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5.8. SURGE IMMUNITY TEST

5.8.1. Block Diagram of Test Setup



5.8.2. Test Standard

EN 55035:2017/A11:2020 (EN 61000-4-5, Severity Level: Line to Line: Level 2, 1.0KV, Line to Earth: Level 3, 2.0KV)

5.8.3. Severity Levels and Performance Criterion

5.8.3.1. Severity level

Severity Level	Open-Circuit Test Voltage (KV)
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

5.8.3.2. Performance Criterion

Performance Criterion: B

5.8.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.8.1.

5.8.5. Operating Condition of EUT

5.8.5.1. Setup the EUT as shown in Section 5.8.1.

5.8.5.1. Turn on the power of all equipments.

5.8.5.1. Let the EUT work in test mode (1) and measure it.





5.8.6. Test Procedure

5.8.6.1. Set up the EUT and test generator as shown on Section 5.8.1.

5.8.6.2. For line to line coupling mode, provide a 1.0 KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.

5.8.6.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.

5.8.6.4. Different phase angles are done individually.

5.8.6.5. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

5.8.7. Test Results

PASS.

Refer to attached Annexe B.8



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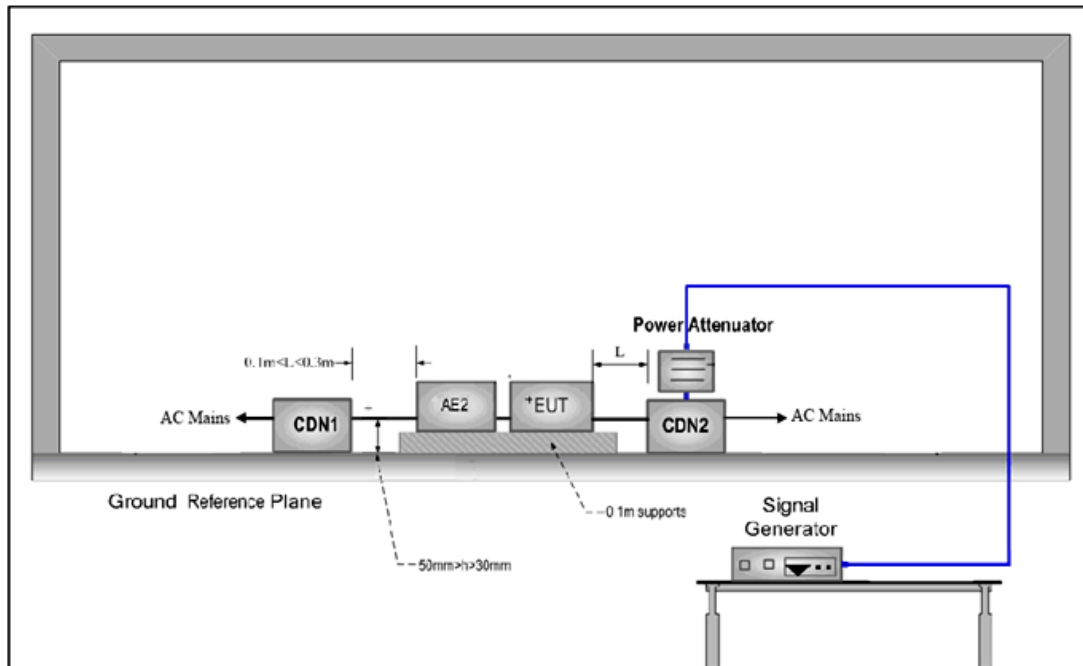
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5.9. INJECTED CURRENTS SUSCEPTIBILITY TEST

5.9.1. Block Diagram of Test Setup



5.9.2. Test Standard

EN 55035:2017/A11:2020(EN 61000-4-6, Severity Level: Level 2, (0.15MHz ~ 80MHz))

5.9.3. Severity Levels and Performance Criterion

5.9.3.1. Severity level

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

5.9.3.2. Performance Criterion

Performance Criterion: A

5.9.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.9.1.

5.9.5. Operating Condition of EUT

5.9.5.1. Setup the EUT as shown in Section 5.9.1.

5.9.5.2. Turn on the power of all equipments.

5.9.5.3. Let the EUT work in test mode(1) and measure it.



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5.9.6. Test Procedure

- 5.9.6.1. Set up the EUT, CDN and test generators as shown on Section 5.9.1.
- 5.9.6.2. Let the EUT work in test mode and measure it.
- 5.9.6.3. The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 5.9.6.4. The disturbance signal described below is injected to EUT through CDN.
- 5.9.6.5. The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 5.9.6.6. The frequency range is swept from 150kHz to 10MHz using 3V signal level, 10MHz to 30MHz using 3V to 1V signal level, 30MHz to 80MHz using 1V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.
- 5.9.6.7. The rate of sweep shall not exceed 1.5×10^{-3} decades/s. where the frequency is swept incrementally; the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 5.9.6.8. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

5.9.7. Test Results

PASS.

Refer to attached Annexe B.9



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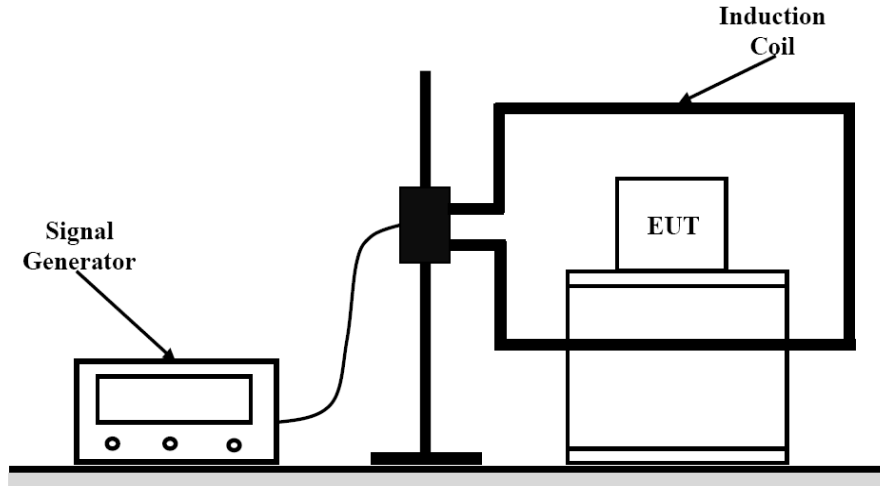
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5.10. MAGNETIC FIELD SUSCEPTIBILITY TEST

5.10.1. Block Diagram of Test Setup



5.10.2. Test Standard

EN 55035:2017/A11:2020 (EN 61000-4-8, Severity Level: Level 1, 1A/m)

5.10.3. Severity Levels and Performance Criterion

5.10.3.1. Severity level

Level	Field Strength (A/m)
1	1
2	3
3	10
4	30
5	100
X	Special

5.10.3.2. Performance Criterion

Performance Criterion: A

5.10.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.10.1.

5.10.5. Test Procedure

EUT is placed on an insulating support of 0.1m high above a table of 0.8m high. There is a minimum 1m*1m ground metallic plane put on this table. EUT is put in the center of the magnetic coil then two orientations of the magnetic coil, horizontal and vertical, shall be rotated in order to expose the EUT to the difference polarization magnetic field.

Record any performance degradation of the EUT during the test and judge the test result according to performance criterion.

5.10.6. Test Results

PASS.

Refer to attached Annexe B.10



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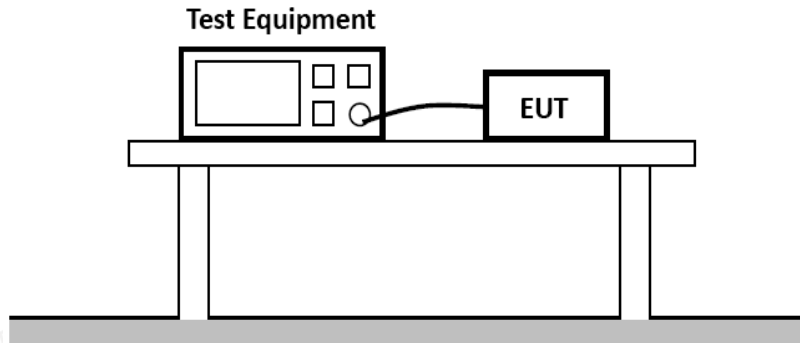
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5.11. VOLTAGE DIPS AND INTERRUPTIONS TEST

5.11.1. Block Diagram of Test Setup



5.11.2. Test Standard

EN 55035:2017/A11:2020 (EN IEC 61000-4-11)

5.11.3. Severity Levels and Performance Criterion

5.11.3.1. Severity level

Test Level		
Voltage Reduction $\%U_T$	Voltage Dips $\%U_T$	Duration (in Period)
100	0	0.5
100	0	1
30	70	5
Voltage Reduction $\%U_T$	Voltage Dips $\%U_T$	Duration (in Period)
100	0	250

5.11.3.2. Performance Criterion

Performance Criterion: B&C

5.11.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.11.1.

5.11.5. Operating Condition of EUT

5.11.5.1. Setup the EUT as shown in Section 5.11.1.

5.11.5.2. Turn on the power of all equipments.

5.11.5.3. Let the EUT work in test mode (1) and measure it.

5.11.6. Test Procedure

5.11.6.1. Set up the EUT and test generator as shown on Section 5.11.1.

5.11.6.2. The interruptions are introduced at selected phase angles with specified duration.

5.11.6.3. Record any degradation of performance.

5.11.7. Test Results

PASS.

