

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: GOOGLE LLC
1600 Amphitheatre Parkway Mountain View, CA 94043

Product Name: Wireless Streaming Device

Brand Name: GOOGLE

Model No.: GJQ9T

Model Difference: N/A

Report Number: ER/2021/40062

FCC ID: A4RGJQ9T

IC: 10395A-GJQ9T

Issue Date: July 7, 2021

Date of Test: April 21, 2021 ~ May 10, 2021

Date of EUT Received: February 19, 2021

Approved By

Blue Yang

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, ISSED 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 |
|---------------|----------|-------------|--------------|------------|
| ER/2021/40062 | 00 | Original. | July 7, 2021 | Elle Chang |
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1 GENERAL INFORMATION

1.1 Product Description

| | |
|-------------------|---|
| Product Name: | Wireless Streaming Device |
| Brand Name: | GOOGLE |
| Model No.: | GJQ9T |
| Model Difference: | N/A |
| Hardware Version: | N/A |
| Firmware Version: | N/A |
| EUT Series No.: | Conducted: G1878051 Radiated: G1878050 |
| Power Supply: | USB 5V |

1.2 RF Specification

| Wi-Fi 802.11 | Frequency Range | Channels | Rated Power (dBm) | Modulation Technology |
|------------------|--------------------|--|-------------------|--------------------------|
| b | 2412-2462 | 11 | 22.02 | DSSS, |
| g | | | 26.16 | OFDM |
| n_HT20 | | | 26.08 | |
| Modulation type: | | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM | | |
| Transission 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_HT20MHz: 6.5 – 72.2 Mbps | | |

1.3 Antenna Designation

| Antenna Type | Freq. (MHz) | Peak Antenna Gain (dBi) | Worst Antenna Gain |
|--|----------------|----------------------------|-----------------------|
| Dipole | 2.4GHz | 2.13 | - |
| Note: 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 2 Feb. 2017
 RSS-Gen Issue 5, Amendment 2, February 2021
 ANSI C63.10:2013

1.5 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation 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 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 A | 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 Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 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.

2.3.3 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.

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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*9m*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.

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.

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2.5 Configuration of Tested System

Fig. 2-1 Conducted (Antenna Port) Emission Configuration



Fig 2-2 Radiated Emission



Fig 2-3 Conduction (AC Power Line) Radiated Emission

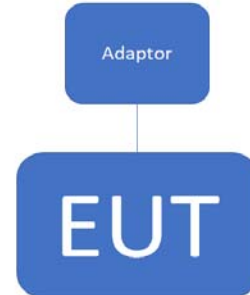


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|--------------------|------------|------------|
| 1. | WLAN Test Software | N/A | N/A | N/A | N/A | N/A |
| 2. | Notebook | Lenovo | T440P | PC-014TAK | N/A | N/A |
| 3. | Notebook | Lenovo | T440P | PC-083PVC 15/10 | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | IC Rules | Description Of Test | Result |
|----------------------------------|--|--|-----------|
| §15.207(a) | RSS-Gen §8.8 | AC Power Line Conducted Emission | Compliant |
| §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 §15.247(b) | N/A | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n 20M.

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

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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 | Multiple Transmission Spatial |
|--|---|------------------------------|------------------------------|------------------------------|--|-------------------------------|
| <input checked="" type="checkbox"/> 802.11 b | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> 1TX | <input type="checkbox"/> 2TX |
| <input checked="" type="checkbox"/> 802.11 g | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> 1TX | <input type="checkbox"/> 2TX |
| <input checked="" type="checkbox"/> 802.11 n | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> SISO | <input type="checkbox"/> MIMO |
| <input type="checkbox"/> 802.11 ax | <input type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input type="checkbox"/> SISO | <input type="checkbox"/> MIMO |

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.

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4.3 Radiated Emission Test:

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
|---|-------------------|----------------|------------|------------------|--------------|
| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
| 802.11g | 1 to 11 | 6 | OFDM | 6 | Ch0 |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1 | Ch0 |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | 6 | Ch0 |
| 802.11n 20M | 1 to 11 | 1, 6, 11 | OFDM | MCS 0 | Ch0 |
| <p>Note: The field strength of radiation emission was measured as EUT three orthogonal plans, E1 / E2 / H, are positioned to pre-scan the emission generating the highest one. The worst position is tested, and recorded.</p> | | | | | |

4.4 Antenna Port Conducted Measurement:

| CONDUCTED TEST | | | | | |
|-----------------------|-------------------|----------------|------------|------------------|--------------|
| 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 20M | 1 to 11 | 1, 6, 11 | OFDM | MCS 0 | Ch0 |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|-------------|
| AC Power Line Conducted Emission | +/- 2.34 dB |
| Peak Output Power | +/- 1 dB |
| 6dB Bandwidth & 99% Bandwidth | +/- 1.53 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 1.69 dB |
| Peak Power Density | +/- 1.53 dB |
| Temperature | +/- 0.4 °C |
| Humidity | +/- 3.5 % |
| DC / AC Power Source | +/- 1 % |

| Radiated Spurious Emission Measurement Uncertainty | | |
|--|-------------|-----------------|
| Polarization: Vertical | +/- 2.64 dB | 9kHz~30MHz |
| | +/- 4.93 dB | 30MHz - 1000MHz |
| | +/- 4.81 dB | 1GHz - 18GHz |
| | +/- 4.52 dB | 18GHz - 40GHz |
| Polarization: Horizontal | +/- 2.64 dB | 9kHz~30MHz |
| | +/- 4.45 dB | 30MHz - 1000MHz |
| | +/- 4.81 dB | 1GHz - 18GHz |
| | +/- 4.52 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 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

| Radiated Emission Test Site: Conduction 1 | | | | | |
|---|--------------|---------------|--------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 07/13/2020 | 07/12/2021 |
| LISN | SCHWARZ-BECK | NSLK 8127 | 8127-465 | 04/09/2021 | 04/08/2022 |
| Coaxial Cables | N/A | Coaxial Cable | 161207 | 12/07/2020 | 12/06/2021 |
| Test Software | audix | e3 | Ver. 6.11-20180413 | N.C.R | N.C.R |

6.3 EUT Setup

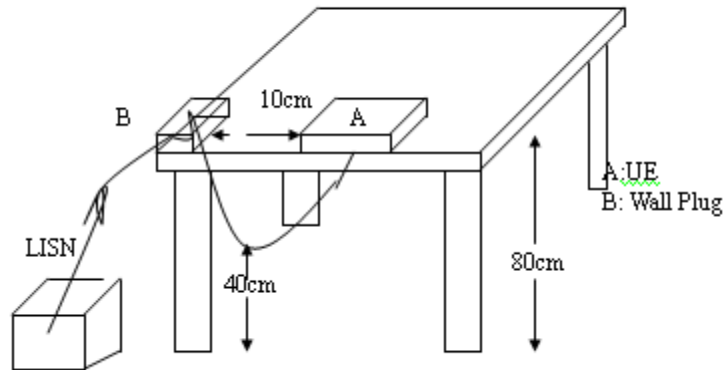
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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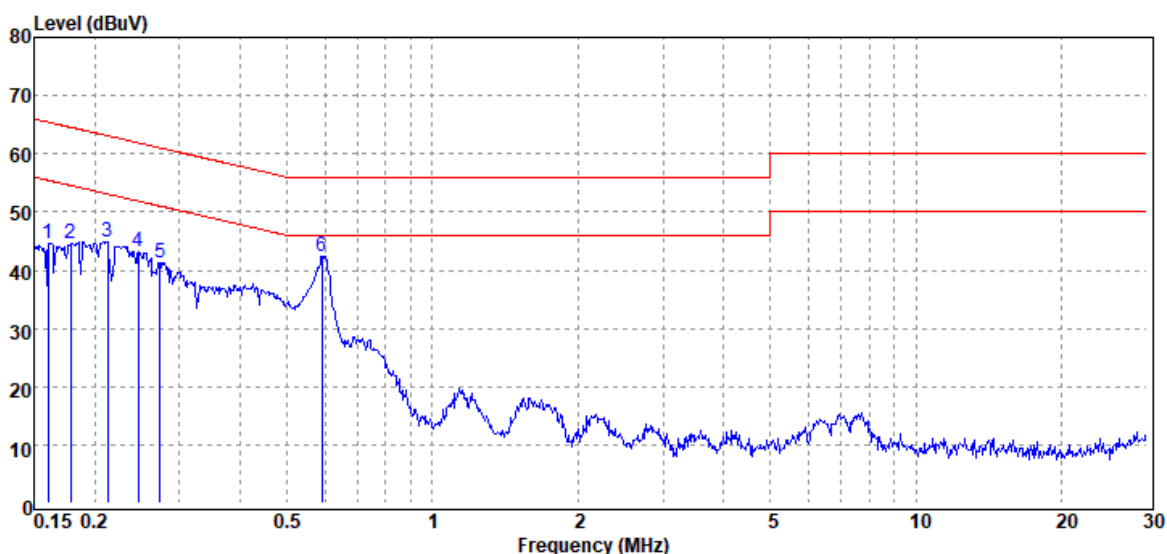
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2021-40062
 Test Mode :WLAN 2.4G
 Power :AC 120V/60Hz
 Probe :L
 Note :

Test Site :Conduction 6F
 Test Date :2021-04-23
 Temp./Humi. :25.1/62
 Engineer :Ricky Chen



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV | Limit dBuV | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|----------------------|---------------|--------------|
| 0.16 | Peak | 44.47 | 0.04 | 44.51 | 65.43 | -20.92 |
| 0.18 | Peak | 44.57 | 0.04 | 44.61 | 64.55 | -19.94 |
| 0.21 | Peak | 44.93 | 0.04 | 44.97 | 63.10 | -18.13 |
| 0.25 | Peak | 43.05 | 0.04 | 43.09 | 61.86 | -18.77 |
| 0.27 | Peak | 41.33 | 0.04 | 41.37 | 61.03 | -19.66 |
| 0.59 | Peak | 42.28 | 0.14 | 42.42 | 56.00 | -13.58 |

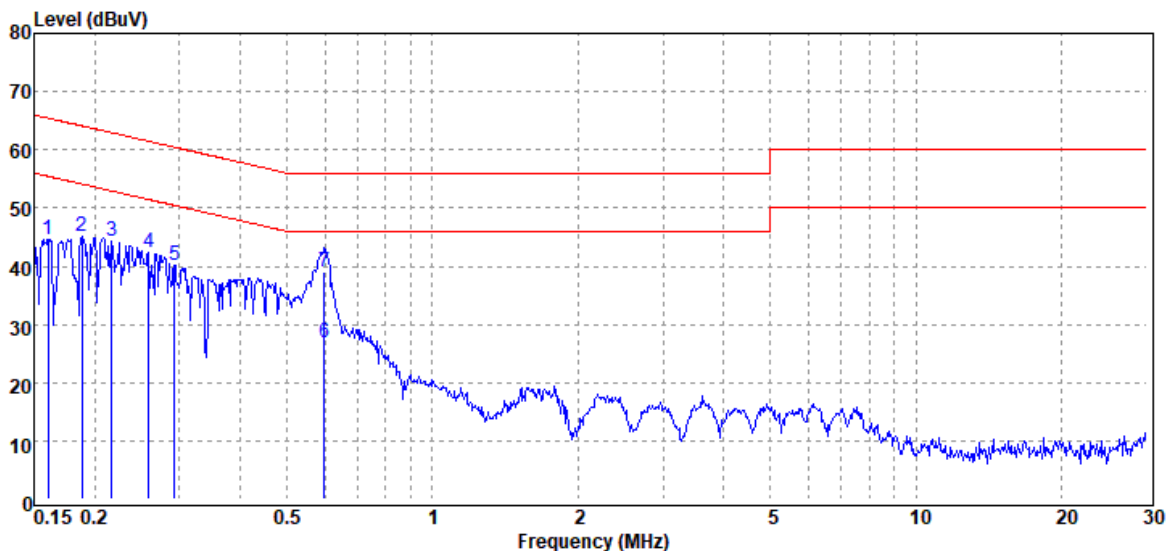
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Report Number :ER-2021-40062
 Test Mode :WLAN 2.4G
 Power :AC 120V/60Hz
 Probe :N
 Note: :

Test Site :Conduction 6F
 Test Date :2021-04-23
 Temp./Humi. :25.1/62
 Engineer :Ricky Chen



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V | Limit d μ V | Margin dB |
|--------------|------------------|--|--------------|---------------------------|--------------------|--------------|
| 0.16 | Peak | 44.61 | 0.10 | 44.71 | 65.43 | -20.72 |
| 0.19 | Peak | 45.11 | 0.10 | 45.21 | 64.11 | -18.90 |
| 0.22 | Peak | 44.14 | 0.10 | 44.24 | 62.92 | -18.68 |
| 0.26 | Peak | 42.25 | 0.10 | 42.35 | 61.47 | -19.12 |
| 0.29 | Peak | 39.95 | 0.11 | 40.06 | 60.46 | -20.40 |
| 0.60 | Average | 26.57 | 0.18 | 26.75 | 46.00 | -19.25 |
| 0.60 | QP | 38.83 | 0.18 | 39.01 | 56.00 | -16.99 |

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7 DUTY CYCLE OF TEST SIGNAL

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 Measurement Procedure:

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

7.2 Duty Cycle:

| | Duty Cycle (%) = Ton / (Ton+Toff) | Duty Factor (dB) =10*log (1/Duty Cycle) | 1/T (kHz) | VBW setting (kHz) |
|------------|--------------------------------------|--|--------------|----------------------|
| 802.11b | 98.90 | 0.05 | 0.12 | 0.01 |
| 802.11g | 93.27 | 0.30 | 0.70 | 1.00 |
| 802.11n_20 | 92.84 | 0.32 | 0.75 | 1.00 |

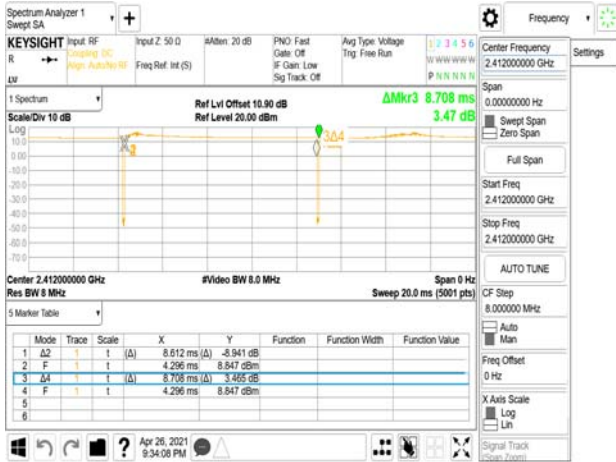
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7.3 Duty Cycle test plots

802.11b_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

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.

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.

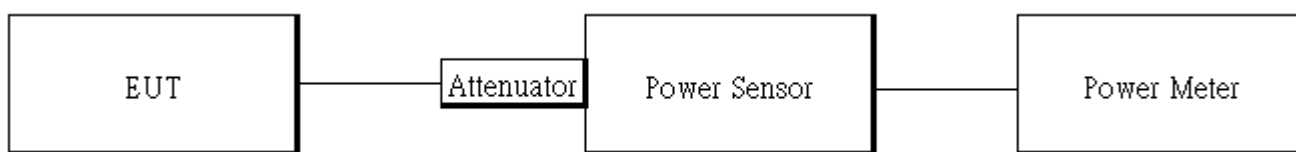
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 Measurement Equipment Used

| Conducted Emission Test Site: Conducted 2 | | | | | |
|---|--------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2496A | 1804001 | 03/02/2021 | 03/01/2022 |
| Power Sensor | Anritsu | MA2411B | 1726104 | 03/02/2021 | 03/01/2022 |
| Power Sensor | Anritsu | MA2411B | 1726107 | 03/02/2021 | 03/01/2022 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 12/16/2020 | 12/15/2021 |

8.3 Test Set-up

Power Meter:



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8.4 Measurement Procedure

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 is compensated to obtain the maximum value of measurement in average.**

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8.5 Measurement Result

8.5.1 Peak & Avg

| 802.11b Ch0 | | | | | |
|-------------|-------------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 20.65 | 30.00 | PASS |
| 2 | 2417 | 1 | 21.94 | 30.00 | PASS |
| 6 | 2437 | 1 | 21.91 | 30.00 | PASS |
| 10 | 2457 | 1 | 22.02 | 30.00 | PASS |
| 11 | 2462 | 1 | 19.57 | 30.00 | PASS |
| 802.11b Ch0 | | | | | |
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 17.80 | 30.00 | PASS |
| 2 | 2417 | 1 | 19.15 | 30.00 | PASS |
| 6 | 2437 | 1 | 19.12 | 30.00 | PASS |
| 10 | 2457 | 1 | 19.16 | 30.00 | PASS |
| 11 | 2462 | 1 | 16.61 | 30.00 | PASS |

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| 802.11g Ch0 | | | | | |
|-------------|-------------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 25.77 | 30.00 | PASS |
| 2 | 2417 | 6 | 25.97 | 30.00 | PASS |
| 3 | 2422 | 6 | 26.12 | 30.00 | PASS |
| 6 | 2437 | 6 | 26.10 | 30.00 | PASS |
| 9 | 2452 | 6 | 26.16 | 30.00 | PASS |
| 10 | 2457 | 6 | 26.07 | 30.00 | PASS |
| 11 | 2462 | 6 | 25.32 | 30.00 | PASS |
| 802.11g Ch0 | | | | | |
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 16.07 | 30.00 | PASS |
| 2 | 2417 | 6 | 16.92 | 30.00 | PASS |
| 3 | 2422 | 6 | 18.12 | 30.00 | PASS |
| 6 | 2437 | 6 | 18.10 | 30.00 | PASS |
| 9 | 2452 | 6 | 18.15 | 30.00 | PASS |
| 10 | 2457 | 6 | 17.14 | 30.00 | PASS |
| 11 | 2462 | 6 | 15.24 | 30.00 | PASS |

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| 802.11n_HT20M Ch0 | | | | | |
|-------------------|-------------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 24.63 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 25.47 | 30.00 | PASS |
| 3 | 2422 | MCS0 | 26.02 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 25.93 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 26.08 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 25.81 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 24.84 | 30.00 | PASS |
| 802.11n_HT20M Ch0 | | | | | |
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 14.90 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 15.68 | 30.00 | PASS |
| 3 | 2422 | MCS0 | 18.00 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 17.71 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 17.90 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 16.60 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 14.87 | 30.00 | PASS |

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8.5.2 EIRP

| 802.11b Ch0 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 17.80 | 2.13 | 19.93 | 36 | PASS |
| 2 | 2417 | 1 | 19.15 | 2.13 | 21.28 | 36 | PASS |
| 6 | 2437 | 1 | 19.12 | 2.13 | 21.25 | 36 | PASS |
| 10 | 2457 | 1 | 19.16 | 2.13 | 21.29 | 36 | PASS |
| 11 | 2462 | 1 | 16.61 | 2.13 | 18.74 | 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 | 16.07 | 2.13 | 18.20 | 36 | PASS |
| 2 | 2417 | 6 | 16.92 | 2.13 | 19.05 | 36 | PASS |
| 3 | 2422 | 6 | 18.12 | 2.13 | 20.25 | 36 | PASS |
| 6 | 2437 | 6 | 18.10 | 2.13 | 20.23 | 36 | PASS |
| 9 | 2452 | 6 | 18.15 | 2.13 | 20.28 | 36 | PASS |
| 10 | 2457 | 6 | 17.14 | 2.13 | 19.27 | 36 | PASS |
| 11 | 2462 | 6 | 15.24 | 2.13 | 17.37 | 36 | PASS |

| 802.11n_HT20M Ch0 | | | | | | | |
|-------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 14.90 | 2.13 | 17.03 | 36 | PASS |
| 2 | 2417 | MCS0 | 15.68 | 2.13 | 17.81 | 36 | PASS |
| 3 | 2422 | MCS0 | 18.00 | 2.13 | 20.13 | 36 | PASS |
| 6 | 2437 | MCS0 | 17.71 | 2.13 | 19.84 | 36 | PASS |
| 9 | 2452 | MCS0 | 17.90 | 2.13 | 20.03 | 36 | PASS |
| 10 | 2457 | MCS0 | 16.60 | 2.13 | 18.73 | 36 | PASS |
| 11 | 2462 | MCS0 | 14.87 | 2.13 | 17.00 | 36 | PASS |

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9 EMISSION BANDWIDTH MEASUREMENT

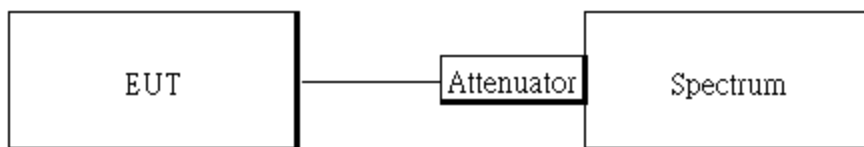
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

| Conducted Emission Test Site: Conducted 2 | | | | | |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY60240503 | 12/11/2020 | 12/10/2021 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 12/16/2020 | 12/15/2021 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 12/16/2020 | 12/15/2021 |

9.3 Test Set-up



9.4 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- Set the spectrum analyzer as
 RBW= 100kHz ,
 VBW = 3 X RBW,
 Span= 2 to 5 times of the OBW,
 Sweep=auto,
 Detector = Peak, and Max hold for -6dB Bandwidth test.
- Set the spectrum analyzer as
 RBW= 1 % to 5% of 99% Bandwidth ,
 VBW ≥ 3 X RBW,
 Span= large enough to capture all products of the modulation process,
 Sweep=auto,
 Detector = Peak, and Max hold for 99% Bandwidth test.
- Turn on the 99% bandwidth function, max reading.
- Repeat above procedures until all test default channel is completed

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9.5 6dB Bandwidth

802.11b Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|----------------|-------------|--------|
| 2412 | 9048.00 | > 500 | PASS |
| 2437 | 9065.00 | > 500 | PASS |
| 2462 | 9067.00 | > 500 | PASS |

802.11g Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------------|-------------|--------|
| 2412 | 15220.00 | > 500 | PASS |
| 2437 | 16300.00 | > 500 | PASS |
| 2462 | 15210.00 | > 500 | PASS |

802.11_n_HT20 Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------------|-------------|--------|
| 2412 | 15220.00 | > 500 | PASS |
| 2437 | 17320.00 | > 500 | PASS |
| 2462 | 15200.00 | > 500 | PASS |

