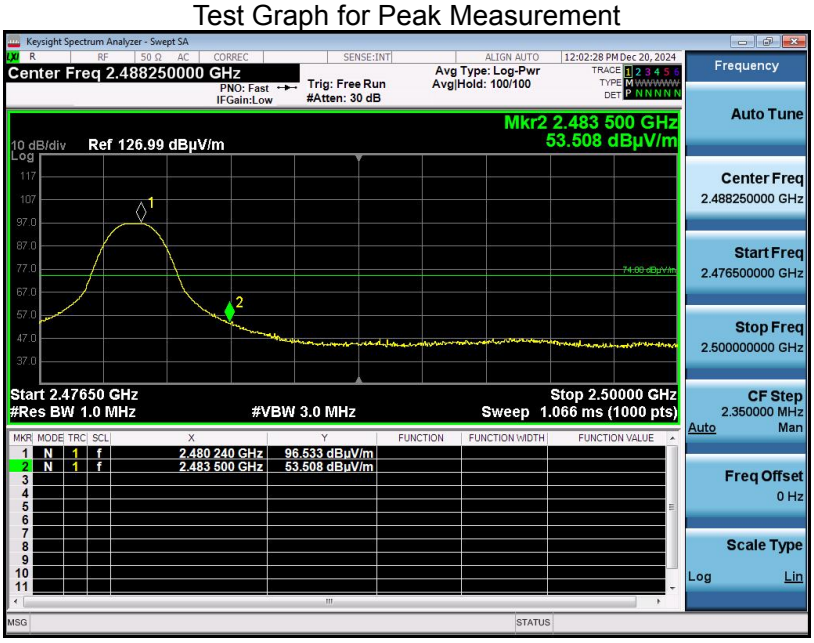
Band Edge Emission Test Results for Restricted Bands

EUT Name	Phone	Model Name	W635C
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

