

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**CLASS II & IV PC REPORT**

OF

Applicant: Qualcomm Atheros, Inc.
1700 Technology Drive, San Jose, CA 95110

Product Name: 2x2 802.11A/B/G/N/AC WiFi + Bluetooth Module

Brand Name: Qualcomm Atheros

Model No.: QCNFA324

Model Difference: N/A

Report Number: ER/2020/A0068

FCC ID HLZ-QCNFA324

IC: 1754F-QCNFA324

FCC Rule Part: §15.247, Cat: DTS

IC RSS: RSS-247 issue 2 Feb 2017

Issue Date: December 21, 2020

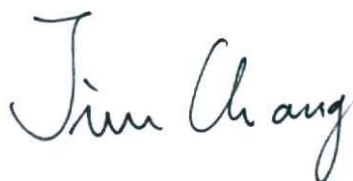
Date of Test: October 22, 2020 - November 17, 2020

Date of EUT Received: October 22, 2020

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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By:**Jim Chang / Manager**

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Revision History

| Report Number | Revision | Description | Issue Date | Remark |
|---------------|----------|-------------|-------------------|---------------------------|
| ER/2020/A0068 | Rev.00 | Original. | December 21, 2020 | Revised By: Violetta Tang |
| | | | | |

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product description

| | |
|--|---|
| Product Name: | Notebook Computer |
| Brand Name: | <i>acer</i> |
| Model No. of FCC Host: | N20Q9 |
| Model No. of IC Host: | C722, C722T |
| Model Difference: | For Marketing Purpose |
| Hardware Version: | N/A |
| Software Version: | N/A |
| EUT Series No.: | N8A6UWW001036116907600 |
| Model No. of BT/WLAN Module: | QCNFA324 |
| Class II & Class IV Permissive change: | 2x2 802.11A/B/G/N/AC WiFi + Bluetooth Module INSTALLED IN Notebook Computer |
| Power Supply: | 11.4Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter |

| Wi-Fi 802.11 | Frequency Range | Channels | Rated Power (Peak) / EIRP | Modulation Technology |
|-------------------|--|----------|---------------------------|-----------------------|
| b | 2412-2462 | 11 | 24.10 dBm / 25.16 dBm | DSSS |
| g | | | 27.43 dBm / 24.65 dBm | OFDM |
| n_HT20 / ac_VHT20 | | | 27.38 dBm / 24.39 dBm | |
| n_HT40 / ac_VHT40 | 2422-2452 | 7 | 24.89 dBm / 20.83 dBm | |
| Modulation type: | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM | | | |
| Transistion Rate | 802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps | | | |

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1.2 Antenna Designation

| Antenna Type | Supplier | Main / Aux | Antenna Part No. | Freq. | Peak Antenna Gain (dBi) | Worst Antenna Gain |
|--------------|----------|------------|------------------|--------|-------------------------|--------------------|
| PIFA | WNC | Main | N/A | 2.4GHz | 1.21 | V |
| | | Aux | | 2.4GHz | -0.2 | |

Note: Pre-scanned was done on the above 2 antennas, the MIMO mode results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
FCC KDB 558074 D01 DTS Meas. Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
RSS-247 issue 2 Feb. 2017
RSS-Gen. issue 5, Amendment 1, March 2019
ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803
FCC Designation number: TW0027
ISED CAB identifier: TW3702

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Test (RF)

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

2.3.2 Radiated Emissions

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

2.4 Measurement Results Explanation Example

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

Radiated emission below 30MHz is measured in a 9m*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 Radiated Emission

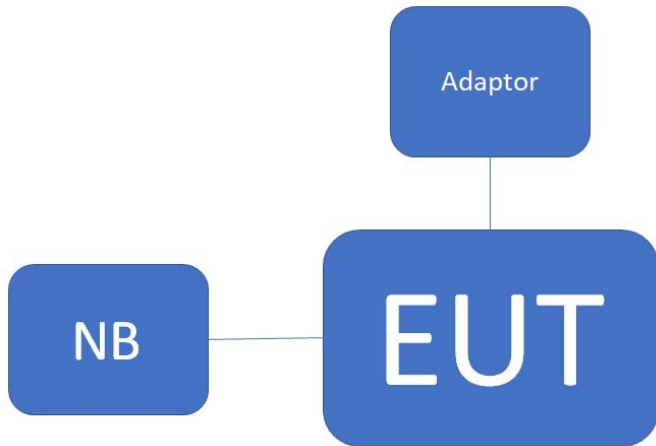


Fig. 2-2 Conducted (Antenna Port)

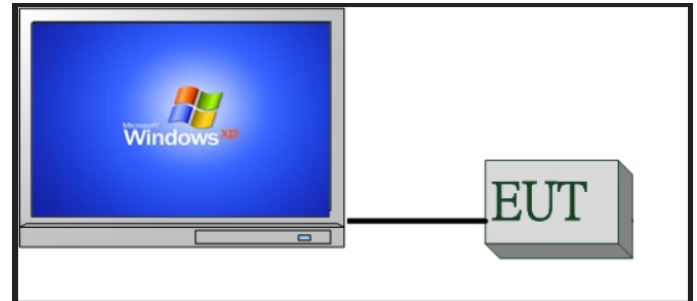


Table 2-1 Equipment Used in Tested System

| 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 | L430 | PK-126TN | N/A | N/A |
| 3 | USB-RJ45 Cable | abio | CA-USB-RJ45B | N/A | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | IC Rules | Description Of Test | Result |
|-----------------------|--|--|-----------|
| §15.247(b) (3) | RSS-247 §5.4 d | Peak Output Power | Compliant |
| §15.247(d) §15.209 | RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13 | Radiated Band Edge & Radiated Spurious Emission | 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 |

9 channels are provided for 802.11n 40M

| CHANNEL | FREQUENCY (MHz) |
|---------|-----------------|
| 3 | 2422 |
| 4 | 2427 |
| 5 | 2432 |
| 6 | 2437 |
| 7 | 2442 |
| 8 | 2447 |
| 9 | 2452 |

4.2 The Worst Test Modes and Channel Details

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

The given UE is pre-scanned among below modes.

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

- 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 | 2TX |
| 802.11n 40M | 3 to 9 | 6 | OFDM | MCS8 | MIMO |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
| 802.11b | 1 to 11 | 1,6,11 | DSSS | 1 | 2TX |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 | 2TX |
| 802.11n 20M | 1 to 11 | 1,6,11 | OFDM | MCS8 | MIMO |
| 802.11n 40M | 3 to 9 | 3,6,9 | OFDM | MCS8 | MIMO |
| Note: The field strength of radiation emission was measured as NB Plane for channel Low, Mid and High. | | | | | |

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 | 2TX |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 | 2TX |
| 802.11n 20M | 1 to 11 | 1,6,11 | OFDM | MCS8 | MIMO |
| 802.11n 40M | 3 to 9 | 3,6,9 | OFDM | MCS8 | MIMO |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|----------------------|-----------------------------|
| Peak Output Power | +/- 0.84 dB |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% |

| Radiated Spurious Emission Measurement Uncertainty | |
|--|----------------------------|
| Polarization: Vertical | 9kHz~30MHz: +2.3dB |
| | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |
| Polarization: Horizontal | 9kHz~30MHz: +2.3dB |
| | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

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 PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

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

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form 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.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

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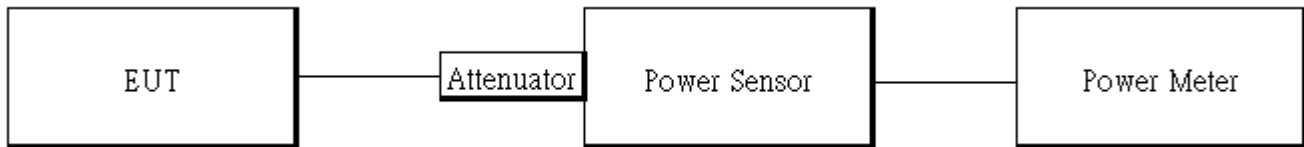
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6.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2496A | 1804001 | 02/20/2020 | 02/19/2021 |
| Power Sensor | Anritsu | MA2411B | 1726104 | 02/20/2020 | 02/19/2021 |
| Power Sensor | Anritsu | MA2411B | 1726107 | 02/20/2020 | 02/19/2021 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/02/2020 | 01/01/2021 |

6.3 Test Set-up



6.4 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.

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6.5 Measurement Result:

6.5.1 Peak & Avg

| 802.11b_2TX | | | | | | | |
|-------------|-------------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | |
| 1 | 2412 | 1 | 19.65 | 20.30 | 23.00 | 30.00 | PASS |
| 6 | 2437 | 1 | 20.42 | 21.44 | 23.97 | 30.00 | PASS |
| 11 | 2462 | 1 | 20.47 | 21.64 | 24.10 | 30.00 | PASS |
| 802.11b_2TX | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | |
| 1 | 2412 | 1 | 17.40 | 17.95 | 20.75 | 30.00 | PASS |
| 6 | 2437 | 1 | 18.05 | 18.80 | 21.50 | 30.00 | PASS |
| 11 | 2462 | 1 | 17.86 | 19.11 | 21.59 | 30.00 | PASS |
| 802.11g_2TX | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | |
| 1 | 2412 | 6 | 20.20 | 20.68 | 23.46 | 30.00 | PASS |
| 6 | 2437 | 6 | 24.03 | 24.78 | 27.43 | 30.00 | PASS |
| 11 | 2462 | 6 | 19.01 | 20.25 | 22.68 | 30.00 | PASS |
| 802.11g_2TX | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | |
| 1 | 2412 | 6 | 12.64 | 13.63 | 16.41 | 30.00 | PASS |
| 6 | 2437 | 6 | 17.41 | 18.21 | 21.08 | 30.00 | PASS |
| 11 | 2462 | 6 | 12.48 | 13.45 | 16.24 | 30.00 | PASS |

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| 802.11n_HT20M MIMO | | | | | | | |
|--------------------|-------------|-----------|-------------------------|-------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | |
| 1 | 2412 | MCS8 | 19.08 | 19.77 | 22.45 | 30.00 | PASS |
| 6 | 2437 | MCS8 | 24.17 | 24.57 | 27.38 | 30.00 | PASS |
| 11 | 2462 | MCS8 | 19.26 | 20.14 | 22.73 | 30.00 | PASS |
| 802.11n_HT20M MIMO | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | |
| 1 | 2412 | MCS8 | 12.29 | 12.40 | 15.65 | 30.00 | PASS |
| 6 | 2437 | MCS8 | 17.36 | 17.65 | 20.82 | 30.00 | PASS |
| 11 | 2462 | MCS8 | 11.26 | 12.77 | 15.39 | 30.00 | PASS |
| 802.11n_HT40M MIMO | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | | Total Peak Output Power (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | |
| 3 | 2422 | MCS8 | 17.20 | 18.02 | 20.64 | 30.00 | PASS |
| 6 | 2437 | MCS8 | 21.52 | 22.22 | 24.89 | 30.00 | PASS |
| 9 | 2452 | MCS8 | 15.27 | 16.34 | 18.85 | 30.00 | PASS |
| 802.11n_HT40M MIMO | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | |
| 3 | 2422 | MCS8 | 9.68 | 10.21 | 13.47 | 30.00 | PASS |
| 6 | 2437 | MCS8 | 13.33 | 14.12 | 17.26 | 30.00 | PASS |
| 9 | 2452 | MCS8 | 7.40 | 8.22 | 11.35 | 30.00 | PASS |

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

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6.5.2 EIRP

| 802.11b_2TX | | | | | | | | | |
|-------------|-------------|-----------|-------------------------|-------|-------------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 1 | 2412 | 1 | 17.40 | 17.95 | 20.75 | 3.57 | 24.32 | 36 | PASS |
| 6 | 2437 | 1 | 18.05 | 18.80 | 21.50 | 3.57 | 25.07 | 36 | PASS |
| 11 | 2462 | 1 | 17.86 | 19.11 | 21.59 | 3.57 | 25.16 | 36 | PASS |

| 802.11g_2TX | | | | | | | | | |
|-------------|-------------|-----------|-------------------------|-------|-------------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 1 | 2412 | 6 | 12.64 | 13.63 | 16.41 | 3.57 | 19.98 | 36 | PASS |
| 6 | 2437 | 6 | 17.41 | 18.21 | 21.08 | 3.57 | 24.65 | 36 | PASS |
| 11 | 2462 | 6 | 12.48 | 13.45 | 16.24 | 3.57 | 19.81 | 36 | PASS |

| 802.11n_HT20M MIMO | | | | | | | | | |
|--------------------|-------------|-----------|-------------------------|-------|-------------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 1 | 2412 | MCS8 | 19.08 | 19.77 | 15.65 | 3.57 | 19.22 | 36 | PASS |
| 6 | 2437 | MCS8 | 24.17 | 24.57 | 20.82 | 3.57 | 24.39 | 36 | PASS |
| 11 | 2462 | MCS8 | 19.26 | 20.14 | 15.39 | 3.57 | 18.96 | 36 | PASS |

| 802.11n_HT40M MIMO | | | | | | | | | |
|--------------------|-------------|-----------|-------------------------|-------|-------------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | | Total Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| | | | CH 0 | CH 1 | | | | | |
| 3 | 2422 | MCS8 | 9.68 | 10.21 | 13.47 | 3.57 | 17.04 | 36 | PASS |
| 6 | 2437 | MCS8 | 13.33 | 14.12 | 17.26 | 3.57 | 20.83 | 36 | PASS |
| 9 | 2452 | MCS8 | 7.40 | 8.22 | 11.35 | 3.57 | 14.92 | 36 | PASS |

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below. And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

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

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7.2 Measurement Equipment Used:

| 966 Chamber | | | | | |
|------------------------|-----------------|--------------------|------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/25/2019 | 12/24/2020 |
| Horn Antenna | Schwarzbeck | BBHA9120D | D803 | 12/20/2019 | 12/19/2020 |
| Bi-log Antenna | TESEO | CBL 6112D | 35242 & AT-N0555 | 01/13/2020 | 01/12/2021 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 10/19/2020 | 10/18/2021 |
| PXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 04/21/2020 | 04/20/2021 |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 07/13/2020 | 07/12/2021 |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 01/02/2020 | 01/01/2021 |
| Pre-Amplifier | EMC Instruments | EMC051825 | 980152 | 01/02/2020 | 01/01/2021 |
| Pre-Amplifier | HP | 8447D | 2944A09469 | 01/02/2020 | 01/01/2021 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 4 | 01/02/2020 | 01/01/2021 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M1 | 01/02/2020 | 01/01/2021 |
| High Pass Filter | WI | WHKX4.0/18G-10SS | 22 | 01/02/2020 | 01/01/2021 |
| Coaxial Cable | Huber Suhner | succoflex 102 | MY2622/2 | 01/02/2020 | 01/01/2021 |
| Coaxial Cable | Huber Suhner | succoflex 104A | 800086/4a | 01/02/2020 | 01/01/2021 |
| Coaxial Cable | Huber Suhner | EMC 104-SM-SM-2000 | 160123 | 01/02/2020 | 01/01/2021 |

