

**Hangzhou Kitchen Idea Technology Co., Ltd**

# **RF TEST REPORT**

**Report Type:**

FCC Part 15.247 RF report

**Model:**

K3113, K3118

**REPORT NUMBER:**

230600955HAN-001

**ISSUE DATE:**

November 10, 2023

**DOCUMENT CONTROL NUMBER:**

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**TEST REPORT**

Report no. 230600955HAN-001

**Applicant:** Hangzhou Kitchen Idea Technology Co., Ltd  
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**Manufacturer:** Same As Applicant

**Factory:** Shaoxing Kitchen Idea Electrical Appliances Manufacturing Co., Ltd.  
West of 2nd Floor, South of Qisheng Road, Paojiang Industrial Zone,  
Shaoxing City, Zhejiang Province, China

**PRODUCT NAME:** Cooking food processor

**TYPE/MODEL:** K3113, K3118

**FCC ID:** 2A2KP-K3118

**IC:** 30295-K3118

**SUMMARY:**

The equipment complies with the requirements according to the following standard(s) or Specification:

**47CFR Part 15 (2020): Radio Frequency Devices (Subpart C)**

**ANSI C63.10 (2013): American National Standard of Procedures for Compliance Testing of  
Unlicensed Wireless Devices**

**RSS-247 Issue 3 (August 2023): Digital Transmission Systems (DTSs), Frequency Hopping  
Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices**

**RSS-Gen Issue 5 (February 2021) Amendment 2: General Requirements for Compliance of  
Radio Apparatus**

**PREPARED BY:****REVIEWED BY:**

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**TEST REPORT****Revision History**

Report No.	Version	Description	Issued Date
230600955HAN-001	Rev. 01	Initial issue of report	November 10, 2023

**TEST REPORT****Measurement result summary**

TEST ITEM	FCC REFERENCE	IC REFERENCE	RESULT
Minimum 6dB Bandwidth	15.247(a)(2)	RSS-247 Issue 3 Clause 5.2	Pass
Maximum conducted output power and e.i.r.p.	15.247(b)(3)	RSS-247 Issue 3 Clause 5.4	Pass
Power spectrum density	15.247(e)	RSS-247 Issue 3 Clause 5.2	Pass
Emission outside the frequency band	15.247(d)	RSS-247 Issue 3 Clause 5.5	Pass
Radiated Emissions in restricted frequency bands	15.247(d), 15.205&15.209	RSS-Gen Issue 5 Clause 8.9&8.10	Pass
Power line conducted emission	15.207(a)	RSS-Gen Issue 5 Clause 8.8	Pass
Occupied bandwidth	-	RSS-Gen Issue 5 Clause 6.6	Tested
Antenna requirement	15.203	-	Pass

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3. Additions, Deviations and Exclusions from Standards: None.

**TEST REPORT****1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

Product name:	Cooking food processor
Type/Model/PMN/HVIN:	K3113, K3118
Description of EUT:	<p>The products covered by this report are portable Cooking food processor, which are intended for household and indoor use only and adopt thermal cut out, thermal link, fuse and NTC to safeguard.</p> <p>All models use same motors and have similar appearance.</p> <p>K3118 use 3L Capacity Cup, while K3113 use 2L Capacity Cup.</p> <p>All models use the same WIFI RF module.</p> <p>Therefore, we selected the K3113 to do all tests,</p> <p>The worst testing data listed in the report as representative.</p>
Rating:	110-120V~ or 120V~, 60Hz, Motor: 700W, Heating: 900W
Category of EUT:	Class B
Brand name:	/
EUT type:	<input checked="" type="checkbox"/> Tabletop <input type="checkbox"/> Floor standing
Software Version:	/
Sample Identification No.:	1230103-19-001
Sample received date:	September 10, 2023
Date of test:	September 15-October 15, 2023

**TEST REPORT****1.2 Technical Specification**

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11n(HT40)
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n(HT20): OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n(HT40): OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Operating Frequency:	2412MHz to 2462MHz for IEEE 802.11b/g/n(HT20) 2422MHz to 2452MHz for IEEE 802.11n(HT40)
Channel Number:	11 Channels for 802.11b, 802.11g and 802.11n(HT20) 7 Channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna:	PCB Antenna, 2.24dBi Gain

**TEST REPORT****1.3 Antenna information**

Mode	Tx/Rx Function	Beamforming function	CDD function	Directional gain (dBi)
802.11b	1Tx/1Rx	NO	NO	-
802.11g	1Tx/1Rx	NO	NO	-
802.11n(HT20)	1Tx/1Rx	NO	NO	-
802.11n(HT40)	1Tx/1Rx	NO	NO	-

**TEST REPORT****1.4 Description of Test Facility**

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier: CN0014
	VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

**TEST REPORT**

## 2 TEST SPECIFICATIONS

### 2.1 Standards or specification

47CFR Part 15 (2020)  
 ANSI C63.10 (2013)  
 KDB 558074 (v05r02)  
 RSS-247 Issue 3 (August 2023)  
 RSS-Gen Issue 5 (February 2021) Amendment 2

### 2.2 Mode of operation during the test

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

Software name	Manufacturer	Version	Supplied by
WLAN Test	-	-	Client

The lowest, middle and highest channel were tested as representatives.

Frequency Band (MHz)	Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
2400-2483.5	802.11b	2412	2437	2462
	802.11g	2412	2437	2462
	802.11n(HT20)	2412	2437	2462
	802.11n(HT40)	2422	2437	2452

#### Data rate and Power setting:

The pre-scan for the conducted power with all rates in each modulation and bands was used, and the worst case was found and used in all test cases. After this pre-scan, we choose the following table of the data rates as the worst case.

Frequency Band (MHz)	Mode	Worst case data rate	Power Setting
2400-2483.5	802.11b	1Mbps	Default
	802.11g	6Mbps	Default
	802.11n(HT20)	MCS0	Default
	802.11n(HT40)	MCS0	Default

The EUT will use two types of antennas, and there have the following test mode:

Radiated test mode:

Mode 1: EUT transmitted signal with internal antenna.

Conducted test mode:

Mode 2: EUT transmitted signal from PCBA RF port connected to SPA directly.

We have verified all test modes, and list all the results in this report.

**TEST REPORT****2.3 Test software list**

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

**2.4 Test peripherals list**

Item No.	Name	Brand and Model	Description
None	None	None	None

**2.5 Test environment condition:**

Test items	Temperature	Humidity
Minimum 6dB Bandwidth		
Maximum conducted output power and e.i.r.p.		
Power spectrum density	20°C	49%RH
Emission outside the frequency band		
Occupied bandwidth		
Radiated Emissions in restricted frequency bands	22°C	51%RH
Power line conducted emission	21°C	52%RH

**TEST REPORT**
**2.6 Instrument list**

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESR7	EC 6194	2025-02-27
<input checked="" type="checkbox"/>	A.M.N.	R&S	ESH2-Z5	EC 3119	2024-11-19
<input type="checkbox"/>	A.M.N.	R&S	ENV4200	EC 3558	2024-06-05
<input checked="" type="checkbox"/>	Attenuator	Huaxiang	TS5-10dB-6G-B	21062303	2024-12-07
<input checked="" type="checkbox"/>	Shielded room	Zhongyu	-	EC 2838	2025-01-11
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESIB 26	EC 3045	2024-08-22
<input checked="" type="checkbox"/>	Test Receiver	Keysight	N9030A	EC 5338	2025-03-07
<input checked="" type="checkbox"/>	Bilog Antenna	TESEQ	CBL 6112D	EC 4206	2024-09-12
<input checked="" type="checkbox"/>	Horn antenna	R&S	HF 906	EC 3049	2024-01-16
<input checked="" type="checkbox"/>	Horn antenna	ETS	3117	EC 4792-1	2024-09-15
<input checked="" type="checkbox"/>	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2026-09-12
<input checked="" type="checkbox"/>	Pre-amplifier	R&S	AFS42-00101800-25-S-42	EC 5262	2024-06-15
<input checked="" type="checkbox"/>	Semi-anechoic chamber	Albatross project	-	EC 3048	2024-07-08
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2025-03-07
<input checked="" type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030B	EC 6078	2024-06-15
<input checked="" type="checkbox"/>	Power sensor	Agilent	U2021XA	EC 5338-1	2025-03-07
<input checked="" type="checkbox"/>	Vector Signal Generator	Agilent	N5182B	EC 5175	2025-03-07
<input checked="" type="checkbox"/>	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2025-03-07
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESCI 7	EC 4501	2025-03-09
<input type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	EC5944	2025-03-07
<input type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	EC6209	2025-01-30
<input checked="" type="checkbox"/>	Signal generator	Agilent	N5182A	EC6172	2024-08-08
<input checked="" type="checkbox"/>	Signal generator	Agilent	N5181A	EC6171	2024-08-08
<input checked="" type="checkbox"/>	Climate chamber	GWS	MT3065	EC 6021	2025-03-06
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3783	2024-03-23
<input checked="" type="checkbox"/>	Pressure meter	YM3	Shanghai Mengde	EC 4620	2024-08-16

