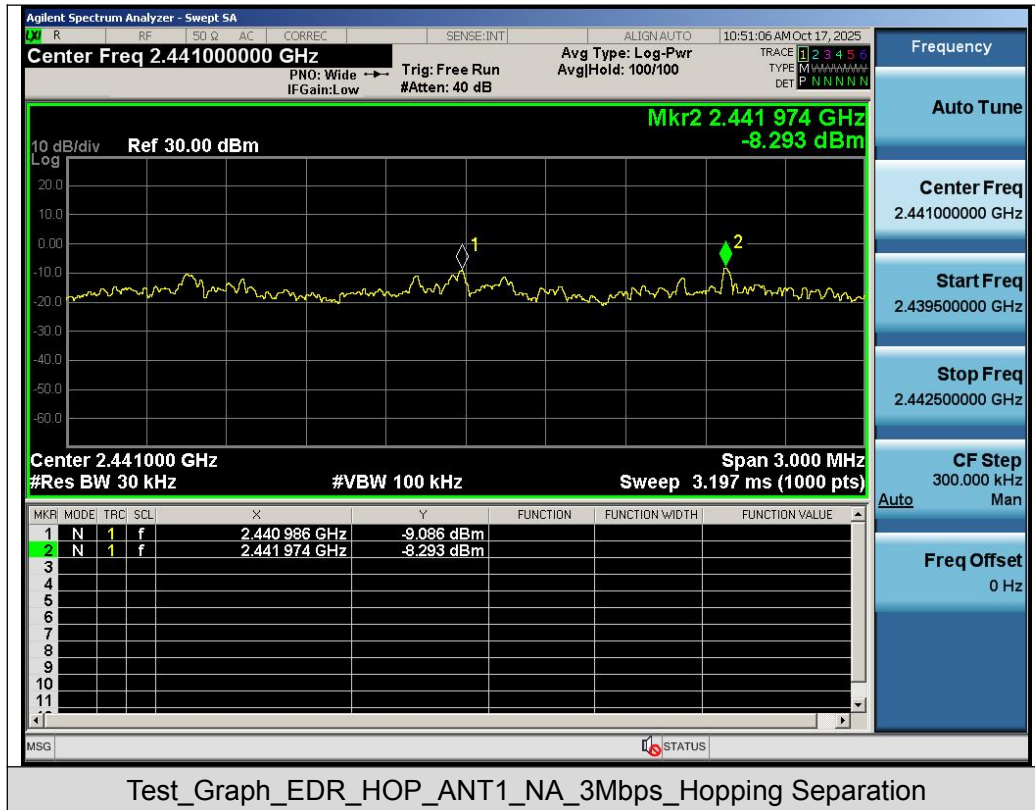




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13. AC Power Line Conducted Emission Test

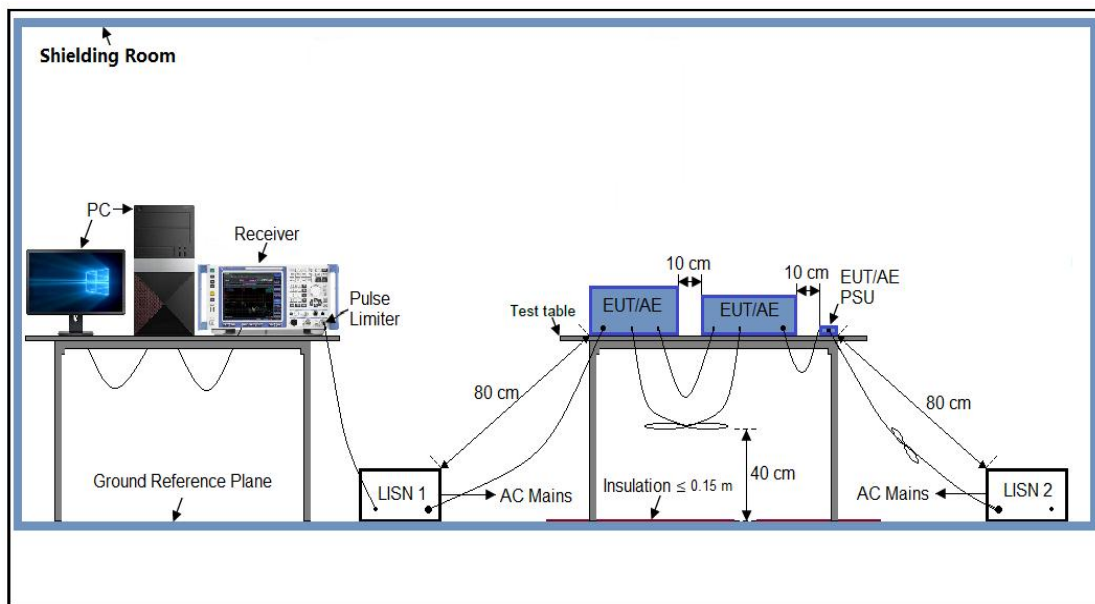
13.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dB μ V)	Average (dB μ V)
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.