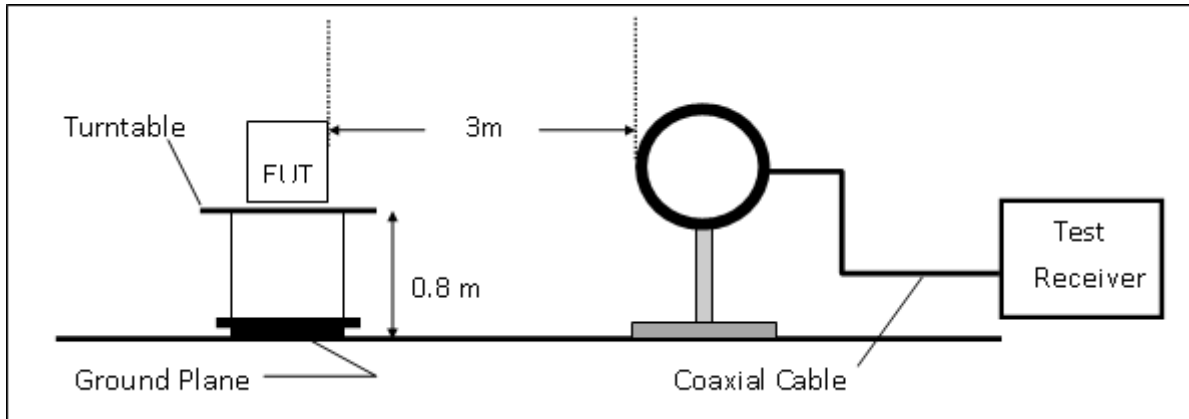
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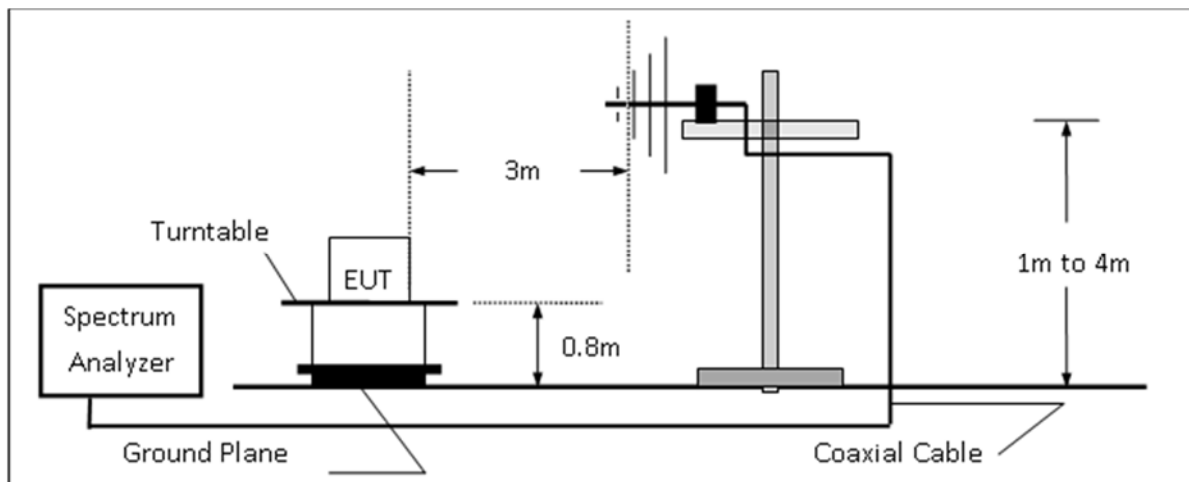
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7.3 Test SET-UP

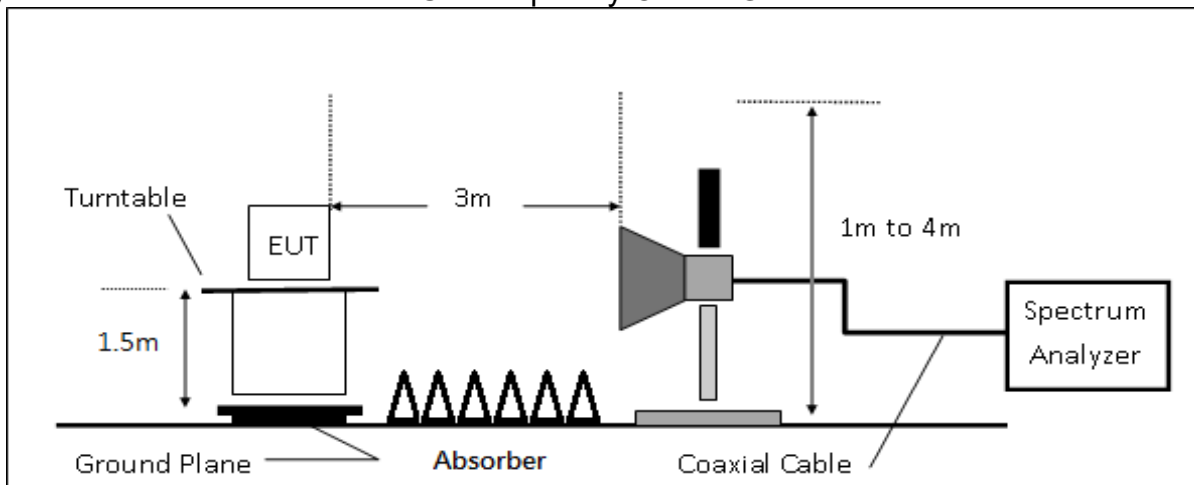
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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7.4 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.

7.5 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)

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7.6 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.

7.7 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*

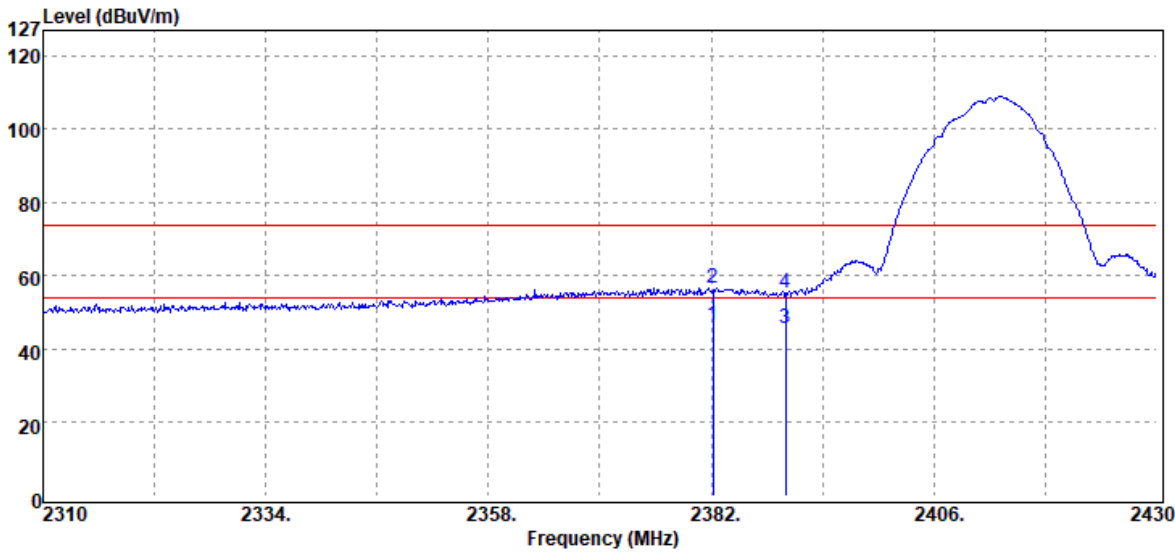
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7.7.1 Radiated Band Edge Measurement Result:

| | | | |
|----------------|------------------|--------------|----------------|
| Report Number | :ER/2020/A0068 | Test Site | :SAC I Chamber |
| Operation Mode | :802.11b | Test Date | :2020-10-29 |
| Test Frequency | :2412 MHz | Temp./Humi. | :23.2/62 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :NB Plane | Engineer | :Neo |



| 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 |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2382.20 | Average | 39.21 | 7.49 | 46.70 | 54.00 | -7.30 |
| 2382.20 | Peak | 49.24 | 7.49 | 56.73 | 74.00 | -17.27 |
| 2390.00 | Average | 38.15 | 7.46 | 45.61 | 54.00 | -8.39 |
| 2390.00 | Peak | 48.00 | 7.46 | 55.46 | 74.00 | -18.54 |

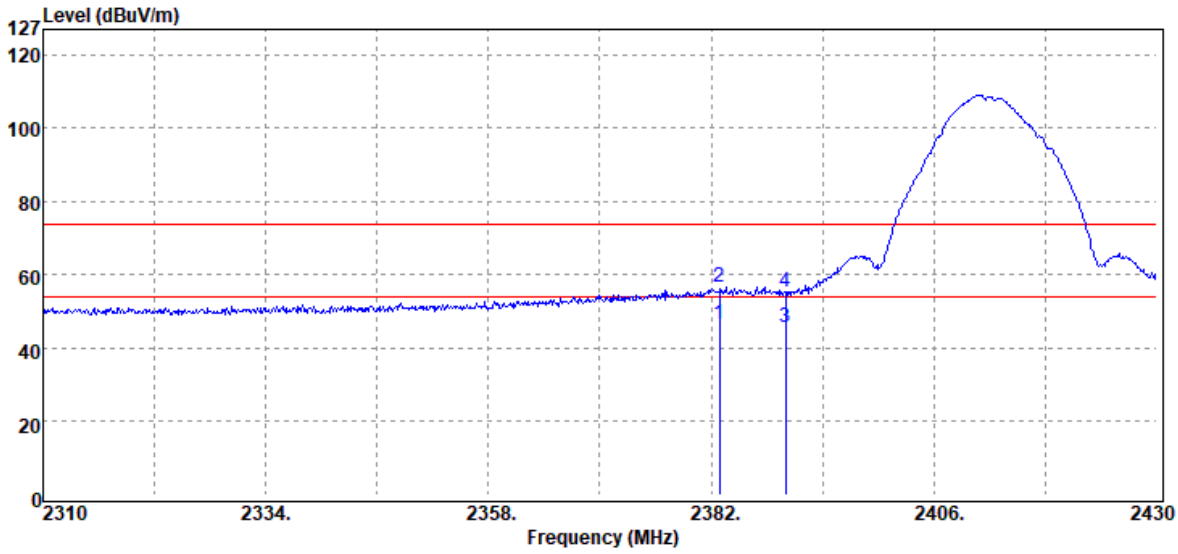
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Report Number :ER/2020/A0068
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-29
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2382.90 | Average | 39.13 | 7.48 | 46.61 | 54.00 | -7.39 |
| 2382.90 | Peak | 49.37 | 7.48 | 56.85 | 74.00 | -17.15 |
| 2390.00 | Average | 38.32 | 7.46 | 45.78 | 54.00 | -8.22 |
| 2390.00 | Peak | 47.99 | 7.46 | 55.45 | 74.00 | -18.55 |

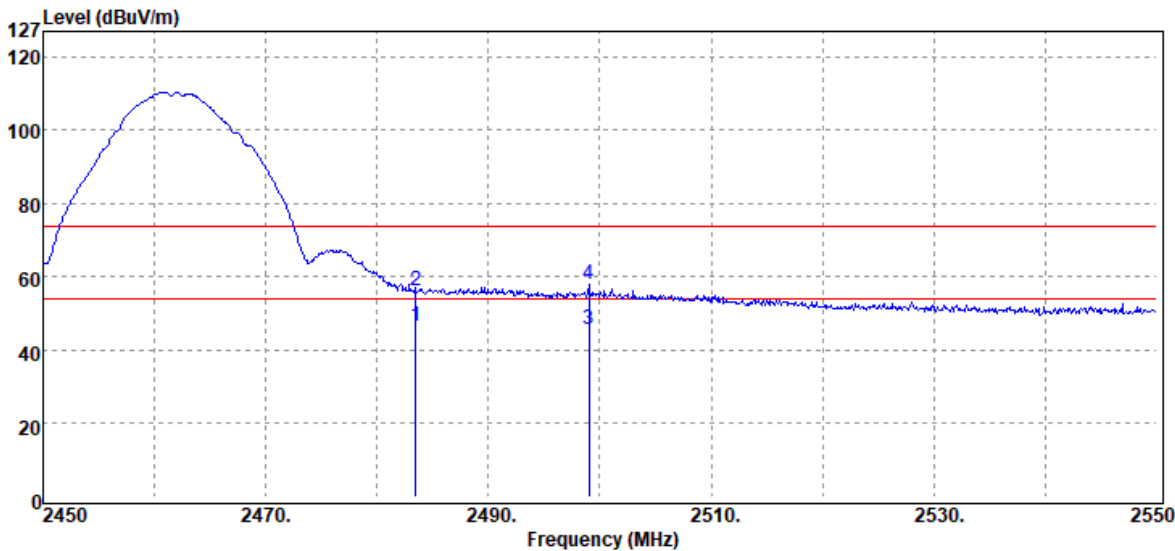
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Report Number :ER/2020/A0068
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-29
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 | 39.17 | 7.46 | 46.63 | 54.00 | -7.37 |
| 2483.50 | Peak | 48.78 | 7.46 | 56.24 | 74.00 | -17.76 |
| 2499.00 | Average | 38.17 | 7.47 | 45.64 | 54.00 | -8.36 |
| 2499.00 | Peak | 50.36 | 7.47 | 57.83 | 74.00 | -16.17 |

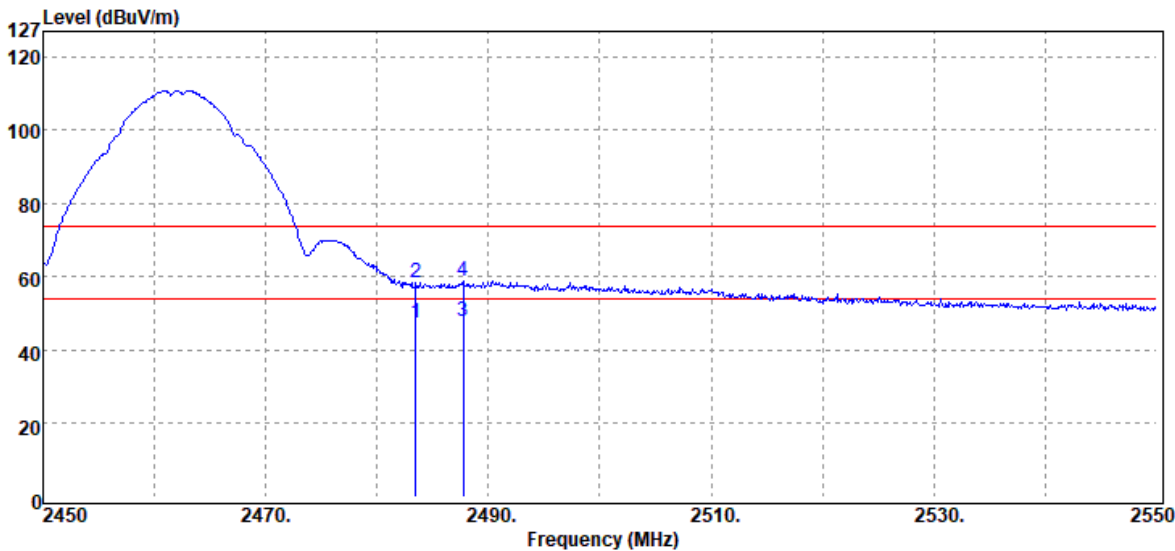
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Report Number :ER/2020/A0068
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-29
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 | 40.06 | 7.46 | 47.52 | 54.00 | -6.48 |
| 2483.50 | Peak | 51.07 | 7.46 | 58.53 | 74.00 | -15.47 |
| 2487.70 | Average | 40.29 | 7.46 | 47.75 | 54.00 | -6.25 |
| 2487.70 | Peak | 51.42 | 7.46 | 58.88 | 74.00 | -15.12 |