RESULT: PASS

Note: The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

12. AC Power Line Conducted Emission Test

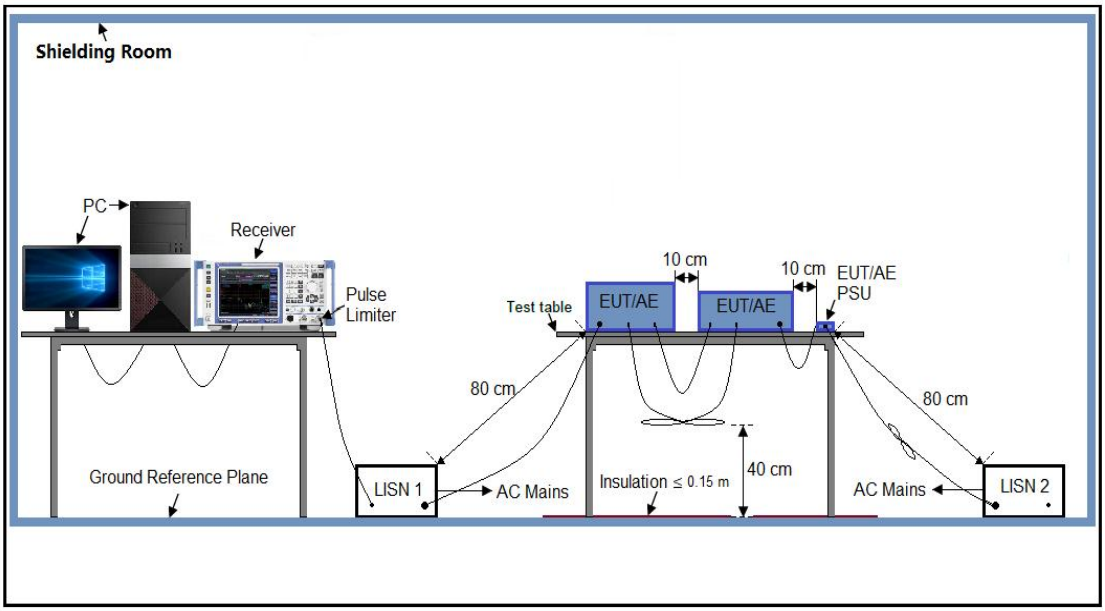
12.1 Measurement Limit

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

12.2 Measurement Setup (Block Diagram of Configuration)



12.3 Preliminary Procedure of Line Conducted Emission Test

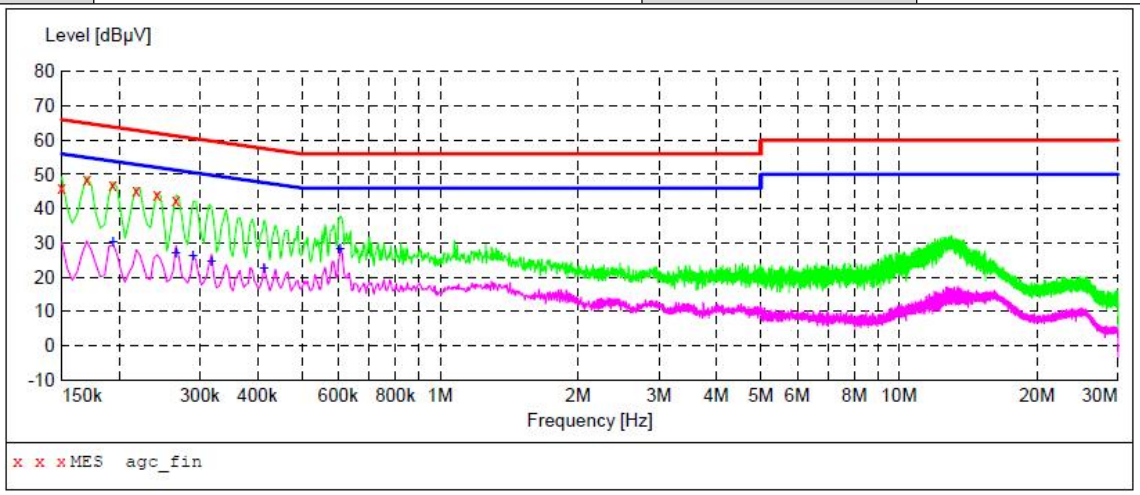
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground 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).
7. 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.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. The test mode(s) were scanned during the preliminary test.
11. Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 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.
3. 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.
4. The test data of the worst case condition(s) was reported on the Summary Data page.
5. 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

12.5 Measurement Result

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



MEASUREMENT RESULT: "agc_fin"

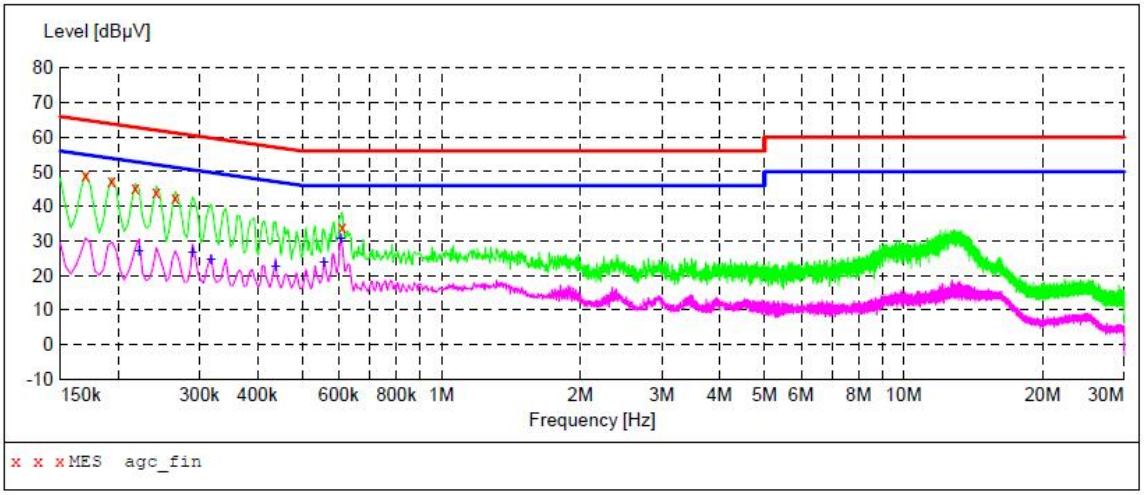
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	46.00	6.1	66	20.0	QP	L1
0.170000	48.70	6.1	65	16.3	QP	L1
0.194000	46.90	6.1	64	17.0	QP	L1
0.218000	45.50	6.1	63	17.4	QP	L1
0.242000	43.90	6.1	62	18.1	QP	L1
0.266000	42.40	6.1	61	18.8	QP	L1