**TEST REPORT****2.7 Measurement uncertainty**

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum peak output power	
Minimum 6dB bandwidth	
Powe spectrum density	± 0.74dB
Emission outside the frequency band	
Occupied bandwidth	
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB
Power line conducted emission	± 3.19dB

**TEST REPORT****3 Minimum 6dB bandwidth**

Test result: Pass

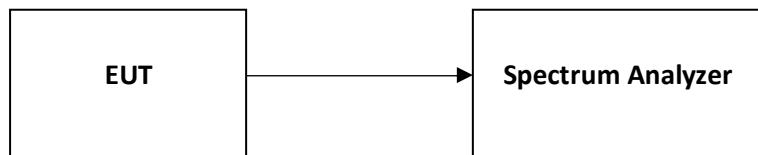
**3.1 Limit**

For systems using digital modulation techniques that may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz.

**3.2 Measurement Procedure**

The EUT was tested according to Subclause 11.8 of ANSI C63.10.

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

**3.3 Test Configuration****3.4 Test Results of Minimum 6dB bandwidth**

Please refer to Appendix A

**TEST REPORT****4 Maximum conducted output power and e.i.r.p.****Test result:** Pass**4.1 Limit**

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 W. (The e.i.r.p. shall not exceed 4 W)

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 30dBm and 30+ (6 –antenna gain-beam forming gain).

**4.2 Measurement Procedure**

The EUT was tested according to Subclause 11.9.2.2 of ANSI C63.10.

- a) Measure the duty cycle, x, of the transmitter output signal as described in Section 6.0.
- b) Set span to at least  $1.5 \times \text{OBW}$ .
- c) Set RBW = 1 % to 5 % of the OBW, not to exceed 1 MHz.
- d) Set VBW  $\geq 3 \times \text{RBW}$ .
- e) Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This gives bin-to-bin spacing  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)
- f) Sweep time = auto.
- g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- h) Do not use sweep triggering. Allow the sweep to “free run”.
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.
- j) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- k) Add  $10 \log (1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on- and off-times of the transmission). For example, add  $10 \log (1/0.25) = 6 \text{ dB}$  if the duty cycle is 25 %.

**TEST REPORT**

**4.3 Test Configuration**



**4.4 Test Results of Maximum conducted output power**

Please refer to Appendix A

**TEST REPORT**

## 5 Power spectrum density

**Test result:** Pass

### 5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

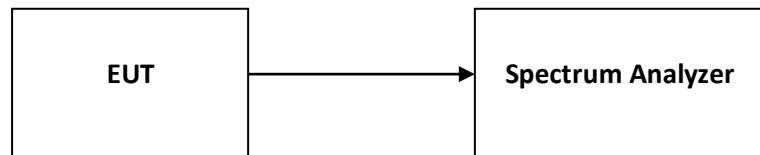
If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 8dBm/MHz and 8+ (6 –antenna gain-beam forming gain).

### 5.2 Measurement Procedure

The EUT was tested according to Subclause 11.10 of ANSI C63.10.

This procedure is applicable when the EUT cannot be configured to transmit continuously (i.e., duty cycle < 98 %), and when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than  $\pm 2\%$ ):

- a) Measure the duty cycle ( $x$ ) of the transmitter output signal as described in Section 6.0.
- b) Set instrument center frequency to DTS channel center frequency.
- c) Set span to at least  $1.5 \times \text{OBW}$ .
- d) Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- e) Set VBW  $\geq 3 \times \text{RBW}$ .
- f) Detector = power averaging (RMS) or sample detector (when RMS not available).
- g) Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span/RBW}$ .
- h) Sweep time = auto couple.
- i) Do not use sweep triggering. Allow sweep to “free run”.
- j) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- k) Use the peak marker function to determine the maximum amplitude level.
- l) Add  $10 \log (1/x)$ , where  $x$  is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.
- m) If resultant value exceeds the limit, then reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

**TEST REPORT****5.3 Test Configuration****5.4 Test Results of Power spectrum density**

Please refer to Appendix A

**TEST REPORT**

## 6 Emission outside the frequency band

**Test result:** Pass

### 6.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

### 6.2 Measurement Procedure

The EUT was tested according to Subclause 11.11 of ANSI C63.10.

#### Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to  $\geq 1.5$  times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW  $\geq 3 \times$  RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

#### Emission level measurement

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq 3 \times$  RBW.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

**TEST REPORT**

**6.3 Test Configuration**



**6.4 The results of Emission outside the frequency band**

Please refer to Appendix A

**TEST REPORT**

## 7 Radiated Emissions in restricted frequency bands

**Test result:** Pass

### 7.1 Limit

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

### 7.2 Measurement Procedure

The EUT was tested according to Subclause 11.12 of ANSI C63.10.

#### For Radiated emission below 30MHz:

- a) The EUT was placed on the top of a rotating turntable 0.8 meters above the ground at a 3 meter chamber room. The turntable was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) Both X and Y axes of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

#### NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

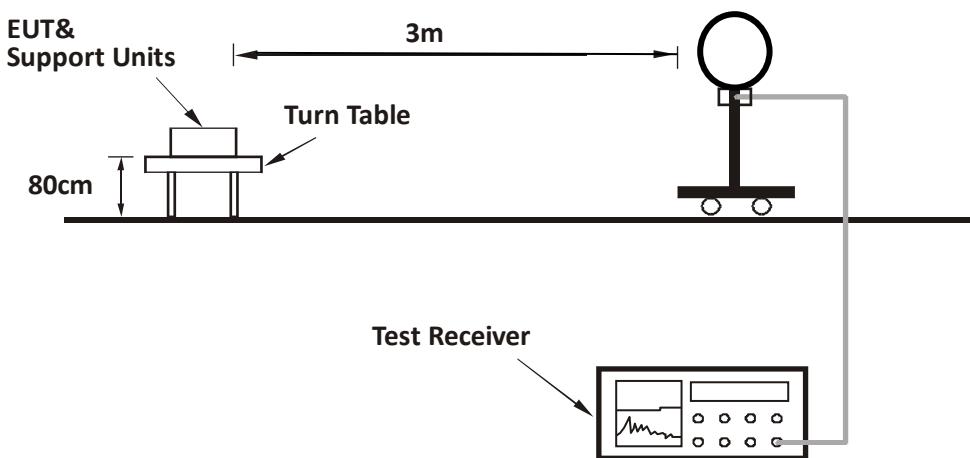
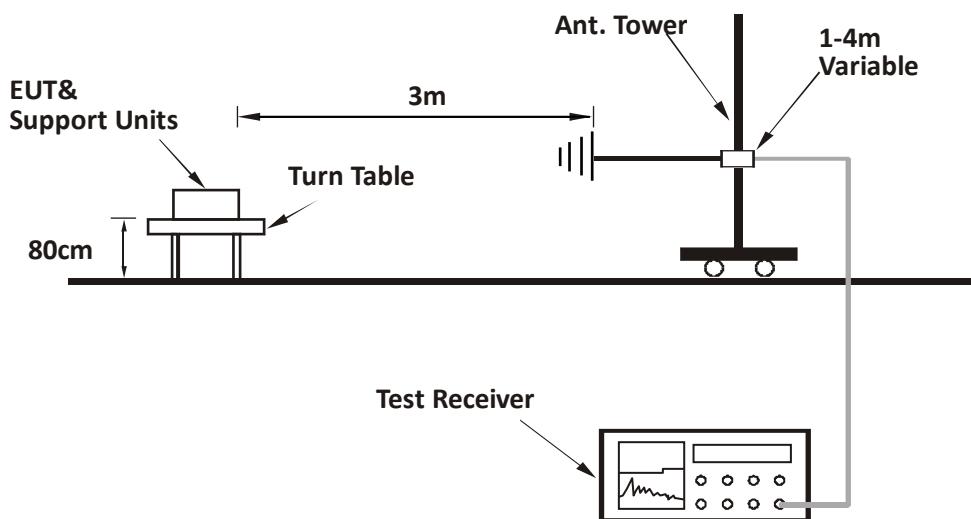
## TEST REPORT

