

Band Edge Emission Test Results for Restricted Bands

EUT Name	Portable Power Station	Model Name	Elite 100 V2
Temperature	22°C	Relative Humidity	54%
Pressure	960hPa	Test Voltage	AC 120V/60Hz

802.11b_TX CH01_2412 MHz

Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	45.94	29.99	30.21	8.35	54.07	74	19.93	Peak	Horizontal
2	2390.00	37.22	29.99	30.21	8.35	45.354	54	8.65	AV ^[1]	Horizontal
3	2390.00	42.29	29.99	30.21	8.35	50.42	74	23.58	Peak	Vertical
4	2390.00	33.51	29.99	30.21	8.35	41.64	54	12.36	AV ^[1]	Vertical

802.11b_TX CH11_2462 MHz

Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	45.76	30.25	30.25	8.5	54.261	74	19.74	Peak	Horizontal
2	2483.50	36.56	30.25	30.25	8.5	45.061	54	8.94	AV ^[1]	Horizontal
3	2483.50	43.33	30.25	30.25	8.5	51.833	74	22.17	Peak	Vertical
4	2483.50	33.90	30.25	30.25	8.5	42.403	54	11.60	AV ^[1]	Vertical

802.11g_TX CH01_2412 MHz

Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	57.39	29.99	30.21	8.35	65.521	74	8.48	Peak	Horizontal
2	2390.00	43.29	29.99	30.21	8.35	51.423	54	2.58	AV	Horizontal
3	2390.00	55.67	29.99	30.21	8.35	63.799	74	10.20	Peak	Vertical
4	2390.00	41.37	29.99	30.21	8.35	49.496	54	4.50	AV	Vertical

802.11g_TX CH11_2462 MHz

Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	59.67	30.25	30.25	8.5	68.166	74	5.83	Peak	Horizontal
2	2483.50	42.99	30.25	30.25	8.5	51.49	54	2.51	AV	Horizontal
3	2483.50	57.69	30.25	30.25	8.5	66.192	74	7.81	Peak	Vertical
4	2483.50	41.42	30.25	30.25	8.5	49.923	54	4.08	AV	Vertical

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802.11n-HT20_TX CH01_2412 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	59.18	29.99	30.21	8.35	67.311	74	6.69	Peak	Horizontal
2	2390.00	42.36	29.99	30.21	8.35	50.486	54	3.51	AV	Horizontal
3	2390.00	56.19	29.99	30.21	8.35	64.319	74	9.68	Peak	Vertical
4	2390.00	39.94	29.99	30.21	8.35	48.074	54	5.93	AV	Vertical

802.11n-HT20_TX CH11_2462 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	56.93	30.25	30.25	8.5	65.429	74	8.57	Peak	Horizontal
2	2483.50	41.86	30.25	30.25	8.5	50.361	54	3.64	AV	Horizontal
3	2483.50	54.19	30.25	30.25	8.5	62.691	74	11.31	Peak	Vertical
4	2483.50	38.10	30.25	30.25	8.5	46.599	54	7.40	AV	Vertical

802.11n-HT40_TX CH03_2422 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	58.20	29.99	30.21	8.35	66.329	74	7.67	Peak	Horizontal
2	2390.00	42.44	29.99	30.21	8.35	50.565	54	3.44	AV	Horizontal
3	2390.00	54.66	29.99	30.21	8.35	62.787	74	11.21	Peak	Vertical
4	2390.00	39.25	29.99	30.21	8.35	47.381	54	6.62	AV	Vertical

802.11n-HT40_TX CH09_2452 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	55.54	30.25	30.25	8.5	64.041	74	9.96	Peak	Horizontal
2	2483.50	42.55	30.25	30.25	8.5	51.045	54	2.96	AV	Horizontal
3	2483.50	53.52	30.25	30.25	8.5	62.016	74	11.98	Peak	Vertical
4	2483.50	41.53	30.25	30.25	8.5	50.031	54	3.97	AV	Vertical

Remark:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. The other emission levels were very low against the limit.
3. Margin = Limit - Emission Level.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=3MHz/Sweep time=Auto/Detector=Average.