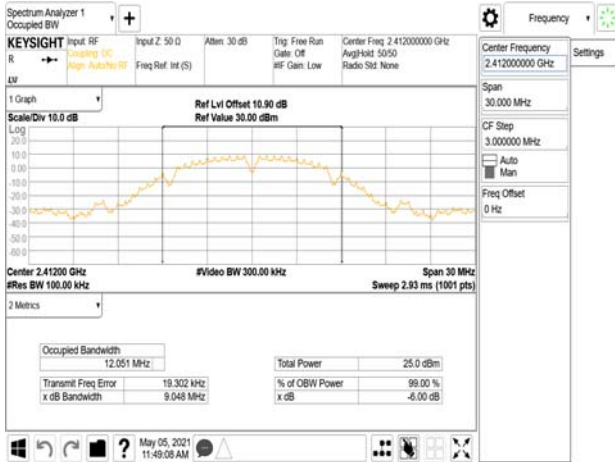
**Refer to next page for plots*

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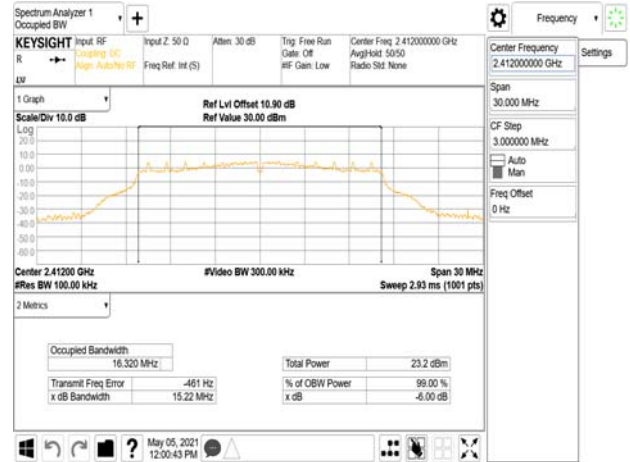
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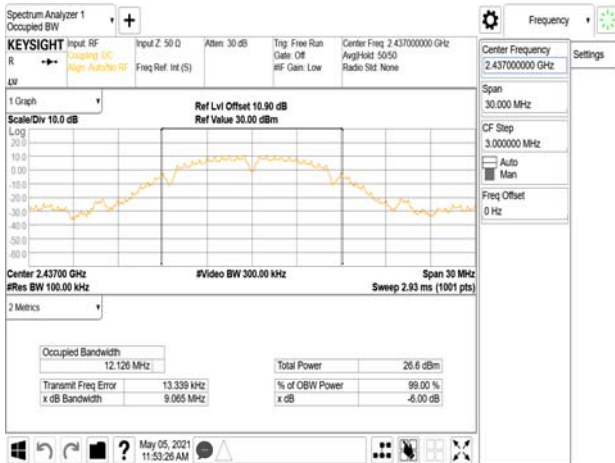
802.11b_20MHz_Chain0_2412MHz



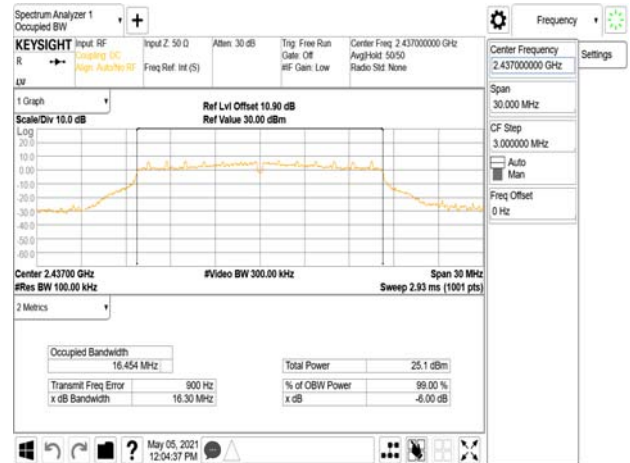
802.11g_20MHz_Chain0_2412MHz



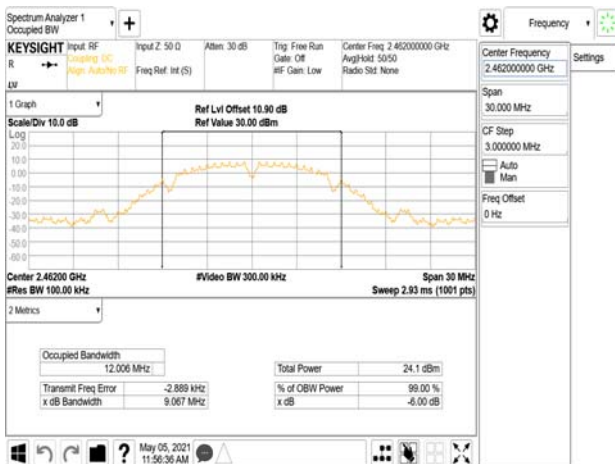
802.11b_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

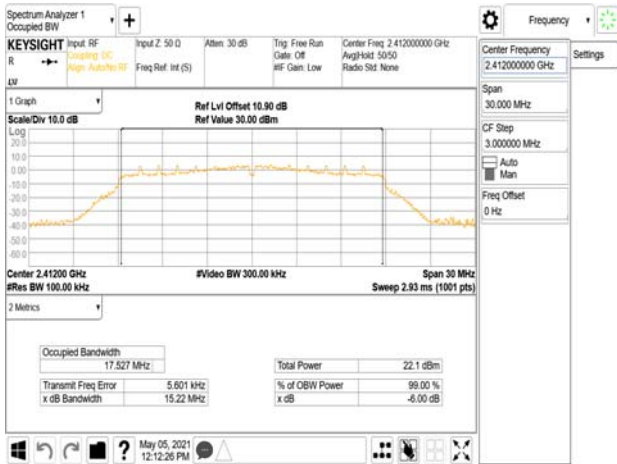


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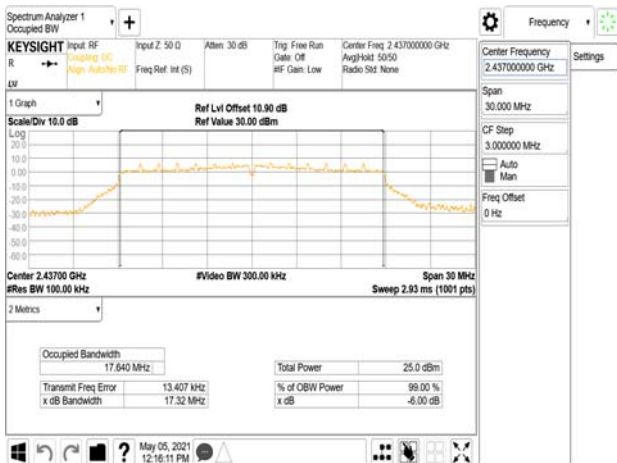
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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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9.6 99% Bandwidth

802.11b Ch0

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 12.082 |
| 2437 | 12.167 |
| 2462 | 12.016 |

802.11g Ch0

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 16.694 |
| 2437 | 16.945 |
| 2462 | 16.663 |

802.11n_HT20M Ch0

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 17.752 |
| 2437 | 17.994 |
| 2462 | 17.752 |

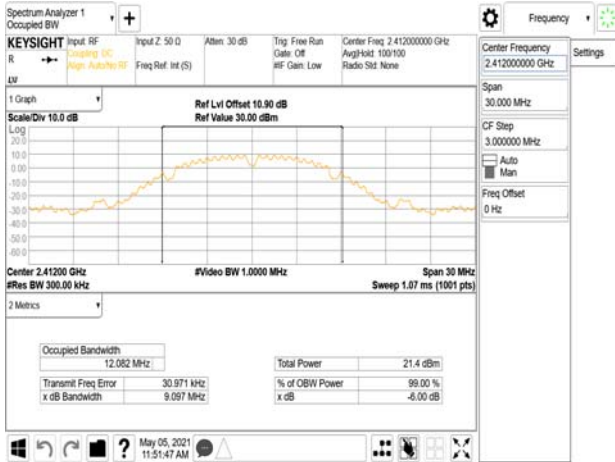
**Refer to next page for plots*

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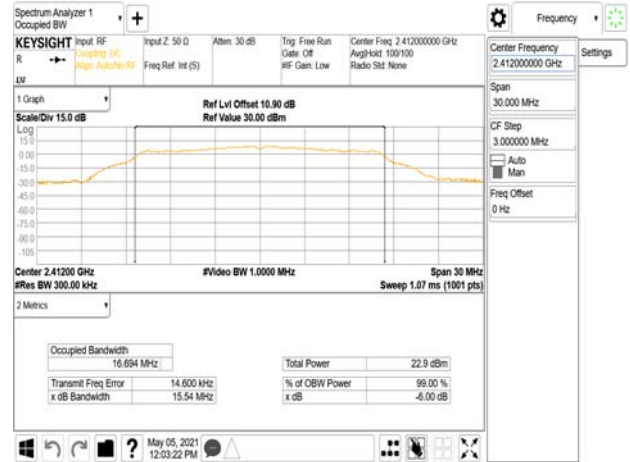
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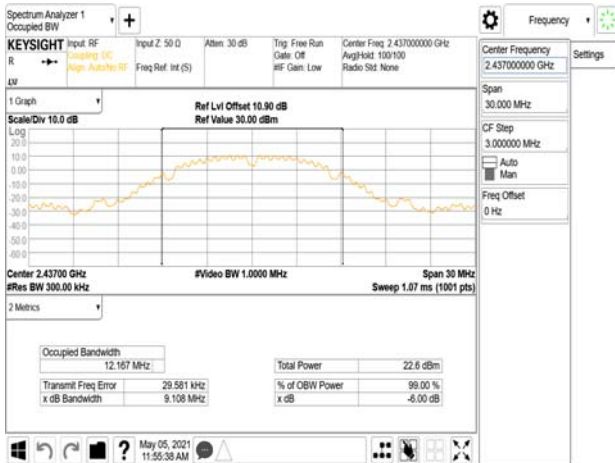
802.11b_20MHz_Chain0_2412MHz



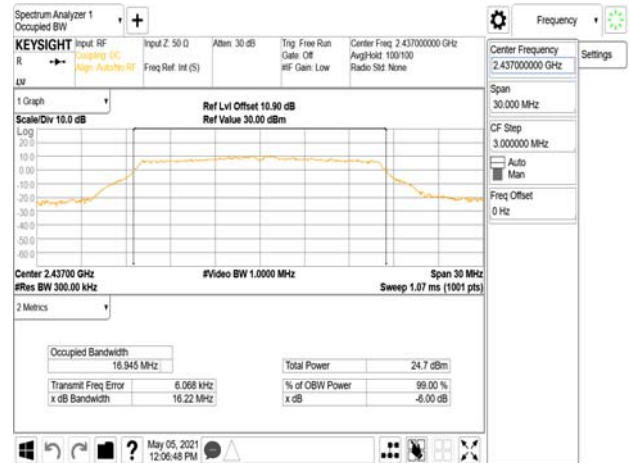
802.11g_20MHz_Chain0_2412MHz



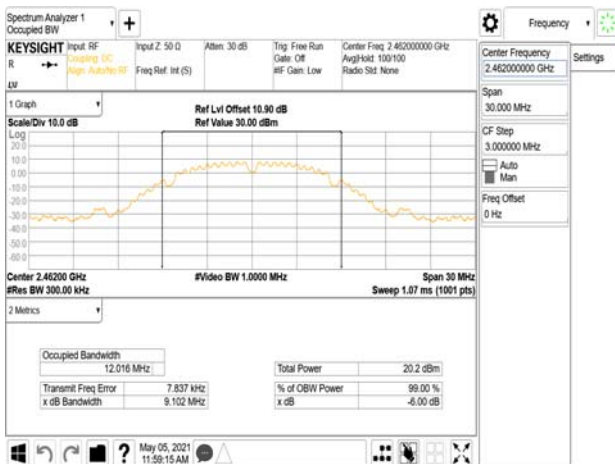
802.11b_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

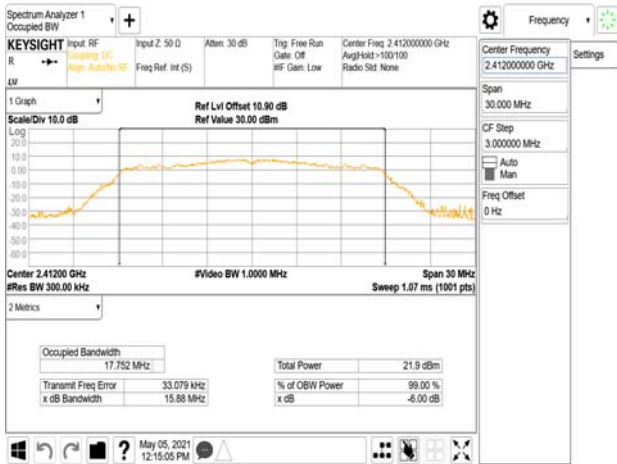


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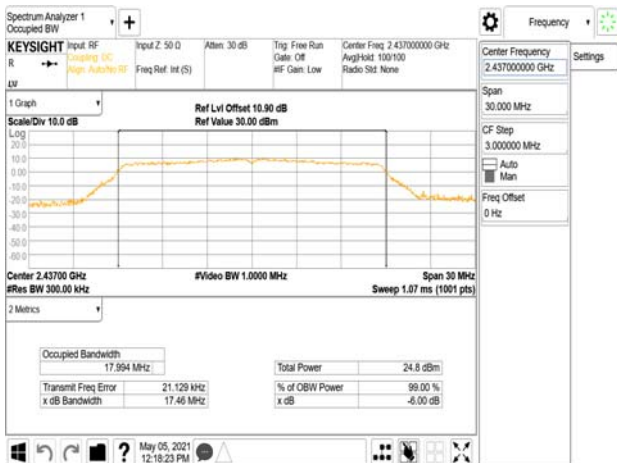
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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

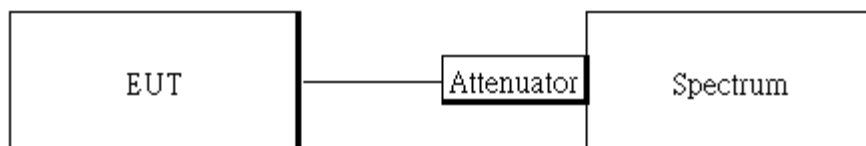
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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, 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.

10.2 Measurement Equipment Used

| Conducted Emission Test Site: Conducted 2 | | | | | |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY60240503 | 12/11/2020 | 12/10/2021 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 12/16/2020 | 12/15/2021 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 12/16/2020 | 12/15/2021 |

10.3 Test SET-UP



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10.4 Measurement Procedure

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.

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.

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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.

10.5 Measurement Result

| Reference Level of Limit 802.11b mode | | |
|---------------------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 9.17 | -10.83 |
| 2437 | 10.60 | -9.40 |
| 2462 | 8.19 | -11.81 |

| Reference Level of Limit 802.11g mode | | |
|---------------------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 4.82 | -15.18 |
| 2437 | 6.73 | -13.27 |
| 2462 | 3.89 | -16.11 |

| Reference Level of Limit 802.11n20 mode | | |
|---|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 3.79 | -16.21 |
| 2437 | 6.93 | -13.07 |
| 2462 | 4.10 | -15.90 |

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Band Edge

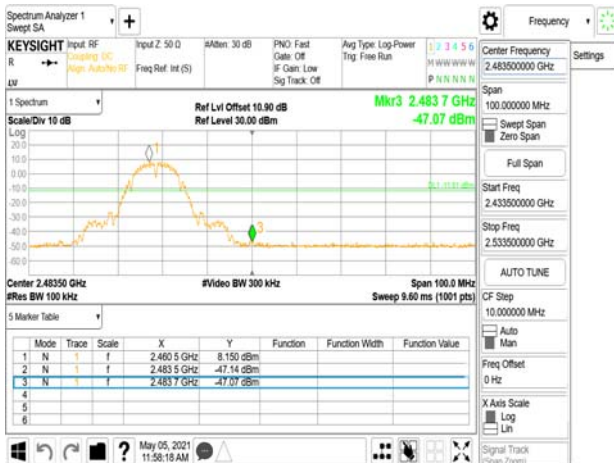
802.11b_20MHz_Chain0_2412MHz



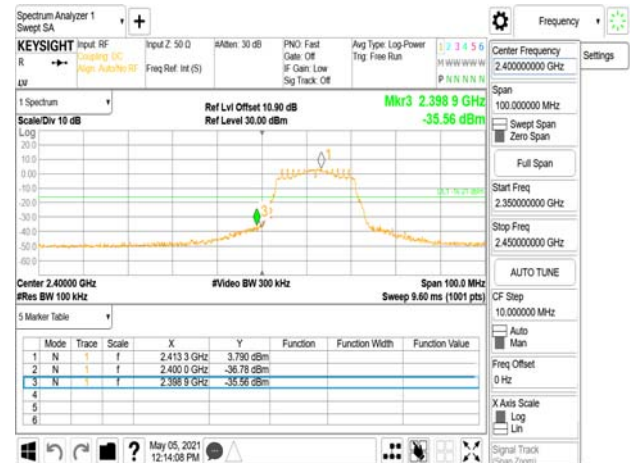
802.11g_20MHz_Chain0_2462MHz



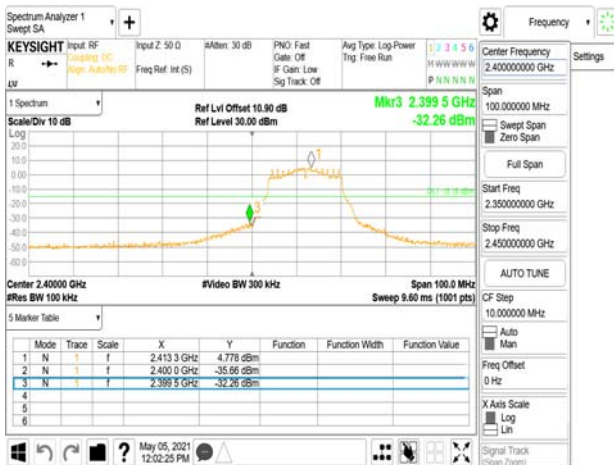
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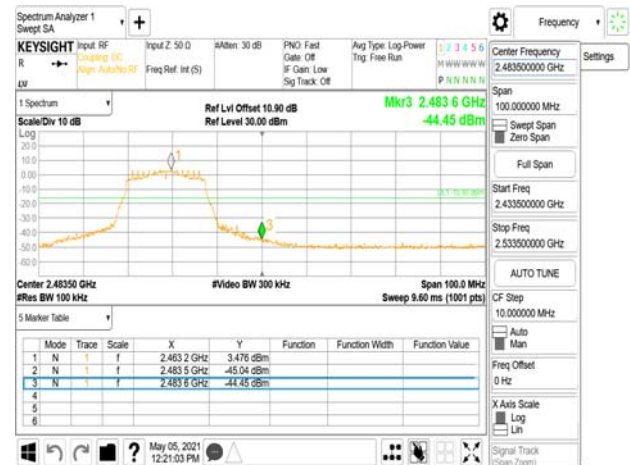
802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2462MHz



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Reference Level

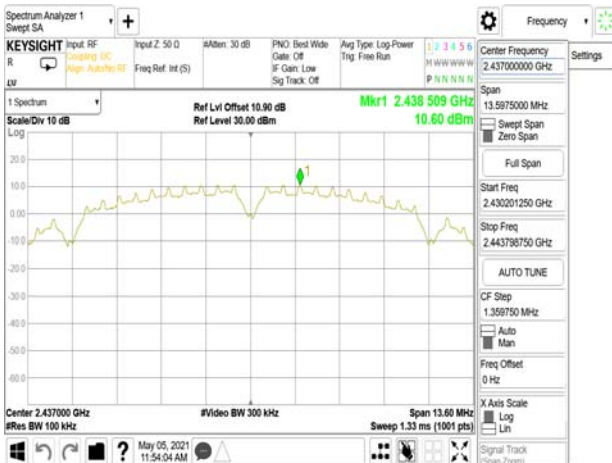
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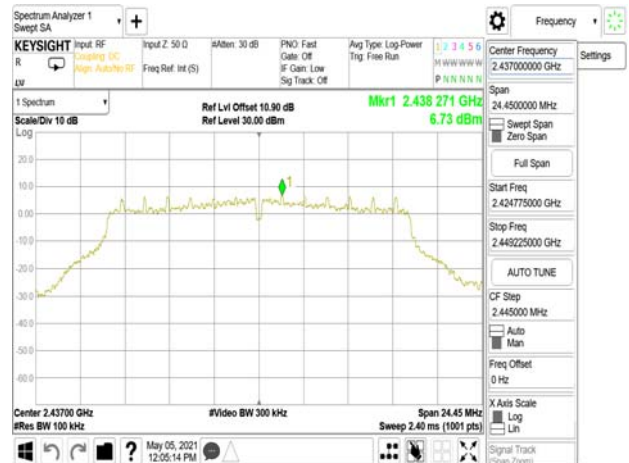
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

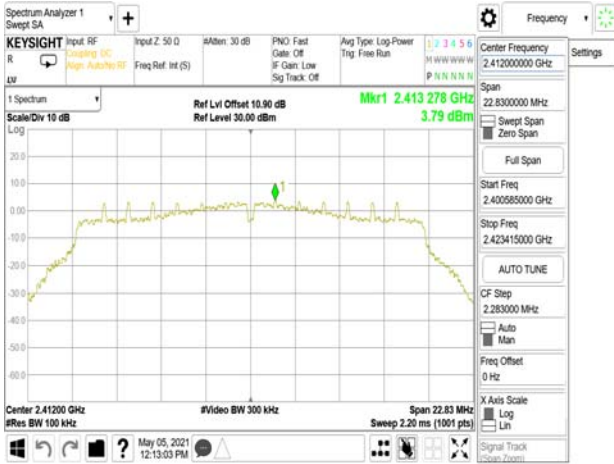


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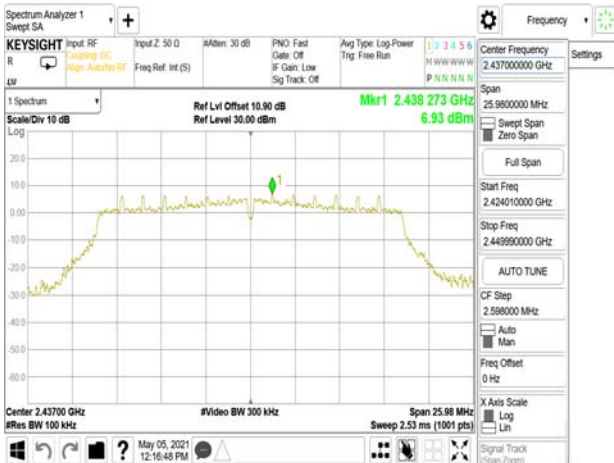
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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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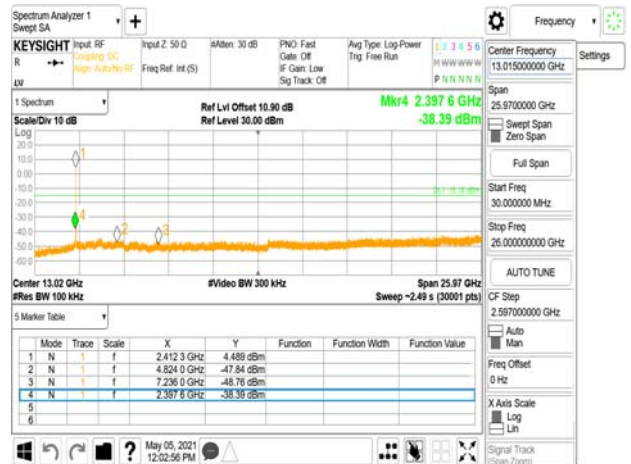
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Spurious Emission

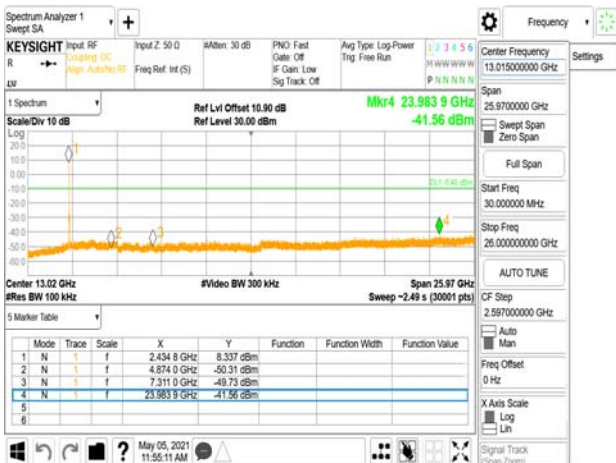
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802.11g_20MHz_Chain0_2412MHz



