FCC Test Report

Report No.: AGC03397250801FE01A

FCC ID	:	SV8-W1
APPLICATION PURPOSE	:	Class II Permissive Change
PRODUCT DESIGNATION	:	Two Way Radio
BRAND NAME	:	YANTON, ABBREE, Mashitom, GUOGE
MODEL NAME	:	W1-4, W1-5, AR-W5,W1-6, M-6, G-6
APPLICANT	:	Quanzhou YANTON Electronics Co., Ltd.
DATE OF ISSUE	:	May 29, 2026
STANDARD(S)	:	FCC Part 15 Subpart B
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 29, 2026	Valid	Initial Release

Note: The original test report AGC03397250801FE01 (dated Sep. 08, 2025 and tested from Aug. 8, 2025~Sep. 08, 2025) was modified on May 29, 2026, including the following changes and additions:

- Add brand name and add series models;

Based on the above changes, add external appearance photos of series.

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1. General Information

Applicant	Quanzhou YANTON Electronics Co., Ltd.
Address	YANTON Building, Jinxia Road, Xiamei Town, Nan'an,China
Manufacturer	Quanzhou YANTON Electronics Co., Ltd.
Address	YANTON Building, Jinxia Road, Xiamei Town, Nan'an,China
Factory	Quanzhou YANTON Electronics Co., Ltd.
Address	YANTON Building, Jinxia Road, Xiamei Town, Nan'an,China
Product Designation	Two Way Radio
Brand Name	YANTON, ABBREE, Mashitom, GUOGE
Test Model	W1-4
Series Model(s)	W1-5, AR-W5, W1-6, M-6, G-6
Difference Description	Apart from the differences in the outer shell lines, silk printing and model name, everything else is the same.
Date of receipt of test item	May 20, 2026
Date of Test	Refer page 2.
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCTR-ER-FCC-CSR-V1.0

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

Prepared By	Bibo Zhang (Project Engineer)	May 29, 2026
Reviewed By	Jack Gui (Reviewer)	May 29, 2026
Approved By	Angela Li (Authorized Officer)	May 29, 2026

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2. Product Information

2.1 Product Technical Description

Housing Type	Plastic and metal
Receive Frequency Range	462.5625 - 462.7125MHz, 467.5625 - 467.7125MHz
Equipment Type	Table-Top
Hardware Version	V1.5
Software Version	R3.01.03
Power Supply	DC 3.7V 450mAh by battery or DC 5V from adapter

I/O Port Information (☒Applicable ☐Not Applicable)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
Type-C Port	1	1.0m unshielded	1

2.2 Auxiliary Surrounding Description

The Following Peripheral Devices and Interface Cables Were Connected During the Measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Adapter	Apple	A2452	USB-C/140W	--

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Battery	YT591452P450mAh	QUANZHOU YANTON ELECTRONICS CO., LTD	DC 3.7V 450mAh	--
2	Earphone	--	--	--	1.0m unshielded
3	USB Cable	--	--	--	1.0m unshielded

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2.2 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 15	Radio Frequency Devices
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

2.3 Description of Test Modes

No.	Test Mode	Remark
1	Receiving at low channel of 462.5625 MHz to 462.7125 MHz	V
2	Receiving at middle channel of 462.5625 MHz to 462.7125 MHz	--
3	Receiving at high channel of 462.5625 MHz to 462.7125 MHz	--
4	Receiving at low channel of 467.5625MHz to 467.7125 MHz	--
5	Receiving at middle channel of 467.5625MHz to 467.7125 MHz	--
6	Receiving at high channel of 467.5625MHz to 467.7125 MHz	--

Note: Only the result of the worst case was recorded in the report.

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3. Test Environment

3.1 Address of The Test Laboratory

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

Address: 101 & 201, Building 19(B5), Junfeng Industrial Park, Chongqing Road, P.R.C.

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 be in compliance with 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 be in compliance with 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.