RESULT: Pass

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12. AC Power Line Conducted Emission

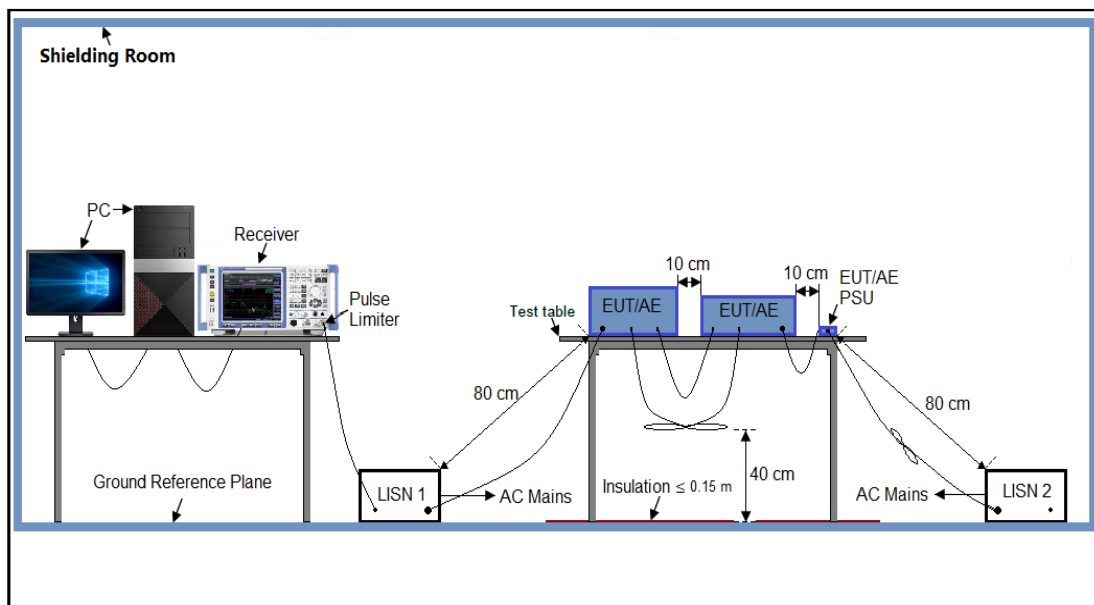
12.1 Measurement Limits

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

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 Block Diagram of Line Conducted Emission Test



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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 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.

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

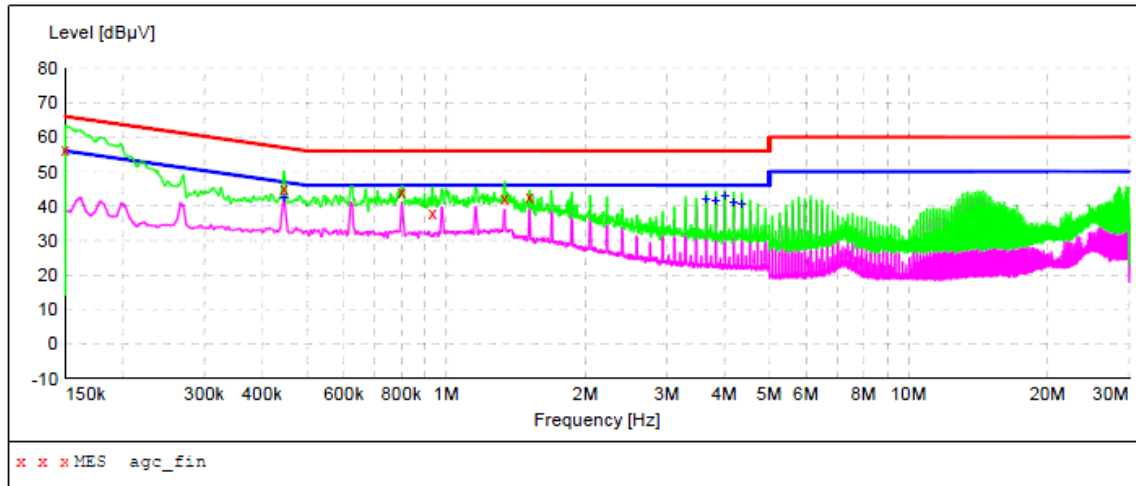
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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 was reported on the Summary Data page.
4. 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 Test Result of Line Conducted Emission Test

