14. LINE CONDUCTED EMISSION TEST

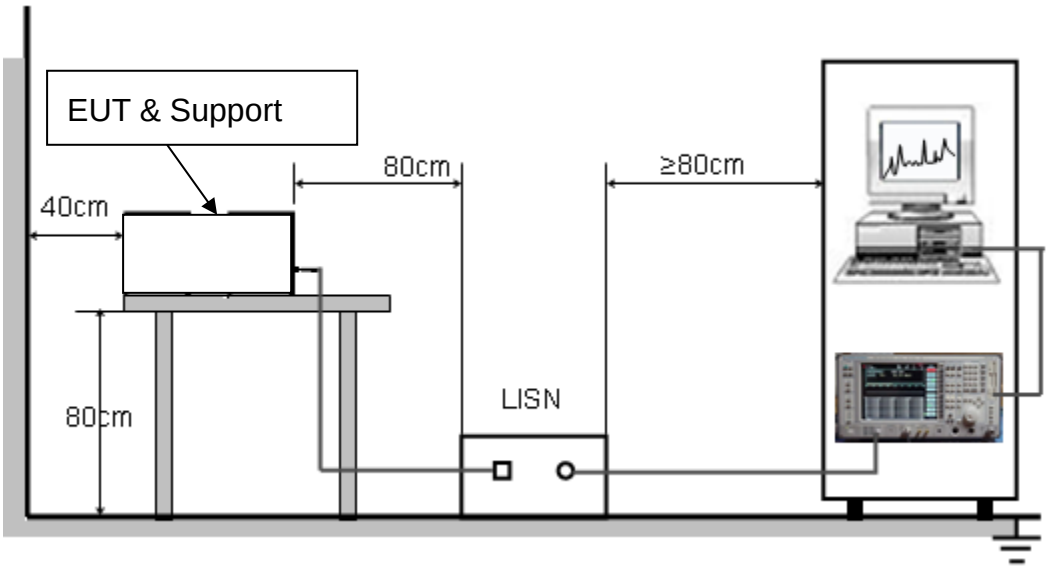
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



14.3. 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 or DC 48V power from PoE 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.

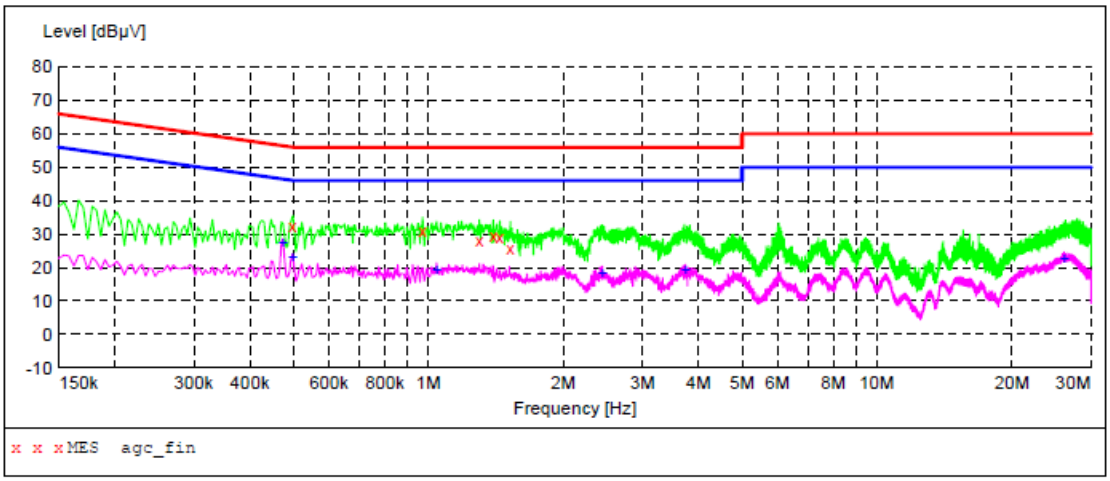
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

14.4. 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.

