

TEST REPORT

Product Name : VOC Detection Thermal Camera
Model Number : G320/PV400
FCC ID : 2AKU5ZC12A

Prepared for : Wuhan Guide Sensmart Tech Co., Ltd
Address : NO.29,Gaoxin 3rd Road,Donghu New-tech Development Zone,Wuhan City,Hubei,P.R.China

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2312060221W00501R
Date(s) of Tests : December 15 , 2023 to January 10, 2024
Date of issue : January 12, 2024

TEST RESULT CERTIFICATION

Applicant : Wuhan Guide Sensmart Tech Co., Ltd
 Address : NO.29,Gaoxin 3rd Road,Donghu New-tech Development Zone,Wuhan City,Hubei,P.R.China
 Manufacturer : Wuhan Guide Sensmart Tech Co., Ltd
 Address : NO.29,Gaoxin 3rd Road,Donghu New-tech Development Zone,Wuhan City,Hubei,P.R.China
 EUT : VOC Detection Thermal Camera
 Model Name : G320/PV400
 Trademark : N/A

Measurement Procedure Used:

| APPLICABLE STANDARDS | |
|---|-------------|
| STANDARD | TEST RESULT |
| FCC 47 CFR Part 2 , Subpart J FCC 47 CFR Part 15 , Subpart C | PASS |

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247

The test results of this report relate only to the tested sample identified in this report.

Date of Test : December 15, 2023 to January 10, 2024

Prepared by : 
 Una Yu /Editor

Reviewer : 
 Joe Xia/Supervisor

Approve & Authorized Signer : 
 Lisa Wang/Manager



Modified History

| Version | Report No. | Revision Date | Summary |
|---------|----------------------|---------------|-----------------|
| V1.0 | ENS2312060221W00501R | / | Original Report |
| | | | |
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1 EUT TECHNICAL DESCRIPTION

| Characteristics | Description |
|--|--|
| Product | VOC Detection Thermal Camera |
| Model Number | G320/PV400 |
| Sample Number | 2# |
| IEEE 802.11 WLAN Mode Supported | <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n(40MHz channel bandwidth) |
| Modulation | DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; |
| Operating Frequency Range | <input checked="" type="checkbox"/> 2412-2462MHz for 802.11b/g/n(HT20); <input checked="" type="checkbox"/> 2422-2452MHz for 802.11n(HT40); |
| Number of Channels | <input checked="" type="checkbox"/> 11 channels for 802.11b/g/n(HT20); <input checked="" type="checkbox"/> 7 Channels for 802.11n(HT40); |
| Transmit Power Max | 9.16 dBm |
| Antenna Type | Internal Antenna |
| Antenna Gain | 1.0 dBi |
| Power Supply | DC 15V from Adapter DC 14.4V from internal battery |
| Date of Received | December 14, 2023 |

Note: for more details, please refer to the user's manual of the EUT.

2 SUMMARY OF TEST RESULT

| FCC Part Clause | Test Parameter | Verdict | Remark |
|---------------------|---|---------|--------|
| 15.247(a)(2) | DTS (6dB) Bandwidth | PASS | |
| 15.247(b)(3) | Maximum Peak Conducted Output Power | PASS | |
| 15.247(e) | Maximum Power Spectral Density Level | PASS | |
| 15.247(d) | Unwanted Emission Into Non-Restricted Frequency Bands | PASS | |
| 15.247(d) 15.209 | Unwanted Emission Into Restricted Frequency Bands (conducted) | PASS | |
| 15.247(d) 15.209 | Radiated Spurious Emission | PASS | |
| 15.207 | Conducted Emission Test | PASS | |
| 15.247(b) | Antenna Application | PASS | |
| | NOTE1: N/A (Not Applicable) NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits. | | |

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AKU5ZC12A filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

3.2 MEASUREMENT EQUIPMENT USED

Conducted Emission Test Equipment

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|--------------------|-----------------|-----------|------------|-----------|---------------|
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101045 | 2023/5/13 | 1 Year |
| AMN | Schwarzbeck | NNLK 8129 | 8129203 | 2023/5/13 | 1 Year |
| 50Ω Coaxial Switch | Anritsu | MP59B | M20531 | N/A | 1 Year |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100107 | 2023/5/13 | 1 Year |
| High Voltage Probe | SCHWARZBECK | TK9422 | 9422-130 | 2023/5/10 | 1 Year |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100191 | 2023/5/10 | 1 Year |

For Spurious Emissions Test

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|-------------------|-----------------|-----------|------------|-----------|---------------|
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101414 | 2023/5/13 | 1 Year |
| Pre-Amplifier | HP | 8447F | 2944A07999 | 2023/5/13 | 1 Year |
| Bilog Antenna | Schwarzbeck | VULB9163 | 712 | 2023/7/2 | 2 Year |
| Loop Antenna | Schwarzbeck | FMZB1519 | 1519-012 | 2023/5/12 | 2 Year |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-399 | 2023/5/12 | 2 Year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1198 | 2023/6/2 | 2 Year |
| Cable | Schwarzbeck | AK9513 | ACRX1 | 2023/5/13 | 1 Year |
| Cable | Rosenberger | N/A | FP2RX2 | 2023/5/13 | 2 Year |
| Cable | Schwarzbeck | AK9513 | CRPX1 | 2023/5/13 | 2 Year |
| Cable | Schwarzbeck | AK9513 | CRRX2 | 2023/5/13 | 1 Year |

For other test items:

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------------------------------|--------------|----------------|------------|-----------|---------------|
| Signal Analyzer | Agilent | N9010A | MY53470879 | 2023/5/10 | 1Year |
| Vector Signal Generater | Agilent | N5182B | MY53050878 | 2023/5/10 | 1Year |
| Analog Signal Generator | Agilent | N5171B | MY53050553 | 2023/5/10 | 1Year |
| Power Meter | Agilent | PS-X10-100 | \ | 2023/5/13 | 1Year |
| Switchgroup | THEDA | ETF-025(VASC6) | TW5451008 | N/A | N/A |
| MIMO Matrix Switch | THEDA | 4P5TM18 | TW5451009 | N/A | N/A |
| Temperature&Humidity Chamber | ESPEC | EL-02KA | 12107166 | 2023/5/10 | 1 Year |

Remark: Each piece of equipment is scheduled for calibration once a year.