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AC Power Line Conducted Emission Test

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

2025/6/13 9:51

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	56.60	10.3	66	9.4	QP	L1
0.446000	44.80	10.3	57	12.1	QP	L1
0.802000	44.10	10.4	56	11.9	QP	L1
0.934000	38.00	10.4	56	18.0	QP	L1
1.338000	42.20	10.4	56	13.8	QP	L1
1.514000	42.70	10.4	56	13.3	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/6/13 9:51

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.446000	42.70	10.3	47	4.2	AV	L1
3.650000	42.40	10.6	46	3.6	AV	L1
3.830000	41.70	10.6	46	4.3	AV	L1
4.006000	42.90	10.7	46	3.1	AV	L1
4.186000	41.20	10.7	46	4.8	AV	L1
4.362000	41.00	10.7	46	5.0	AV	L1

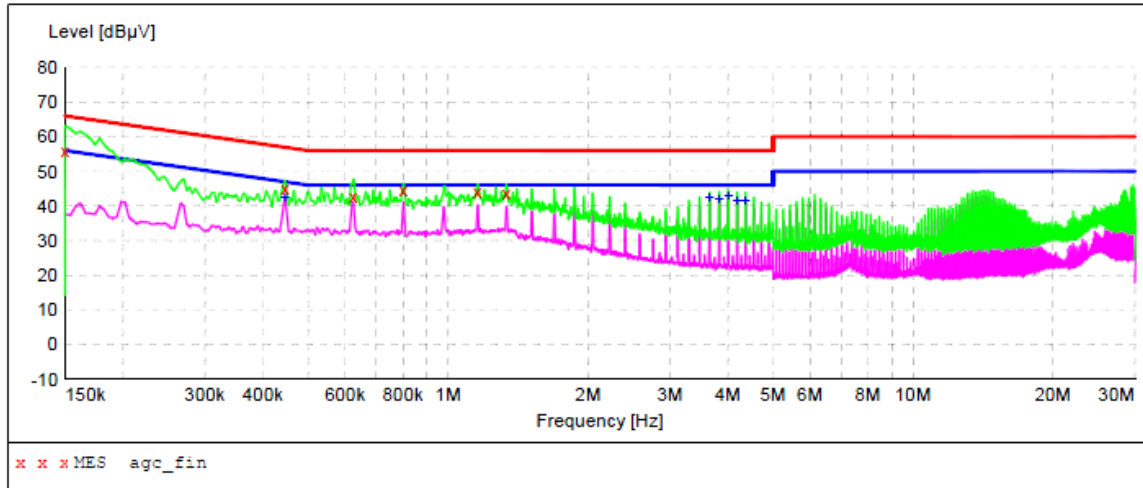
RESULT: Pass

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AC Power Line Conducted Emission Test

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

2025/6/13 9:46

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	56.10	10.3	66	9.9	QP	N
0.446000	44.80	10.3	57	12.1	QP	N
0.626000	42.50	10.3	56	13.5	QP	N
0.802000	44.50	10.4	56	11.5	QP	N
1.158000	44.00	10.4	56	12.0	QP	N
1.334000	43.80	10.4	56	12.2	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/6/13 9:46

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.446000	42.80	10.3	47	4.1	AV	N
3.650000	42.60	10.6	46	3.4	AV	N
3.830000	42.00	10.6	46	4.0	AV	N
4.006000	43.30	10.7	46	4.7	AV	N
4.186000	41.70	10.7	46	4.3	AV	N
4.362000	41.70	10.7	46	4.3	AV	N

RESULT: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC12447250201AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC12447250201AP02

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

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