

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**


FCC Applicant: CASTLES TECHNOLOGY CO., LTD.
6F., NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

FCC Manufacturer: CASTLES TECHNOLOGY CO., LTD.
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6F., NO. 207-5, SEC. 3, BEISHIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 23143, Taiwan (R.O.C)

Product Name: Smart module

Brand Name: 

Model No.: SNM758

Model Difference: N/A

Report Number: TERF2309002386E2

FCC ID WIYSNM758L

IC: 27350-SNM758L

Date of EUT Received: July 24, 2023

Date of Test: July 24, 2023~October 18, 2023

Issue Date: December 07, 2023

Approved By



Vito Pei

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. 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 comply with FCC rule part §15.247, ISED RSS-247.

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

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Revision History

| Report Number | Revision | Description | Issue Date | Revised By | Remark |
|------------------|----------|-----------------------------------|--------------|------------|--------|
| TERF2309002386E2 | 00 | Original | Nov. 3, 2023 | Candice Li | |
| TERF2309002386E2 | 01 | Modify Section 2.5, 2.6, 7.4.3 | Dec. 5, 2023 | Candice Li | * |
| TERF2309002386E2 | 02 | Modify Section 1.2, 2.6 | Dec. 7, 2023 | Candice Li | * |
| | | | | | |
| | | | | | |
| | | | | | |

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

| | |
|------------------------------|---|
| Product Name: | Smart module |
| Brand Name: |  |
| Model No.: | SNM758 |
| Model Difference: | N/A |
| Hardware Version: | N/A |
| Firmware Version: | N/A |
| EUT Series No.: | 173232315138 |
| Product Name of Host: | POS Terminal |
| Brand Name of Host: |  |
| Model No. of Host: | S2L |
| Power Supply: | 12Vdc from Adapter |
| Test Software (Name/Version) | Qualcomm® Radio Control Toolkit / 4.0.00206.0 |

1.2 RF Specification

WLAN 2.4GHz

| Wi-Fi | Frequency Range | Channels | Rated Power (dBm) | | Modulation Technology |
|------------------|-----------------|--------------------------------------|-------------------|-------|-----------------------|
| | | | Peak | Avg. | |
| 802.11b | 2412~2462 | 11 | 17.04 | 14.53 | DSSS |
| 802.11g | 2412~2462 | 11 | 21.97 | 13.90 | OFDM |
| 802.11n20 | 2412~2462 | 11 | 20.85 | 12.35 | OFDM |
| 802.11n40 | 2422~2452 | 7 | 21.14 | 11.71 | OFDM |
| Modulation type: | | CCK, DQPSK, DBPSK for DSSS | | | |
| | | 64QAM, 16QAM, QPSK, BPSK for OFDM | | | |
| Data Rate: | | 802.11 b: 1/2/5.5/11 Mbps | | | |
| | | 802.11 g: 6/9/12/18/24/36/48/54 Mbps | | | |
| | | 802.11 n_20MHz: up to 72.2Mbps | | | |
| | | 802.11 n_40MHz: up to 150Mbps | | | |

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WLAN 2.4GHz for IC

| Wi-Fi | Frequency Range | Channels | Rated Power (dBm) | | Rated Power in dBm (EIRP) | Modulation Technology |
|------------------|-----------------|--------------------------------------|-------------------|-------|---------------------------|-----------------------|
| | | | Peak | Avg. | | |
| 802.11b | 2412~2462 | 11 | 17.04 | 14.53 | 14.92 | DSSS |
| 802.11g | 2412~2462 | 11 | 21.97 | 13.90 | 14.29 | OFDM |
| 802.11n20 | 2412~2462 | 11 | 20.85 | 12.35 | 12.74 | OFDM |
| 802.11n40 | 2422~2452 | 7 | 21.14 | 11.71 | 12.10 | OFDM |
| Modulation type: | | CCK, DQPSK, DBPSK for DSSS | | | | |
| | | 64QAM, 16QAM, QPSK, BPSK for OFDM | | | | |
| Data Rate: | | 802.11 b: 1/2/5.5/11 Mbps | | | | |
| | | 802.11 g: 6/9/12/18/24/36/48/54 Mbps | | | | |
| | | 802.11 n_20MHz:up to 72.2Mbps | | | | |
| | | 802.11 n_40MHz:up to 150Mbps | | | | |

1.3 Antenna Designation

| Antenna Type | Supplier | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) | Directional Gain (dBi) |
|--------------|----------|------------------|-------------|-------------------------|------------------------|
| PIFA | AWAN | ALP6P-10000 | 2400~2500 | 0.39 | - |

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
RSS-247 issue 3 Aug. 2023
RSS-Gen,issue 5 April, 2018
ANSI C63.10:2013

1.5 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designa- tion number | IC CAB identifier |
|---|---|----------------|-----------------------------|----------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1 | TW0027 | TW3702 |
| | | SAC 2 | | |
| | | SAC 3 | | |
| | | Conduction 1 | | |
| | | Conducted 1 | | |
| | | Conducted 2 | | |
| | | Conducted 3 | | |
| | | Conducted 4 | | |
| | | Conducted 5 | | |
| | | Conducted 6 | | |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C | TW0028 | |
| | | SAC C | | |
| | | SAC D | | |
| | | SAC G | | |
| | | Conducted A | | |
| | | Conducted B | | |
| | | Conducted C | | |
| | | Conducted D | | |
| | | Conducted E | | |
| | | Conducted F | | |
| Conducted G | | | | |

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

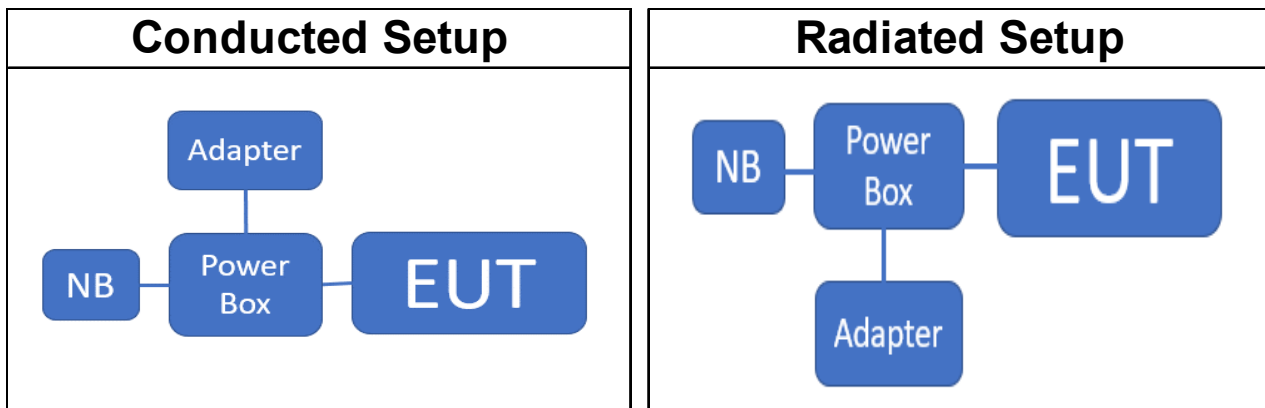
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2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

2.5 Test Configuration



2.6 Control Unit(s)

| Conducted Emission Test Site: Conducted G | | | | | |
|---|----------------------------------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Box | CASTLES | SATURN-PX | N/A | N/A | N/A |
| Adapter | ABP | AD0181- | N/A | N/A | N/A |
| USB TypeC Cable | CHANG YANG ELECTRONICS CO., LTD. | CY-AS-HK0059 | N/A | N/A | N/A |
| Notebook | Lenovo | T470 | P0001293 | N/A | N/A |

| Radiated Emission Test Site: SAC G | | | | | |
|------------------------------------|----------------------------------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Box | CASTLES | SATURN-PX | N/A | N/A | N/A |
| Adapter | ABP | AD0181- | N/A | N/A | N/A |
| USB TypeC Cable | CHANG YANG ELECTRONICS CO., LTD. | CY-AS-HK0059 | N/A | N/A | N/A |
| Notebook | Lenovo | T440p | P0000665 | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | ISED Rules | Description Of Test | Result |
|----------------------------------|--|--|-----------|
| §15.247(b) (3) | RSS-247 §5.4 d | Peak Output Power | Compliant |
| §15.247(a)(2) | RSS-247 §5.2 a RSS-Gen §6.7 | Emission Bandwidth | Compliant |
| §15.205 §15.209 §15.247(d) | RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13 | Radiated & Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(e) | RSS-247 §5.2 b | Power Spectral Density | Compliant |
| §15.203 | N/A | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

2400~2483.5 MHz

| 20MHz | | 40MHz | |
|-------|-------------|-------|-------------|
| CH | Freq. (MHz) | CH | Freq. (MHz) |
| 1 | 2412 | 3 | 2422 |
| 2 | 2417 | 4 | 2427 |
| 3 | 2422 | 5 | 2432 |
| 4 | 2427 | 6 | 2437 |
| 5 | 2432 | 7 | 2442 |
| 6 | 2437 | 8 | 2447 |
| 7 | 2442 | 9 | 2452 |
| 8 | 2447 | | |
| 9 | 2452 | | |
| 10 | 2457 | | |
| 11 | 2462 | | |

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

| Modulation | | Transmission Chain | | | | | | | | Single Transmission Spatial | | Multi Transmission Spatial | |
|------------|----------|--------------------|-----|--|-----|--|-----|--|-----|-----------------------------|-----|----------------------------|-----|
| v | 802.11 b | v | Ch0 | | Ch1 | | Ch2 | | Ch3 | v | 1TX | | 1TX |
| v | 802.11 g | v | Ch0 | | Ch1 | | Ch2 | | Ch3 | v | 1TX | | 1TX |
| v | 802.11 n | v | Ch0 | | Ch1 | | Ch2 | | Ch3 | v | 1TX | | 1TX |

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4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

| Conducted | | | | | |
|----------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 1,6,11 | DSSS | 1 | ch0 |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 | ch0 |
| 802.11n (HT20) | 1 to 11 | 1,6,11 | OFDM | MCS0 | ch0 |
| 802.11n (HT40) | 3 to 9 | 3,6,9 | OFDM | MCS0 | ch0 |

| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|---|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11g | 1 to 11 | 6 | OFDM | 6 | 1TX |

| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
|---|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 1,6,11 | DSSS | 1 | 1TX |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 | 1TX |
| 802.11n (HT20) | 1 to 11 | 1,6,11 | OFDM | MCS0 | 1TX |
| 802.11n (HT40) | 3 to 9 | 3,6,9 | OFDM | MCS0 | 1TX |

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|--|-------------|
| Output Power measurement | +/- 1 dB |
| Emission Bandwidth | +/- 1.53 Hz |
| Undesignable radiated emission measurement | +/- 1.68 dB |
| Peak Power Density | +/- 2.16 dB |
| Temperature | +/- 0.7 °C |
| Humidity | +/- 3 % |
| DC / AC Power Source | +/- 1 % |

| Radiated Spurious Emission Measurement Uncertainty | | | |
|--|-----|---------|-----------------|
| Polarization: Vertical | +/- | 2.8 dB | 9kHz~30MHz |
| | +/- | 4.82 dB | 30MHz - 1000MHz |
| | +/- | 4.37 dB | 1GHz - 18GHz |
| | +/- | 4.21 dB | 18GHz - 40GHz |
| Polarization: Horizontal | +/- | 2.8 dB | 9kHz~30MHz |
| | +/- | 4.54 dB | 30MHz - 1000MHz |
| | +/- | 4.37 dB | 1GHz - 18GHz |
| | +/- | 4.21 dB | 18GHz - 40GHz |

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

| Conducted Emission Test Site: Conducted G | | | | | |
|---|------------|---------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY60240506 | 06/20/2023 | 06/19/2024 |
| Power Meter | Anritsu | ML2496A | 1512003 | 09/08/2023 | 09/07/2024 |
| Power Sensor | Anritsu | MA2411B | 1339378 | 09/08/2023 | 09/07/2024 |
| Power Sensor | Anritsu | MA2411B | 1339379 | 09/08/2023 | 09/07/2024 |
| Test Software | SGS Taiwan | Radio Test Software | Ver.21 | N.C.R | N.C.R |
| Attenuator | Woken | WATT-218FS-10 | RF16 | 11/16/2022 | 11/15/2023 |
| DC Block | PASTERNAK | PE8210 | RF158 | 11/16/2022 | 11/15/2023 |

6.2 Radiated Measurement

| Radiated Emission Test Site: SAC G | | | | | |
|------------------------------------|-----------------|--------------------------------|--------------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Broadband Antenna | SCHWARZBECK | VULB 9168 | 1206 | 01/17/2023 | 01/16/2024 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/30/2022 | 12/29/2023 |
| Horn Antenna | RF SPIN | DRH18-E | 210105A18E | 04/18/2023 | 04/17/2024 |
| Loop Antenna | ETS.LINDGREN | 6502 | 14303 | 05/23/2023 | 05/22/2024 |
| 3m Site NSA | SGS | 966 chamber G | N/A | 03/30/2023 | 03/29/2024 |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY51440113 | 07/17/2023 | 07/16/2024 |
| Test Software | audix | e3 | E3 20923 SGS Ver.9 (C) | N.C.R | N.C.R |
| Pre-Amplifier | EMC Instruments | EMC18405SEE | 980881 | 10/25/2022 | 10/24/2023 |
| Pre-Amplifier | EMC Instruments | EMC330N | 980781 | 03/15/2023 | 03/14/2024 |
| Pre-Amplifier | EMC Instruments | EMC118A45SE | 980815 | 03/15/2023 | 03/14/2024 |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM-8000-5000-2000 | 210216 、 210217 、 210218 | 03/15/2023 | 03/14/2024 |
| Coaxial Cable | EMC Instruments | EMC104-SM-SM-8000-5000-5000 | 210219 、 210220 、 210221 | 03/15/2023 | 03/14/2024 |
| Coaxial Cable | EMC Instruments | EMC105-NM-NM-5000-15000 | 210224 、 210306 | 03/15/2023 | 03/14/2024 |

NOTE: N.C.R refers to Not Calibrated Required.

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

7.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1.2 FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

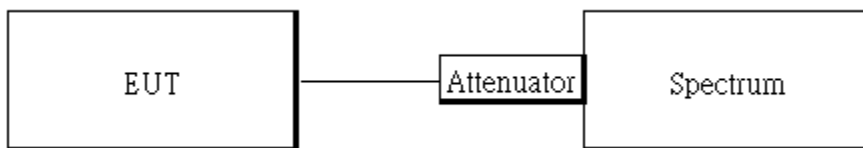
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.1.3 ISED

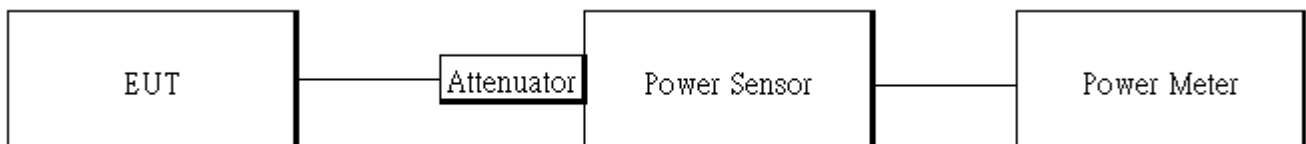
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W (ISED only).

7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power:



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7.3 Measurement Procedure

7.3.1 Duty Cycle:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

7.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

*** Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.**

7.4 Measurement Result

7.4.1 Duty Cycle:

| | Duty Cycle (%) = Ton / (Ton+Toff) | Duty Factor (dB) =10*log (1/Duty Cycle) | 1/T (kHz) | VBW setting (kHz) |
|------------|--------------------------------------|--|--------------|----------------------|
| 802.11b | 97.62 | 0.10 | 0.12 | 1.00 |
| 802.11g | 87.29 | 0.59 | 0.74 | 1.00 |
| 802.11n_20 | 86.53 | 0.63 | 0.79 | 1.00 |
| 802.11n_40 | 76.05 | 1.19 | 1.58 | 2.00 |

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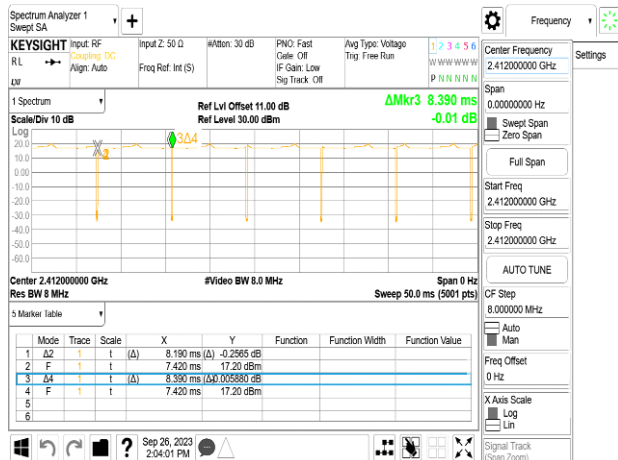
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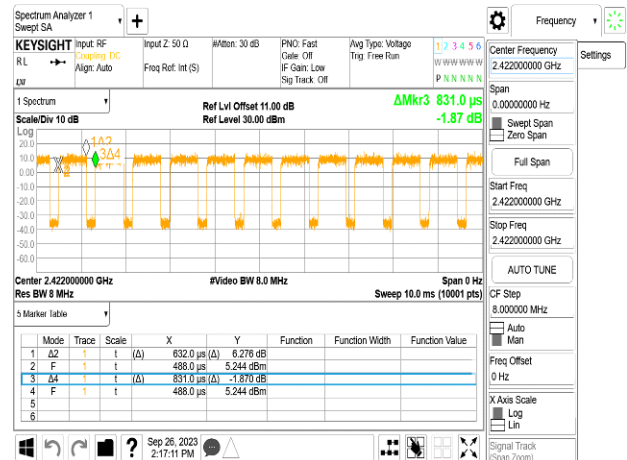
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7.4.2 Duty Cycle test plots

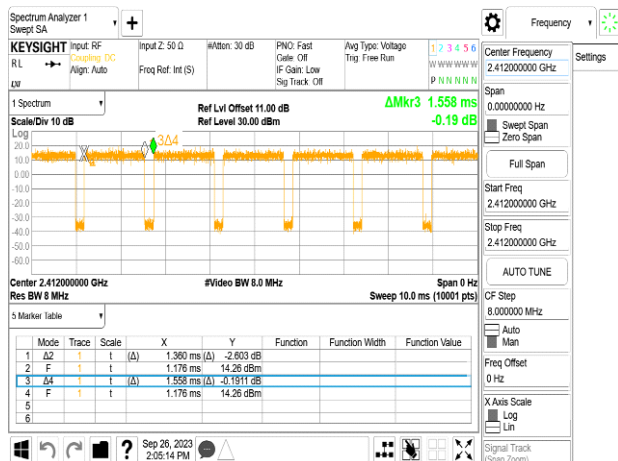
802.11b_20MHz_Chain0_2412MHz



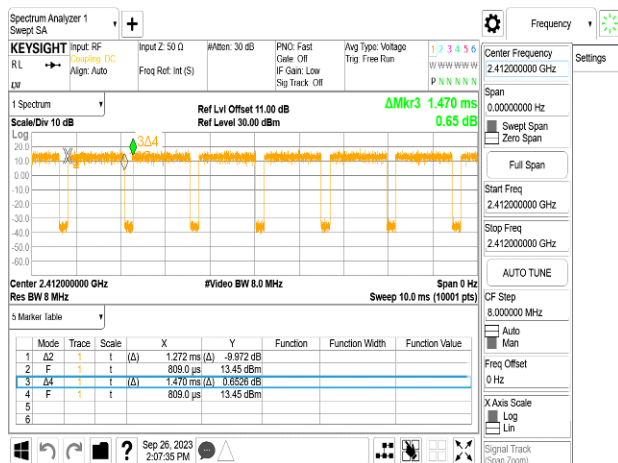
802.11n_40MHz_Chain0_2422MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



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7.4.3 Output Power

Peak & Average

| 802.11b Ch0 | | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 15 | 17.04 | 30.00 | PASS |
| 6 | 2437 | 1 | 16 | 16.92 | 30.00 | PASS |
| 11 | 2462 | 1 | 15 | 16.96 | 30.00 | PASS |

| 802.11b Ch0 | | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 15 | 14.53 | 30.00 | PASS |
| 6 | 2437 | 1 | 16 | 14.22 | 30.00 | PASS |
| 11 | 2462 | 1 | 15 | 14.37 | 30.00 | PASS |

| 802.11g Ch0 | | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 15 | 21.97 | 30.00 | PASS |
| 6 | 2437 | 6 | 15 | 21.52 | 30.00 | PASS |
| 11 | 2462 | 6 | 14 | 21.55 | 30.00 | PASS |

| 802.11g Ch0 | | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 15 | 13.90 | 30.00 | PASS |
| 6 | 2437 | 6 | 15 | 13.17 | 30.00 | PASS |
| 11 | 2462 | 6 | 14 | 13.07 | 30.00 | PASS |

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| 802.11n_HT_20M Ch0 | | | | | | |
|--------------------|----------------|--------------|--------------|-------------------------------|----------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 13 | 20.67 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 14 | 20.85 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 13 | 20.42 | 30.00 | PASS |
| 802.11n_HT_20M Ch0 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 13 | 12.35 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 14 | 12.35 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 13 | 12.05 | 30.00 | PASS |

| 802.11n_HT_40M Ch0 | | | | | | |
|--------------------|----------------|--------------|--------------|-------------------------------|----------------|--------|
| CH | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 13 | 20.84 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 14 | 21.14 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 12 | 19.21 | 30.00 | PASS |
| 802.11n_HT_40M Ch0 | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power set | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 13 | 11.60 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 14 | 11.71 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 12 | 11.30 | 30.00 | PASS |

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| 802.11b Ch0 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 14.53 | 0.39 | 14.92 | 36 | PASS |
| 6 | 2437 | 1 | 14.22 | 0.39 | 14.61 | 36 | PASS |
| 11 | 2462 | 1 | 14.37 | 0.39 | 14.76 | 36 | PASS |

| 802.11g Ch0 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 13.90 | 0.39 | 14.29 | 36 | PASS |
| 6 | 2437 | 6 | 13.17 | 0.39 | 13.56 | 36 | PASS |
| 11 | 2462 | 6 | 13.07 | 0.39 | 13.46 | 36 | PASS |

| 802.11n_HT_20M Ch0 | | | | | | | |
|--------------------|-------------|-----------|-------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 12.35 | 0.39 | 12.74 | 36 | PASS |
| 6 | 2437 | MCS0 | 12.35 | 0.39 | 12.74 | 36 | PASS |
| 11 | 2462 | MCS0 | 12.05 | 0.39 | 12.44 | 36 | PASS |

| 802.11n_HT_40M Ch0 | | | | | | | |
|--------------------|-------------|-----------|-------------------------|--------------------|--------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 3 | 2422 | MCS0 | 11.60 | 0.39 | 11.99 | 36 | PASS |
| 6 | 2437 | MCS0 | 11.71 | 0.39 | 12.10 | 36 | PASS |
| 9 | 2452 | MCS0 | 11.30 | 0.39 | 11.69 | 36 | PASS |

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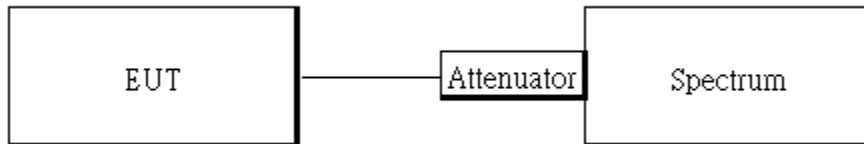
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8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2 Test Setup



8.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.3.1 6dB BW measurements

1. The testing follows the Measurement Procedure of the KDB 558074 D01.
2. Set the spectrum analyzer as
RBW= 100 kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of -6dB.
4. Repeat above procedures until all test default channel is completed.