Refer to attached Annexe B.11



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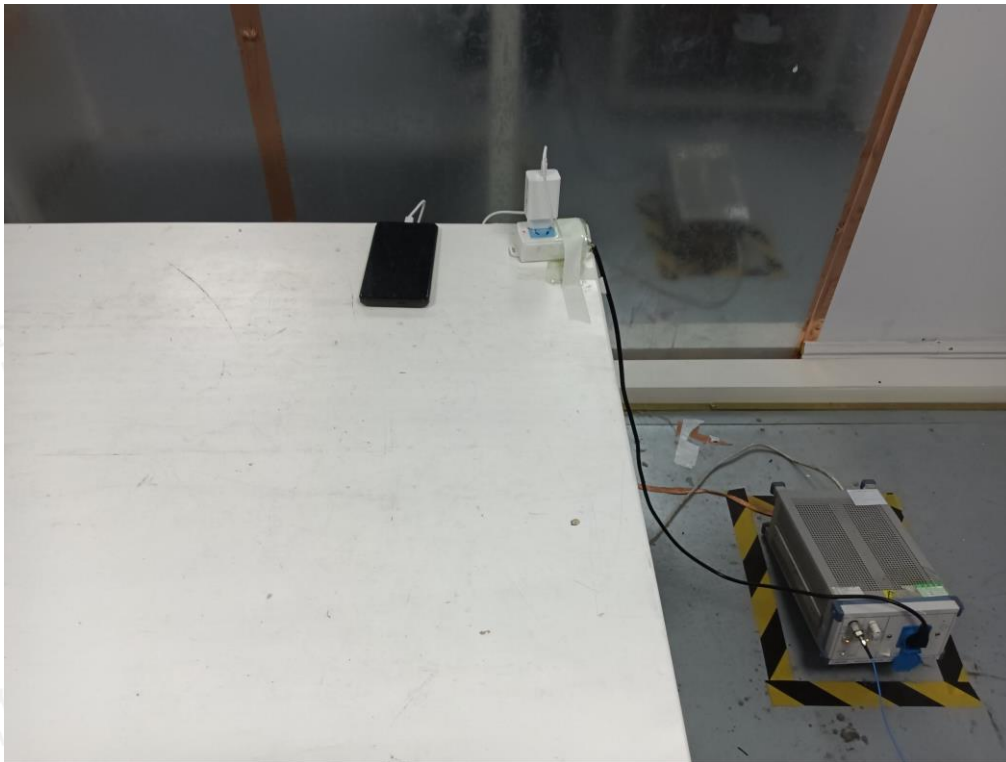
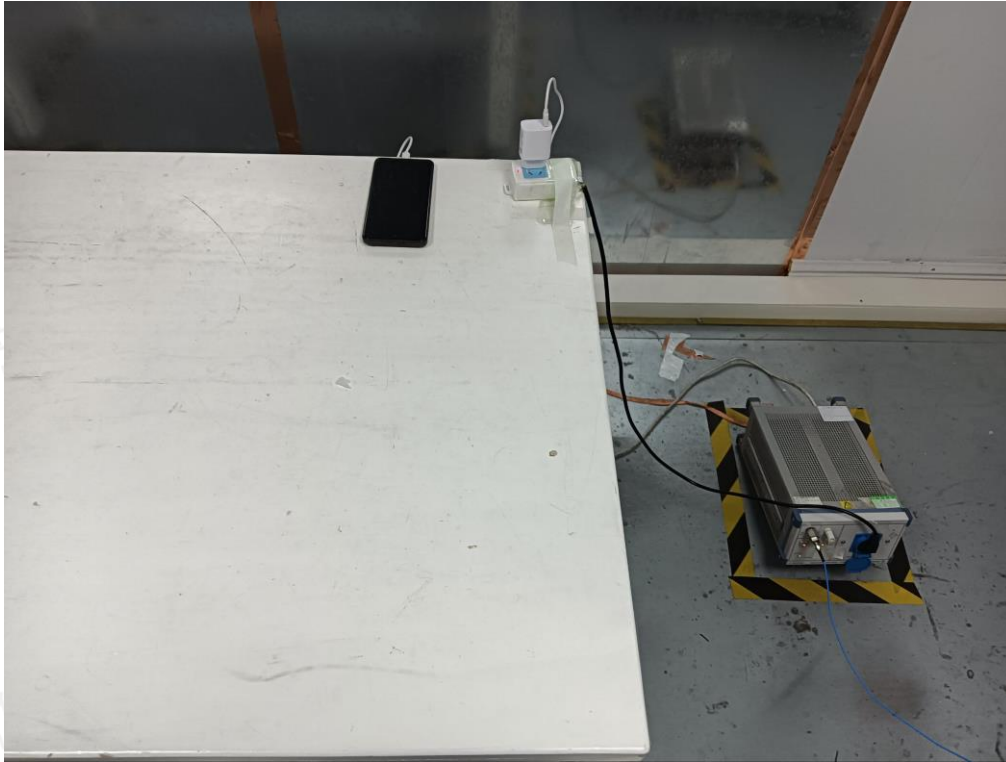
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Annexe A

(Test photograph)

A.1 Test Setup Photo of Power Line Conducted Measurement



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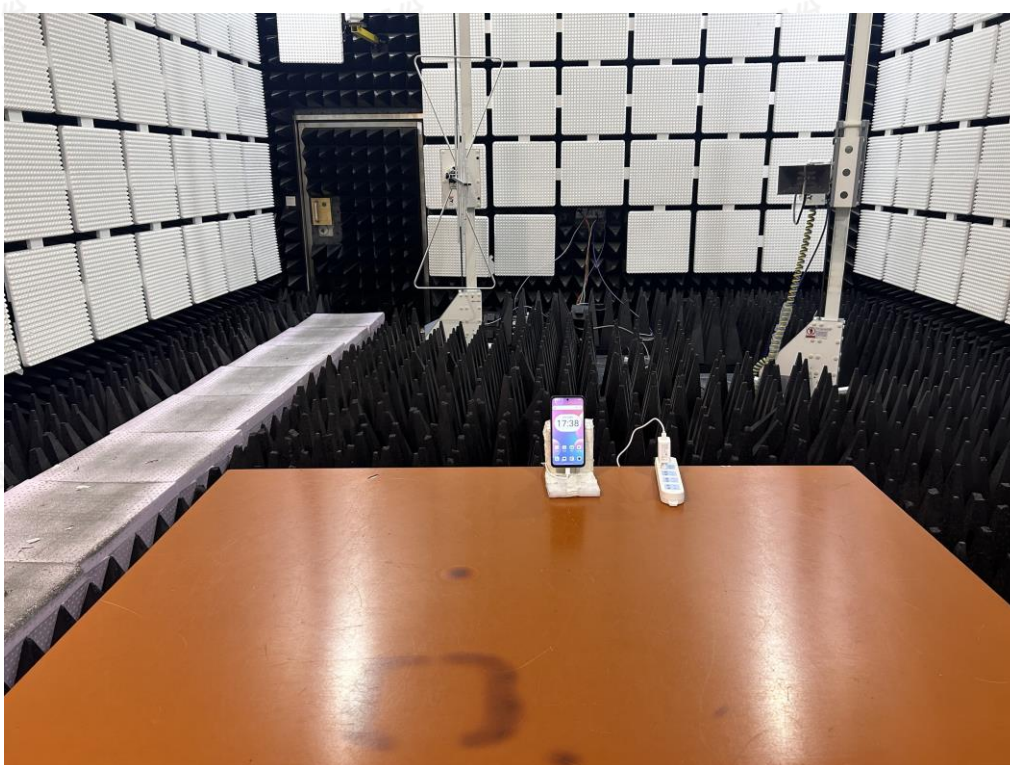
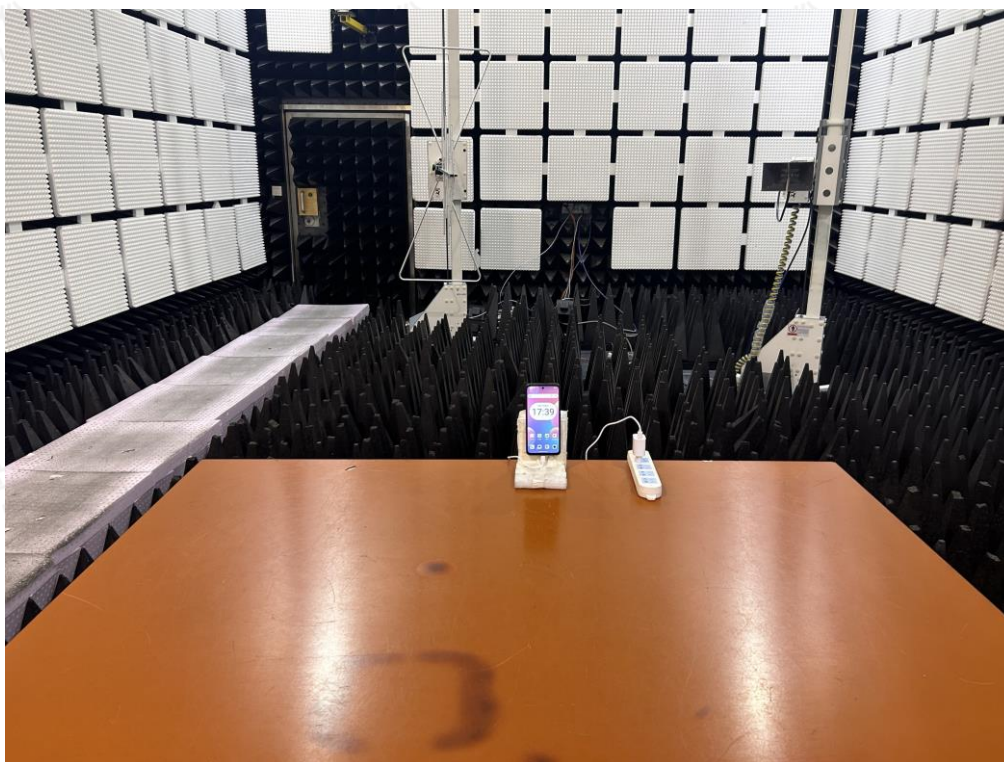
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A.2 Test Setup Photo of Radiated Measurement (Below 1 GHz & Above 1 GHz)