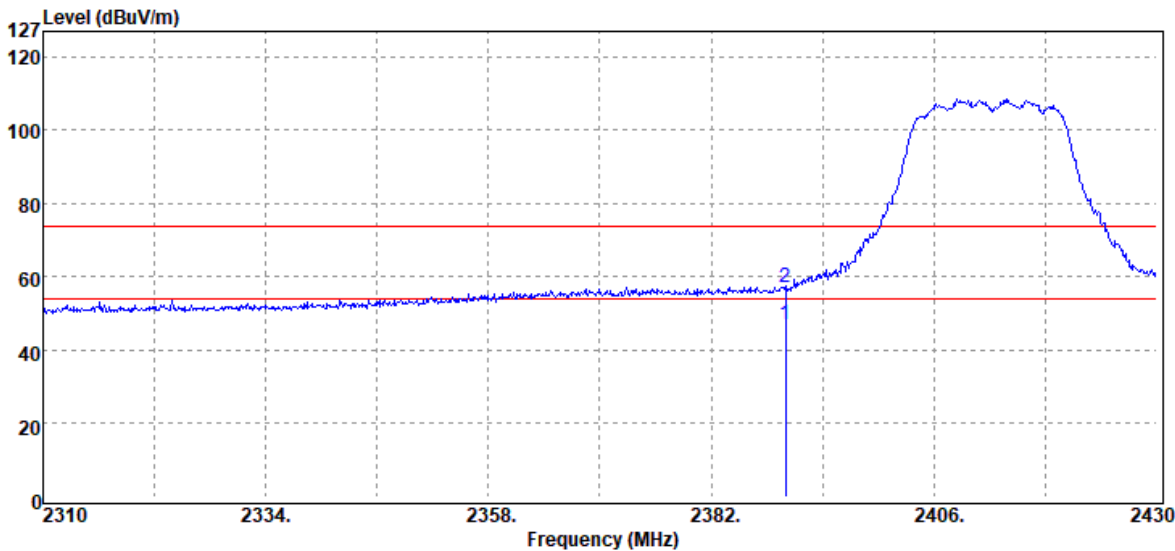
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Report Number :ER/2020/A0086
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-29
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 39.39 | 7.46 | 46.85 | 54.00 | -7.15 |
| 2390.00 | Peak | 49.85 | 7.46 | 57.31 | 74.00 | -16.69 |

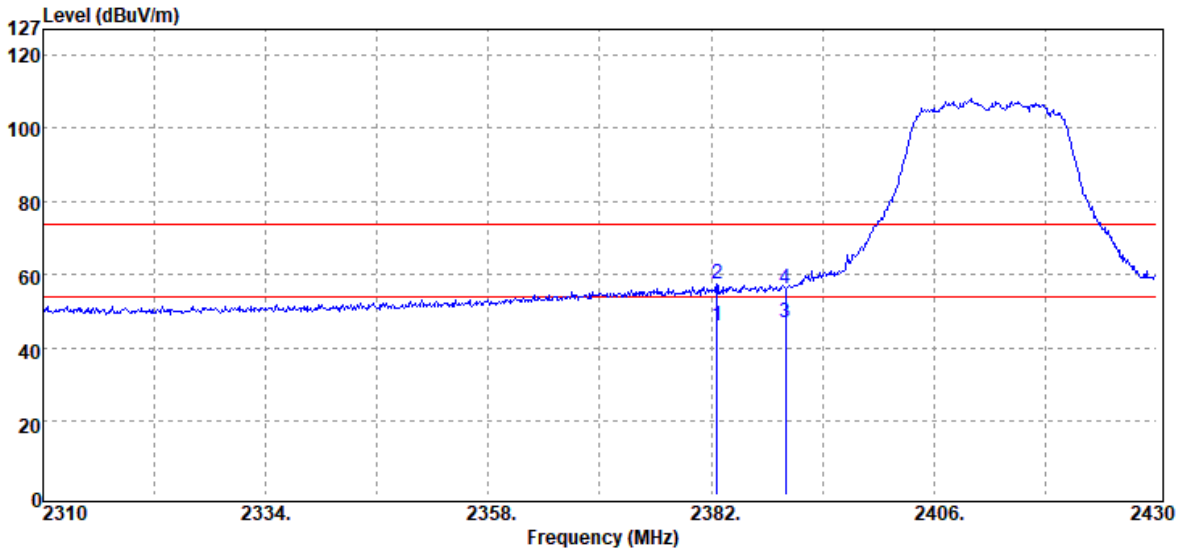
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Report Number :ER/2020/A0086
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-29
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2382.60 | Average | 38.76 | 7.48 | 46.24 | 54.00 | -7.76 |
| 2382.60 | Peak | 49.94 | 7.48 | 57.42 | 74.00 | -16.58 |
| 2390.00 | Average | 39.56 | 7.46 | 47.02 | 54.00 | -6.98 |
| 2390.00 | Peak | 48.86 | 7.46 | 56.32 | 74.00 | -17.68 |

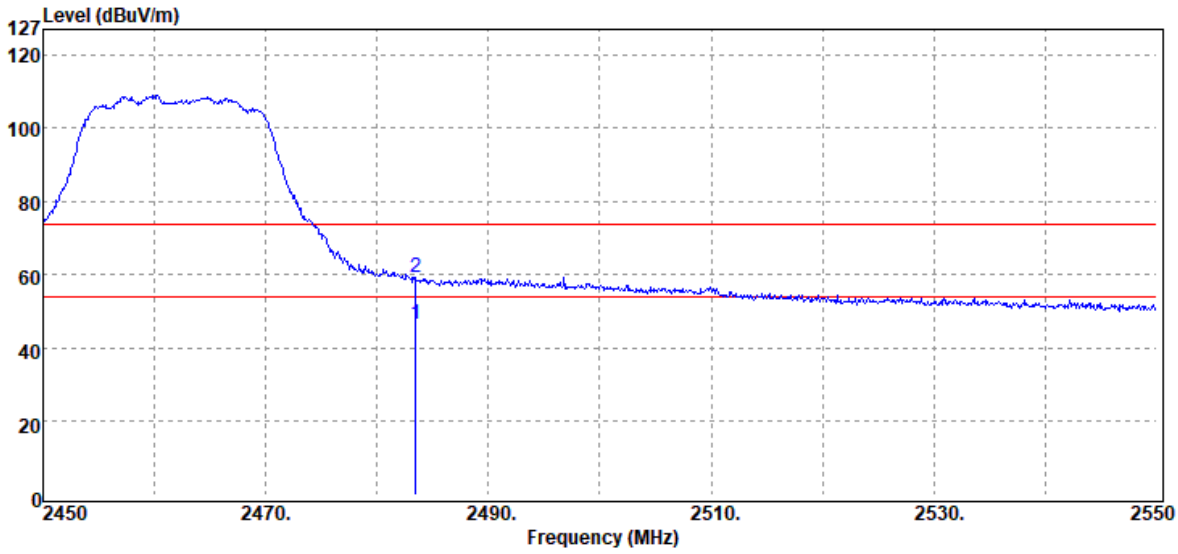
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Report Number :ER/2020/A0086
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-29
 Temp./Humi. :23.2/62
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 | 39.05 | 7.46 | 46.51 | 54.00 | -7.49 |
| 2483.50 | Peak | 51.89 | 7.46 | 59.35 | 74.00 | -14.65 |

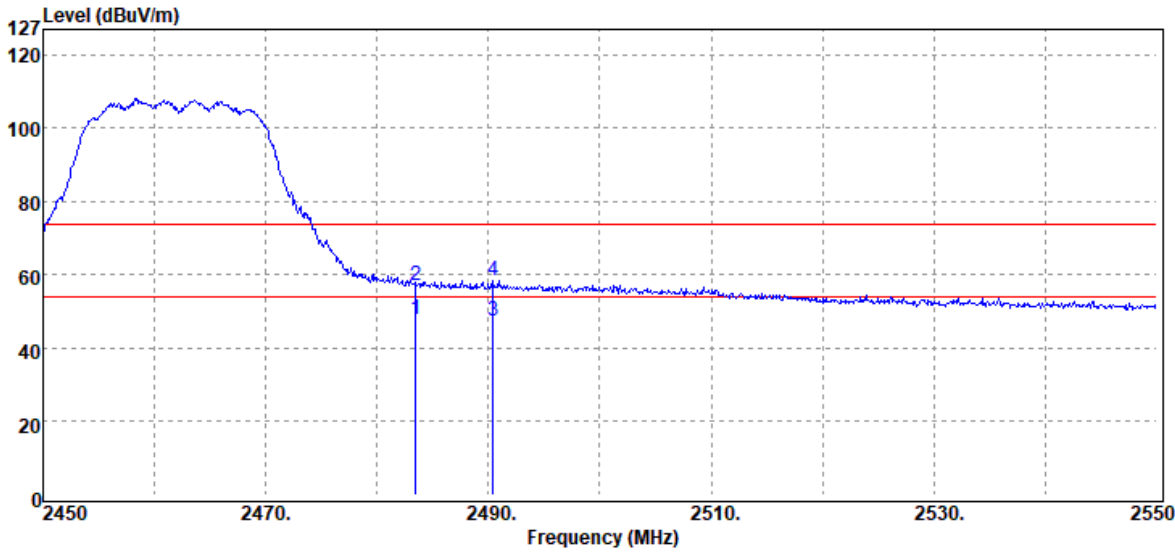
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Report Number :ER/2020/A0086
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-29
 Temp./Humi. :23.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 | 40.45 | 7.46 | 47.91 | 54.00 | -6.09 |
| 2483.50 | Peak | 49.72 | 7.46 | 57.18 | 74.00 | -16.82 |
| 2490.40 | Average | 39.85 | 7.47 | 47.32 | 54.00 | -6.68 |
| 2490.40 | Peak | 51.19 | 7.47 | 58.66 | 74.00 | -15.34 |

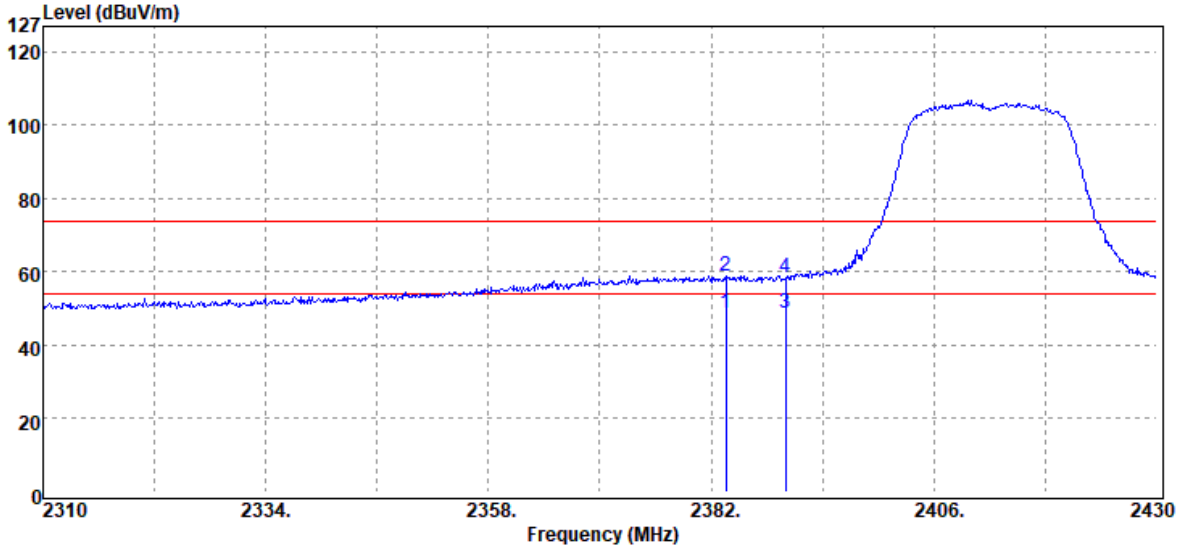
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Report Number :ER/2020/A0086
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-30
 Temp./Humi. :23.2/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2383.56 | Average | 41.38 | 7.48 | 48.86 | 54.00 | -5.14 |
| 2383.56 | Peak | 51.35 | 7.48 | 58.83 | 74.00 | -15.17 |
| 2390.00 | Average | 41.49 | 7.46 | 48.95 | 54.00 | -5.05 |
| 2390.00 | Peak | 51.20 | 7.46 | 58.66 | 74.00 | -15.34 |

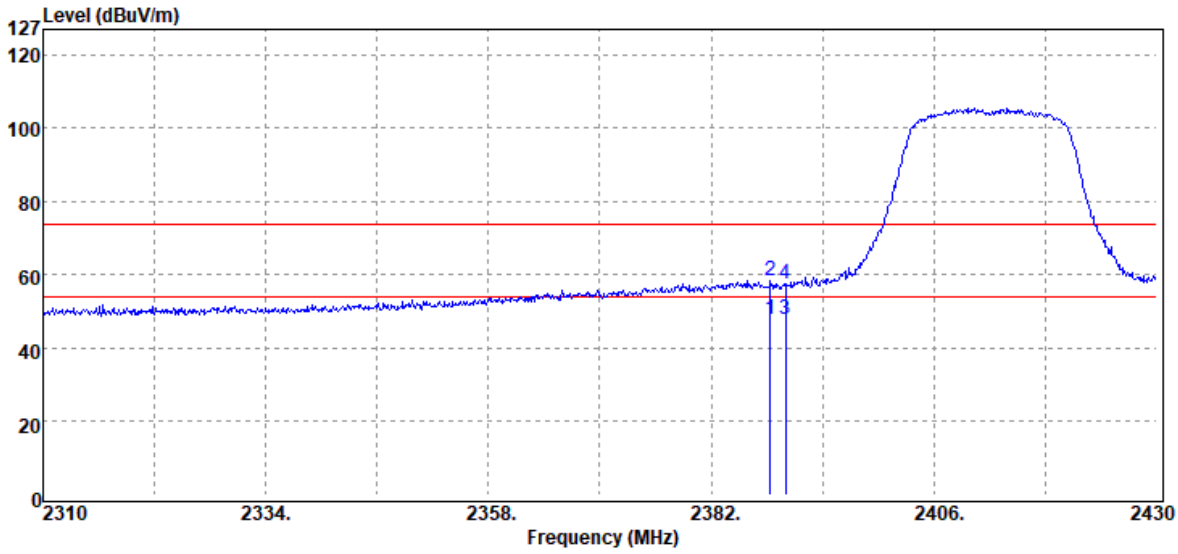
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Report Number :ER/2020/A0086
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-30
 Temp./Humi. :23.2/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2388.36 | Average | 40.37 | 7.46 | 47.83 | 54.00 | -6.17 |
| 2388.36 | Peak | 50.91 | 7.46 | 58.37 | 74.00 | -15.63 |
| 2390.00 | Average | 40.58 | 7.46 | 48.04 | 54.00 | -5.96 |
| 2390.00 | Peak | 50.21 | 7.46 | 57.67 | 74.00 | -16.33 |

