

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). 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.

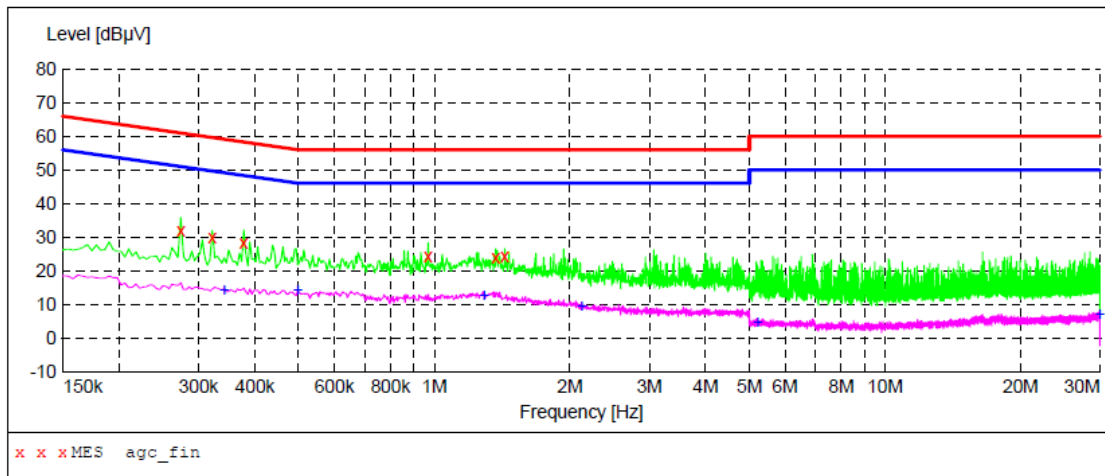
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

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. 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.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L-1Mbps



MEASUREMENT RESULT: "agc_fin"

2023/1/6 20:04

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.274000	31.80	6.1	61	29.2	QP	L1
0.322000	29.70	5.9	60	30.0	QP	L1
0.378000	28.30	5.8	58	30.0	QP	L1
0.970000	24.20	5.4	56	31.8	QP	L1
1.370000	23.90	5.9	56	32.1	QP	L1
1.434000	24.40	6.0	56	31.6	QP	L1

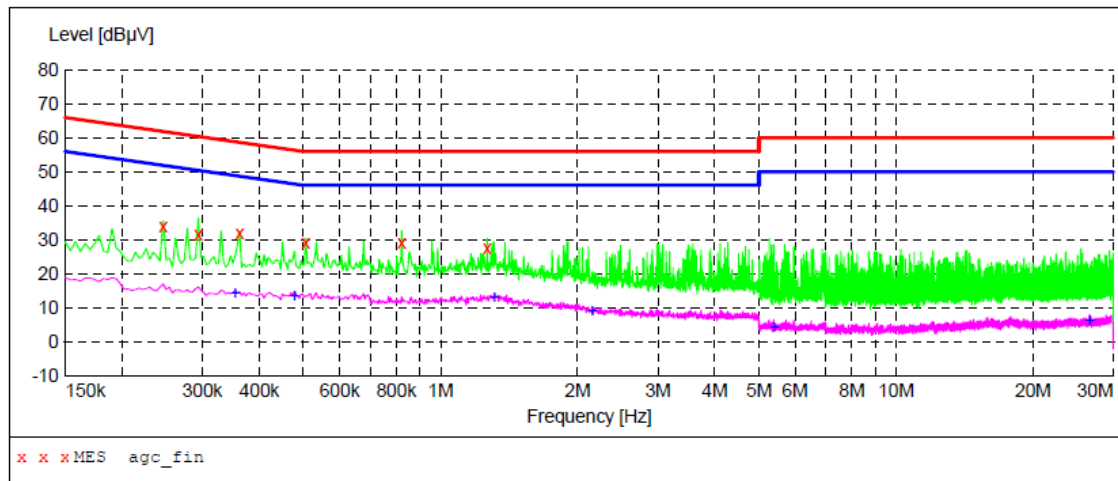
MEASUREMENT RESULT: "agc_fin2"

2023/1/6 20:03

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.342000	14.20	5.9	49	35.0	AV	L1
0.498000	14.40	5.4	46	31.6	AV	L1
1.290000	12.80	5.8	46	33.2	AV	L1
2.122000	9.40	6.5	46	36.6	AV	L1
5.210000	4.70	6.6	50	45.3	AV	L1
29.970000	7.00	9.6	50	43.0	AV	L1

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Line Conducted Emission Test Line 2-N-1Mbps



MEASUREMENT RESULT: "agc_fin"

2023/1/6 20:08

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.246000	33.90	6.3	62	28.0	QP	N
0.294000	31.60	6.1	60	28.8	QP	N
0.362000	31.80	5.8	59	26.9	QP	N
0.506000	29.00	5.4	56	27.0	QP	N
0.822000	29.10	5.4	56	26.9	QP	N
1.266000	27.50	5.8	56	28.5	QP	N

