

FCC Test Report

Report No.: AGC14499241101FR03A

FCC ID : 2APPZ-W610H

APPLICATION PURPOSE : Class II Permissive Change

PRODUCT DESIGNATION : Wireless Phone

BRAND NAME : **LINKVIL**

MODEL NAME : W610H

APPLICANT : Fanvil Technology Co., Ltd

DATE OF ISSUE : Jun. 23, 2025

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 23, 2025	Valid	Initial Release

Note: The original test report AGC14499241101FR03 (dated Dec. 25, 2024 and tested from Nov. 05, 2024~Dec. 25, 2024) was modified on Jun. 23, 2025, including the following changes and additions:

-Update applicant address and manufacture address;

-Add the battery, see below for details:

Original:

Battery 1# Information	Model: YJ563170 Rated Voltage & Cap.: 3.8V 1900mAh Manufacturer name: YJ POWER GROUP LIMITED
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Increases:

Battery 2# Information	Model: 543171PN3 Rated Voltage & Cap.: 3.8V 1900mAh Manufacturer name: Chongqing VDL New Energy Co., Ltd.
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For the above change (s), it is considered necessary to add the following tests:

Clause	Testing
§15.209	Radiated Emission
§15.207	AC Power Line Conducted Emission

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Table of Contents

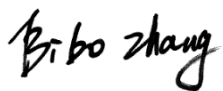
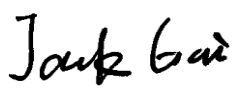
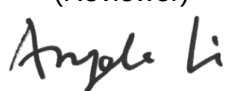
1. General Information	4
2. Product Information	5
2.1 Product Technical Description	5
2.2 Test Frequency List	6
2.3 Related Submittal(S) / Grant (S)	7
2.4 Test Methodology	7
2.5 Special Accessories	7
2.6 Equipment Modifications	7
2.7 Antenna Requirement.....	7
3. Test Environment	8
3.1 Address of the Test Laboratory	8
3.2 Test Facility	8
3.3 Environmental Conditions	9
3.4 Measurement Uncertainty	9
3.5 List of Equipment Use	10
4. System Test Configuration.....	11
4.1 EUT Configuration.....	11
4.2 EUT Exercise.....	11
4.3 Configuration of Tested System	11
4.4 Equipment Used In Tested System	11
4.5 Summary of Test Results	12
5. Description of Test Modes	13
6. Radiated Spurious Emission	14
6.1 Measurement Limit.....	14
6.2 Measurement Procedure.....	14
6.3 Measurement Setup (Block Diagram of Configuration)	17
6.4 Measurement Result	18
7. AC Power Line Conducted Emission Test.....	28
7.1 Measurement Limit.....	28
7.2 Measurement Setup (Block Diagram of Configuration)	28
7.3 Preliminary Procedure of Line Conducted Emission Test	29
7.4 Final Procedure of Line Conducted Emission Test.....	29
7.5 Measurement Results	29
Appendix I: Photographs of Test Setup.....	38
Appendix II: Photographs of Test EUT.....	38

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1. General Information

Applicant	Fanvil Technology Co., Ltd
Address	13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, Guangdong, 518000 China
Manufacturer	Fanvil Technology Co., Ltd
Address	13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, Guangdong, 518000 China
Factory	N/A
Address	N/A
Product Designation	Wireless Phone
Brand Name	LINKVIL
Test Model	W610H
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	May 16, 2025
New Date of Test	May 16, 2025~Jun. 23, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-Wi-Fi HaLow-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	Bibo Zhang (Project Engineer)	Jun. 23, 2025
Reviewed By		
	Jack Gui (Reviewer)	Jun. 23, 2025
Approved By		
	Angela Li (Authorized Officer)	Jun. 23, 2025

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2. Product Information

2.1 Product Technical Description

Equipment Type	Wi-Fi HaLow	
Frequency Band	902MHz-928MHz	
Support Technology Mode	☐ IEEE 802.11ah (1MHz BW)	☐ IEEE 802.11ah (2MHz BW)
	☒ IEEE 802.11ah (4MHz BW)	☐ IEEE 802.11ah (8MHz BW)
Operation Frequency Range	906-922MHz for 802.11ah (4MHz Channel Bandwidth)	
Maximum Output Power	IEEE 802.11ah (4MHz BW): 28.190dBm	
Modulation	OFDM with BPSK/QPSK/16QAM/64QAM	
Data Rate	1.35–20.00 Mbps x NSS for BW 4MHz Note: Declare that the default NSS is 1	
Number of channels	5 Channels for 802.11ah (4MHz Channel Bandwidth);	
Hardware Version	V1.0	
Software Version	1.0.3	
Antenna Designation	FPC Antenna	
Antenna Gain	1.5dBi	
Power Supply	DC 3.8V, 1900mAh by battery or DC 5V from adapter	

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2.2 Test Frequency List

- Frequency and Channel list for 802.11ah (4MHz channel bandwidth):

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
01	906	03	914	05	922
02	910	04	918		

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2APPZ-W610H**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 1.5dBi.

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3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 3.8V

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$

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3.5 List of Equipment Use

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2025-01-14	2026-01-13
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2024-02-01	2026-01-31
☒	AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☐	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☒	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

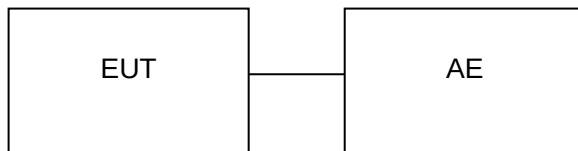
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



Conducted Emission Configure:



4.4 Equipment Used In Tested System

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

☒ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Earphone	CXT	N/A	N/A	1.2m unshielded

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Adapter 1#	Dongguan City Gangqi Electronic Co. LTD.	GQ12-050200-AU	Input: 100-240 50/60Hz, 0.4A Output: DC 5V=2A	1.0m unshielded
2	Adapter 2#	CHENZHOUE FRECOM ELECTRONICS CO., LTD	F12L20-050200 SPAU	Input: 100-240 50/60Hz, 0.3A DC 5V=2A	1.0m unshielded
3	Charger	Fanvil Technology Co. Ltd.	W610H	Input: 5V=2A	-
4	Battery 1#	YJ POWER GROUP LIMITED	YJ563170	DC 3.8V 1900mAh	-
5	Battery 2#	Chongqing VDL New Energy Co., Ltd.	543171PN3	DC 3.8V 1900mAh	-

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.209	Radiated Emission	Pass
2	§15.207	AC Power Line Conducted Emission	Pass

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5. Description of Test Modes

Summary Table of Test Cases	
Test Item	Data Rate / Modulation
	Wi-Fi HaLow–IEEE 802.11ah(1.35Mbps)/OFDM
Radiated Test Cases	Mode 1: 802.11ah TX CH01_906.0MHz (4MHz BW)_1.35Mbps(Battery powered or AC/DC adapter)
	Mode 2: 802.11ah TX CH03_914.0MHz (4MHz BW)_1.35Mbps(Battery powered or AC/DC adapter)
	Mode 3: 802.11ah TX CH05_922.0MHz (4MHz BW)_1.35Mbps(Battery powered or AC/DC adapter)
AC Conducted Emission	Mode 1: Wi-Fi HaLow Works Normally in Data Transmission +AC/DC adapter
Note: 1. All technical configurations are pre-scanned, and the low rate is the worst data mode. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.	