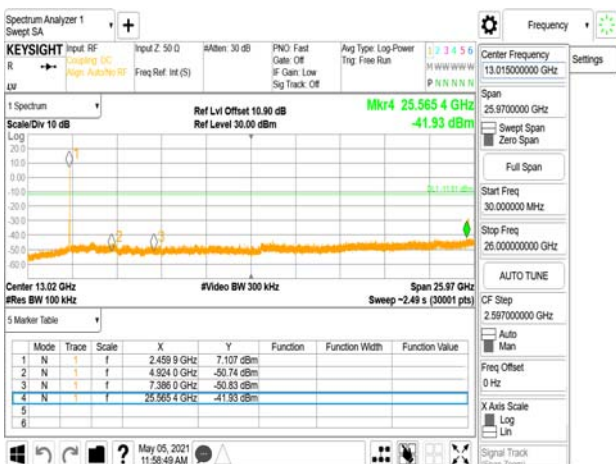
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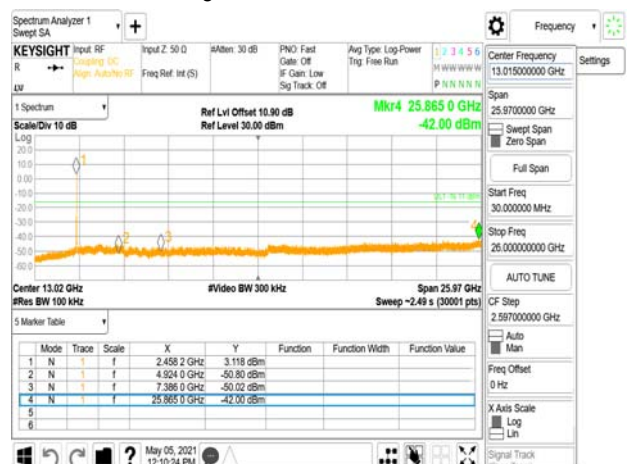
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



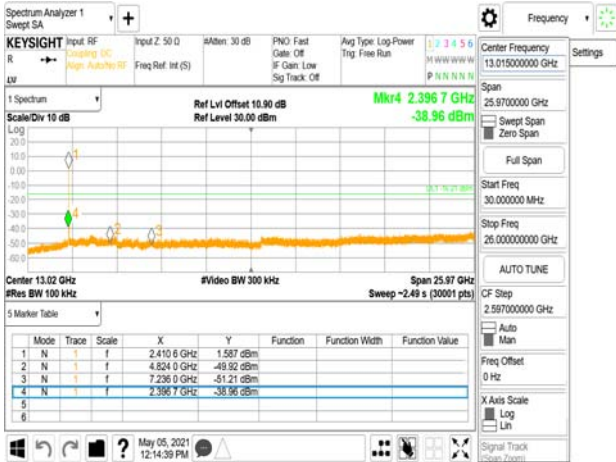
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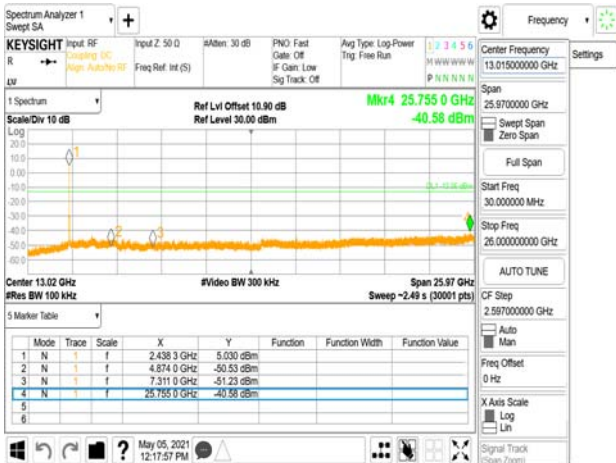
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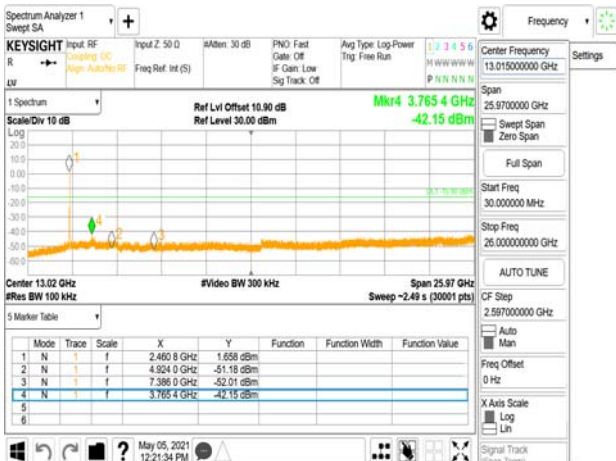
802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBµV/m) = 20 log Emission level (µV/m)

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11.2 Measurement Equipment Used:

| Radiated Emission Test Site: SAC 3 | | | | | |
|------------------------------------|-----------------|------------------|--------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/11/2020 | 12/10/2021 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1441 | 10/16/2020 | 10/15/2021 |
| Bi-log Antenna | SCHWAZBECK | VULB9168 | 378 | 08/06/2020 | 08/05/2021 |
| Loop Antenna | ETS.LIND-GREN | 6502 | 148045 | 10/19/2020 | 10/18/2021 |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY60240503 | 12/11/2020 | 12/10/2021 |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 07/13/2020 | 07/12/2021 |
| Pre-Amplifier | HP | 8449B | 3008A00578 | 12/16/2020 | 12/15/2021 |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 12/16/2020 | 12/15/2021 |
| Pre-Amplifier | HP | 8447D | 2944A07676 | 12/16/2020 | 12/15/2021 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 4 | 12/16/2020 | 12/15/2021 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M1 | 12/16/2020 | 12/15/2021 |
| High Pass Filter | WI | WHKX4.0/18G-10SS | 22 | 12/16/2020 | 12/15/2021 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY2636/2 | 12/16/2020 | 12/15/2021 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 104 | 340057/4 | 12/16/2020 | 12/15/2021 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 104PEA | 800052/2 | 12/16/2020 | 12/15/2021 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY2621/2 | 12/16/2020 | 12/15/2021 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY2617/2 | 12/16/2020 | 12/15/2021 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY2630/2 | 12/16/2020 | 12/15/2021 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY22962/2 | 12/16/2020 | 12/15/2021 |
| Site Cal | SGS | SAC III chamber | N/A | 01/01/2021 | 12/31/2021 |
| Test Software | audix | e3 | Ver. 6.11-20180413 | N.C.R | N.C.R |

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

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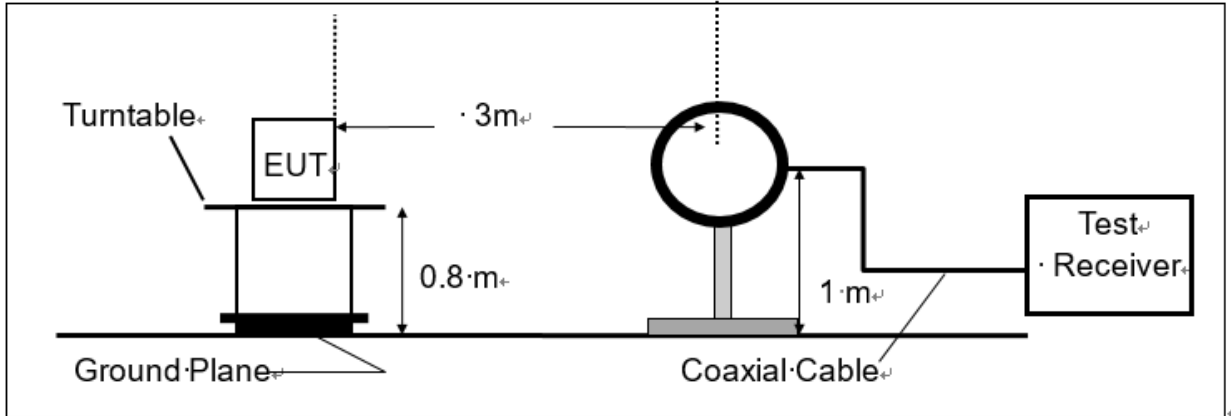
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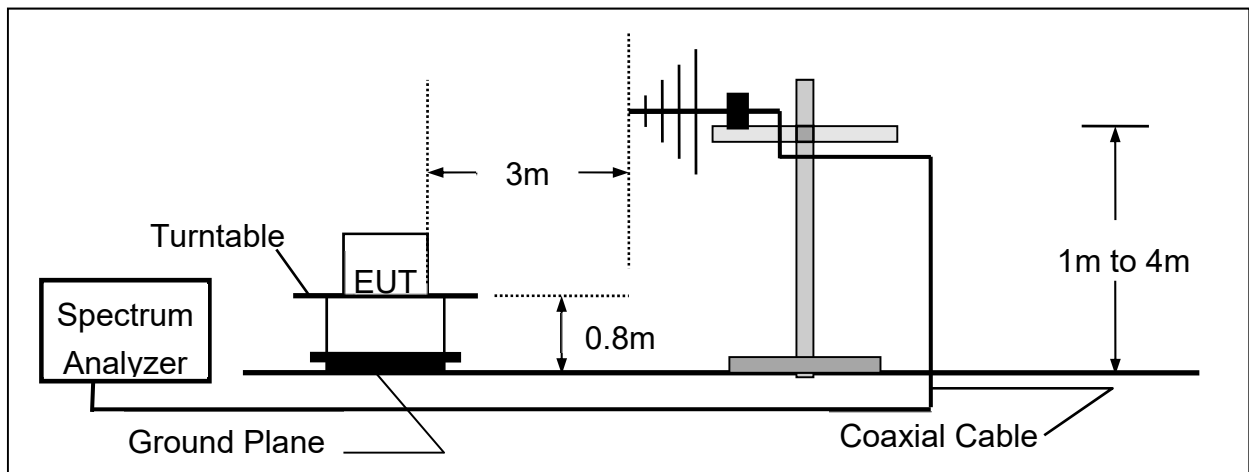
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11.3 Test SET-UP

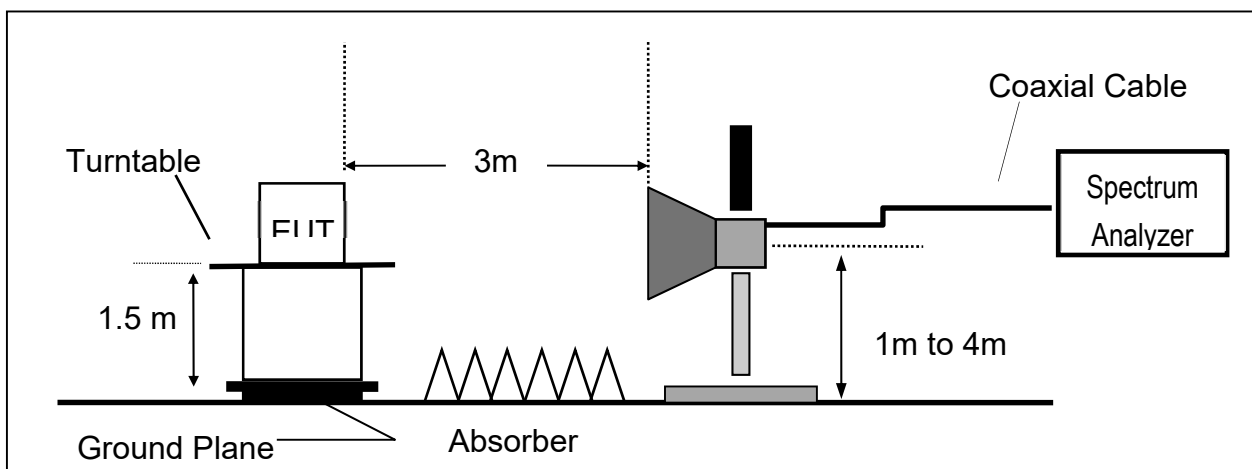
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 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. 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.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector 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 Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
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. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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11.5 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)

11.6 Test Results of Radiated Spurious Emissions form 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.

11.7 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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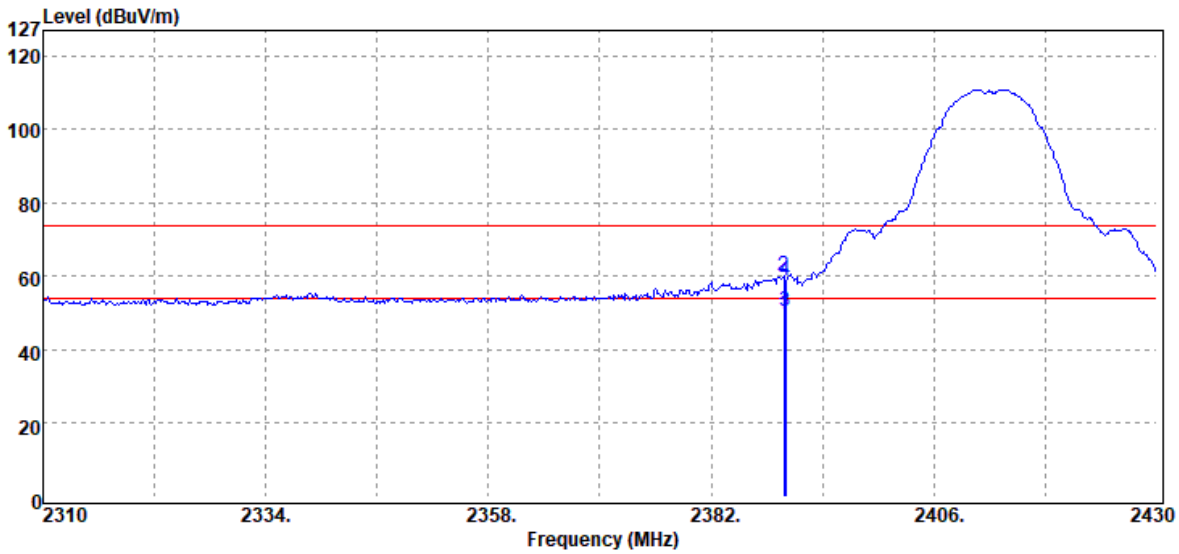
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11.7.1 Radiated Band Edge Measurement Result

| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2389.80 | Average | 48.78 | 0.76 | 49.54 | 54.00 | -4.46 |
| 2389.80 | Peak | 59.63 | 0.76 | 60.39 | 74.00 | -13.61 |
| 2390.00 | Average | 49.57 | 0.76 | 50.33 | 54.00 | -3.67 |
| 2390.00 | Peak | 58.06 | 0.76 | 58.82 | 74.00 | -15.18 |

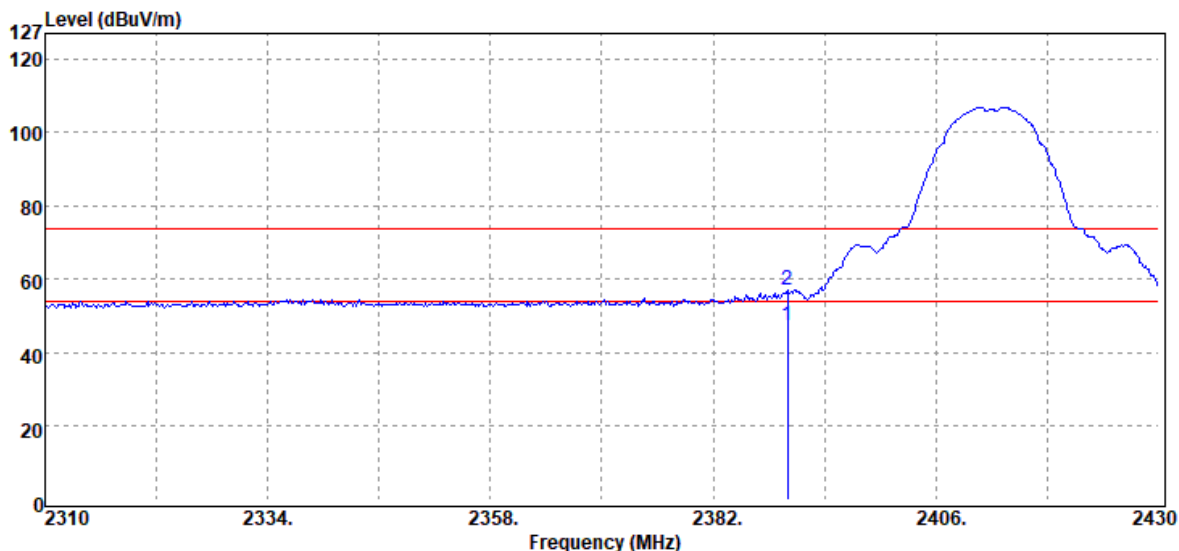
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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



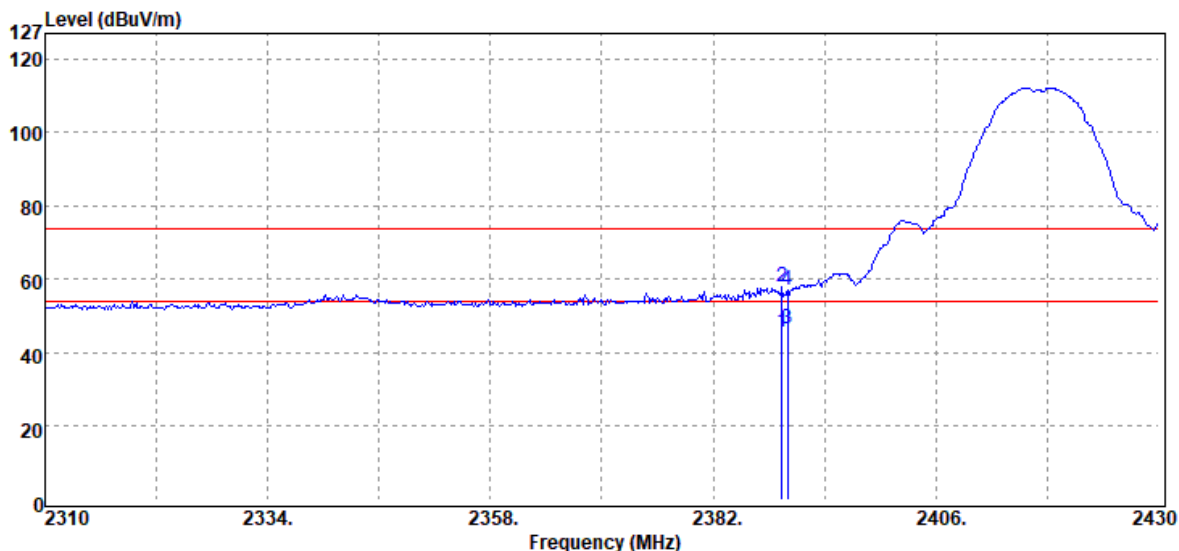
| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2390.00 | Average | 46.61 | 0.76 | 47.37 | 54.00 | -6.63 |
| 2390.00 | Peak | 56.18 | 0.76 | 56.94 | 74.00 | -17.06 |

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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2417 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2389.44 | Average | 44.77 | 0.76 | 45.53 | 54.00 | -8.47 |
| 2389.44 | Peak | 57.42 | 0.76 | 58.18 | 74.00 | -15.82 |
| 2390.00 | Average | 46.03 | 0.76 | 46.79 | 54.00 | -7.21 |
| 2390.00 | Peak | 56.32 | 0.76 | 57.08 | 74.00 | -16.92 |

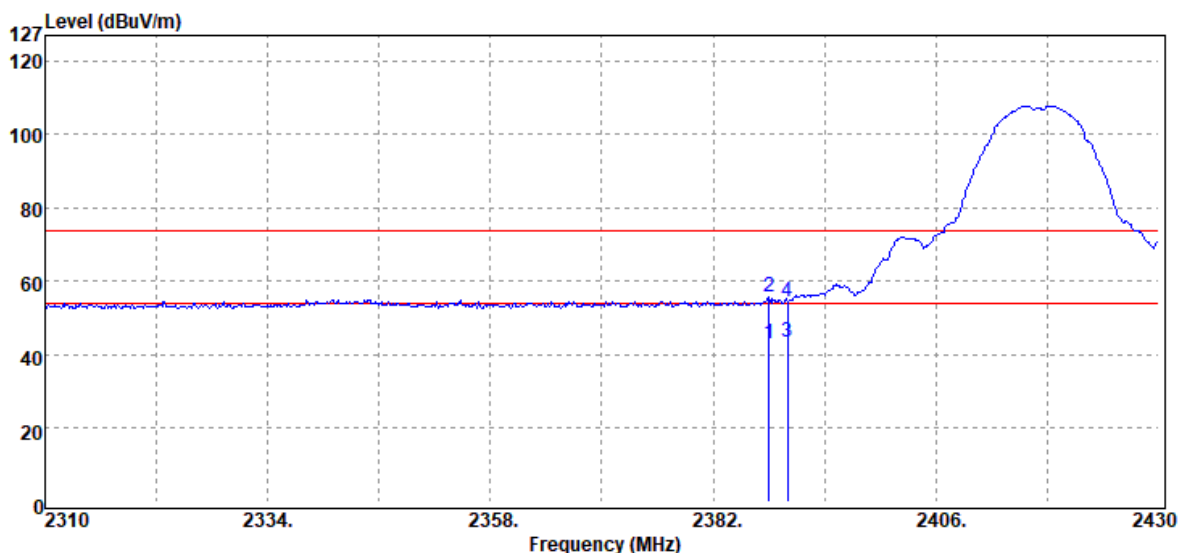
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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2417 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2388.00 | Average | 42.17 | 0.76 | 42.93 | 54.00 | -11.07 |
| 2388.00 | Peak | 54.86 | 0.76 | 55.62 | 74.00 | -18.38 |
| 2390.00 | Average | 42.82 | 0.76 | 43.58 | 54.00 | -10.42 |
| 2390.00 | Peak | 53.85 | 0.76 | 54.61 | 74.00 | -19.39 |

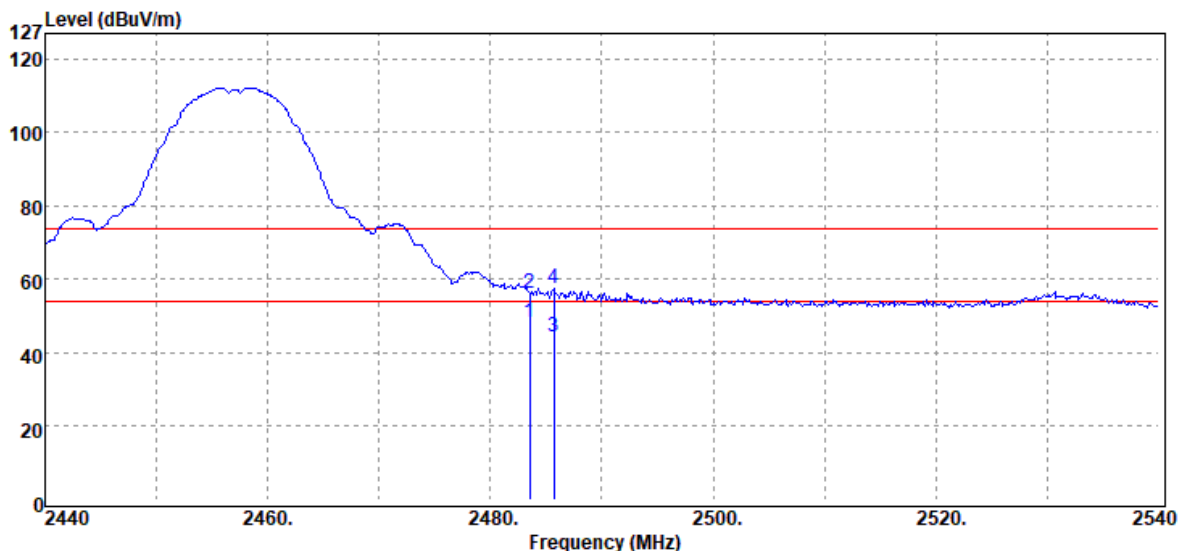
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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2457 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | Average | 47.70 | 0.54 | 48.24 | 54.00 | -5.76 |
| 2483.50 | Peak | 55.79 | 0.54 | 56.33 | 74.00 | -17.67 |
| 2485.70 | Average | 44.05 | 0.54 | 44.59 | 54.00 | -9.41 |
| 2485.70 | Peak | 57.18 | 0.54 | 57.72 | 74.00 | -16.28 |