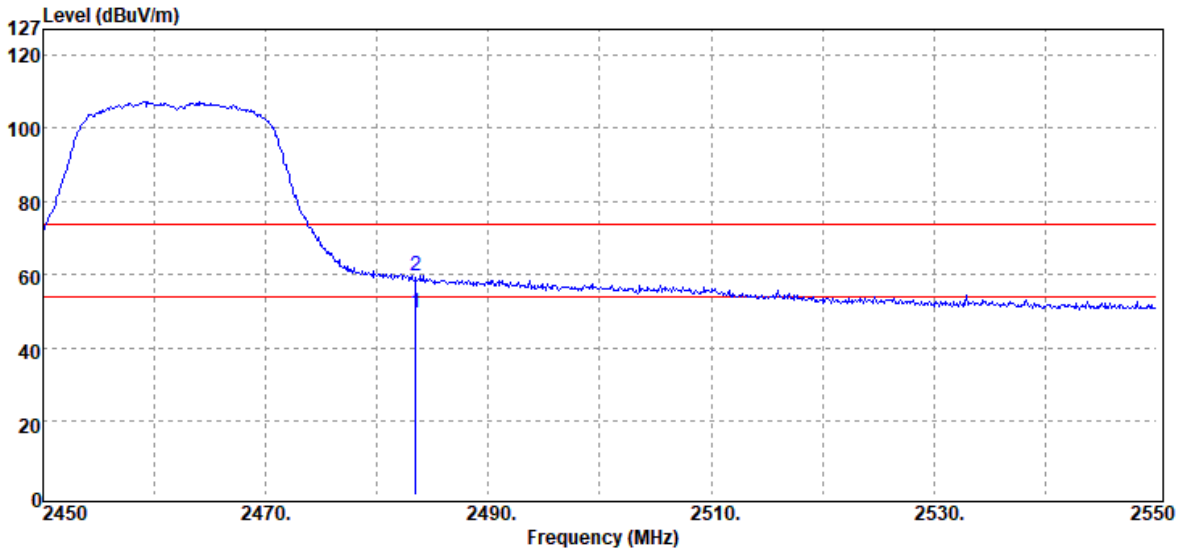
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 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-30
 Temp./Humi. :23.2/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 | 42.09 | 7.46 | 49.55 | 54.00 | -4.45 |
| 2483.50 | Peak | 52.25 | 7.46 | 59.71 | 74.00 | -14.29 |

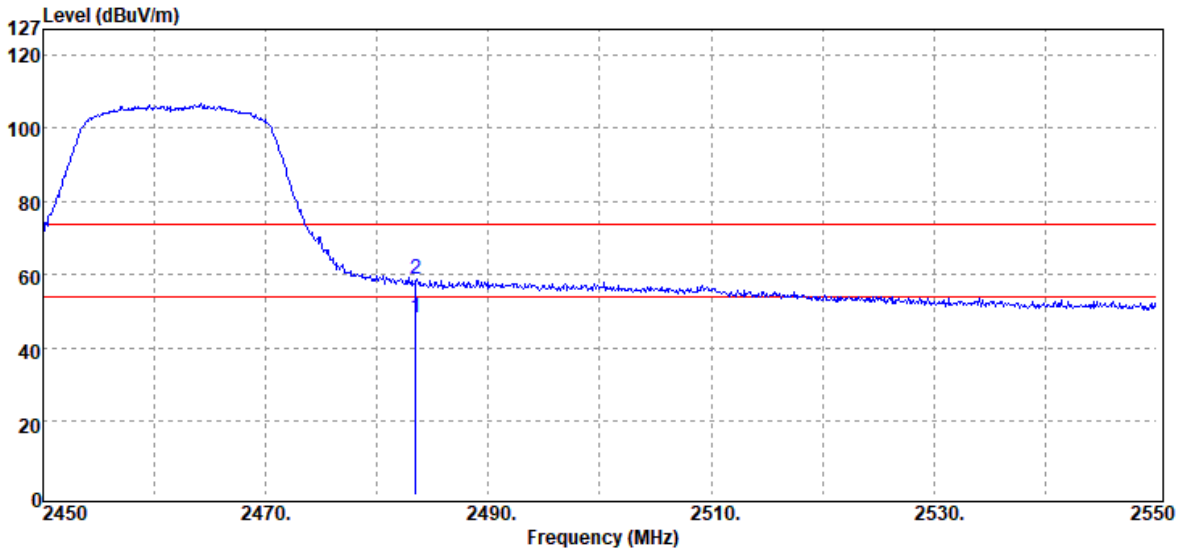
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Report Number :ER/2020/A0086
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-30
 Temp./Humi. :23.2/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 | 41.04 | 7.46 | 48.50 | 54.00 | -5.50 |
| 2483.50 | Peak | 51.29 | 7.46 | 58.75 | 74.00 | -15.25 |

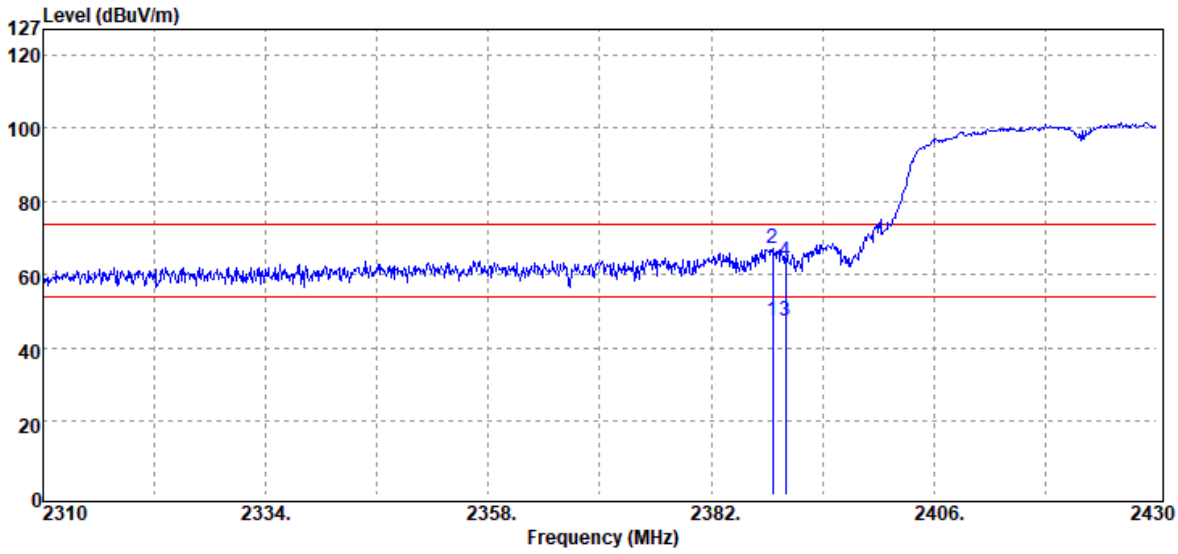
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Report Number :ER/2020/A0086
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-30
 Temp./Humi. :23.2/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | Detector Mode | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2388.60 | Average | 39.84 | 7.46 | 47.30 | 54.00 | -6.70 |
| 2388.60 | Peak | 59.60 | 7.46 | 67.06 | 74.00 | -6.94 |
| 2390.00 | Average | 40.14 | 7.46 | 47.60 | 54.00 | -6.40 |
| 2390.00 | Peak | 56.30 | 7.46 | 63.76 | 74.00 | -10.24 |

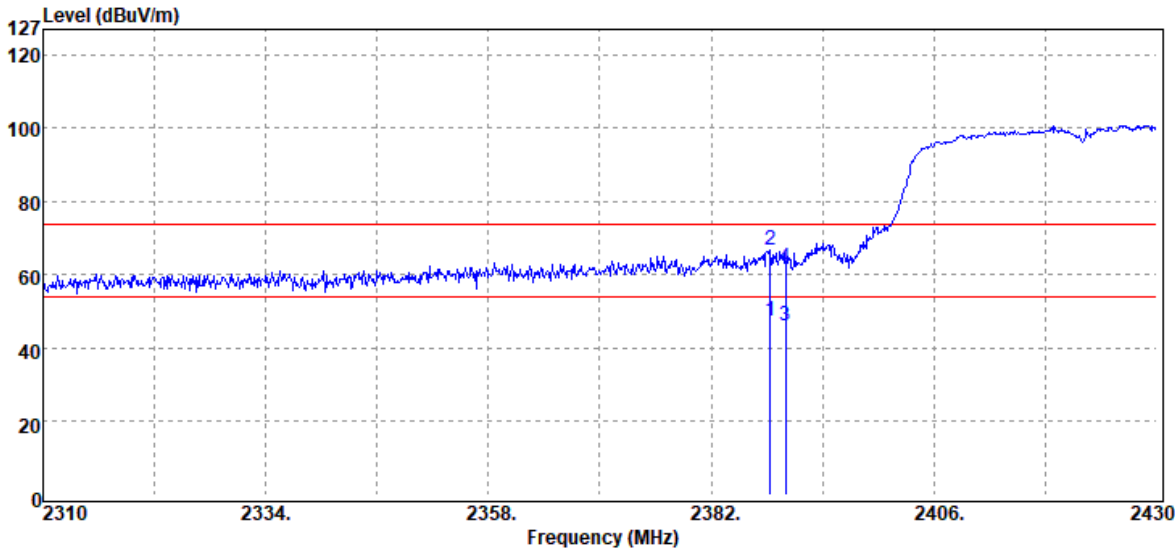
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Report Number :ER/2020/A0086
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-30
 Temp./Humi. :23.2/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2388.36 | Average | 39.83 | 7.46 | 47.29 | 54.00 | -6.71 |
| 2388.36 | Peak | 59.16 | 7.46 | 66.62 | 74.00 | -7.38 |
| 2390.00 | Average | 38.88 | 7.46 | 46.34 | 54.00 | -7.66 |
| 2390.00 | Peak | 54.60 | 7.46 | 62.06 | 74.00 | -11.94 |

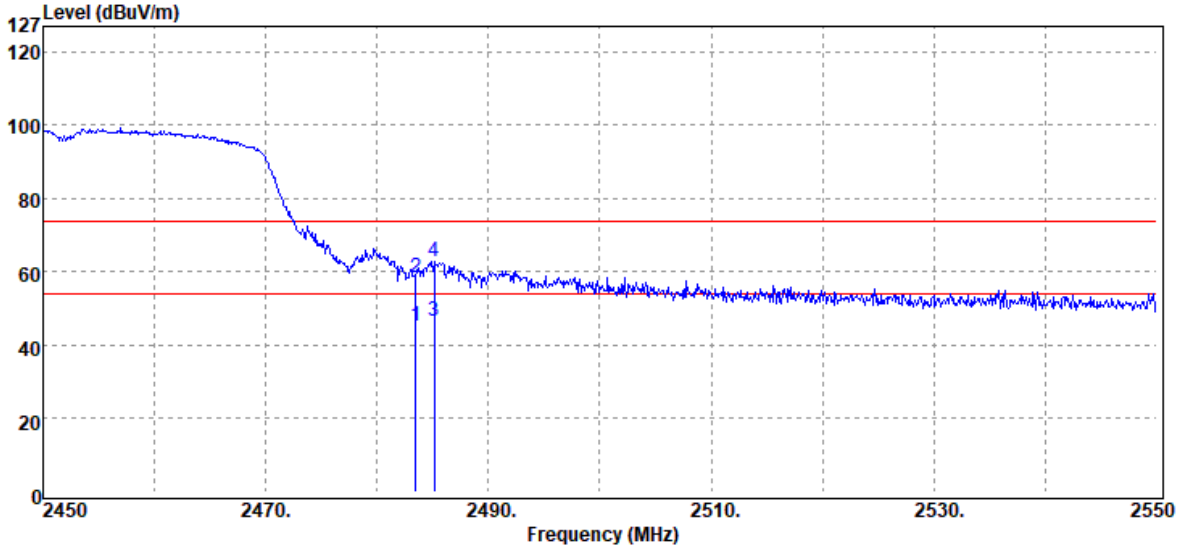
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Report Number :ER/2020/A0086
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-30
 Temp./Humi. :23.2/64
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 | 37.91 | 7.46 | 45.37 | 54.00 | -8.63 |
| 2483.50 | Peak | 51.19 | 7.46 | 58.65 | 74.00 | -15.35 |
| 2485.10 | Average | 39.12 | 7.46 | 46.58 | 54.00 | -7.42 |
| 2485.10 | Peak | 55.26 | 7.46 | 62.72 | 74.00 | -11.28 |

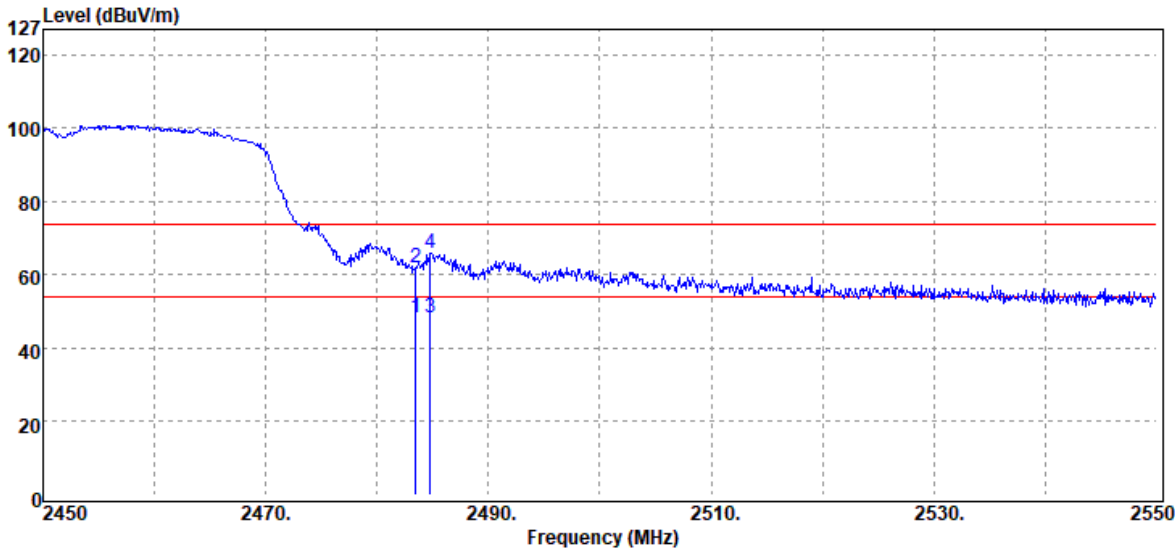
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Report Number :ER/2020/A0086
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-10-30
 Temp./Humi. :23.2/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 | 40.76 | 7.46 | 48.22 | 54.00 | -5.78 |
| 2483.50 | Peak | 54.44 | 7.46 | 61.90 | 74.00 | -12.10 |
| 2484.80 | Average | 40.96 | 7.46 | 48.42 | 54.00 | -5.58 |
| 2484.80 | Peak | 58.61 | 7.46 | 66.07 | 74.00 | -7.93 |