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6. Radiated Spurious Emission

6.1 Measurement Limit

- FCC Part 15.209 Limit in the below table to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

6.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

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8. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
 9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
 10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
 11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
- The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

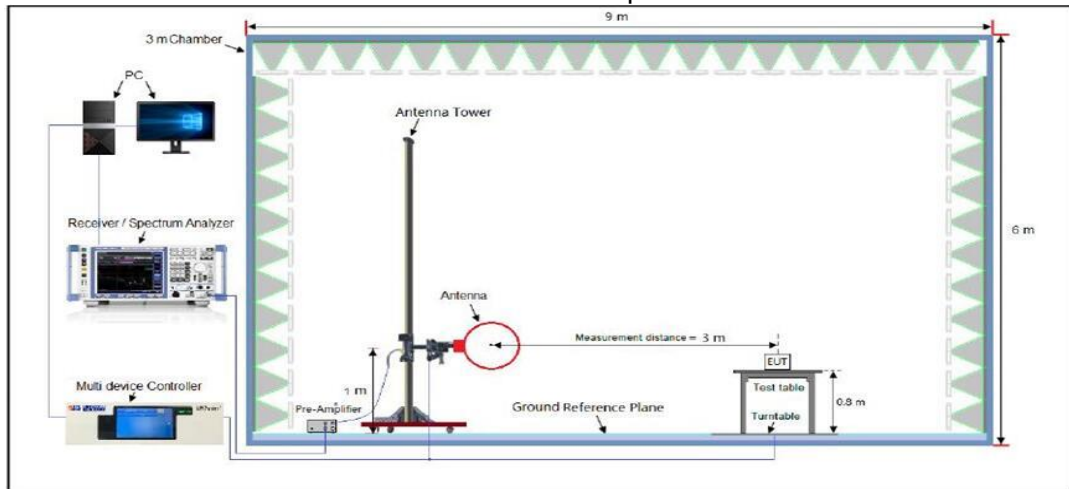
- **Average Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. $VBW \geq [3 \times RBW]$
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is $[10 \cdot \log(1 / D)]$, where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

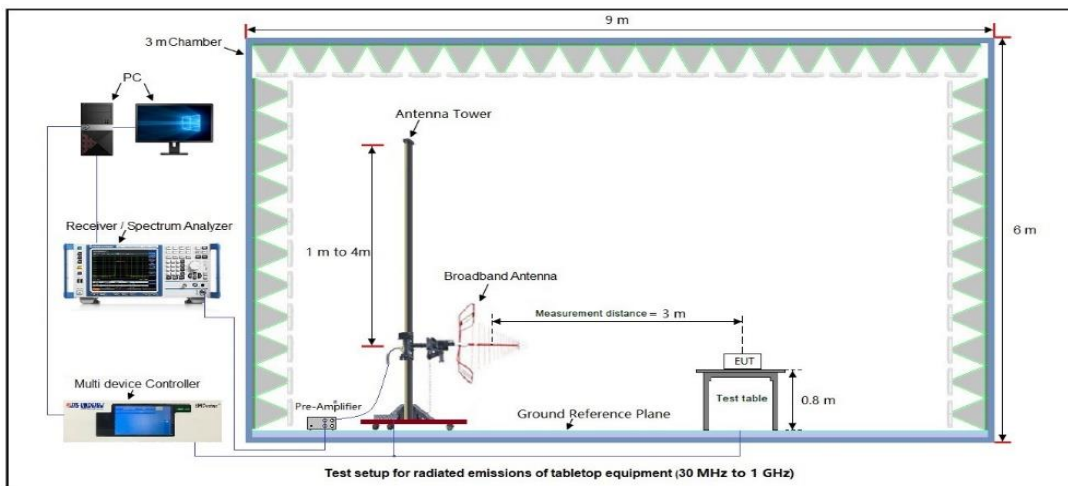
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6.3 Measurement Setup (Block Diagram of Configuration)

Radiated Emission Test Setup 9kHz-30MHz

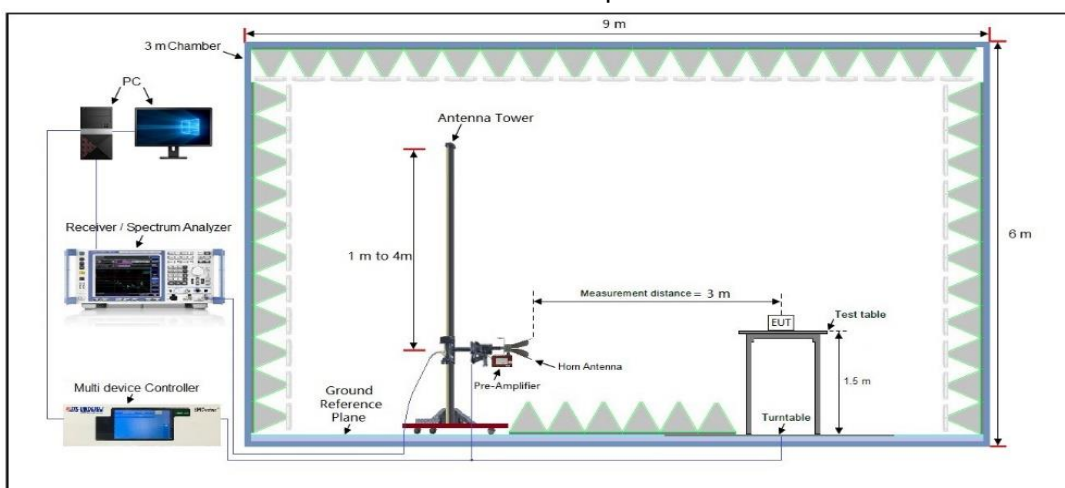


Radiated Emission Test Setup 30MHz-1000MHz



Test setup for radiated emissions of tabletop equipment (30 MHz to 1 GHz)