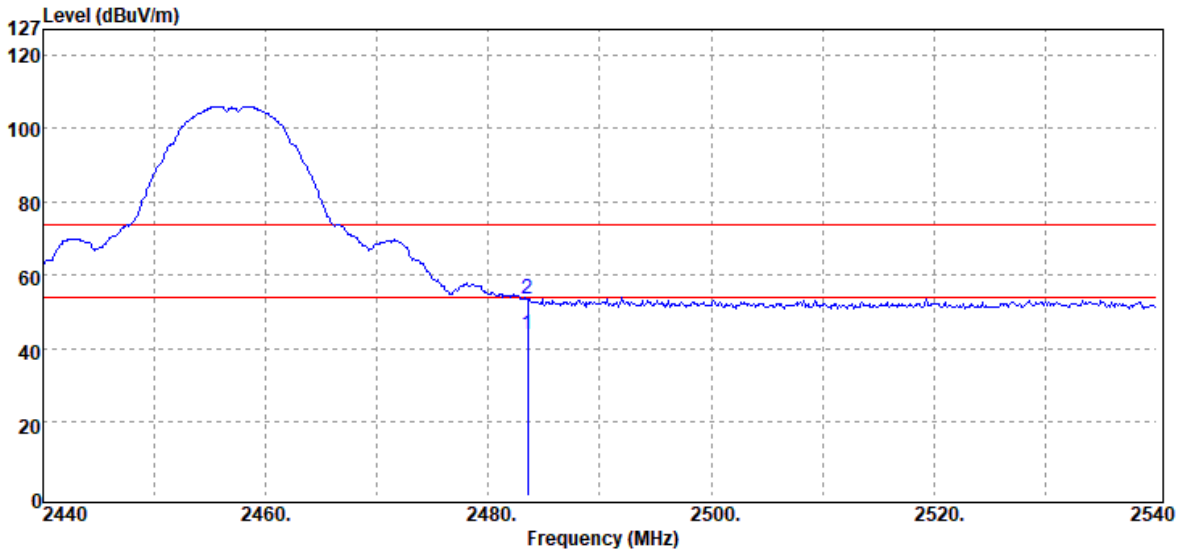
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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2457 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 43.31 | 0.54 | 43.85 | 54.00 | -10.15 |
| 2483.50 | Peak | 52.86 | 0.54 | 53.40 | 74.00 | -20.60 |

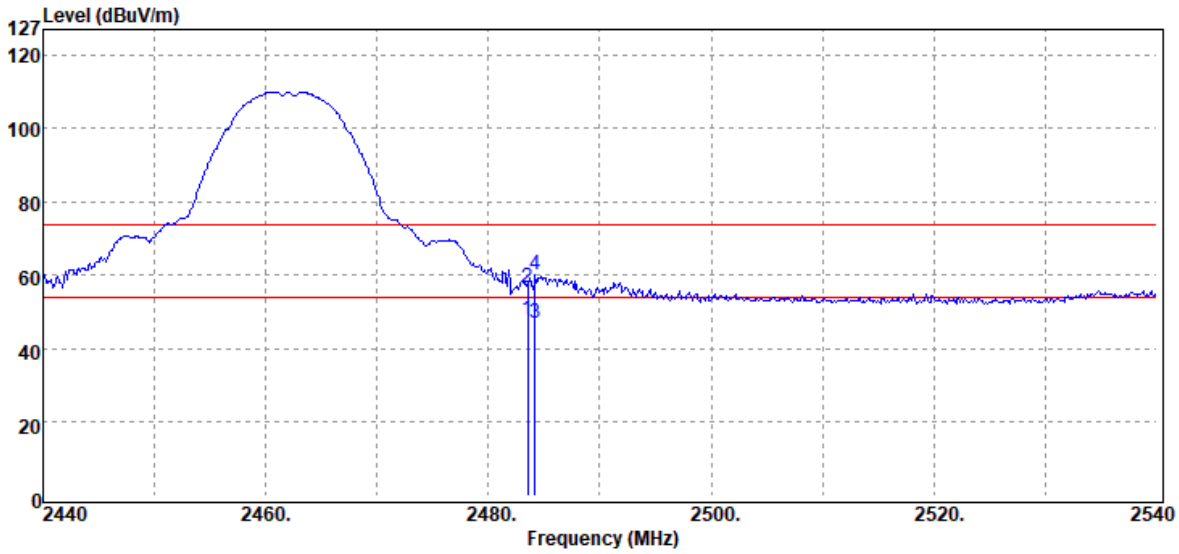
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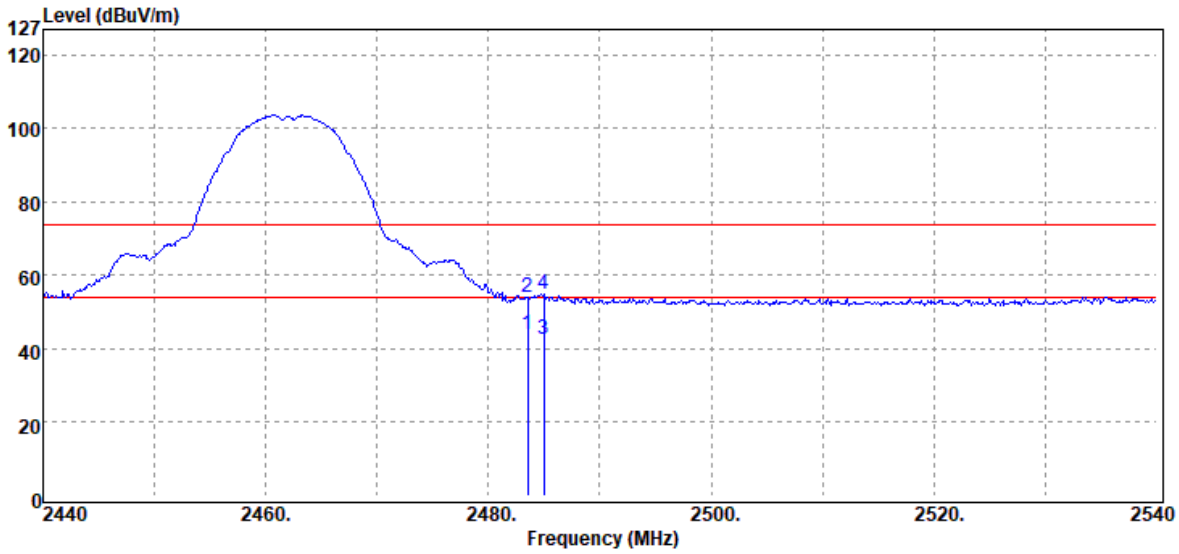
| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2483.50 | Average | 47.48 | 0.54 | 48.02 | 54.00 | -5.98 |
| 2483.50 | Peak | 56.13 | 0.54 | 56.67 | 74.00 | -17.33 |
| 2484.20 | Average | 46.48 | 0.54 | 47.02 | 54.00 | -6.98 |
| 2484.20 | Peak | 59.73 | 0.54 | 60.27 | 74.00 | -13.73 |

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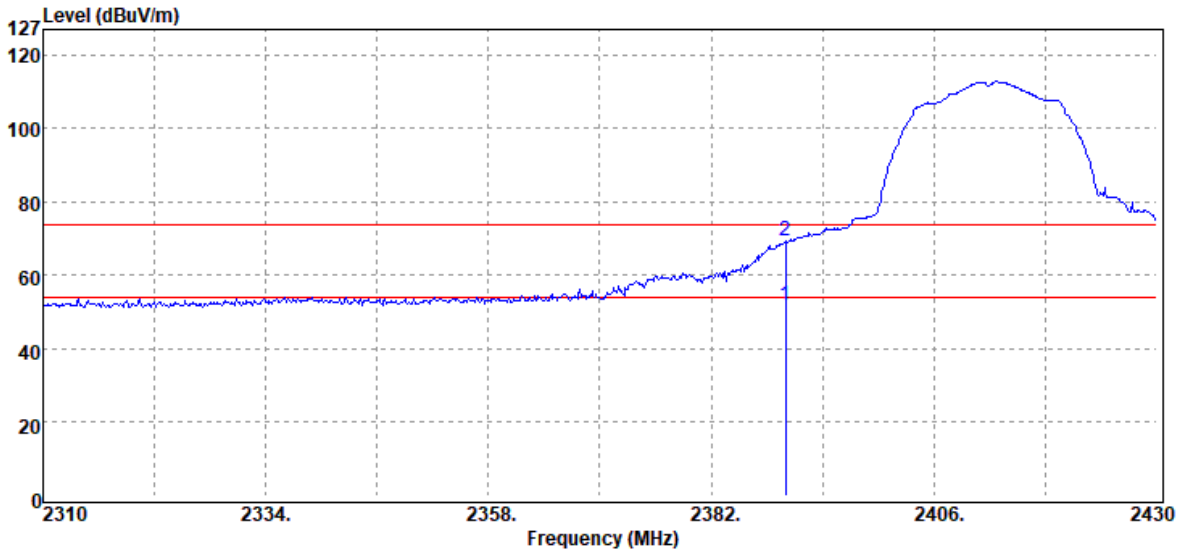
| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | Average | 43.19 | 0.54 | 43.73 | 54.00 | -10.27 |
| 2483.50 | Peak | 53.57 | 0.54 | 54.11 | 74.00 | -19.89 |
| 2485.00 | Average | 42.19 | 0.54 | 42.73 | 54.00 | -11.27 |
| 2485.00 | Peak | 54.39 | 0.54 | 54.93 | 74.00 | -19.07 |

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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |

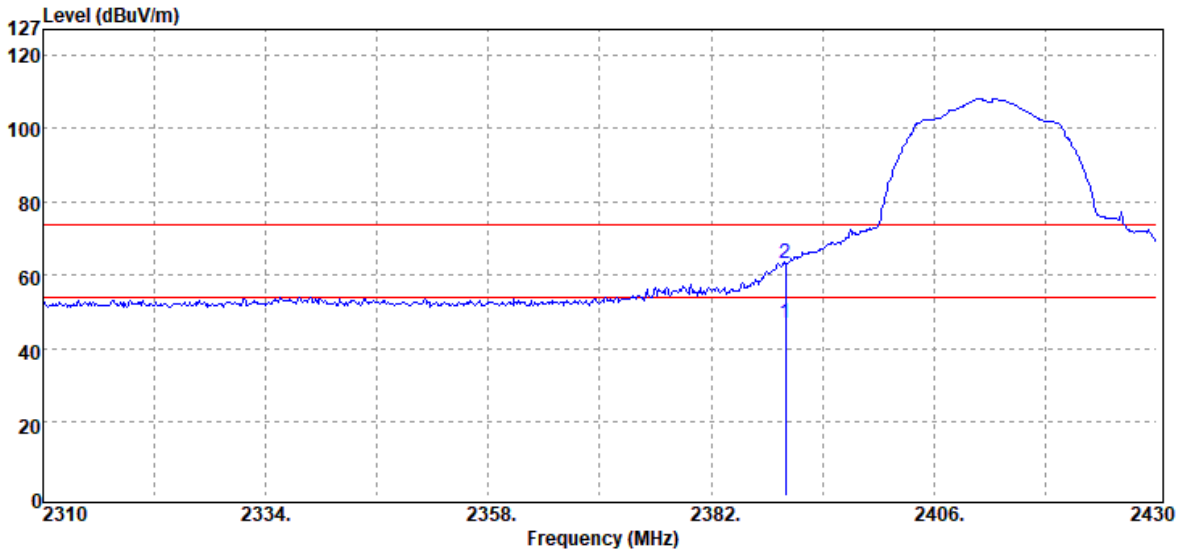


| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2390.00 | Average | 51.08 | 0.76 | 51.84 | 54.00 | -2.16 |
| 2390.00 | Peak | 68.52 | 0.76 | 69.28 | 74.00 | -4.72 |

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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |

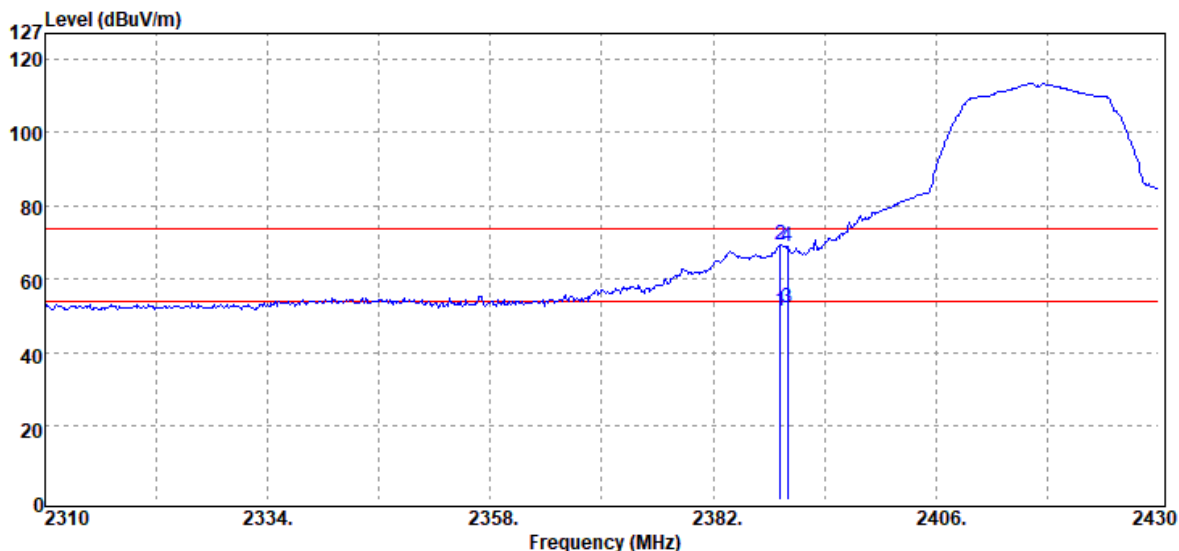


| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2390.00 | Average | 46.39 | 0.76 | 47.15 | 54.00 | -6.85 |
| 2390.00 | Peak | 62.55 | 0.76 | 63.31 | 74.00 | -10.69 |

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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2417 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2389.20 | Average | 50.72 | 0.76 | 51.48 | 54.00 | -2.52 |
| 2389.20 | Peak | 68.72 | 0.76 | 69.48 | 74.00 | -4.52 |
| 2390.00 | Average | 51.33 | 0.76 | 52.09 | 54.00 | -1.91 |
| 2390.00 | Peak | 68.25 | 0.76 | 69.01 | 74.00 | -4.99 |

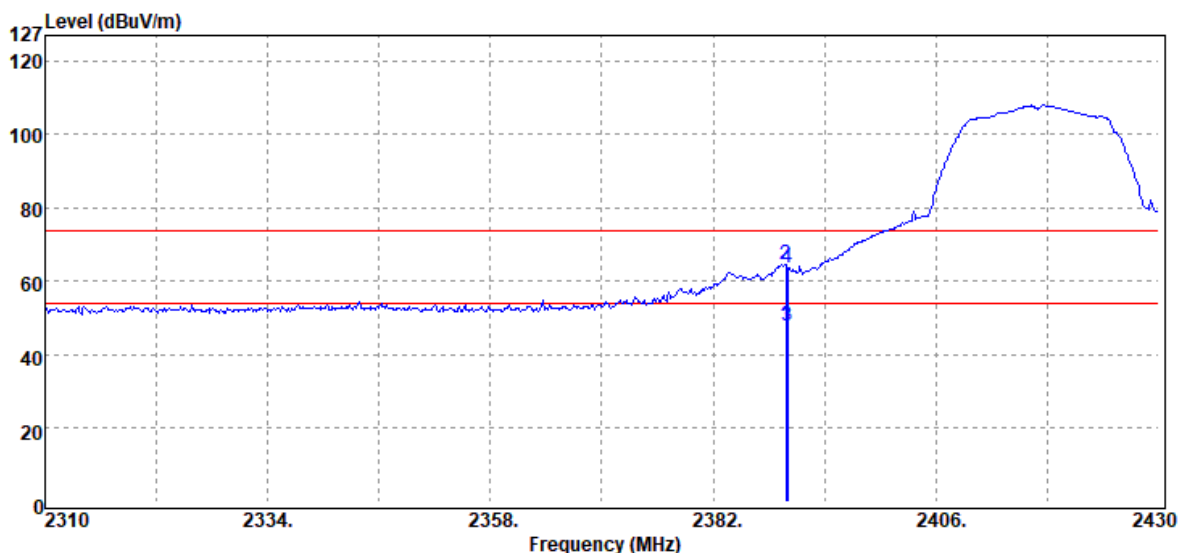
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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2417 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2389.80 | Average | 47.01 | 0.76 | 47.77 | 54.00 | -6.23 |
| 2389.80 | Peak | 63.93 | 0.76 | 64.69 | 74.00 | -9.31 |
| 2390.00 | Average | 47.29 | 0.76 | 48.05 | 54.00 | -5.95 |
| 2390.00 | Peak | 62.84 | 0.76 | 63.60 | 74.00 | -10.40 |

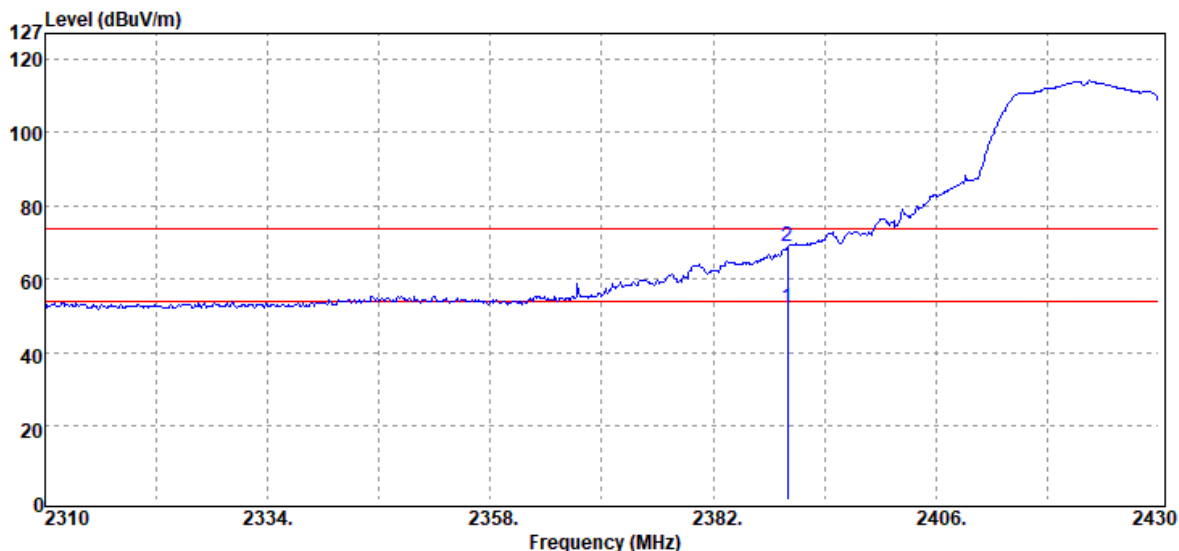
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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2422 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2390.00 | Average | 51.35 | 0.76 | 52.11 | 54.00 | -1.89 |
| 2390.00 | Peak | 68.05 | 0.76 | 68.81 | 74.00 | -5.19 |

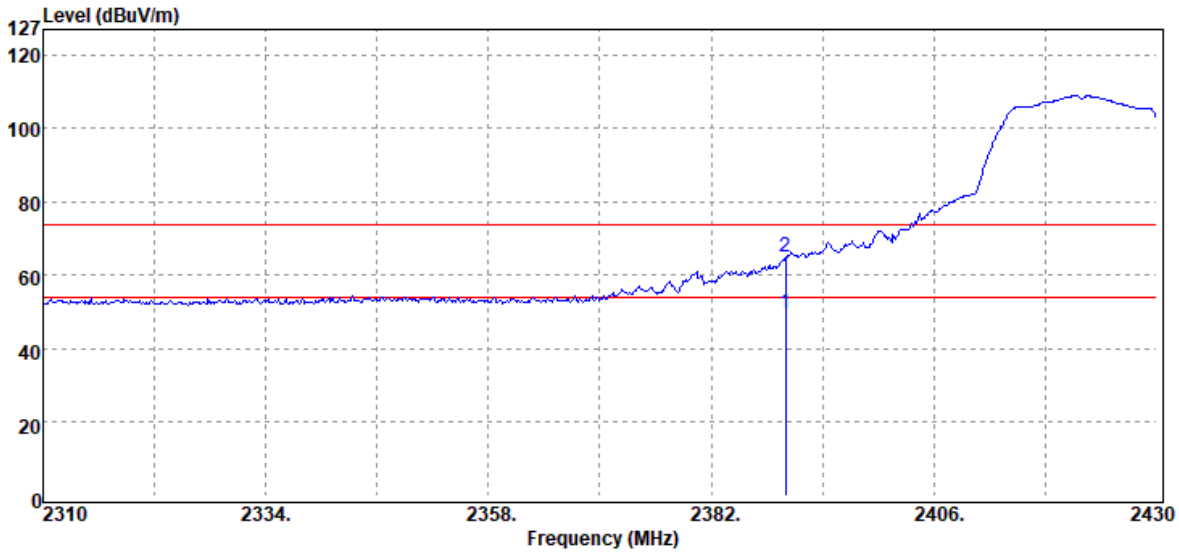
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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2422 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2390.00 | Average | 48.82 | 0.76 | 49.58 | 54.00 | -4.42 |
| 2390.00 | Peak | 64.14 | 0.76 | 64.90 | 74.00 | -9.10 |

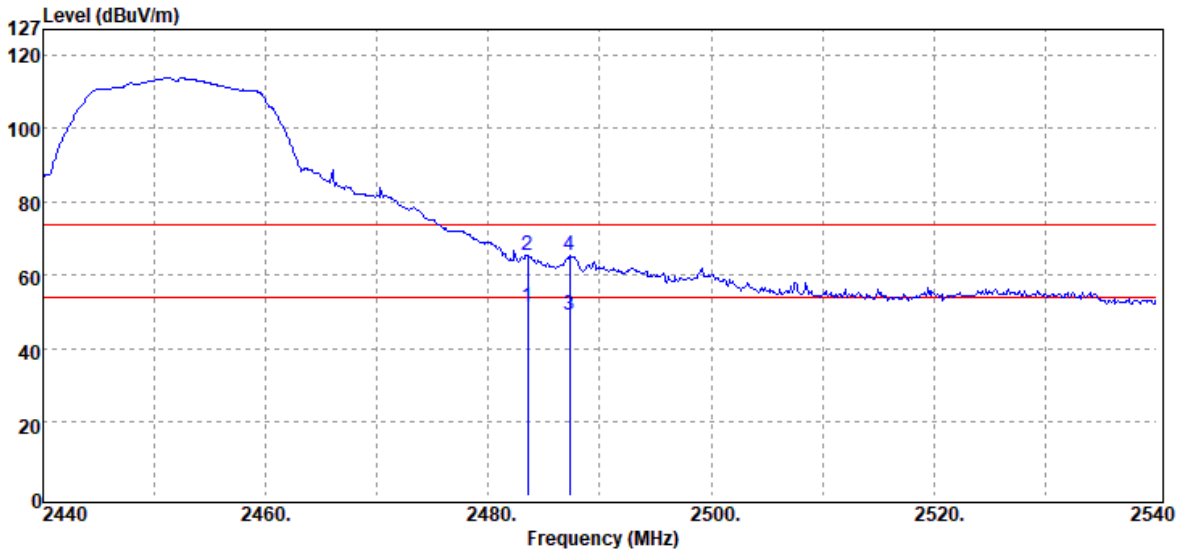
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|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2452 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | Average | 50.90 | 0.54 | 51.44 | 54.00 | -2.56 |
| 2483.50 | Peak | 64.85 | 0.54 | 65.39 | 74.00 | -8.61 |
| 2487.30 | Average | 48.82 | 0.54 | 49.36 | 54.00 | -4.64 |
| 2487.30 | Peak | 64.86 | 0.54 | 65.40 | 74.00 | -8.60 |