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3.3 Environmental Conditions

	Normal Conditions
Temperature range (℃)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

3.4 Measurement Uncertainty

The reported uncertainty of measurement y ±U, where expended 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	U_c = ±2.9 dB
Uncertainty of Radiated Emission below 1GHz	U_c = ±3.9 dB
Uncertainty of Radiated Emission above 1GHz	U_c = ±4.9 dB

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3.5 List of Equipment Used

● Radiated 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-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-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23

● 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-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
☒	AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S004	RE Test System	Tonscend	TS^+ Ver2.1(JS32-RE)	4.0.0.0
☐	AGC-EM-S003	RE Test System	FARA	EZ-EMC	V.RA-03A
☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71

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4. Summary of Test Results

Item	FCC Rules	Description Of Test	Class/Severity	Result
1	Section 15.109	Radiated Emission	Class B	Pass
2	Section 15.107	Conducted Emission	Class B	Pass

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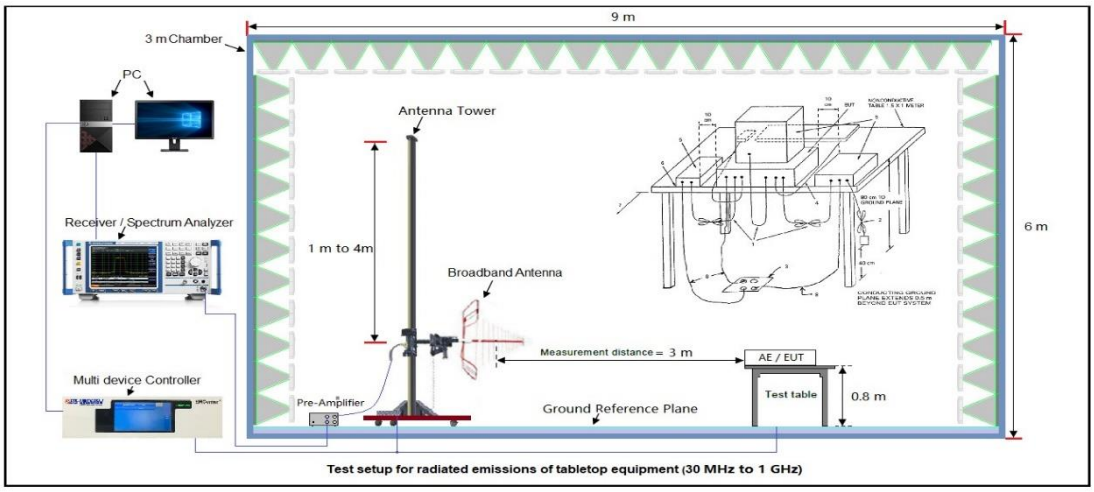
5. Radiated Emission Measurements

5.1 Provisions Applicable

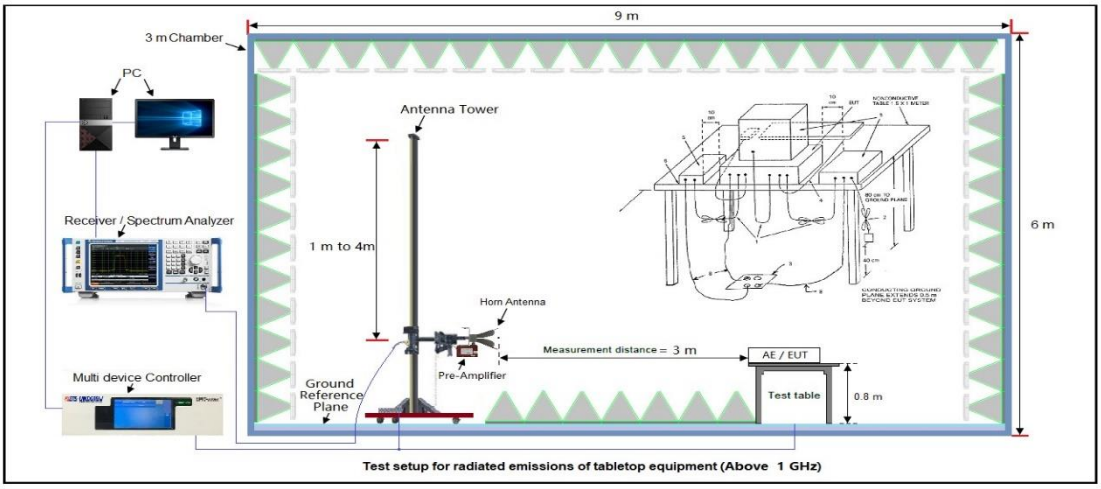
FCC CFR Title 47 Part 15 Subpart B Section 15.109:

Frequency Range	Class B Limit (dBuV/m @3m)	Class A Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	50.00	Quasi-peak
88MHz-216MHz	43.50	53.50	Quasi-peak
216MHz-960MHz	46.00	56.00	Quasi-peak
960MHz-1GHz	54.00	64.00	Quasi-peak
Above 1GHz	54.00	60.00	Average
	74.00	80.00	Peak

5.2 Measurement Setup



Radiated Emission Measurements Test Setup for 30MHz to 1GHz



Radiated Emission Measurements Test Setup for above 1GHz

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5.3 Measurement Procedure

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 turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is 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 C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. The EUT received power by AC 120V/60Hz.
5. The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
6. The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
7. The test mode(s) were scanned during the test:
8. Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented. For emissions below 1GHz, use 120KHz RBW and VBW>=3RBW for QP reading.
9. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
10. 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. 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.
11. 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.
12. 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.
13. 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.
14. The test data of the worst case condition (mode 1) was reported on the following Data page.

EMI Test Receiver Setup:

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

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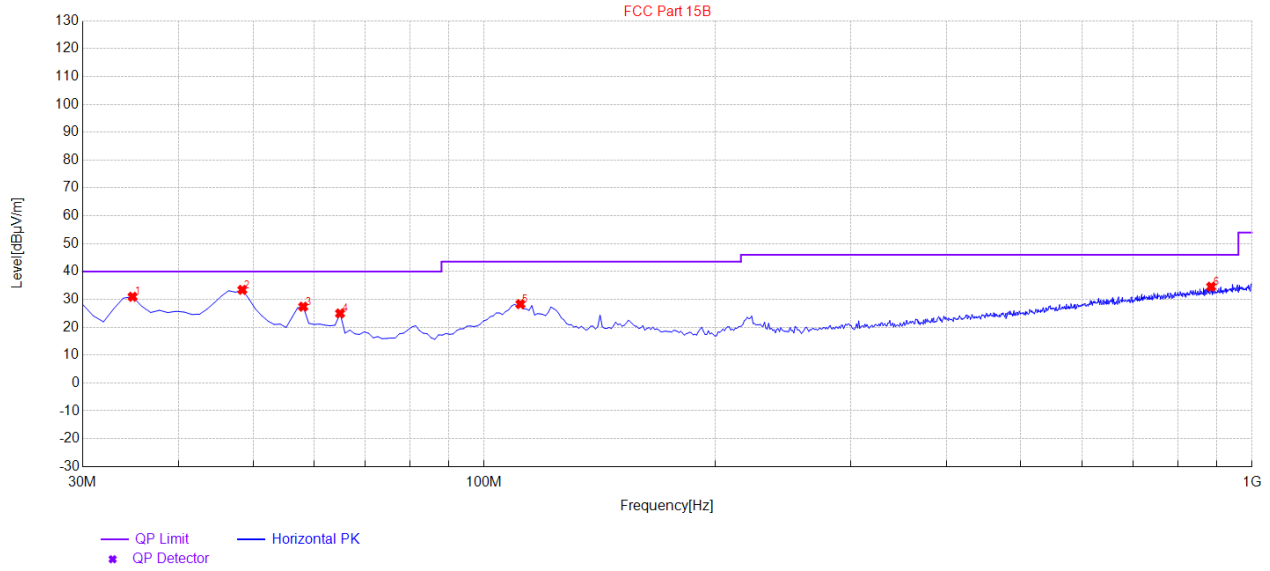
5.4 Measurement Resul

Radiated Emission 30MHz-1GHz Test Result			
Test Mode	Mode 1	Polarity:	Horizontal



Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	30.93	14.23	40.00	9.07	100	343	Horizontal
2	48.43	33.41	14.34	40.00	6.59	100	61	Horizontal
3	58.13	27.37	13.73	40.00	12.63	100	196	Horizontal
4	64.92	24.95	12.84	40.00	15.05	100	335	Horizontal
5	111.48	28.28	12.83	43.50	15.22	100	73	Horizontal
6	884.57	34.55	28.14	46.00	11.45	100	174	Horizontal