A.3 Test Setup Photo of Harmonic & Flicker Measurement



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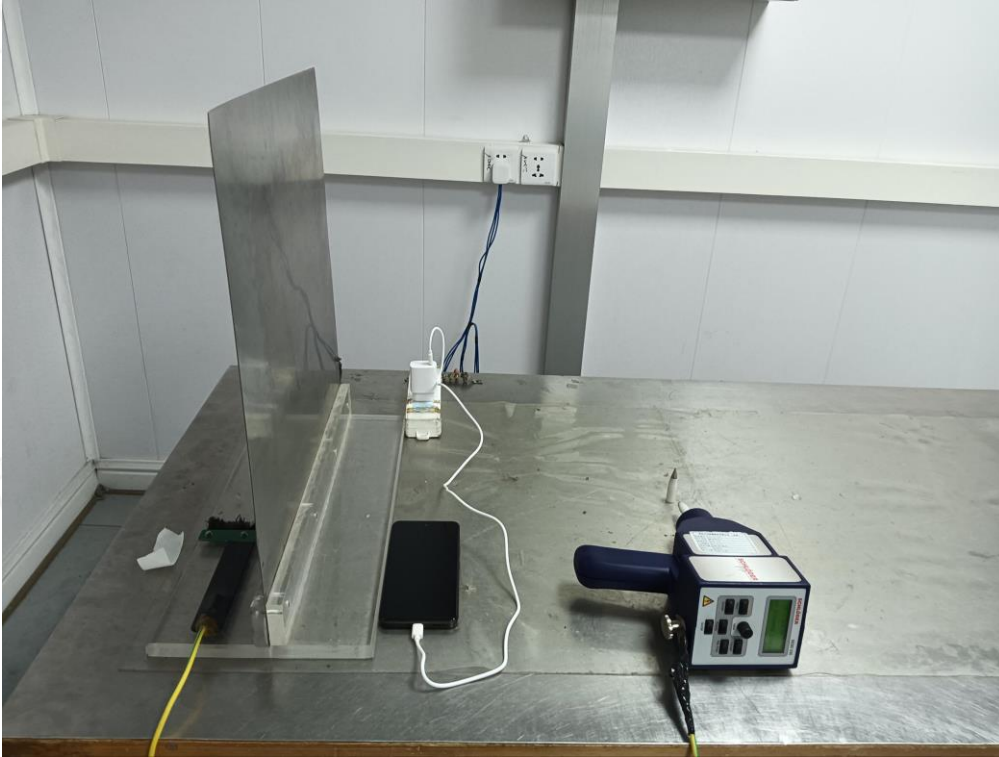
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A.4 Test Setup Photo of Electrostatic Discharge Test



A.5 Test Setup Photo of RF Electromagnetic Field Measurement

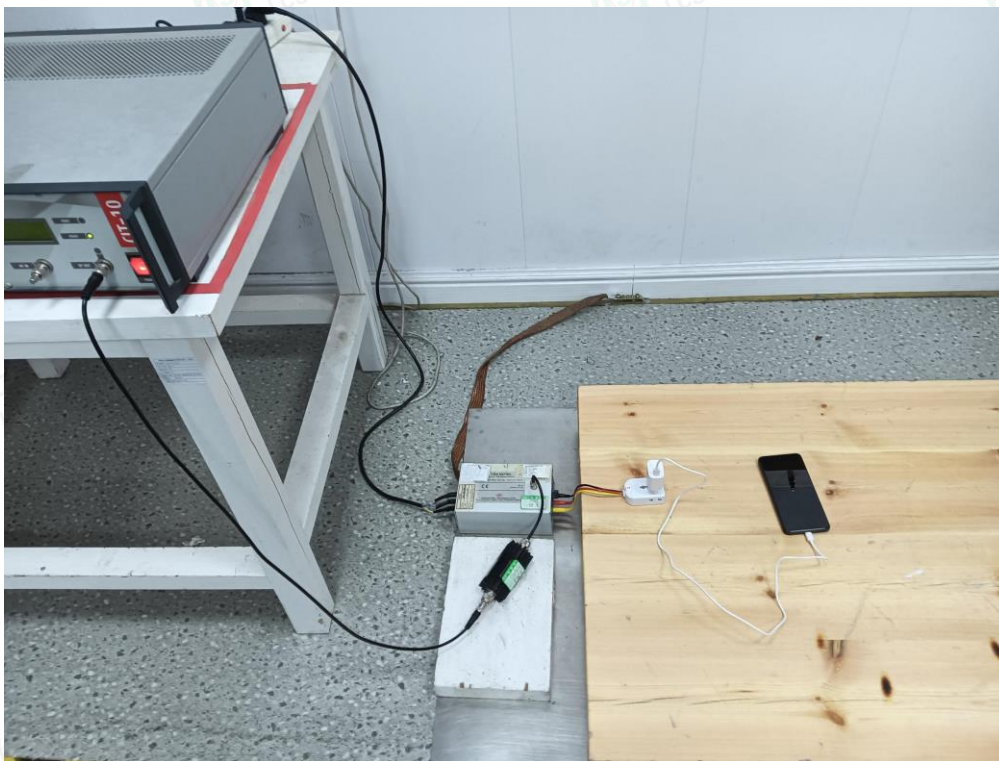




A.6 Photo of Electrical Fast Transient/Burst Test & Surge Immunity Test



A.7 Test Setup Photo of Injected Currents Susceptibility Test



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A.8 Test Setup Photo of Magnetic Field Immunity Test



A.9 Test Setup Photo of Voltage Dips and Interruptions Test



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**ANNEXE B**

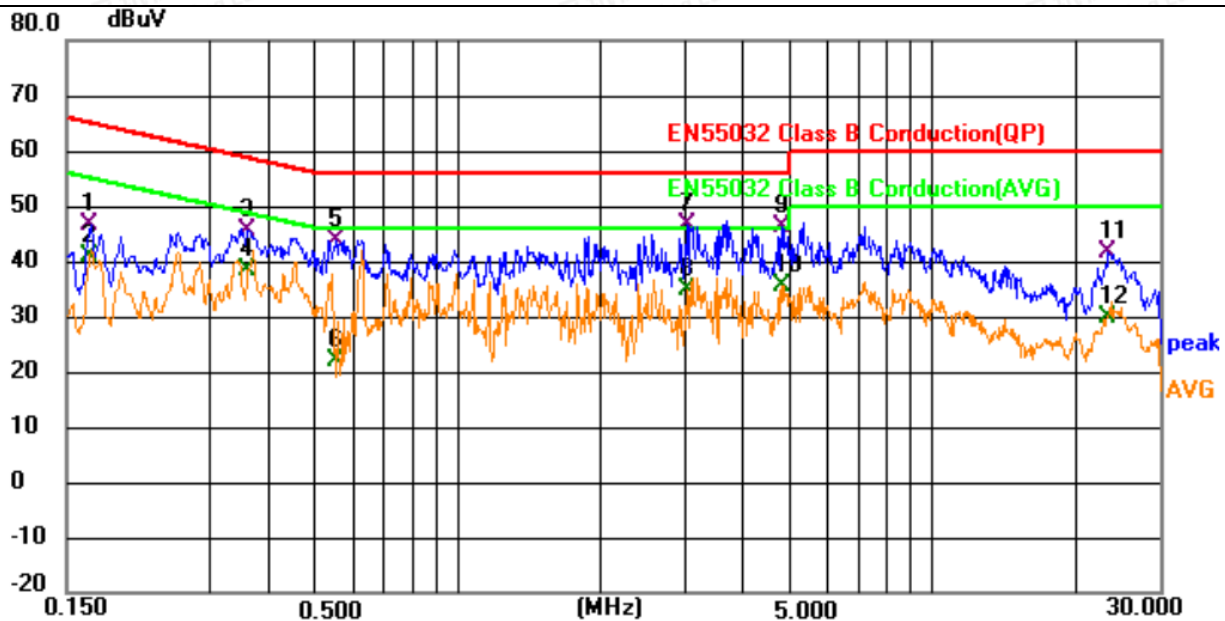
(Emission and Immunity test results)

B.1 POWER LINE CONDUCTED EMISSION MEASUREMENT

Adapter1 Model: TPD-203A120167VF01

Environmental Conditions:	22.3℃, 58.4% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1
Test Engineer:	Paddi Chen
Pol:	Line

Detailed results are shown below



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.168	26.83	19.81	46.64	65.06	-18.42	QP	
2		0.168	21.05	19.81	40.86	55.06	-14.20	AVG	
3		0.361	25.76	19.93	45.69	58.71	-13.02	QP	
4		0.361	18.51	19.93	38.44	48.71	-10.27	AVG	
5		0.555	24.10	19.67	43.77	56.00	-12.23	QP	
6		0.555	2.21	19.67	21.88	46.00	-24.12	AVG	
7	*	3.034	27.34	19.24	46.58	56.00	-9.42	QP	
8		3.034	15.62	19.24	34.86	46.00	-11.14	AVG	
9		4.812	27.36	18.98	46.34	56.00	-9.66	QP	
10		4.812	16.65	18.98	35.63	46.00	-10.37	AVG	
11		23.406	22.70	18.82	41.52	60.00	-18.48	QP	
12		23.406	10.99	18.82	29.81	50.00	-20.19	AVG	