8.3.2 99% BW measurements

1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
2. Set the spectrum analyzer as
RBW= 1 % to 5% of 99%,
VBW \geq 3 X RBW,
Span= large enough to capture all products of the modulation process
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of 99%.
4. Repeat above procedures until all test default channel is completed.

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8.4 Measurement Result:

8.4.1 6dB BW measurements

802.11b Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|----------------|-----------------|----------------|--------|
| 2412 | 8584.00 | ≥ 500 | PASS |
| 2437 | 8569.00 | ≥ 500 | PASS |
| 2462 | 8575.00 | ≥ 500 | PASS |

802.11g Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|----------------|-----------------|----------------|--------|
| 2412 | 15820.00 | ≥ 500 | PASS |
| 2437 | 16420.00 | ≥ 500 | PASS |
| 2462 | 16350.00 | ≥ 500 | PASS |

802.11n_HT_20M Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|----------------|-----------------|----------------|--------|
| 2412 | 17600.00 | ≥ 500 | PASS |
| 2437 | 17630.00 | ≥ 500 | PASS |
| 2462 | 17210.00 | ≥ 500 | PASS |

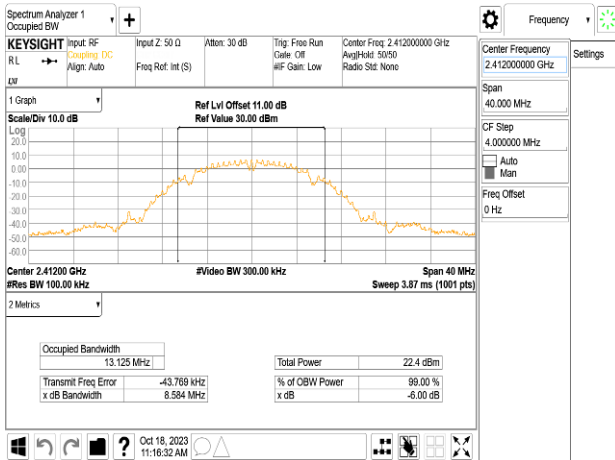
802.11n_HT_40M Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|----------------|-----------------|----------------|--------|
| 2422 | 35230.00 | ≥ 500 | PASS |
| 2437 | 35410.00 | ≥ 500 | PASS |
| 2452 | 35190.00 | ≥ 500 | PASS |

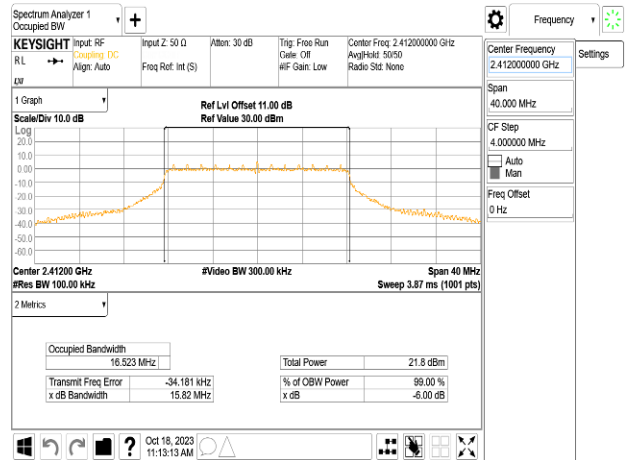
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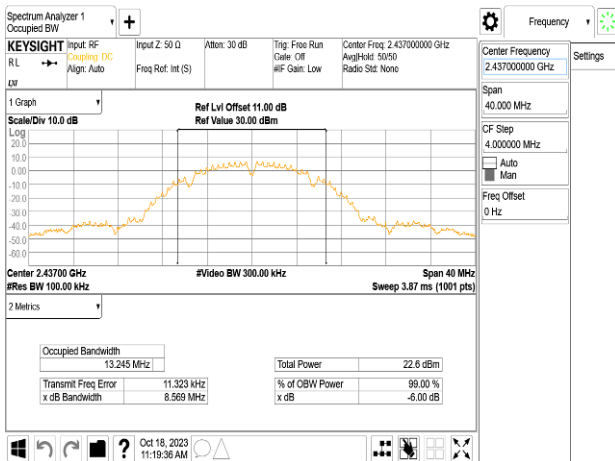
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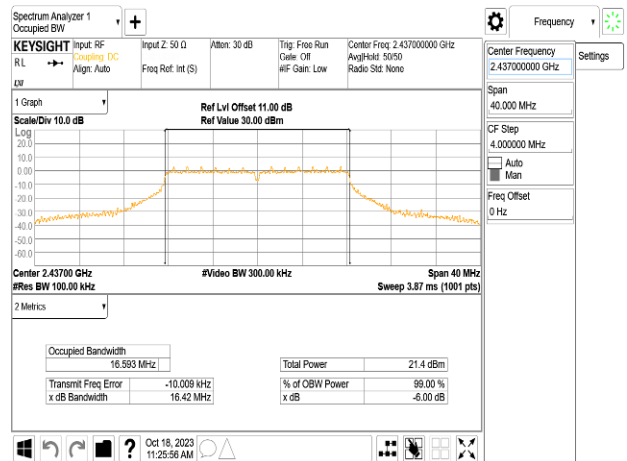
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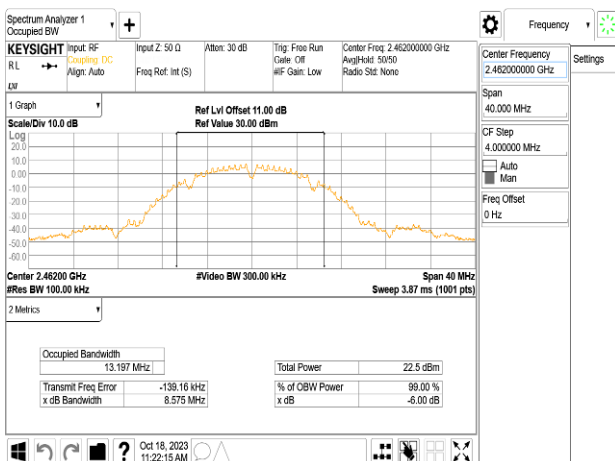
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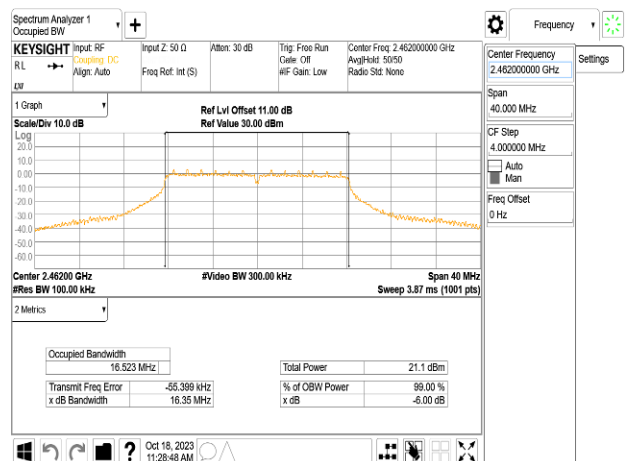
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

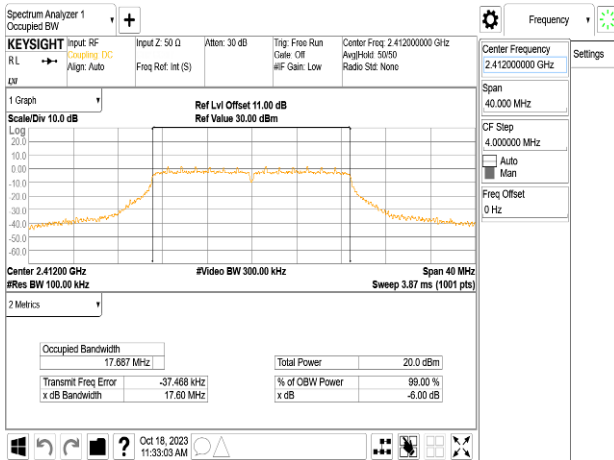


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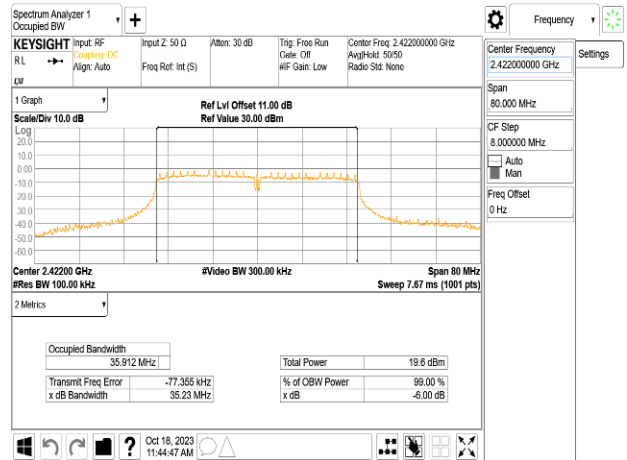
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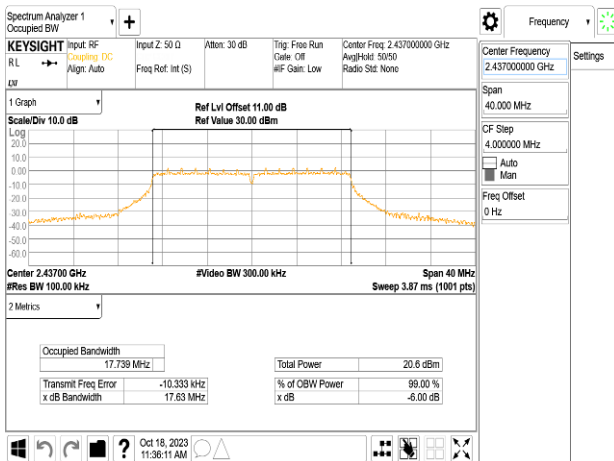
802.11n_20MHz_Chain0_2412MHz



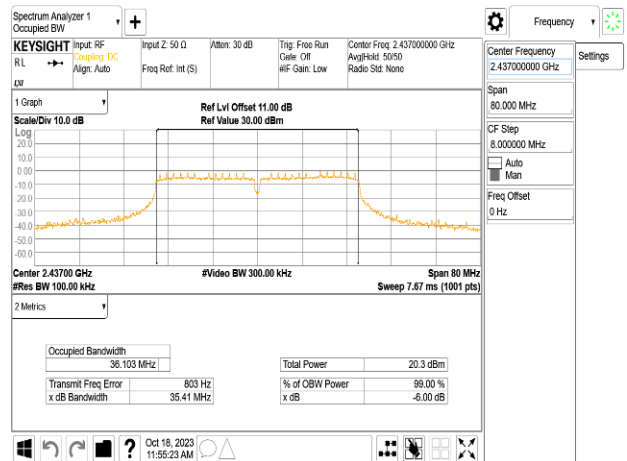
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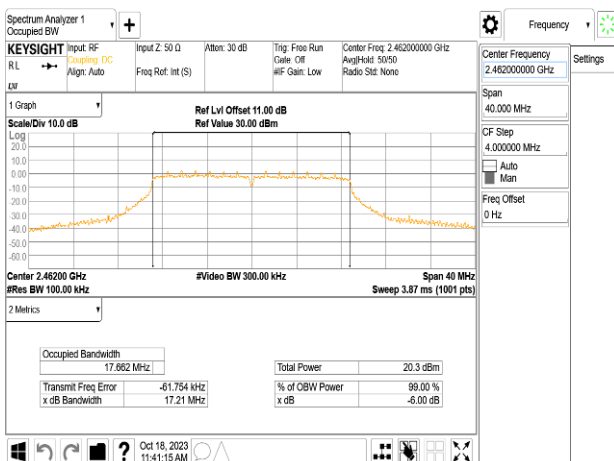
802.11n_20MHz_Chain0_2437MHz



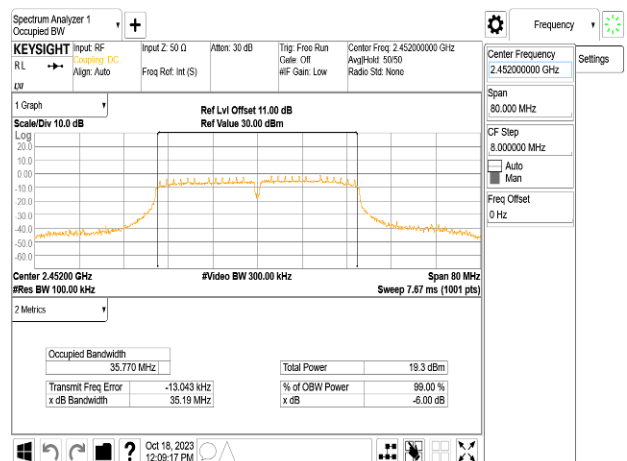
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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8.4.2 99% Bandwidth

802.11b Ch0

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 13.131 |
| 2437 | 13.284 |
| 2462 | 13.269 |

802.11g Ch0

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 17.034 |
| 2437 | 17.275 |
| 2462 | 17.053 |

802.11n_HT20M Ch0

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 18.062 |
| 2437 | 18.154 |
| 2462 | 18.029 |

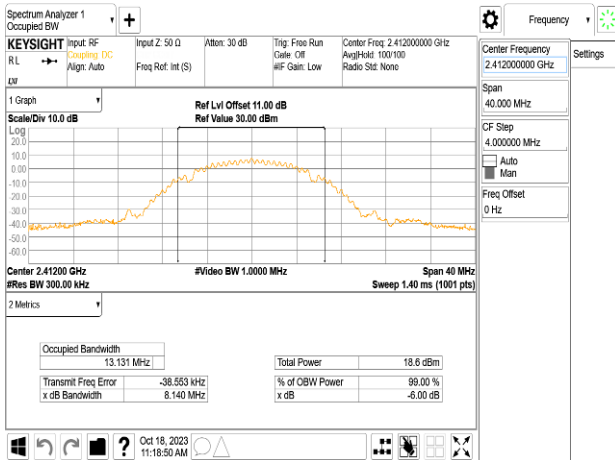
802.11n_HT40M Ch0

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2422 | 36.349 |
| 2437 | 36.587 |
| 2452 | 36.086 |

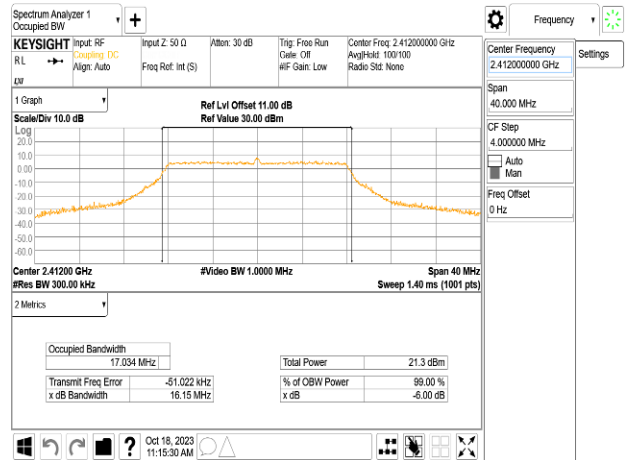
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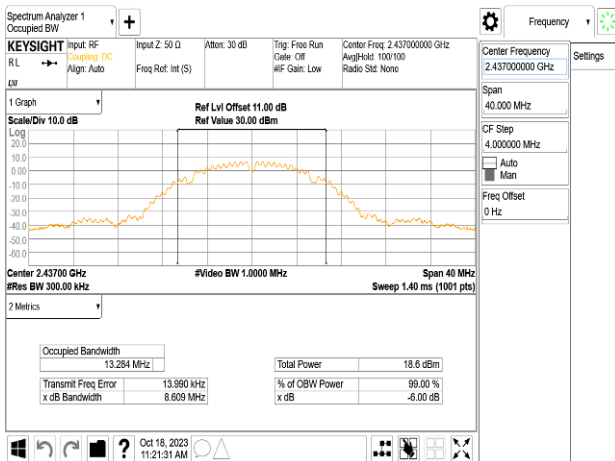
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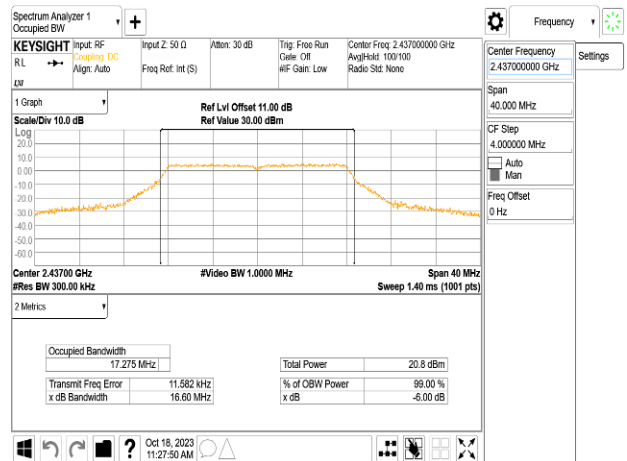
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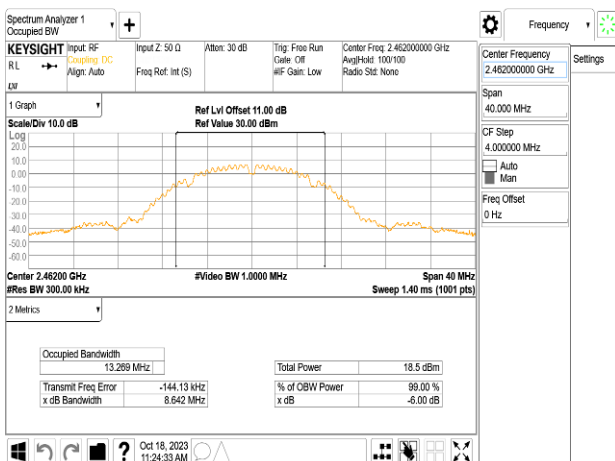
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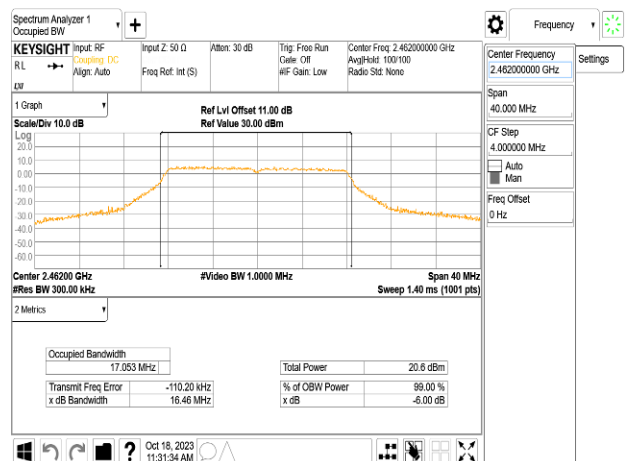
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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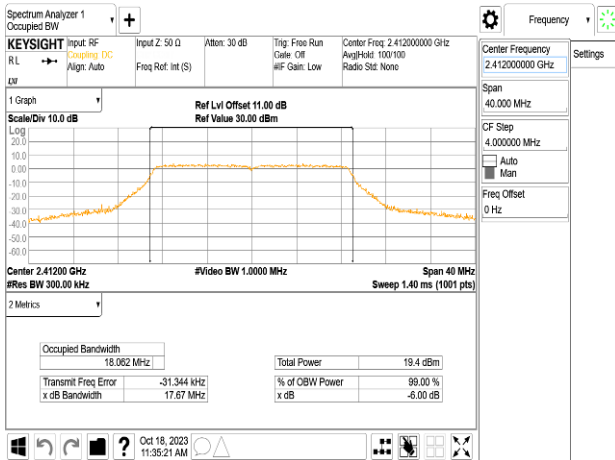
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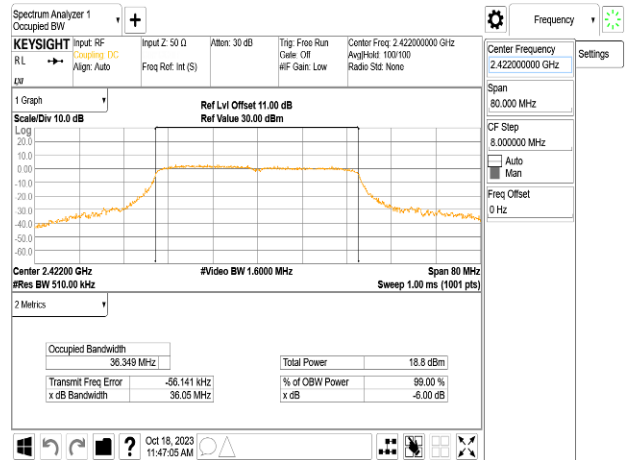
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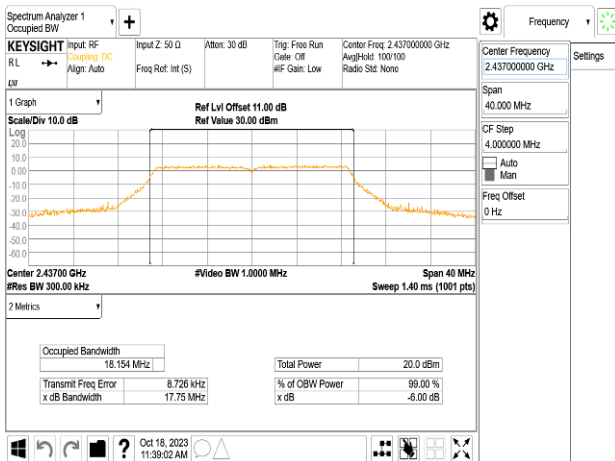
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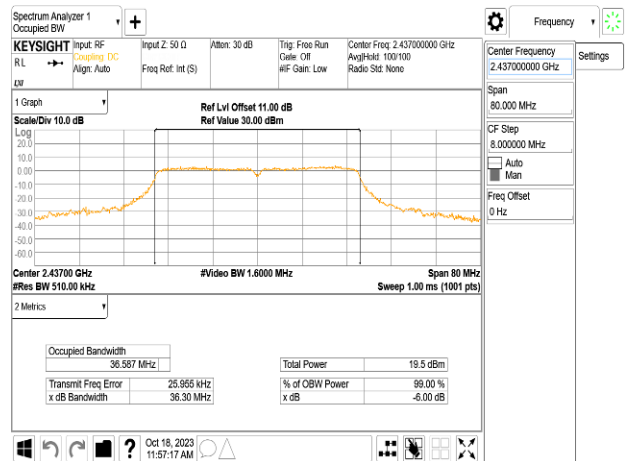
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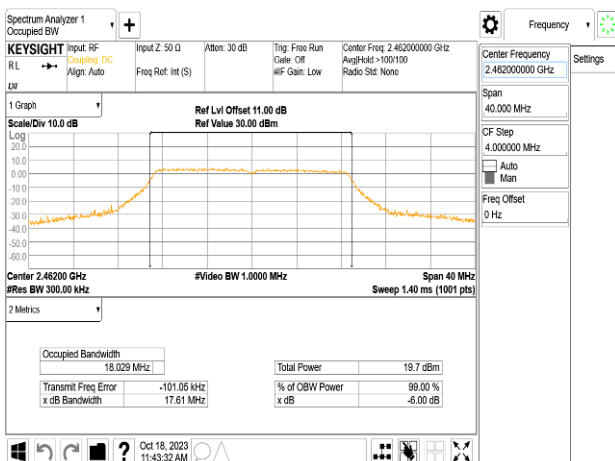
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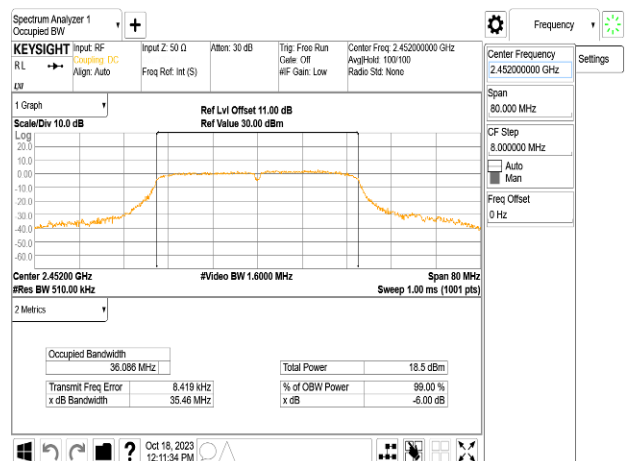
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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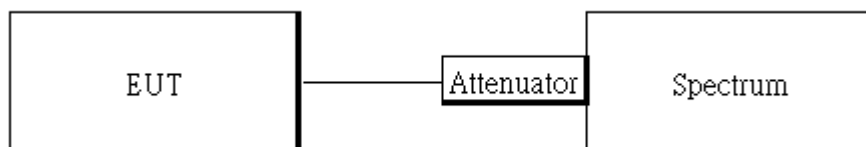
9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