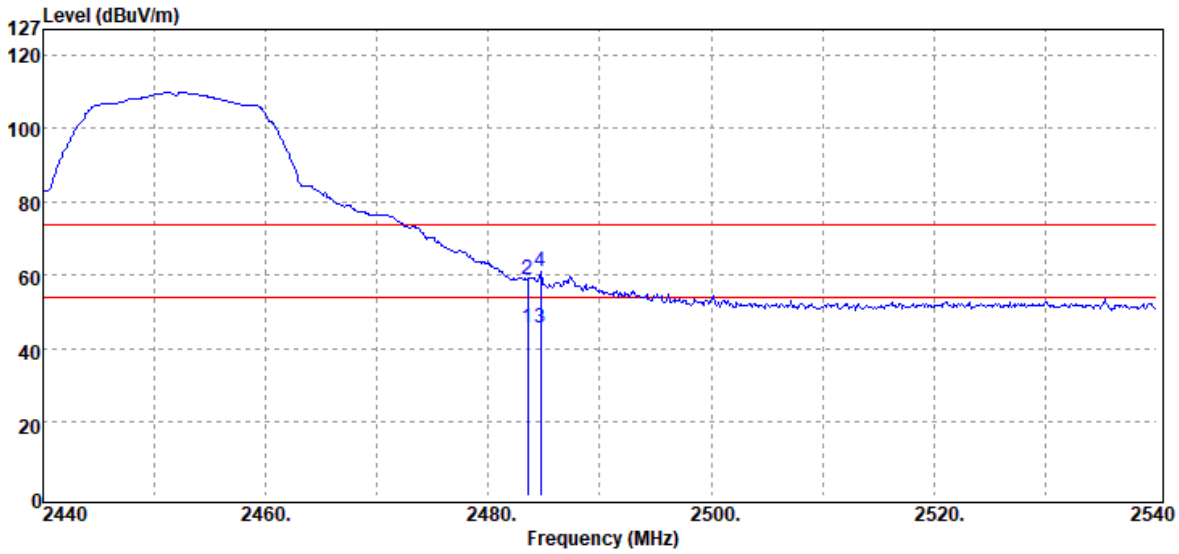
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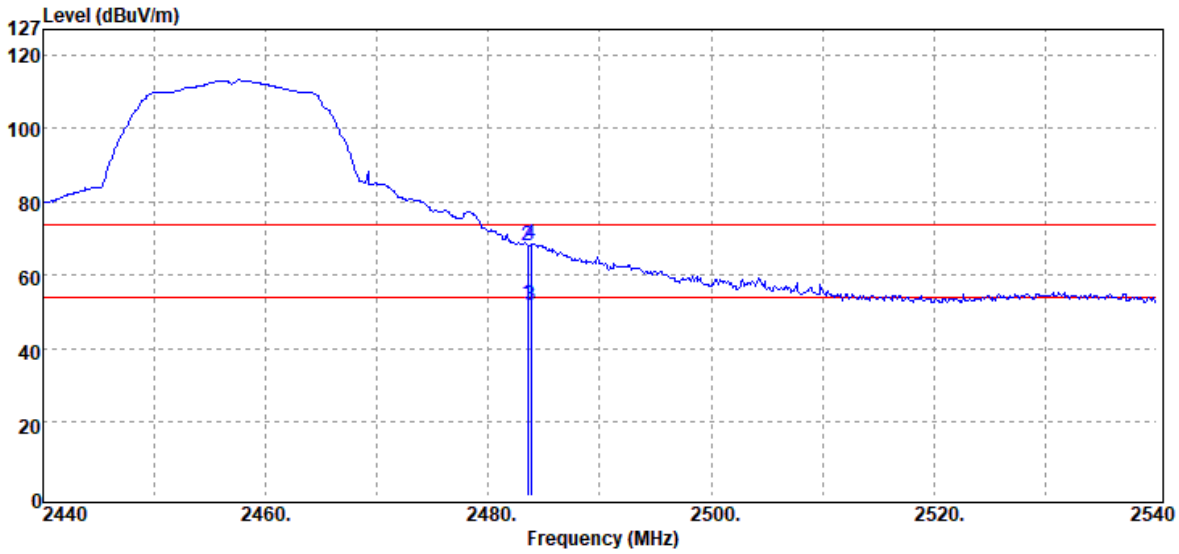
| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2452 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | Average | 45.31 | 0.54 | 45.85 | 54.00 | -8.15 |
| 2483.50 | Peak | 58.50 | 0.54 | 59.04 | 74.00 | -14.96 |
| 2484.70 | Average | 44.96 | 0.54 | 45.50 | 54.00 | -8.50 |
| 2484.70 | Peak | 60.35 | 0.54 | 60.89 | 74.00 | -13.11 |

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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2457 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | Average | 51.54 | 0.54 | 52.08 | 54.00 | -1.92 |
| 2483.50 | Peak | 67.67 | 0.54 | 68.21 | 74.00 | -5.79 |
| 2483.80 | Average | 51.42 | 0.54 | 51.96 | 54.00 | -2.04 |
| 2483.80 | Peak | 68.17 | 0.54 | 68.71 | 74.00 | -5.29 |

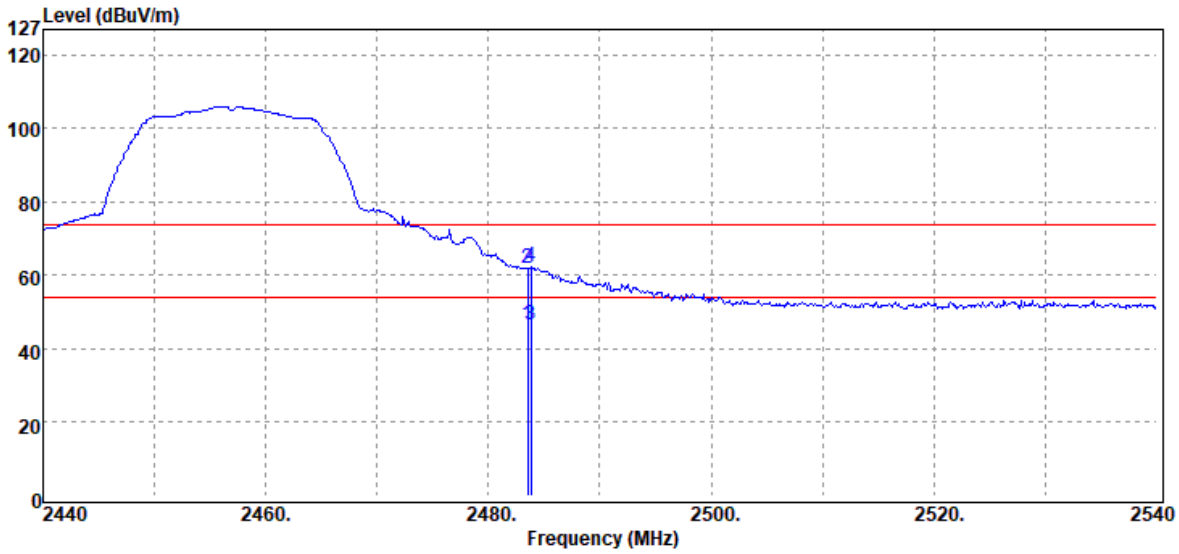
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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2457 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | Average | 45.83 | 0.54 | 46.37 | 54.00 | -7.63 |
| 2483.50 | Peak | 61.59 | 0.54 | 62.13 | 74.00 | -11.87 |
| 2483.80 | Average | 45.95 | 0.54 | 46.49 | 54.00 | -7.51 |
| 2483.80 | Peak | 61.77 | 0.54 | 62.31 | 74.00 | -11.69 |

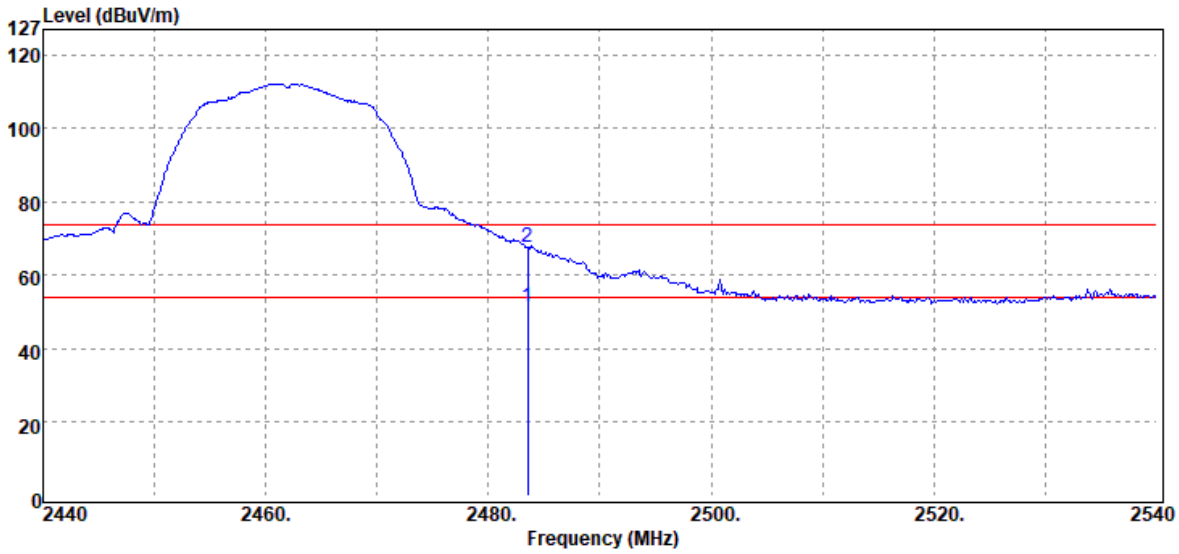
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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |

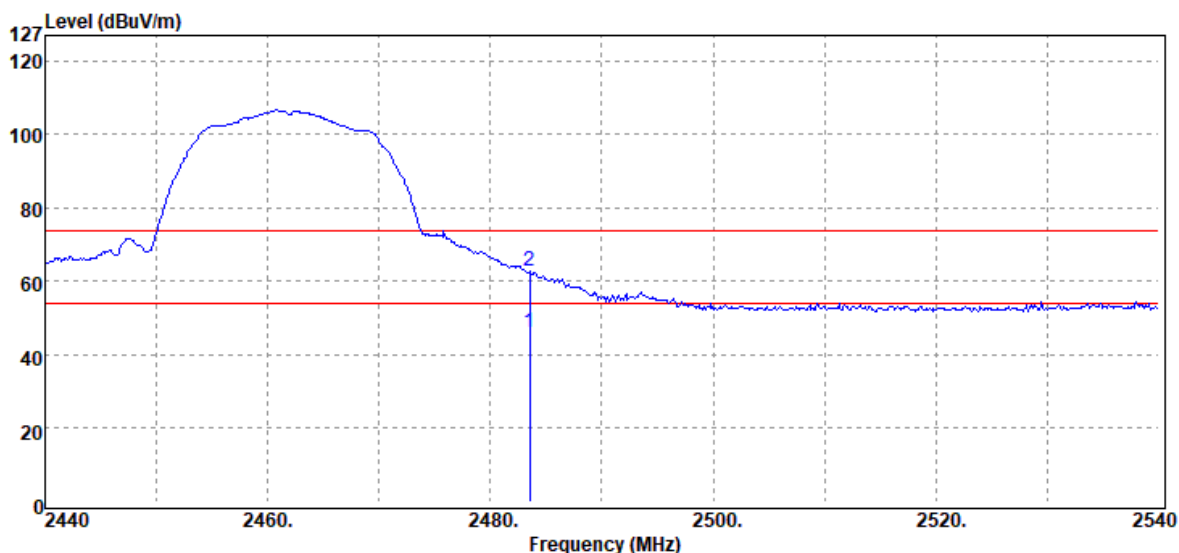


| Freq. MHz | Detector Mode | Spectrum Reading Level dBUV | Factor dB | Actual FS dBUV/m | Limit @3m dBUV/m | Margin dB |
|--------------|------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50 | Average | 50.79 | 0.54 | 51.33 | 54.00 | -2.67 |
| 2483.50 | Peak | 66.96 | 0.54 | 67.50 | 74.00 | -6.50 |

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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBUV | Factor dB | Actual FS dBUV/m | Limit @3m dBUV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50 | Average | 45.66 | 0.54 | 46.20 | 54.00 | -7.80 |
| 2483.50 | Peak | 62.17 | 0.54 | 62.71 | 74.00 | -11.29 |

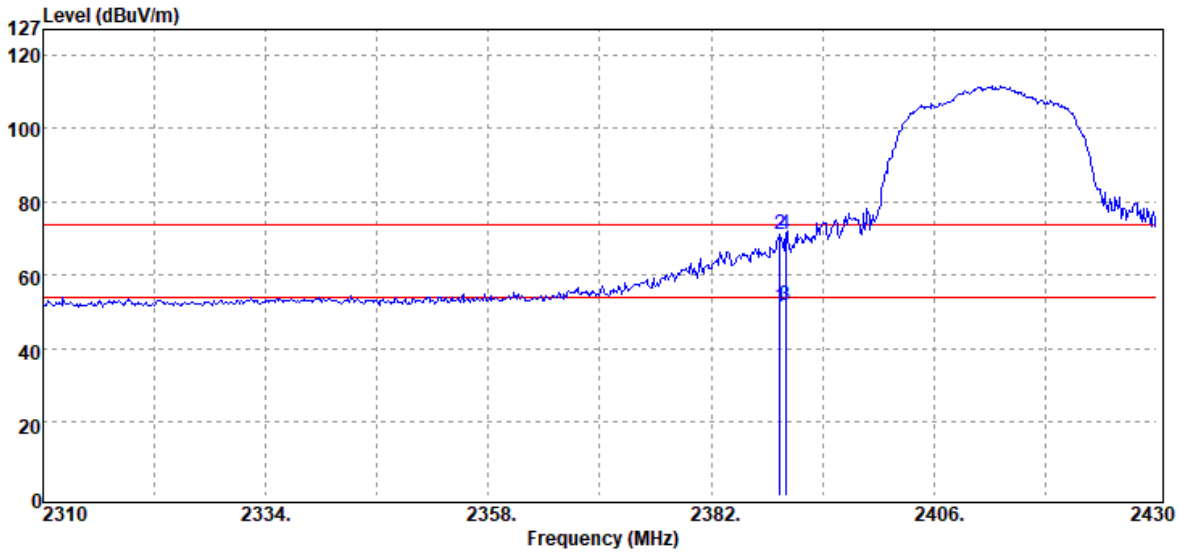
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|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |

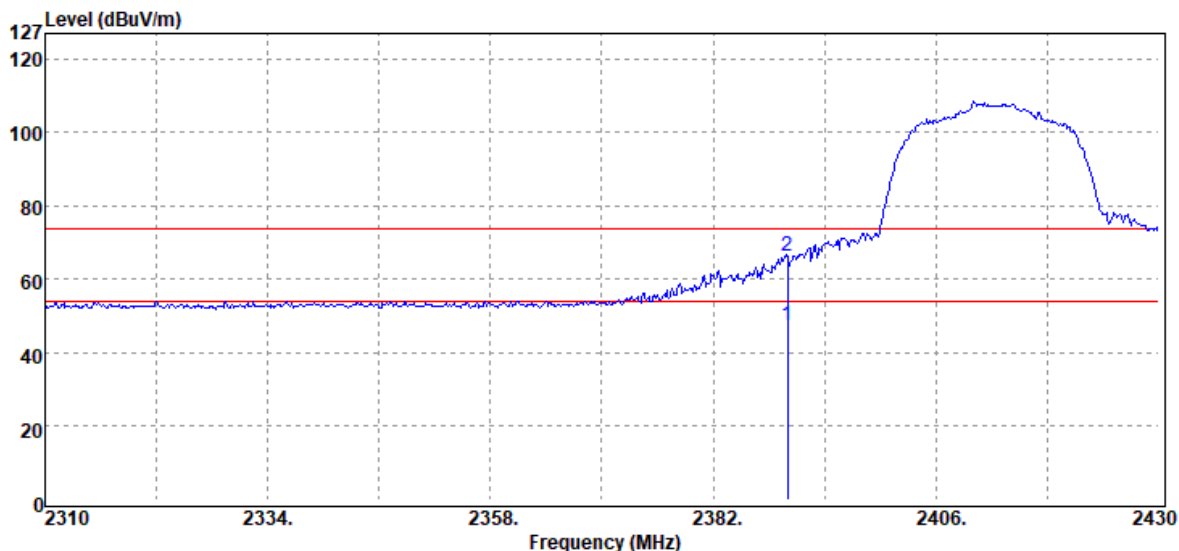


| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2389.44 | Average | 50.58 | 0.76 | 51.34 | 54.00 | -2.66 |
| 2389.44 | Peak | 70.27 | 0.76 | 71.03 | 74.00 | -2.97 |
| 2390.00 | Average | 51.19 | 0.76 | 51.95 | 54.00 | -2.05 |
| 2390.00 | Peak | 70.28 | 0.76 | 71.04 | 74.00 | -2.96 |

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|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2390.00 | Average | 46.60 | 0.76 | 47.36 | 54.00 | -6.64 |
| 2390.00 | Peak | 65.44 | 0.76 | 66.20 | 74.00 | -7.80 |

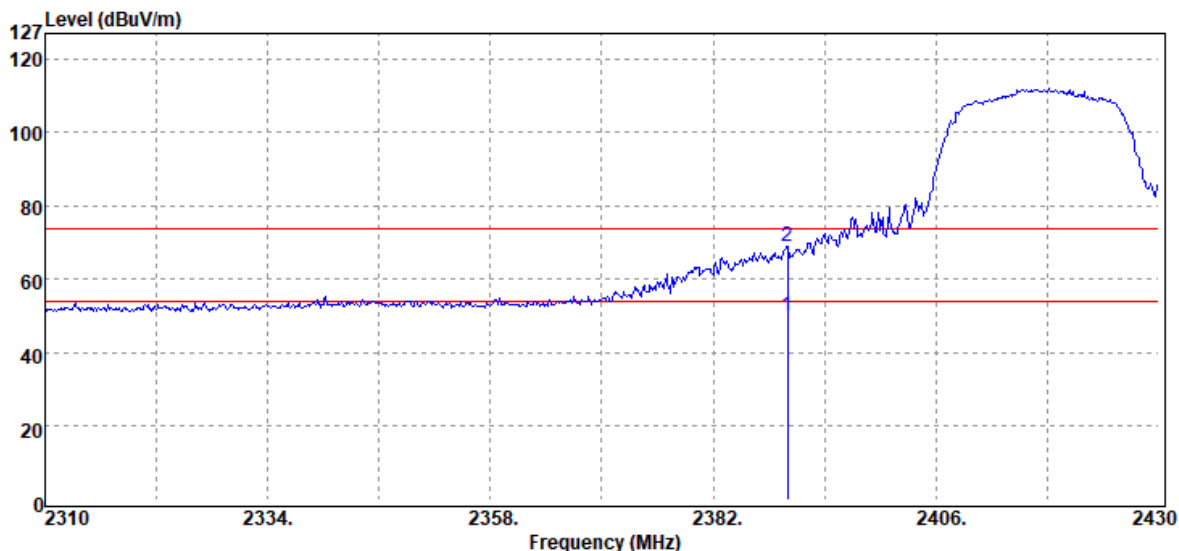
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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2417 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



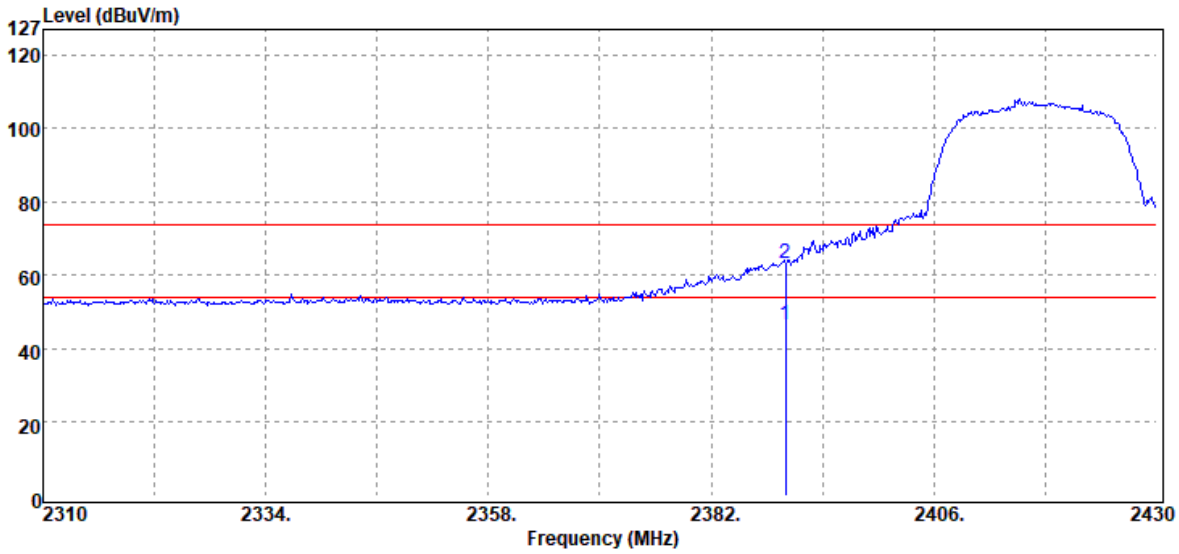
| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2390.00 | Average | 49.42 | 0.76 | 50.18 | 54.00 | -3.82 |
| 2390.00 | Peak | 68.45 | 0.76 | 69.21 | 74.00 | -4.79 |

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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2417 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |

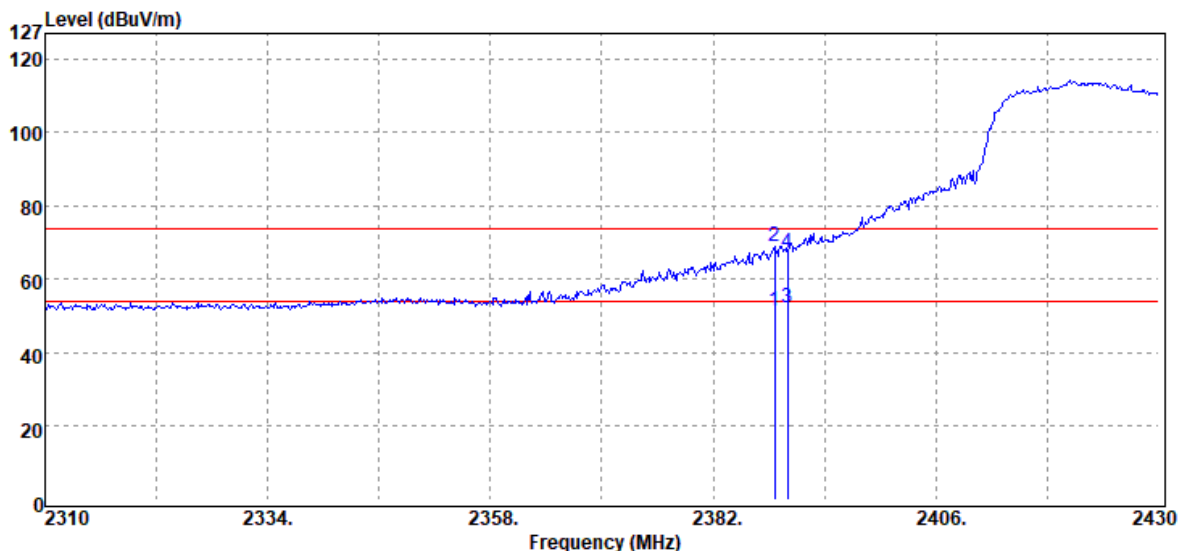


| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2390.00 | Average | 45.61 | 0.76 | 46.37 | 54.00 | -7.63 |
| 2390.00 | Peak | 62.41 | 0.76 | 63.17 | 74.00 | -10.83 |