RESULT: PASS

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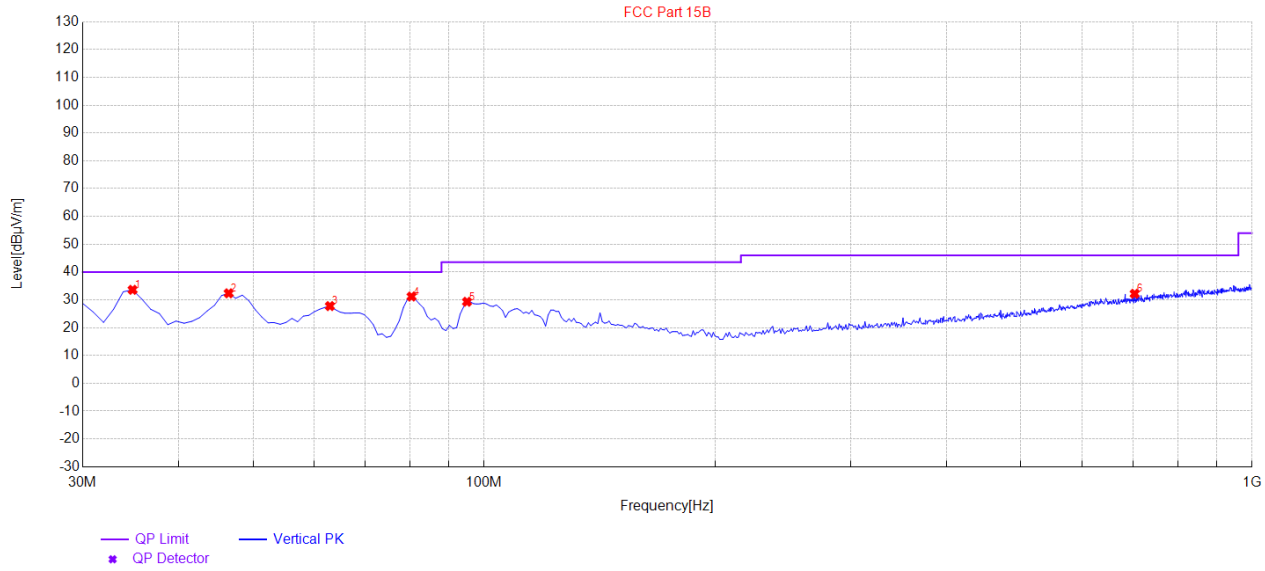
Radiated Emission 30MHz-1GHz Test Result			
Test Mode	Mode 1	Polarity:	Vertical



Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	33.61	14.23	40.00	6.39	100	261	Vertical
2	46.49	32.35	14.41	40.00	7.65	100	3	Vertical
3	62.98	27.75	13.01	40.00	12.25	100	333	Vertical
4	80.44	31.19	10.90	40.00	8.81	100	1	Vertical
5	94.99	29.30	11.25	43.50	14.20	100	156	Vertical
6	703.18	32.18	25.39	46.00	13.82	100	325	Vertical

RESULT: PASS

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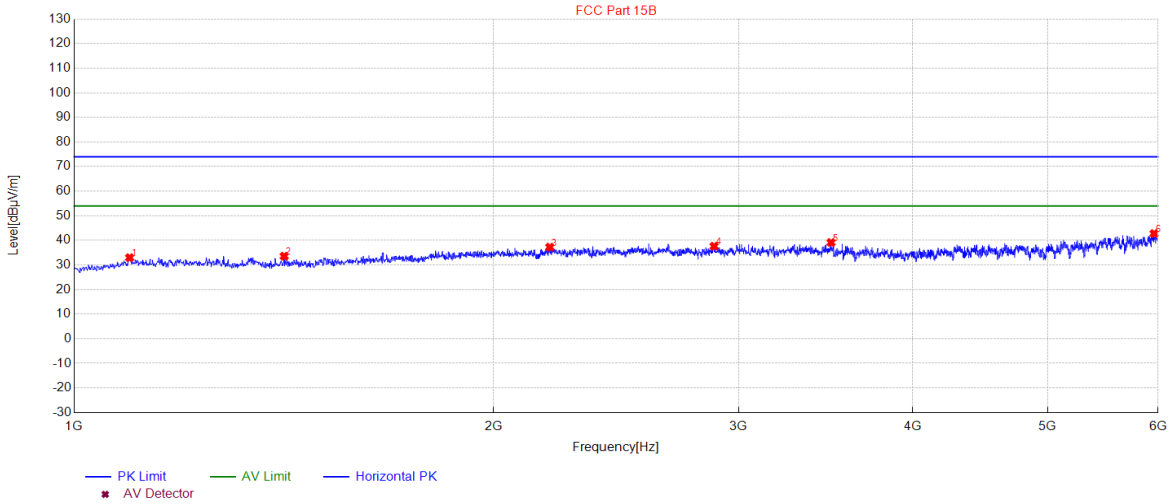
Radiated Emission Above1GHz Test Result			
Test Mode	Mode 1	Polarity:	Horizontal