9.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

9.2 Test Setup



9.3 Measurement Procedure

9.3.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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9.3.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

9.4 Measurement Result

802.11b Ch0

| Reference Level of Limit | | | Reference Level of Limit | | |
|--------------------------|-----------|--------------------------------|--------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) | Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 6.56 | -13.44 | 2412 | 5.13 | -14.87 |
| 2437 | 6.79 | -13.21 | 2437 | 2.99 | -17.01 |
| 2462 | 6.83 | -13.17 | 2462 | 3.14 | -16.86 |

802.11g Ch0

802.11n_HT_20M Ch0

| Reference Level of Limit | | | Reference Level of Limit | | |
|--------------------------|-----------|--------------------------------|--------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) | Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 1.40 | -18.60 | 2422 | -1.1 | -21.10 |
| 2437 | 2.02 | -17.98 | 2437 | -0.67 | -20.67 |
| 2462 | 2.20 | -17.80 | 2452 | -1.55 | -21.55 |

802.11n_HT_40M Ch0

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802.11b_20MHz_Chain0_2412MHz



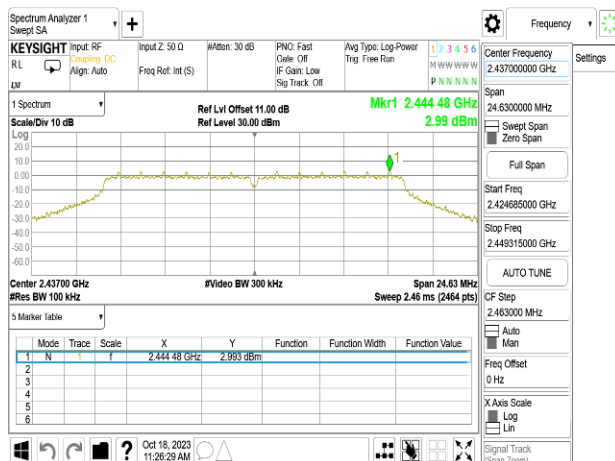
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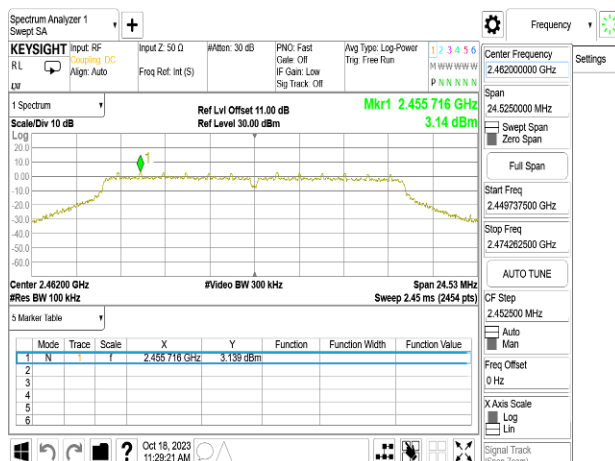
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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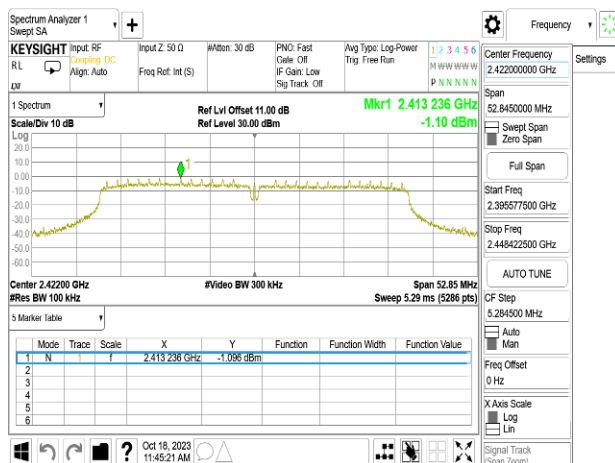
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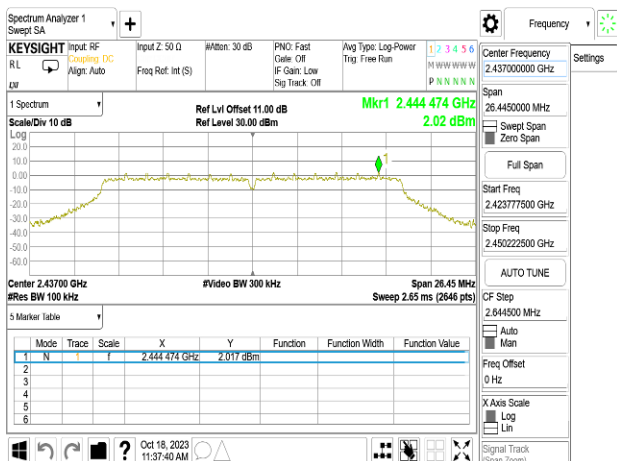
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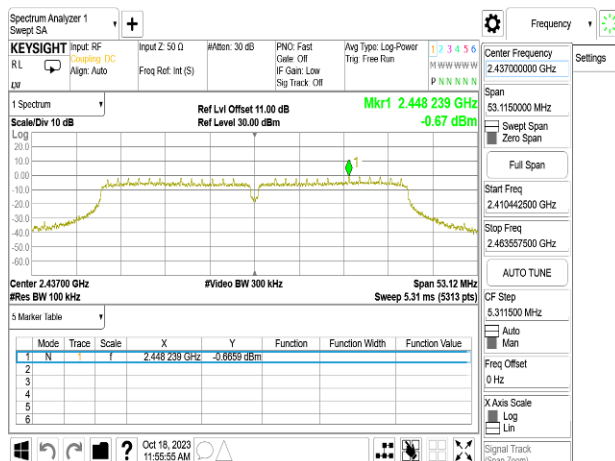
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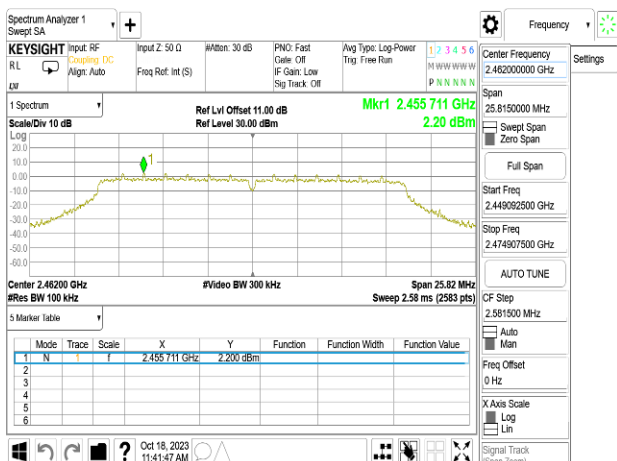
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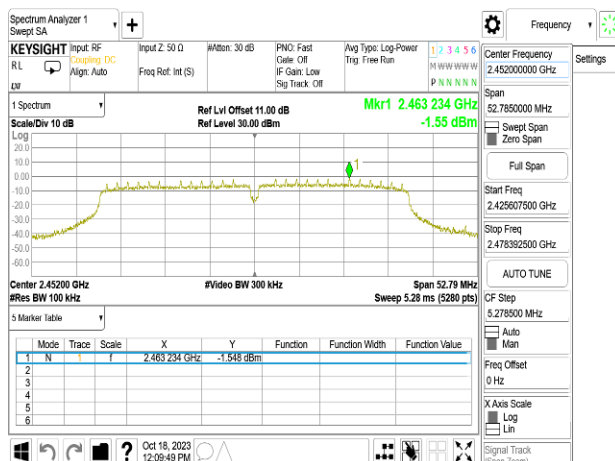
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802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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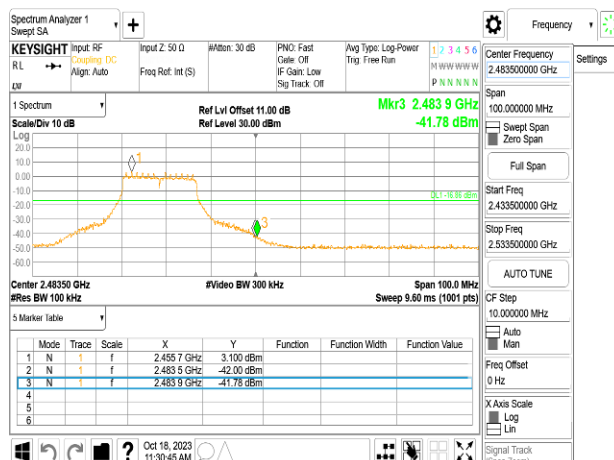
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802.11b_20MHz_Chain0_2412MHz



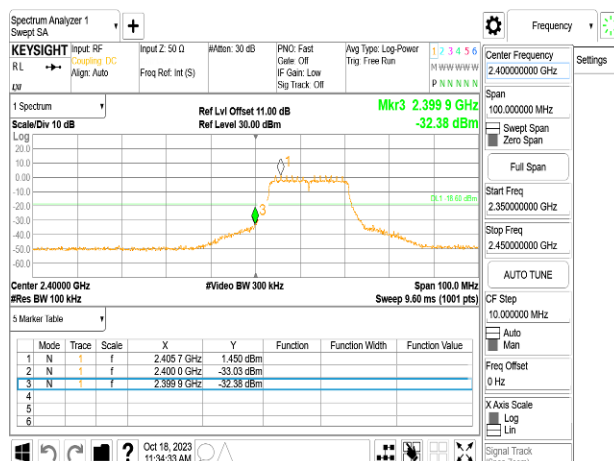
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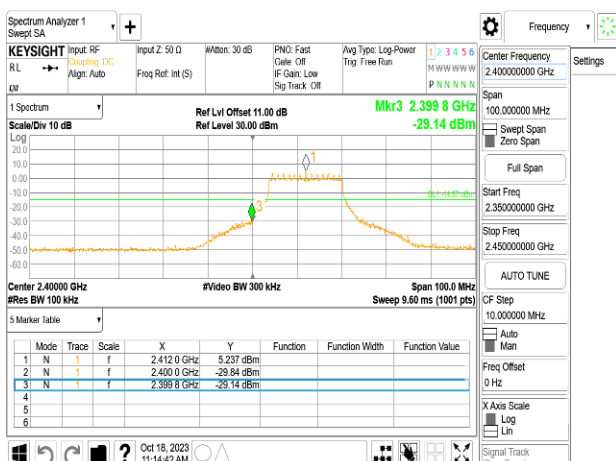
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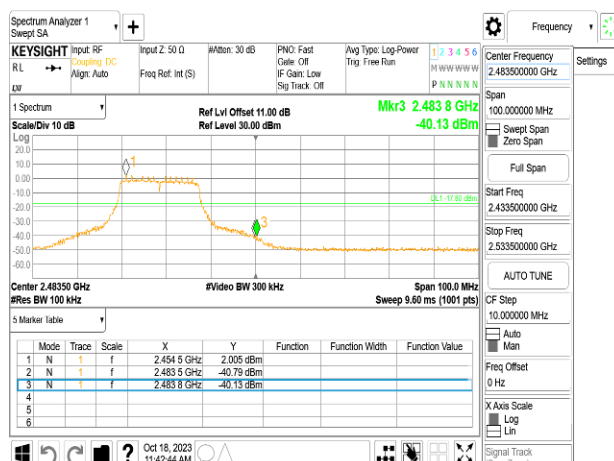
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802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2462MHz



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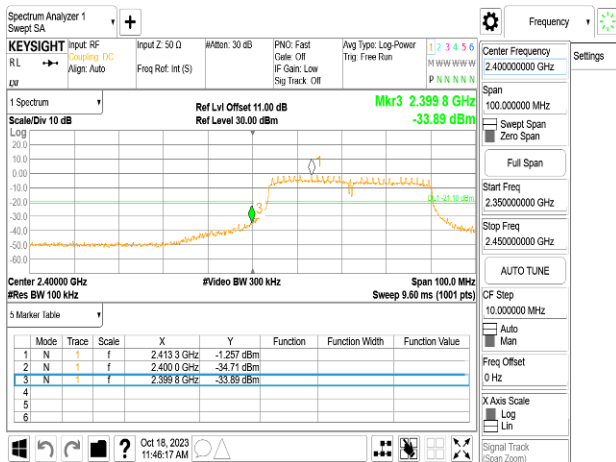
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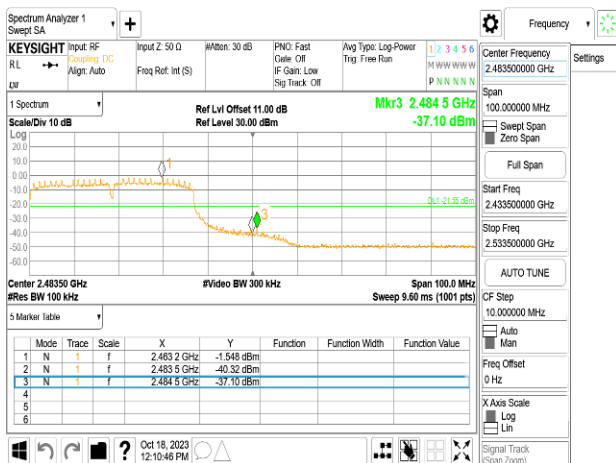
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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain0_2452MHz



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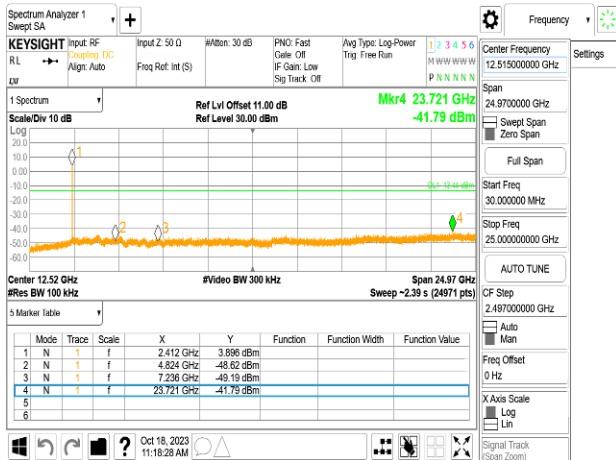
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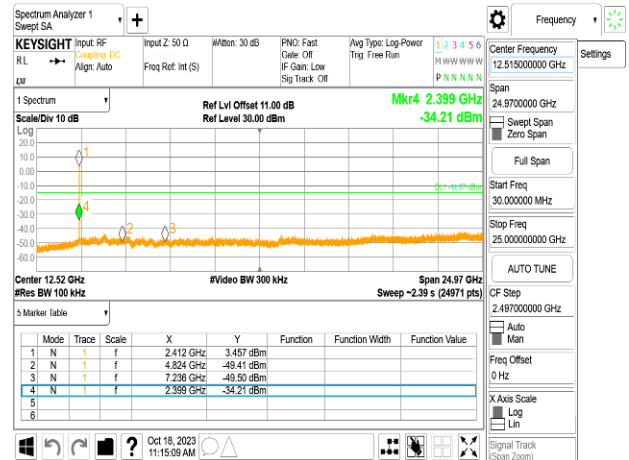
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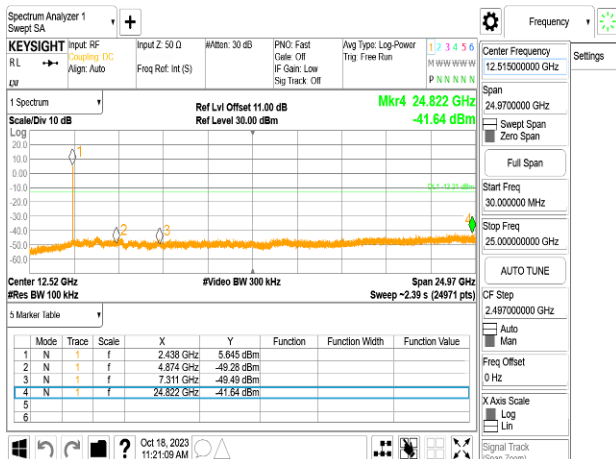
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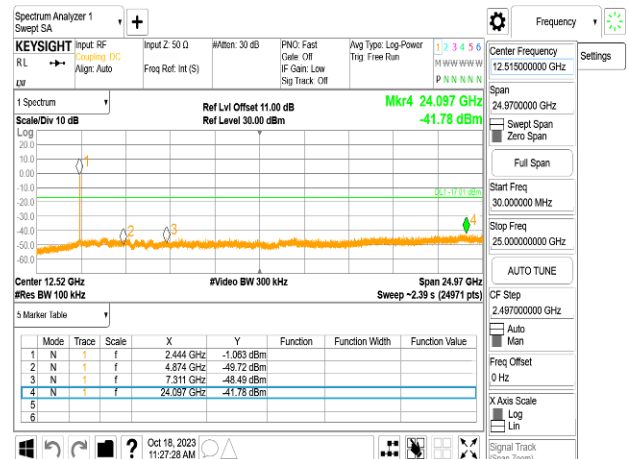
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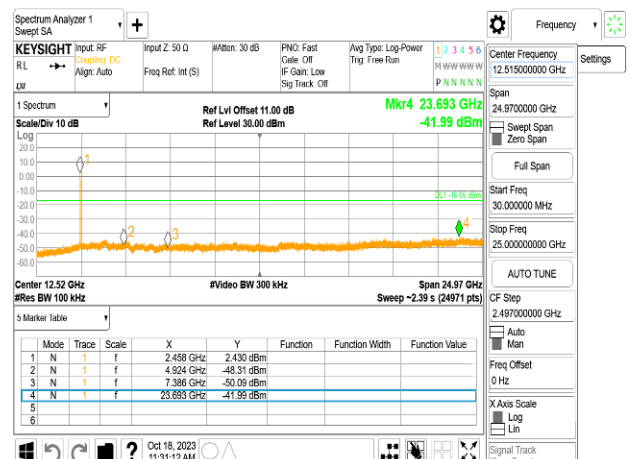
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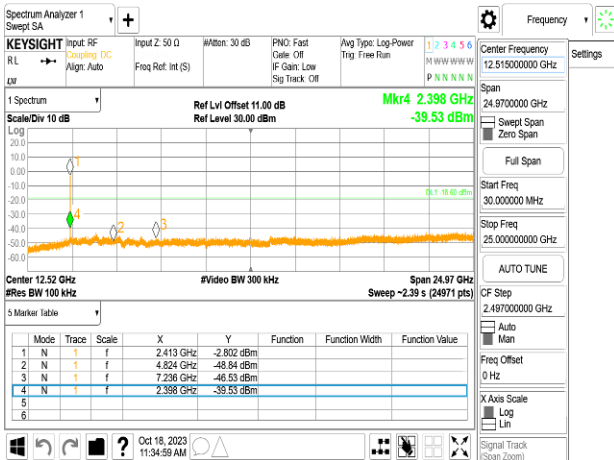