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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2422 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2388.60 | Average | 50.85 | 0.76 | 51.61 | 54.00 | -2.39 |
| 2388.60 | Peak | 68.40 | 0.76 | 69.16 | 74.00 | -4.84 |
| 2390.00 | Average | 51.65 | 0.76 | 52.41 | 54.00 | -1.59 |
| 2390.00 | Peak | 66.62 | 0.76 | 67.38 | 74.00 | -6.62 |

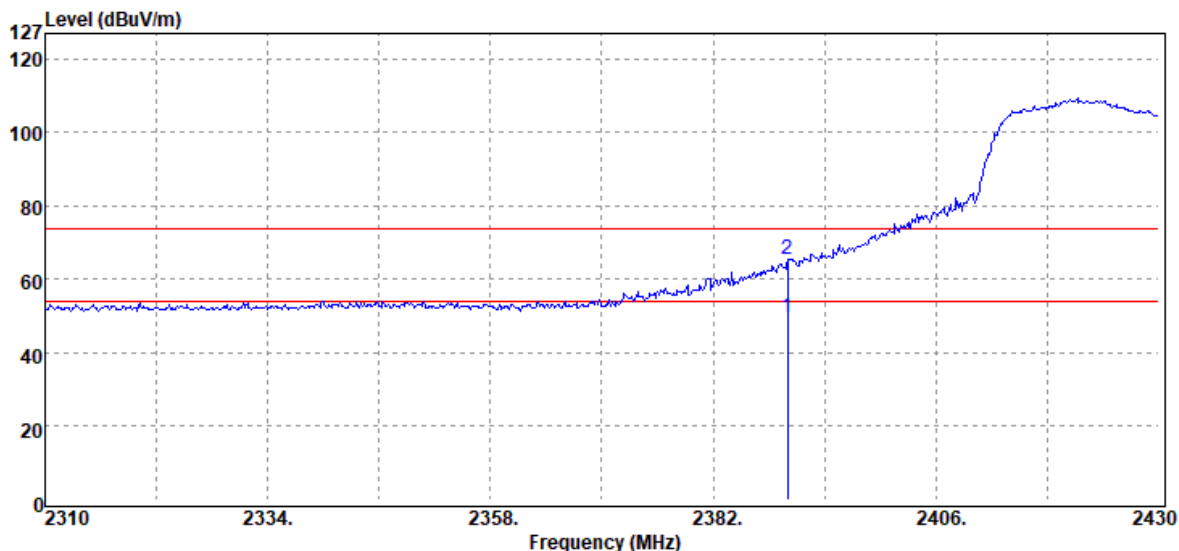
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| | | | |
|----------------|------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2422 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2390.00 | Average | 48.80 | 0.76 | 49.56 | 54.00 | -4.44 |
| 2390.00 | Peak | 64.60 | 0.76 | 65.36 | 74.00 | -8.64 |

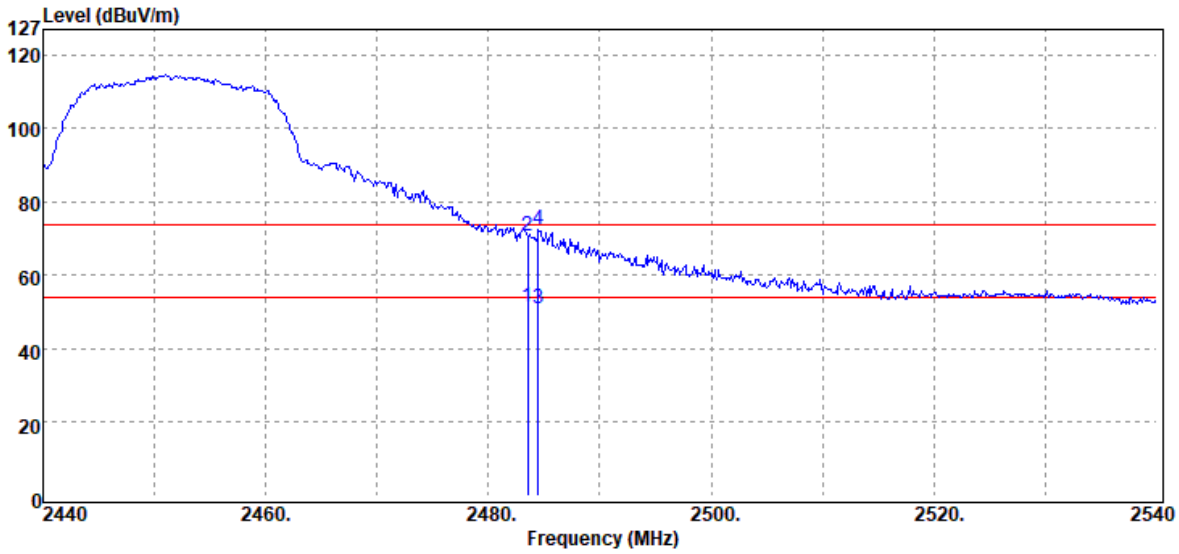
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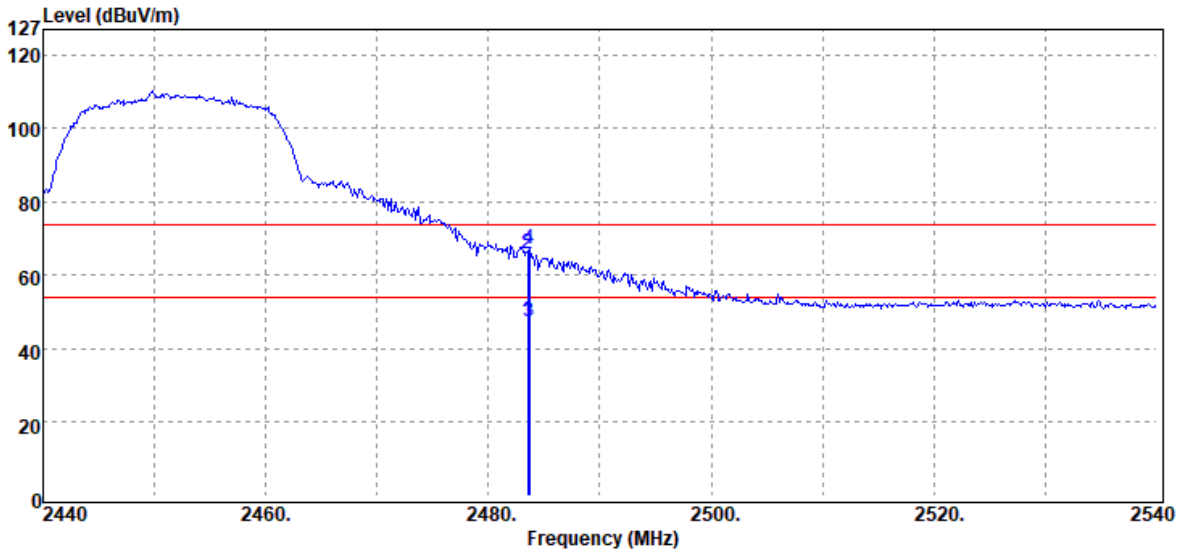
| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2452 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | Average | 50.86 | 0.54 | 51.40 | 54.00 | -2.60 |
| 2483.50 | Peak | 70.13 | 0.54 | 70.67 | 74.00 | -3.33 |
| 2484.50 | Average | 50.23 | 0.54 | 50.77 | 54.00 | -3.23 |
| 2484.50 | Peak | 71.79 | 0.54 | 72.33 | 74.00 | -1.67 |

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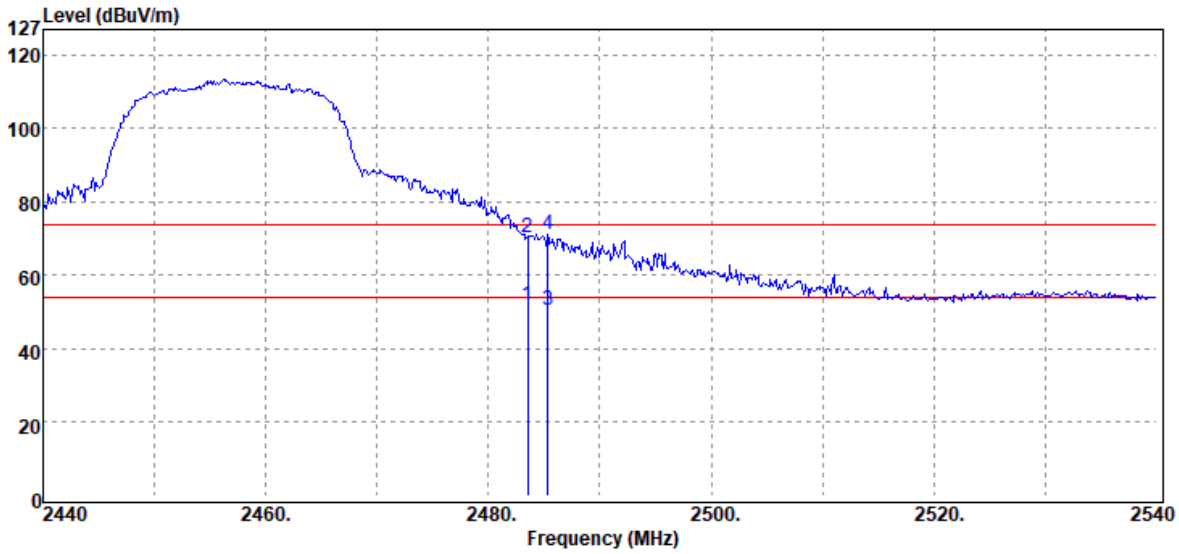
| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2452 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| | PK/QP/AV | dB μ V | | dB μ V/m | dB μ V/m | |
| 2483.50 | Average | 46.73 | 0.54 | 47.27 | 54.00 | -6.73 |
| 2483.50 | Peak | 65.36 | 0.54 | 65.90 | 74.00 | -8.10 |
| 2483.70 | Average | 46.80 | 0.54 | 47.34 | 54.00 | -6.66 |
| 2483.70 | Peak | 66.87 | 0.54 | 67.41 | 74.00 | -6.59 |

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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2457 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 51.44 | 0.54 | 51.98 | 54.00 | -2.02 |
| 2483.50 | Peak | 69.87 | 0.54 | 70.41 | 74.00 | -3.59 |
| 2485.30 | Average | 49.91 | 0.54 | 50.45 | 54.00 | -3.55 |
| 2485.30 | Peak | 70.62 | 0.54 | 71.16 | 74.00 | -2.84 |

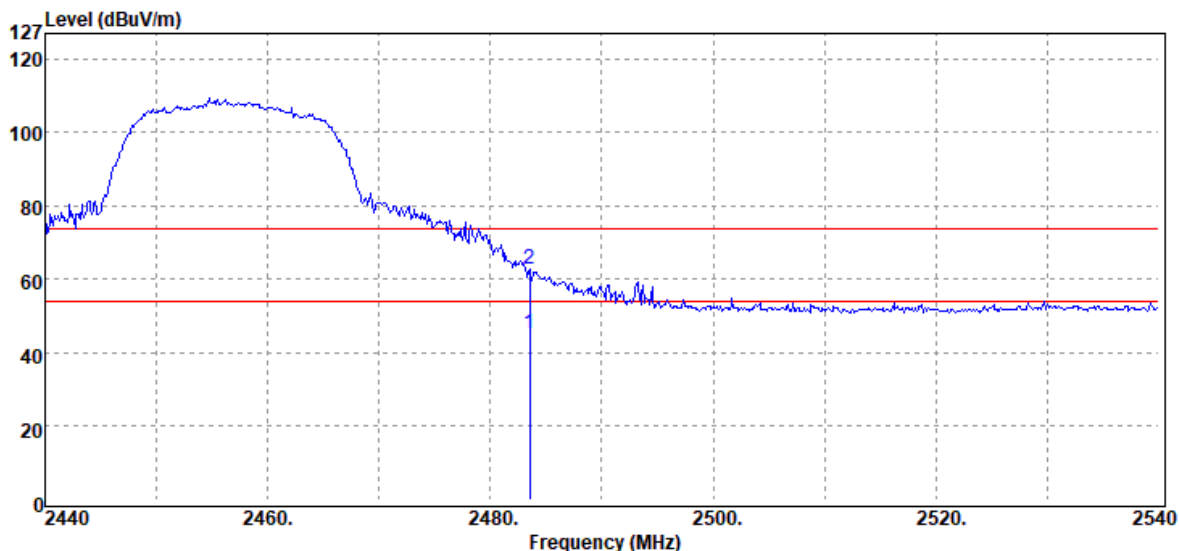
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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2457 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 44.93 | 0.54 | 45.47 | 54.00 | -8.53 |
| 2483.50 | Peak | 62.38 | 0.54 | 62.92 | 74.00 | -11.08 |

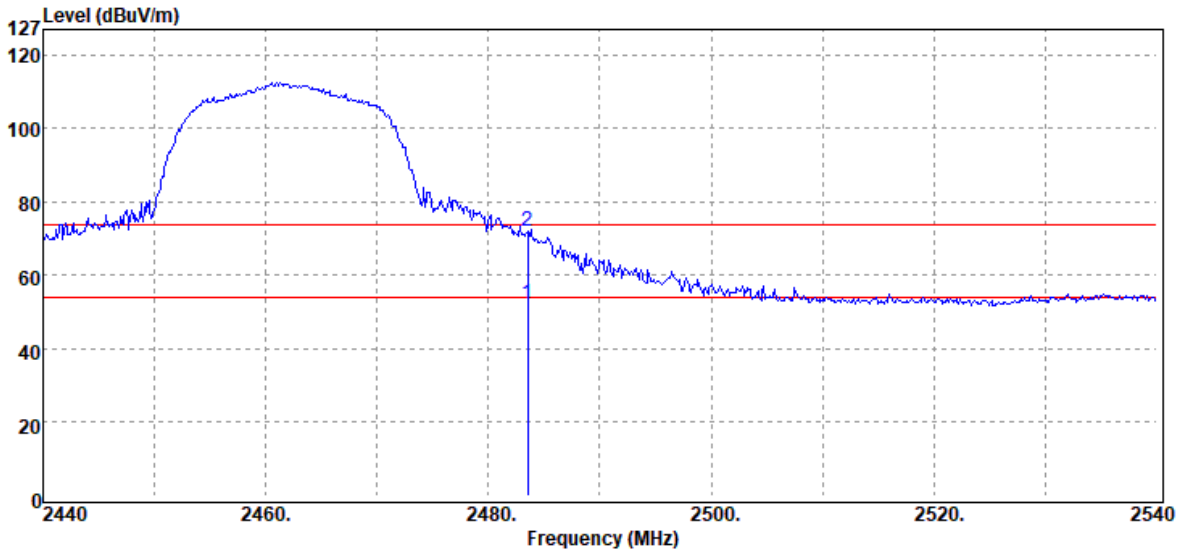
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|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 51.67 | 0.54 | 52.21 | 54.00 | -1.79 |
| 2483.50 | Peak | 71.74 | 0.54 | 72.28 | 74.00 | -1.72 |

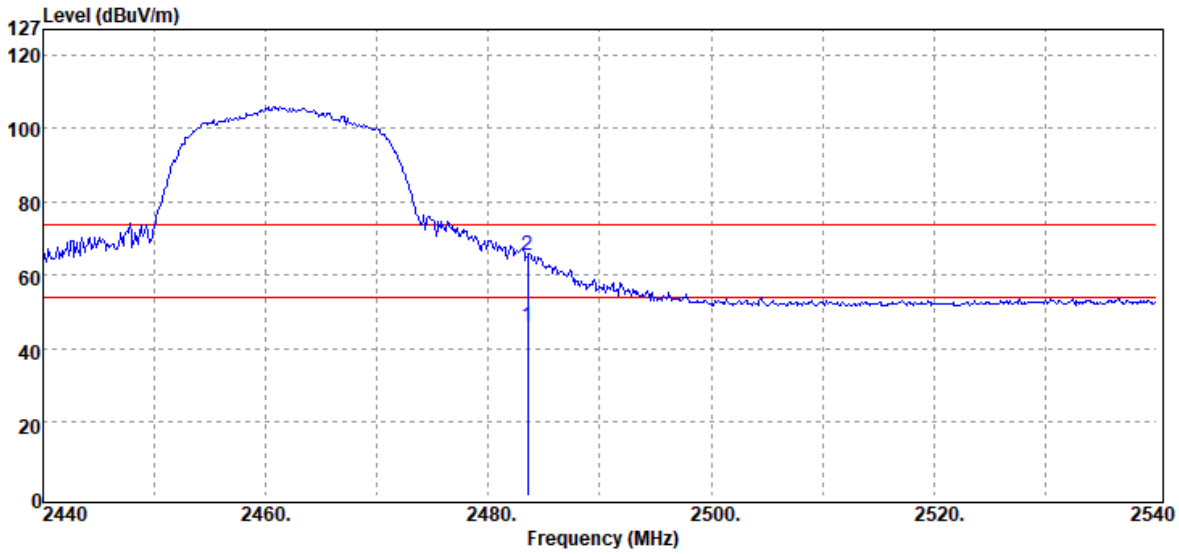
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| | | | |
|----------------|-------------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Bandedge CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Nick Lin |

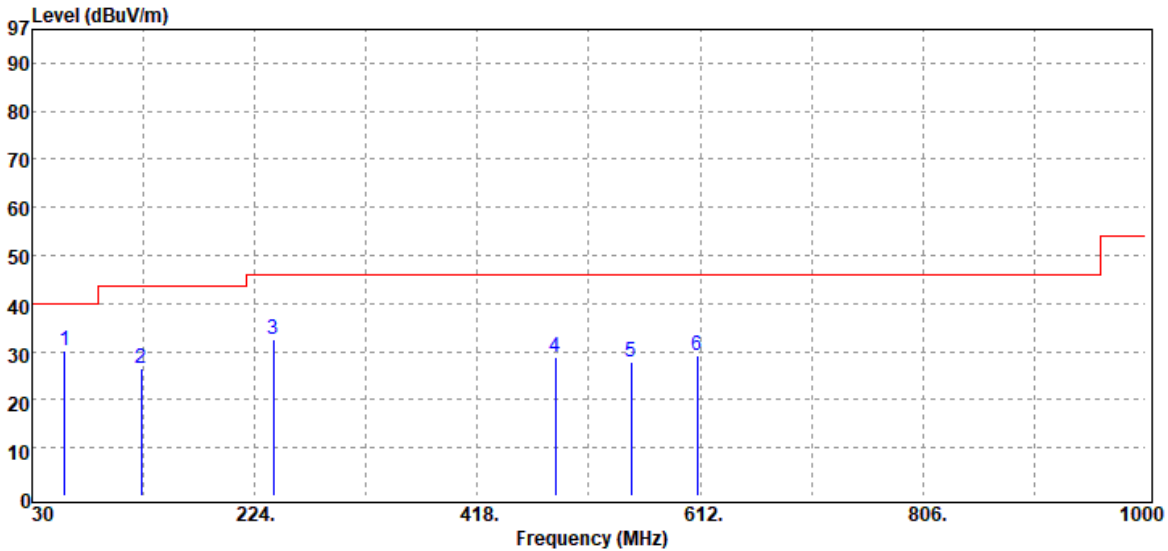


| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 45.76 | 0.54 | 46.30 | 54.00 | -7.70 |
| 2483.50 | Peak | 64.88 | 0.54 | 65.42 | 74.00 | -8.58 |

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11.7.2 Below 1GHz Worst-Case Emission:

| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2437 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |

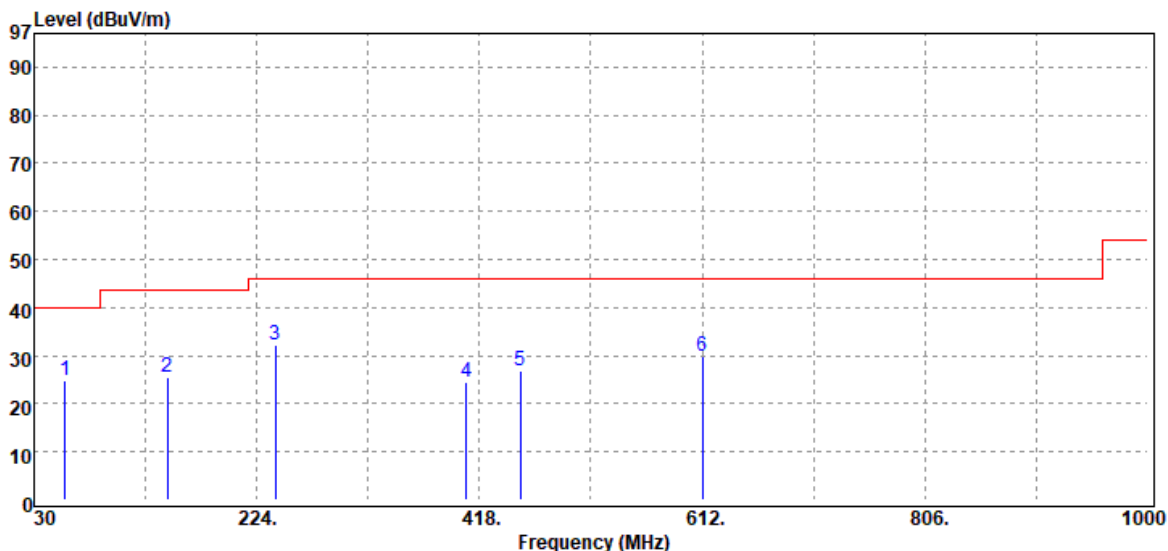


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBUV/m | Limit @3m dBUV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 58.13 | Peak | 39.36 | -9.10 | 30.26 | 40.00 | -9.74 |
| 125.06 | Peak | 35.92 | -9.37 | 26.55 | 43.50 | -16.95 |
| 240.49 | Peak | 41.42 | -8.80 | 32.62 | 46.00 | -13.38 |
| 485.90 | Peak | 31.68 | -2.97 | 28.71 | 46.00 | -17.29 |
| 551.86 | Peak | 29.34 | -1.46 | 27.88 | 46.00 | -18.12 |
| 609.09 | Peak | 28.52 | 0.72 | 29.24 | 46.00 | -16.76 |

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Report Number :ER-2021-40062
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC III Chamber
Test Date :2021-04-22
Temp./Humi. :24.1/63
Antenna Pol. :HORIZONTAL
Engineer :Ricky Chen



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 57.16 | Peak | 33.78 | -8.99 | 24.79 | 40.00 | -15.21 |
| 146.40 | Peak | 33.54 | -7.87 | 25.67 | 43.50 | -17.83 |
| 240.49 | Peak | 40.93 | -8.80 | 32.13 | 46.00 | -13.87 |
| 406.36 | Peak | 29.22 | -4.60 | 24.62 | 46.00 | -21.38 |
| 453.89 | Peak | 29.34 | -2.65 | 26.69 | 46.00 | -19.31 |
| 612.00 | Peak | 29.36 | 0.62 | 29.98 | 46.00 | -16.02 |