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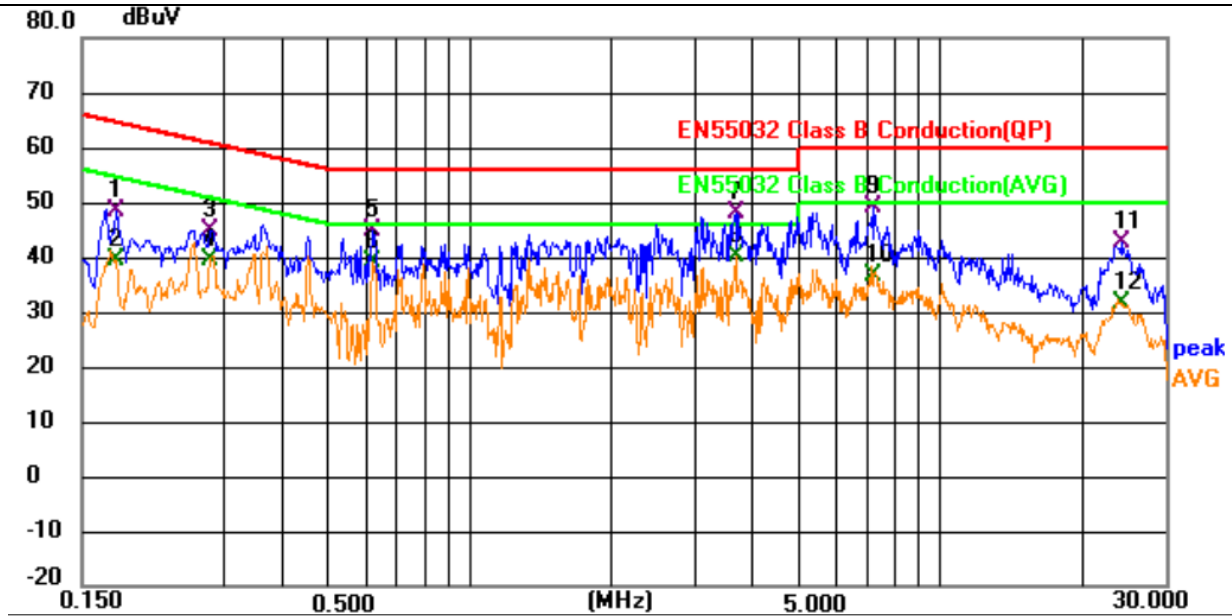
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Environmental Conditions:	22.3°C, 58.4% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1
Test Engineer:	Paddi Chen
Pol:	Neutral

Detailed results are shown below



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.177	28.55	19.69	48.24	64.63	-16.39	QP	
2		0.177	19.83	19.69	39.52	54.63	-15.11	AVG	
3		0.281	25.14	19.78	44.92	60.79	-15.87	QP	
4		0.281	19.65	19.78	39.43	50.79	-11.36	AVG	
5		0.623	25.36	19.46	44.82	56.00	-11.18	QP	
6		0.623	19.55	19.46	39.01	46.00	-6.99	AVG	
7		3.669	28.98	18.98	47.96	56.00	-8.04	QP	
8	*	3.669	21.16	18.98	40.14	46.00	-5.86	AVG	
9		7.237	29.43	19.68	49.11	60.00	-10.89	QP	
10		7.237	16.83	19.68	36.51	50.00	-13.49	AVG	
11		24.144	23.39	19.30	42.69	60.00	-17.31	QP	
12		24.144	12.22	19.30	31.52	50.00	-18.48	AVG	



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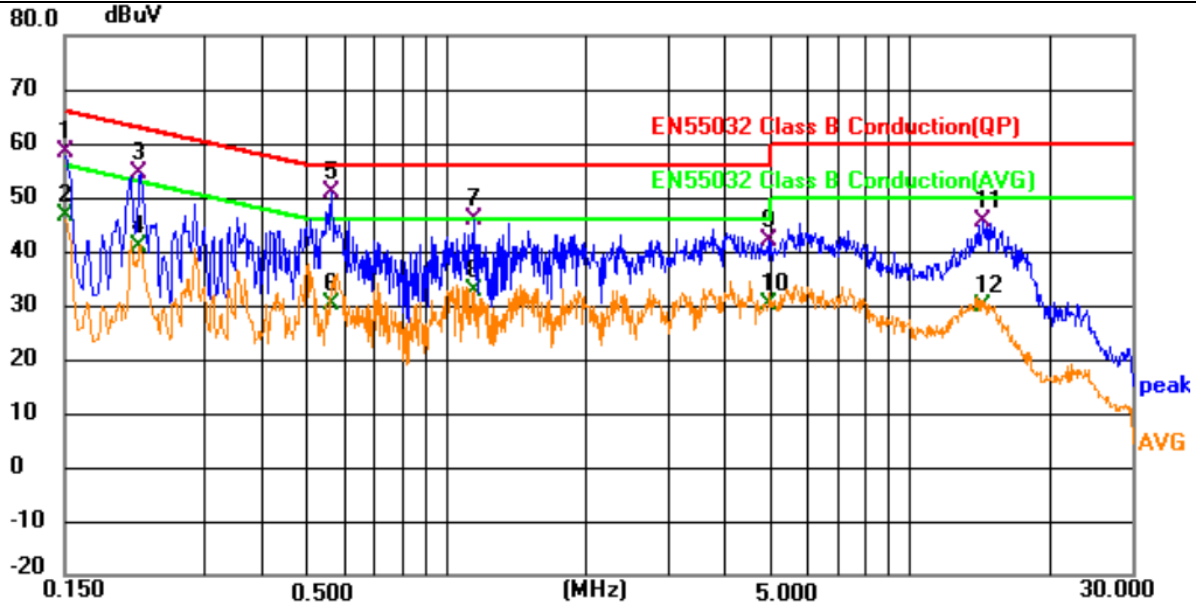
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Adapter2 Model: HJ-PD18W-EU

Environmental Conditions:	22.3°C, 58.4% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1
Test Engineer:	Paddi Chen
Pol:	Line

Detailed results are shown below



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.150	38.67	19.89	58.56	66.00	-7.44	QP	
2		0.150	26.69	19.89	46.58	56.00	-9.42	AVG	
3		0.217	34.80	19.67	54.47	62.93	-8.46	QP	
4		0.217	21.22	19.67	40.89	52.93	-12.04	AVG	
5	*	0.564	31.12	19.64	50.76	56.00	-5.24	QP	
6		0.564	10.57	19.64	30.21	46.00	-15.79	AVG	
7		1.145	26.83	19.12	45.95	56.00	-10.05	QP	
8		1.145	13.61	19.12	32.73	46.00	-13.27	AVG	
9		4.934	23.15	18.96	42.11	56.00	-13.89	QP	
10		4.934	11.27	18.96	30.23	46.00	-15.77	AVG	
11		14.379	25.76	19.90	45.66	60.00	-14.34	QP	
12		14.379	10.10	19.90	30.00	50.00	-20.00	AVG	



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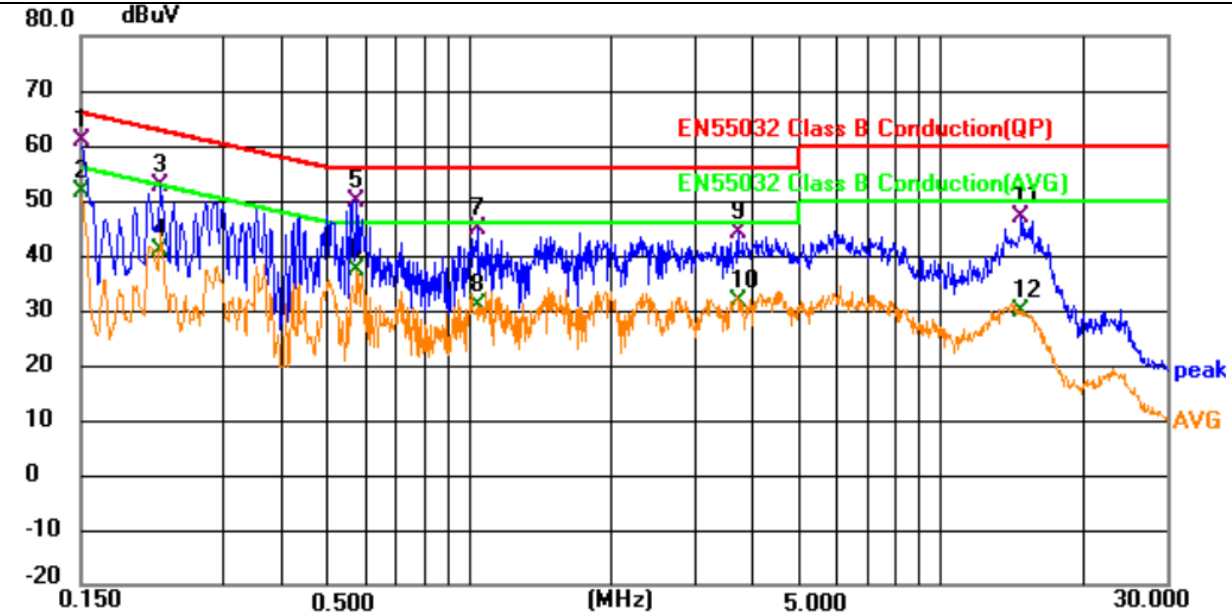
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Environmental Conditions:	22.3°C, 58.4% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1
Test Engineer:	Paddi Chen
Pol:	Neutral

Detailed results are shown below



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.150	41.43	19.59	61.02	66.00	-4.98	QP	
2	*	0.150	32.11	19.59	51.70	56.00	-4.30	AVG	
3		0.222	32.76	19.77	52.53	62.74	-10.21	QP	
4		0.222	21.14	19.77	40.91	52.74	-11.83	AVG	
5		0.578	30.44	19.43	49.87	56.00	-6.13	QP	
6		0.578	17.76	19.43	37.19	46.00	-8.81	AVG	
7		1.041	25.99	18.80	44.79	56.00	-11.21	QP	
8		1.041	12.15	18.80	30.95	46.00	-15.05	AVG	
9		3.709	25.18	18.99	44.17	56.00	-11.83	QP	
10		3.709	12.44	18.99	31.43	46.00	-14.57	AVG	
11		14.780	27.38	19.73	47.11	60.00	-12.89	QP	
12		14.780	10.02	19.73	29.75	50.00	-20.25	AVG	