Final Data List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1096.019204	32.96	-18.21	74.00	41.04	100	60	Horizontal
2	1415.083017	33.56	-17.91	74.00	40.44	100	160	Horizontal
3	2195.239048	37.23	-13.57	74.00	36.77	100	240	Horizontal
4	2880.376075	37.60	-12.20	74.00	36.40	100	120	Horizontal
5	3494.4989	39.12	-11.12	74.00	34.88	100	290	Horizontal
6	5960.992198	42.77	-5.79	74.00	31.23	100	210	Horizontal

RESULT: PASS

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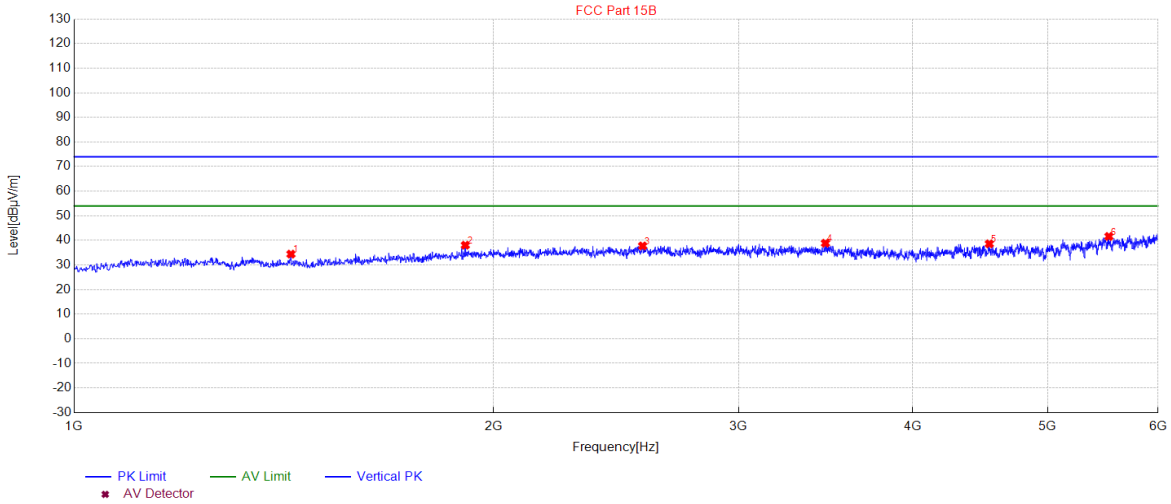
Radiated Emission Above1GHz Test Result			
Test Mode	Mode 1	Polarity:	Vertical



Final Data List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1431.086217	34.40	-17.89	74.00	39.60	100	230	Vertical
2	1909.181836	38.03	-14.86	74.00	35.97	100	210	Vertical
3	2559.311862	37.74	-12.53	74.00	36.26	100	120	Vertical
4	3462.492499	38.83	-11.19	74.00	35.17	100	300	Vertical
5	4539.707942	38.58	-9.41	74.00	35.42	100	160	Vertical
6	5531.906381	41.60	-7.66	74.00	32.40	100	60	Vertical

RESULT: PASS

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Measurement.
2. The “Factor” value can be calculated automatically by software of measurement system.