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n : MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11 b/g/n(HT20):

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 1 | 2412 | 5 | 2432 | 9 | 2452 |
| 2 | 2417 | 6 | 2437 | 10 | 2457 |
| 3 | 2422 | 7 | 2442 | 11 | 2462 |
| 4 | 2427 | 8 | 2447 | | |

Test Frequency and Channel for 802.11 b/g/n(HT20):

| Lowest Frequency | | Middle Frequency | | Highest Frequency | |
|------------------|-----------------|------------------|-----------------|-------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 1 | 2412 | 6 | 2437 | 11 | 2462 |

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

EMTEK (Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

4.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

4.3 LABORATORY ACCREDITATIONS AND LISTINGS

| Site Description | |
|------------------|---|
| EMC Lab. | <p>Accredited by CNAS The Certificate Registration Number is L2291. The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)</p> <p>Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943</p> <p>Accredited by A2LA The Certificate Number is 4321.01.</p> <p>Accredited by Industry Canada The Conformity Assessment Body Identifier is CN0008</p> |
| Name of Firm | : EMTEK (SHENZHEN) CO., LTD. |
| Site Location | : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China |

5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

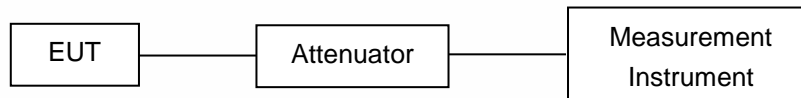
| Parameter | Uncertainty |
|--------------------------------|-------------------------|
| Radio Frequency | $\pm 1 \times 10^{-5}$ |
| Maximum Peak Output Power Test | $\pm 1.0\text{dB}$ |
| Conducted Emissions Test | $\pm 2.0\text{dB}$ |
| Radiated Emission Test | $\pm 2.0\text{dB}$ |
| Power Density | $\pm 2.0\text{dB}$ |
| Occupied Bandwidth Test | $\pm 1.0\text{dB}$ |
| Band Edge Test | $\pm 3\text{dB}$ |
| All emission, radiated | $\pm 3\text{dB}$ |
| Antenna Port Emission | $\pm 3\text{dB}$ |
| Temperature | $\pm 0.5^\circ\text{C}$ |
| Humidity | $\pm 3\%$ |

Measurement Uncertainty for a level of Confidence of 95%

6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Measurements shall be taken, using the following steps, at a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment (see RSS-Gen for applicable versions of ANSI and CISPR standards).

- (1) Line the ground plane with absorbers between the transmitter and the receive antenna to minimize reflections. The absorbers used should have a minimum-rated attenuation of 20 dB through the measurement frequency range of interest. The absorbers shall be positioned to replicate the layout used when compliance with the applicable acceptability criterion was achieved, as set forth in the aforementioned standards on site validation.
- (2) Set the height of the receive antenna to 1.5 m. The receive antenna must be one that was designed and fabricated to operate over the entire frequency range of interest, for example, an appropriate standard gain horn.
- (3) The distance between the receive antenna and the radiating source shall be sufficient in order to ensure far-field conditions.
- (4) Mount the transmitter at a height of 1.5 m.
- (5) Configure the device under test (DUT) to produce the maximum power spectral density as measured while assessing compliance with Section 6.2.2 (i.e. channel frequency, modulation type and data rate). If the DUT is equipped with a detachable antenna and the antenna is intended for remote installation (i.e.

tower-mounted), the DUT may be substituted with a suitable signal generator. The level and frequency settings on the generator shall be set so as to reproduce the maximum power spectral density, measured within a 1 MHz bandwidth, obtained while assessing compliance to Section 6.2.2.

(6) Position the transmitter or the radiating antenna so that elevation pattern measurements can be taken.

(7) Find the 0° reference point in the horizontal plane.

(8) Care should be taken when positioning the receive antenna to avoid cross-polarization. Antennas of known mounting polarization should be assessed with the receive antenna oriented in the same polarity. If the polarization of the transmit antenna is unknown or the transmit antenna can be mounted in either polarization, e.i.r.p. measurements should be performed to find which mounting polarity provides the highest e.i.r.p. value. Testing shall be carried out with the receive antenna and the DUT mounted in each polarity.

(9) The emission shall be centred on the display of the spectrum analyzer with the following settings:

i. If the power spectral density of the DUT was assessed with a peak detector and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

ii. If the power spectral density of the DUT was assessed using a sample detector with power averaging and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a sample detector, configured to produce 100 power averages and set with a resolution bandwidth, as well as a video bandwidth of 1 MHz.

iii. If the antenna can be detached from the DUT, a continuous wave (CW) signal equal to that of the power spectral density measurement may be used, the spectrum analyzer shall be set to peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

(10) Rotate the turntable 360° recording the field strength at each step. Throughout the main beam of the antenna, the step size shall be kept to a maximum of 1°.

Once outside the main beam of the antenna, the maximum step size shall be as follows, when compared to the requirements of Section 6.2.2:

i. Between 0° and 8°, maximum step size of 2°;

ii. Between 8° and 40°, maximum step size of 4°;

iii. Between 40° and 45°, maximum step size of 1°;

iv. Between 45° and 90°, maximum step size of 5°.

Once the mask reaches 90°, the mask will be inverted and the step size will follow in the same manner as above.

For the purpose of this procedure, the main beam of the antenna is defined as the 3 dB beamwidth.

(11) Convert the measured field strength values in terms of e.i.r.p. density (dBW/1 MHz) using the following equation:

$$\text{e.i.r.p. density (dBW/MHz)} = 10 \log((E \cdot r)^2 / 30)$$

E = field strength in V/m

r = measurement distance in metres

(12) Plot the results against the emission mask with reference to the horizontal plane.