Radiated Emission Test Setup Above 1000MHz



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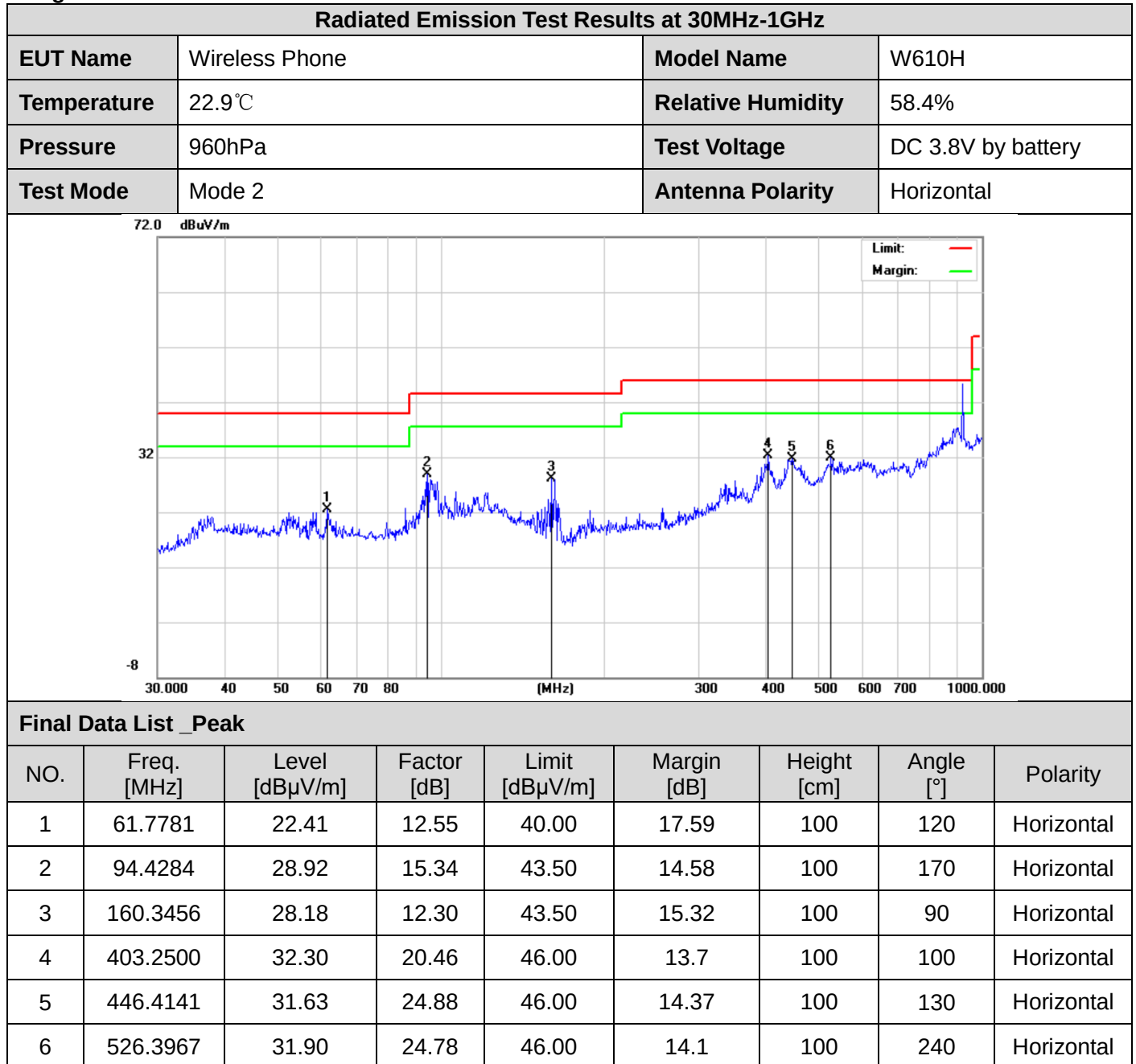
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6.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Original:



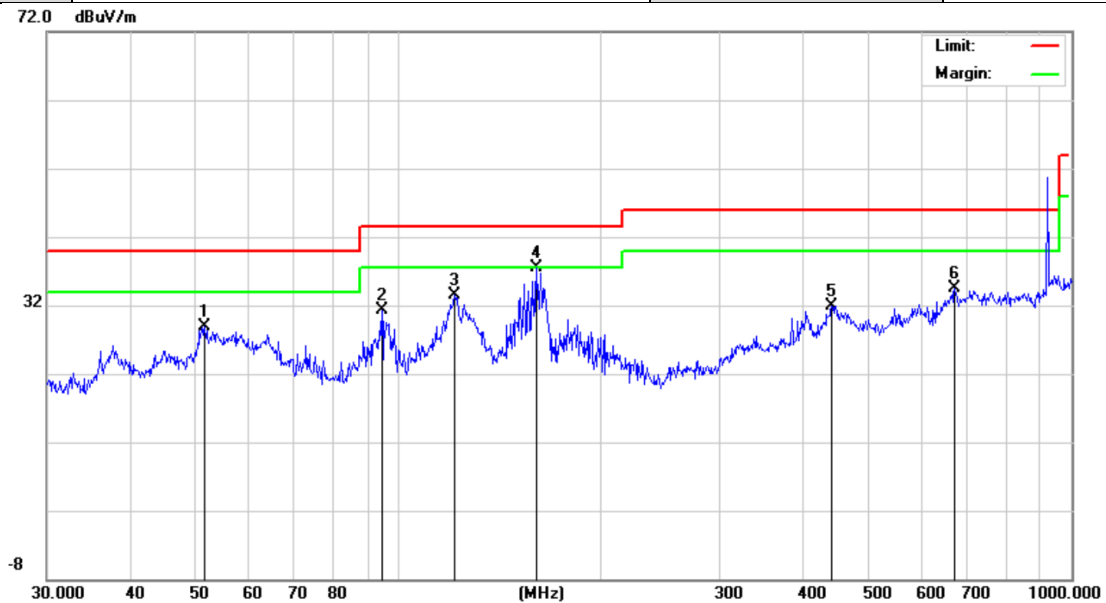
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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.9℃	Relative Humidity	58.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 2	Antenna Polarity	Vertical



Final Data List _Peak

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	51.4807	28.87	17.01	40.00	11.13	100	60	Vertical
2	94.4284	31.22	14.95	43.50	12.28	100	270	Vertical
3	121.1231	33.49	17.73	43.50	10.01	100	150	Vertical
4	160.3456	37.46	18.21	43.50	6.04	100	220	Vertical
5	440.1963	32.00	26.09	46.00	14.0	100	180	Vertical
6	670.4893	34.54	27.60	46.00	11.46	100	110	Vertical

RESULT: PASS

Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been pre-tested. The mode 2 is the worst case and recorded in the report.