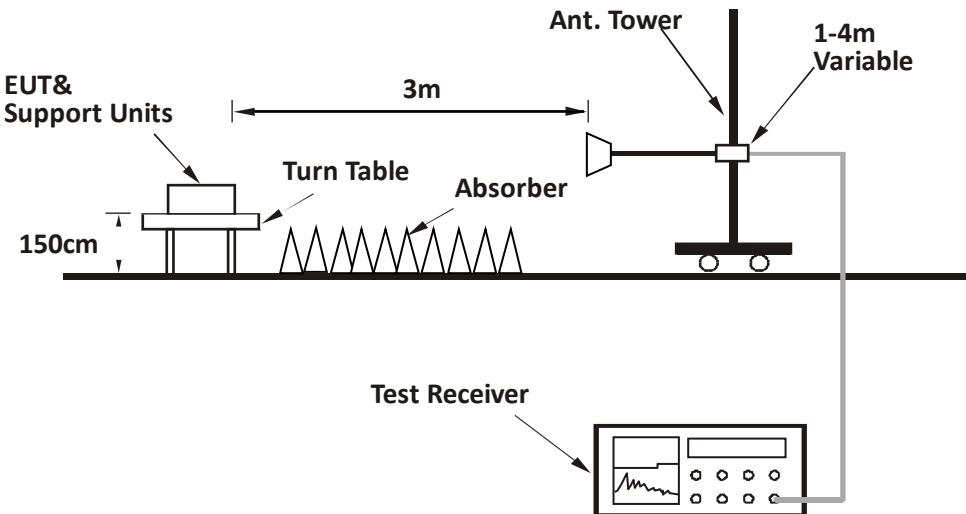
### For Radiated emission above 30MHz:

- a) The EUT was placed on the top of a rotating turntable 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The turntable was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or  $3 \times RBW$  (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

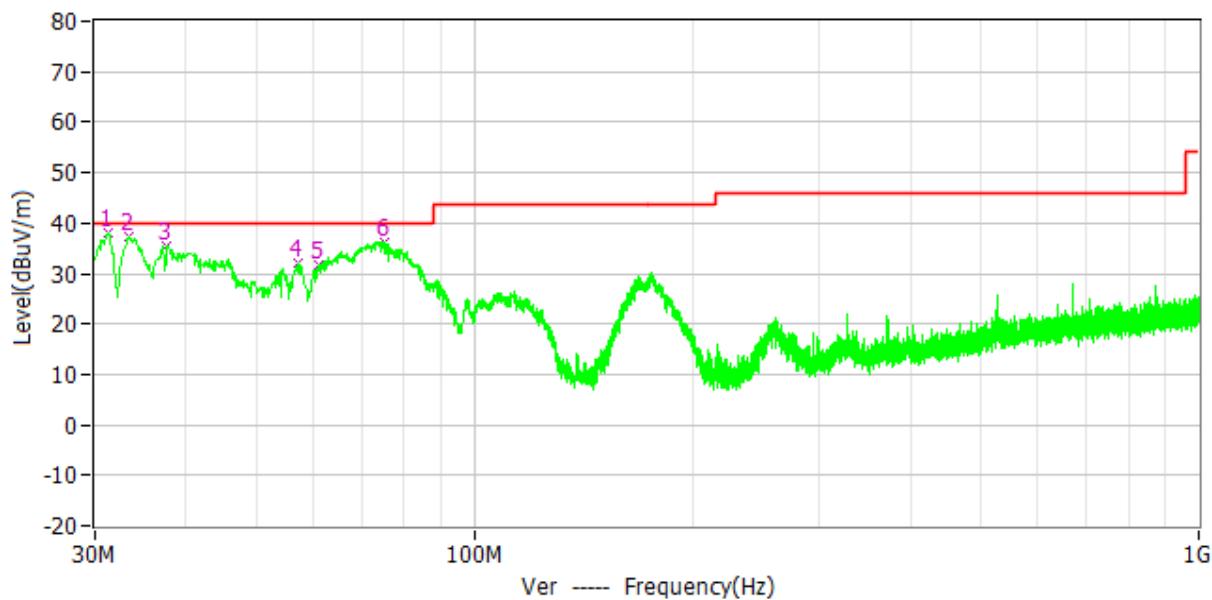
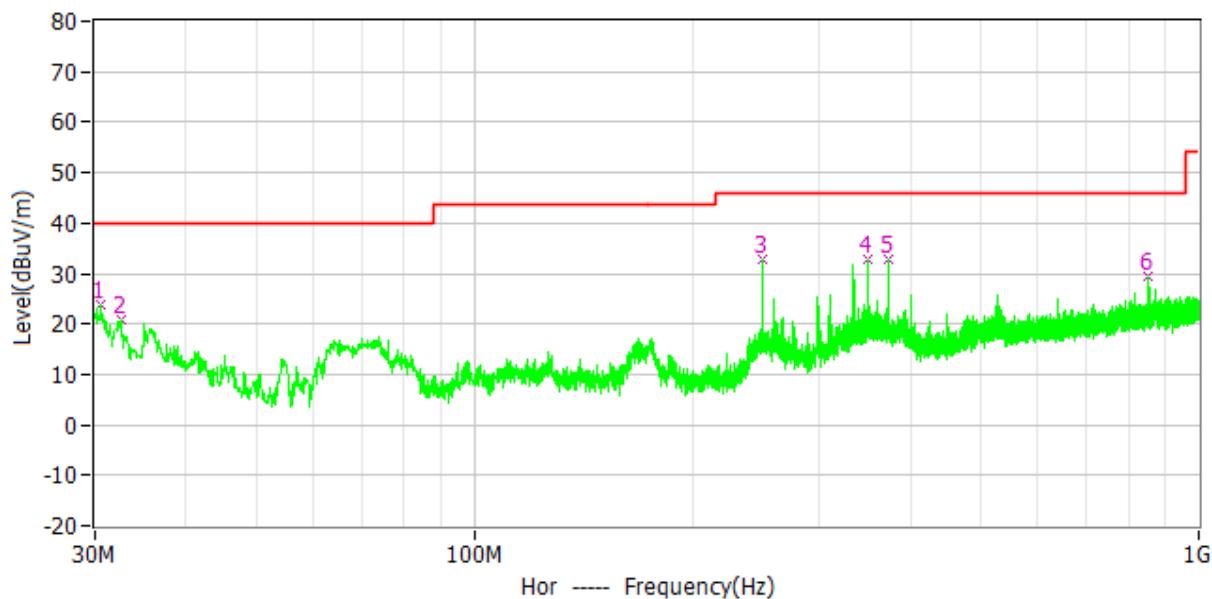
**TEST REPORT****7.3 Test Configuration****For Radiated emission below 30MHz:****For Radiated emission 30MHz to 1GHz:**

**TEST REPORT****For Radiated emission above 1GHz:**

**TEST REPORT****7.4 Test Results of Radiated Emissions**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

We test all models, and the worst waveform from 30MHz to 1000MHz is listed as below:

**30M~1GHz:**

**TEST REPORT**
**Test data:**

Antenna Polarization	Frequency (MHz)	Corrected Reading (dBuV/m)	Original Receiver Reading dBuV	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB/m)	Detector
H	30.582	23.90	2.80	21.10	40.00	16.10	PK
	32.522	20.90	1.10	19.80	40.00	19.10	PK
	249.996	32.70	18.00	14.70	46.00	13.30	PK
	350.003	32.80	15.60	17.20	46.00	13.20	PK
	372.798	32.90	15.10	17.80	46.00	13.10	PK
	852.075	29.40	5.40	24.00	46.00	16.60	PK
V	31.358	38.00	17.40	20.60	40.00	2.00	PK
	33.492	37.20	18.00	19.20	40.00	2.80	PK
	37.663	35.40	18.80	16.60	40.00	4.60	PK
	57.063	32.00	23.30	8.70	40.00	8.00	PK
	61.234	31.60	23.50	8.10	40.00	8.40	PK
	75.396	36.20	27.60	8.60	40.00	3.80	PK

**Remark:**

1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,  
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,  
Limit = 40.00dBuV/m.  
Then Correct Factor =  $30.20 + 2.00 - 32.00 = 0.20\text{dB}/\text{m}$ ;  
Corrected Reading =  $10\text{dBuV} + 0.20\text{dB}/\text{m} = 10.20\text{dBuV}/\text{m}$ ;  
Margin =  $40.00\text{dBuV}/\text{m} - 10.20\text{dBuV}/\text{m} = 29.80\text{dB}$ .