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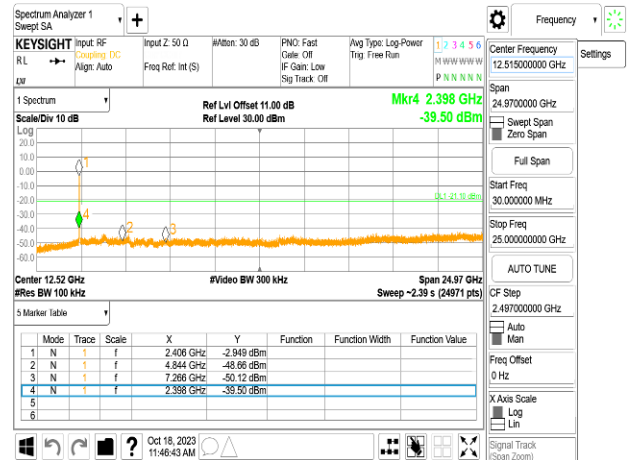
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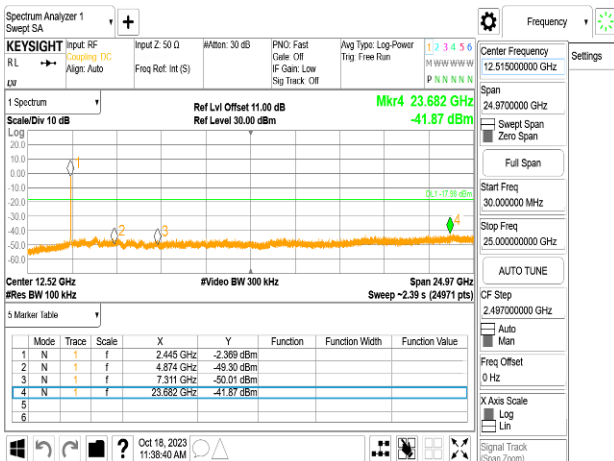
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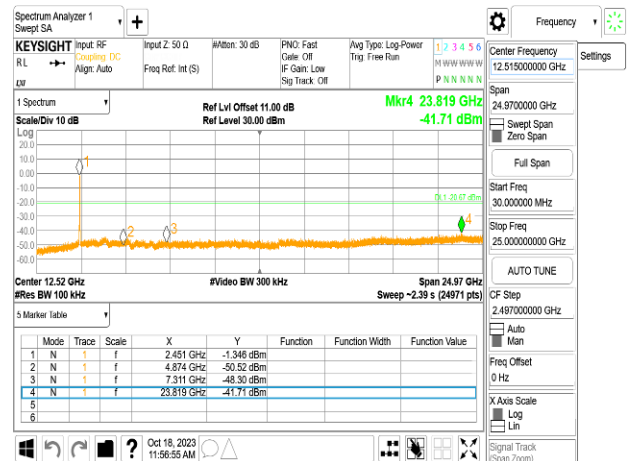
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802.11n_20MHz_Chain0_2437MHz



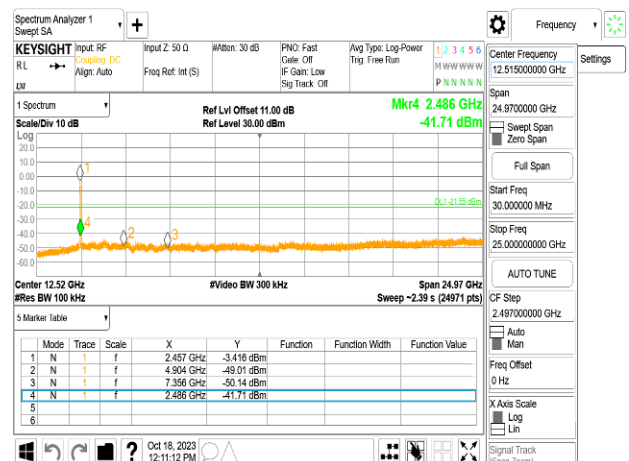
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

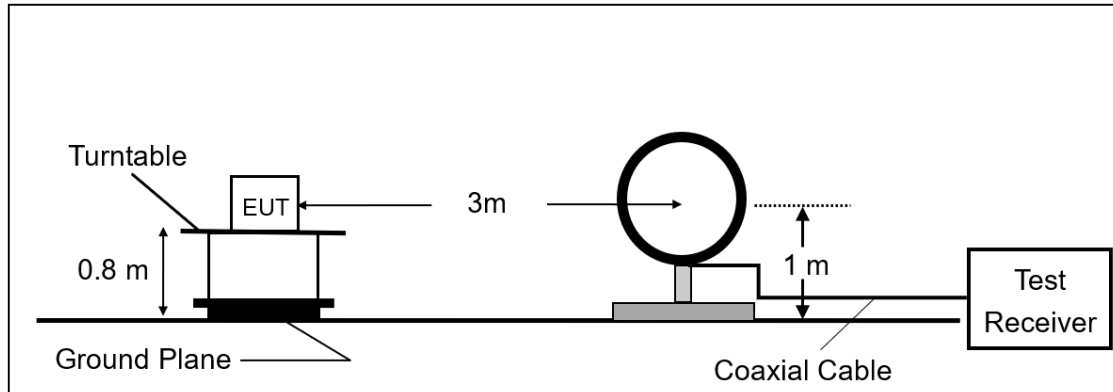
Note: The lower limit shall apply at the transition frequencies.

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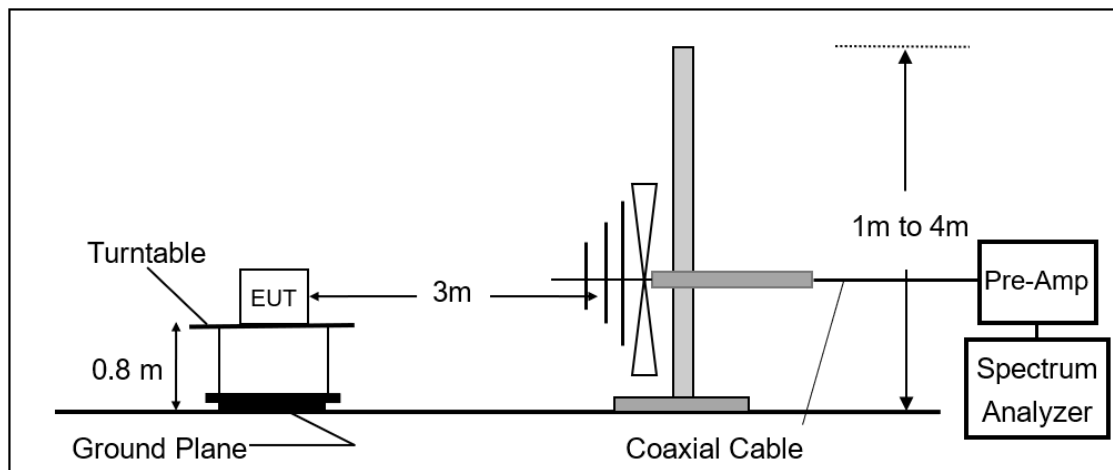
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10.2 Test Setup

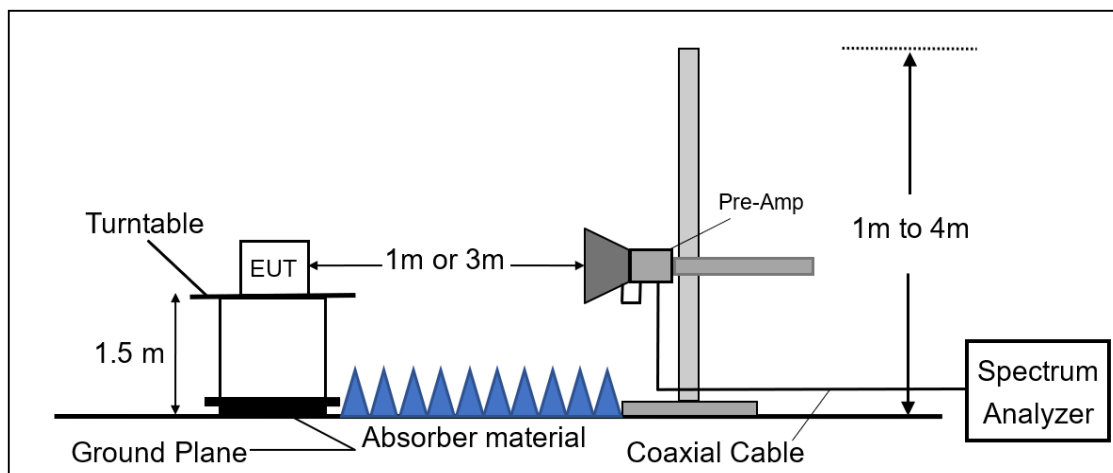
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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10.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

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10.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

10.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

10.6 Measurement Result

Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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10.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-09-27

Test Frequency :2412 MHz

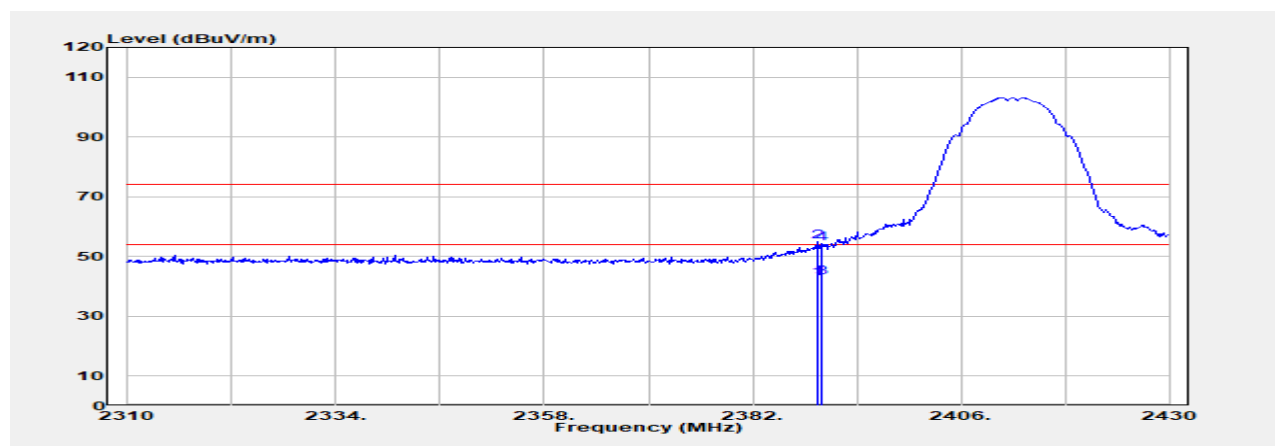
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2389.440 | Average | 46.21 | -3.51 | 42.71 | 54.00 | -11.29 |
| 2389.440 | Peak | 58.39 | -3.51 | 54.88 | 74.00 | -19.12 |
| 2390.000 | Average | 46.58 | -3.51 | 43.07 | 54.00 | -10.93 |
| 2390.000 | Peak | 57.70 | -3.51 | 54.20 | 74.00 | -19.80 |

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Report Number :TERF2309002386E2

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :H Plane

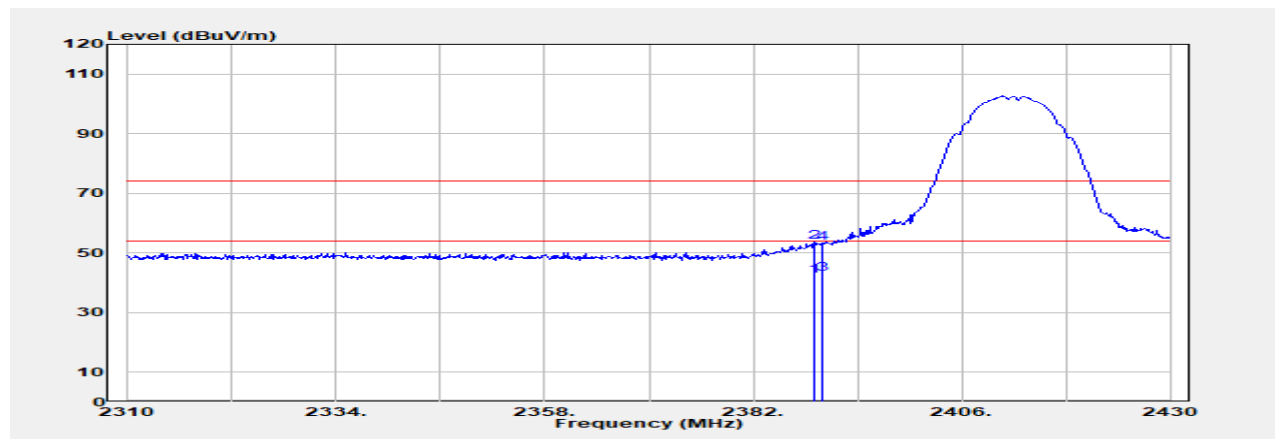
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Horizontal

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2388.960 | Average | 45.72 | -3.50 | 42.22 | 54.00 | -11.78 |
| 2388.960 | Peak | 57.20 | -3.50 | 53.70 | 74.00 | -20.30 |
| 2390.000 | Average | 46.30 | -3.51 | 42.79 | 54.00 | -11.21 |
| 2390.000 | Peak | 56.68 | -3.51 | 53.18 | 74.00 | -20.82 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-09-27

Test Frequency :2462 MHz

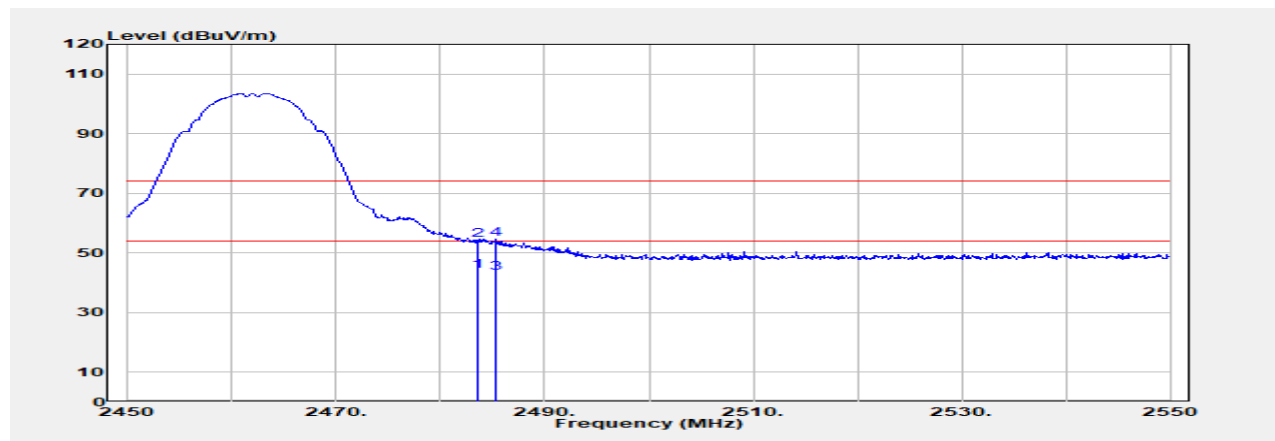
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.500 | Average | 47.31 | -3.54 | 43.77 | 54.00 | -10.23 |
| 2483.500 | Peak | 57.71 | -3.54 | 54.17 | 74.00 | -19.83 |
| 2485.300 | Average | 46.76 | -3.54 | 43.22 | 54.00 | -10.78 |
| 2485.300 | Peak | 58.28 | -3.54 | 54.74 | 74.00 | -19.26 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-09-27

Test Frequency :2462 MHz

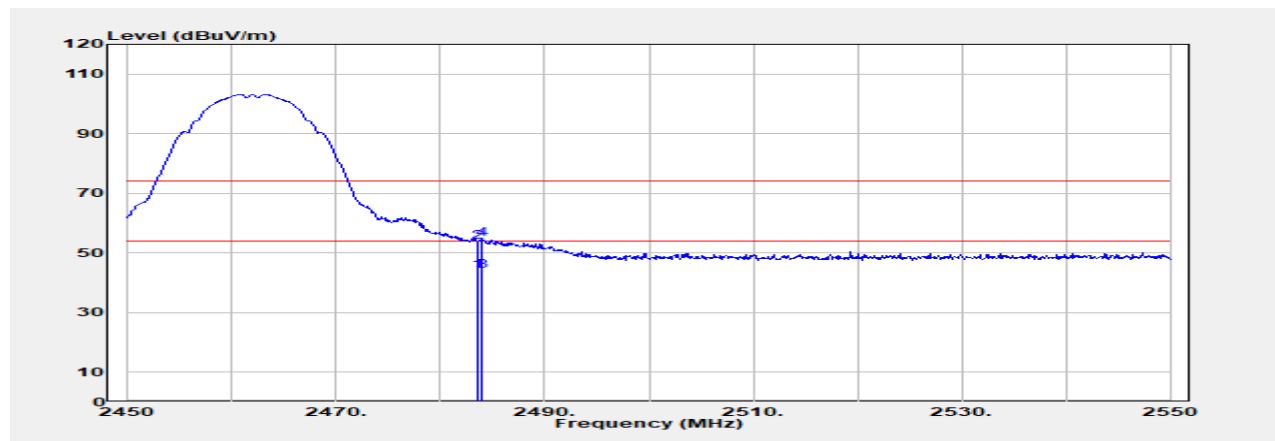
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.500 | Average | 47.37 | -3.54 | 43.83 | 54.00 | -10.17 |
| 2483.500 | Peak | 57.11 | -3.54 | 53.56 | 74.00 | -20.44 |
| 2483.900 | Average | 47.42 | -3.54 | 43.88 | 54.00 | -10.12 |
| 2483.900 | Peak | 58.16 | -3.54 | 54.62 | 74.00 | -19.38 |

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Report Number :TERF2309002386E2

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :H Plane

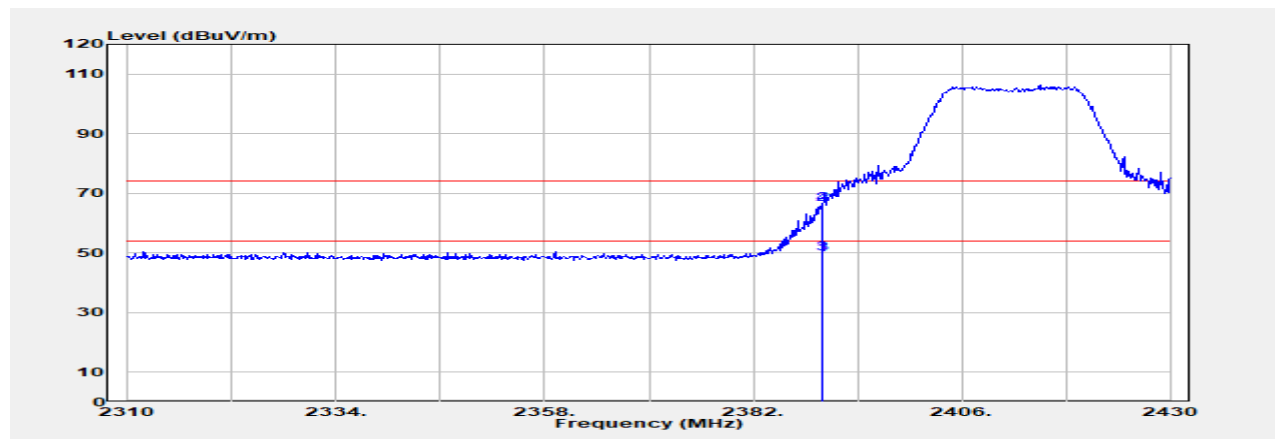
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2389.920 | Average | 52.89 | -3.51 | 49.38 | 54.00 | -4.62 |
| 2389.920 | Peak | 69.94 | -3.51 | 66.43 | 74.00 | -7.57 |
| 2390.000 | Average | 53.36 | -3.51 | 49.85 | 54.00 | -4.15 |
| 2390.000 | Peak | 69.98 | -3.51 | 66.47 | 74.00 | -7.53 |

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Report Number :TERF2309002386E2

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :H Plane

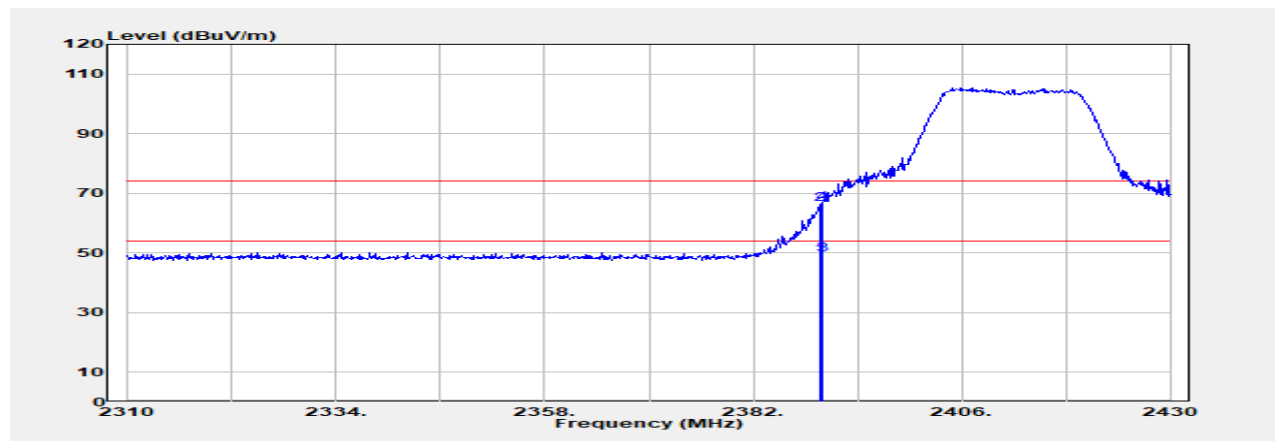
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Horizontal

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2389.800 | Average | 52.51 | -3.51 | 49.00 | 54.00 | -5.00 |
| 2389.800 | Peak | 69.87 | -3.51 | 66.36 | 74.00 | -7.64 |
| 2390.000 | Average | 53.05 | -3.51 | 49.54 | 54.00 | -4.46 |
| 2390.000 | Peak | 70.15 | -3.51 | 66.64 | 74.00 | -7.36 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-09-27

Test Frequency :2462 MHz

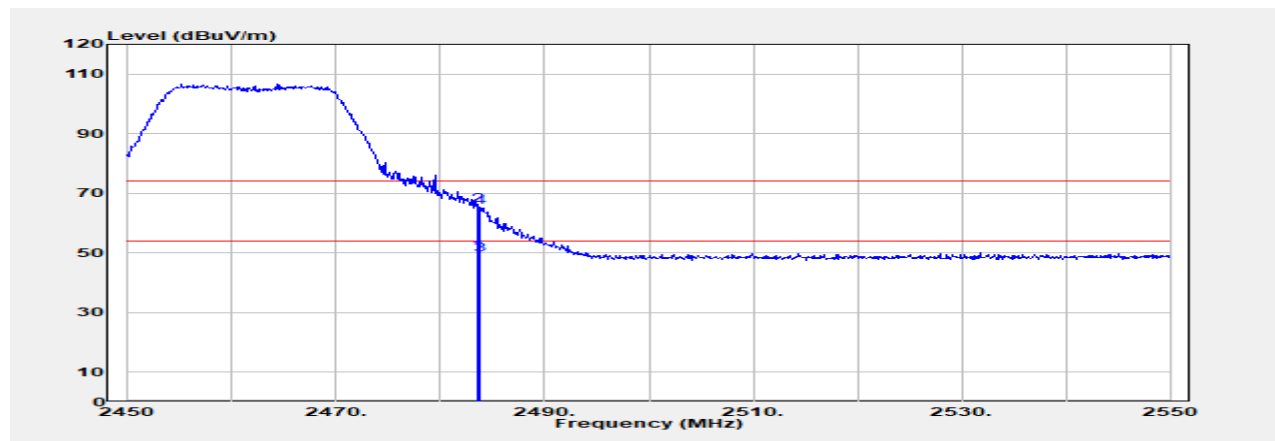
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.500 | Average | 53.86 | -3.54 | 50.32 | 54.00 | -3.68 |
| 2483.500 | Peak | 69.70 | -3.54 | 66.16 | 74.00 | -7.84 |
| 2483.800 | Average | 53.13 | -3.54 | 49.59 | 54.00 | -4.41 |
| 2483.800 | Peak | 69.03 | -3.54 | 65.48 | 74.00 | -8.52 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-09-27