13.2 Measurement Setup (Block Diagram of Configuration)



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13.3 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.

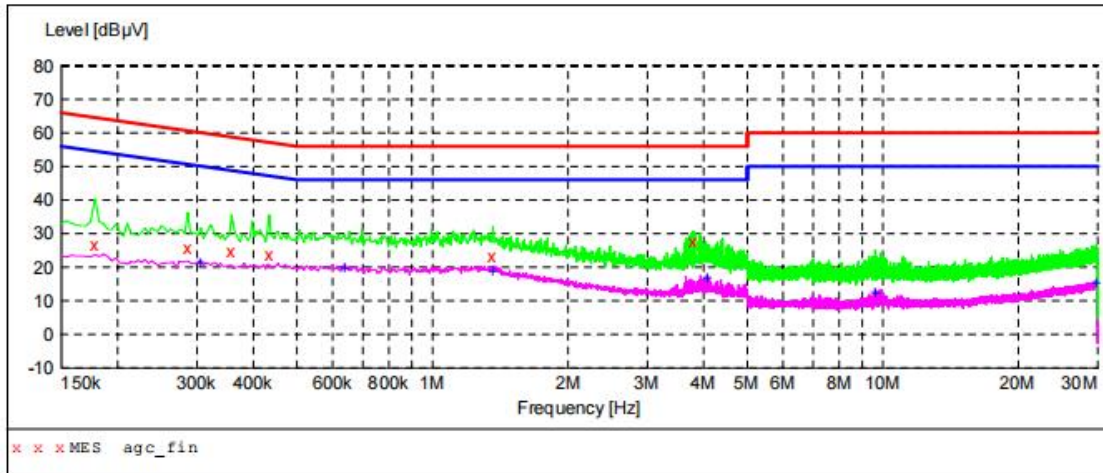
13.4 Final Procedure of Line Conducted Emission Test

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 (dB μ V) = Receiver reading (dB μ V) + Transd (dB)
 - Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin= Limit-Level

13.5 Measurement Result

AC Power Line Conducted Emission Test - Main Model: M1-BTD4

Test Mode	Mode 1	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/9/30 10:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.178000	26.80	10.3	65	37.8	QP	N
0.286000	25.70	10.3	61	34.9	QP	N
0.358000	24.90	10.3	59	33.9	QP	N
0.434000	23.50	10.3	57	33.7	QP	N
1.362000	23.40	10.4	56	32.6	QP	N
3.786000	27.60	10.6	56	28.4	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/9/30 10:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.306000	21.00	10.3	50	29.1	AV	N
0.638000	19.60	10.3	46	26.4	AV	N
1.366000	18.90	10.4	46	27.1	AV	N
4.078000	17.00	10.7	46	29.0	AV	N
9.618000	12.30	12.2	50	37.7	AV	N
29.770000	15.40	18.1	50	34.6	AV	N