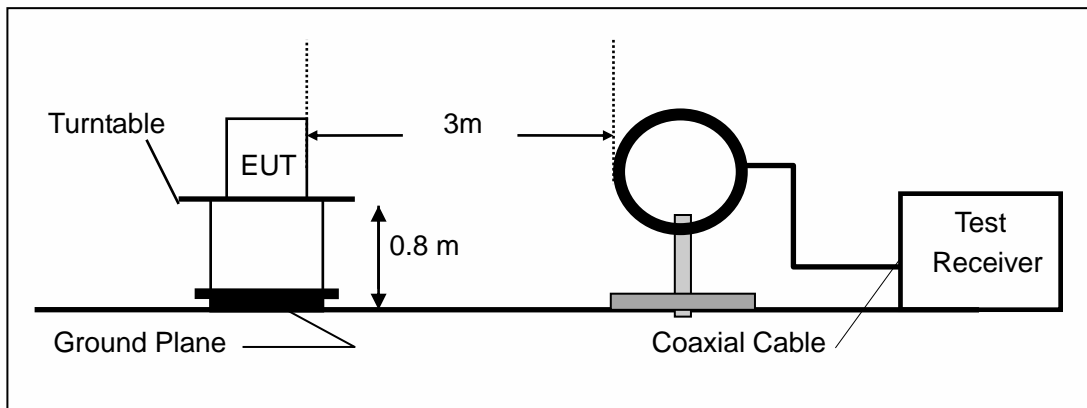
(13) Using the plot, the 0° can be rotated to determine the worst-case installation tilt angle.

(14) Testing shall be performed using the highest gain antenna for every antenna type, if applicable.

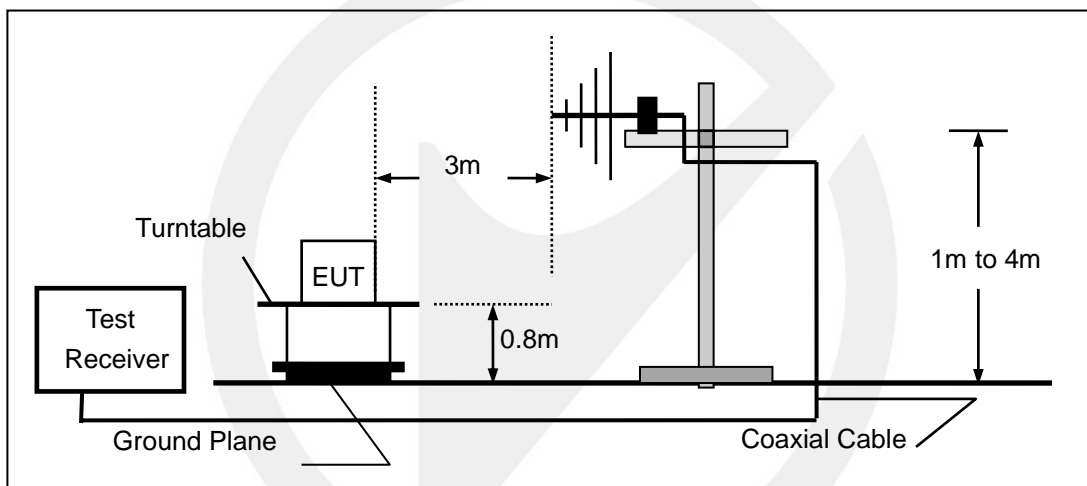
(15) Antenna type(s), antenna model number(s), and worst-case tilt angle(s) necessary to remain compliant with the elevation mask requirement set forth in Section 6.2.2(3) of RSS-247 shall be clearly indicated in the user manual.

The following figure is an example of a polar elevation mask measured using the Method 1 reference to dB μ V/m at 3 m.

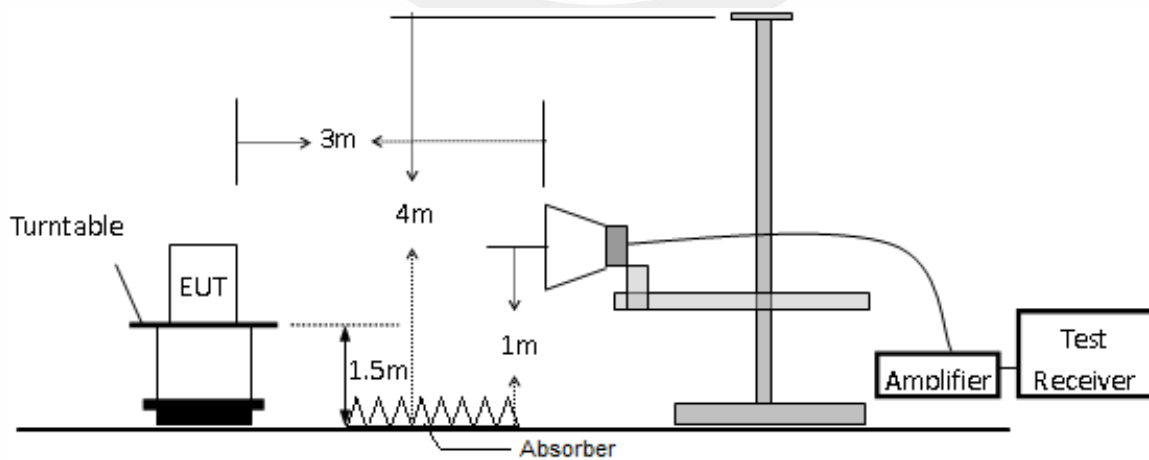
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