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Phone	Model Name	W610H
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1812.000	50.34	0.08	50.42	74.00	-23.58	peak
1812.000	41.27	0.08	41.35	54.00	-12.65	AVG
2718.000	48.93	1.15	50.08	74.00	-23.92	peak
2718.000	40.57	1.15	41.72	54.00	-12.28	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT Name	Wireless Phone	Model Name	W610H
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1812.000	49.65	0.08	49.73	74.00	-23.58	peak
1812.000	40.31	0.08	40.39	54.00	-12.65	AVG
2718.000	49.31	1.15	50.46	74.00	-23.92	peak
2718.000	41.75	1.15	42.9	54.00	-12.28	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Phone	Model Name	W610H
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1828.000	51.36	0.14	51.50	74.00	-22.50	peak
1828.000	40.15	0.14	40.29	54.00	-13.71	AVG
2742.000	49.96	2.36	52.32	74.00	-21.68	peak
2742.000	41.37	2.36	43.73	54.00	-10.27	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Wireless Phone	Model Name	W610H
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1828.000	50.14	0.14	50.28	74.00	-23.72	peak
1828.000	41.39	0.14	41.53	54.00	-12.47	AVG
2742.000	48.36	2.36	50.72	74.00	-23.28	peak
2742.000	40.37	2.36	42.73	54.00	-11.27	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Phone	Model Name	W610H
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1844.000	51.01	0.22	51.23	74.00	-22.77	peak
1844.000	41.74	0.22	41.96	54.00	-12.04	AVG
2766.000	49.36	2.64	52.00	74.00	-22.00	peak
2766.000	40.36	2.64	43.00	54.00	-11.00	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Wireless Phone	Model Name	W610H
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1844.000	50.10	0.22	50.32	74.00	-23.68	peak
1844.000	40.06	0.22	40.28	54.00	-13.72	AVG
2766.000	48.33	2.64	50.97	74.00	-23.03	peak
2766.000	41.07	2.64	43.71	54.00	-10.29	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

- The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
- The “Factor” value can be calculated automatically by software of measurement system.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

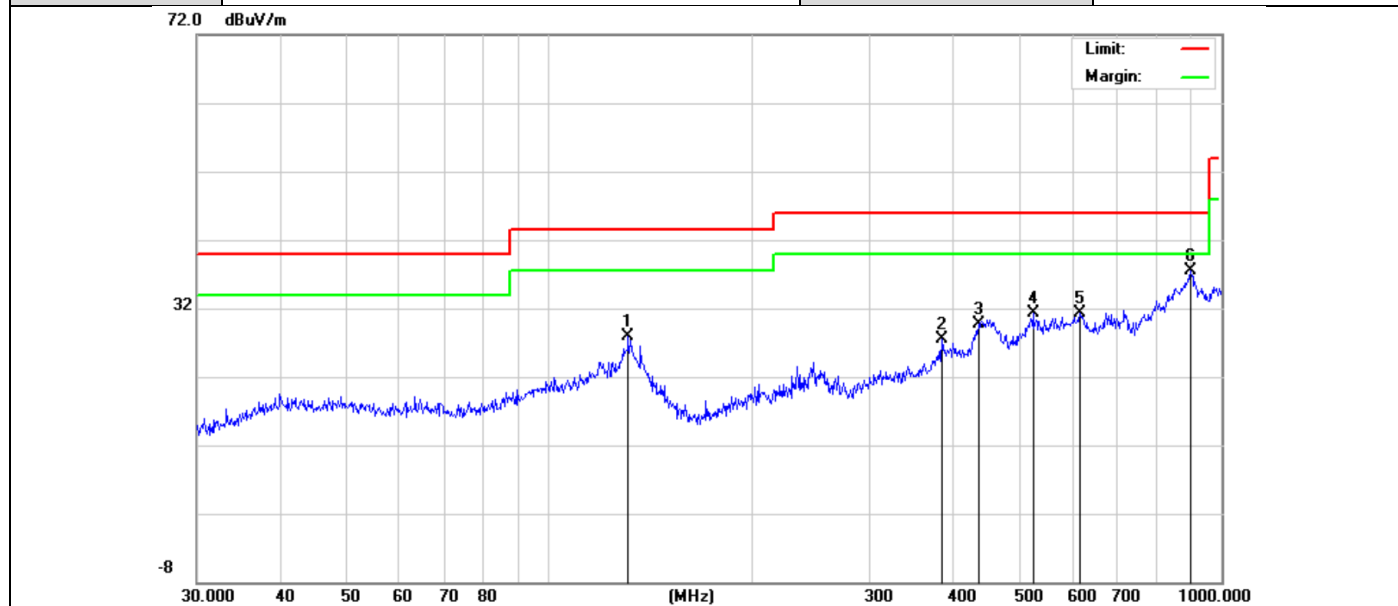
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Increases:

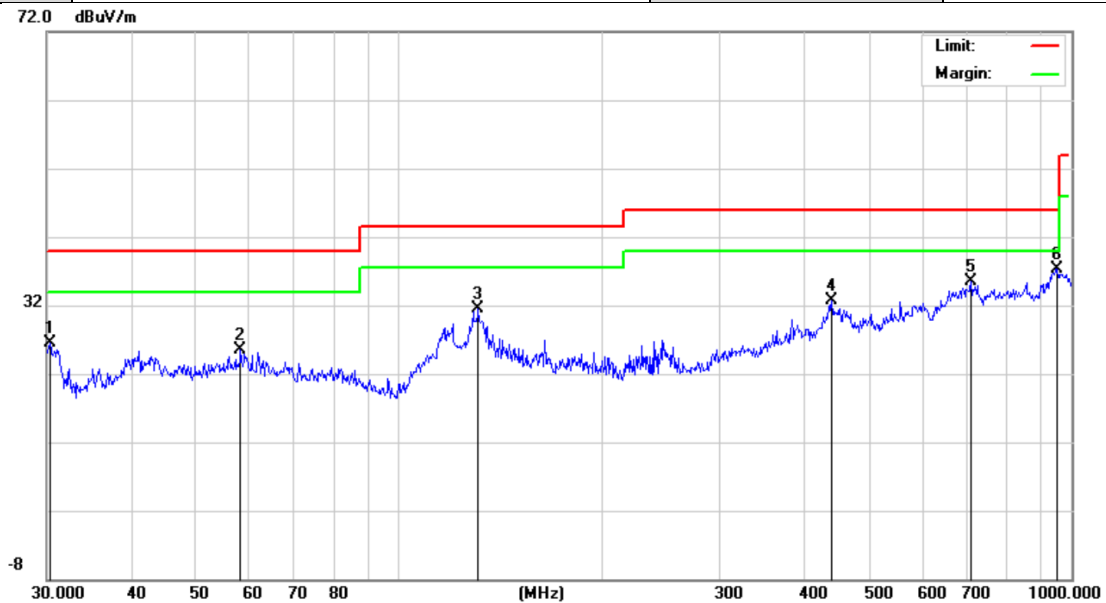
Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.5℃	Relative Humidity	52.3%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 2	Antenna Polarity	Horizontal


Final Data List _Peak

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	131.2965	27.83	15.72	43.50	15.67	100	210	Horizontal
2	383.9318	27.57	18.63	46.00	18.43	100	180	Horizontal
3	435.5898	29.64	24.15	46.00	16.36	100	100	Horizontal
4	524.5541	31.28	24.90	46.00	14.72	100	190	Horizontal
5	616.3718	31.36	25.18	46.00	14.64	100	140	Horizontal
6	900.1474	37.53	31.78	46.00	8.47	100	290	Horizontal

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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.5°C	Relative Humidity	52.3%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 2	Antenna Polarity	Vertical



Final Data List _ Peak								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.3173	26.57	13.70	40.00	13.43	100	210	Vertical
2	58.2030	25.45	17.08	40.00	14.55	100	160	Vertical
3	131.2965	31.46	17.98	43.50	12.04	100	180	Vertical
4	440.1963	32.68	26.09	46.00	13.32	100	140	Vertical
5	709.1823	35.46	28.42	46.00	10.54	100	110	Vertical
6	952.0937	37.38	30.52	46.00	8.62	100	50	Vertical

RESULT: PASS

Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been pre-tested. The mode 2 is the worst case and recorded in the report.