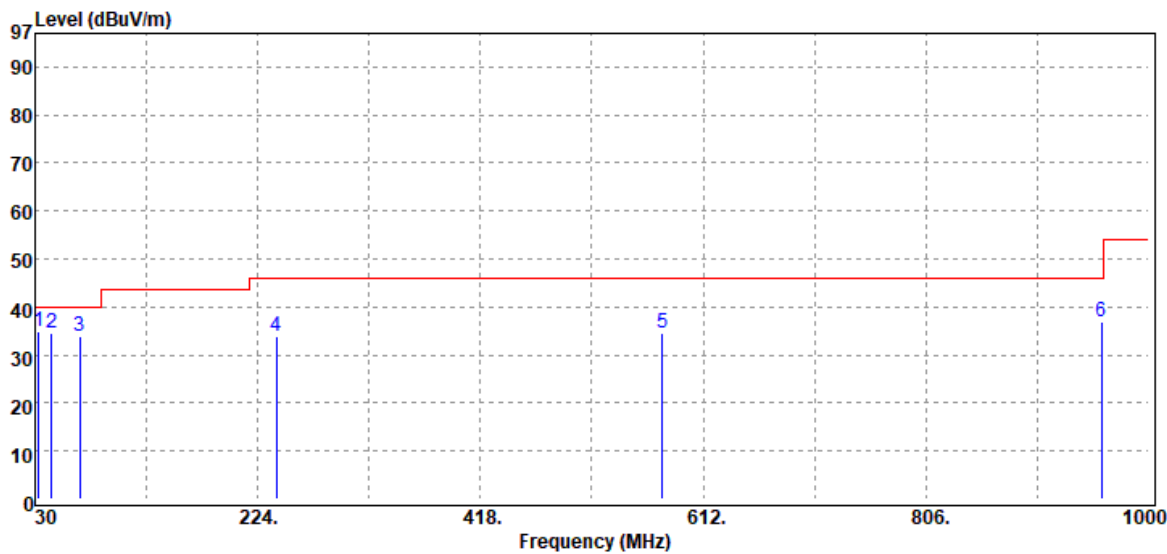
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7.7.2 Below 1GHz Worst-Case Emission:

| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :ER/2020/A0068 | Test Site | :SAC I Chamber |
| Operation Mode | :802.11g | Test Date | :2020-11-07 |
| Test Frequency | :2437 MHz | Temp./Humi. | :22.8/74 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :VERTICAL |
| EUT Pol | :NB Plane | Engineer | :Neo |



| Freq. MHz | Detector Mode | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 32.91 | Peak | 41.15 | -6.15 | 35.00 | 40.00 | -5.00 |
| 44.55 | Peak | 46.78 | -12.35 | 34.43 | 40.00 | -5.57 |
| 68.80 | Peak | 51.05 | -17.22 | 33.83 | 40.00 | -6.17 |
| 240.49 | Peak | 44.15 | -10.12 | 34.03 | 46.00 | -11.97 |
| 576.11 | Peak | 38.84 | -4.42 | 34.42 | 46.00 | -11.58 |
| 959.26 | Peak | 35.35 | 1.64 | 36.99 | 46.00 | -9.01 |

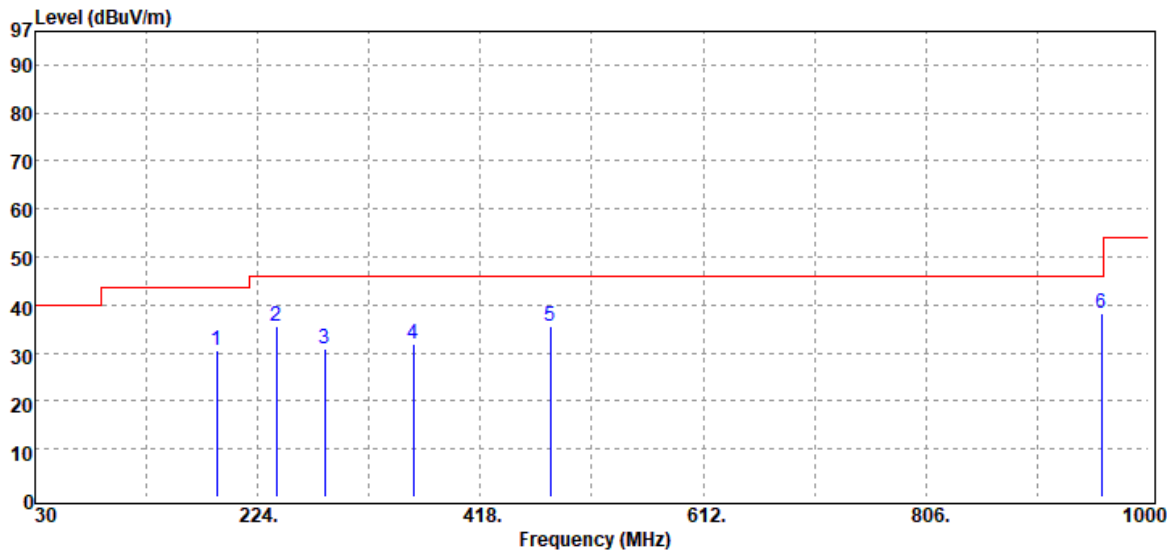
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Report Number :ER/2020/A0068
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :NB Plane

Test Site :SAC I Chamber
Test Date :2020-11-07
Temp./Humi. :22.8/74
Antenna Pol. :HORIZONTAL
Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 188.11 | Peak | 43.68 | -13.06 | 30.62 | 43.50 | -12.88 |
| 240.49 | Peak | 45.83 | -10.12 | 35.71 | 46.00 | -10.29 |
| 282.20 | Peak | 39.70 | -8.78 | 30.92 | 46.00 | -15.08 |
| 359.80 | Peak | 38.64 | -6.82 | 31.82 | 46.00 | -14.18 |
| 479.11 | Peak | 40.83 | -5.37 | 35.46 | 46.00 | -10.54 |
| 959.26 | Peak | 36.70 | 1.64 | 38.34 | 46.00 | -7.66 |

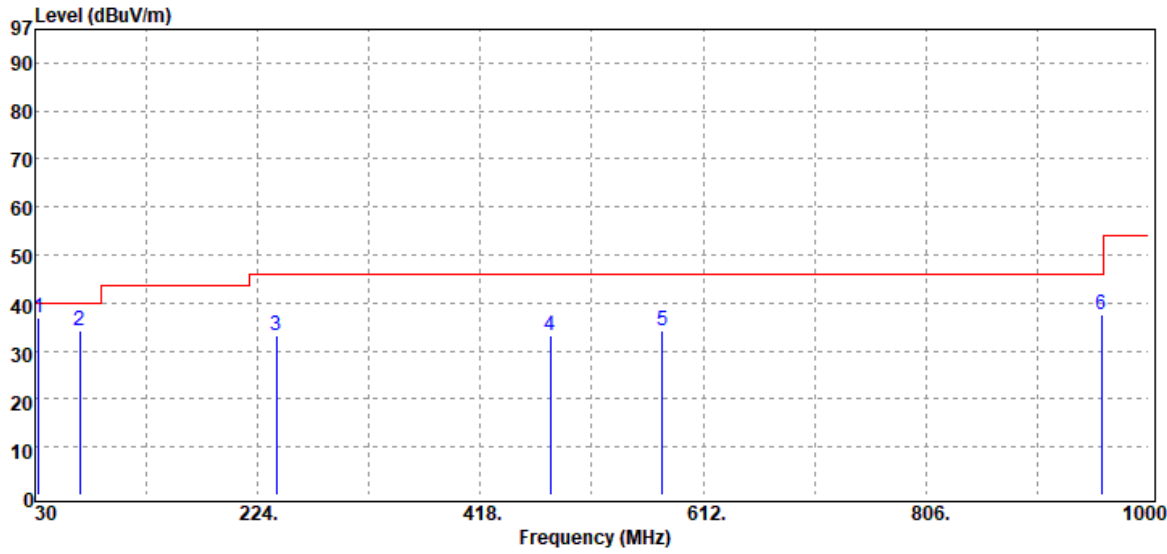
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Report Number :ER/2020/A0068
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-07
 Temp./Humi. :22.8/74
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 32.91 | Peak | 43.13 | -6.15 | 36.98 | 40.00 | -3.02 |
| 68.80 | Peak | 51.50 | -17.22 | 34.28 | 40.00 | -5.72 |
| 240.49 | Peak | 43.36 | -10.12 | 33.24 | 46.00 | -12.76 |
| 479.11 | Peak | 38.73 | -5.37 | 33.36 | 46.00 | -12.64 |
| 576.11 | Peak | 38.67 | -4.42 | 34.25 | 46.00 | -11.75 |
| 959.26 | Peak | 35.91 | 1.64 | 37.55 | 46.00 | -8.45 |

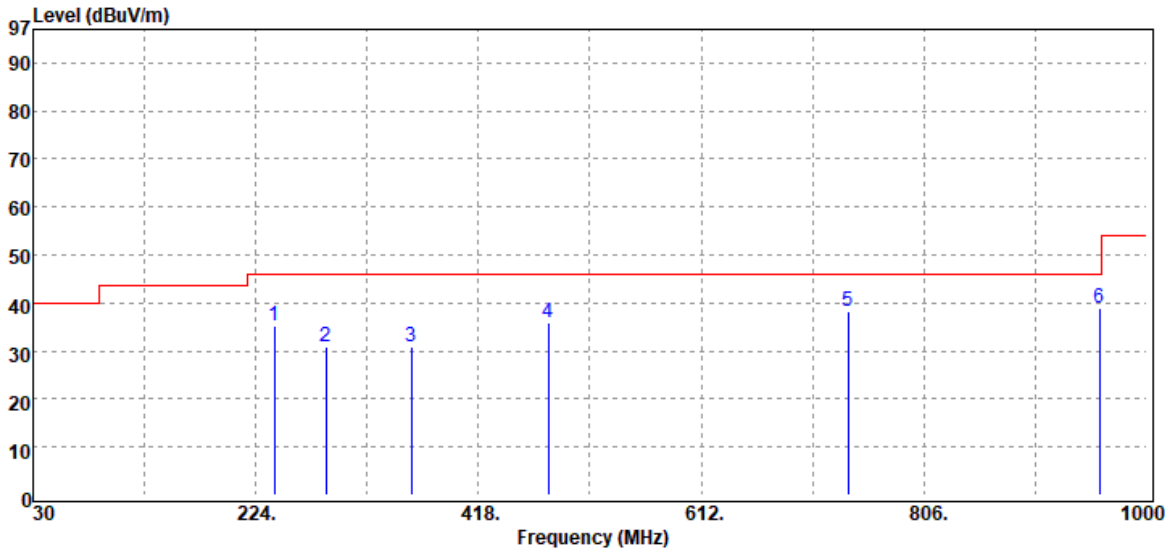
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Report Number :ER/2020/A0068
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :NB Plane

Test Site :SAC I Chamber
Test Date :2020-11-07
Temp./Humi. :22.8/74
Antenna Pol. :HORIZONTAL
Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 240.49 | Peak | 45.24 | -10.12 | 35.12 | 46.00 | -10.88 |
| 285.11 | Peak | 39.45 | -8.73 | 30.72 | 46.00 | -15.28 |
| 359.80 | Peak | 37.83 | -6.82 | 31.01 | 46.00 | -14.99 |
| 479.11 | Peak | 41.21 | -5.37 | 35.84 | 46.00 | -10.16 |
| 740.04 | Peak | 40.00 | -1.74 | 38.26 | 46.00 | -7.74 |
| 959.26 | Peak | 37.29 | 1.64 | 38.93 | 46.00 | -7.07 |

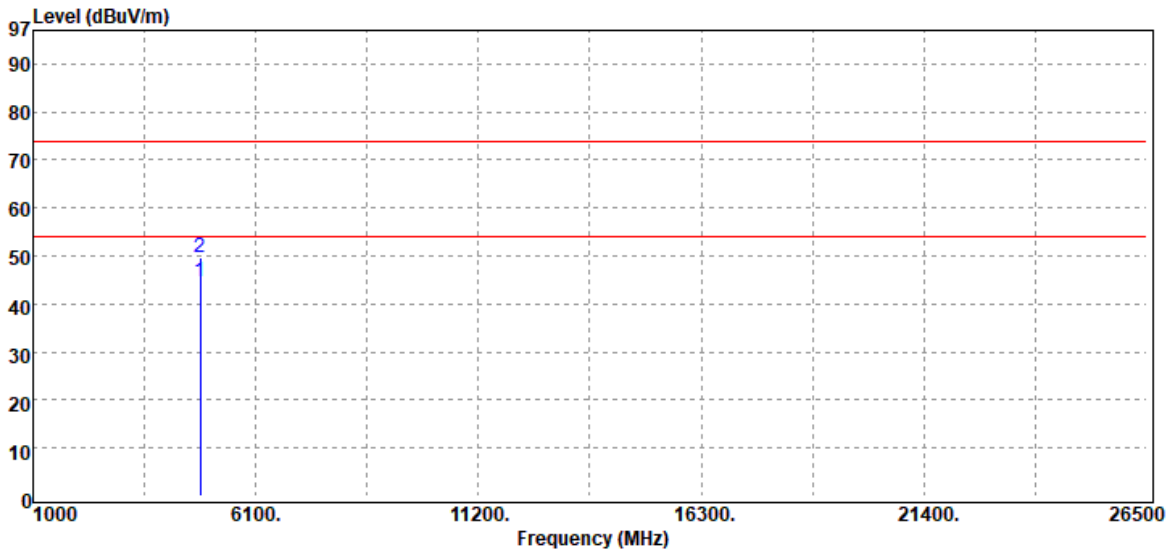
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7.7.3 Above 1GHz Emission:

| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :ER/2020/A0068 | Test Site | :SAC I Chamber |
| Operation Mode | :802.11b | Test Date | :2020-11-04 |
| Test Frequency | :2412 MHz | Temp./Humi. | :22.8/56 |
| Test Mode | :Tx CH Low | Antenna Pol. | :VERTICAL |
| EUT Pol | :NB Plane | Engineer | :Neo |



| 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 |
|--------------|------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 4824.00 | Average | 29.95 | 14.56 | 44.51 | 54.00 | -9.49 |
| 4824.00 | Peak | 35.25 | 14.56 | 49.81 | 74.00 | -24.19 |

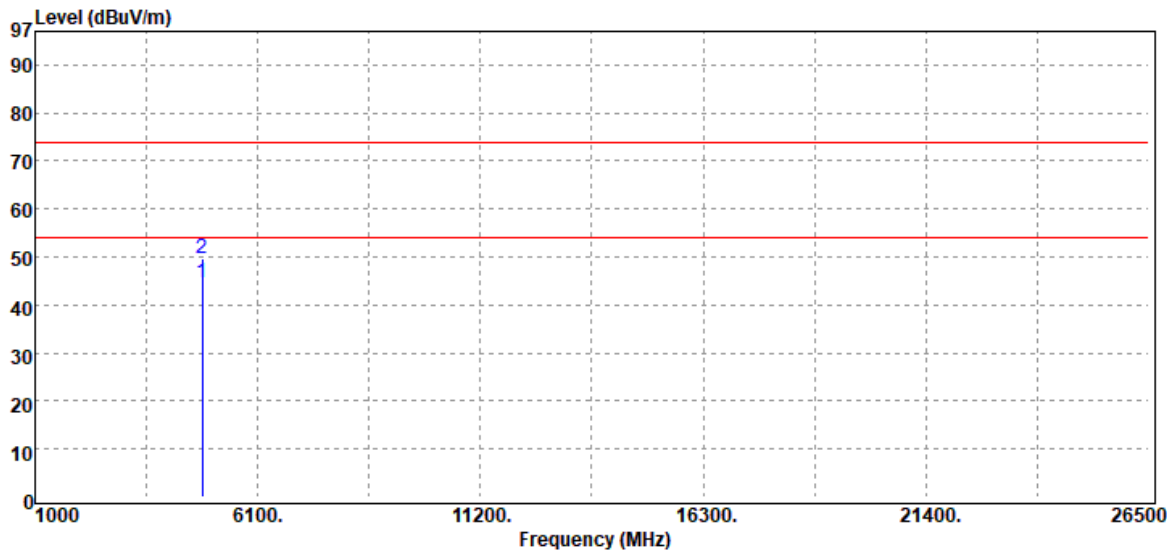
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Report Number :ER/2020/A0068
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-04
 Temp./Humi. :22.8/56
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 30.11 | 14.56 | 44.67 | 54.00 | -9.33 |
| 4824.00 | Peak | 35.05 | 14.56 | 49.61 | 74.00 | -24.39 |