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.194000	30.50	6.1	54	23.4	AV	L1
0.266000	27.30	6.1	51	23.9	AV	L1
0.290000	26.10	6.1	51	24.4	AV	L1
0.318000	24.70	6.1	50	25.1	AV	L1
0.414000	22.80	6.1	48	24.8	AV	L1
0.606000	28.50	6.2	46	17.5	AV	L1

RESULT: PASS

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



MEASUREMENT RESULT: "agc_fin"

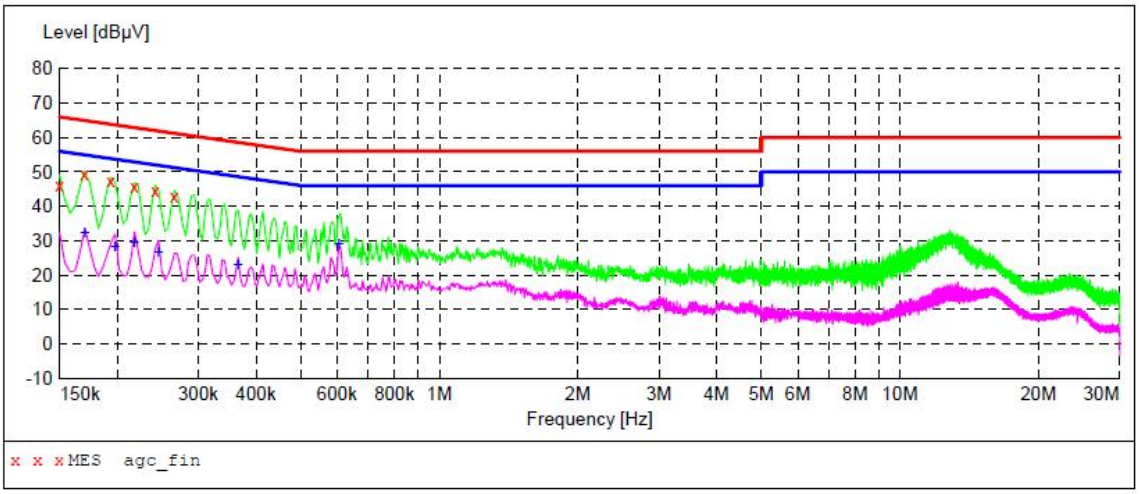
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.170000	49.10	6.1	65	15.9	QP	N
0.194000	47.40	6.1	64	16.5	QP	N
0.218000	45.50	6.1	63	17.4	QP	N
0.242000	44.10	6.1	62	17.9	QP	N
0.266000	42.50	6.1	61	18.7	QP	N
0.610000	33.90	6.2	56	22.1	QP	N

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.222000	27.10	6.1	53	25.6	AV	N
0.290000	26.60	6.1	51	23.9	AV	N
0.318000	24.70	6.1	50	25.1	AV	N
0.438000	22.80	6.1	47	24.3	AV	N
0.558000	23.70	6.2	46	22.3	AV	N
0.606000	30.80	6.2	46	15.2	AV	N

RESULT: PASS

AC Power Line Conducted Emission Test			
Test Mode	Mode 2	LISN Line	Hot Side



MEASUREMENT RESULT: "agc_fin"

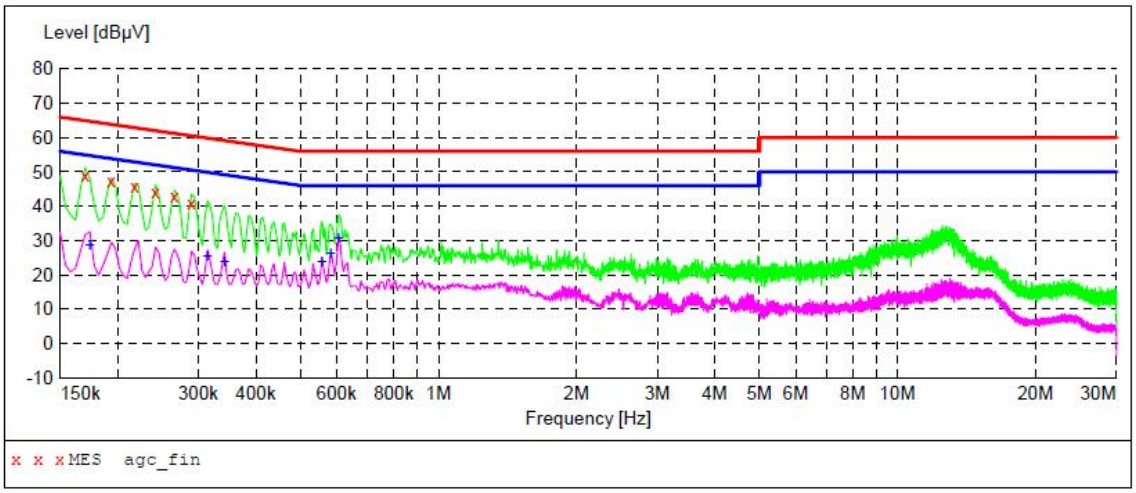
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	46.10	6.1	66	19.9	QP	L1
0.170000	49.40	6.1	65	15.6	QP	L1
0.194000	47.50	6.1	64	16.4	QP	L1
0.218000	45.90	6.1	63	17.0	QP	L1
0.242000	44.50	6.1	62	17.5	QP	L1
0.266000	42.90	6.1	61	18.3	QP	L1