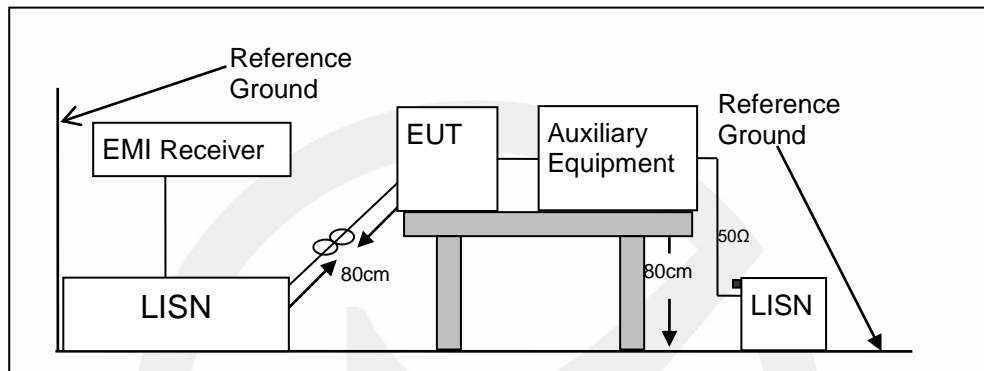


6.3 CONDUCTED EMISSION TEST SETUP

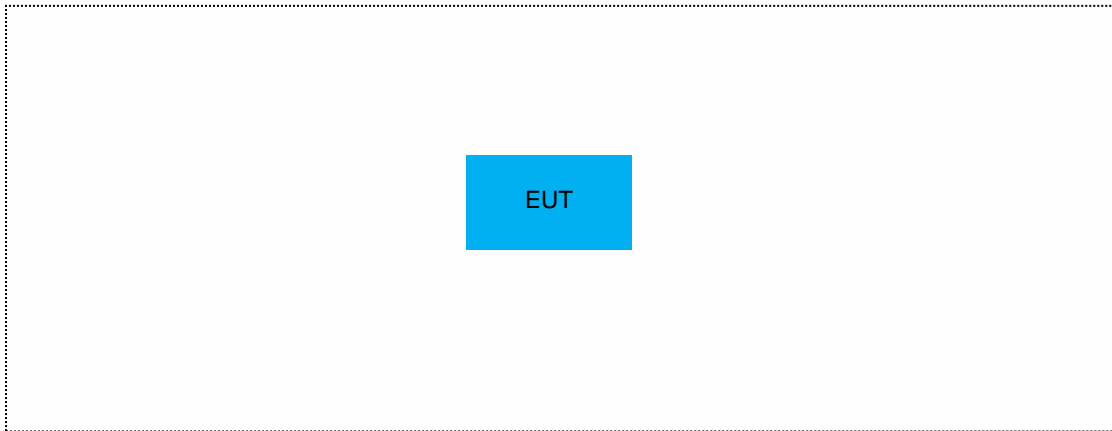
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.8 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

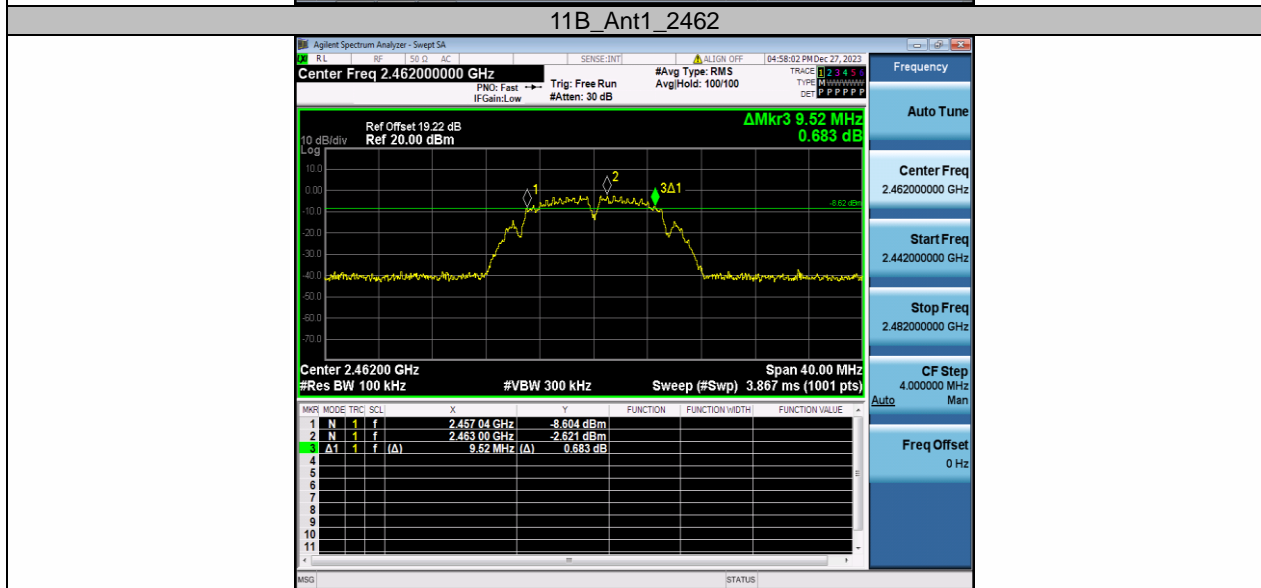
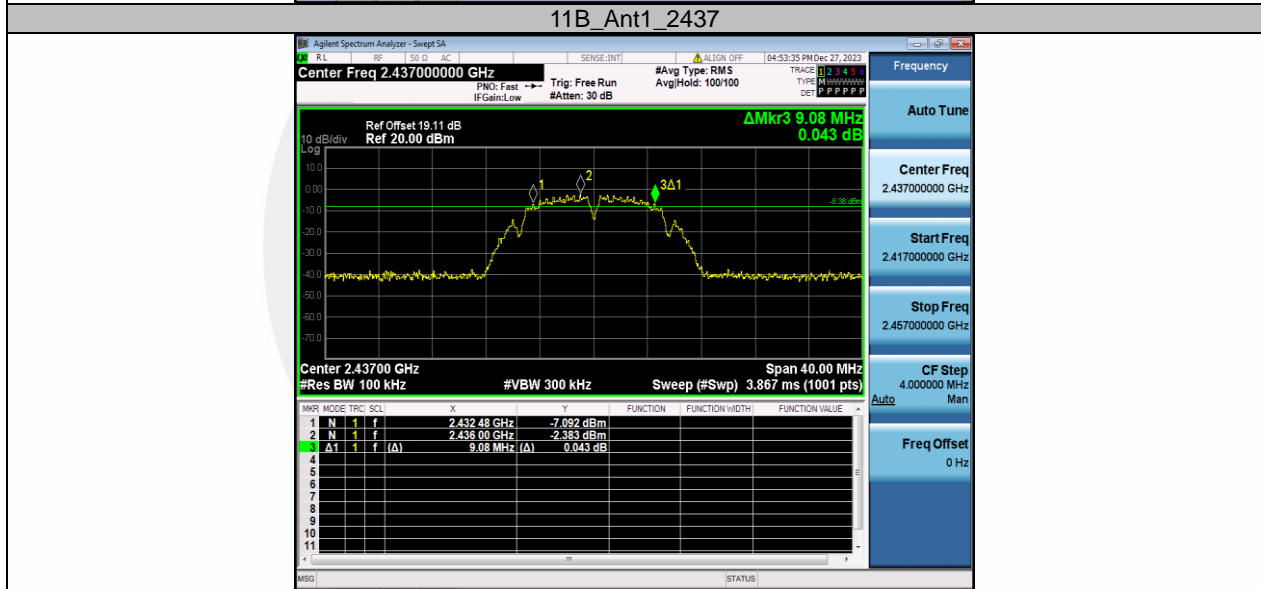
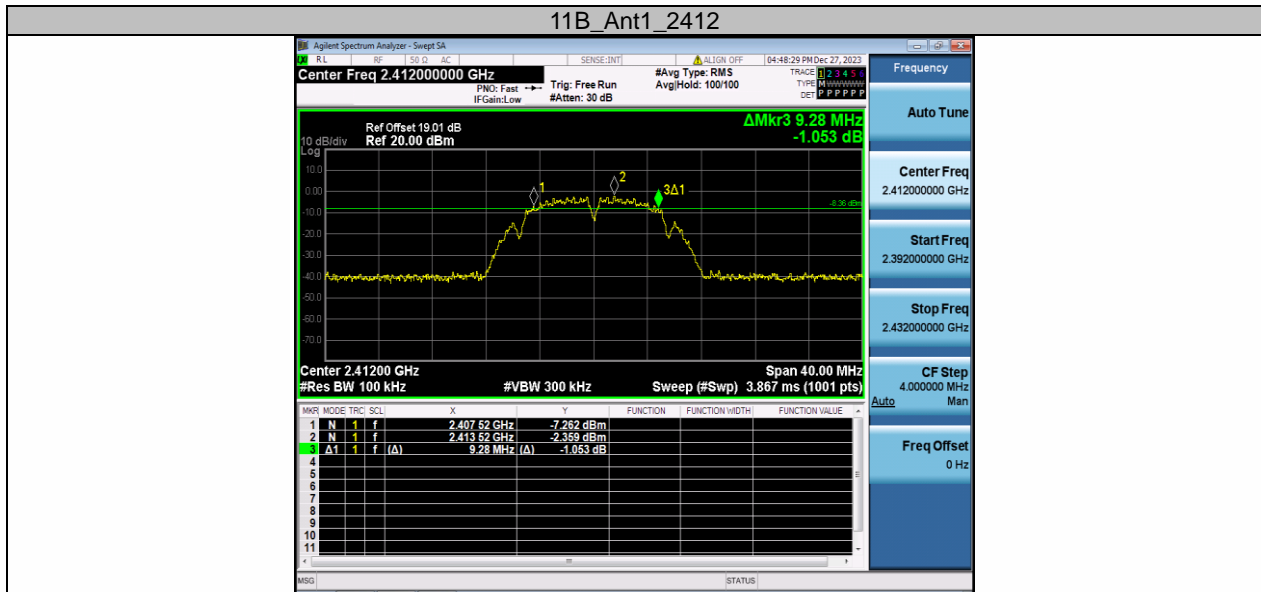
| EUT Cable List and Details | | | |
|----------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