Test Frequency :2462 MHz

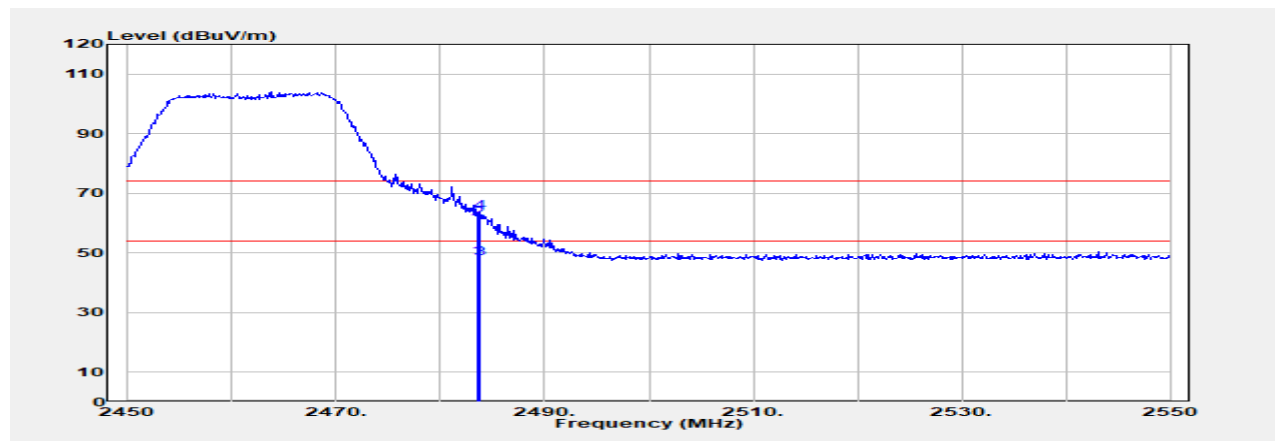
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.500 | Average | 52.01 | -3.54 | 48.47 | 54.00 | -5.53 |
| 2483.500 | Peak | 65.11 | -3.54 | 61.57 | 74.00 | -12.43 |
| 2483.800 | Average | 51.61 | -3.54 | 48.06 | 54.00 | -5.94 |
| 2483.800 | Peak | 67.19 | -3.54 | 63.65 | 74.00 | -10.35 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :H Plane

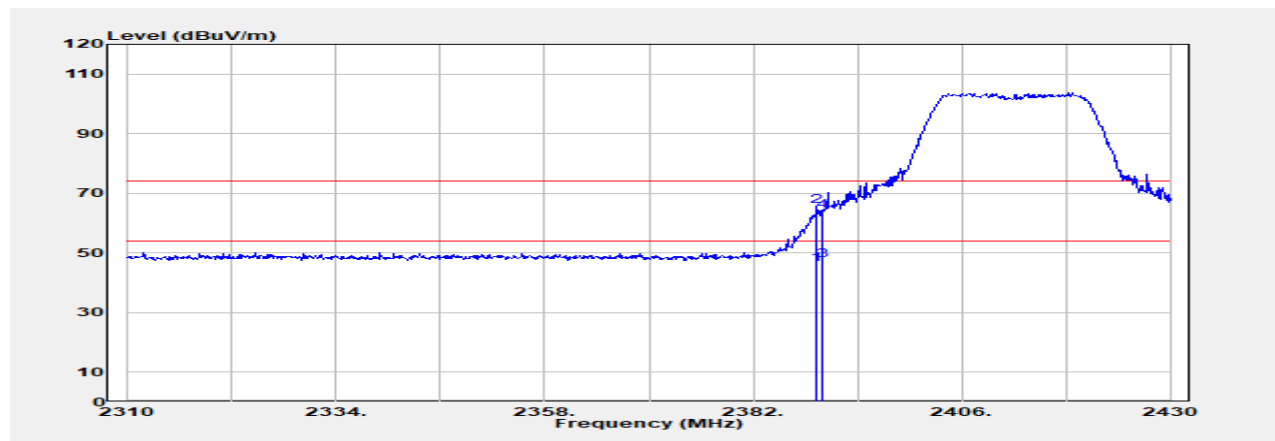
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------------|----------|--------|--------|--------|--------|
| Mode | Reading Level | | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2389.320 | Average | 49.84 | -3.51 | 46.33 | 54.00 | -7.67 |
| 2389.320 | Peak | 69.27 | -3.51 | 65.76 | 74.00 | -8.24 |
| 2390.000 | Average | 50.95 | -3.51 | 47.44 | 54.00 | -6.56 |
| 2390.000 | Peak | 67.68 | -3.51 | 64.17 | 74.00 | -9.83 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :H Plane

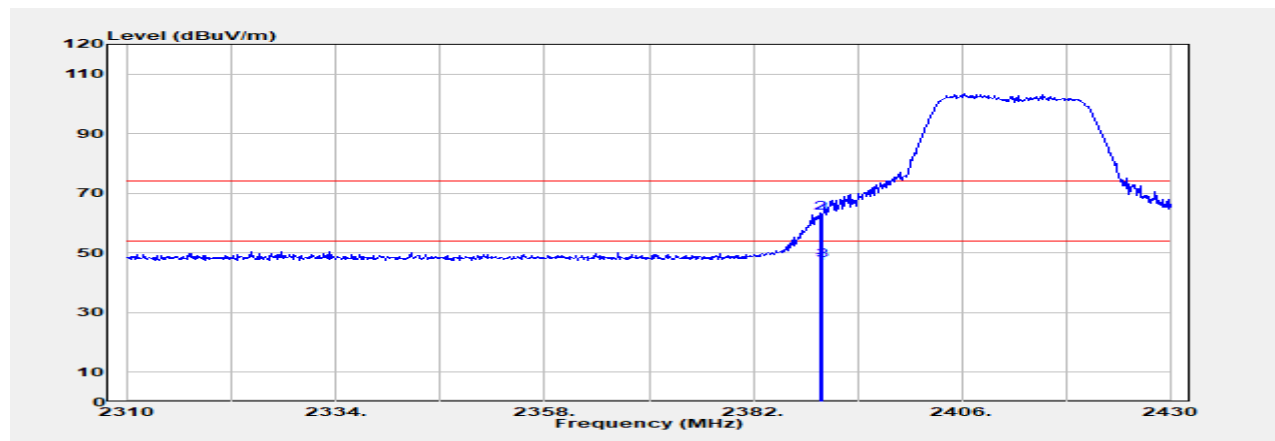
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Horizontal

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2389.800 | Average | 50.09 | -3.51 | 46.58 | 54.00 | -7.42 |
| 2389.800 | Peak | 66.90 | -3.51 | 63.39 | 74.00 | -10.61 |
| 2390.000 | Average | 50.96 | -3.51 | 47.45 | 54.00 | -6.55 |
| 2390.000 | Peak | 66.39 | -3.51 | 62.88 | 74.00 | -11.12 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-09-27

Test Frequency :2462 MHz

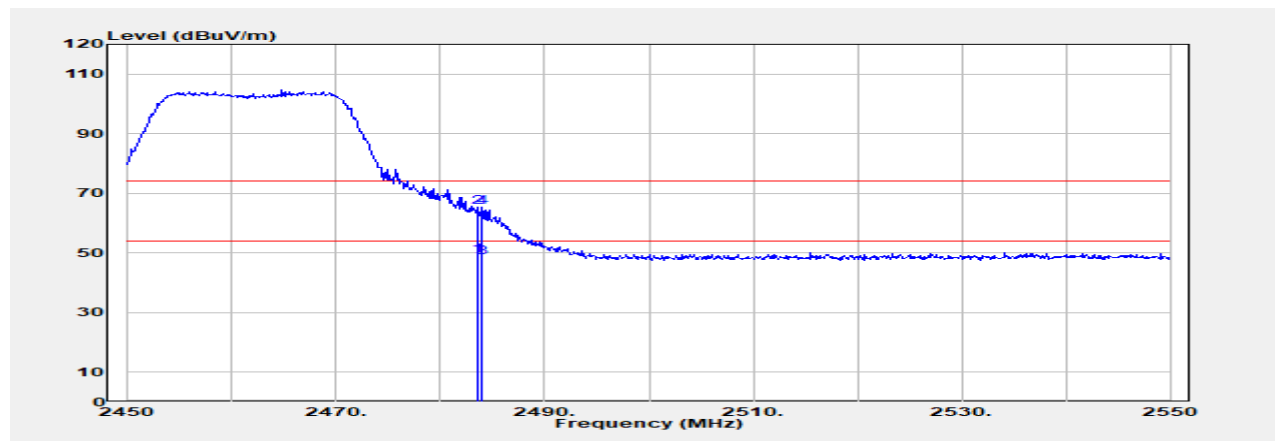
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.500 | Average | 52.68 | -3.54 | 49.14 | 54.00 | -4.86 |
| 2483.500 | Peak | 68.88 | -3.54 | 65.34 | 74.00 | -8.66 |
| 2484.000 | Average | 51.99 | -3.54 | 48.45 | 54.00 | -5.55 |
| 2484.000 | Peak | 69.02 | -3.54 | 65.47 | 74.00 | -8.53 |

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Member of SGS Group

Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-09-27

Test Frequency :2462 MHz

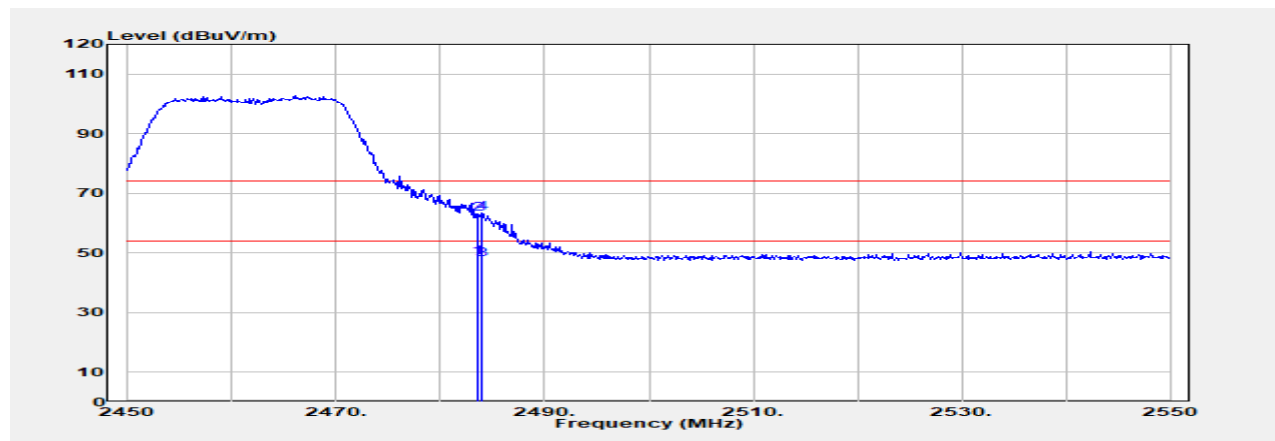
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.500 | Average | 52.03 | -3.54 | 48.48 | 54.00 | -5.52 |
| 2483.500 | Peak | 66.61 | -3.54 | 63.07 | 74.00 | -10.93 |
| 2484.000 | Average | 51.25 | -3.54 | 47.71 | 54.00 | -6.29 |
| 2484.000 | Peak | 66.92 | -3.54 | 63.38 | 74.00 | -10.62 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-09-27

Test Frequency :2422 MHz

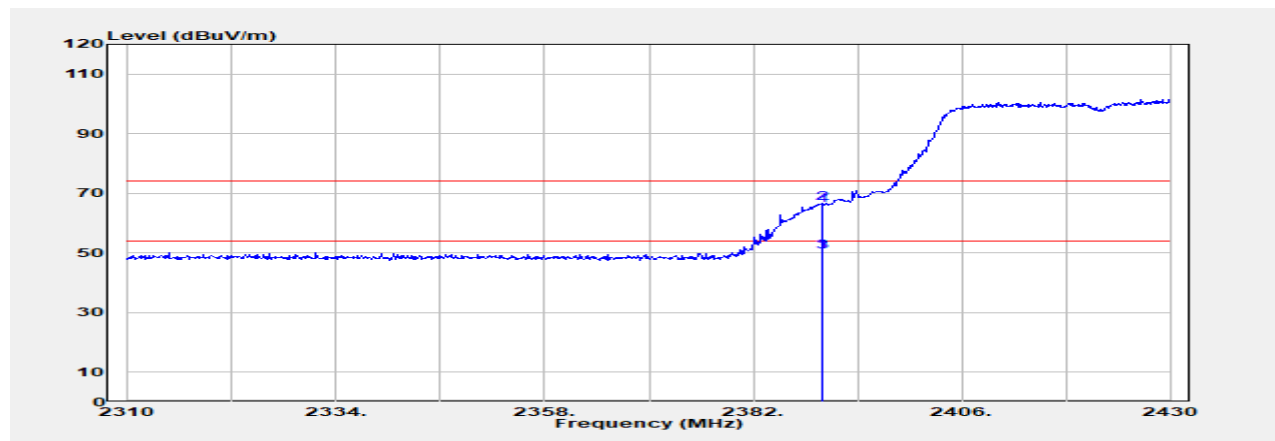
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------------|----------|--------|--------|--------|--------|
| Mode | Reading Level | | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2389.920 | Average | 54.01 | -3.51 | 50.50 | 54.00 | -3.50 |
| 2389.920 | Peak | 70.20 | -3.51 | 66.69 | 74.00 | -7.31 |
| 2390.000 | Average | 53.81 | -3.51 | 50.30 | 54.00 | -3.70 |
| 2390.000 | Peak | 69.60 | -3.51 | 66.09 | 74.00 | -7.91 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-09-27

Test Frequency :2422 MHz

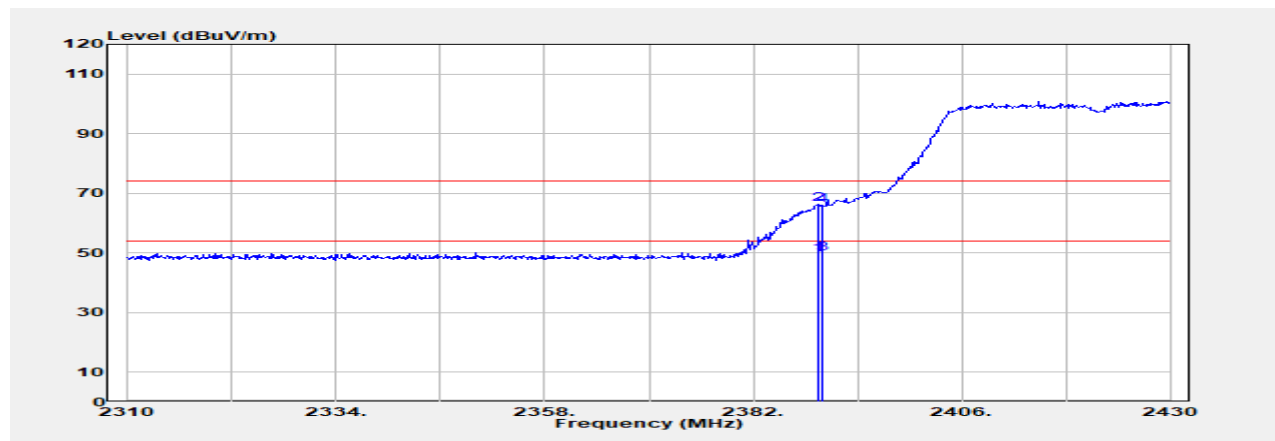
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2389.560 | Average | 53.02 | -3.51 | 49.51 | 54.00 | -4.49 |
| 2389.560 | Peak | 69.69 | -3.51 | 66.18 | 74.00 | -7.82 |
| 2390.000 | Average | 53.30 | -3.51 | 49.79 | 54.00 | -4.21 |
| 2390.000 | Peak | 69.62 | -3.51 | 66.11 | 74.00 | -7.89 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-09-27

Test Frequency :2452 MHz

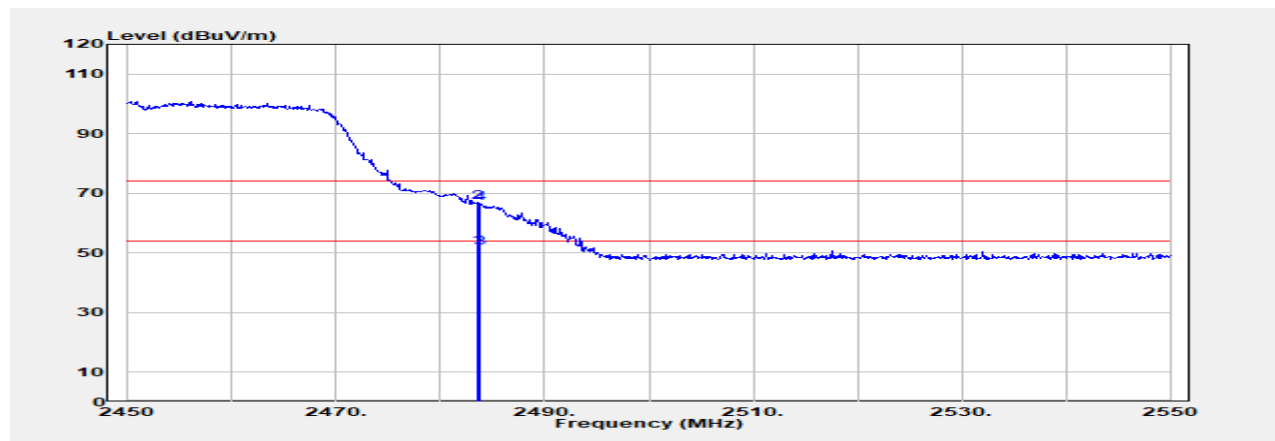
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.500 | Average | 55.44 | -3.54 | 51.89 | 54.00 | -2.11 |
| 2483.500 | Peak | 70.44 | -3.54 | 66.90 | 74.00 | -7.10 |
| 2483.700 | Average | 55.22 | -3.54 | 51.68 | 54.00 | -2.32 |
| 2483.700 | Peak | 70.21 | -3.54 | 66.67 | 74.00 | -7.33 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-09-27

Test Frequency :2452 MHz

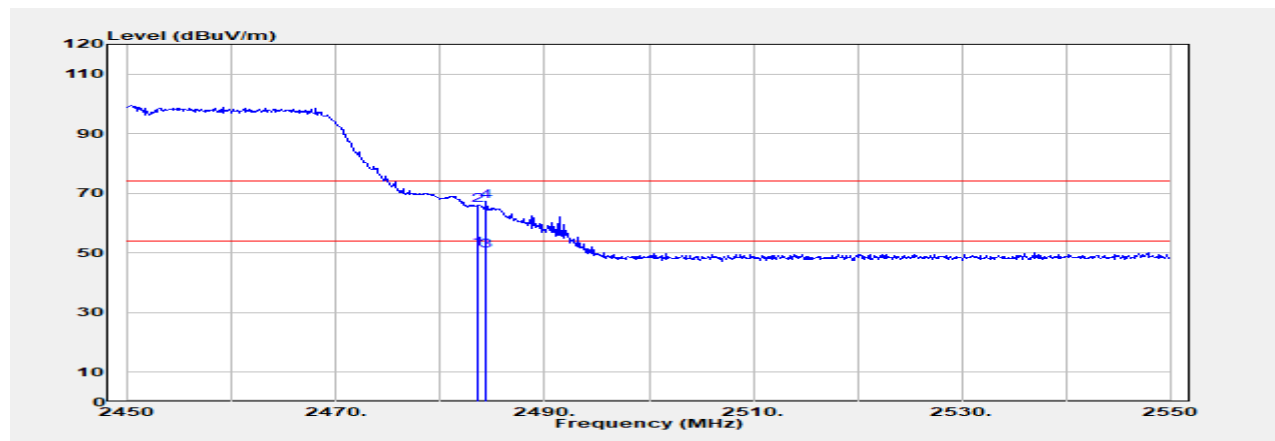
Temp./Humi. :22.2°C/60%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.500 | Average | 54.87 | -3.54 | 51.33 | 54.00 | -2.67 |
| 2483.500 | Peak | 69.55 | -3.54 | 66.01 | 74.00 | -7.99 |
| 2484.400 | Average | 54.13 | -3.54 | 50.59 | 54.00 | -3.41 |
| 2484.400 | Peak | 70.91 | -3.54 | 67.36 | 74.00 | -6.64 |

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10.6.2 Spurious Emission:

Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-10-02

Test Frequency :2437 MHz

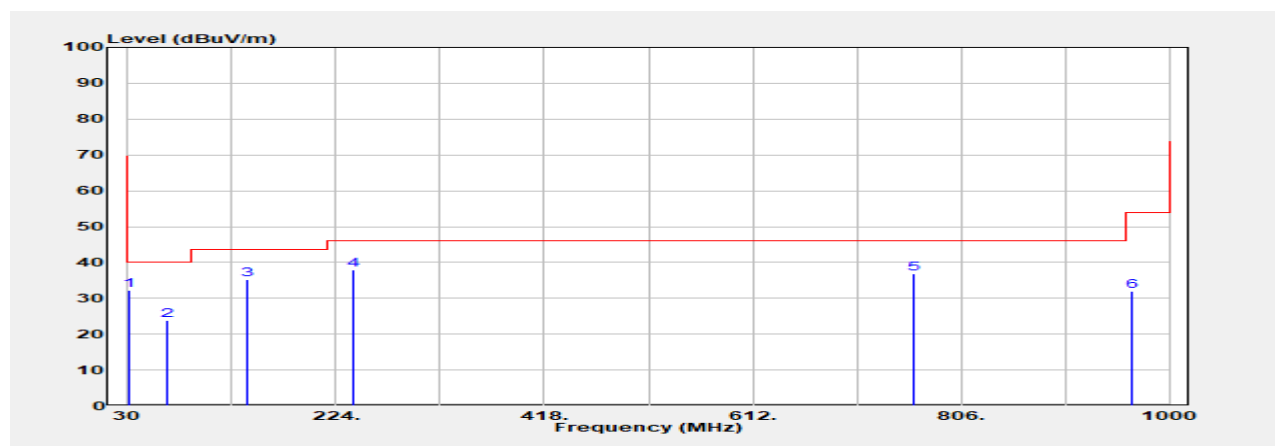
Temp./Humi. :23.6°C/60%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|-----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 31.940 | QP | 46.50 | -14.31 | 32.19 | 40.00 | -7.81 |
| 65.890 | QP | 38.20 | -14.38 | 23.82 | 40.00 | -16.18 |
| 141.550 | QP | 48.40 | -13.30 | 35.10 | 43.50 | -8.40 |
| 240.490 | QP | 51.90 | -14.07 | 37.83 | 46.00 | -8.17 |
| 762.350 | Peak | 38.80 | -1.88 | 36.92 | 46.00 | -9.08 |
| 965.080 | Peak | 31.04 | 0.88 | 31.92 | 54.00 | -22.08 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-10-02