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.170000	32.40	6.1	55	22.6	AV	L1
0.198000	28.30	6.1	54	25.4	AV	L1
0.218000	29.40	6.1	53	23.5	AV	L1
0.246000	26.80	6.1	52	25.1	AV	L1
0.366000	22.90	6.1	49	25.7	AV	L1
0.606000	29.00	6.2	46	17.0	AV	L1

RESULT: PASS

AC Power Line Conducted Emission Test			
Test Mode	Mode 2	LISN Line	Neutral Side



MEASUREMENT RESULT: "agc_fin"

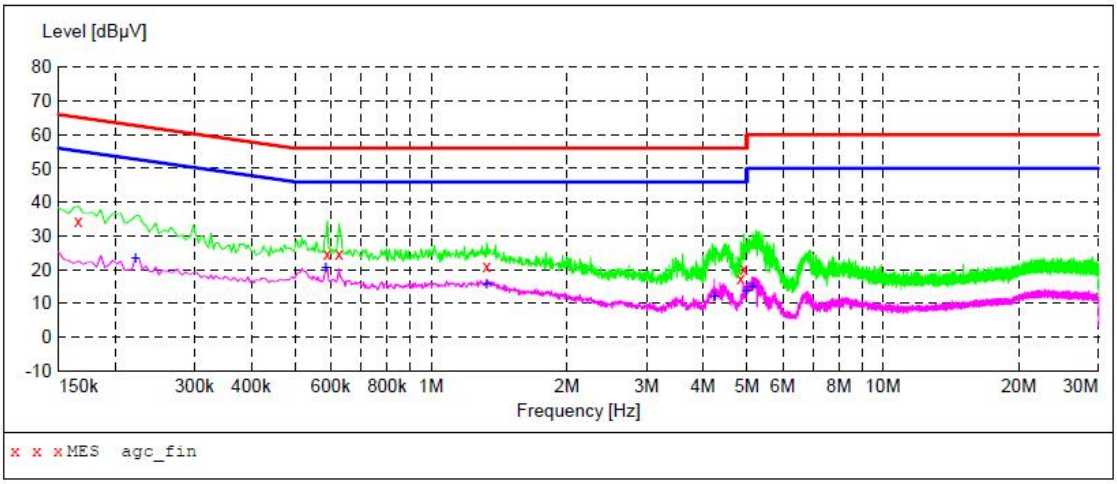
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.170000	49.10	6.1	65	15.9	QP	N
0.194000	47.30	6.1	64	16.6	QP	N
0.218000	45.70	6.1	63	17.2	QP	N
0.242000	44.30	6.1	62	17.7	QP	N
0.266000	42.70	6.1	61	18.5	QP	N
0.290000	40.90	6.1	61	19.6	QP	N

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.174000	28.90	6.1	55	25.9	AV	N
0.314000	25.40	6.1	50	24.5	AV	N
0.342000	24.00	6.1	49	25.2	AV	N
0.558000	23.90	6.2	46	22.1	AV	N
0.582000	26.10	6.2	46	19.9	AV	N
0.606000	30.80	6.2	46	15.2	AV	N

RESULT: PASS

AC Power Line Conducted Emission Test			
Test Mode	Mode 3	LISN Line	Hot Side



MEASUREMENT RESULT: "agc_fin"