RESULT: PASS

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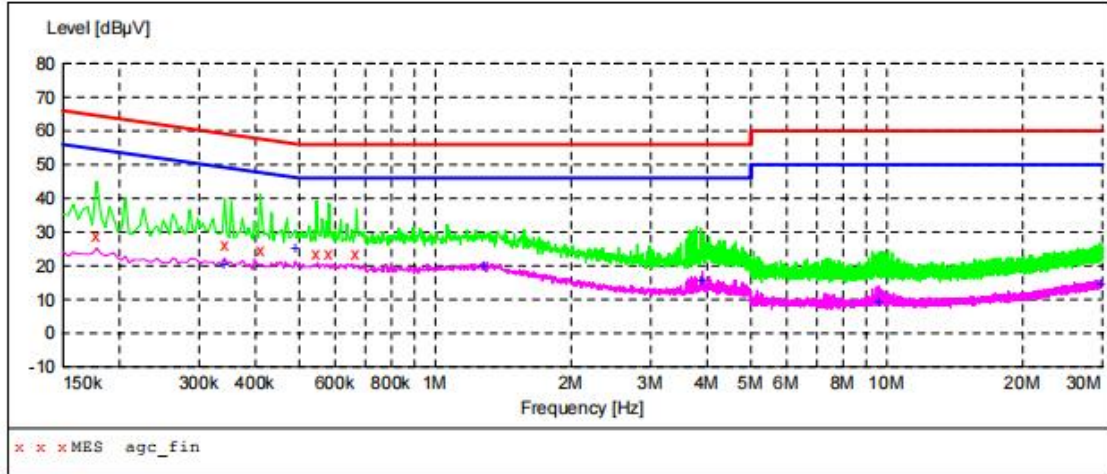
AC Power Line Conducted Emission Test - Main Model: M1-BTD4

Test Mode

Mode 1

LISN Line

Hot Side


MEASUREMENT RESULT: "agc_fin"

2025/9/30 9:59

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.178000	28.90	10.3	65	35.7	QP	L1
0.342000	26.00	10.3	59	33.2	QP	L1
0.410000	24.40	10.3	58	33.2	QP	L1
0.546000	23.60	10.3	56	32.4	QP	L1
0.582000	23.50	10.3	56	32.5	QP	L1
0.670000	23.70	10.3	56	32.3	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/9/30 9:59

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.342000	20.50	10.3	49	28.7	AV	L1
0.490000	25.10	10.3	46	21.1	AV	L1
1.282000	19.70	10.4	46	26.3	AV	L1
3.902000	15.70	10.7	46	30.3	AV	L1
9.582000	9.20	12.1	50	40.8	AV	L1
29.866000	14.50	18.1	50	35.5	AV	L1

RESULT: PASS

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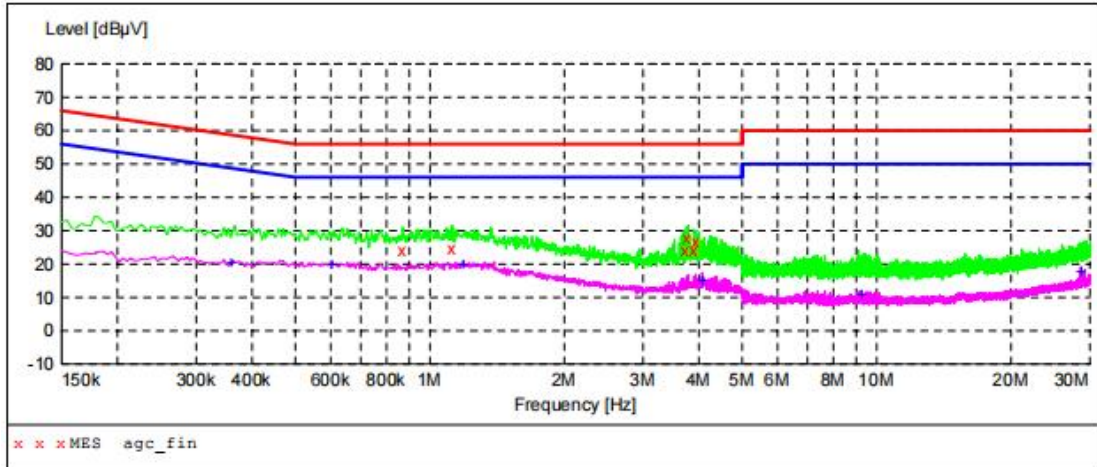
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AC Power Line Conducted Emission Test - Series Model: M1-BTD3