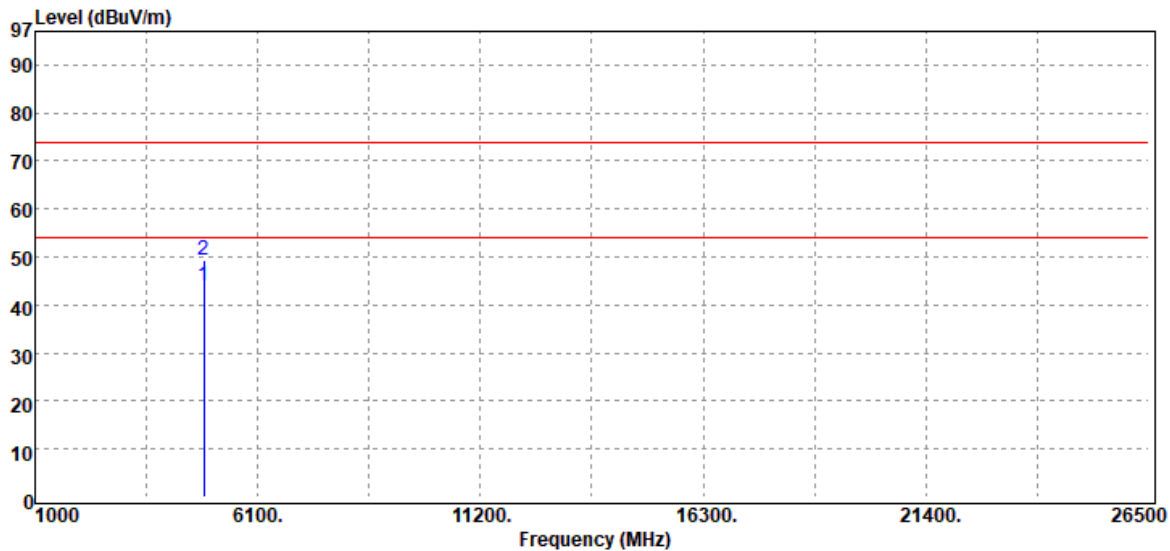
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Report Number :ER/2020/A0068
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 29.00 | 14.85 | 43.85 | 54.00 | -10.15 |
| 4874.00 | Peak | 34.52 | 14.85 | 49.37 | 74.00 | -24.63 |

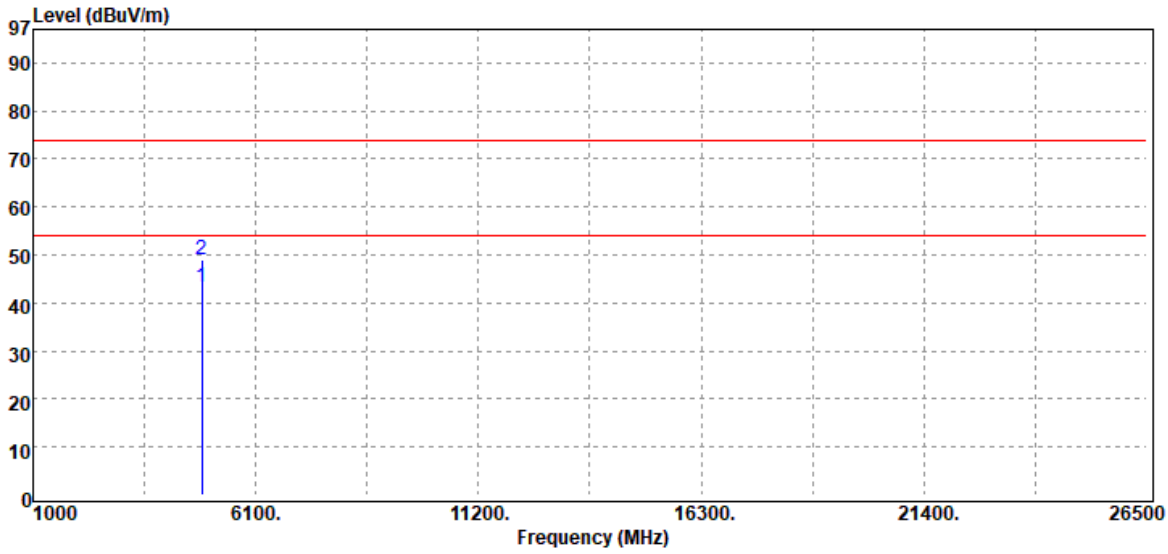
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Report Number :ER/2020/A0068
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 28.57 | 14.85 | 43.42 | 54.00 | -10.58 |
| 4874.00 | Peak | 34.09 | 14.85 | 48.94 | 74.00 | -25.06 |

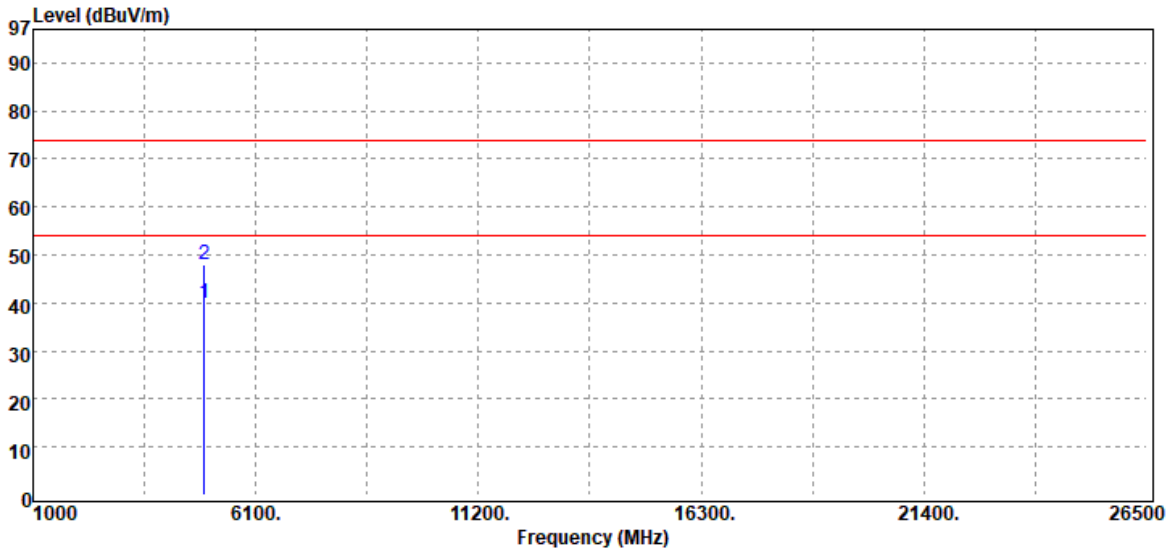
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Report Number :ER/2020/A0068
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 | 25.09 | 14.87 | 39.96 | 54.00 | -14.04 |
| 4924.00 | Peak | 33.23 | 14.87 | 48.10 | 74.00 | -25.90 |

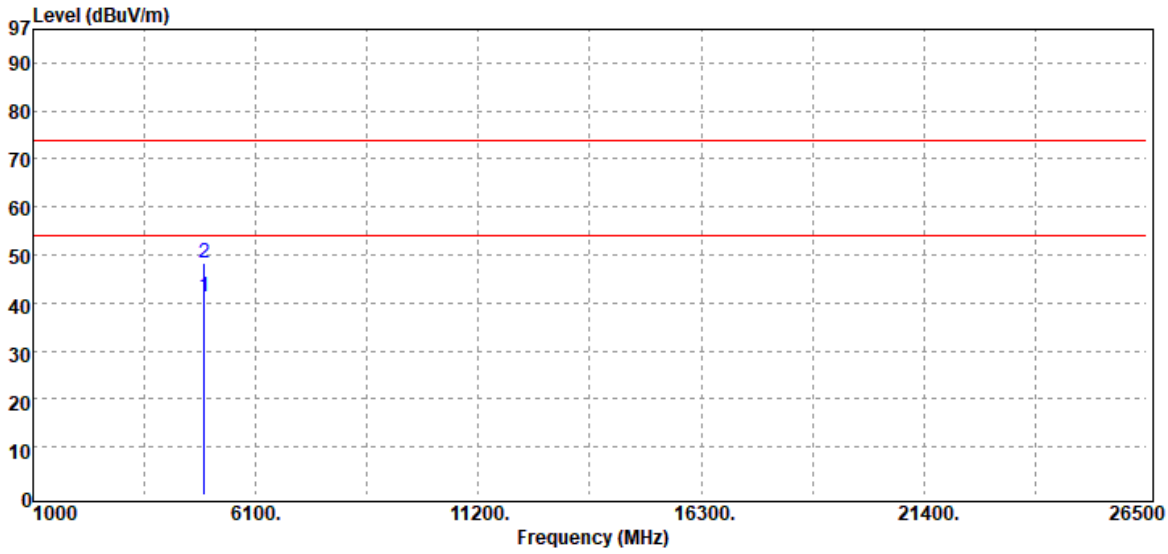
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Report Number :ER/2020/A0068
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 | 26.52 | 14.87 | 41.39 | 54.00 | -12.61 |
| 4924.00 | Peak | 33.43 | 14.87 | 48.30 | 74.00 | -25.70 |

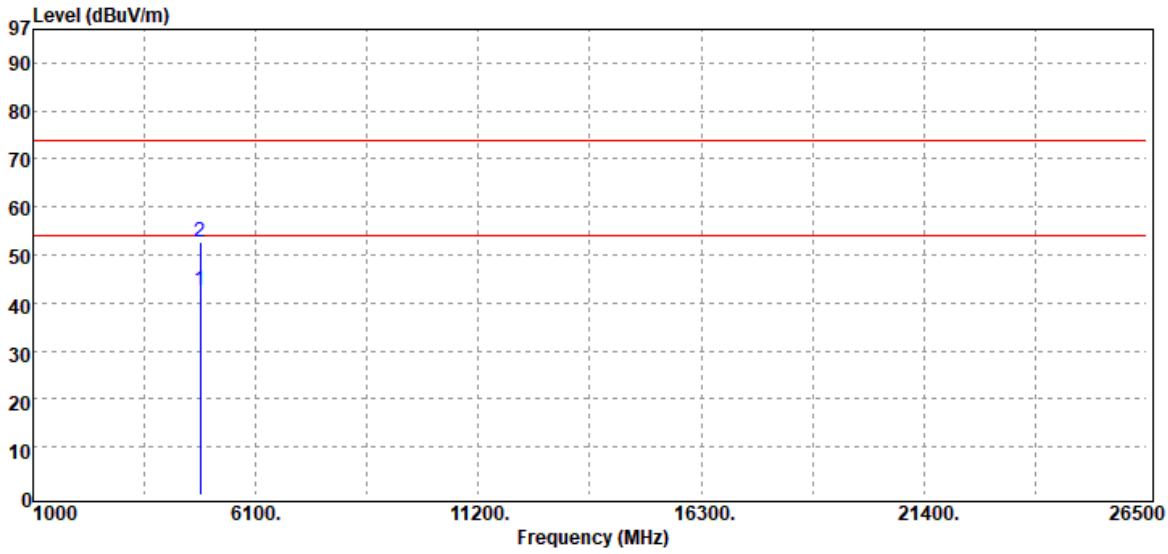
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Report Number :ER/2020/A0068
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 28.09 | 14.56 | 42.65 | 54.00 | -11.35 |
| 4824.00 | Peak | 38.22 | 14.56 | 52.78 | 74.00 | -21.22 |

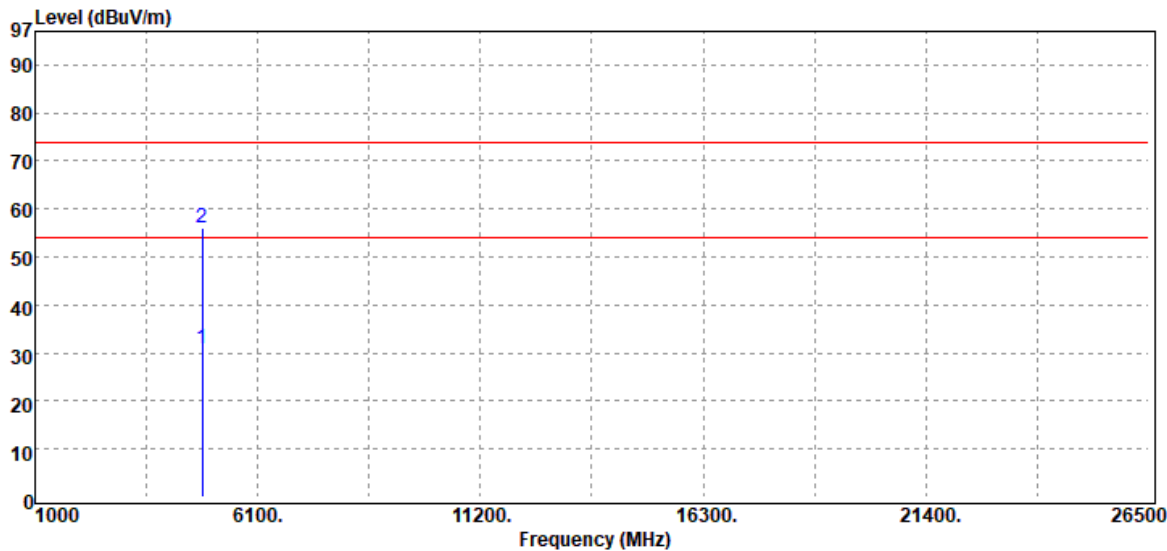
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Report Number :ER/2020/A0068
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 16.40 | 14.56 | 30.96 | 54.00 | -23.04 |
| 4824.00 | Peak | 41.39 | 14.56 | 55.95 | 74.00 | -18.05 |

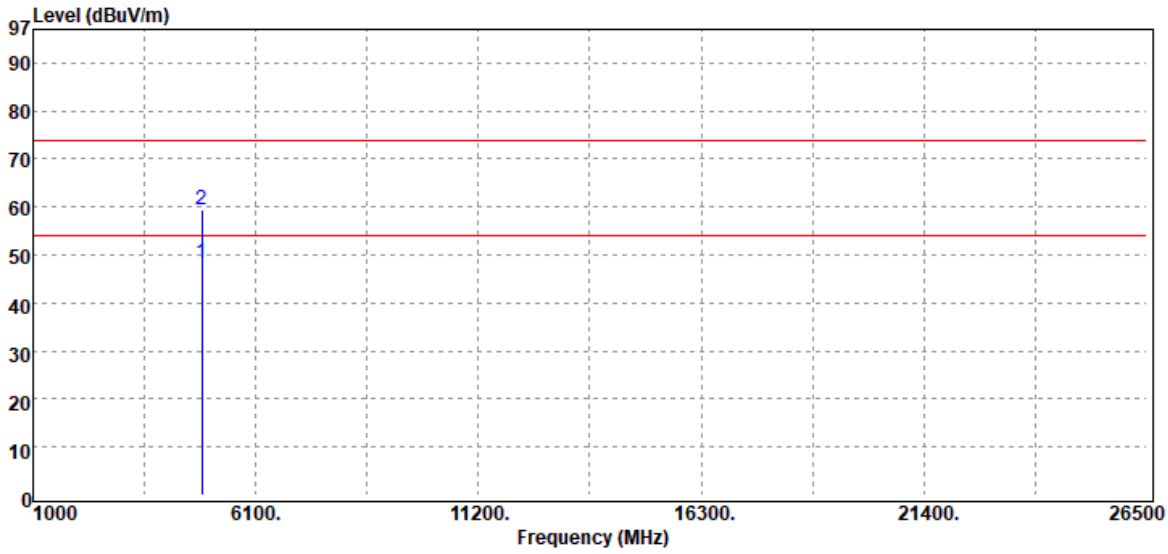
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Report Number :ER/2020/A0068
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 33.33 | 14.85 | 48.18 | 54.00 | -5.82 |
| 4874.00 | Peak | 44.63 | 14.85 | 59.48 | 74.00 | -14.52 |