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.5°C	Relative Humidity	52.3%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1812.000	50.18	0.08	50.26	74.00	-23.74	peak
1812.000	40.49	0.08	40.57	54.00	-13.43	AVG
2718.000	49.92	1.15	51.07	74.00	-22.93	peak
2718.000	40.10	1.15	41.25	54.00	-12.75	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.5°C	Relative Humidity	52.3%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Freq ency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1812.000	49.03	0.08	49.11	74.00	-24.89	peak
1812.000	41.33	0.08	41.41	54.00	-12.59	AVG
2718.000	50.37	1.15	51.52	74.00	-22.48	peak
2718.000	40.46	1.15	41.61	54.00	-12.39	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.5°C	Relative Humidity	52.3%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1828.000	50.87	0.14	51.01	74.00	-22.99	peak
1828.000	39.68	0.14	39.82	54.00	-14.18	AVG
2742.000	50.54	2.36	52.90	74.00	-21.10	peak
2742.000	40.15	2.36	42.51	54.00	-11.49	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.5°C	Relative Humidity	52.3%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1828.000	50.08	0.14	50.22	74.00	-23.78	peak
1828.000	41.11	0.14	41.25	54.00	-12.75	AVG
2742.000	50.00	2.36	52.36	74.00	-21.64	peak
2742.000	39.84	2.36	42.20	54.00	-11.80	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.5℃	Relative Humidity	52.3%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1844.000	49.87	0.22	50.09	74.00	-23.91	peak
1844.000	41.44	0.22	41.66	54.00	-12.34	AVG
2766.000	49.94	2.64	52.58	74.00	-21.42	peak
2766.000	40.16	2.64	42.80	54.00	-11.20	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Wireless Phone	Model Name	W610H
Temperature	22.5℃	Relative Humidity	52.3%
Pressure	960hPa	Test Voltage	DC 3.8V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1844.000	48.50	0.22	48.72	74.00	-25.28	peak
1844.000	41.46	0.22	41.68	54.00	-12.32	AVG
2766.000	49.58	2.64	52.22	74.00	-21.78	peak
2766.000	40.50	2.64	43.14	54.00	-10.86	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

- The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
- The “Factor” value can be calculated automatically by software of measurement system.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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7. AC Power Line Conducted Emission Test

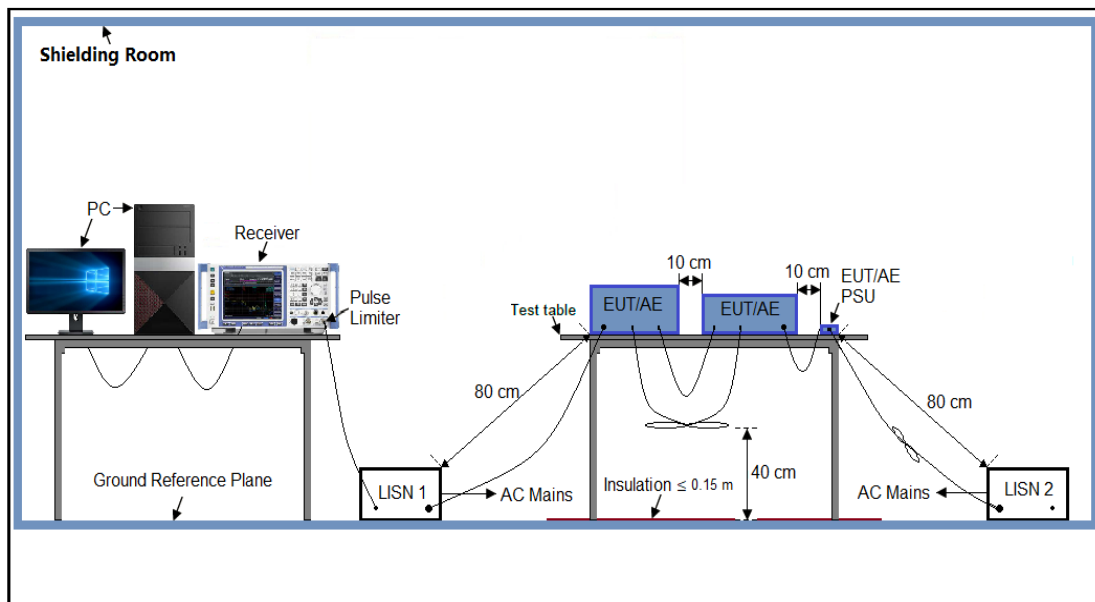
7.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dBμV)	Average (dBμV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

7.2 Measurement Setup (Block Diagram of Configuration)



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7.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

7.4 Final Procedure of Line Conducted Emission Test

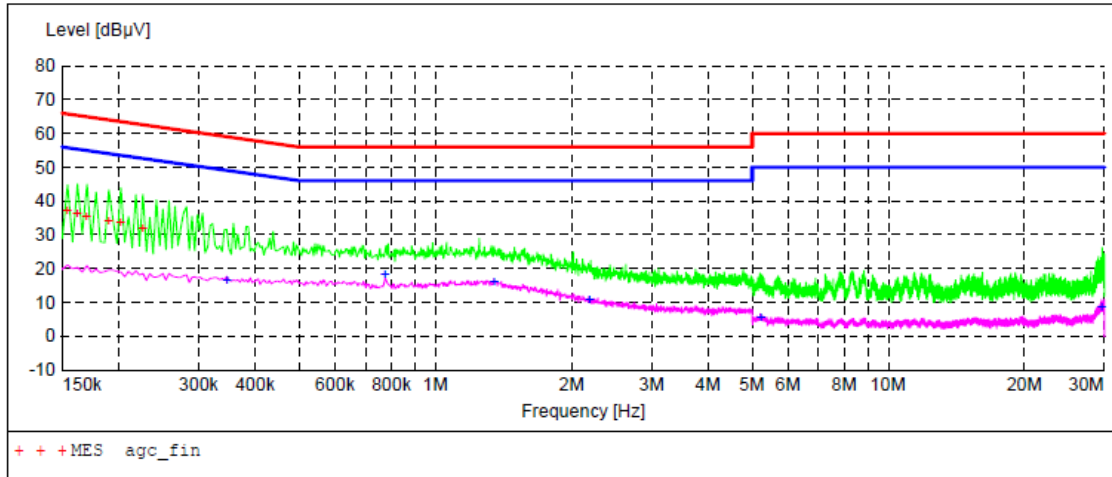
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