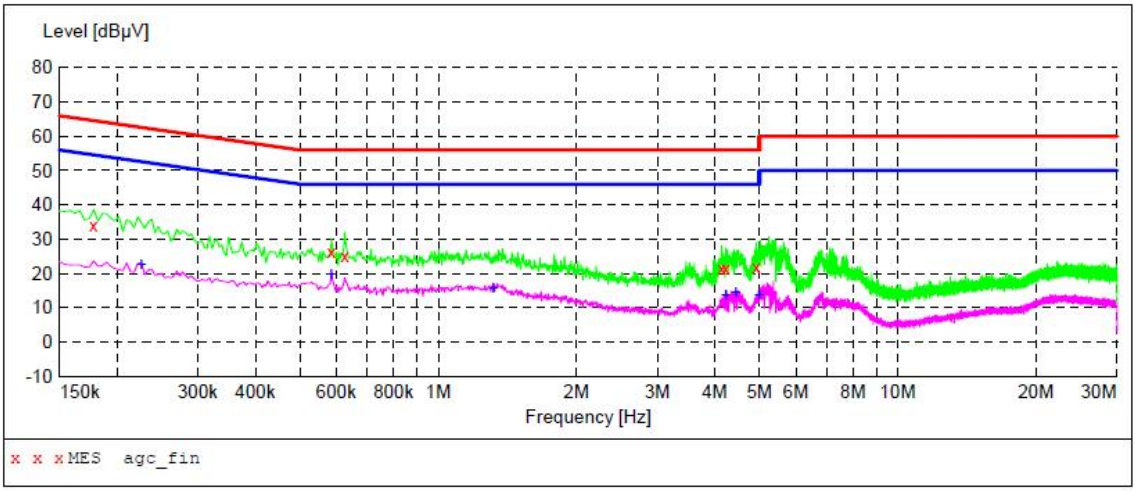
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.166000	34.40	6.1	65	30.8	QP	L1
0.590000	24.80	6.2	56	31.2	QP	L1
0.626000	24.60	6.2	56	31.4	QP	L1
1.330000	21.00	6.2	56	35.0	QP	L1
4.850000	17.30	6.3	56	38.7	QP	L1
4.930000	20.40	6.3	56	35.6	QP	L1

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.222000	23.40	6.1	53	29.3	AV	L1
0.586000	20.50	6.2	46	25.5	AV	L1
1.330000	15.90	6.2	46	30.1	AV	L1
4.234000	12.30	6.3	46	33.7	AV	L1
4.986000	13.60	6.3	46	32.4	AV	L1
5.138000	14.90	6.4	50	35.1	AV	L1

RESULT: PASS

AC Power Line Conducted Emission Test			
Test Mode	Mode 3	LISN Line	Neutral Side



MEASUREMENT RESULT: "agc_fin"

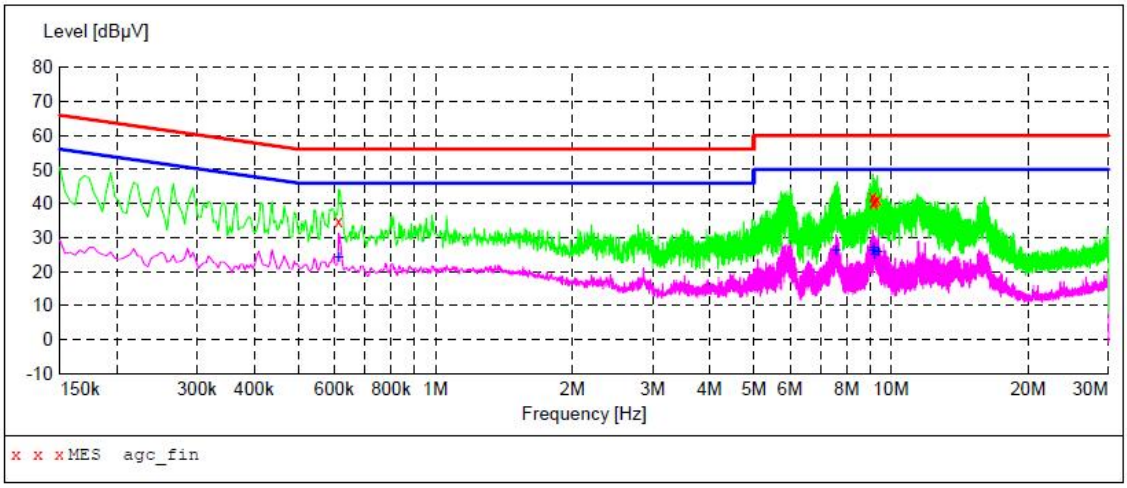
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.178000	33.80	6.1	65	30.8	QP	N
0.586000	26.30	6.2	56	29.7	QP	N
0.626000	25.20	6.2	56	30.8	QP	N
4.138000	21.50	6.3	56	34.5	QP	N
4.226000	21.40	6.3	56	34.6	QP	N
4.926000	22.00	6.3	56	34.0	QP	N