| Auxiliary Cable List and Details | | | |
|----------------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

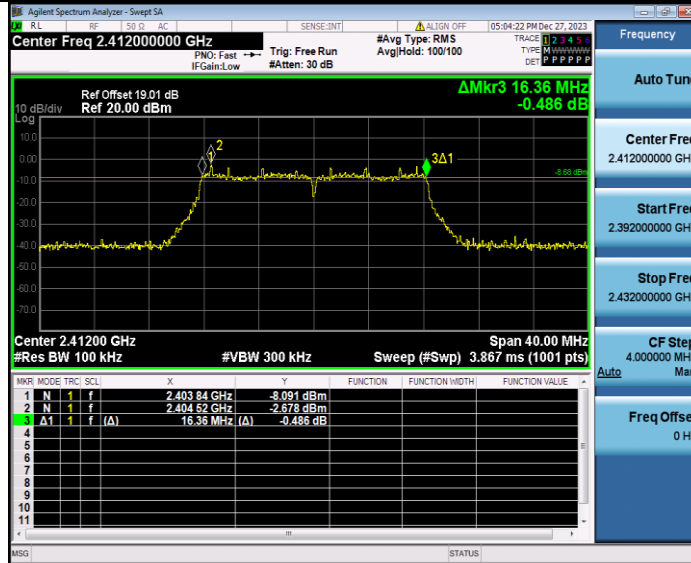
| Auxiliary Equipment List and Details | | | |
|--------------------------------------|--------------|-------|---------------|
| Description | Manufacturer | Model | Serial Number |
| / | / | / | / |

Notes:

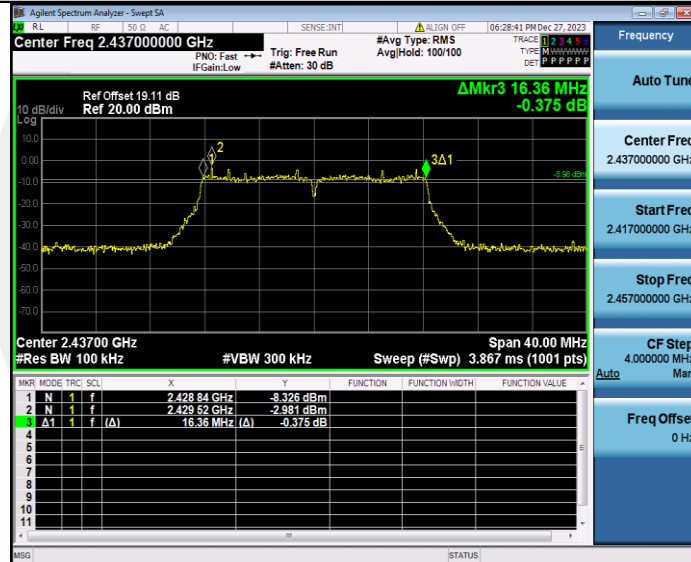
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