14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

AC POWER LINE CONDUCTED EMISSION TEST			
Test Mode	Mode 1 by DC 5V adapter	LISN line	Hot Side



MEASUREMENT RESULT: "agc_fin"

2023/7/12 13:42

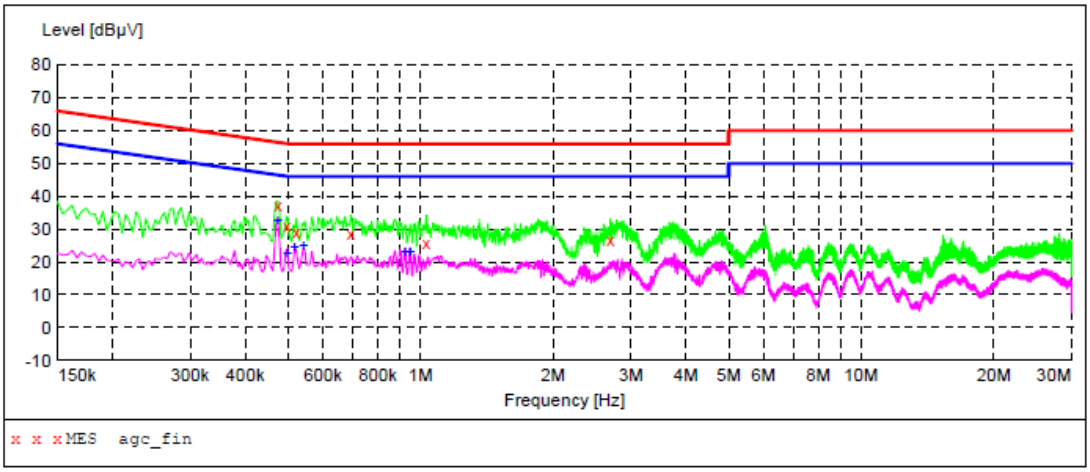
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.498000	32.50	6.1	56	23.5	QP	L1
0.970000	30.90	6.2	56	25.1	QP	L1
1.298000	28.20	6.2	56	27.8	QP	L1
1.394000	29.60	6.2	56	26.4	QP	L1
1.442000	29.00	6.2	56	27.0	QP	L1
1.522000	25.80	6.2	56	30.2	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2023/7/12 13:42

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	27.40	6.1	46	19.0	AV	L1
0.498000	23.30	6.1	46	22.7	AV	L1
1.042000	19.40	6.2	46	26.6	AV	L1
2.442000	18.60	6.3	46	27.4	AV	L1
3.742000	19.20	6.3	46	26.8	AV	L1
26.094000	23.00	8.7	50	27.0	AV	L1

AC POWER LINE CONDUCTED EMISSION TEST			
Test Mode	Mode 1 by DC 5V adapter	LISN line	Neutral Side



MEASUREMENT RESULT: "agc_fin"

2023/7/12 13:39

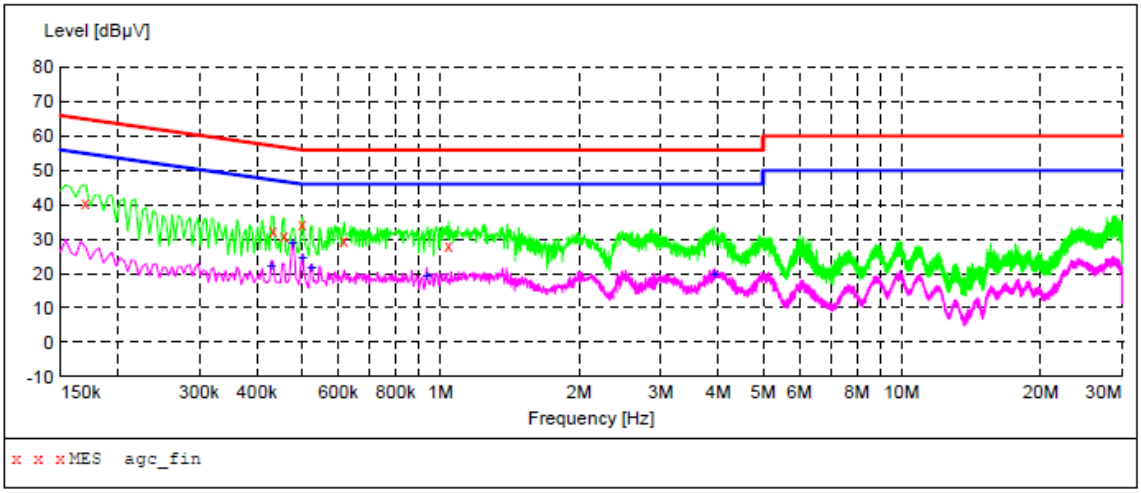
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	37.20	6.1	56	19.2	QP	N
0.498000	31.00	6.1	56	25.0	QP	N
0.522000	28.90	6.1	56	27.1	QP	N
0.694000	28.70	6.2	56	27.3	QP	N
1.030000	25.80	6.2	56	30.2	QP	N
2.694000	26.80	6.3	56	29.2	QP	N