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.226000	22.60	6.1	53	30.0	AV	N
0.586000	19.90	6.2	46	26.1	AV	N
1.318000	15.70	6.2	46	30.3	AV	N
4.230000	13.90	6.3	46	32.1	AV	N
4.442000	14.40	6.3	46	31.6	AV	N
4.990000	13.80	6.3	46	32.2	AV	N

RESULT: PASS

AC Power Line Conducted Emission Test			
Test Mode	Mode 4	LISN Line	Hot Side



MEASUREMENT RESULT: "agc_fin"

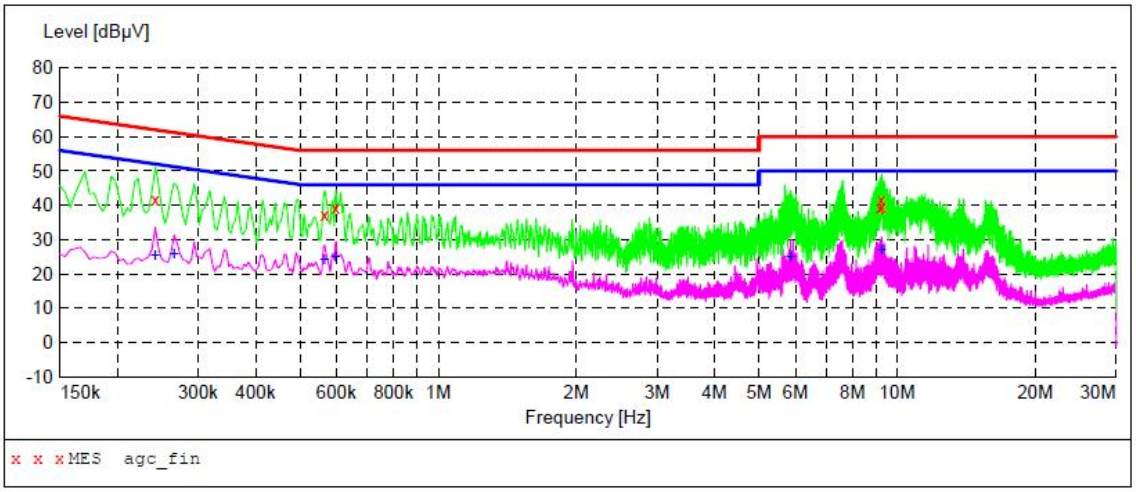
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.614000	35.00	10.3	56	21.0	QP	L1
9.118000	42.30	12.0	60	17.7	QP	L1
9.150000	40.50	12.0	60	19.5	QP	L1
9.190000	40.20	12.0	60	19.8	QP	L1
9.222000	40.80	12.0	60	19.2	QP	L1
9.330000	41.40	12.1	60	18.6	QP	L1

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.614000	24.30	10.3	46	21.7	AV	L1
7.570000	26.20	11.5	50	23.8	AV	L1
9.114000	26.30	12.0	50	23.7	AV	L1
9.158000	26.90	12.0	50	23.1	AV	L1
9.186000	25.00	12.0	50	25.0	AV	L1
9.370000	25.80	12.1	50	24.2	AV	L1

RESULT: PASS

AC Power Line Conducted Emission Test			
Test Mode	Mode 4	LISN Line	Neutral Side



MEASUREMENT RESULT: "agc_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.242000	41.50	10.3	62	20.5	QP	N
0.566000	37.30	10.3	56	18.7	QP	N
0.598000	39.40	10.3	56	16.6	QP	N
9.174000	39.40	12.0	60	20.6	QP	N
9.246000	41.70	12.0	60	18.3	QP	N
9.266000	39.70	12.0	60	20.3	QP	N

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.242000	25.50	10.3	52	26.5	AV	N
0.266000	25.80	10.3	51	25.4	AV	N
0.566000	24.40	10.3	46	21.6	AV	N
0.598000	25.10	10.3	46	20.9	AV	N
5.858000	25.00	11.0	50	25.0	AV	N
9.246000	27.20	12.0	50	22.8	AV	N

RESULT: PASS

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC14499241202AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC14499241202AP02

Conditions of Issuance of Test Reports

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”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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-----