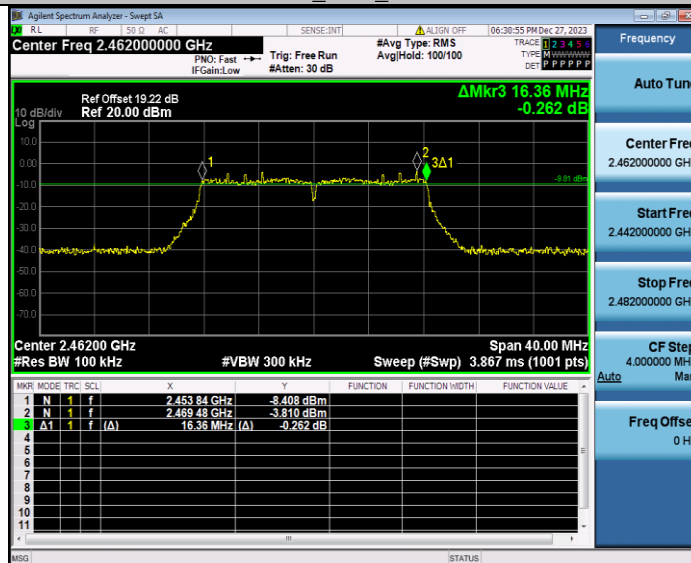
11G_Ant1_2412

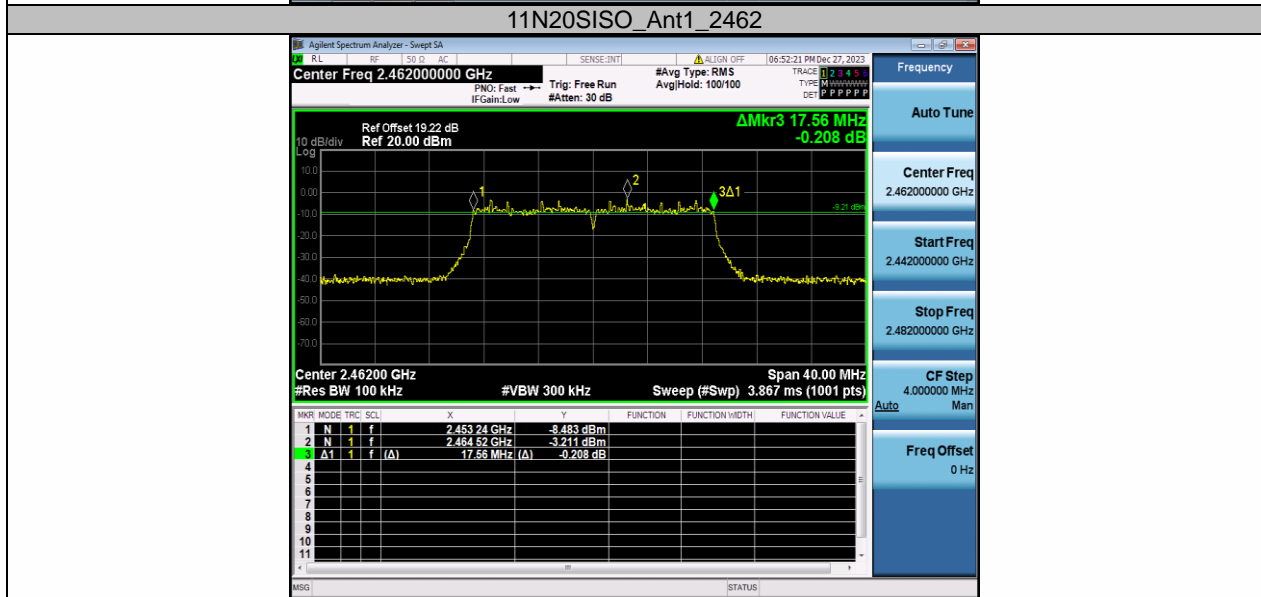
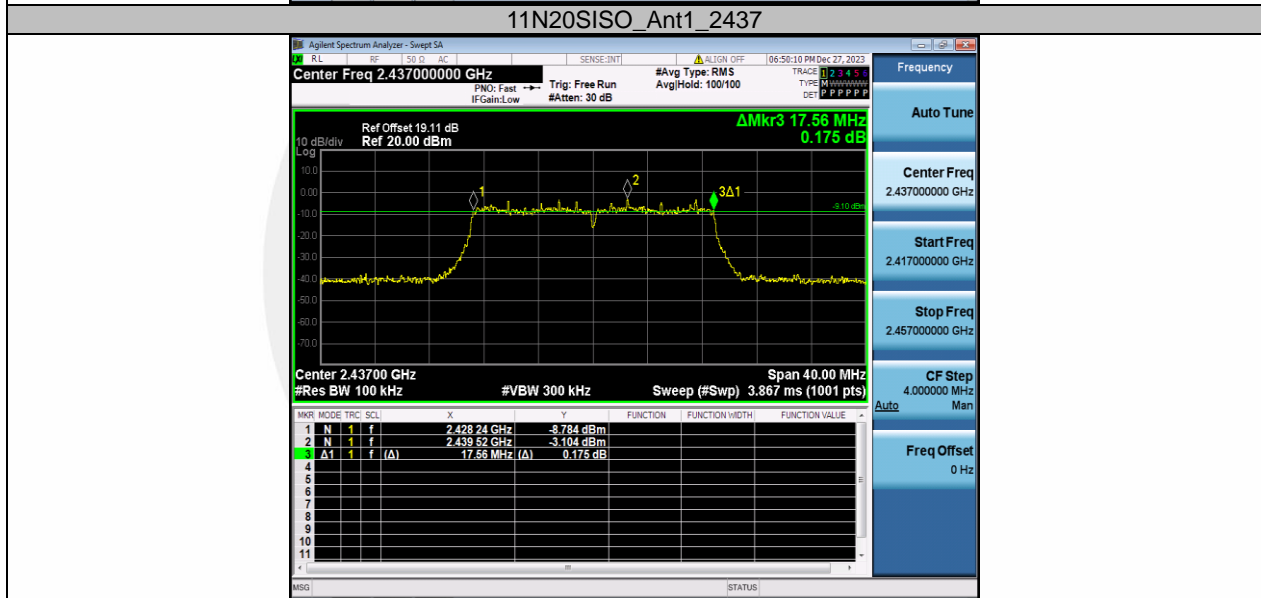
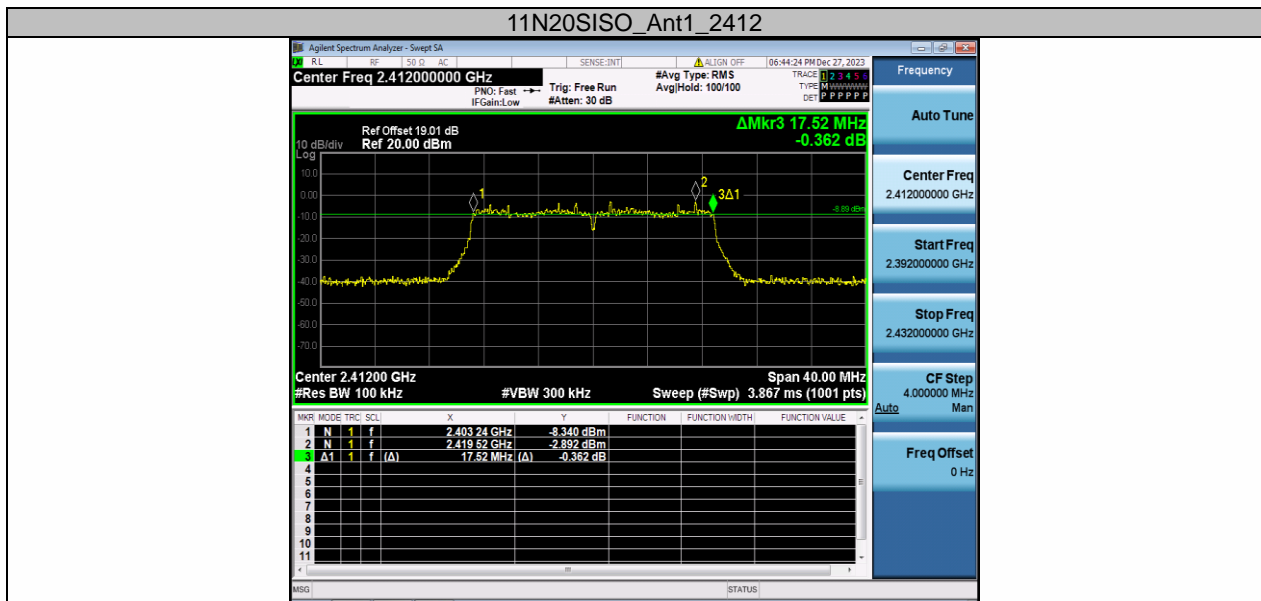