MEASUREMENT RESULT: "agc_fin2"

2023/7/12 13:39

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	32.70	6.1	46	13.7	AV	N
0.498000	23.00	6.1	46	23.0	AV	N
0.518000	24.90	6.1	46	21.1	AV	N
0.542000	25.30	6.1	46	20.7	AV	N
0.922000	23.40	6.2	46	22.6	AV	N
0.946000	23.40	6.2	46	22.6	AV	N

AC POWER LINE CONDUCTED EMISSION TEST			
Test Mode	Mode 13 by DC 48V PoE	LISN line	Hot Side



MEASUREMENT RESULT: "agc_fin"

2023/7/12 16:55

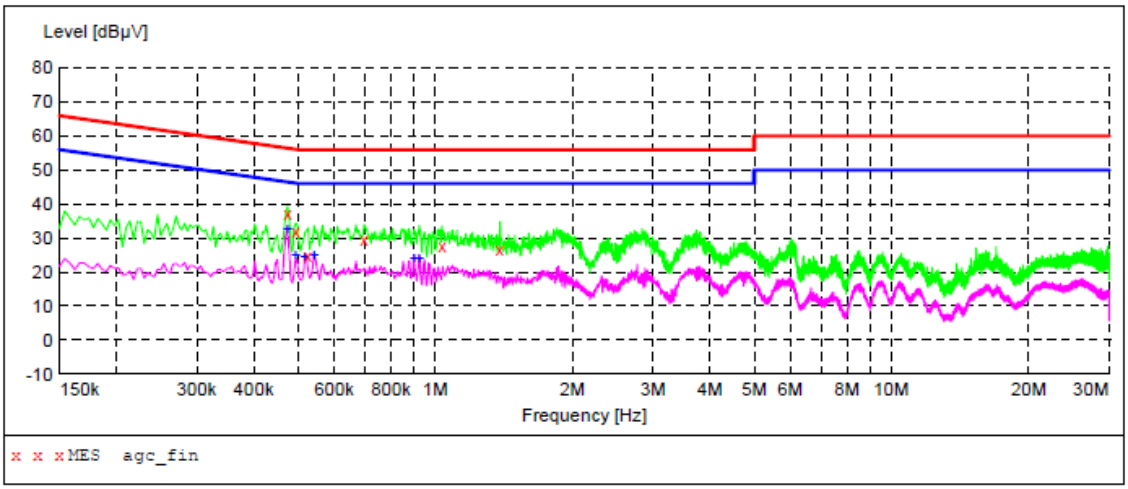
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.170000	40.40	6.1	65	24.6	QP	L1
0.434000	32.50	6.1	57	24.7	QP	L1
0.458000	31.10	6.1	57	25.6	QP	L1
0.502000	34.30	6.1	56	21.7	QP	L1
0.618000	29.60	6.2	56	26.4	QP	L1
1.042000	27.90	6.2	56	28.1	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2023/7/12 16:55

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.430000	22.40	6.1	47	24.9	AV	L1
0.478000	29.20	6.1	46	17.2	AV	L1
0.502000	24.80	6.1	46	21.2	AV	L1
0.526000	21.60	6.1	46	24.4	AV	L1
0.934000	19.50	6.2	46	26.5	AV	L1
3.926000	19.90	6.3	46	26.1	AV	L1

AC POWER LINE CONDUCTED EMISSION TEST			
Test Mode	Mode 13 by DC 48V PoE	LISN line	Neutral Side



MEASUREMENT RESULT: "agc_fin"

2023/7/12 14:31

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	37.20	6.1	56	19.2	QP	N
0.494000	32.00	6.1	56	24.1	QP	N
0.526000	24.90	6.1	56	31.1	QP	N
0.698000	29.40	6.2	56	26.6	QP	N
1.034000	27.60	6.2	56	28.4	QP	N
1.386000	26.40	6.2	56	29.6	QP	N

MEASUREMENT RESULT: "agc_fin2"

2023/7/12 14:31

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	33.00	6.1	46	13.4	AV	N
0.494000	25.20	6.1	46	20.9	AV	N
0.518000	24.90	6.1	46	21.1	AV	N
0.542000	25.10	6.1	46	20.9	AV	N
0.898000	24.10	6.2	46	21.9	AV	N
0.922000	24.00	6.2	46	22.0	AV	N

APPENDIX I: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC14499230609AP01

APPENDIX II: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC14499230609AP02

----END OF REPORT----

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.