Test Frequency :2437 MHz

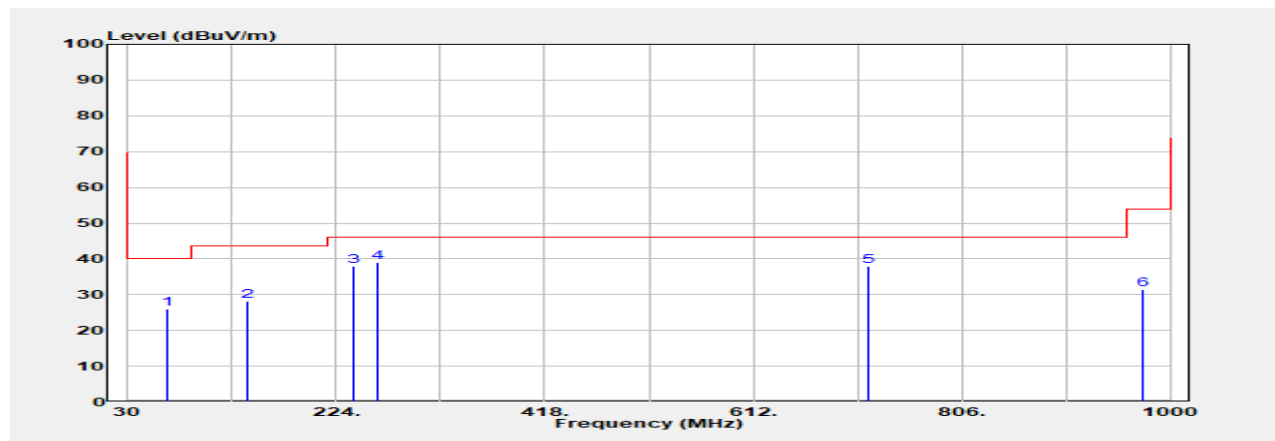
Temp./Humi. :23.6°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|-----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 66.860 | Peak | 40.26 | -14.32 | 25.94 | 40.00 | -14.06 |
| 140.580 | QP | 41.70 | -13.41 | 28.29 | 43.50 | -15.21 |
| 240.490 | QP | 52.00 | -14.07 | 37.93 | 46.00 | -8.07 |
| 262.800 | Peak | 52.37 | -13.22 | 39.15 | 46.00 | -6.85 |
| 719.670 | Peak | 41.23 | -3.39 | 37.84 | 46.00 | -8.16 |
| 973.810 | Peak | 30.61 | 0.92 | 31.53 | 54.00 | -22.47 |

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Report Number :TERF2309002386E2

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :H Plane

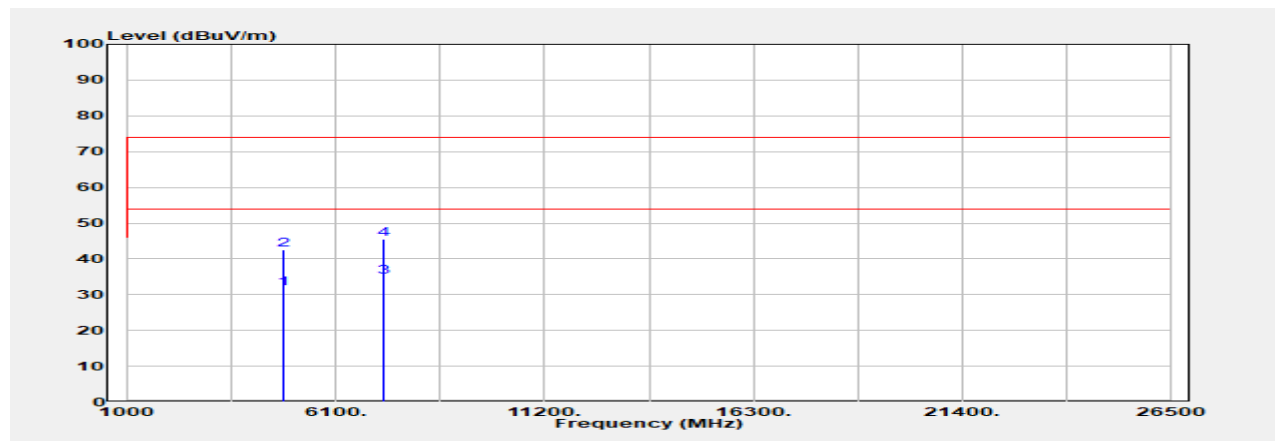
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.000 | Average | 28.54 | 3.28 | 31.83 | 54.00 | -22.17 |
| 4824.000 | Peak | 39.19 | 3.28 | 42.47 | 74.00 | -31.53 |
| 7236.000 | Average | 26.55 | 8.54 | 35.08 | 54.00 | -18.92 |
| 7236.000 | Peak | 37.06 | 8.54 | 45.59 | 74.00 | -28.41 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-09-27

Test Frequency :2412 MHz

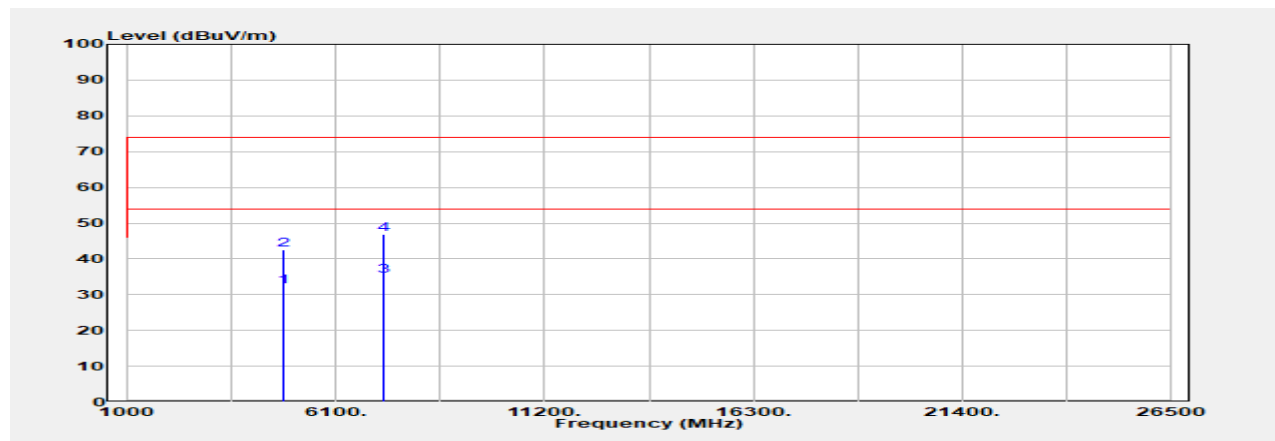
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4824.000 | Average | 29.01 | 3.28 | 32.29 | 54.00 | -21.71 |
| 4824.000 | Peak | 39.29 | 3.28 | 42.58 | 74.00 | -31.42 |
| 7236.000 | Average | 26.68 | 8.54 | 35.21 | 54.00 | -18.79 |
| 7236.000 | Peak | 38.29 | 8.54 | 46.83 | 74.00 | -27.17 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-09-27

Test Frequency :2437 MHz

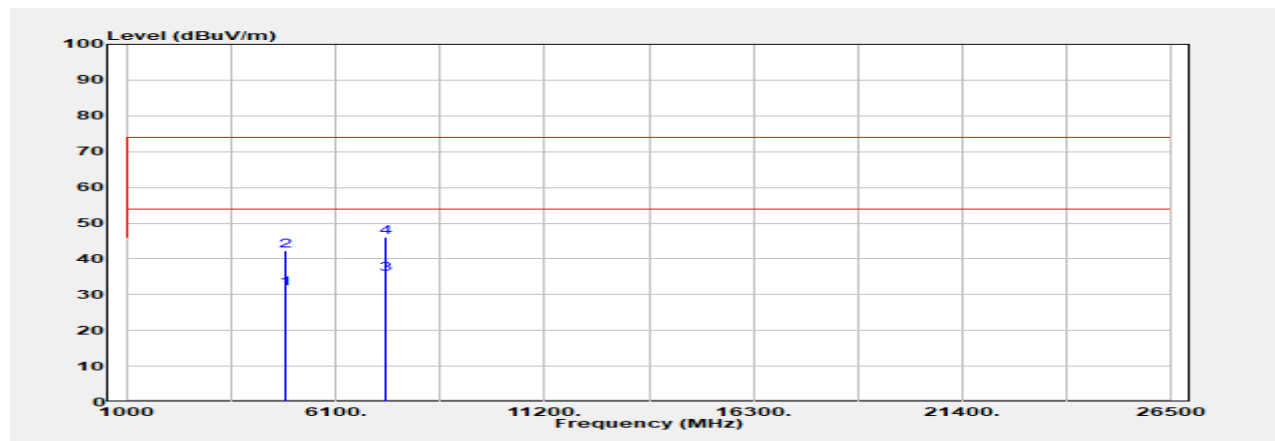
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.000 | Average | 28.41 | 3.35 | 31.76 | 54.00 | -22.24 |
| 4874.000 | Peak | 38.92 | 3.35 | 42.28 | 74.00 | -31.72 |
| 7311.000 | Average | 27.17 | 8.58 | 35.75 | 54.00 | -18.25 |
| 7311.000 | Peak | 37.60 | 8.58 | 46.18 | 74.00 | -27.82 |

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Member of SGS Group

Report Number :TERF2309002386E2

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :H Plane

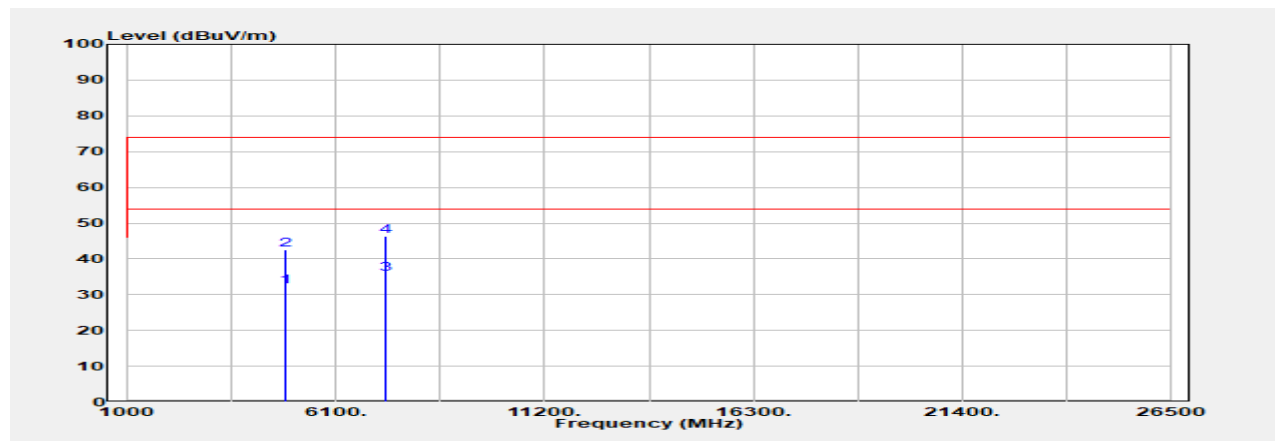
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Horizontal

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.000 | Average | 28.88 | 3.35 | 32.23 | 54.00 | -21.77 |
| 4874.000 | Peak | 39.32 | 3.35 | 42.67 | 74.00 | -31.33 |
| 7311.000 | Average | 27.07 | 8.58 | 35.65 | 54.00 | -18.35 |
| 7311.000 | Peak | 37.75 | 8.58 | 46.33 | 74.00 | -27.67 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-09-27

Test Frequency :2462 MHz

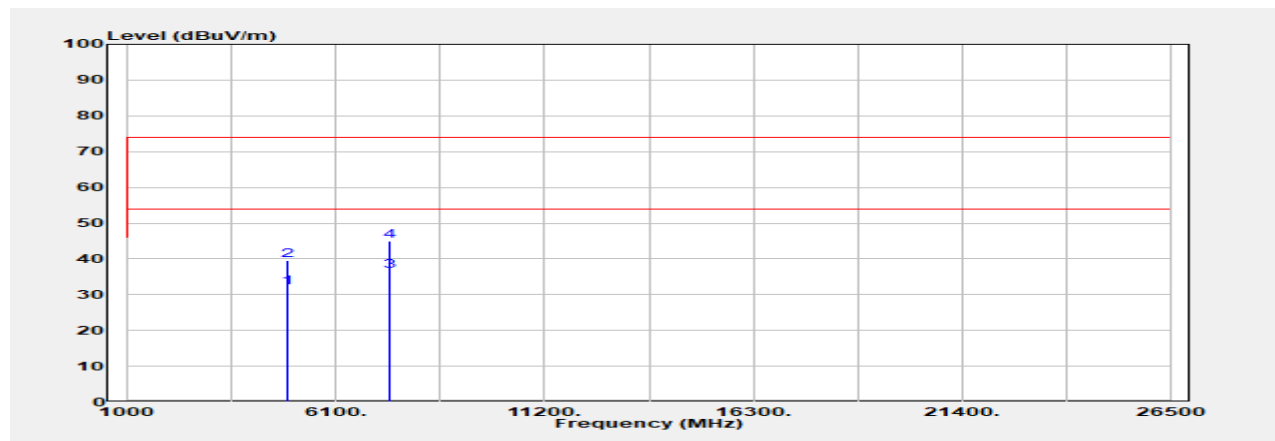
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.000 | Average | 28.44 | 3.46 | 31.90 | 54.00 | -22.10 |
| 4924.000 | Peak | 36.08 | 3.46 | 39.55 | 74.00 | -34.45 |
| 7386.000 | Average | 27.54 | 9.03 | 36.57 | 54.00 | -17.43 |
| 7386.000 | Peak | 36.04 | 9.03 | 45.07 | 74.00 | -28.93 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-09-27

Test Frequency :2462 MHz

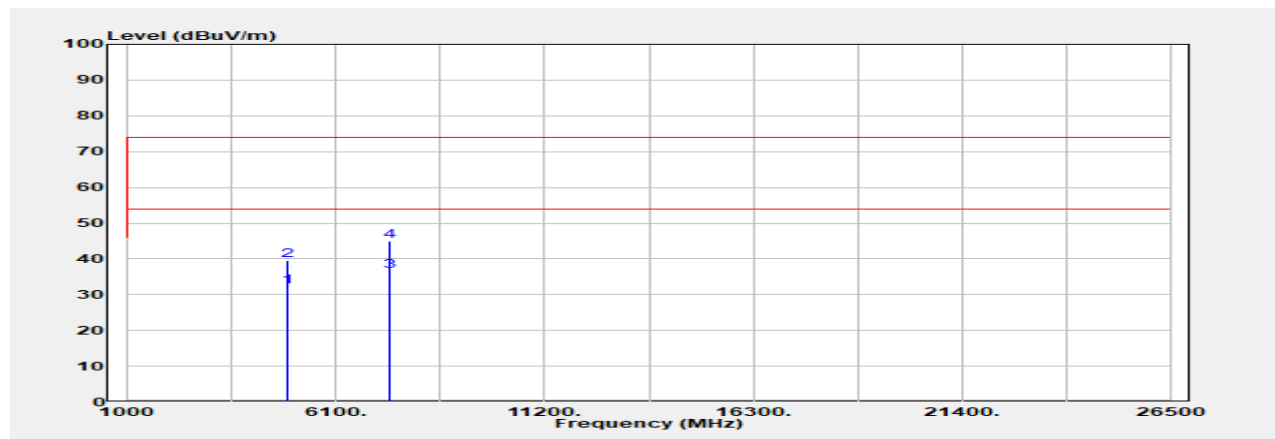
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------------|----------|--------|--------|--------|--------|
| Mode | Reading Level | | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4924.000 | Average | 28.69 | 3.46 | 32.15 | 54.00 | -21.85 |
| 4924.000 | Peak | 36.09 | 3.46 | 39.56 | 74.00 | -34.44 |
| 7386.000 | Average | 27.48 | 9.03 | 36.51 | 54.00 | -17.49 |
| 7386.000 | Peak | 35.97 | 9.03 | 45.00 | 74.00 | -29.00 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-09-27

Test Frequency :2412 MHz

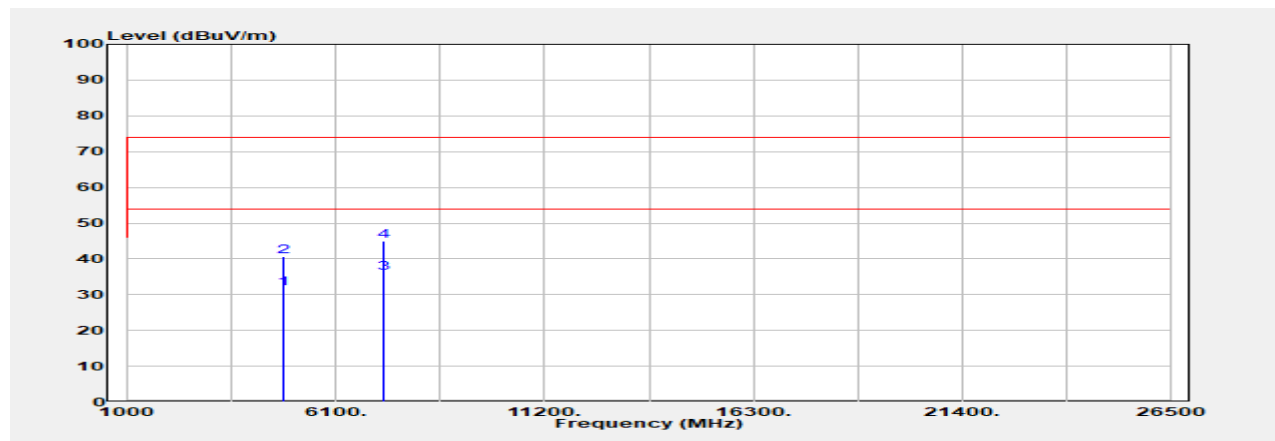
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------------|----------|--------|--------|--------|--------|
| Mode | Reading Level | FS | @3m | | | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4824.000 | Average | 28.44 | 3.28 | 31.72 | 54.00 | -22.28 |
| 4824.000 | Peak | 37.42 | 3.28 | 40.71 | 74.00 | -33.29 |
| 7236.000 | Average | 27.58 | 8.54 | 36.12 | 54.00 | -17.88 |
| 7236.000 | Peak | 36.51 | 8.54 | 45.04 | 74.00 | -28.96 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-09-27

Test Frequency :2412 MHz

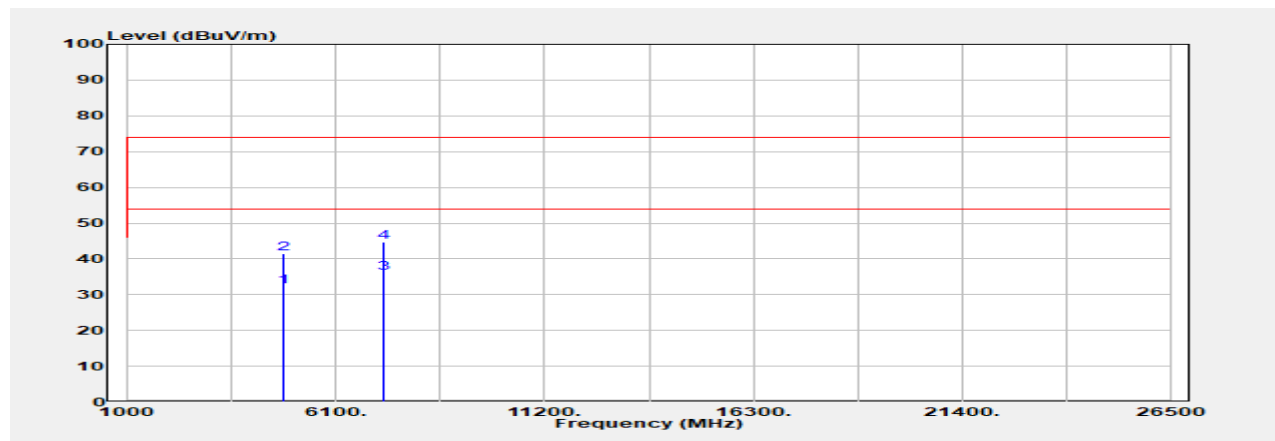
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.000 | Average | 28.96 | 3.28 | 32.24 | 54.00 | -21.76 |
| 4824.000 | Peak | 38.12 | 3.28 | 41.40 | 74.00 | -32.60 |
| 7236.000 | Average | 27.62 | 8.54 | 36.16 | 54.00 | -17.84 |
| 7236.000 | Peak | 36.22 | 8.54 | 44.76 | 74.00 | -29.24 |

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Report Number :TERF2309002386E2

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :H Plane

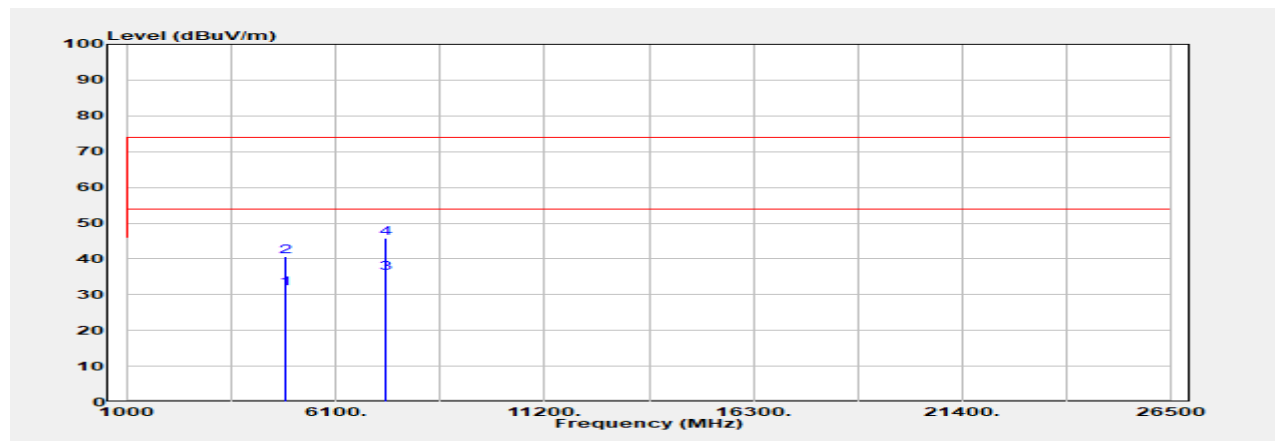
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.000 | Average | 28.42 | 3.35 | 31.77 | 54.00 | -22.23 |
| 4874.000 | Peak | 37.35 | 3.35 | 40.71 | 74.00 | -33.29 |
| 7311.000 | Average | 27.35 | 8.58 | 35.93 | 54.00 | -18.07 |
| 7311.000 | Peak | 37.27 | 8.58 | 45.84 | 74.00 | -28.16 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-09-27