**TEST REPORT**
**Test data:**

The emission was conducted from 1GHz to 25GHz

802.11b

CH	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detector
L	H	2390.00	46.40	32.50	74.00	27.60	PK
	H	2390.00	35.70	32.50	54.00	18.30	AV
	V	2390.00	46.30	32.50	74.00	27.70	PK
	V	2390.00	35.50	32.50	54.00	18.50	AV
	H	2412.00	50.30	-22.60	Fundamental	/	PK
	H	2412.00	49.80	-22.60	Fundamental	/	AV
	V	2412.00	50.30	-22.60	Fundamental	/	PK
	V	2412.00	49.80	-22.60	Fundamental	/	AV
	H	4824.00	48.60	-14.10	74.00	25.40	PK
	H	4824.00	34.70	-14.10	54.00	19.30	AV
	V	4824.00	58.60	-14.10	74.00	15.40	PK
	V	4824.00	47.50	-14.10	54.00	6.50	AV
M	H	2437.00	50.40	-22.50	Fundamental	/	PK
	H	2437.00	50.00	-22.50	Fundamental	/	AV
	V	2437.00	50.30	-22.50	Fundamental	/	PK
	V	2437.00	50.00	-22.50	Fundamental	/	AV
	H	4874.00	58.80	-14.00	74.00	15.20	PK
	H	4874.00	48.60	-14.00	54.00	5.40	AV
	V	4874.00	50.60	-14.00	74.00	23.40	PK
	V	4874.00	37.10	-14.00	54.00	16.90	AV
H	H	2462.00	50.50	-22.20	Fundamental	/	PK
	H	2462.00	50.00	-22.20	Fundamental	/	AV
	V	2462.00	50.50	-22.20	Fundamental	/	PK
	V	2462.00	50.00	-22.20	Fundamental	/	AV
	H	2483.50	46.30	32.90	74.00	27.70	PK

**TEST REPORT**

	H	2483.50	35.90	32.90	54.00	18.10	AV
	V	2483.50	46.30	32.90	74.00	27.70	PK
	V	2483.50	35.90	32.90	54.00	18.10	AV
	H	4924.00	58.90	-13.80	74.00	15.10	PK
	H	4924.00	47.10	-13.80	54.00	6.90	AV
	V	4924.00	58.00	-13.80	74.00	16.00	PK
	V	4924.00	43.40	-13.80	54.00	10.60	AV

**TEST REPORT**

802.11g

CH	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detector
L	H	2390.00	46.40	32.50	74.00	27.60	PK
	H	2390.00	35.50	32.50	54.00	18.50	AV
	V	2390.00	46.30	32.50	74.00	27.70	PK
	V	2390.00	35.20	32.50	54.00	18.80	AV
	H	2412.00	50.30	-22.60	Fundamental	/	PK
	H	2412.00	49.80	-22.60	Fundamental	/	AV
	V	2412.00	50.30	-22.60	Fundamental	/	PK
	V	2412.00	49.80	-22.60	Fundamental	/	AV
	H	4824.00	56.50	-14.10	74.00	17.50	PK
	H	4824.00	46.10	-14.10	54.00	7.90	AV
	V	4824.00	54.60	-14.10	74.00	19.40	PK
	V	4824.00	43.10	-14.10	54.00	10.90	AV
M	H	2437.00	50.40	-22.50	Fundamental	/	PK
	H	2437.00	49.90	-22.50	Fundamental	/	AV
	V	2437.00	50.40	-22.50	Fundamental	/	PK
	V	2437.00	49.90	-22.50	Fundamental	/	AV
	H	4874.00	48.20	-14.00	74.00	25.80	PK
	H	4874.00	35.20	-14.00	54.00	18.80	AV
	V	4874.00	57.10	-14.00	74.00	16.90	PK
	V	4874.00	46.40	-14.00	54.00	7.60	AV
H	H	2462.00	50.50	-22.20	Fundamental	/	PK
	H	2462.00	50.00	-22.20	Fundamental	/	AV
	V	2462.00	50.50	-22.20	Fundamental	/	PK
	V	2462.00	50.00	-22.20	Fundamental	/	AV
	H	2483.50	47.30	32.90	74.00	26.70	PK
	H	2483.50	36.40	32.90	54.00	17.60	AV
	V	2483.50	47.10	32.90	74.00	26.90	PK

**TEST REPORT**

	V	2483.50	36.20	32.90	54.00	17.80	AV
	H	4924.00	46.30	-13.80	74.00	27.70	PK
	H	4924.00	35.30	-13.80	54.00	18.70	AV
	V	4924.00	47.80	-13.80	74.00	26.20	PK
	V	4924.00	37.60	-13.80	54.00	16.40	AV

**TEST REPORT**

802.11n (HT20)

CH	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detector
L	H	2390.00	46.80	32.50	74.00	27.20	PK
	H	2390.00	35.70	32.50	54.00	18.30	AV
	V	2390.00	47.00	32.50	74.00	27.00	PK
	V	2390.00	35.80	32.50	54.00	18.20	AV
	H	2412.00	50.30	-22.60	Fundamental	/	PK
	H	2412.00	49.80	-22.60	Fundamental	/	AV
	V	2412.00	50.30	-22.60	Fundamental	/	PK
	V	2412.00	49.80	-22.60	Fundamental	/	AV
	H	4824.00	56.60	-14.10	74.00	17.40	PK
	H	4824.00	46.20	-14.10	54.00	7.80	AV
	V	4824.00	52.50	-14.10	74.00	21.50	PK
	V	4824.00	40.20	-14.10	54.00	13.80	AV
M	H	2437.00	50.50	-22.50	Fundamental	/	PK
	H	2437.00	49.80	-22.50	Fundamental	/	AV
	V	2437.00	50.40	-22.50	Fundamental	/	PK
	V	2437.00	49.90	-22.50	Fundamental	/	AV
	H	4874.00	56.70	-14.00	74.00	17.30	PK
	H	4874.00	45.00	-14.00	54.00	9.00	AV
	V	4874.00	58.00	-14.00	74.00	16.00	PK
	V	4874.00	45.00	-14.00	54.00	9.00	AV
H	H	2462.00	50.50	-22.20	Fundamental	/	PK
	H	2462.00	49.90	-22.20	Fundamental	/	AV
	V	2462.00	50.50	-22.20	Fundamental	/	PK
	V	2462.00	50.00	-22.20	Fundamental	/	AV
	H	2483.50	52.30	32.90	74.00	21.70	PK
	H	2483.50	37.20	32.90	54.00	16.80	AV
	V	2483.50	52.10	32.90	74.00	21.90	PK

**TEST REPORT**

	V	2483.50	36.80	32.90	54.00	17.20	AV
	H	4924.00	48.60	-13.80	74.00	25.40	PK
	H	4924.00	37.50	-13.80	54.00	16.50	AV
	V	4924.00	47.80	-13.80	74.00	26.20	PK
	V	4924.00	37.60	-13.80	54.00	16.40	AV

**TEST REPORT**

802.11n (HT40)