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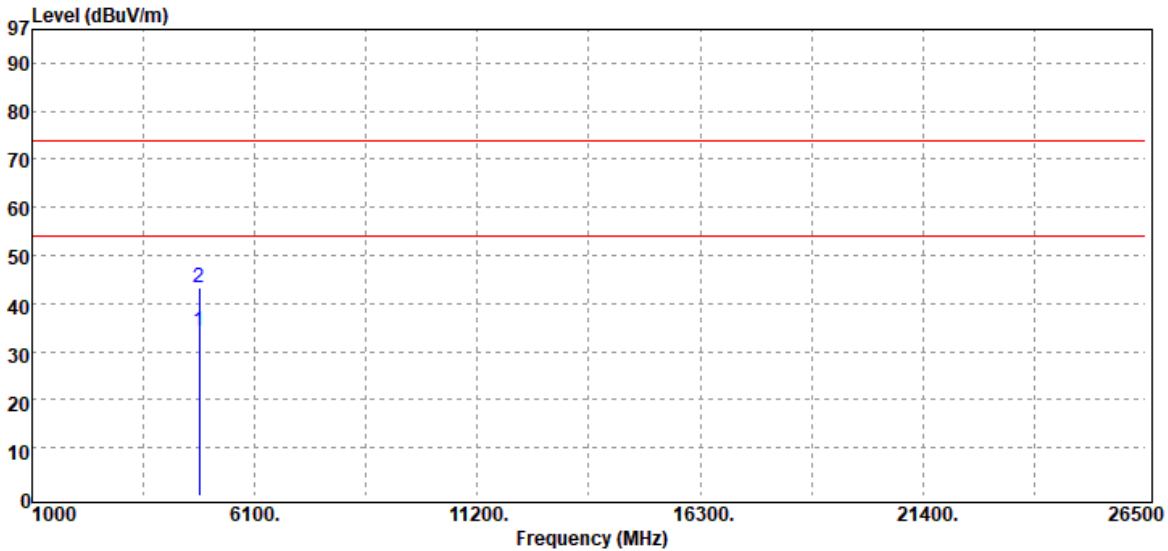
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11.7.3 Above 1GHz Emission:

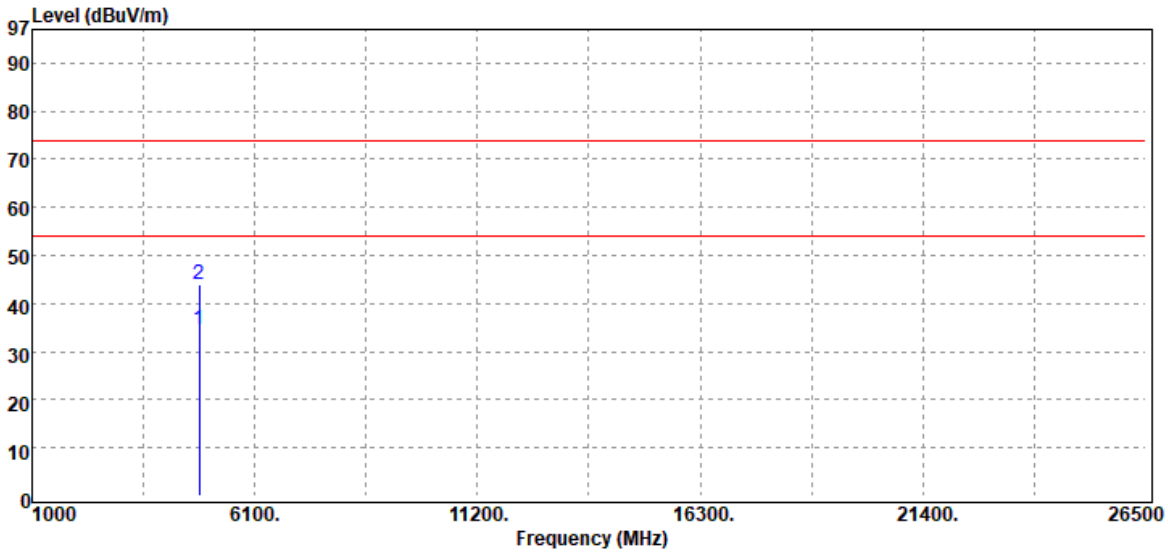
| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00 | Average | 26.92 | 7.38 | 34.30 | 54.00 | -19.70 |
| 4824.00 | Peak | 35.97 | 7.38 | 43.35 | 74.00 | -30.65 |

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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |

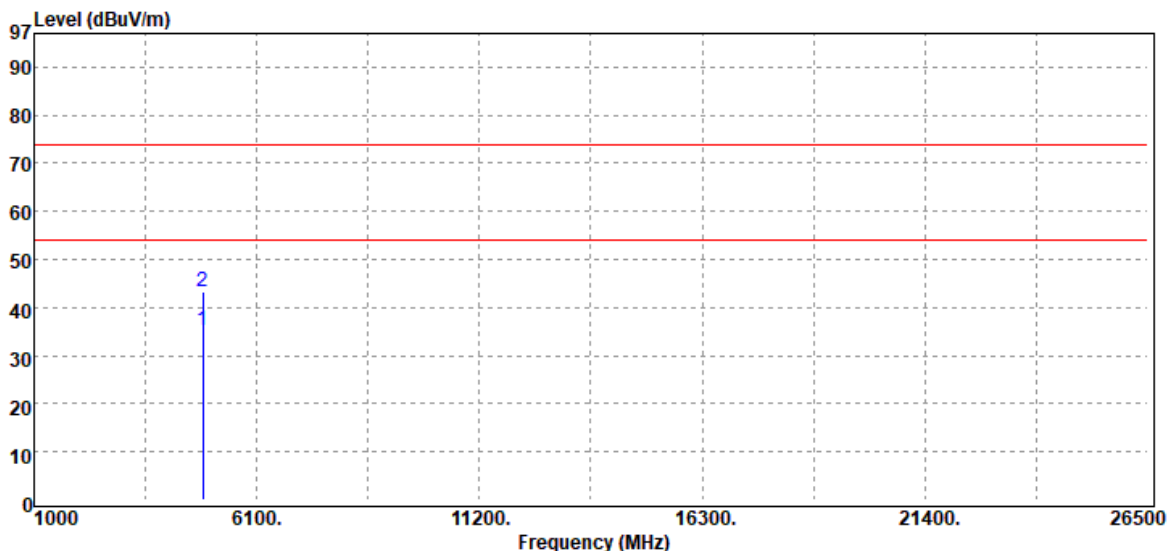


| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.00 | Average | 27.21 | 7.38 | 34.59 | 54.00 | -19.41 |
| 4824.00 | Peak | 36.58 | 7.38 | 43.96 | 74.00 | -30.04 |

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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2437 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dBµV | dB | dBµV/m | dBµV/m | dB |
| 4874.00 | Average | 28.06 | 7.09 | 35.15 | 54.00 | -18.85 |
| 4874.00 | Peak | 36.16 | 7.09 | 43.25 | 74.00 | -30.75 |

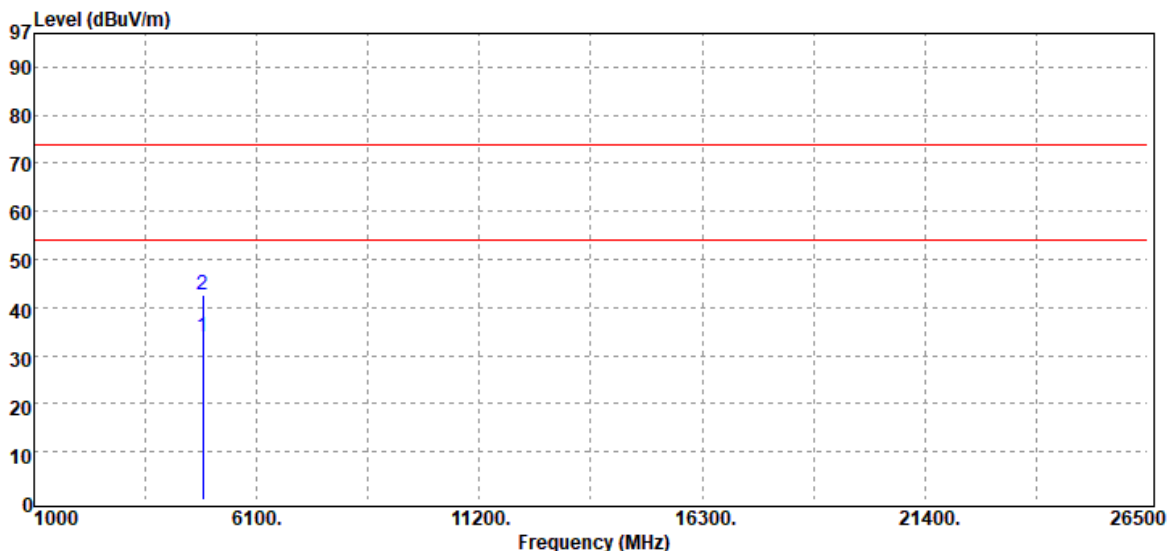
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2437 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



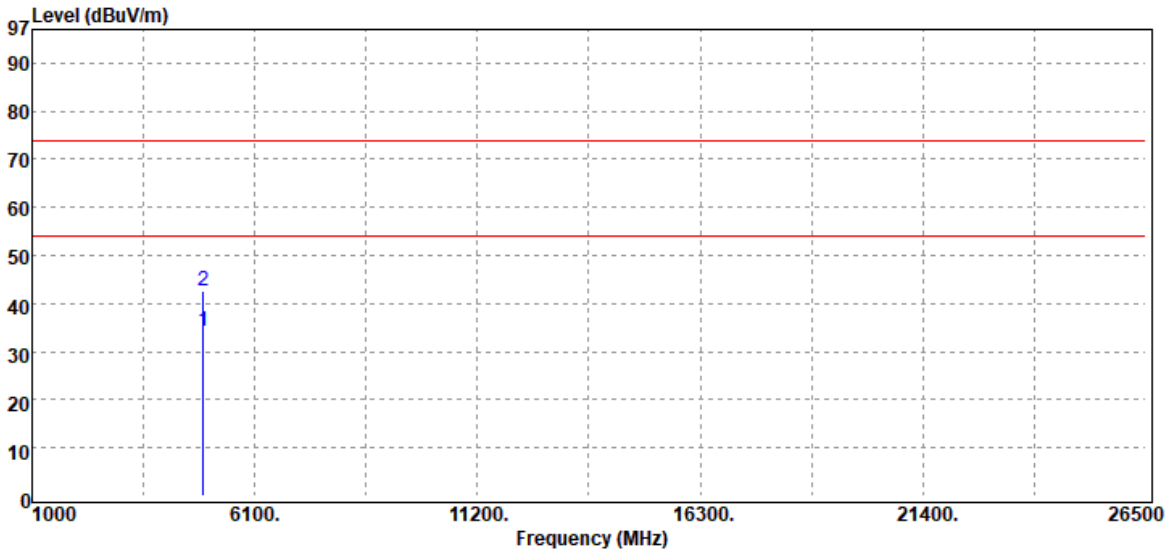
| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | Average | 26.89 | 7.09 | 33.98 | 54.00 | -20.02 |
| 4874.00 | Peak | 35.58 | 7.09 | 42.67 | 74.00 | -31.33 |

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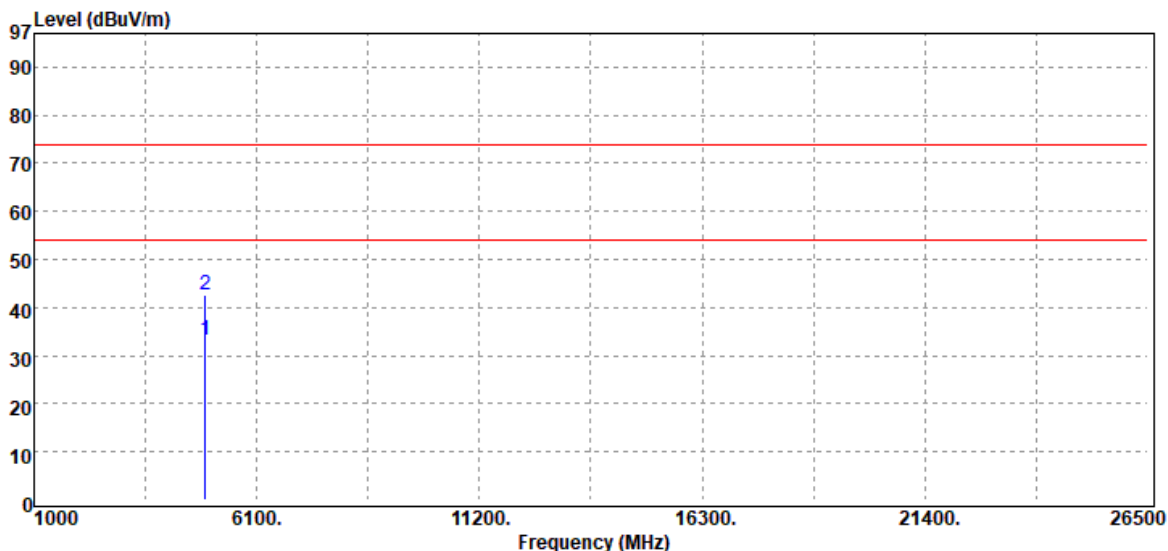
| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 4924.00 | Average | 27.13 | 7.06 | 34.19 | 54.00 | -19.81 |
| 4924.00 | Peak | 35.57 | 7.06 | 42.63 | 74.00 | -31.37 |

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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11b | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.00 | Average | 26.09 | 7.06 | 33.15 | 54.00 | -20.85 |
| 4924.00 | Peak | 35.60 | 7.06 | 42.66 | 74.00 | -31.34 |

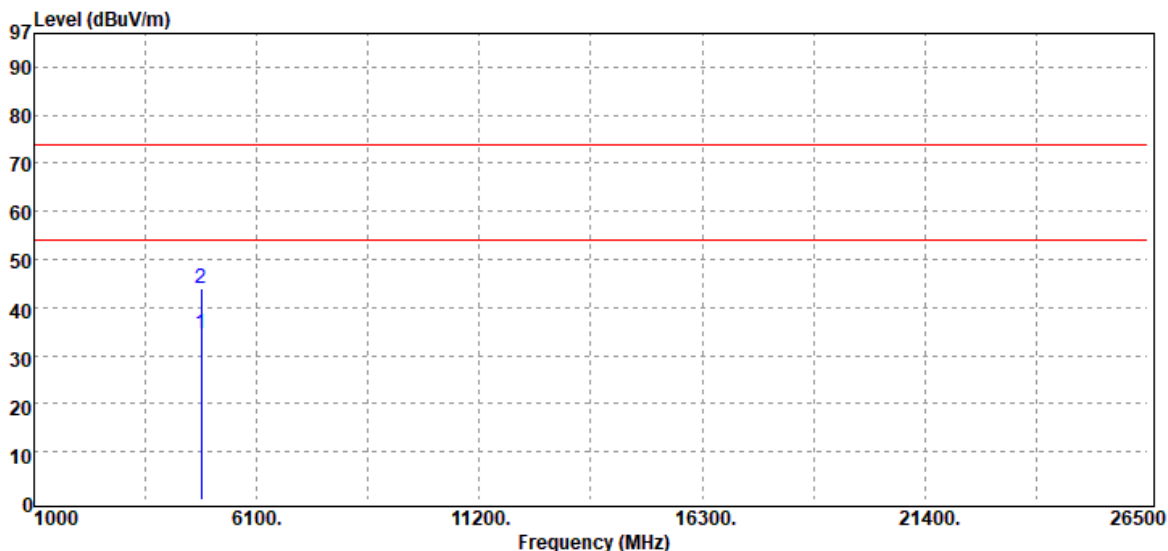
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.00 | Average | 27.14 | 7.38 | 34.52 | 54.00 | -19.48 |
| 4824.00 | Peak | 36.56 | 7.38 | 43.94 | 74.00 | -30.06 |

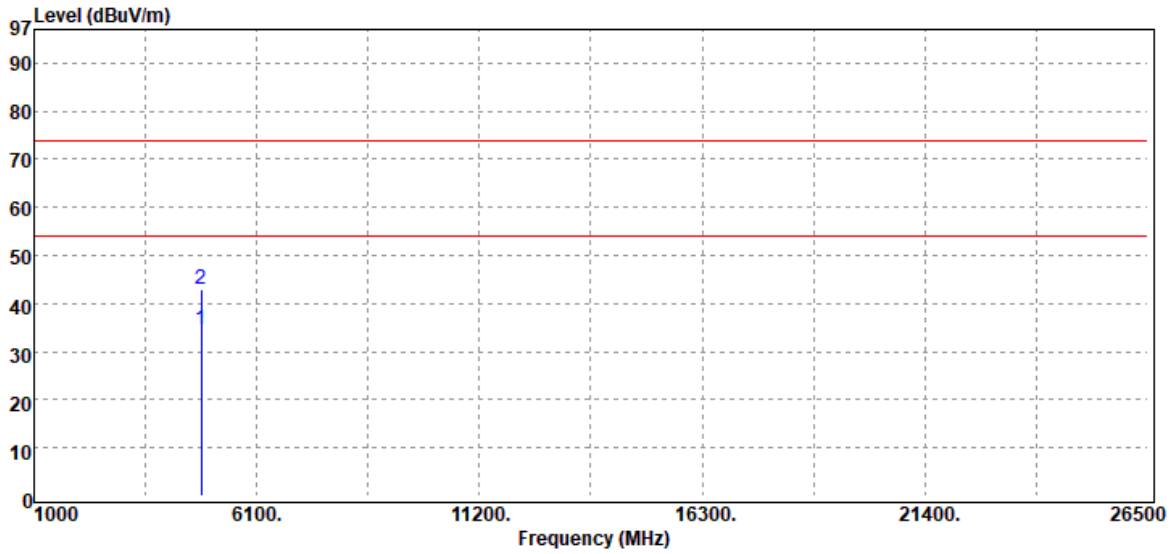
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.00 | Average | 27.26 | 7.38 | 34.64 | 54.00 | -19.36 |
| 4824.00 | Peak | 35.69 | 7.38 | 43.07 | 74.00 | -30.93 |

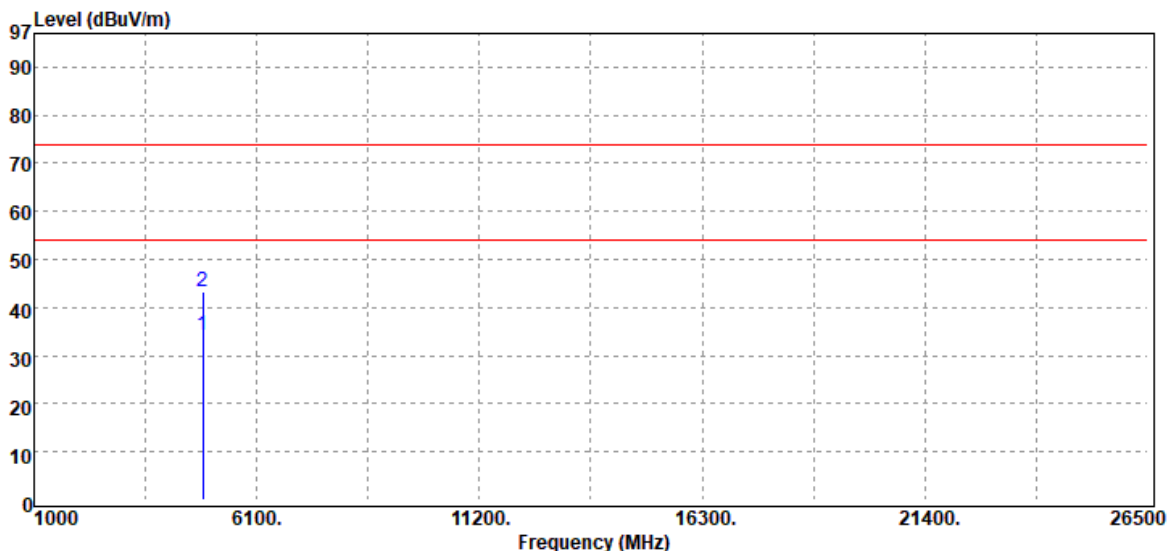
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2437 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.00 | Average | 27.26 | 7.09 | 34.35 | 54.00 | -19.65 |
| 4874.00 | Peak | 36.32 | 7.09 | 43.41 | 74.00 | -30.59 |

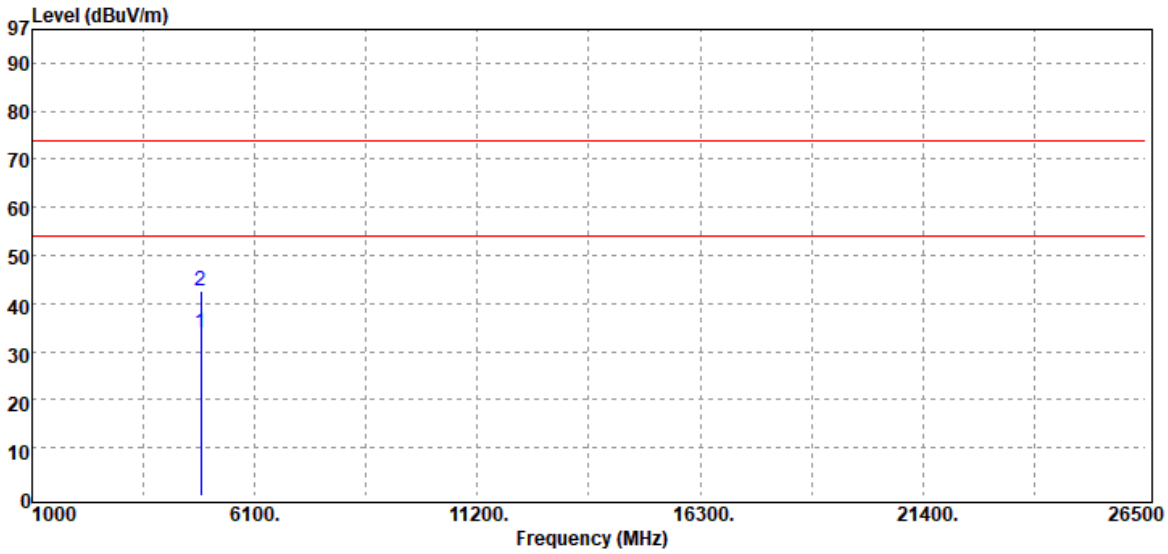
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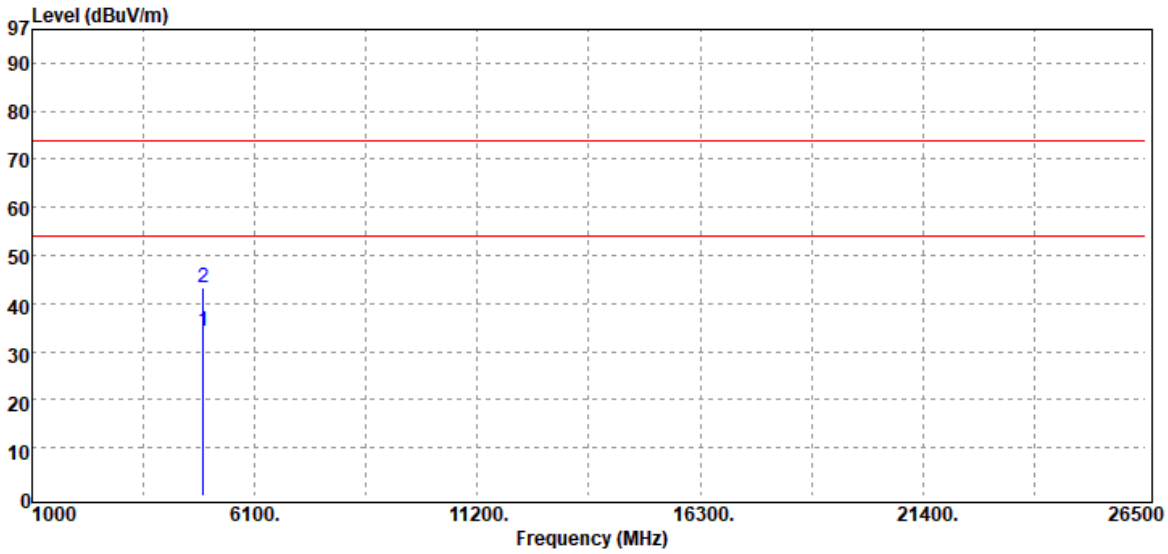
| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2437 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | Average | 26.97 | 7.09 | 34.06 | 54.00 | -19.94 |
| 4874.00 | Peak | 35.51 | 7.09 | 42.60 | 74.00 | -31.40 |