7.5 Measurement Results

Original:

AC Power Line Conducted Emission Test

Test Mode	Mode 2(Adapter 1#)	LISN Line	Hot Side
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**MEASUREMENT RESULT: "agc_fin"**

2024/11/15 11:42

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	37.00	6.1	66	28.8	QP	L1
0.162000	36.30	6.1	65	29.1	QP	L1
0.170000	35.50	6.1	65	29.5	QP	L1
0.190000	33.90	6.1	64	30.1	QP	L1
0.202000	33.70	6.1	64	29.8	QP	L1
0.226000	32.00	6.1	63	30.6	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2024/11/15 11:42

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.346000	16.50	6.1	49	32.6	AV	L1
0.774000	18.30	6.2	46	27.7	AV	L1
1.346000	15.80	6.2	46	30.2	AV	L1
2.186000	10.70	6.3	46	35.3	AV	L1
5.222000	5.50	6.4	50	44.5	AV	L1
29.554000	8.70	8.3	50	41.3	AV	L1

RESULT: PASS

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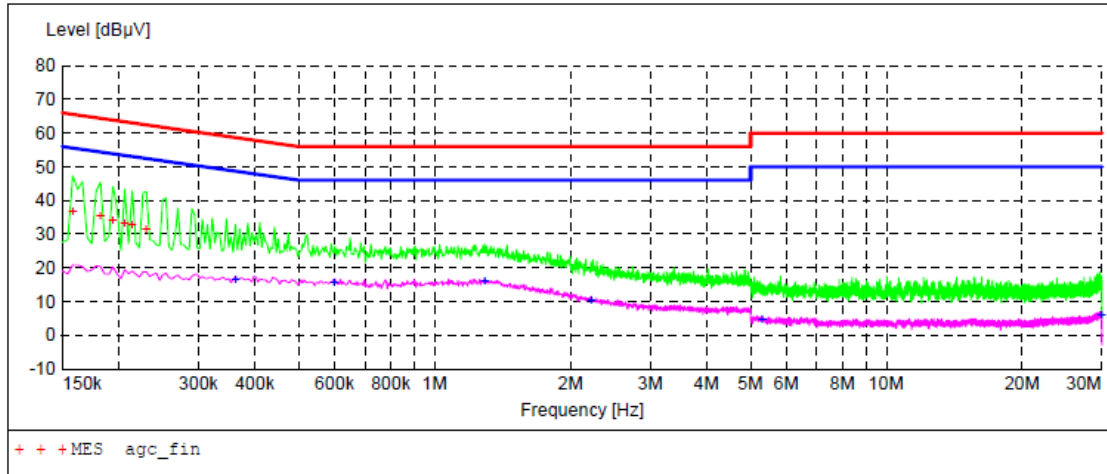
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AC Power Line Conducted Emission Test

Test Mode	Mode 2(Adapter 1#)	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2024/11/15 11:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	36.70	6.1	66	28.9	QP	N
0.182000	35.10	6.1	64	29.3	QP	N
0.194000	33.80	6.1	64	30.1	QP	N
0.206000	33.20	6.1	63	30.2	QP	N
0.214000	32.50	6.1	63	30.5	QP	N
0.230000	31.30	6.1	62	31.1	QP	N

MEASUREMENT RESULT: "agc_fin2"

2024/11/15 11:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	16.50	6.1	49	32.2	AV	N
0.598000	15.60	6.2	46	30.4	AV	N
1.290000	15.80	6.2	46	30.2	AV	N
2.222000	10.50	6.3	46	35.5	AV	N
5.302000	4.60	6.4	50	45.4	AV	N
29.910000	5.90	8.3	50	44.1	AV	N

RESULT: PASS

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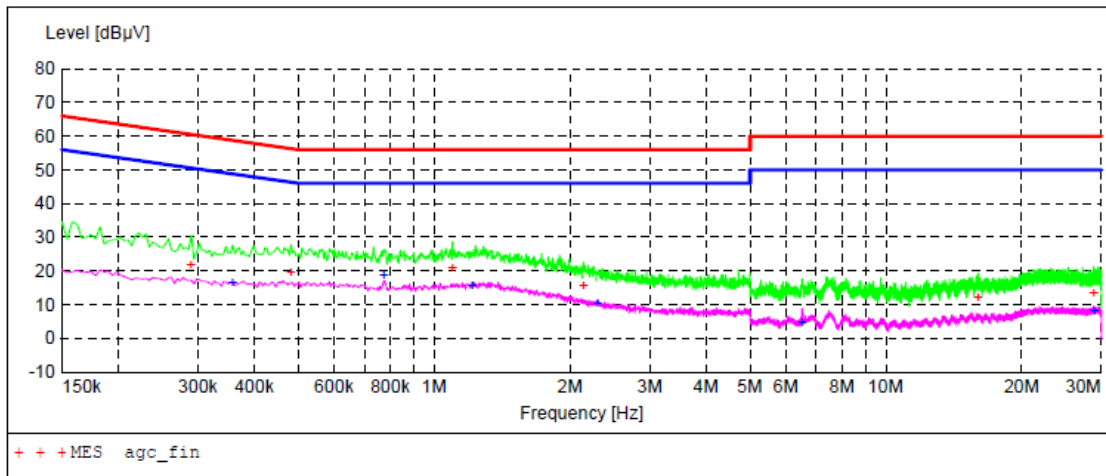
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AC Power Line Conducted Emission Test

Test Mode	Mode 2(Adapter 2#)	LISN Line	Hot Side
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**MEASUREMENT RESULT: "agc_fin"**

2024/11/15 13:48

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.290000	21.80	6.1	61	38.7	QP	L1
0.482000	19.70	6.1	56	36.6	QP	L1
1.098000	20.90	6.2	56	35.1	QP	L1
2.142000	15.40	6.2	56	40.6	QP	L1
16.022000	12.00	6.9	60	48.0	QP	L1
28.862000	13.40	8.3	60	46.6	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2024/11/15 13:48

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.358000	16.60	6.1	49	32.2	AV	L1
0.774000	18.50	6.2	46	27.5	AV	L1
1.214000	15.70	6.2	46	30.3	AV	L1
2.302000	10.20	6.3	46	35.8	AV	L1
6.530000	4.40	6.5	50	45.6	AV	L1
28.862000	8.30	8.3	50	41.7	AV	L1