CH	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detector
L	H	2390.00	46.60	32.50	74.00	27.40	PK
	H	2390.00	36.10	32.50	54.00	17.90	AV
	V	2390.00	46.60	32.50	74.00	27.40	PK
	V	2390.00	36.20	32.50	54.00	17.80	AV
	H	2422.00	50.40	-22.50	Fundamental	/	PK
	H	2422.00	49.90	-22.50	Fundamental	/	AV
	V	2422.00	50.30	-22.50	Fundamental	/	PK
	V	2422.00	49.70	-22.50	Fundamental	/	AV
	H	4844.00	53.20	-14.00	74.00	20.80	PK
	H	4844.00	42.80	-14.00	54.00	11.20	AV
	V	4844.00	38.50	-14.00	74.00	35.50	PK
	V	4844.00	26.90	-14.00	54.00	27.10	AV
M	H	2437.00	50.50	-22.50	Fundamental	/	PK
	H	2437.00	49.90	-22.50	Fundamental	/	AV
	V	2437.00	50.40	-22.50	Fundamental	/	PK
	V	2437.00	49.90	-22.50	Fundamental	/	AV
	H	4874.00	51.70	-14.00	74.00	22.30	PK
	H	4874.00	40.90	-14.00	54.00	13.10	AV
	V	4874.00	46.10	-14.00	74.00	27.90	PK
	V	4874.00	34.90	-14.00	54.00	19.10	AV
H	H	2452.00	50.60	-22.30	Fundamental	/	PK
	H	2452.00	50.00	-22.30	Fundamental	/	AV
	V	2452.00	50.70	-22.30	Fundamental	/	PK
	V	2452.00	50.00	-22.30	Fundamental	/	AV
	H	2483.50	47.10	32.90	74.00	26.90	PK
	H	2483.50	35.50	32.90	54.00	18.50	AV
	V	2483.50	47.30	32.90	74.00	26.70	PK

**TEST REPORT**

	V	2483.50	35.60	32.90	54.00	18.40	AV
	H	4904.00	56.80	-13.90	74.00	17.20	PK
	H	4904.00	45.30	-13.90	54.00	8.70	AV
	V	4904.00	55.20	-13.90	74.00	18.80	PK
	V	4904.00	44.50	-13.90	54.00	9.50	AV

Note: Choose the worst power to test as representative.

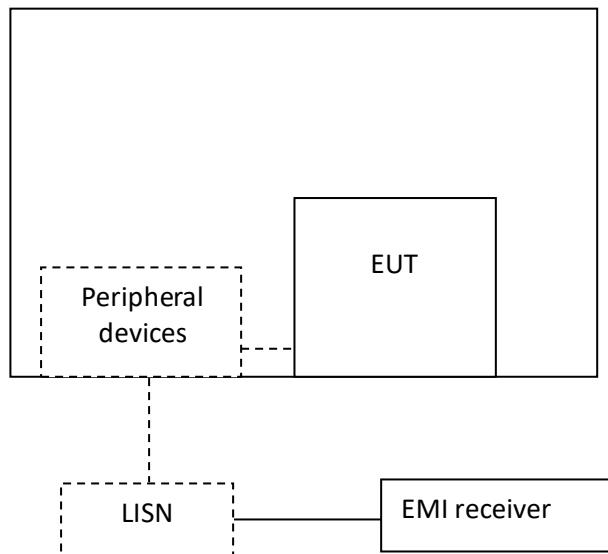
**TEST REPORT****8 Power line conducted emission**

Test result: Pass

**8.1 Limit**

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
0.15-0.5	66 to 56*	56 to 46 *
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency.

**8.2 Test Configuration**

**TEST REPORT****8.3 Measurement Procedure**

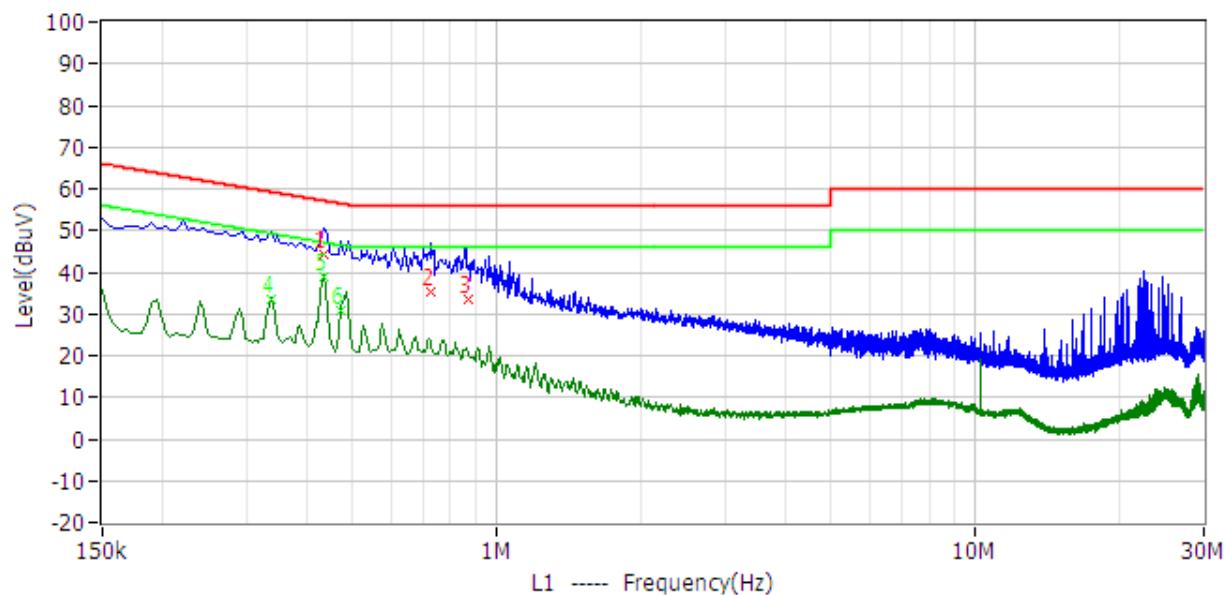
Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the  $50\ \Omega$  LISN port (to which the EUT is connected), where permitted, terminated into a  $50\ \Omega$  measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the  $50\ \Omega$  measuring port is terminated by a measuring instrument having  $50\ \Omega$  input impedance. All other ports are terminated in  $50\ \Omega$  loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

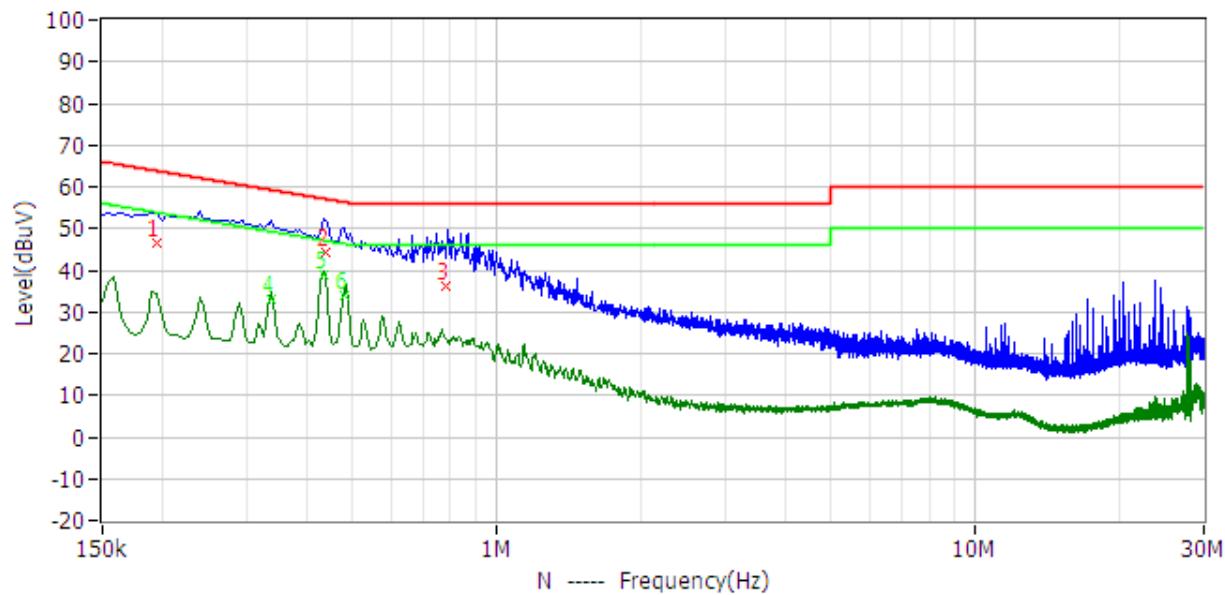
The bandwidth of the test receiver is set at 9 kHz.