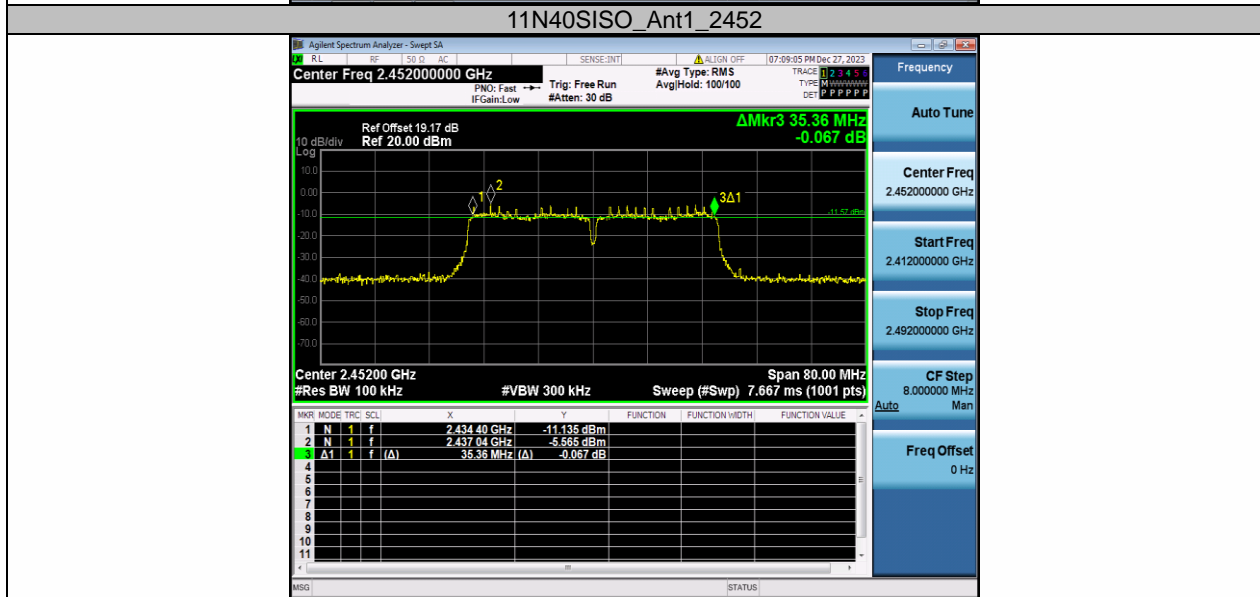
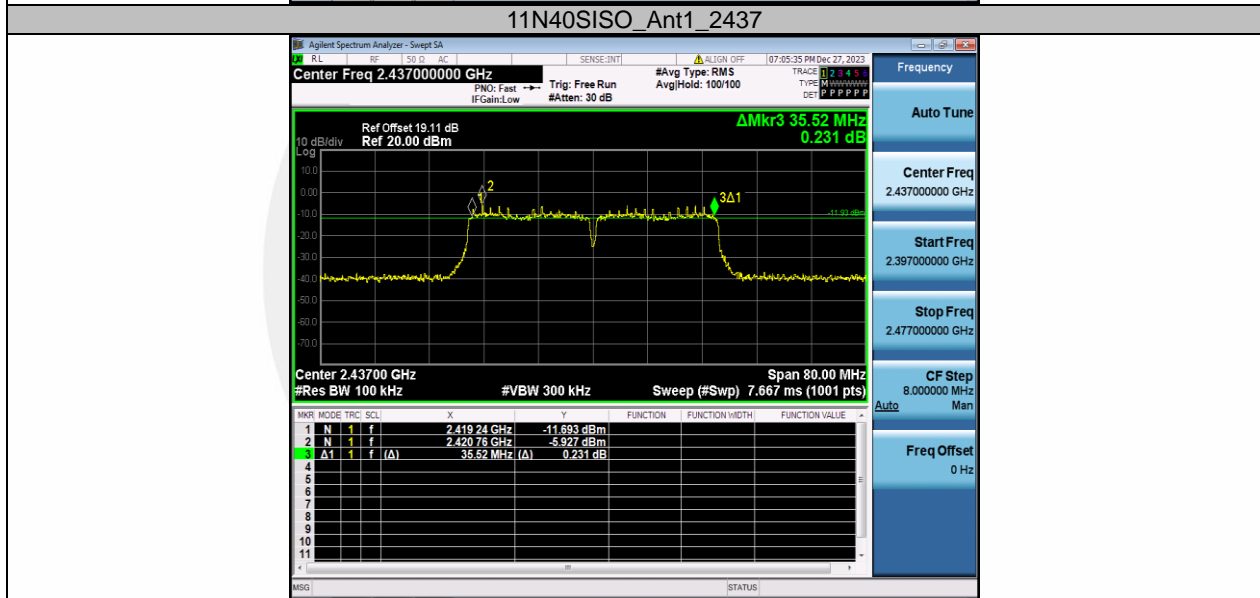
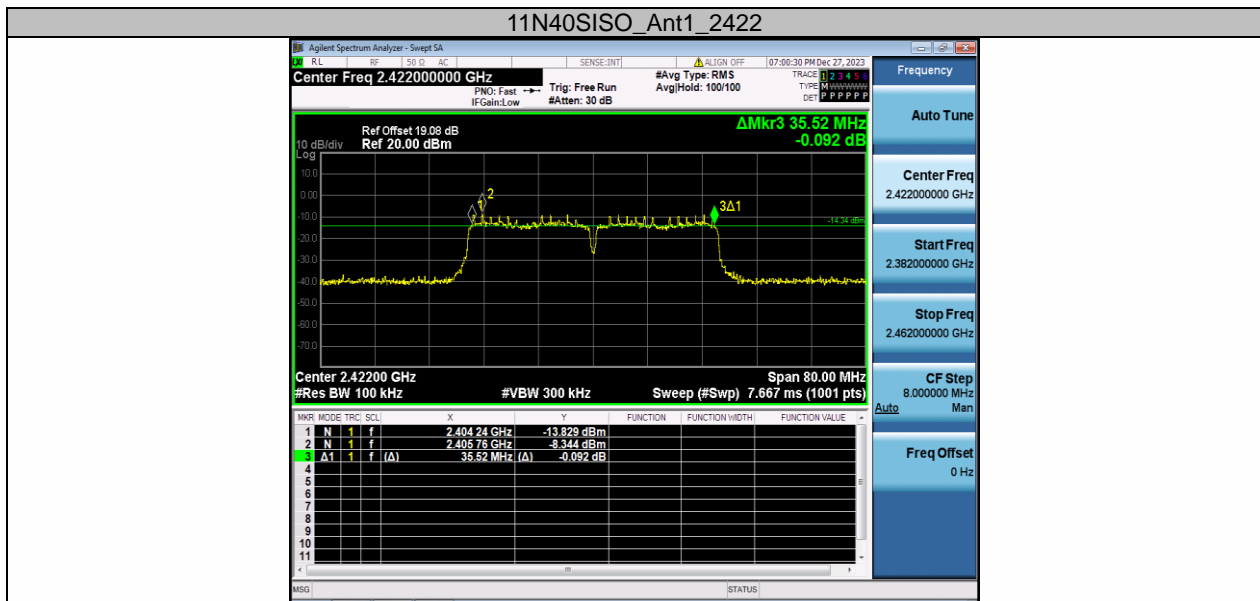
11G_Ant1_2437