RESULT: PASS

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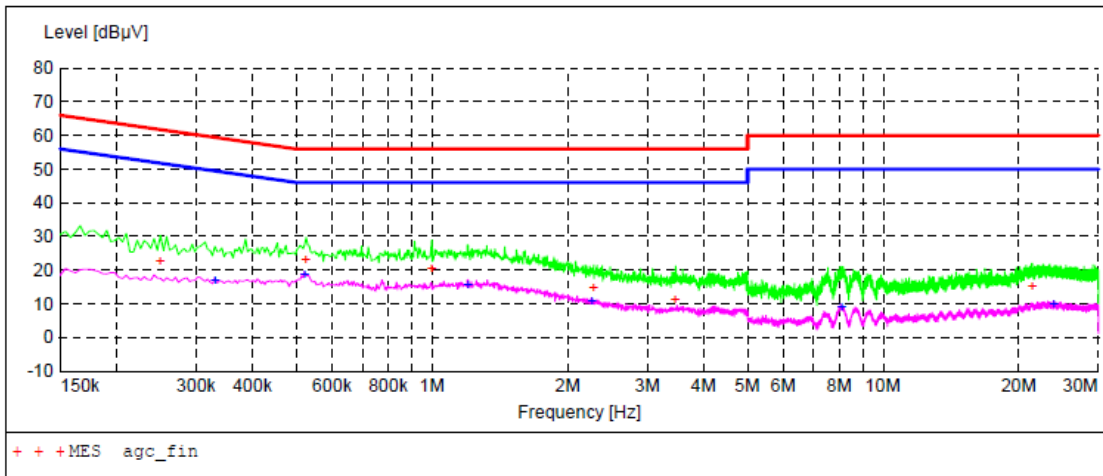
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AC Power Line Conducted Emission Test

Test Mode	Mode 2(Adapter 2#)	LISN Line	Neutral Side
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**MEASUREMENT RESULT: "agc_fin"**

2024/11/15 13:51

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.250000	22.40	6.1	62	39.4	QP	N
0.526000	22.90	6.2	56	33.1	QP	N
0.998000	20.50	6.2	56	35.5	QP	N
2.282000	14.90	6.3	56	41.1	QP	N
3.466000	11.30	6.3	56	44.7	QP	N
21.418000	15.10	7.4	60	44.9	QP	N

MEASUREMENT RESULT: "agc_fin2"

2024/11/15 13:51

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.330000	16.80	6.1	50	32.7	AV	N
0.522000	18.70	6.2	46	27.3	AV	N
1.202000	15.70	6.2	46	30.3	AV	N
2.258000	10.70	6.3	46	35.3	AV	N
8.090000	8.90	6.6	50	41.1	AV	N
23.898000	9.70	7.8	50	40.3	AV	N

RESULT: PASS

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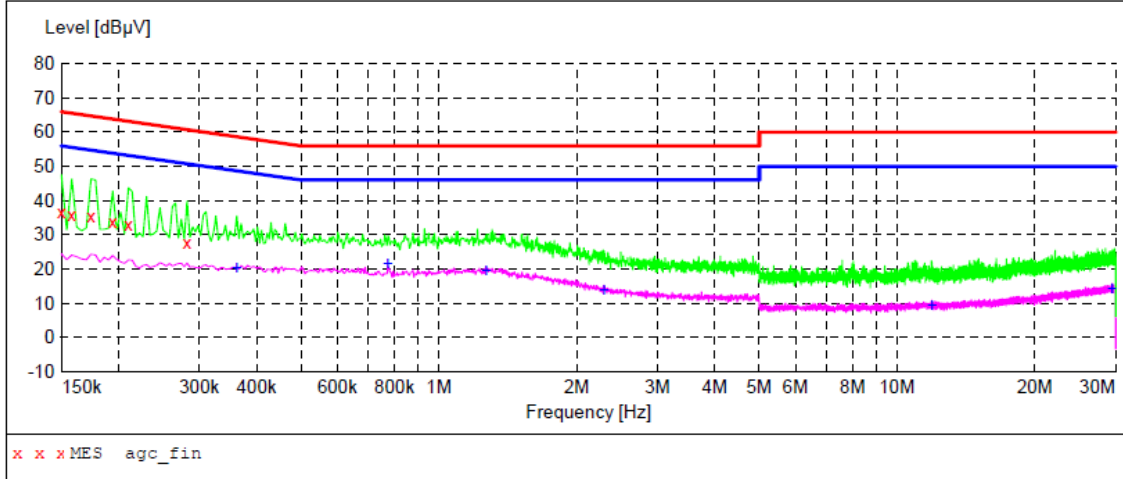
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Increases:
AC Power Line Conducted Emission Test

Test Mode	Mode 2(Adapter 1#)	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2025/5/21 20:48

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	36.80	10.3	66	29.2	QP	L1
0.158000	35.90	10.3	66	29.7	QP	L1
0.174000	35.40	10.3	65	29.4	QP	L1
0.194000	33.80	10.3	64	30.1	QP	L1
0.210000	33.00	10.3	63	30.2	QP	L1
0.282000	27.80	10.3	61	33.0	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/5/21 20:48

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	20.30	10.3	49	28.4	AV	L1
0.774000	21.80	10.3	46	24.2	AV	L1
1.266000	19.50	10.4	46	26.5	AV	L1
2.294000	14.10	10.5	46	31.9	AV	L1
11.910000	9.50	12.6	50	40.5	AV	L1
29.466000	14.20	18.0	50	35.8	AV	L1

RESULT: PASS

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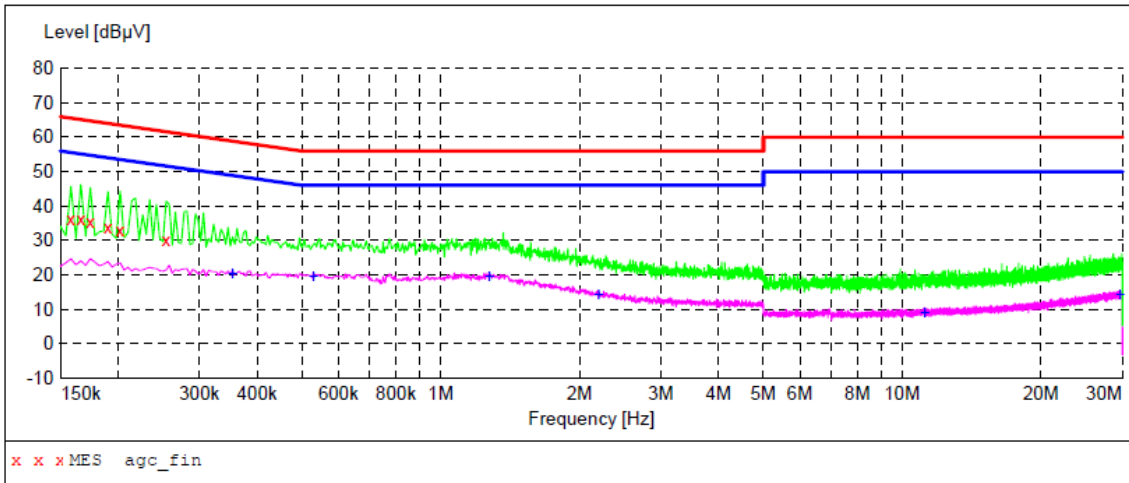
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AC Power Line Conducted Emission Test