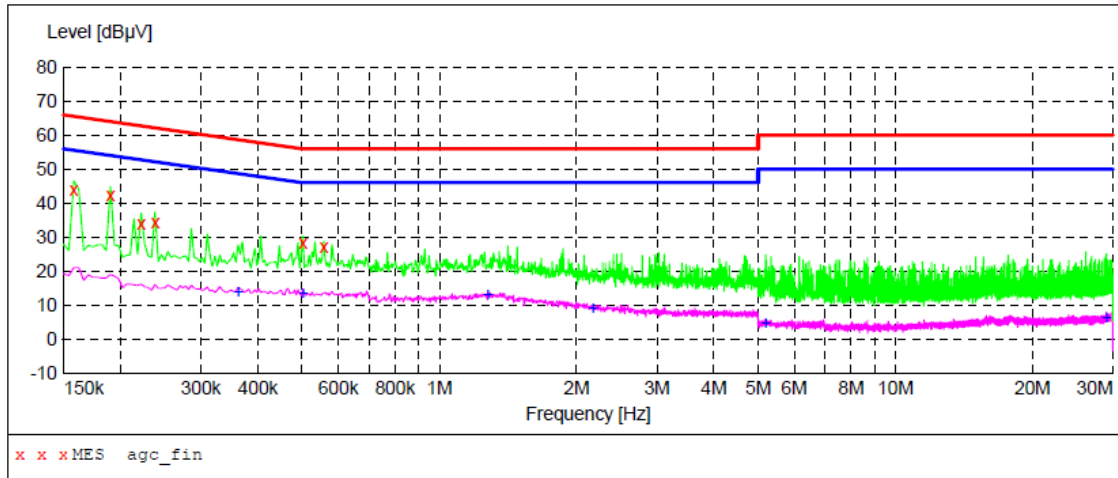
MEASUREMENT RESULT: "agc_fin2"

2023/1/6 20:07

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.354000	14.30	5.8	49	34.6	AV	N
0.478000	13.60	5.5	46	32.8	AV	N
1.314000	12.90	5.8	46	33.1	AV	N
2.154000	9.30	6.5	46	36.7	AV	N
5.394000	4.40	6.6	50	45.6	AV	N
26.610000	6.40	9.3	50	43.6	AV	N

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Line Conducted Emission Test Line 1-L-2Mbps


MEASUREMENT RESULT: "agc_fin"

2023/1/6 20:16

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	44.00	6.8	66	21.6	QP	L1
0.190000	42.40	6.6	64	21.6	QP	L1
0.222000	33.90	6.4	63	28.8	QP	L1
0.238000	34.50	6.3	62	27.7	QP	L1
0.502000	28.30	5.4	56	27.7	QP	L1
0.558000	27.30	5.4	56	28.7	QP	L1

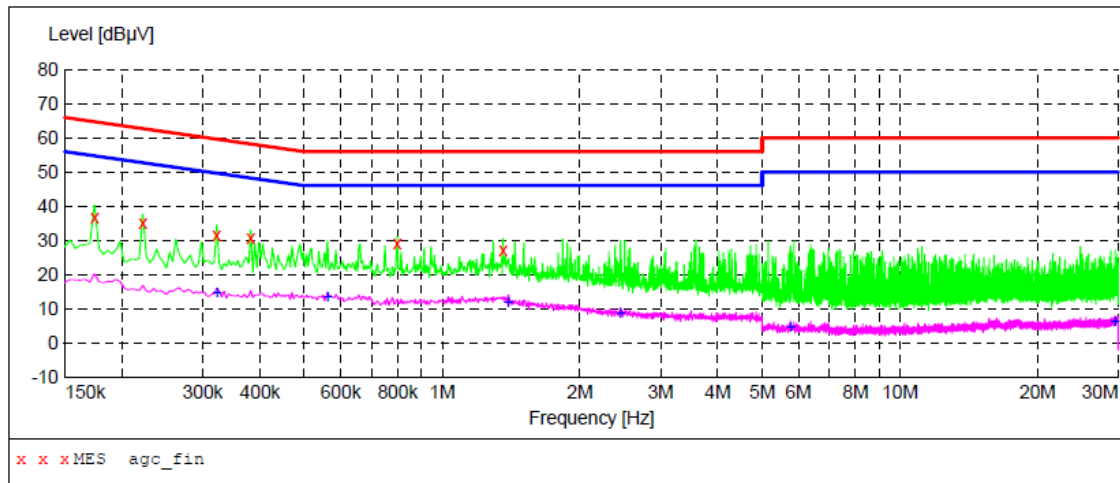
MEASUREMENT RESULT: "agc_fin2"

2023/1/6 20:14

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	14.10	5.8	49	34.6	AV	L1
0.502000	13.30	5.4	46	32.7	AV	L1
1.278000	12.90	5.8	46	33.1	AV	L1
2.170000	9.20	6.5	46	36.8	AV	L1
5.190000	4.70	6.6	50	45.3	AV	L1
29.054000	6.20	9.5	50	43.8	AV	L1

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Line Conducted Emission Test Line 2-N-2Mbps



MEASUREMENT RESULT: "agc_fin"

2023/1/6 20:12

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.174000	36.70	6.7	65	28.1	QP	N
0.222000	35.20	6.4	63	27.5	QP	N
0.322000	31.60	5.9	60	28.1	QP	N
0.382000	30.90	5.7	58	27.3	QP	N
0.798000	29.10	5.4	56	26.9	QP	N
1.358000	27.10	5.9	56	28.9	QP	N

MEASUREMENT RESULT: "agc_fin2"

2023/1/6 20:10

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.322000	14.50	5.9	50	35.2	AV	N
0.562000	13.30	5.4	46	32.7	AV	N
1.394000	12.00	5.9	46	34.0	AV	N
2.454000	8.80	6.5	46	37.2	AV	N
5.766000	4.50	6.6	50	45.5	AV	N
29.514000	6.30	9.5	50	43.7	AV	N

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC00408221201AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC00408221201AP03

----END OF REPORT----

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



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