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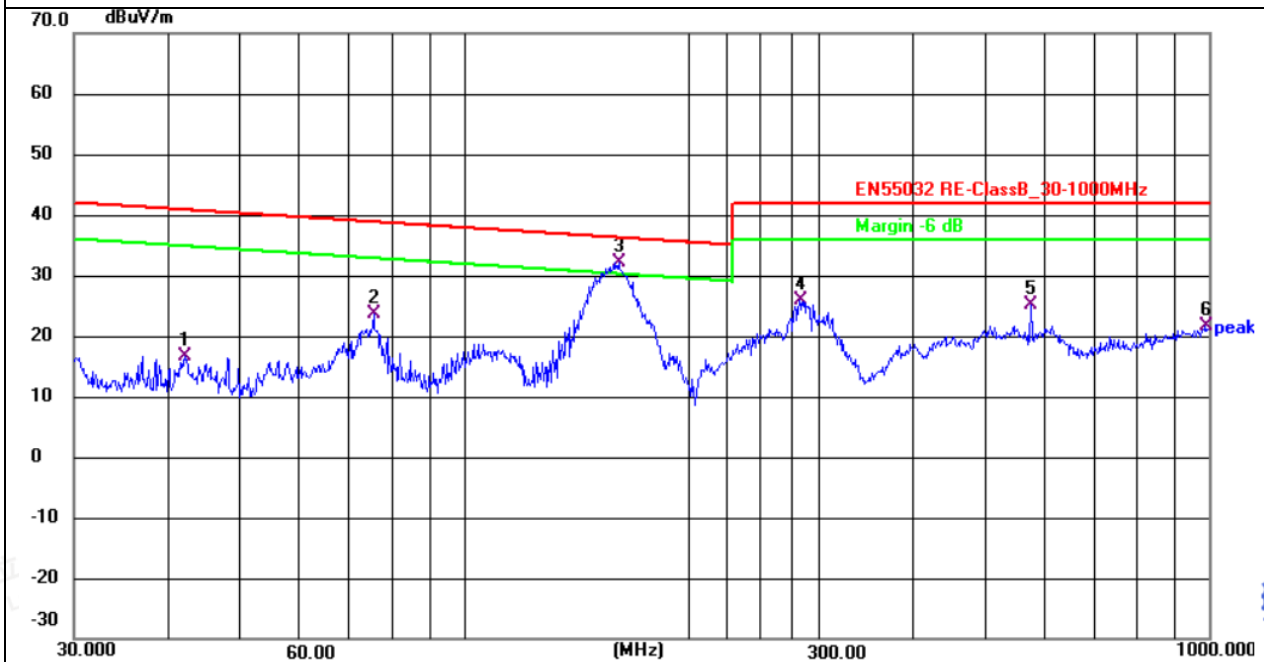
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**B.2 Radiated Disturbance Test Results (30MHz to 1000MHz)**

Adapter1 Model: TPD-203A120167VF01

Environmental Conditions:	23.8℃, 52.3% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1
Test Engineer:	Paddi Chen
Pol:	Horizontal

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.3022	33.27	-16.73	16.54	40.82	-24.28	QP
2	75.7114	43.23	-19.59	23.64	38.82	-15.18	QP
3	161.4742	52.83	-20.75	32.08	36.22	-4.14	QP
4	281.9946	42.07	-16.15	25.92	42.00	-16.08	QP
5	576.6443	35.86	-10.80	25.06	42.00	-16.94	QP
6	989.5355	28.42	-6.72	21.70	42.00	-20.30	QP



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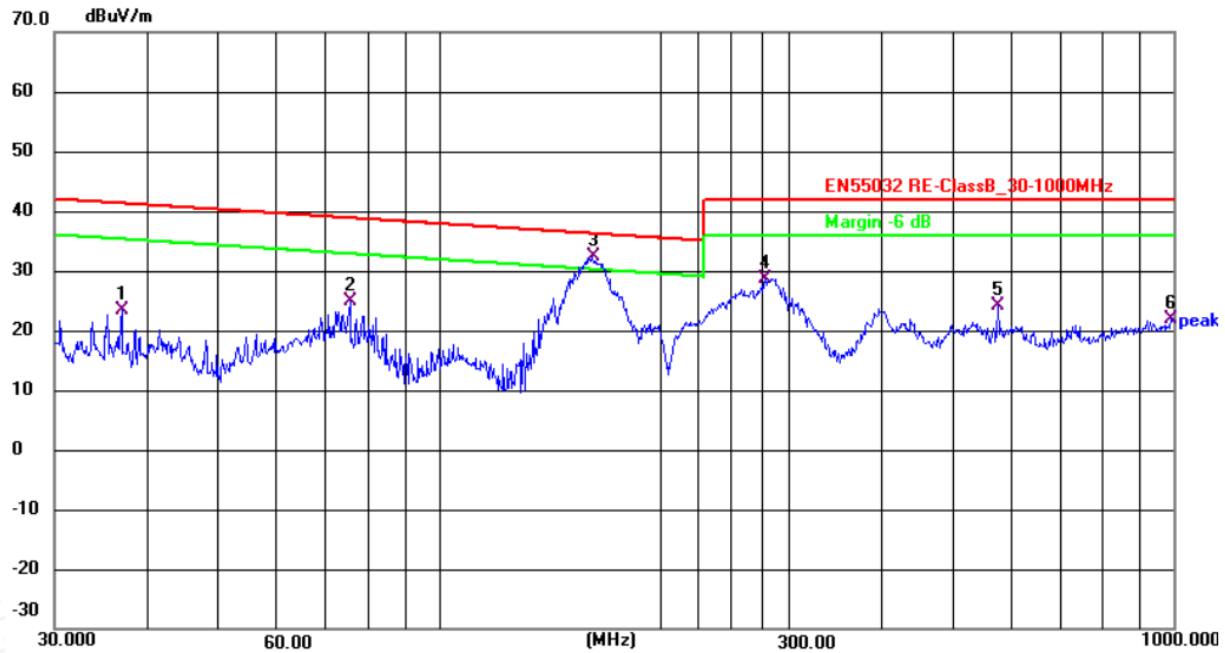
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Environmental Conditions:	23.8°C, 52.3% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1
Test Engineer:	Paddi Chen
Pol:	Vertical

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.0248	40.96	-17.69	23.27	41.28	-18.01	QP
2	75.7114	44.52	-19.71	24.81	38.82	-14.01	QP
3	162.0414	51.96	-19.65	32.31	36.20	-3.89	QP
4	278.0668	44.08	-15.40	28.68	42.00	-13.32	QP
5	576.6443	35.00	-10.83	24.17	42.00	-17.83	QP
6	993.0114	29.31	-7.38	21.93	42.00	-20.07	QP



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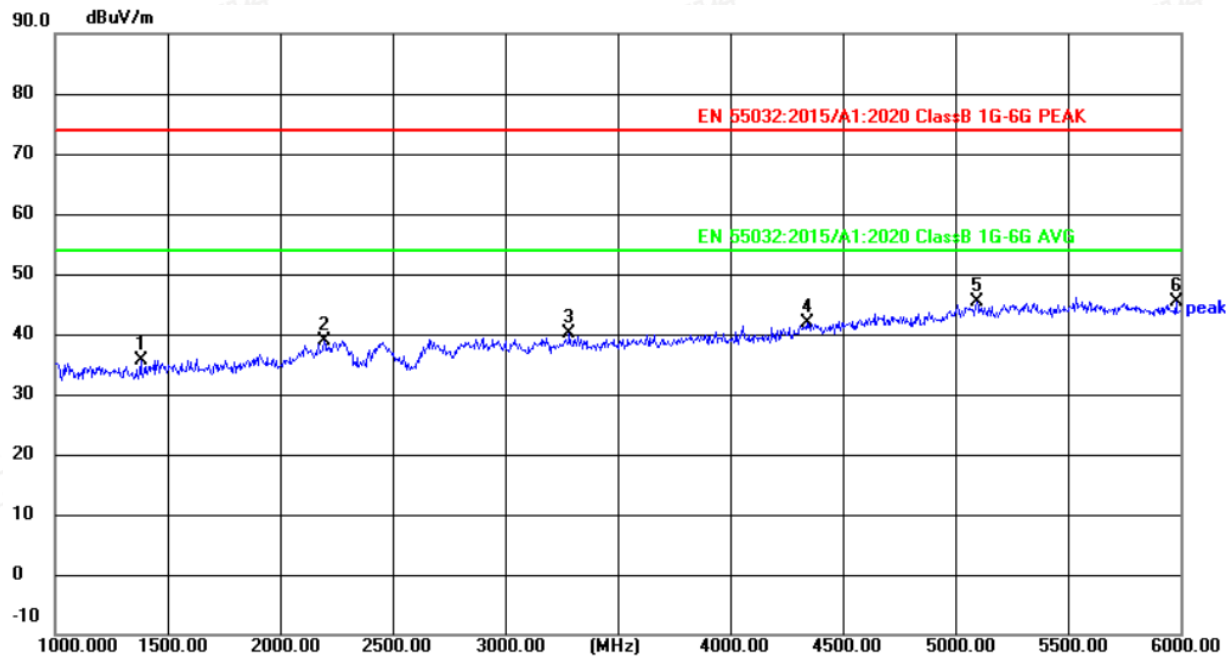
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**Radiated Disturbance Test Results (Above 1GHz)**

Adapter1 Model: TPD-203A120167VF01

Environmental Conditions:	23.5℃, 52.1% RH
Test Voltage:	AC 230V,50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1 (Above 1GHz)
Test Engineer:	Paddi Chen
Detector Function:	Peak + AV
Pol:	Vertical

