

#### Report No.: AGC14413230301FE05 Page 68 of 87

EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**



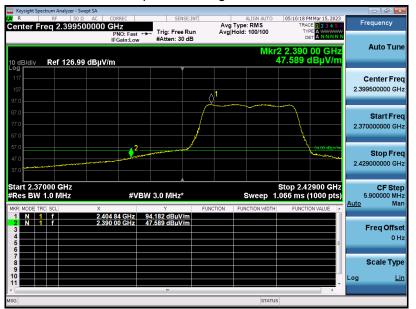
#### Report No.: AGC14413230301FE05 Page 69 of 87

EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**



#### Report No.: AGC14413230301FE05 Page 70 of 87

EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**



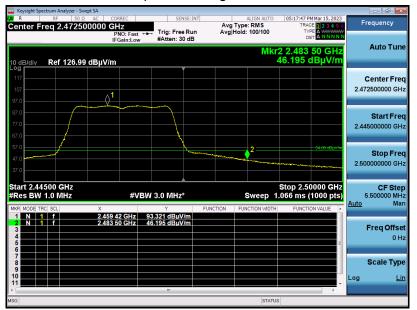
#### Report No.: AGC14413230301FE05 Page 71 of 87

EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**



#### Report No.: AGC14413230301FE05 Page 72 of 87

EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



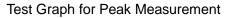
Test Graph for Average Measurement



# **RESULT: PASS**

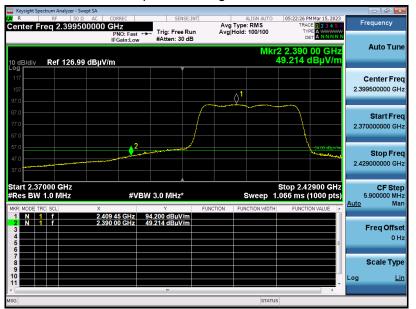


EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal





Test Graph for Average Measurement



# **RESULT: PASS**



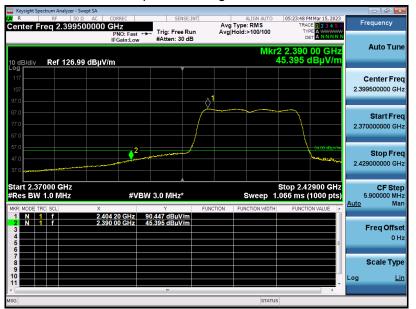
#### Report No.: AGC14413230301FE05 Page 74 of 87

EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**



EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Horizontal



Test Graph for Average Measurement



# **RESULT: PASS**



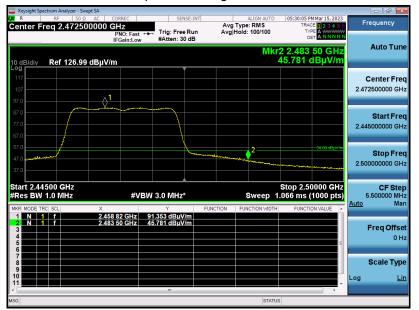
#### Report No.: AGC14413230301FE05 Page 76 of 87

EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



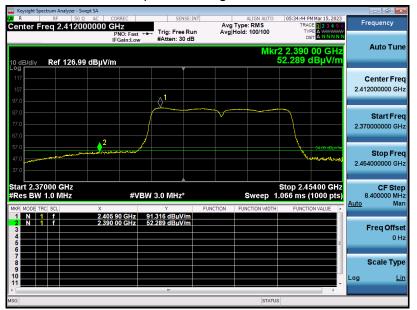
# **RESULT: PASS**



EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Horizontal



Test Graph for Average Measurement



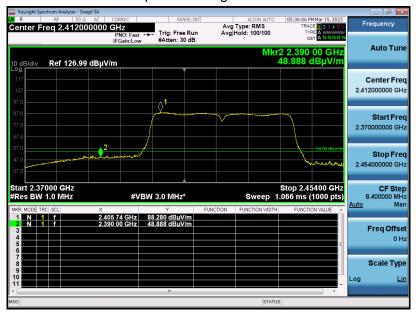
# **RESULT: PASS**



EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Vertical



Test Graph for Average Measurement



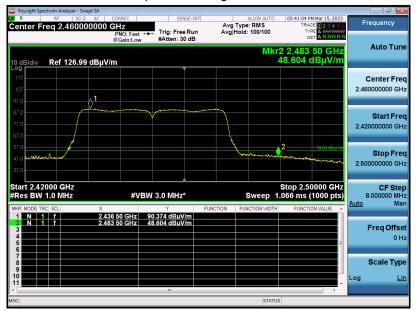
# **RESULT: PASS**



EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Horizontal



Test Graph for Average Measurement



# **RESULT: PASS**



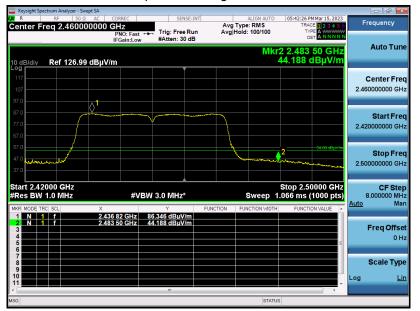
#### Report No.: AGC14413230301FE05 Page 80 of 87

EUT	Internet Radio	Model Name	NR400
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**



# **12. LINE CONDUCTED EMISSION TEST**

# 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

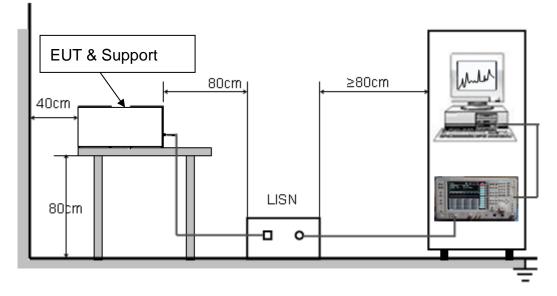
Frequency	Maximum RF Line Voltage				
Frequency	Q.P (dBµV)	Average (dBµV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

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





# 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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.

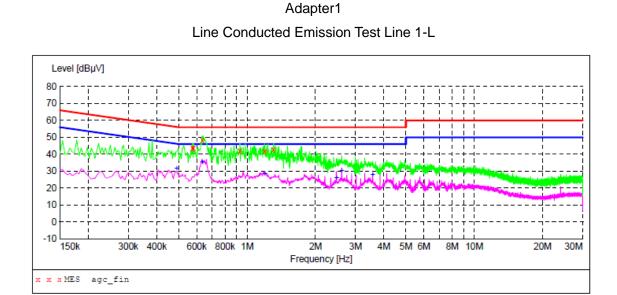
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

# 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.
- 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.



### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



### MEASUREMENT RESULT: "agc\_fin"

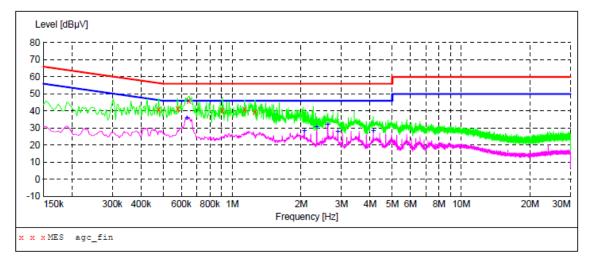
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.574000	43.70	6.2	56	12.3	QP	L1
0.582000	43.70	6.2	56	12.3		L1
0.634000	48.50	6.3	56	7.5		L1
0.930000	41.80	6.3	56	14.2	QP	L1
1.194000	41.60	6.3	56	14.4		L1
1.306000	42.50	6.3	56	13.5		L1

### MEASUREMENT RESULT: "agc\_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.490000 0.634000 1.198000 2.474000 2.610000 3.570000	31.40 35.30 28.30 25.80 30.30 28.00	6.2 6.3 6.4 6.4 6.4	46 46 46 46 46	14.8 10.7 17.7 20.2 15.7 18.0	AV AV AV AV AV	L1 L1 L1 L1 L1 L1