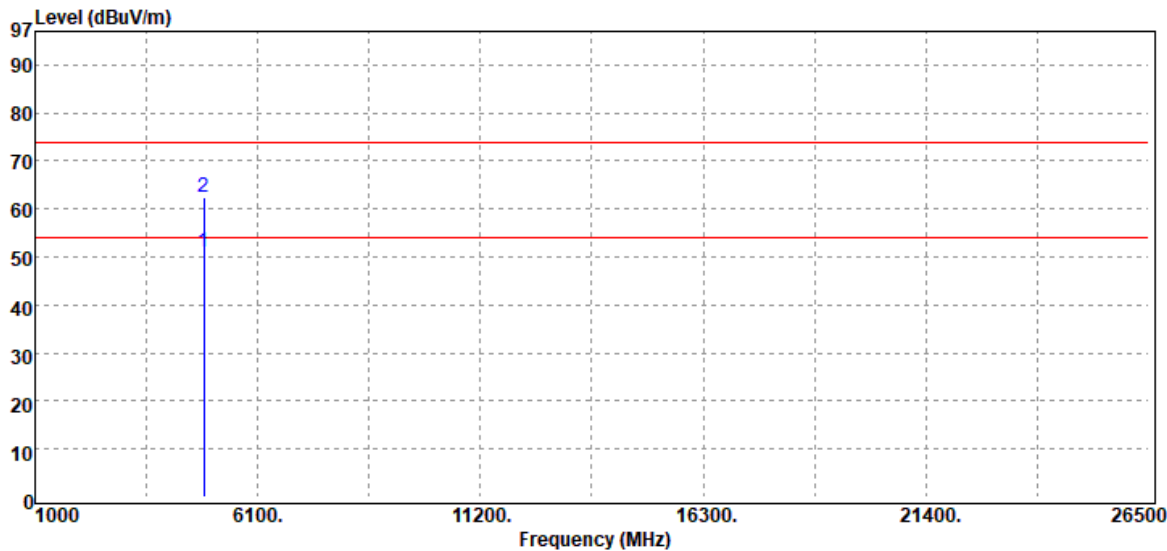
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Report Number :ER/2020/A0068
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 36.04 | 14.85 | 50.89 | 54.00 | -3.11 |
| 4874.00 | Peak | 47.69 | 14.85 | 62.54 | 74.00 | -11.46 |

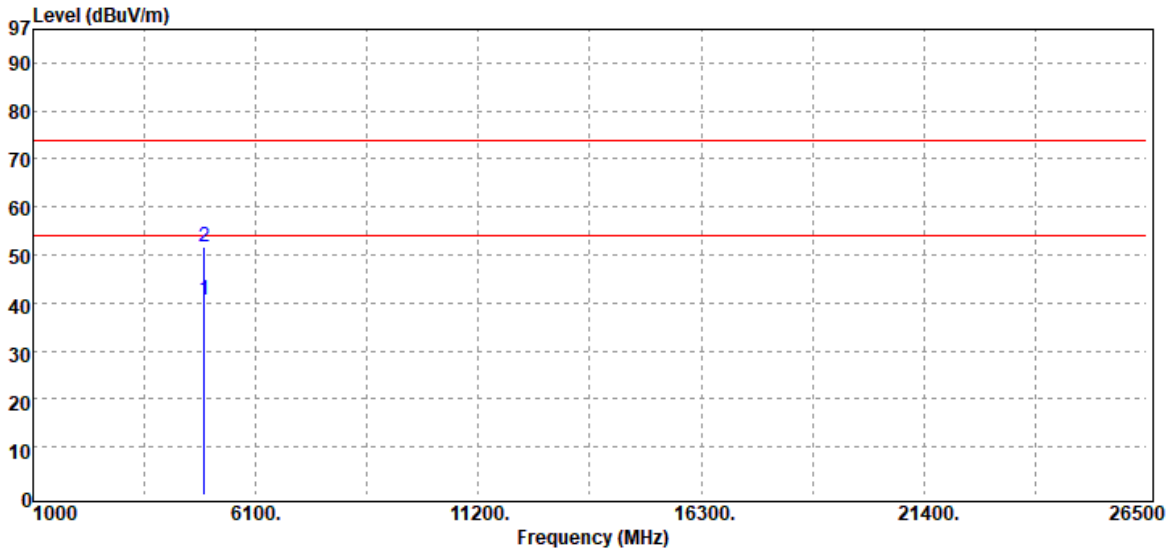
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Report Number :ER/2020/A0068
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 | 25.83 | 14.87 | 40.70 | 54.00 | -13.30 |
| 4924.00 | Peak | 36.90 | 14.87 | 51.77 | 74.00 | -22.23 |

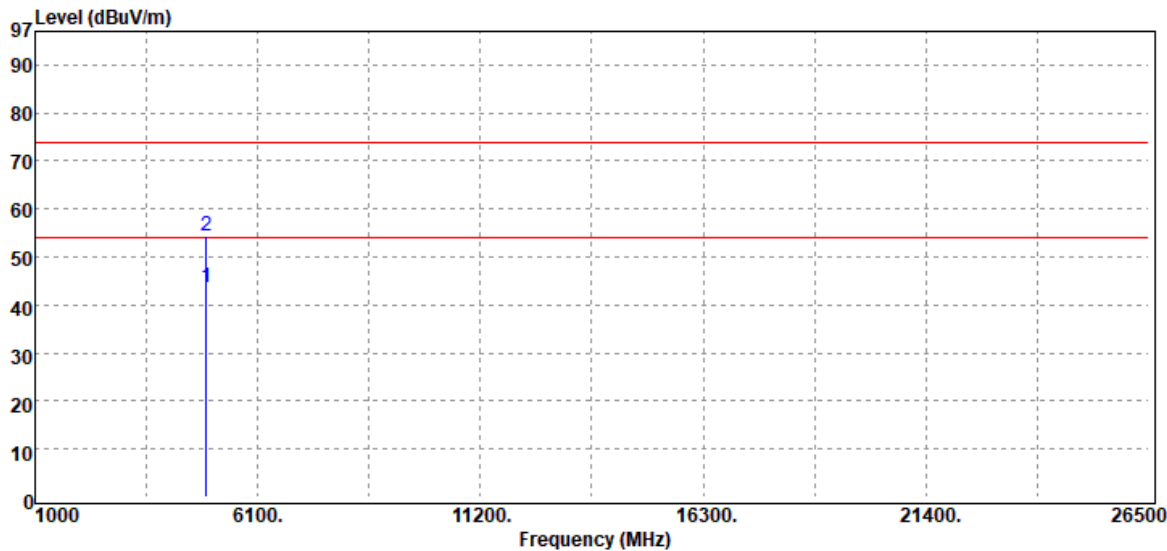
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Report Number :ER/2020/A0068
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | Detector Mode PK/QP/AV | 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 | 28.92 | 14.87 | 43.79 | 54.00 | -10.21 |
| 4924.00 | Peak | 39.61 | 14.87 | 54.48 | 74.00 | -19.52 |

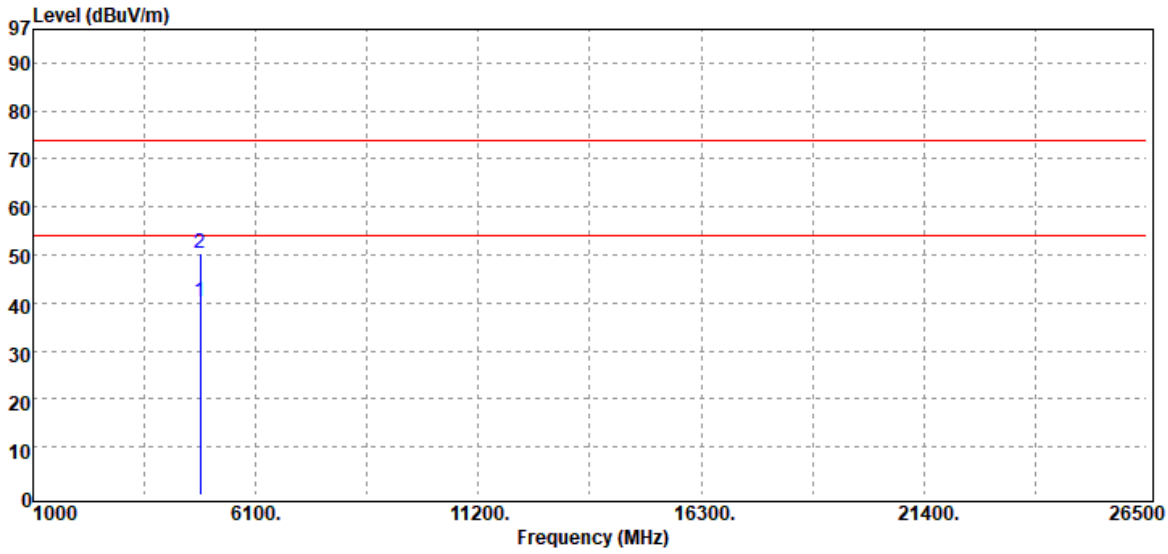
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Report Number :ER/2020/A0068
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 25.86 | 14.56 | 40.42 | 54.00 | -13.58 |
| 4824.00 | Peak | 35.66 | 14.56 | 50.22 | 74.00 | -23.78 |

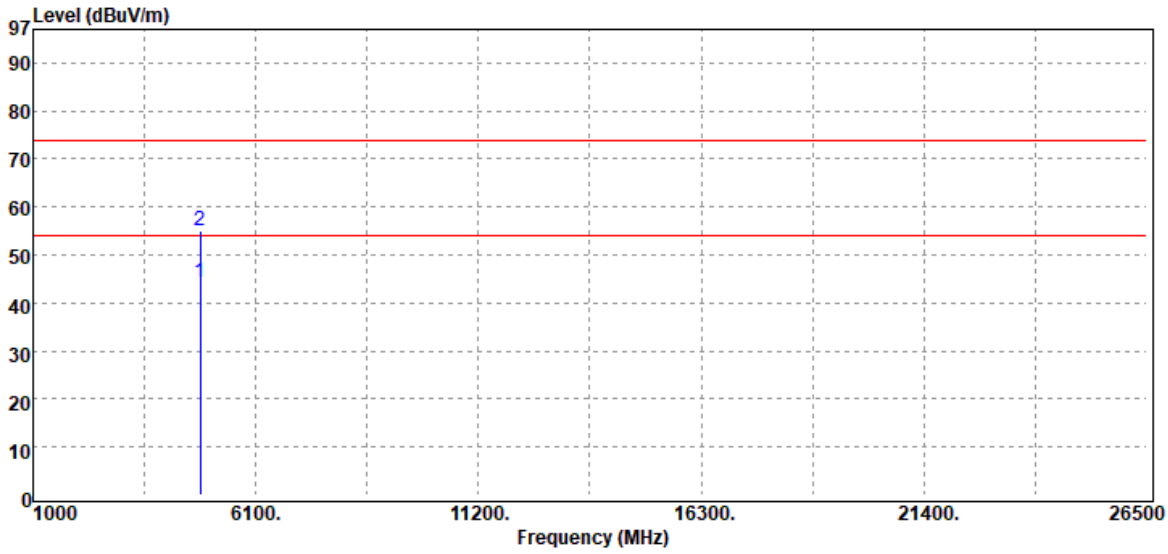
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Report Number :ER/2020/A0068
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 29.65 | 14.56 | 44.21 | 54.00 | -9.79 |
| 4824.00 | Peak | 40.50 | 14.56 | 55.06 | 74.00 | -18.94 |

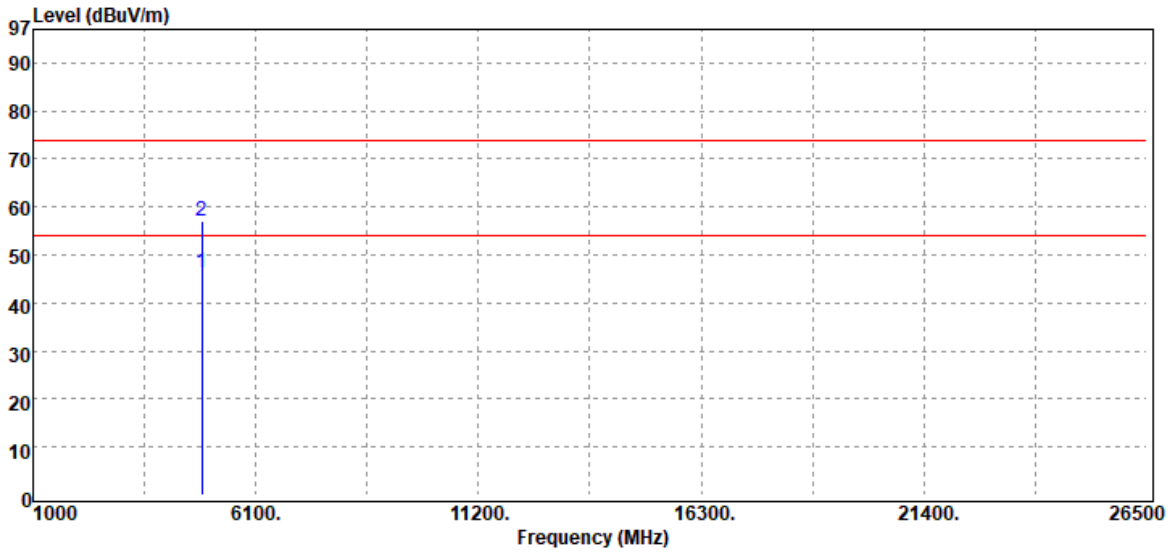
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Report Number :ER/2020/A0068
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 31.33 | 14.85 | 46.18 | 54.00 | -7.82 |
| 4874.00 | Peak | 42.32 | 14.85 | 57.17 | 74.00 | -16.83 |