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1380.000	50.96	-15.25	35.71	74.00	-38.29	peak
2	2195.000	51.34	-12.42	38.92	74.00	-35.08	peak
3	3285.000	49.53	-9.49	40.04	74.00	-33.96	peak
4	4340.000	49.15	-7.21	41.94	74.00	-32.06	peak
5	5095.000	49.26	-3.94	45.32	74.00	-28.68	peak
6	5980.000	48.95	-3.67	45.28	74.00	-28.72	peak



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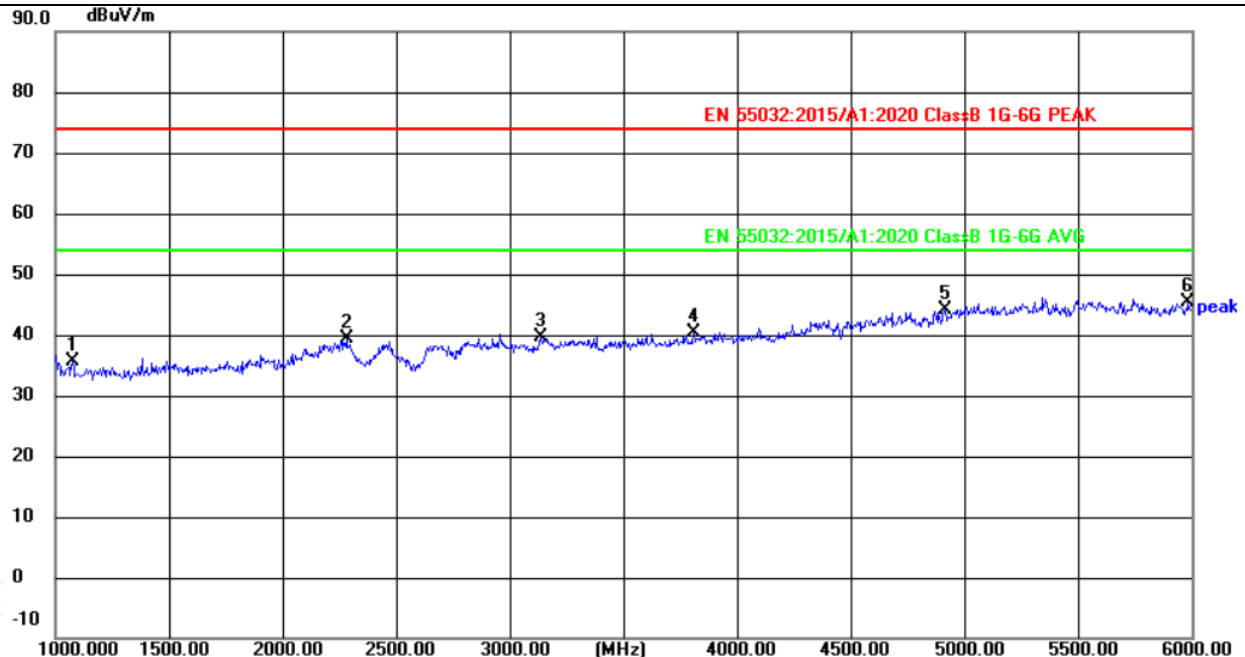
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Environmental Conditions:	23.5°C, 52.1% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1 (Above 1GHz)
Detector Function:	Peak + AV
Test Engineer:	Paddi Chen
Pol:	Horizontal

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1075.000	50.56	-14.89	35.67	74.00	-38.33	peak
2	2280.000	49.90	-10.55	39.35	74.00	-34.65	peak
3	3135.000	49.03	-9.51	39.52	74.00	-34.48	peak
4	3810.000	48.42	-7.99	40.43	74.00	-33.57	peak
5	4915.000	47.71	-3.64	44.07	74.00	-29.93	peak
6	5985.000	48.12	-2.86	45.26	74.00	-28.74	peak

Note:

1. Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
2. Measurements above show only up to 6 maximum emissions noted.
3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Margin= Reading level + Correct factor – Limit
Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor



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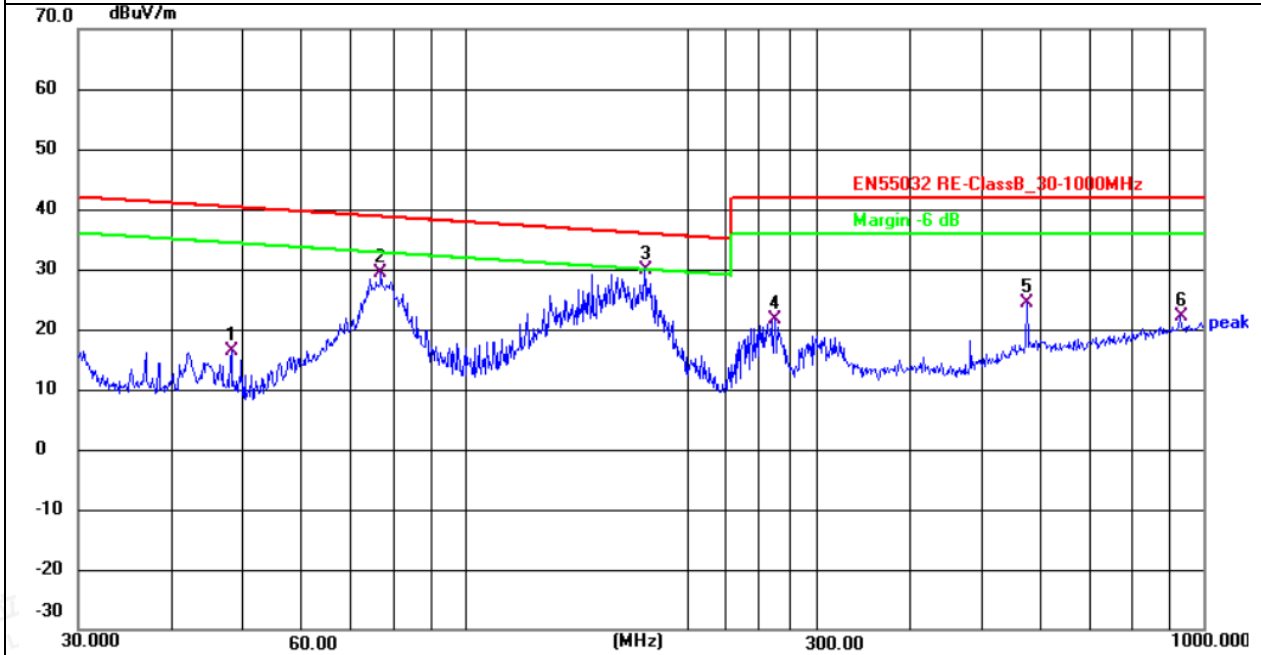
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Adapter2 Model: HJ-PD18W-EU

Environmental Conditions:	23.8°C, 52.3% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1
Test Engineer:	Paddi Chen
Pol:	Horizontal

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.3318	32.55	-16.22	16.33	40.36	-24.03	QP
2	77.0505	49.04	-19.71	29.33	38.76	-9.43	QP
3	175.0368	50.04	-20.15	29.89	35.94	-6.05	QP
4	262.8955	38.36	-16.67	21.69	42.00	-20.31	QP
5	576.6443	35.23	-10.80	24.43	42.00	-17.57	QP
6	929.0082	29.38	-7.31	22.07	42.00	-19.93	QP



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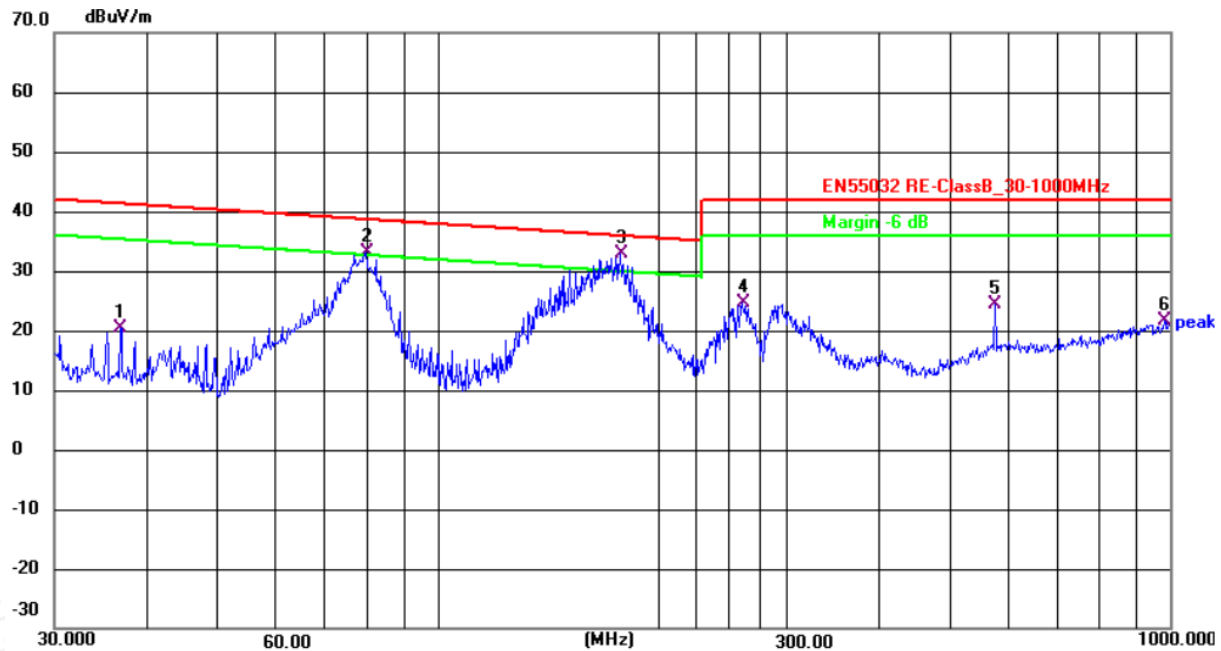
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Environmental Conditions:	23.8°C, 52.3% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1
Test Engineer:	Paddi Chen
Pol:	Vertical