**TEST REPORT****8.4 Test Results of Power line conducted emission****Test Curve:**

L Line



N Line



**TEST REPORT****Test Data:**

Frequency	Limit dB $\mu$ V	Level dB $\mu$ V	Delta dB	Reading dB $\mu$ V	Factor dB	Detector	Phase
433.500kHz	57.2	44.2	13.0	33.9	10.3	QP	L1
730.500kHz	56.0	35.1	20.9	24.8	10.3	QP	L1
870.000kHz	56.0	33.7	22.3	23.4	10.3	QP	L1
339.000kHz	49.2	33.5	15.7	23.2	10.3	CAV	L1
433.500kHz	47.2	38.7	8.5	28.4	10.3	CAV	L1
474.000kHz	46.4	30.8	15.6	20.5	10.3	CAV	L1
195.000kHz	63.8	46.6	17.2	36.3	10.3	QP	N
438.000kHz	57.1	44.4	12.7	34.1	10.3	QP	N
780.000kHz	56.0	36.0	20.0	25.7	10.3	QP	N
339.000kHz	49.2	33.1	16.1	22.8	10.3	CAV	N
433.500kHz	47.2	38.7	8.5	28.4	10.3	CAV	N
478.500kHz	46.4	34.1	12.3	23.8	10.3	CAV	N

*Remark: 1. Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.*

*2. Corrected Reading = Original Receiver Reading + Correct Factor*

*3. Margin = Limit - Corrected Reading*

*4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.*

**TEST REPORT**

## 9 Occupied Bandwidth

Test result: Pass

### 9.1 Limit

None

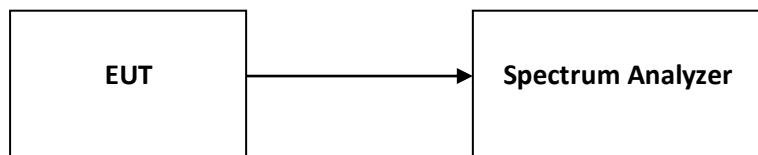
### 9.2 Measurement Procedure

The occupied bandwidth per RSS-Gen Issue 4 Clause 6.6 was measured using the Spectrum Analyzer.

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

### 9.3 Test Configuration



### 9.4 The results of Occupied Bandwidth

Please refer to Appendix A

**TEST REPORT**

## 10 Antenna requirement

**Requirement:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**Result:**

EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

**TEST REPORT****Appendix A: Test results****DTS Bandwidth**

Test Data

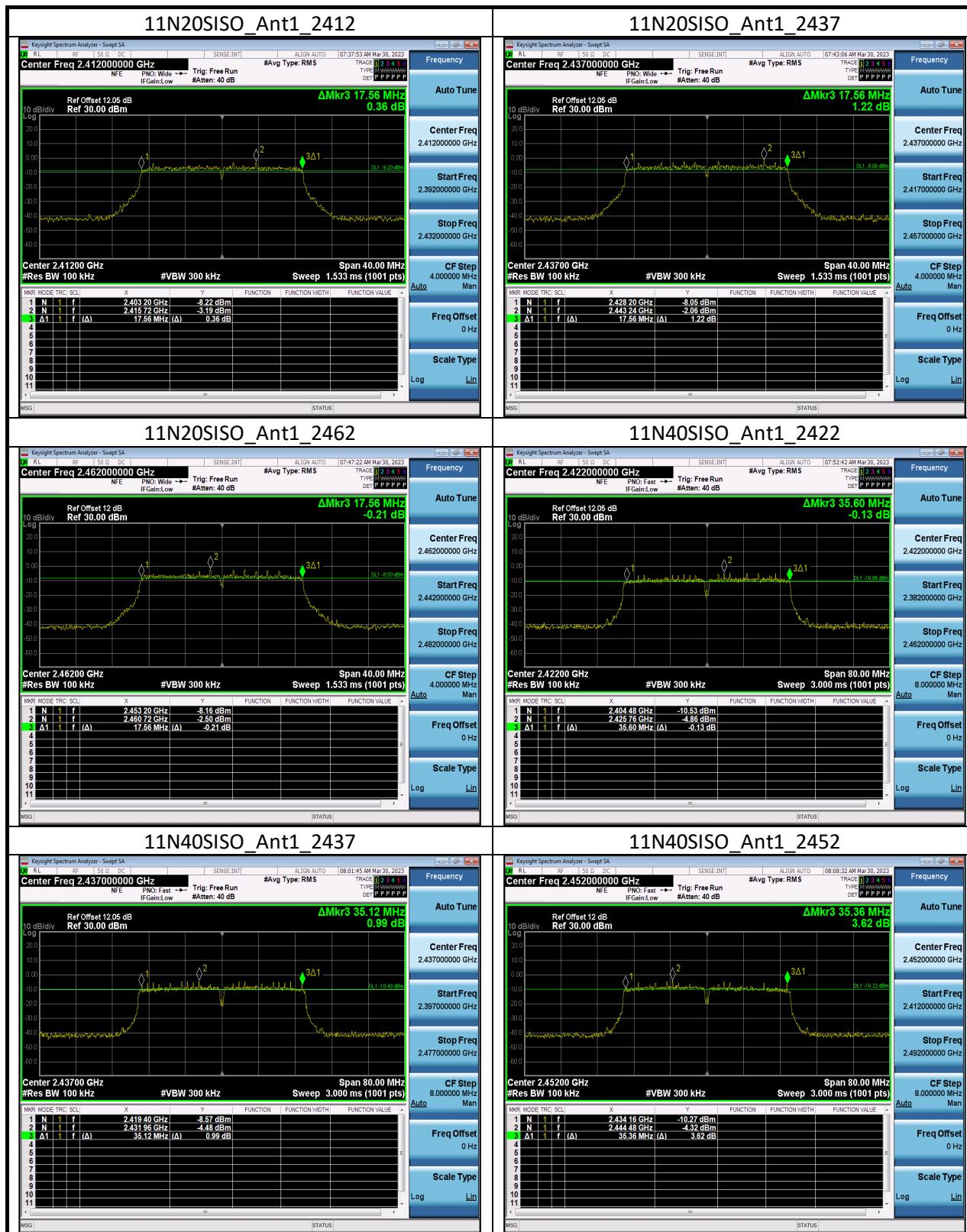
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	8.520	2432.480	2441.000	0.5	PASS
		2462	8.560	2457.960	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.480	2440.080	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	35.360	2434.160	2469.520	0.5	PASS