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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11g | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |

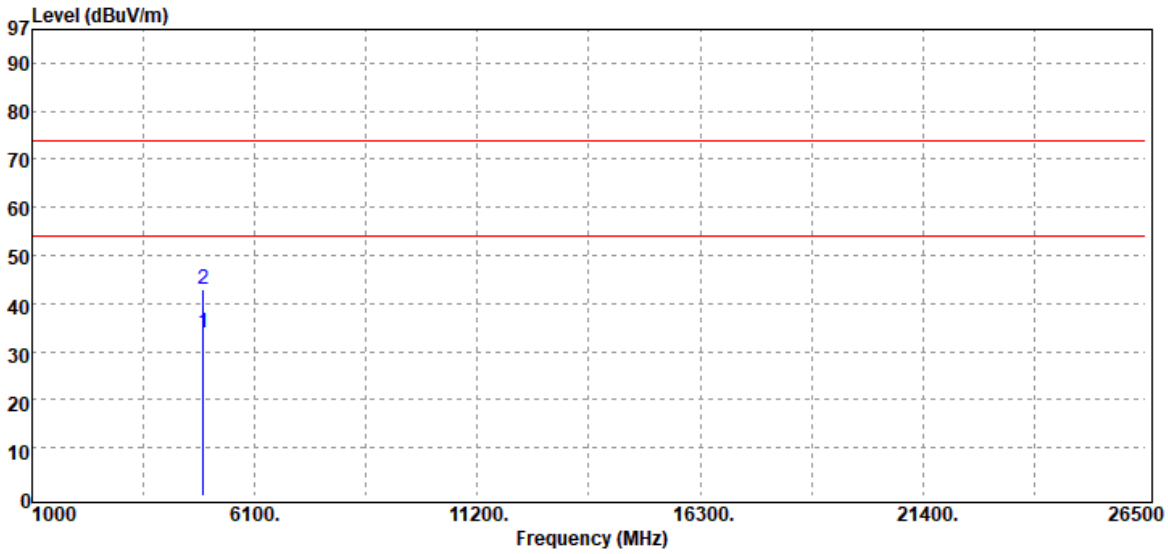


| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 27.12 | 7.06 | 34.18 | 54.00 | -19.82 |
| 4924.00 | Peak | 36.27 | 7.06 | 43.33 | 74.00 | -30.67 |

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Report Number :ER-2021-40062
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-04-22
 Temp./Humi. :24.1/63
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 26.96 | 7.06 | 34.02 | 54.00 | -19.98 |
| 4924.00 | Peak | 35.91 | 7.06 | 42.97 | 74.00 | -31.03 |

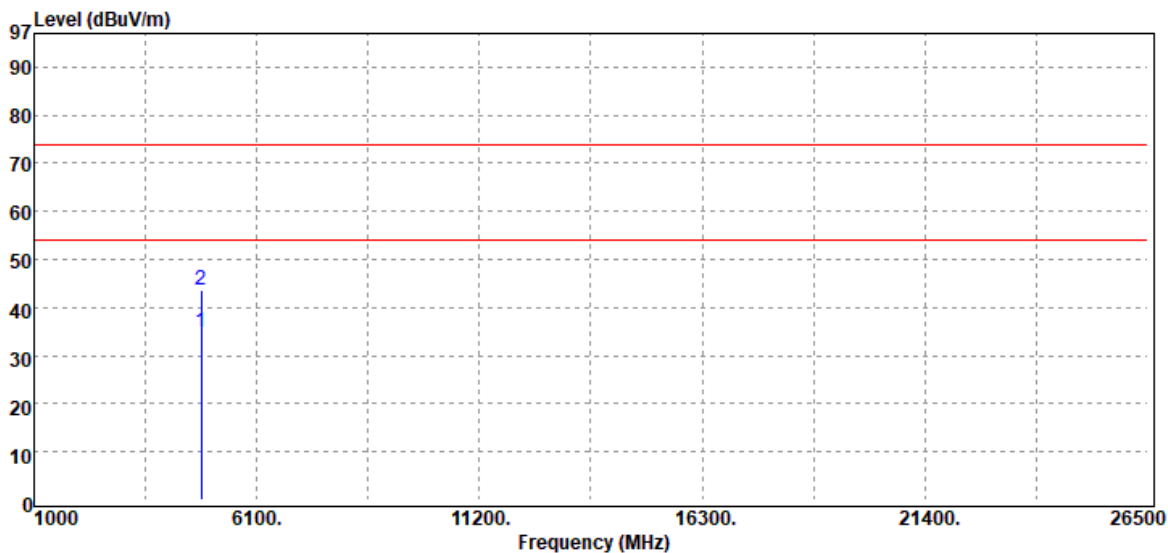
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



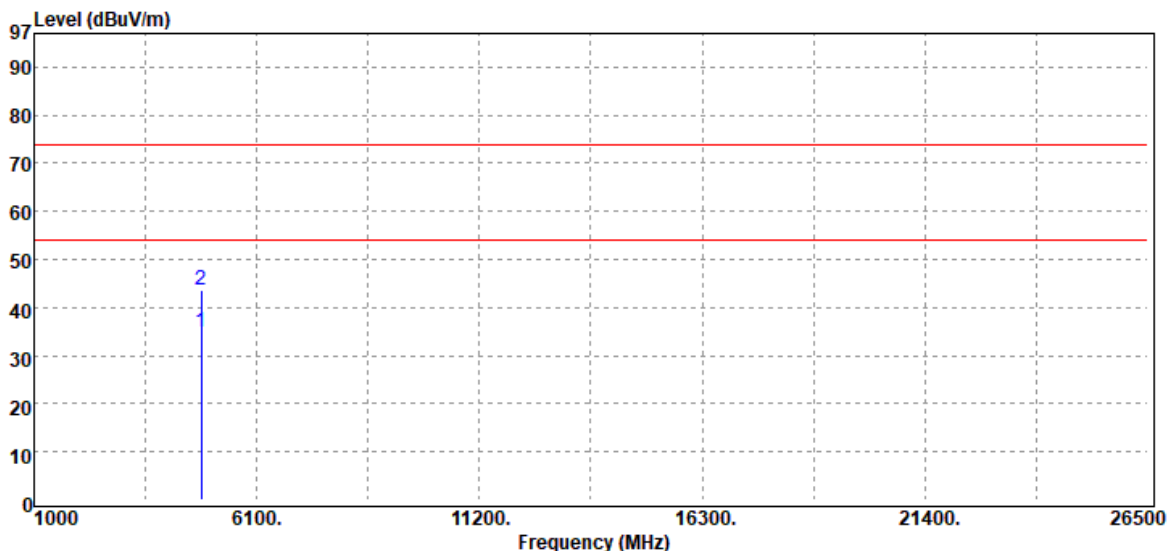
| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 27.55 | 7.38 | 34.93 | 54.00 | -19.07 |
| 4824.00 | Peak | 36.18 | 7.38 | 43.56 | 74.00 | -30.44 |

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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2412 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Low | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.00 | Average | 27.36 | 7.38 | 34.74 | 54.00 | -19.26 |
| 4824.00 | Peak | 36.31 | 7.38 | 43.69 | 74.00 | -30.31 |

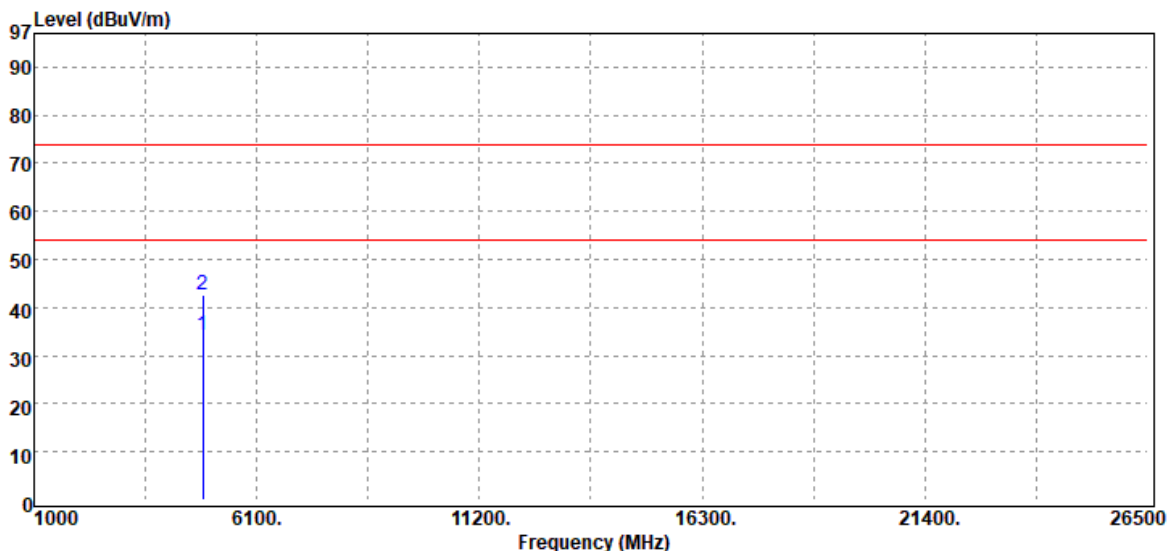
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2437 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 27.23 | 7.09 | 34.32 | 54.00 | -19.68 |
| 4874.00 | Peak | 35.65 | 7.09 | 42.74 | 74.00 | -31.26 |

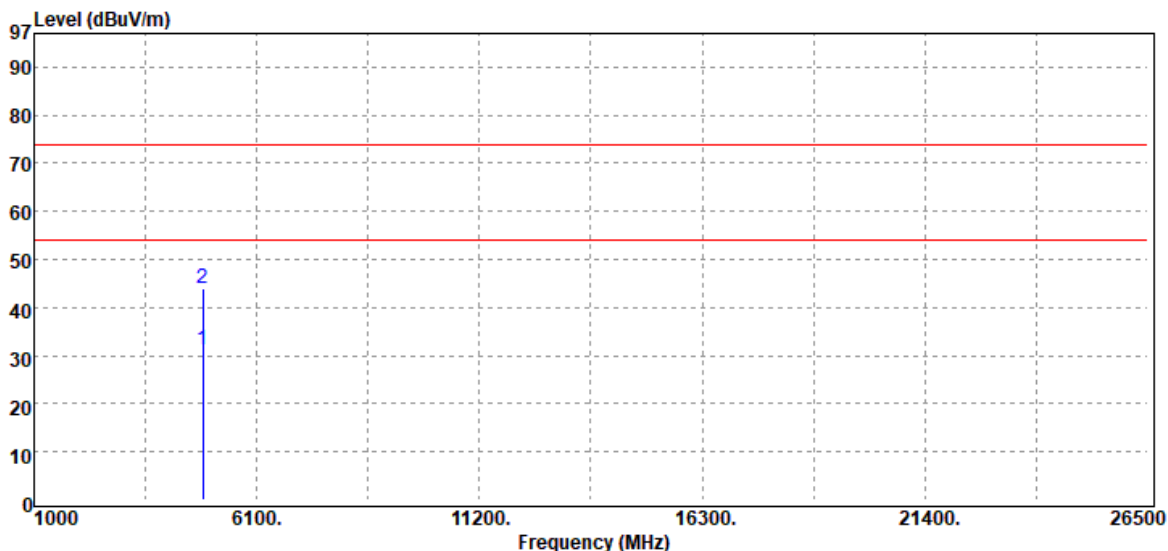
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2437 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. MHz | Detector Mode | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 4874.00 | Average | 24.09 | 7.09 | 31.18 | 54.00 | -22.82 |
| 4874.00 | Peak | 36.99 | 7.09 | 44.08 | 74.00 | -29.92 |

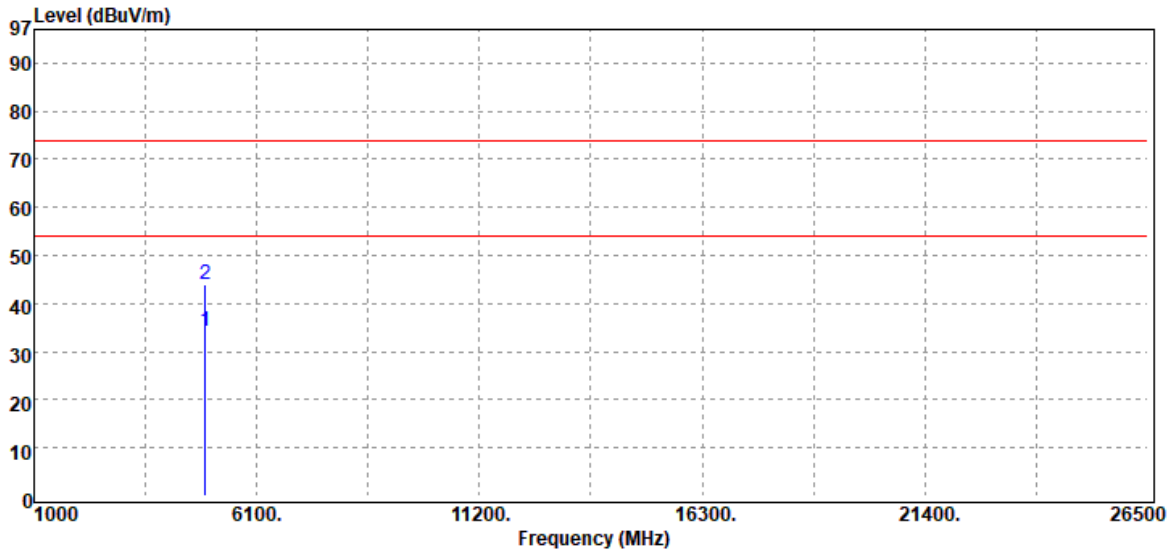
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH High | Antenna Pol. | :VERTICAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 27.19 | 7.06 | 34.25 | 54.00 | -19.75 |
| 4924.00 | Peak | 36.90 | 7.06 | 43.96 | 74.00 | -30.04 |

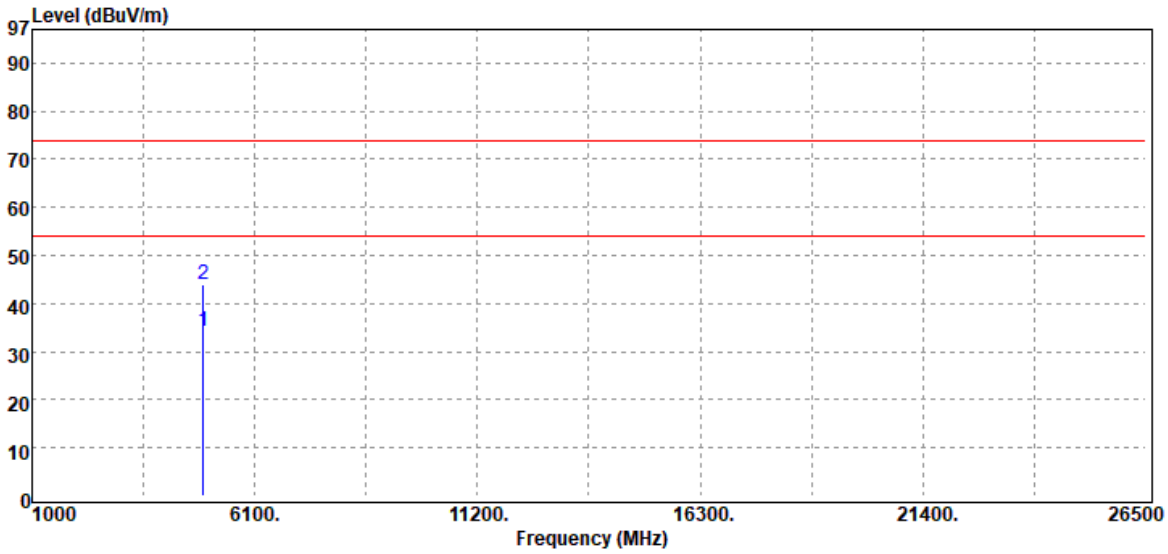
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| | | | |
|----------------|----------------|--------------|------------------|
| Report Number | :ER-2021-40062 | Test Site | :SAC III Chamber |
| Operation Mode | :802.11n20 | Test Date | :2021-04-22 |
| Test Frequency | :2462 MHz | Temp./Humi. | :24.1/63 |
| Test Mode | :Tx CH High | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :H Plane | Engineer | :Ricky Chen |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | dB | FS | @3m | dB |
| MHz | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.00 | Average | 27.18 | 7.06 | 34.24 | 54.00 | -19.76 |
| 4924.00 | Peak | 37.00 | 7.06 | 44.06 | 74.00 | -29.94 |

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

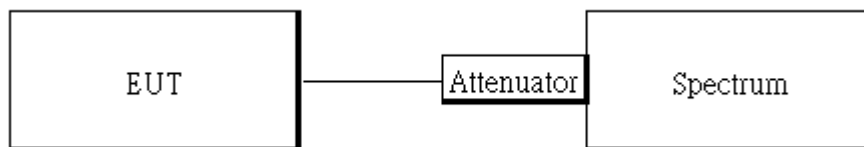
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

| Conducted Emission Test Site: Conducted 2 | | | | | |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY60240503 | 12/11/2020 | 12/10/2021 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 12/16/2020 | 12/15/2021 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 12/16/2020 | 12/15/2021 |

12.3 Test Set-up



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12.4 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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12.5 Measurement Result

12.5.1 Power spectral density

| POWER DENSITY 802.11b | | | | |
|-----------------------|---------|----------------|------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -4.35 | -4.35 | 8.00 | PASS |
| 2437 | -3.27 | -3.27 | 8.00 | PASS |
| 2462 | -6.01 | -6.01 | 8.00 | PASS |

| POWER DENSITY 802.11g | | | | |
|-----------------------|---------|----------------|------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -8.07 | -8.07 | 8.00 | PASS |
| 2437 | -6.13 | -6.13 | 8.00 | PASS |
| 2462 | -8.7 | -8.70 | 8.00 | PASS |

| POWER DENSITY 802.11n HT20 | | | | |
|----------------------------|---------|----------------|------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -8.78 | -8.78 | 8.00 | PASS |
| 2437 | -6.59 | -6.59 | 8.00 | PASS |
| 2462 | -8.81 | -8.81 | 8.00 | PASS |

**Refer to next page for plots*

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802.11b_20MHz_Chain0_2412MHz



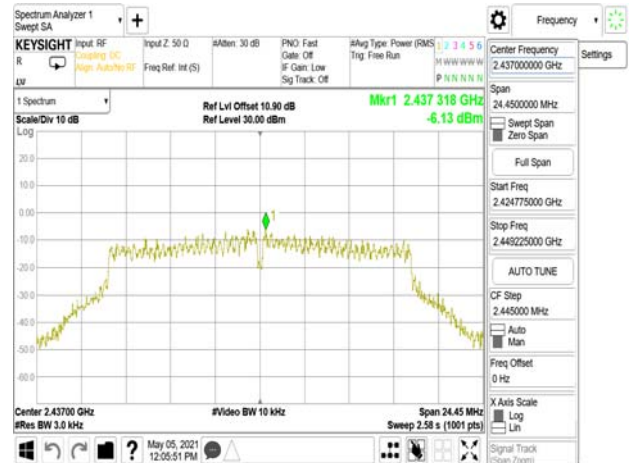
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



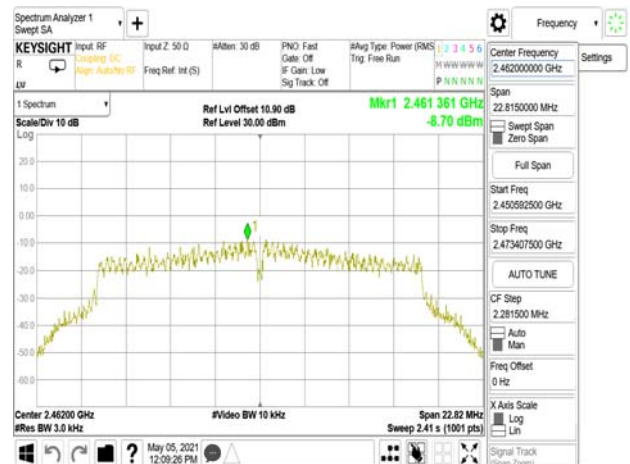
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



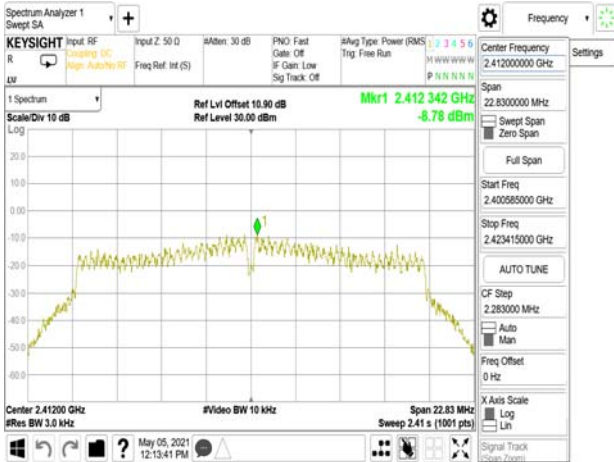
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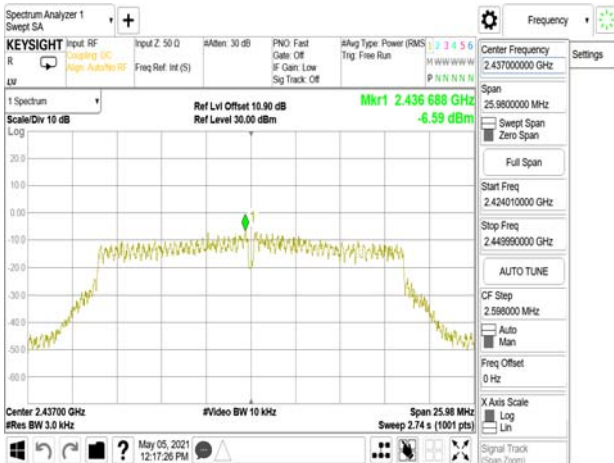
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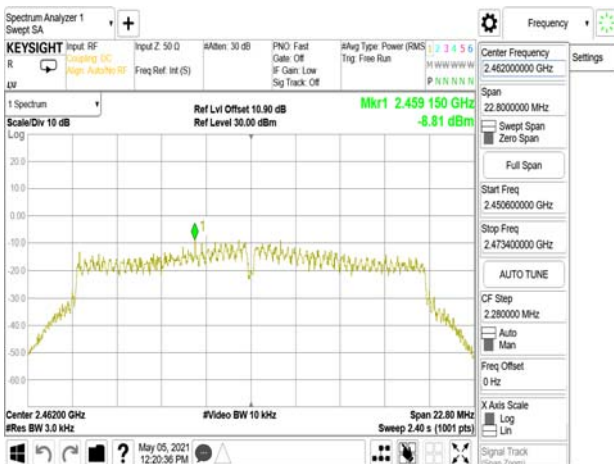
802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

The antenna is designed with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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