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8953	37.99	-17.69	20.30	41.29	-20.99	QP
2	79.8003	52.94	-19.87	33.07	38.64	-5.57	QP
3	177.5092	51.73	-18.90	32.83	35.89	-3.06	QP
4	261.0583	40.01	-15.49	24.52	42.00	-17.48	QP
5	576.6443	35.28	-10.83	24.45	42.00	-17.55	QP
6	982.6200	29.13	-7.62	21.51	42.00	-20.49	QP



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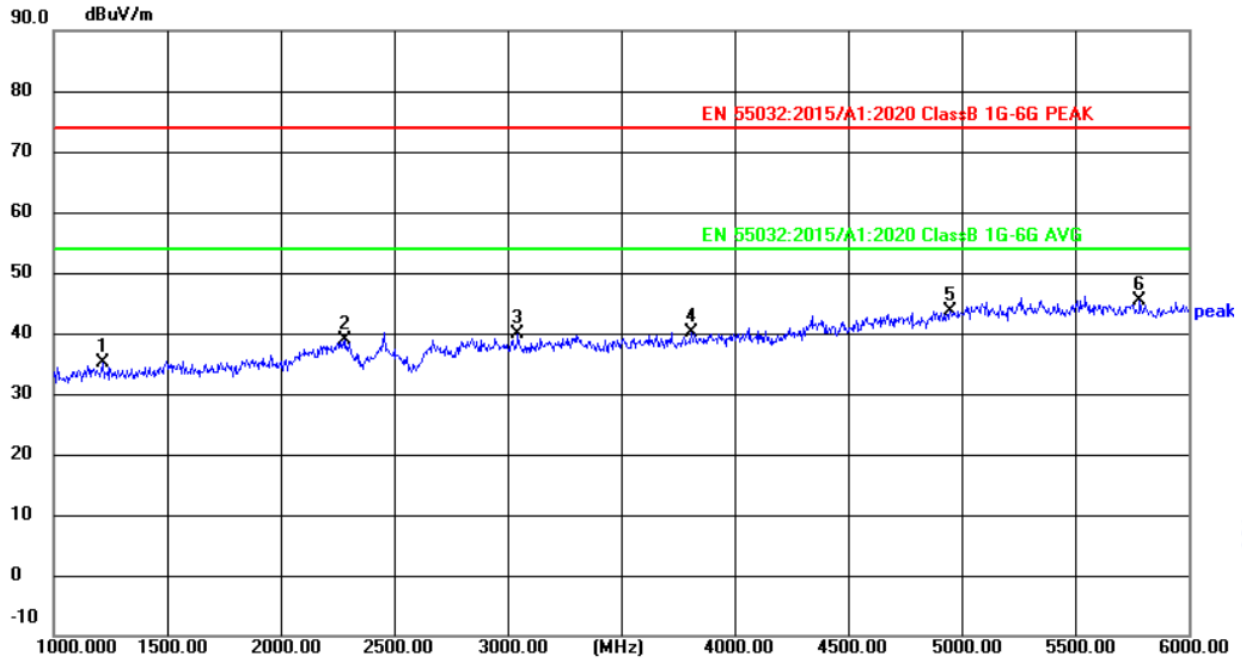
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**Radiated Disturbance Test Results (Above 1GHz)**

Adapter2 Model: HJ-PD18W-EU

Environmental Conditions:	23.5°C, 52.1% RH
Test Voltage:	AC 230V,50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1 (Above 1GHz)
Test Engineer:	Paddi Chen
Detector Function:	Peak + AV
Pol:	Vertical

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1215.000	50.36	-15.22	35.14	74.00	-38.86	peak
2	2285.000	50.91	-12.10	38.81	74.00	-35.19	peak
3	3045.000	49.44	-9.58	39.86	74.00	-34.14	peak
4	3810.000	49.03	-8.87	40.16	74.00	-33.84	peak
5	4950.000	47.95	-4.36	43.59	74.00	-30.41	peak
6	5785.000	48.87	-3.48	45.39	74.00	-28.61	peak



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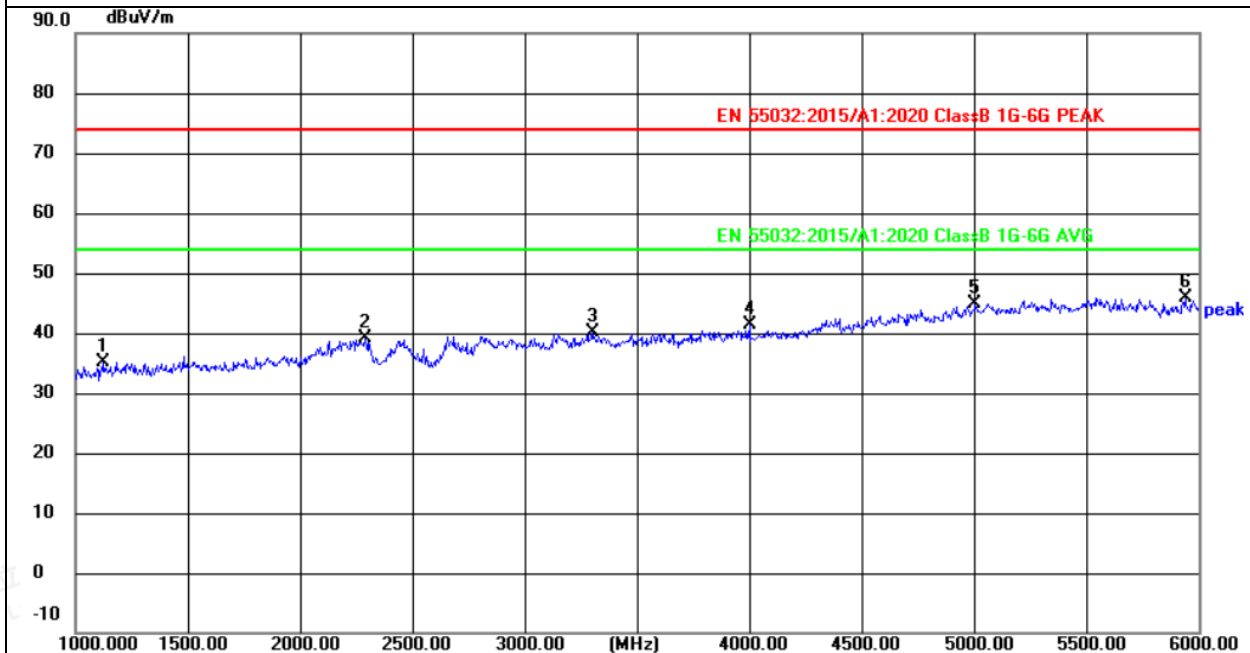
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Environmental Conditions:	23.5°C, 52.1% RH
Test Voltage:	AC 230V, 50Hz
Test Model:	NOTE 60
Test Mode:	Mode 1 (Above 1GHz)
Detector Function:	Peak + AV
Test Engineer:	Paddi Chen
Pol:	Horizontal

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1125.000	49.69	-14.63	35.06	74.00	-38.94	peak
2	2290.000	49.54	-10.46	39.08	74.00	-34.92	peak
3	3300.000	49.06	-9.05	40.01	74.00	-33.99	peak
4	4000.000	48.81	-7.44	41.37	74.00	-32.63	peak
5	5005.000	48.14	-3.26	44.88	74.00	-29.12	peak
6	5940.000	48.43	-2.60	45.83	74.00	-28.17	peak

Note:

- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- Measurements above show only up to 6 maximum emissions noted.
- Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Margin= Reading level + Correct factor – Limit
Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor



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B.3 HARMONIC CURRENT EMISSION MEASUREMENT

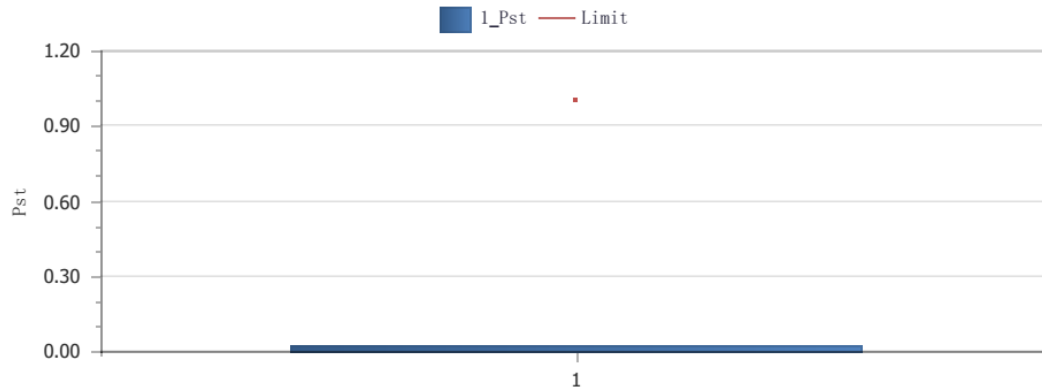
Because the power of EUT is less than 75W, according to standard EN 61000-3-2, harmonic current is unnecessary to test.