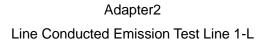
### MEASUREMENT RESULT: "agc fin"

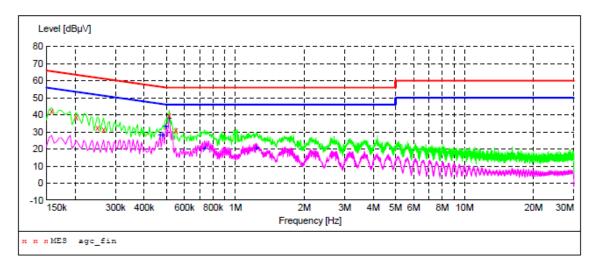
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.478000	40.90	6.2	56	15.5	QP	N
0.578000	41.40	6.2	56	14.6	QP	N
0.646000	46.10	6.3	56	9.9	QP	N
0.906000	40.60	6.3	56	15.4	QP	N
1.134000	41.00	6.3	56	15.0	QP	Ν
1.258000	39.60	6.3	56	16.4	QP	Ν

### MEASUREMENT RESULT: "agc\_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.634000 2.066000 2.342000 2.618000 2.894000 4.134000	35.80 28.30 30.60 31.90 27.80 28.30	6.3 6.4 6.4 6.4 6.4	46 46 46 46 46	10.2 17.7 15.4 14.1 18.2 17.7	AV	N N N N N







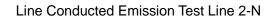
#### MEASUREMENT RESULT: "agc\_fin"

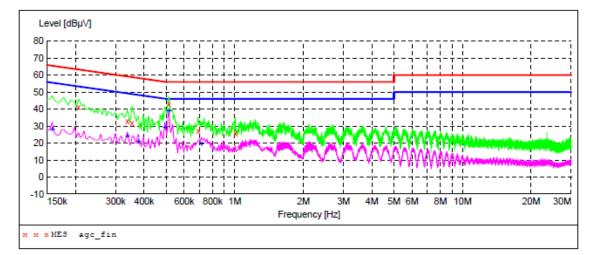
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.158000 0.202000 0.250000 0.266000 0.514000 0.550000	42.10 38.40 32.60 31.30 39.80 31.00	6.2 6.2 6.2 6.2 6.2 6.2	66 64 61 56 56	23.5 25.1 29.2 29.9 16.2 25.0	QP QP	L1 L1 L1 L1 L1 L1

### MEASUREMENT RESULT: "agc\_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.470000 0.482000 0.498000 0.514000 0.734000 1.234000	28.00 28.10 33.30 38.20 20.70 20.60	6.2 6.2 6.2 6.3 6.3	47 46 46 46 46 46	18.5 18.2 12.7 7.8 25.3 25.4		L1 L1 L1 L1 L1 L1







MEASUREMENT RESULT: "agc fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.206000	40.90	6.2	63	22.5	QP	N
0.338000	32.70	6.2	59	26.6	QP	N
0.354000	32.10	6.2	59	26.8	QP	N
0.514000	43.20	6.2	56	12.8	QP	N
0.690000	27.00	6.3	56	29.0	QP	N
1.006000	25.90	6.3	56	30.1	QP	Ν

#### MEASUREMENT RESULT: "agc\_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.158000	28.20	6.2	56	27.4	AV	N
0.338000	24.00	6.2	49	25.3		N
0.378000 0.494000	21.00 29.50	6.2 6.2	48 46	27.3		N N
0.514000	38.90	6.2	46	7.1	AV	N
0.714000	19.60	6.3	46	26.4	AV	N

#### **RESULT: PASS**



Report No.: AGC14413230301FE05 Page 87 of 87

# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC14413230301AP01 APPENDIX B: PHOTOGRAPHS OF EUT Refer to the Report No.: AGC14413230301AP02

----END OF REPORT----



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