Test Mode	Mode 2(Adapter 1#)	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/5/21 20:54

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	36.30	10.3	66	29.3	QP	N
0.166000	36.20	10.3	65	29.0	QP	N
0.174000	35.30	10.3	65	29.5	QP	N
0.190000	33.60	10.3	64	30.4	QP	N
0.202000	33.20	10.3	64	30.3	QP	N
0.254000	30.10	10.3	62	31.5	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/5/21 20:54

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.354000	20.30	10.3	49	28.6	AV	N
0.530000	19.60	10.3	46	26.4	AV	N
1.274000	19.50	10.4	46	26.5	AV	N
2.198000	14.40	10.5	46	31.6	AV	N
11.182000	9.20	12.5	50	40.8	AV	N
29.654000	14.20	18.0	50	35.8	AV	N

RESULT: PASS

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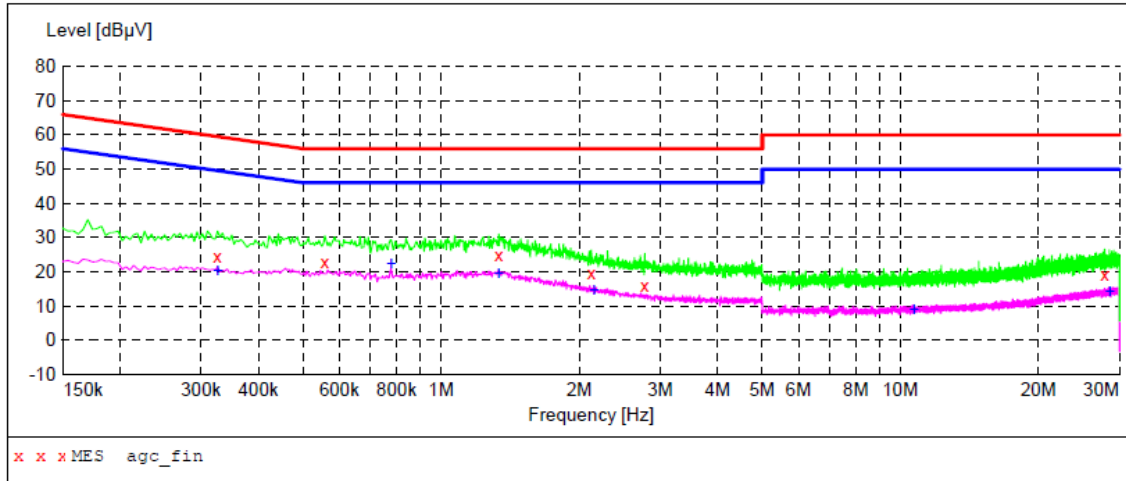
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AC Power Line Conducted Emission Test

Test Mode	Mode 2(Adapter 2#)	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2025/5/21 21:18

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.326000	24.30	10.3	60	35.3	QP	L1
0.558000	22.80	10.3	56	33.2	QP	L1
1.334000	25.00	10.4	56	31.0	QP	L1
2.122000	19.50	10.5	56	36.5	QP	L1
2.774000	15.90	10.5	56	40.1	QP	L1
27.834000	19.00	17.5	60	41.0	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/5/21 21:18

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.326000	20.40	10.3	50	29.2	AV	L1
0.778000	22.60	10.3	46	23.4	AV	L1
1.334000	19.60	10.4	46	26.4	AV	L1
2.154000	14.70	10.5	46	31.3	AV	L1
10.690000	8.90	12.4	50	41.1	AV	L1
28.522000	14.20	17.7	50	35.8	AV	L1

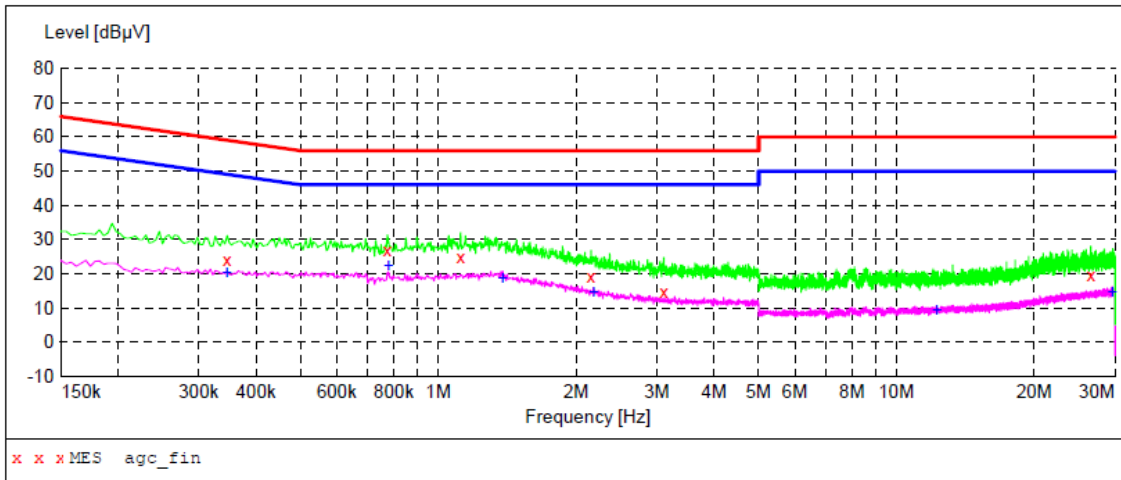
RESULT: PASS

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AC Power Line Conducted Emission Test

Test Mode	Mode 2(Adapter 2#)	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/5/21 21:22

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.346000	24.00	10.3	59	35.1	QP	N
0.774000	27.00	10.3	56	29.0	QP	N
1.118000	24.80	10.4	56	31.2	QP	N
2.154000	19.20	10.5	56	36.8	QP	N
3.106000	14.90	10.5	56	41.1	QP	N
26.566000	19.80	17.1	60	40.2	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/5/21 21:22

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.346000	20.30	10.3	49	28.8	AV	N
0.778000	22.60	10.3	46	23.4	AV	N
1.382000	18.70	10.4	46	27.3	AV	N
2.182000	14.50	10.5	46	31.5	AV	N
12.230000	9.30	12.7	50	40.7	AV	N
29.598000	14.80	18.0	50	35.2	AV	N

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC14499241101AP02A

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC14499241101AP03A

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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