B.4 VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT

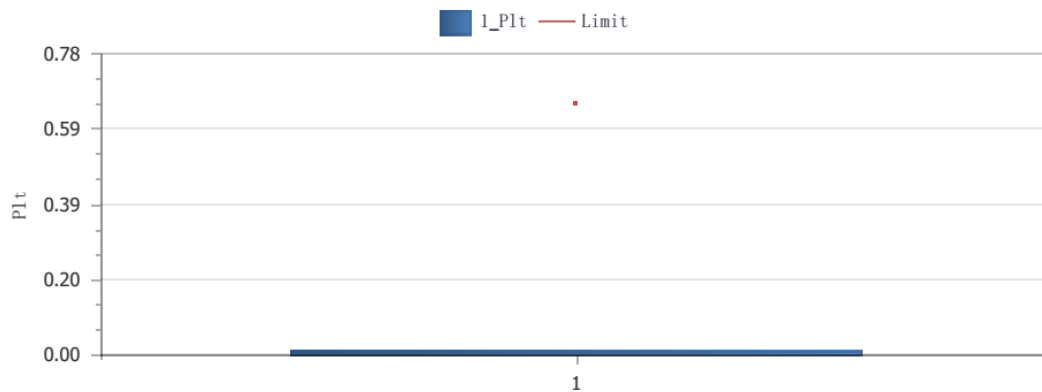
Adapter1 Model: TPD-203A120167VF01

Test Model	NOTE 60	Test Engineer	Paddi Chen
Environmental Conditions	24.3°C, 54.8% RH	Test Voltage	AC 230V/50Hz

Pst and Limit



Plt and Limit



Relevant Parameter and Judgment During Test Period

Voltage at end of test	230.088V		
Voltage Fluctuation and Flicker	Test Value	Test Limit	Result
Tmax	0ms	500ms	Pass
dc	0.00%	3.30%	Pass
dmax	0.00%	4.00%	Pass
Pst	0.023	1.000	Pass
Plt	0.010	0.650	Pass

Elem1 Test Parameters

Count	dc (%)	dmax (%)	Tmax (ms)	Pst	Plt
1	0.00	0.00	0.00	0.023	0.010



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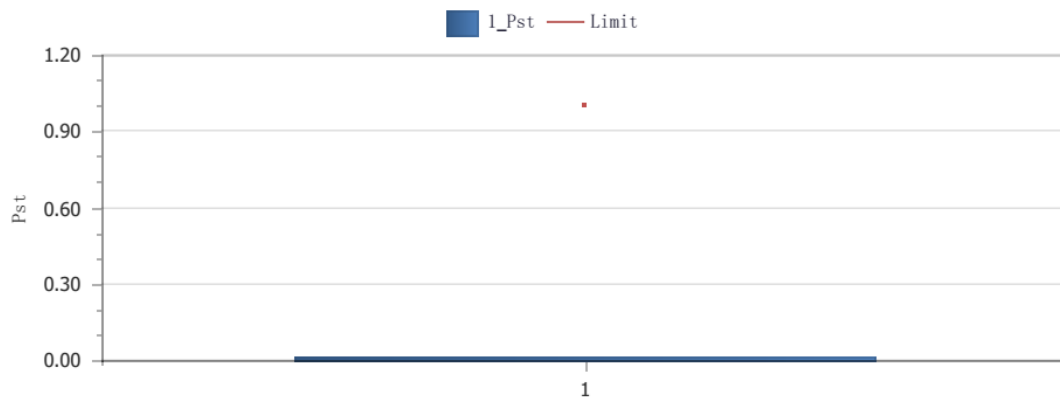
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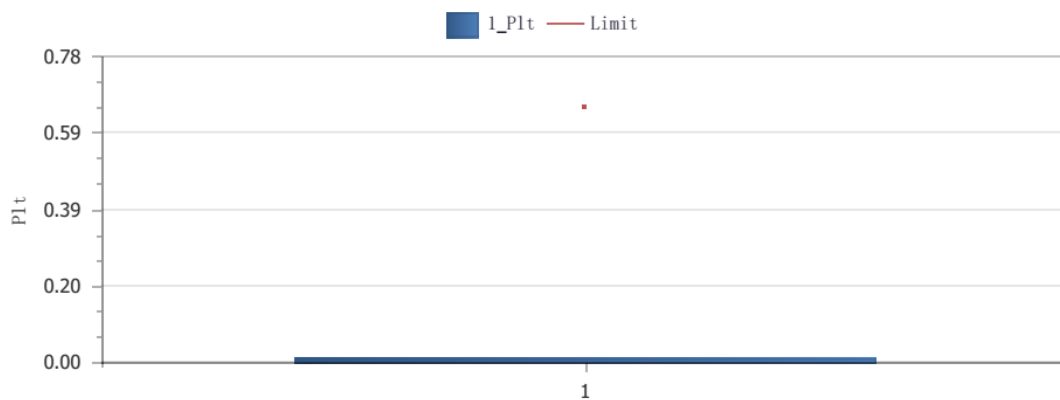
Adapter2 Model: HJ-PD18W-EU

Test Model	NOTE 60	Test Engineer	Paddi Chen
Environmental Conditions	24.3°C, 54.8% RH	Test Voltage	AC 230V/50Hz

Pst and Limit



Plt and Limit



Relevant Parameter and Judgment During Test Period

Voltage at end of test	230.031V		
Voltage Fluctuation and Flicker	Test Value	Test Limit	Result
Tmax	0ms	500ms	Pass
dc	0.00%	3.30%	Pass
dmax	0.00%	4.00%	Pass
Pst	0.017	1.000	Pass
Plt	0.007	0.650	Pass

Elem1 Test Parameters

Count	dc (%)	dmax (%)	Tmax (ms)	Pst	Plt
1	0.00	0.00	0.00	0.017	0.007



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B.5 ELECTROSTATIC DISCHARGE IMMUNITY TEST

Electrostatic Discharge Test Results

Standard	<input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.5°C
M/N	NOTE 60	Humidity	53.2%
Criterion	B	Pressure	1021mbar
Test Mode	Mode 1	Test Engineer	Paddi Chen

Air Discharge

Test Points	Test Levels			Results		
	± 2kV	± 4kV	± 8kV	Passed	Fail	Performance Criterion
Front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Top	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Bottom	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B

Contact Discharge

Test Points	Test Levels		Results		
	± 2 kV	±4 kV	Passed	Fail	Performance Criterion
Front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Top	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Bottom	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B

Discharge To Horizontal Coupling Plane

Side of EUT	Test Levels		Results		
	± 2 kV	± 4 kV	Passed	Fail	Performance Criterion
Front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B

Discharge To Vertical Coupling Plane

Side of EUT	Test Levels		Results		
	± 2 kV	± 4 kV	Passed	Fail	Performance Criterion
Front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B



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B.6 RF FIELD STRENGTH SUSCEPTIBILITY TEST

RF Field Strength Susceptibility Test Results

Standard	<input type="checkbox"/> IEC 61000-4-3 <input checked="" type="checkbox"/> EN IEC 61000-4-3		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.5°C
M/N	NOTE 60	Humidity	54.2%
Field Strength	3 V/m	Criterion	A
Test Mode	Mode 1	Test Engineer	Paddi Chen
Test Frequency	80MHz to 1000MHz (swept test) 1800MHz, 2600MHz, 3500MHz, 5000MHz (spot test)		
Modulation	<input type="checkbox"/> None <input type="checkbox"/> Pulse <input checked="" type="checkbox"/> AM 1KHz 80%		
Steps	1%		

	Horizontal	Vertical
Front	PASS	PASS
Right	PASS	PASS
Rear	PASS	PASS
Left	PASS	PASS

Test Equipment:

1. Signal Generator: 2031 (MARCONI)
2. Power Amplifier: 500A100 & 100W/1000M1 (A&R)
3. Power Antenna: 3108 (EMCO) & AT1080 (A&R)
4. Field Monitor: FM2000 (A&R)

Note:



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B.7 ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

Electrical Fast Transient/Burst Test Results

Standard	<input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.9°C
M/N	NOTE 60	Humidity	54.5%
Test Mode	Mode 1	Criterion	B
Test Engineer	Paddi Chen		

Line	Test Voltage	Result (+)	Result (-)
L	1KV	PASS	PASS
N	1KV	PASS	PASS
L-N	1KV	PASS	PASS
L-PE			
N-PE			
L-N-PE			
Signal Line			
I/O Cable			

Note:



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B.8 SURGE IMMUNITY TEST

Surge Immunity Test Result			
Standard	<input type="checkbox"/> IEC 61000-4-5 <input checked="" type="checkbox"/> EN 61000-4-5		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.6℃
M/N	NOTE 60	Humidity	53.4%
Test Mode	Mode 1	Criterion	B
Test Engineer	Paddi Chen		

Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result
L-N	+	90°	5	1.0	PASS
	-	270°	5	1.0	PASS
L-PE					
N-PE					
Signal Line					
Note					





B.9 INJECTED CURRENTS SUSCEPTIBILITY TEST

Injected Currents Susceptibility Test Results			
Standard	<input type="checkbox"/> IEC 61000-4-6 <input checked="" type="checkbox"/> EN 61000-4-6		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.2℃
M/N	NOTE 60	Humidity	53.5%
Test Mode	Mode 1	Criterion	A
Test Engineer	Paddi Chen		

Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
0.15 ~ 80	AC Mains	3V	A	PASS

Remark:

1. Modulation Signal:1kHz 80% AM

Note:





B.10 MAGNETIC FIELD SUSCEPTIBILITY TEST

Magnetic Field Immunity Test Result			
Standard	<input type="checkbox"/> IEC 61000-4-8 <input checked="" type="checkbox"/> EN 61000-4-8		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.7℃
M/N	NOTE 60	Humidity	54.1%
Test Mode	Mode 1	Criterion	A
Test Engineer	Paddi Chen		

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
1	5 mins	X	A	PASS
1	5 mins	Y	A	PASS
1	5 mins	Z	A	PASS

Note:





B.11 VOLTAGE DIPS AND INTERRUPTIONS TEST

Voltage Dips And Interruptions Test Results			
Standard	<input type="checkbox"/> IEC 61000-4-11 <input checked="" type="checkbox"/> EN 61000-4-11		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.1℃
M/N	NOTE 60	Humidity	53.7%
Test Mode	Mode 1	Criterion	B&C
Test Engineer	Paddi Chen		

Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion	Result
0	100	0.5P	B	PASS
70	30	25P	C	PASS
0	100	250P	C	PASS

Note:





6. PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix C for Photographs of The EUT.

----- THE END OF TEST REPORT -----



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