Test Frequency :2437 MHz

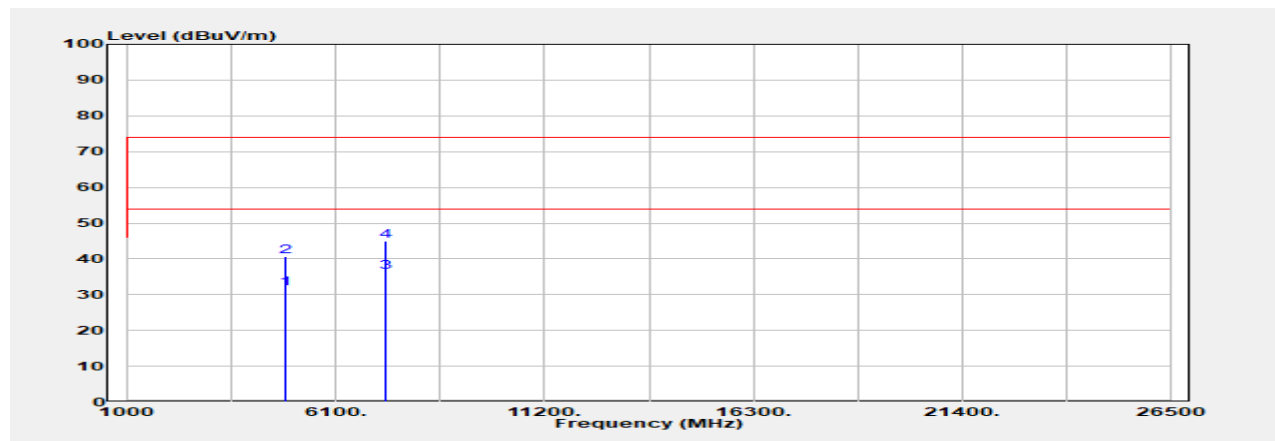
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.000 | Average | 28.36 | 3.35 | 31.71 | 54.00 | -22.29 |
| 4874.000 | Peak | 37.21 | 3.35 | 40.56 | 74.00 | -33.44 |
| 7311.000 | Average | 27.81 | 8.58 | 36.39 | 54.00 | -17.61 |
| 7311.000 | Peak | 36.50 | 8.58 | 45.08 | 74.00 | -28.92 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-09-27

Test Frequency :2462 MHz

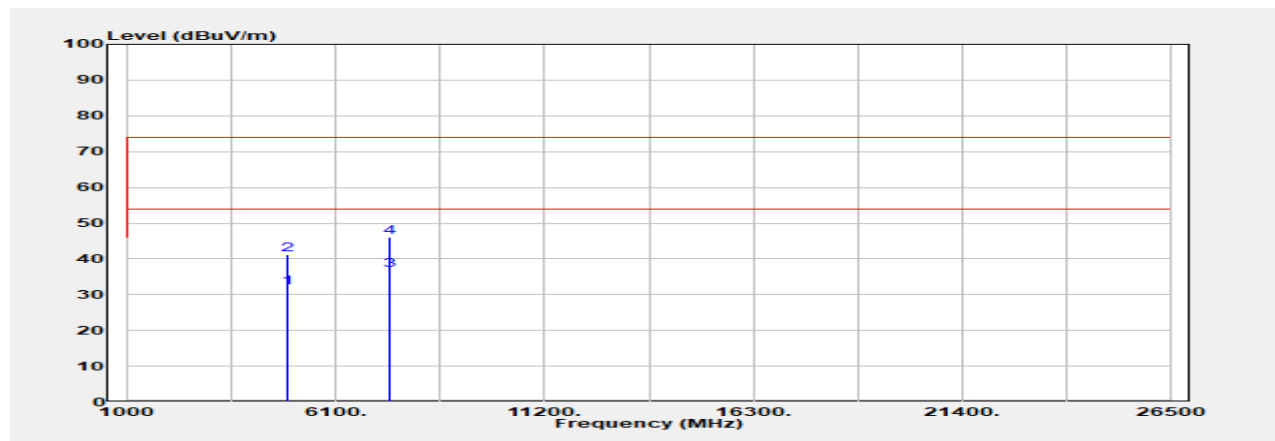
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4924.000 | Average | 28.44 | 3.46 | 31.90 | 54.00 | -22.10 |
| 4924.000 | Peak | 37.60 | 3.46 | 41.07 | 74.00 | -32.93 |
| 7386.000 | Average | 27.72 | 9.03 | 36.75 | 54.00 | -17.25 |
| 7386.000 | Peak | 37.03 | 9.03 | 46.06 | 74.00 | -27.94 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-09-27

Test Frequency :2462 MHz

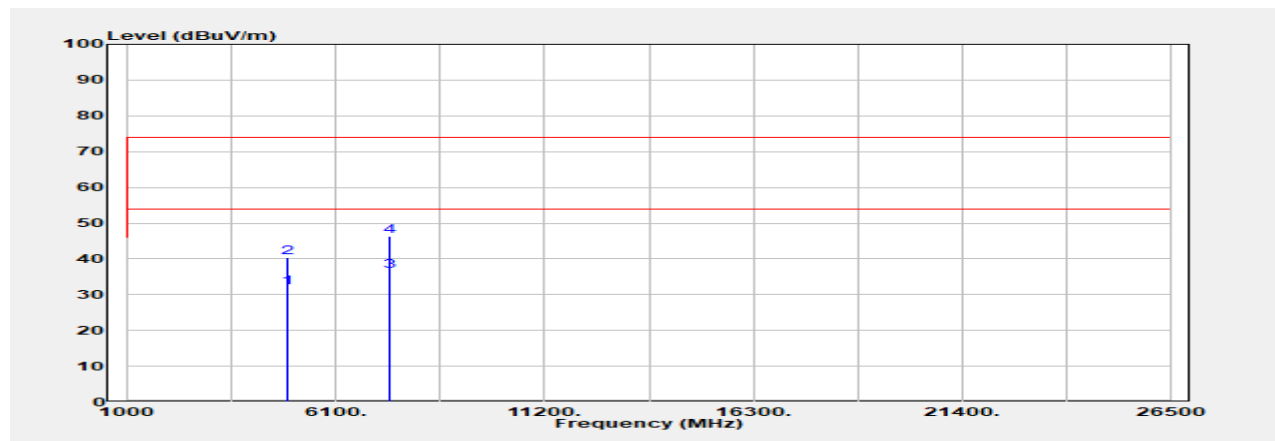
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.000 | Average | 28.47 | 3.46 | 31.93 | 54.00 | -22.07 |
| 4924.000 | Peak | 36.89 | 3.46 | 40.35 | 74.00 | -33.65 |
| 7386.000 | Average | 27.66 | 9.03 | 36.69 | 54.00 | -17.31 |
| 7386.000 | Peak | 37.38 | 9.03 | 46.41 | 74.00 | -27.59 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :H Plane

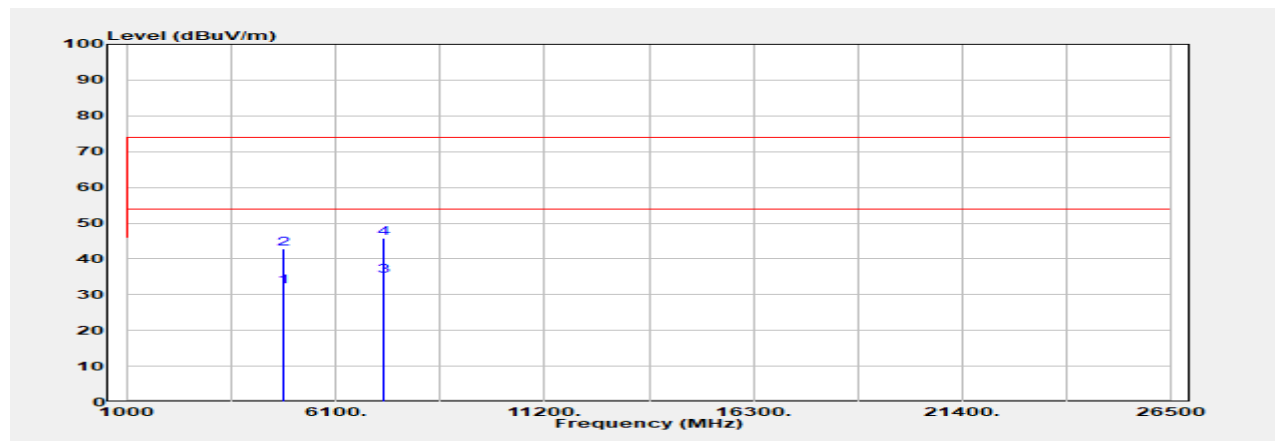
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4824.000 | Average | 29.02 | 3.28 | 32.30 | 54.00 | -21.70 |
| 4824.000 | Peak | 39.64 | 3.28 | 42.92 | 74.00 | -31.08 |
| 7236.000 | Average | 26.70 | 8.54 | 35.24 | 54.00 | -18.76 |
| 7236.000 | Peak | 37.23 | 8.54 | 45.77 | 74.00 | -28.23 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-09-27

Test Frequency :2412 MHz

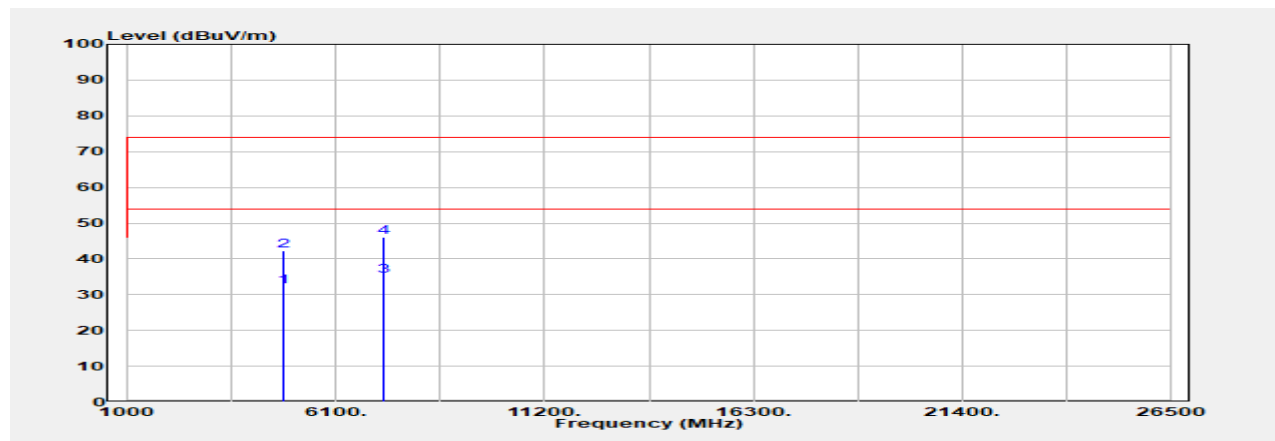
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.000 | Average | 28.89 | 3.28 | 32.17 | 54.00 | -21.83 |
| 4824.000 | Peak | 39.07 | 3.28 | 42.35 | 74.00 | -31.65 |
| 7236.000 | Average | 26.74 | 8.54 | 35.28 | 54.00 | -18.72 |
| 7236.000 | Peak | 37.40 | 8.54 | 45.94 | 74.00 | -28.06 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :H Plane

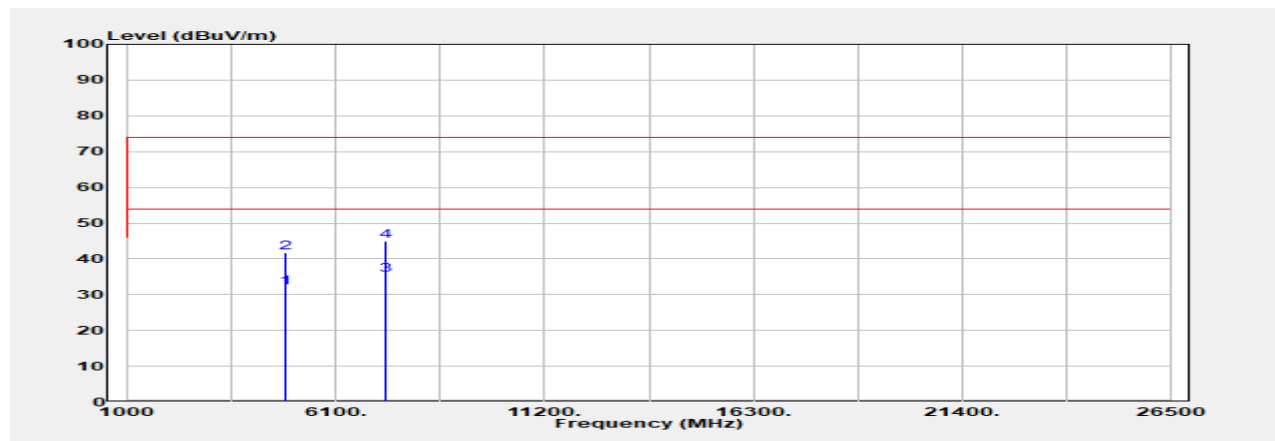
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| Mode | | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.000 | Average | 28.54 | 3.35 | 31.89 | 54.00 | -22.11 |
| 4874.000 | Peak | 38.41 | 3.35 | 41.77 | 74.00 | -32.23 |
| 7311.000 | Average | 26.96 | 8.58 | 35.54 | 54.00 | -18.46 |
| 7311.000 | Peak | 36.33 | 8.58 | 44.91 | 74.00 | -29.09 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-09-27

Test Frequency :2437 MHz

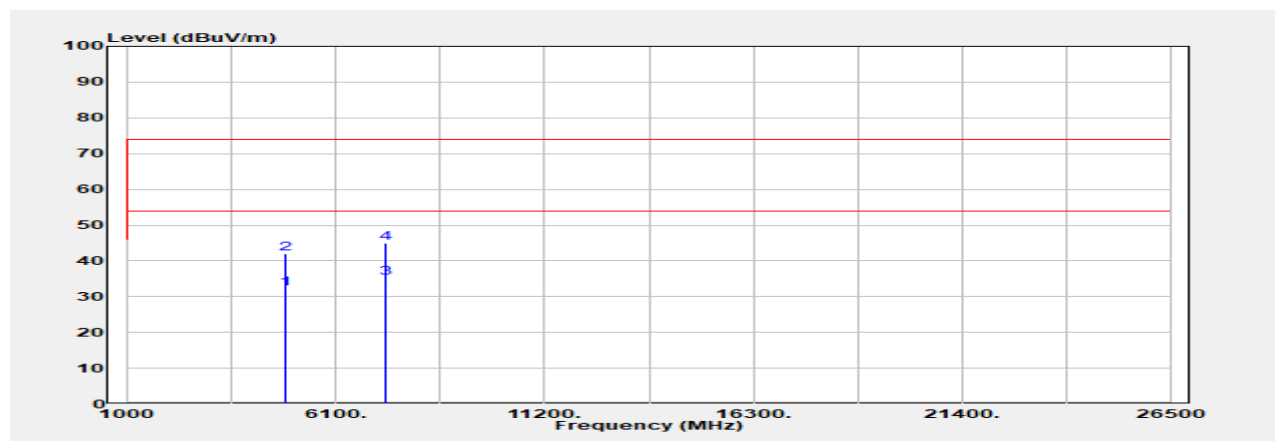
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.000 | Average | 28.88 | 3.35 | 32.23 | 54.00 | -21.77 |
| 4874.000 | Peak | 38.54 | 3.35 | 41.90 | 74.00 | -32.10 |
| 7311.000 | Average | 26.74 | 8.58 | 35.32 | 54.00 | -18.68 |
| 7311.000 | Peak | 36.54 | 8.58 | 45.12 | 74.00 | -28.88 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :Tx

EUT Pol :H Plane

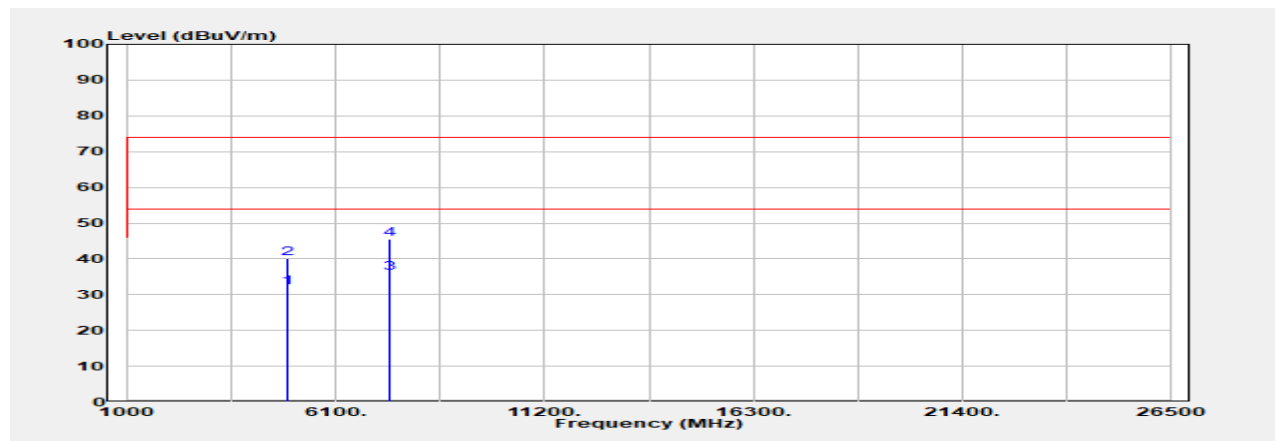
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.000 | Average | 28.59 | 3.46 | 32.05 | 54.00 | -21.95 |
| 4924.000 | Peak | 36.74 | 3.46 | 40.21 | 74.00 | -33.79 |
| 7386.000 | Average | 27.03 | 9.03 | 36.06 | 54.00 | -17.94 |
| 7386.000 | Peak | 36.39 | 9.03 | 45.42 | 74.00 | -28.58 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-09-27

Test Frequency :2462 MHz

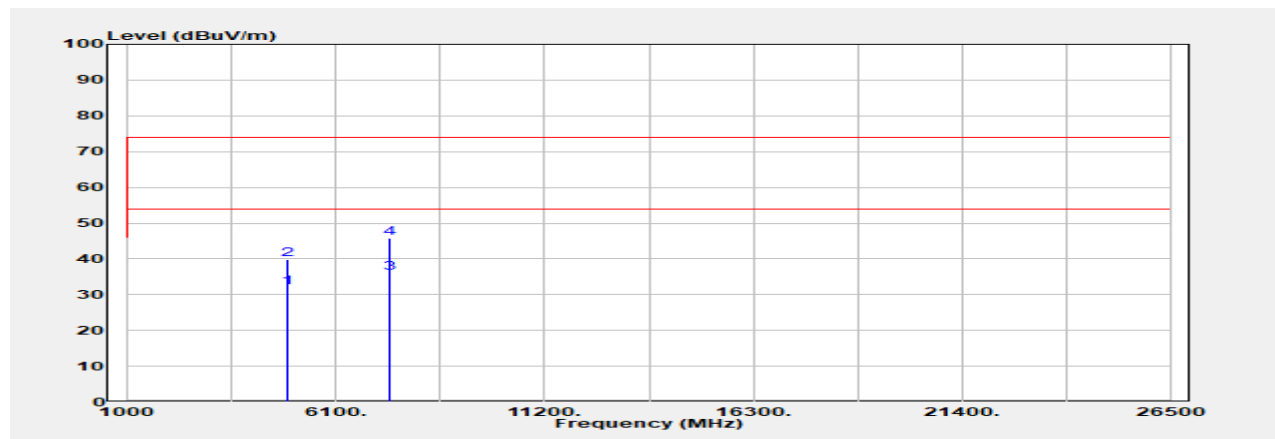
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.000 | Average | 28.47 | 3.46 | 31.93 | 54.00 | -22.07 |
| 4924.000 | Peak | 36.24 | 3.46 | 39.71 | 74.00 | -34.29 |
| 7386.000 | Average | 26.89 | 9.03 | 35.92 | 54.00 | -18.08 |
| 7386.000 | Peak | 36.70 | 9.03 | 45.74 | 74.00 | -28.26 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-09-27

Test Frequency :2422 MHz

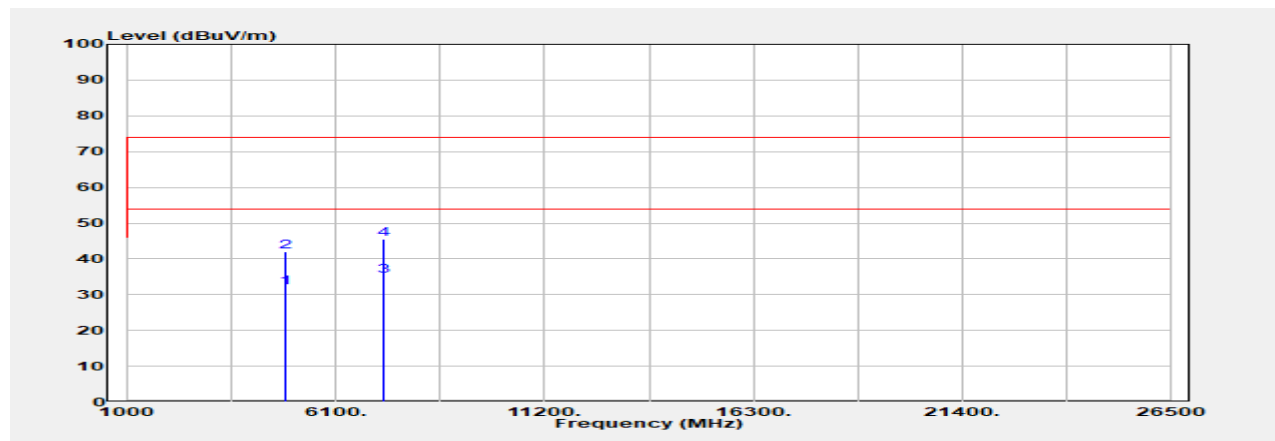
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4844.000 | Average | 28.69 | 3.31 | 32.01 | 54.00 | -21.99 |
| 4844.000 | Peak | 38.81 | 3.31 | 42.12 | 74.00 | -31.88 |
| 7266.000 | Average | 26.81 | 8.53 | 35.34 | 54.00 | -18.66 |
| 7266.000 | Peak | 36.91 | 8.53 | 45.45 | 74.00 | -28.55 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n40