Test Mode	Mode 1	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/10/13 11:10

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.870000	23.90	10.4	56	32.1	QP	N
1.122000	24.50	10.4	56	31.5	QP	N
3.750000	24.20	10.6	56	31.8	QP	N
3.786000	27.60	10.6	56	28.4	QP	N
3.898000	24.30	10.7	56	31.7	QP	N
3.934000	26.90	10.7	56	29.1	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/10/13 11:10

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.362000	20.30	10.3	49	28.4	AV	N
0.606000	19.70	10.3	46	26.3	AV	N
1.190000	19.60	10.4	46	26.4	AV	N
4.074000	15.30	10.7	46	30.7	AV	N
9.242000	10.90	12.0	50	39.1	AV	N
28.682000	17.60	17.7	50	32.4	AV	N

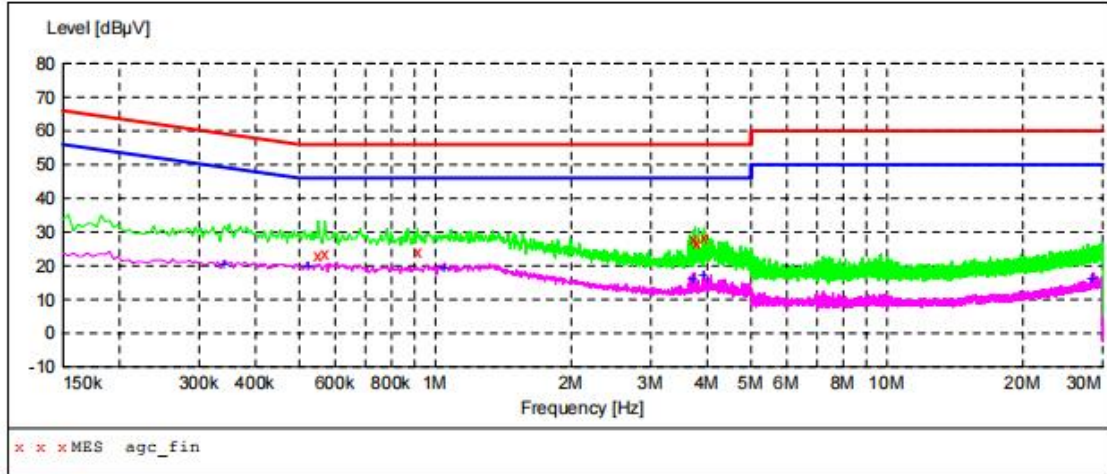
RESULT: PASS

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AC Power Line Conducted Emission Test - Series Model: M1-BTD3

Test Mode	Mode 1	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2025/10/13 11:14

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.550000	23.10	10.3	56	32.9	QP	L1
0.570000	23.40	10.3	56	32.6	QP	L1
0.914000	24.10	10.4	56	31.9	QP	L1
3.754000	27.80	10.6	56	28.2	QP	L1
3.826000	26.60	10.7	56	29.4	QP	L1
3.938000	28.20	10.7	56	27.8	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/10/13 11:14

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.342000	20.40	10.3	49	28.8	AV	L1
0.522000	19.70	10.3	46	26.3	AV	L1
1.050000	19.30	10.4	46	26.7	AV	L1
3.722000	16.20	10.6	46	29.8	AV	L1
3.938000	17.30	10.7	46	28.7	AV	L1
28.566000	16.00	17.7	50	34.0	AV	L1

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC15344250902AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC15344250902AP02

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

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