11G_Ant1_2462







7.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

7.2.1 Applicable Standard

According to FCC Part15.247 (b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

7.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

7.2.4 Test Procedure

■ According to FCC Part15.247(b)(3)

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The testing follows FCC public Notice DA 00-705 Measurement Guidelines.

The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum output power setting and enable the EUT transmit continuously.

Measure the conducted output power with cable loss and record the results in the test report.

Measure and record the results in the report.

■ According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: If antenna Gain exceeds 6 dBi, then Output power Limit=30-(Gain- 6)

7.2.5 Test Results

Temperature : 25°C
 Humidity : 45 %

ATM Pressure: 1011 mbar
 Test By: Lily

| TestMode | Antenna | Frequen cy[MHz] | Peak Power[dBm] | Conducted Limit[dBm] | EIRP [dBm] | EIRP Limit[dBm] | Verdict |
|---------------|---------|--------------------|--------------------|-------------------------|---------------|--------------------|---------|
| 11B | Ant1 | 2412 | 7.36 | ≤30.00 | 8.36 | ≤36.00 | PASS |
| | | 2437 | 7.19 | ≤30.00 | 8.19 | ≤36.00 | PASS |
| | | 2462 | 7.17 | ≤30.00 | 8.17 | ≤36.00 | PASS |
| 11G | Ant1 | 2412 | 7.95 | ≤30.00 | 8.95 | ≤36.00 | PASS |
| | | 2437 | 7.75 | ≤30.00 | 8.75 | ≤36.00 | PASS |
| | | 2462 | 7.69 | ≤30.00 | 8.69 | ≤36.00 | PASS |
| 11N20SIS O | Ant1 | 2412 | 8.16 | ≤30.00 | 9.16 | ≤36.00 | PASS |
| | | 2437 | 7.94 | ≤30.00 | 8.94 | ≤36.00 | PASS |
| | | 2462 | 7.97 | ≤30.00 | 8.97 | ≤36.00 | PASS |
| 11N40SIS O | Ant1 | 2422 | 8.07 | ≤30.00 | 9.07 | ≤36.00 | PASS |
| | | 2437 | 7.98 | ≤30.00 | 8.98 | ≤36.00 | PASS |
| | | 2452 | 7.97 | ≤30.00 | 8.97 | ≤36.00 | PASS |