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6. Conducted Emission Measurements

6.1 Provisions Applicable

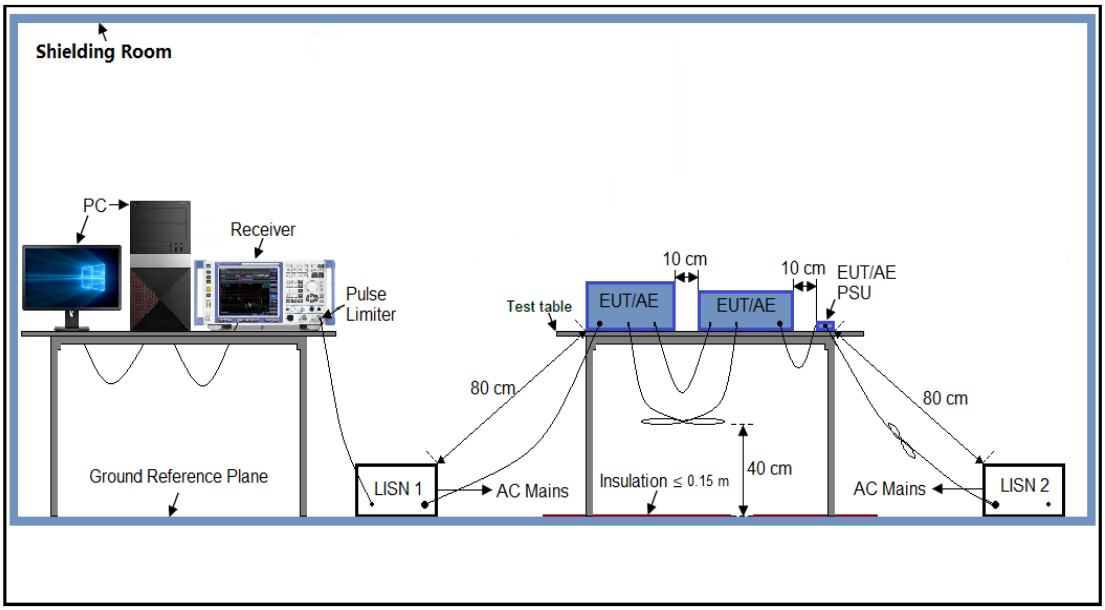
FCC CFR Title 47 Part 15 Subpart B Section 15.107:
For Class B Limits:

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

For Class A Limits:

Frequency	Maximum RF Line Voltage	
	Q.P. (dBμV)	Average (dBμV)
150kHz~500kHz	79	66
500kHz~30MHz	73	60

6.2 Measurement Setup



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6.3 Measurement Procedure

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 C63.4 (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 C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. The EUT received AC 120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipment received AC power from a second LISN, if any.
6. The EUT 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. A conducted emission is calculated by the following equation:
   - Measurement Level (dBμV) = Receiver reading (dBμV) + Transd (dB)
   - Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
   - Margin= Limit-Level
10. The test data of the worst case condition (Mode 1) was reported on the following Data page.

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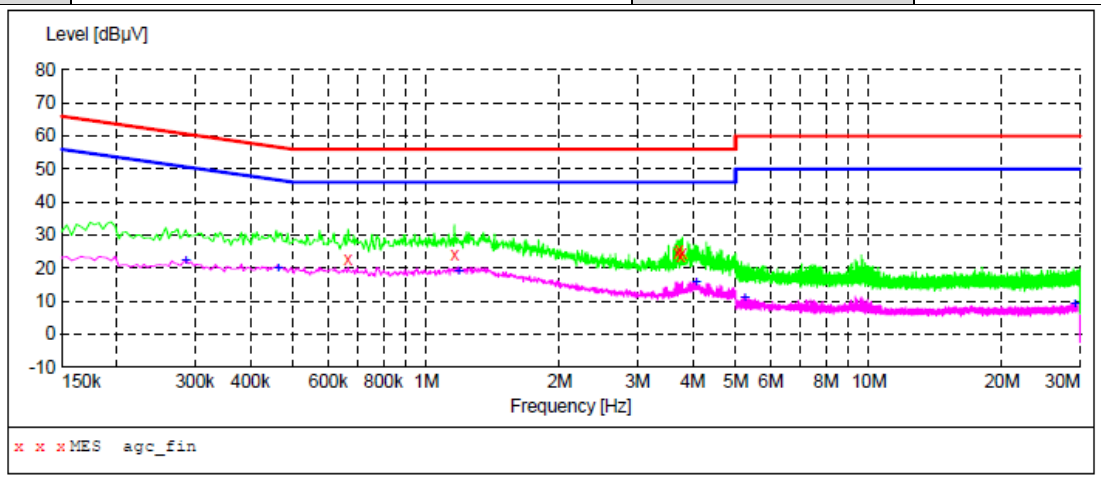
6.4 Measurement Result