## TEST REPORT

## Test Plots



## TEST REPORT



**TEST REPORT****Occupied Channel Bandwidth**

## Test Data

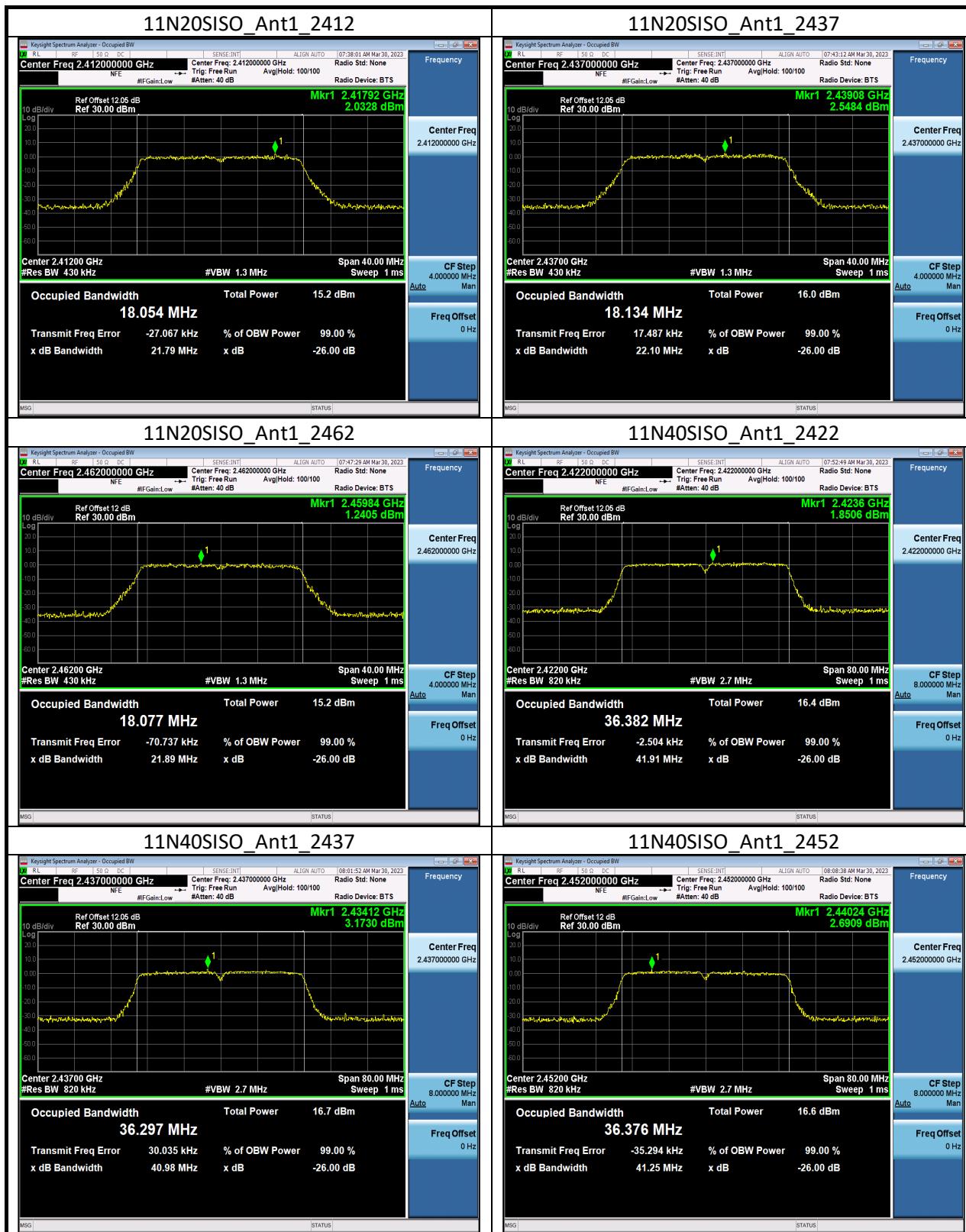
TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	13.437	2405.2693	2418.7063	---	---
		2437	13.423	2430.3193	2443.7423	---	---
		2462	13.555	2455.1300	2468.6850	---	---
11G	Ant1	2412	17.133	2403.4125	2420.5455	---	---
		2437	17.053	2428.5013	2445.5543	---	---
		2462	17.193	2453.3440	2470.5370	---	---
11N20SISO	Ant1	2412	18.054	2402.9459	2420.9999	---	---
		2437	18.134	2427.9505	2446.0845	---	---
		2462	18.077	2452.8908	2470.9678	---	---
11N40SISO	Ant1	2422	36.382	2403.8065	2440.1885	---	---
		2437	36.297	2418.8815	2455.1785	---	---
		2452	36.376	2433.7767	2470.1527	---	---