Test Frequency :2422 MHz

Test Mode :Tx

EUT Pol :H Plane

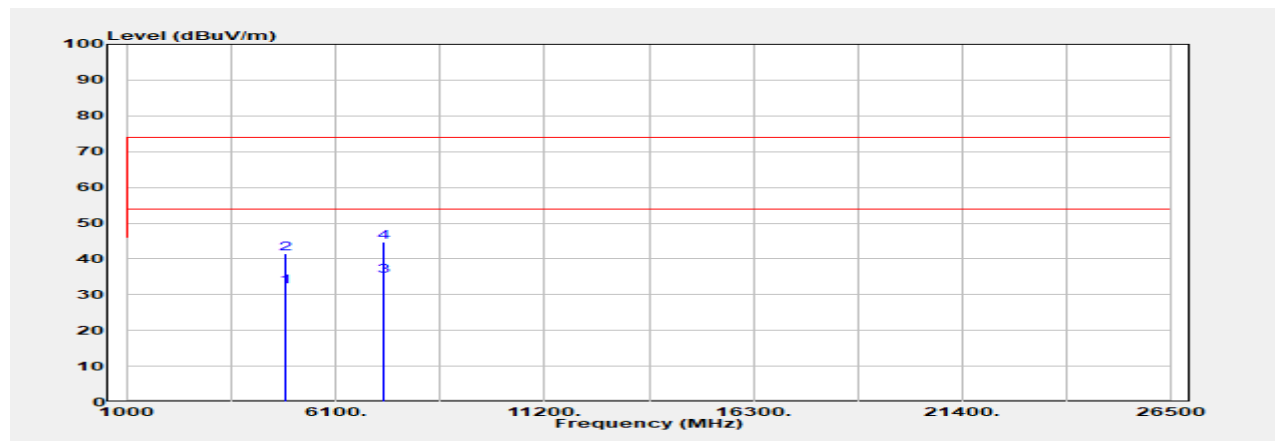
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Horizontal

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4844.000 | Average | 29.01 | 3.31 | 32.32 | 54.00 | -21.68 |
| 4844.000 | Peak | 38.26 | 3.31 | 41.57 | 74.00 | -32.43 |
| 7266.000 | Average | 26.67 | 8.53 | 35.20 | 54.00 | -18.80 |
| 7266.000 | Peak | 36.22 | 8.53 | 44.76 | 74.00 | -29.24 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n40

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :H Plane

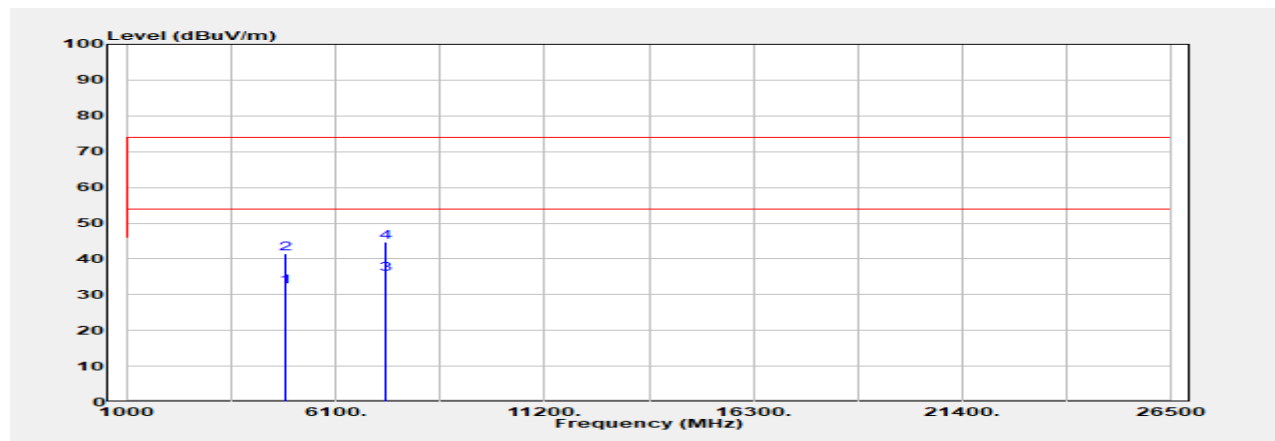
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.000 | Average | 28.93 | 3.35 | 32.28 | 54.00 | -21.72 |
| 4874.000 | Peak | 38.17 | 3.35 | 41.53 | 74.00 | -32.47 |
| 7311.000 | Average | 27.10 | 8.58 | 35.68 | 54.00 | -18.32 |
| 7311.000 | Peak | 36.23 | 8.58 | 44.80 | 74.00 | -29.20 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n40

Test Frequency :2437 MHz

Test Mode :Tx

EUT Pol :H Plane

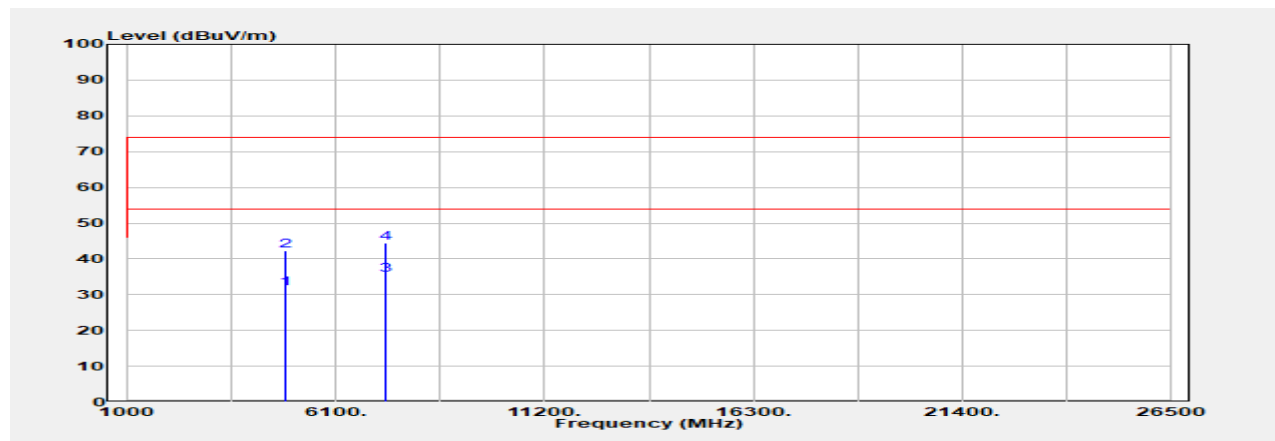
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Horizontal

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4874.000 | Average | 28.46 | 3.35 | 31.81 | 54.00 | -22.19 |
| 4874.000 | Peak | 38.96 | 3.35 | 42.32 | 74.00 | -31.68 |
| 7311.000 | Average | 26.88 | 8.58 | 35.46 | 54.00 | -18.54 |
| 7311.000 | Peak | 35.80 | 8.58 | 44.38 | 74.00 | -29.62 |

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Report Number :TERF2309002386E2

Operation Mode :802.11n40

Test Frequency :2452 MHz

Test Mode :Tx

EUT Pol :H Plane

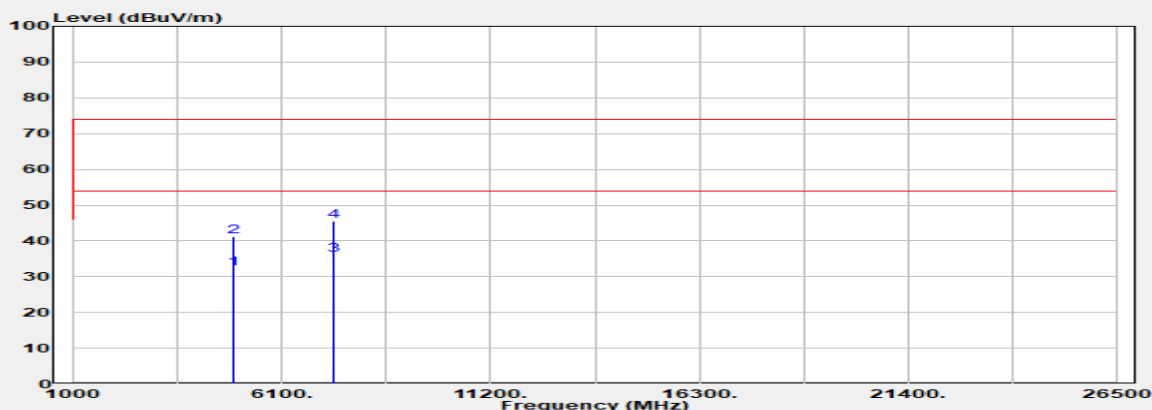
Test Site :SAC G Chamber

Test Date :2023-09-27

Temp./Humi. :22.2°C/60%

Antenna Pol. :Vertical

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4904.000 | Average | 28.81 | 3.40 | 32.21 | 54.00 | -21.79 |
| 4904.000 | Peak | 37.87 | 3.40 | 41.27 | 74.00 | -32.73 |
| 7356.000 | Average | 27.12 | 8.88 | 36.00 | 54.00 | -18.00 |
| 7356.000 | Peak | 36.59 | 8.88 | 45.47 | 74.00 | -28.53 |

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Report Number :TERF2309002386E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-09-27

Test Frequency :2452 MHz

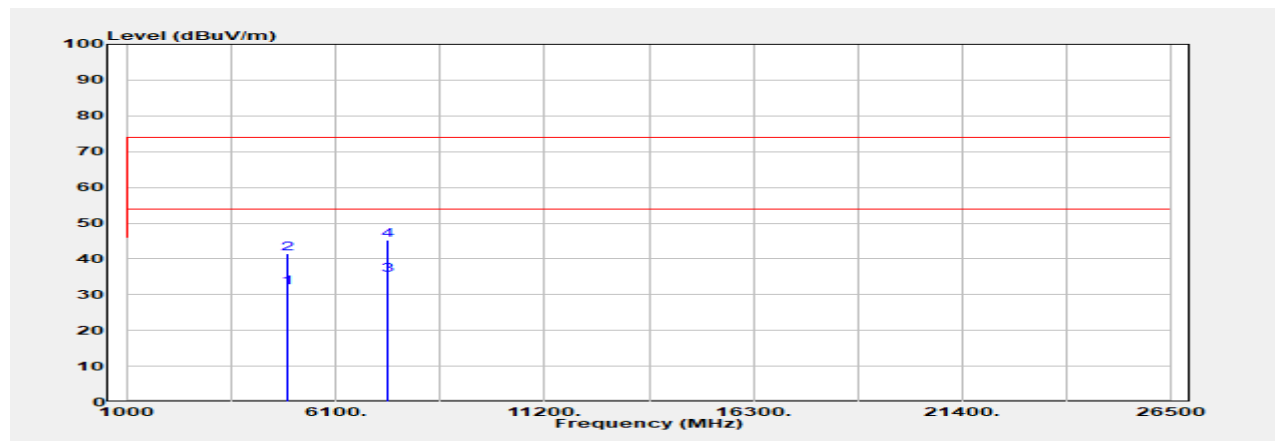
Temp./Humi. :22.2°C/60%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4904.000 | Average | 28.55 | 3.40 | 31.95 | 54.00 | -22.05 |
| 4904.000 | Peak | 38.00 | 3.40 | 41.40 | 74.00 | -32.60 |
| 7356.000 | Average | 26.74 | 8.88 | 35.62 | 54.00 | -18.38 |
| 7356.000 | Peak | 36.50 | 8.88 | 45.38 | 74.00 | -28.62 |

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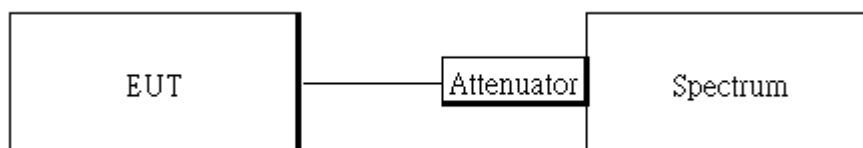
11 POWER SPECTRAL DENSITY

11.1 Standard Applicable

Per Part 15.247 (e) & RSS-247 section 5.2 b

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.

11.2 Test Setup



11.3 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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11.4 Power spectral density

| POWER DENSITY 802.11b | | | | |
|-----------------------|------------|-------------------|---------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -7.44 | -7.44 | 8.00 | PASS |
| 2437 | -7.28 | -7.28 | 8.00 | PASS |
| 2462 | -7.98 | -7.98 | 8.00 | PASS |

| POWER DENSITY 802.11g | | | | |
|-----------------------|------------|-------------------|---------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -11.20 | -11.20 | 8.00 | PASS |
| 2437 | -11.54 | -11.54 | 8.00 | PASS |
| 2462 | -11.77 | -11.77 | 8.00 | PASS |

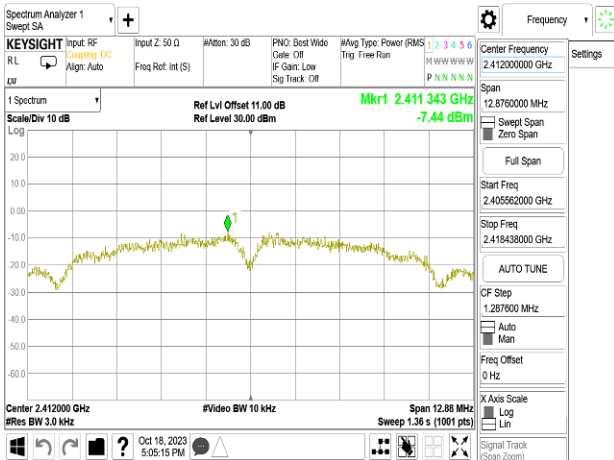
| POWER DENSITY 802.11n HT20 | | | | |
|----------------------------|------------|-------------------|---------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -13.06 | -13.06 | 8.00 | PASS |
| 2437 | -12.52 | -12.52 | 8.00 | PASS |
| 2462 | -12.98 | -12.98 | 8.00 | PASS |

| POWER DENSITY 802.11n HT40 | | | | |
|----------------------------|------------|-------------------|---------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2422 | -16.49 | -16.49 | 8.00 | PASS |
| 2437 | -16.10 | -16.10 | 8.00 | PASS |
| 2452 | -17.41 | -17.41 | 8.00 | PASS |

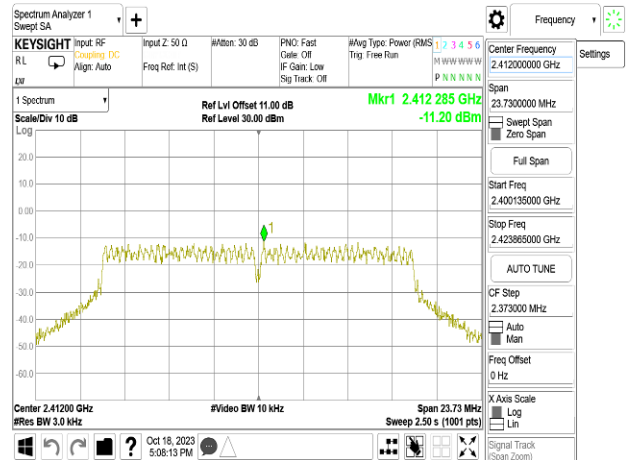
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802.11b_20MHz_Chain0_2412MHz



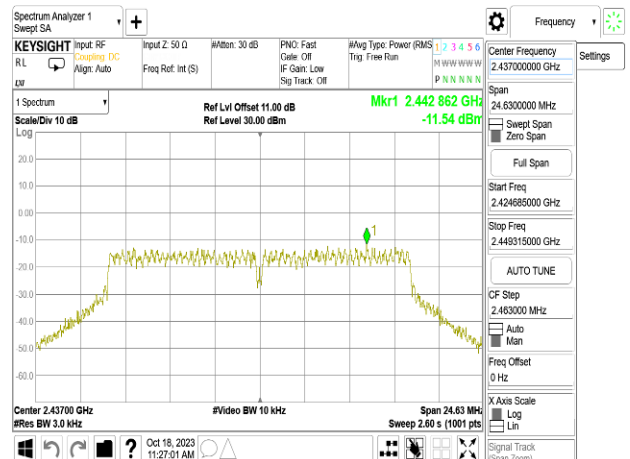
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



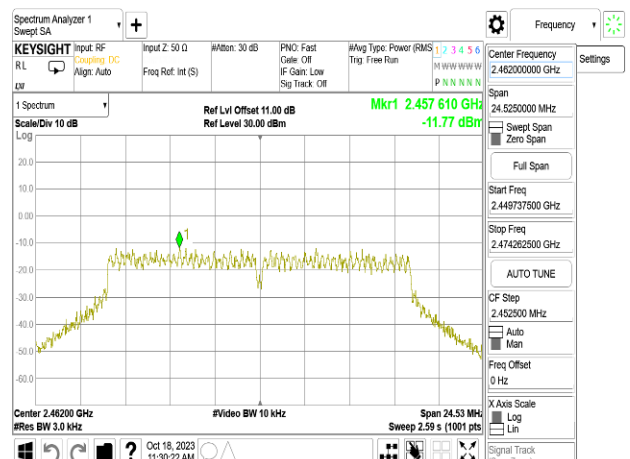
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

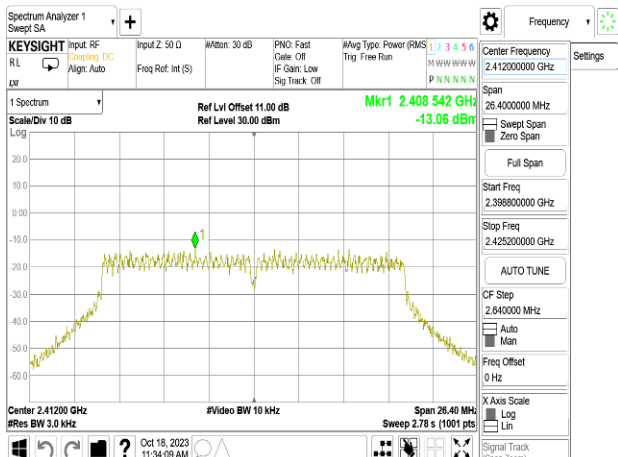


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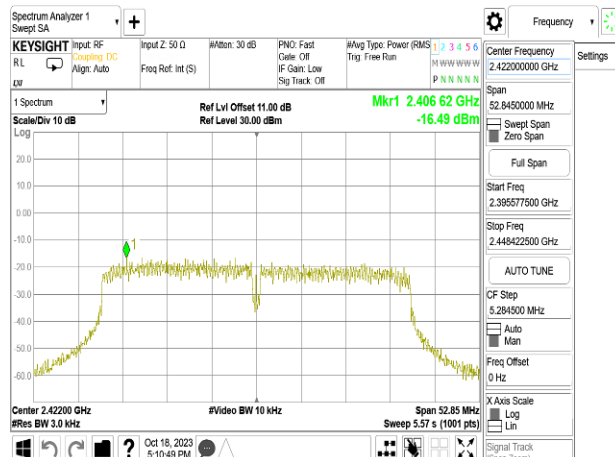
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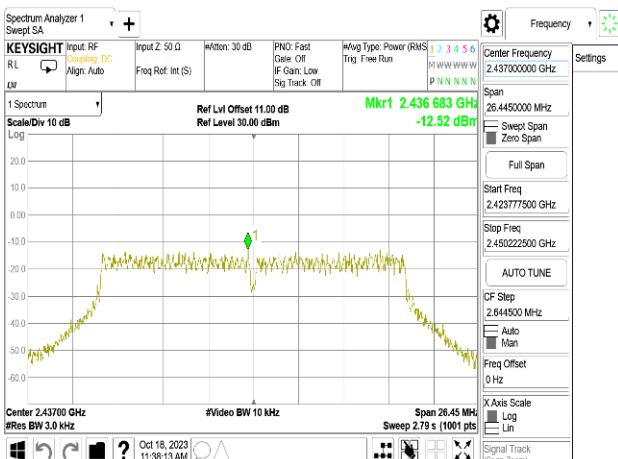
802.11n_20MHz_Chain0_2412MHz



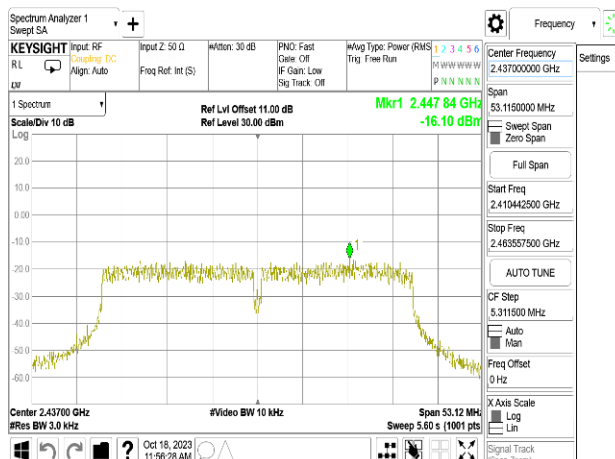
802.11n_40MHz_Chain0_2422MHz



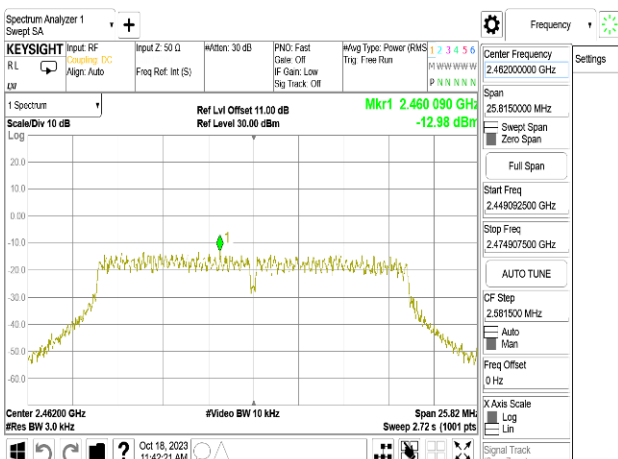
802.11n_20MHz_Chain0_2437MHz



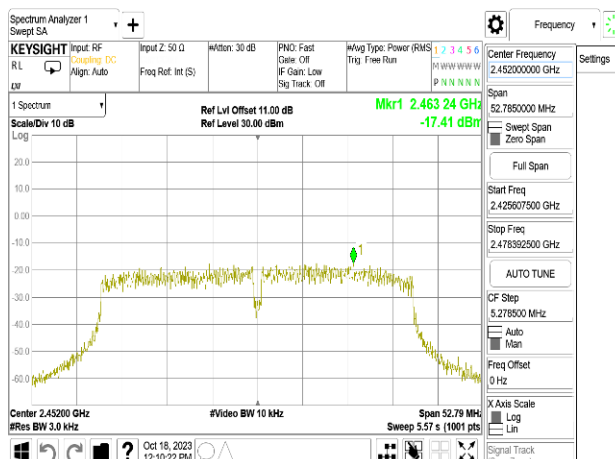
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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12 ANTENNA REQUIREMENT

12.1 Standard Applicable

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

12.2 Antenna Connected Construction:

The antenna with unique and non-standard connector that complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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