Ac Power Line Conducted Emission Test			
Test Mode	Mode 1	LISN Line	Hot Side



MEASUREMENT RESULT: "agc_fin"

2025/8/22 16:41

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.666000	22.60	9.9	56	33.4	QP	L1
1.158000	24.10	9.9	56	31.9	QP	L1
3.690000	24.70	10.0	56	31.3	QP	L1
3.722000	25.40	10.0	56	30.6	QP	L1
3.758000	23.70	10.0	56	32.3	QP	L1
3.790000	24.70	10.0	56	31.3	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/8/22 16:41

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.286000	22.00	9.9	51	28.6	AV	L1
0.462000	20.00	9.9	47	26.7	AV	L1
1.182000	19.10	9.9	46	26.9	AV	L1
4.078000	15.70	10.0	46	30.3	AV	L1
5.246000	10.70	10.0	50	39.3	AV	L1
29.234000	9.10	11.2	50	40.9	AV	L1

RESULT: PASS

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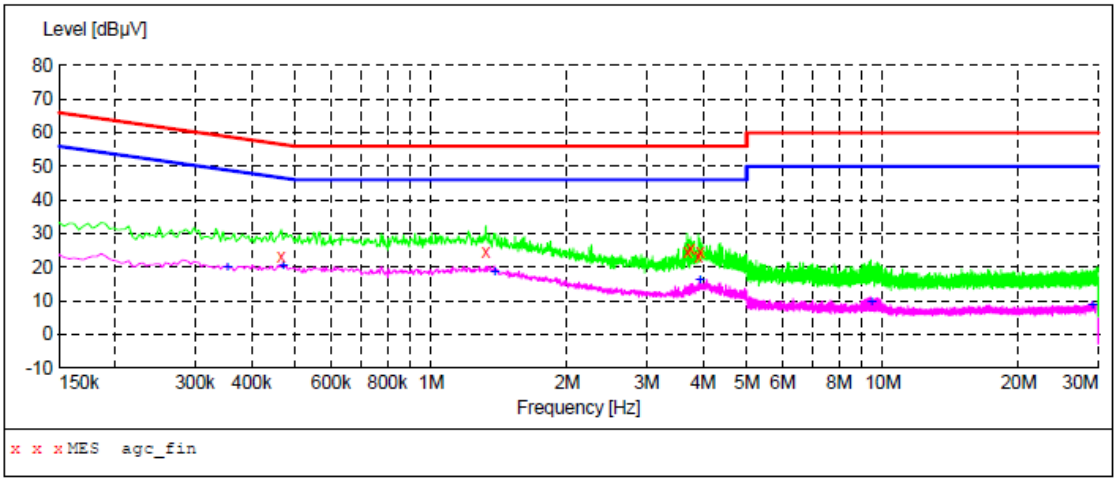
Ac Power Line Conducted Emission Test			
Test Mode	Mode 1	LISN Line	Neutral Side



MEASUREMENT RESULT: "agc_fin"

2025/8/22 16:37

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.466000	23.30	9.9	57	33.3	QP	N
1.322000	24.40	9.9	56	31.6	QP	N
3.690000	24.60	10.0	56	31.4	QP	N
3.754000	25.30	10.0	56	30.7	QP	N
3.906000	23.30	10.0	56	32.7	QP	N
3.938000	24.50	10.0	56	31.5	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/8/22 16:37

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.354000	20.00	9.9	49	28.9	AV	N
0.470000	20.20	9.9	47	26.3	AV	N
1.382000	18.40	9.9	46	27.6	AV	N
3.938000	16.20	10.0	46	29.8	AV	N
9.422000	9.50	10.2	50	40.5	AV	N
29.110000	8.40	11.2	50	41.6	AV	N

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC03397250801AP03A

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC03397250801AP02A

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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
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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.

-----End of Report-----

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