## TEST REPORT

## Test Plots

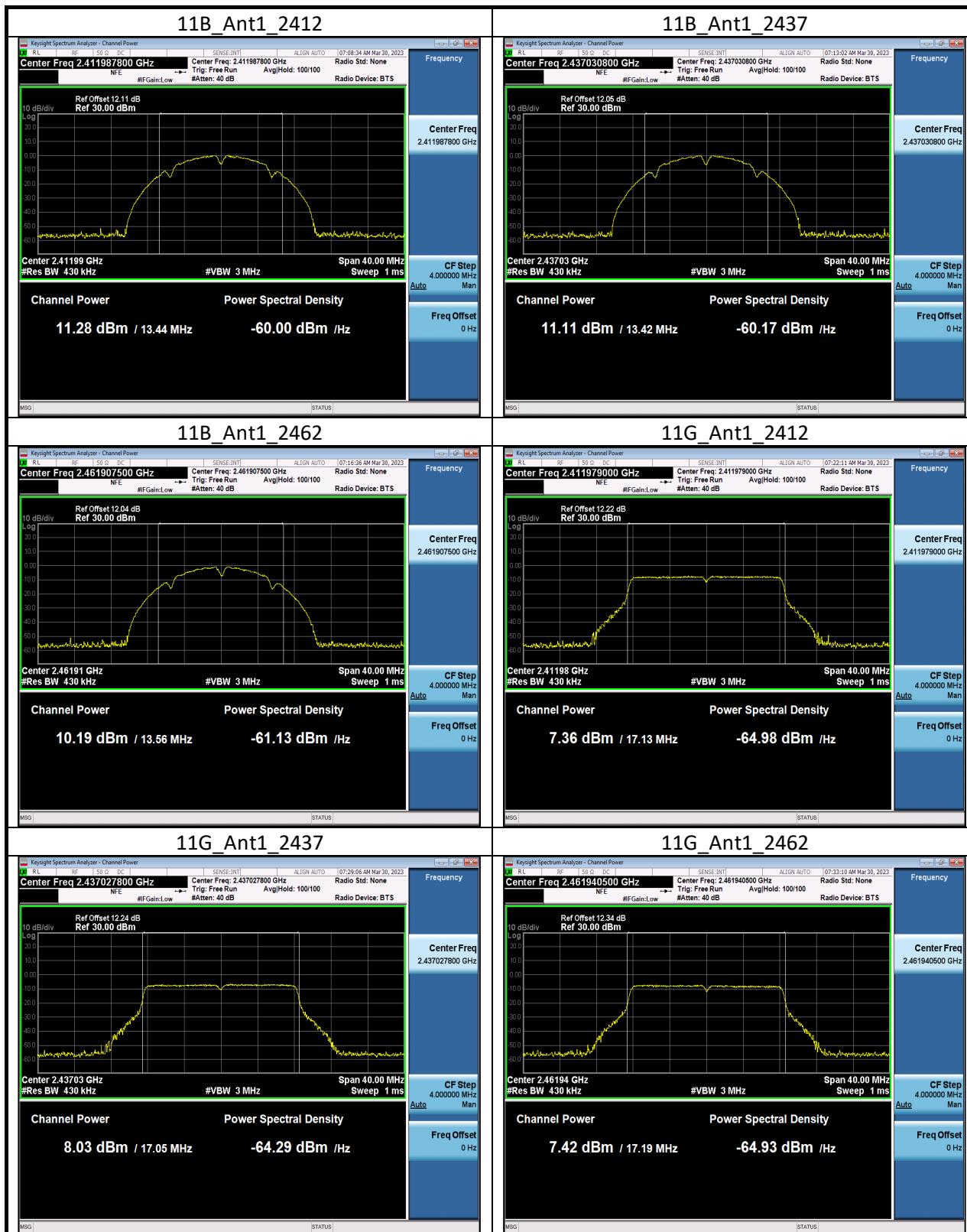


## TEST REPORT

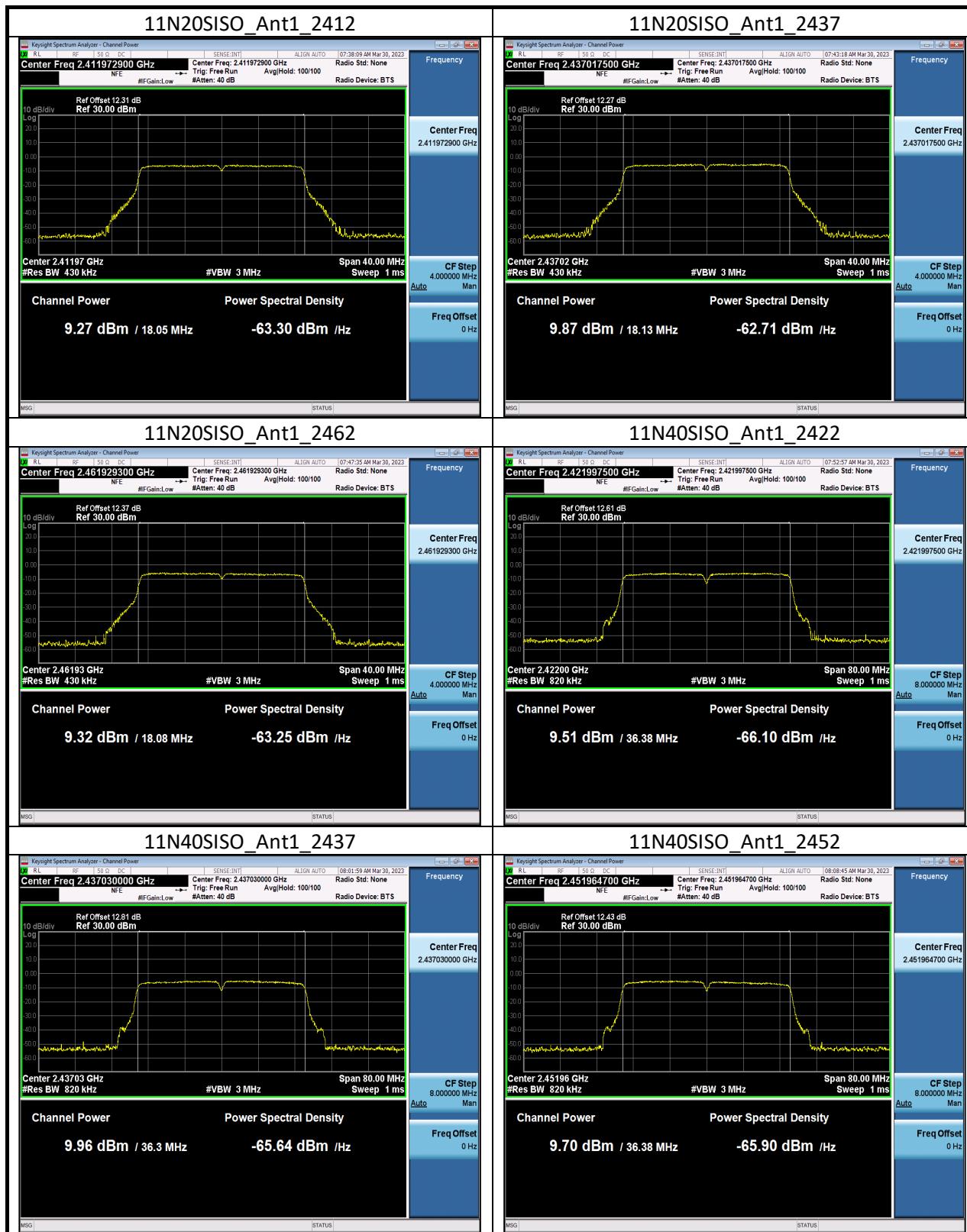


**TEST REPORT****Maximum conducted output power and e.i.r.p****Test Data**

TestMode	Antenna	Frequency [MHz]	Peak Power [dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	11.28	≤30.00	12.78	≤36.00	PASS
		2437	11.11	≤30.00	12.61	≤36.00	PASS
		2462	10.19	≤30.00	11.69	≤36.00	PASS
11G	Ant1	2412	7.36	≤30.00	8.86	≤36.00	PASS
		2437	8.03	≤30.00	9.53	≤36.00	PASS
		2462	7.42	≤30.00	8.92	≤36.00	PASS
11N20SISO	Ant1	2412	9.27	≤30.00	10.77	≤36.00	PASS
		2437	9.87	≤30.00	11.37	≤36.00	PASS
		2462	9.32	≤30.00	10.82	≤36.00	PASS
11N40SISO	Ant1	2422	9.51	≤30.00	11.01	≤36.00	PASS
		2437	9.96	≤30.00	11.46	≤36.00	PASS
		2452	9.70	≤30.00	11.20	≤36.00	PASS

**TEST REPORT**
**Test Plots**


## TEST REPORT



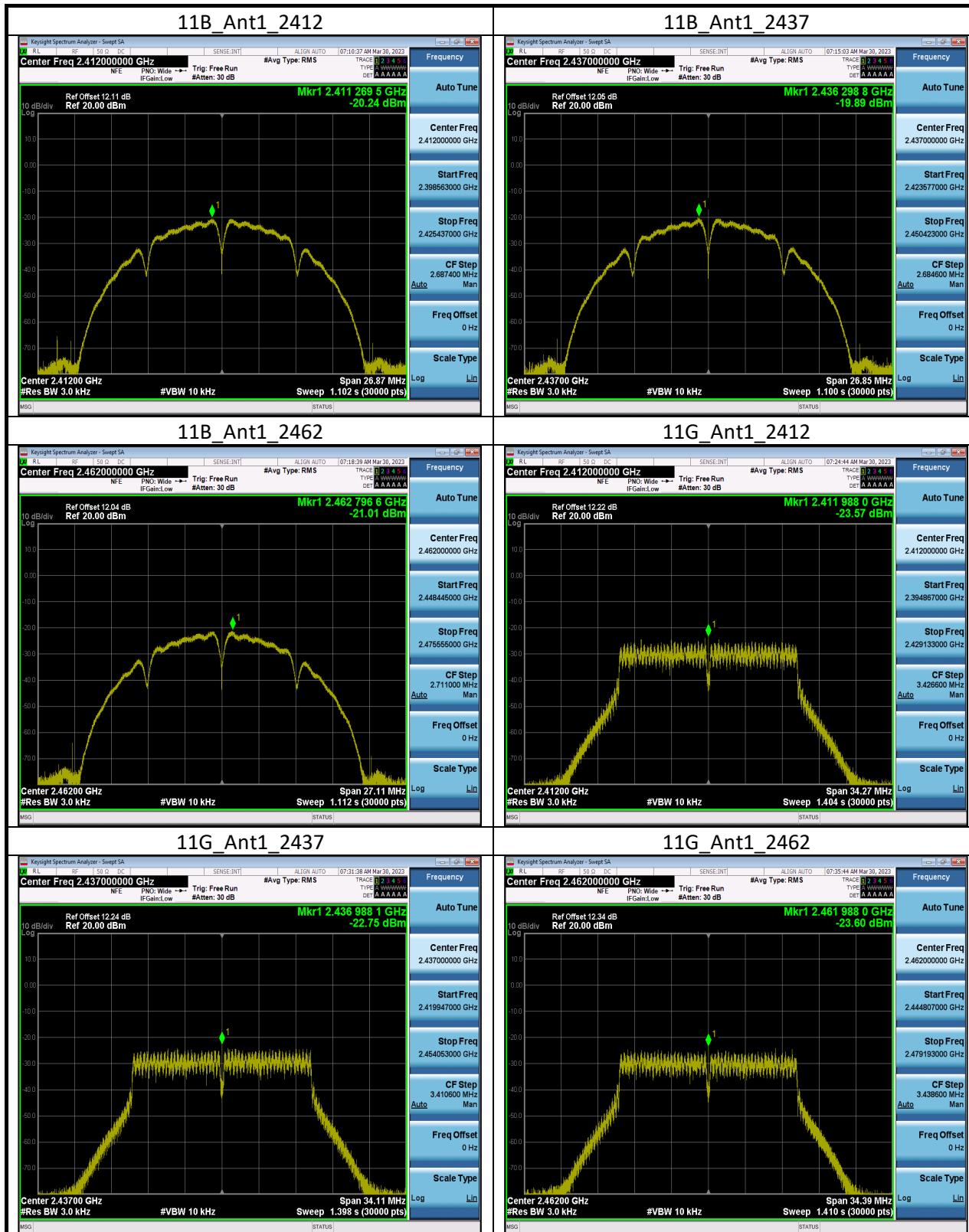
**TEST REPORT****Maximum power spectrum density**

## Test Data

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-20.24	≤8.00	PASS
		2437	-19.89	≤8.00	PASS
		2462	-21.01	≤8.00	PASS
11G	Ant1	2412	-23.57	≤8.00	PASS
		2437	-22.75	≤8.00	PASS
		2462	-23.6	≤8.00	PASS
11N20SISO	Ant1	2412	-22.52	≤8.00	PASS
		2437	-21.7	≤8.00	PASS
		2462	-22.8	≤8.00	PASS
11N40SISO	Ant1	2422	-23.39	≤8.00	PASS
		2437	-23.8	≤8.00	PASS
		2452	-23.54	≤8.00	PASS

## TEST REPORT

## Test Plots



## TEST REPORT