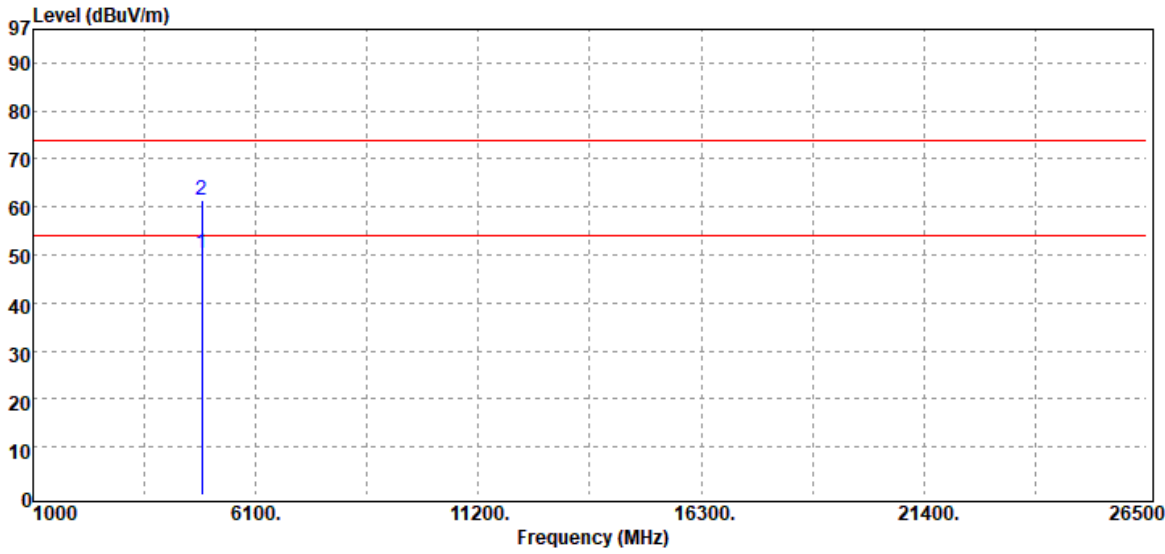
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Report Number :ER/2020/A0068
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 35.34 | 14.85 | 50.19 | 54.00 | -3.81 |
| 4874.00 | Peak | 46.47 | 14.85 | 61.32 | 74.00 | -12.68 |

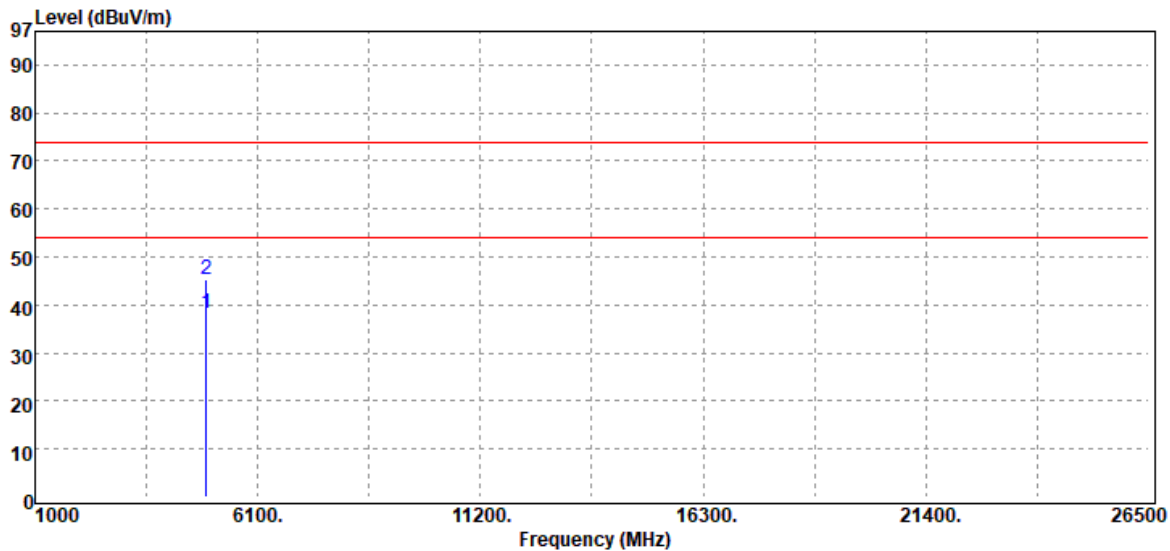
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Report Number :ER/2020/A0068
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 | 23.31 | 14.87 | 38.18 | 54.00 | -15.82 |
| 4924.00 | Peak | 30.58 | 14.87 | 45.45 | 74.00 | -28.55 |

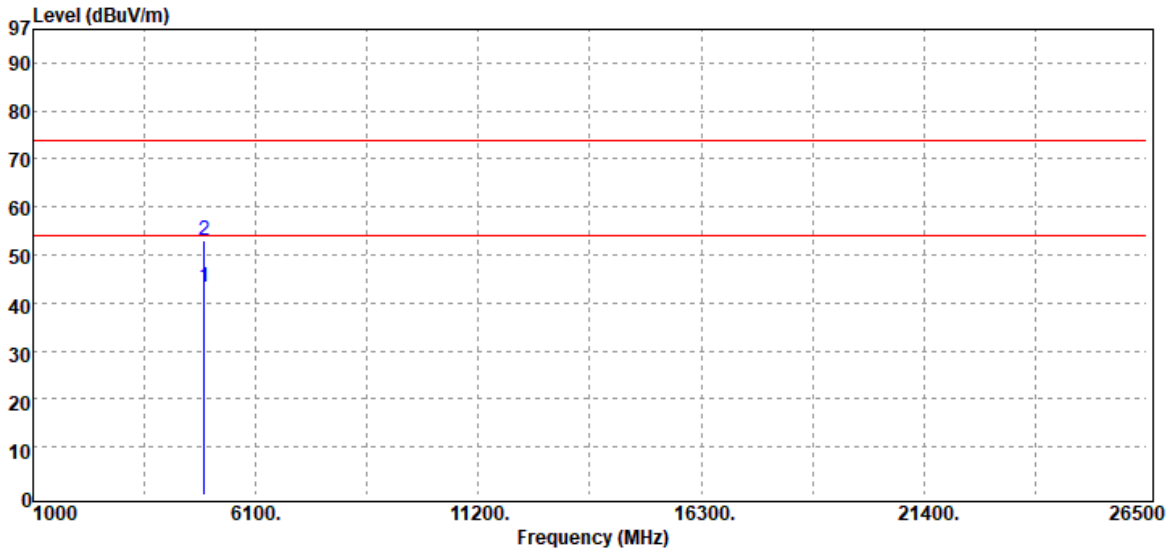
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Report Number :ER/2020/A0068
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 | 28.53 | 14.87 | 43.40 | 54.00 | -10.60 |
| 4924.00 | Peak | 38.14 | 14.87 | 53.01 | 74.00 | -20.99 |

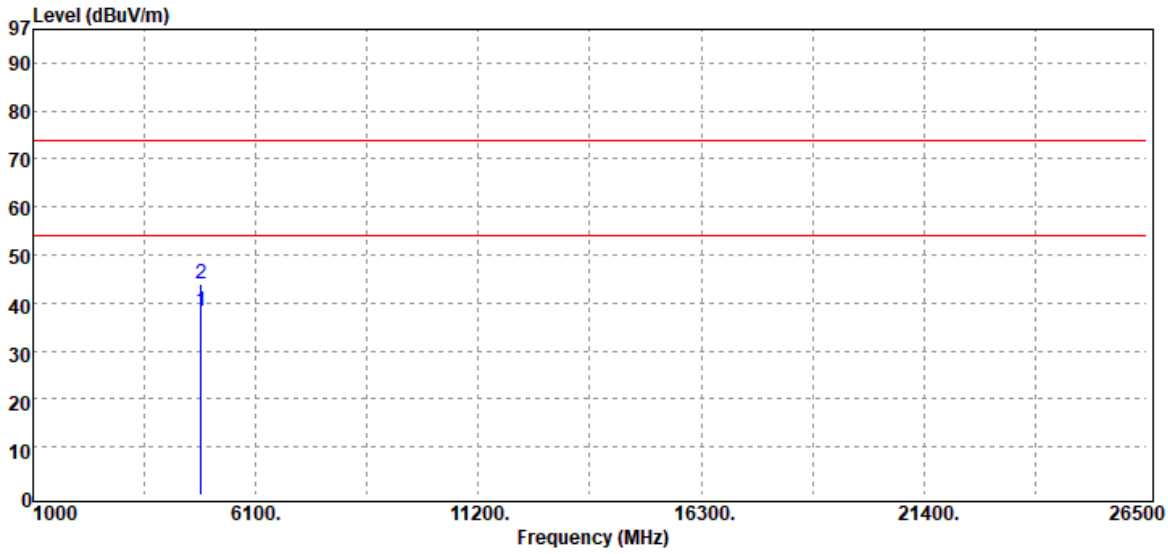
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Report Number :ER/2020/A0068
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 4844.00 | Average | 23.60 | 14.58 | 38.18 | 54.00 | -15.82 |
| 4844.00 | Peak | 29.34 | 14.58 | 43.92 | 74.00 | -30.08 |

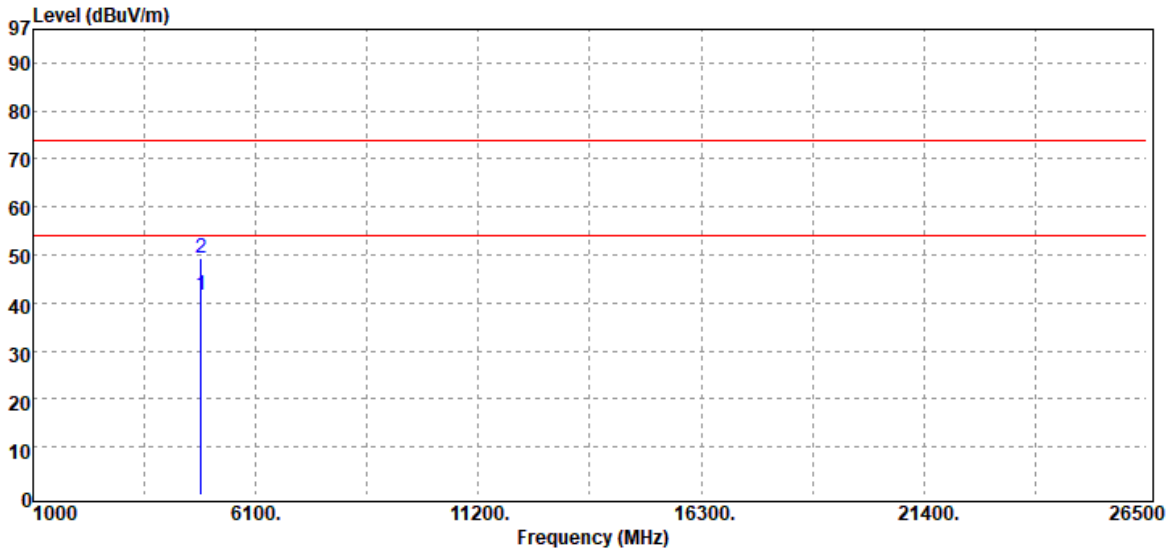
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Report Number :ER/2020/A0068
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4844.00 | Average | 26.97 | 14.58 | 41.55 | 54.00 | -12.45 |
| 4844.00 | Peak | 34.89 | 14.58 | 49.47 | 74.00 | -24.53 |

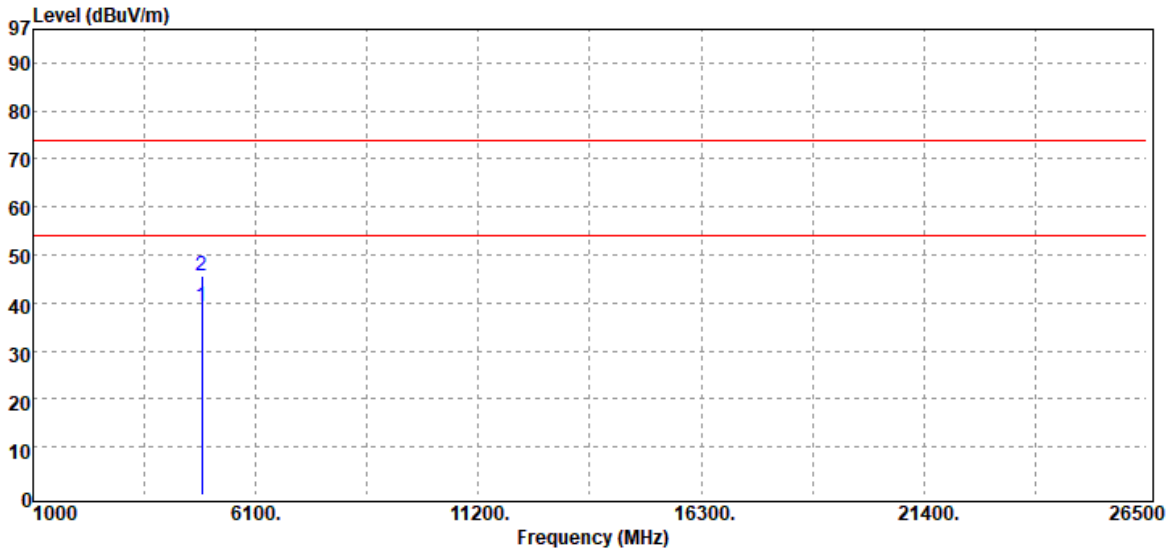
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Report Number :ER/2020/A0068
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 24.47 | 14.85 | 39.32 | 54.00 | -14.68 |
| 4874.00 | Peak | 30.80 | 14.85 | 45.65 | 74.00 | -28.35 |

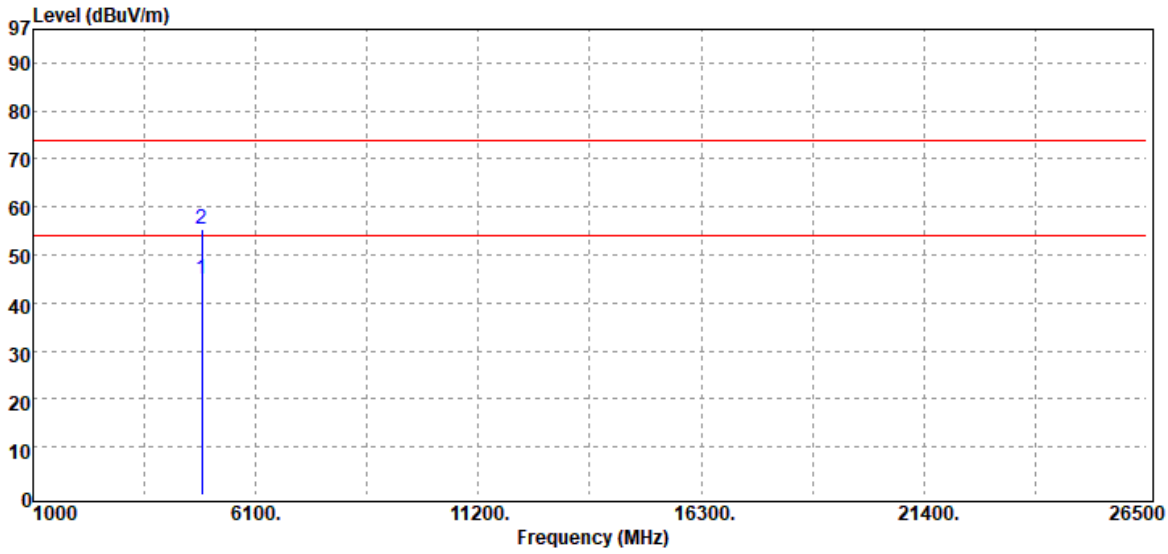
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Report Number :ER/2020/A0068
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 30.14 | 14.85 | 44.99 | 54.00 | -9.01 |
| 4874.00 | Peak | 40.54 | 14.85 | 55.39 | 74.00 | -18.61 |

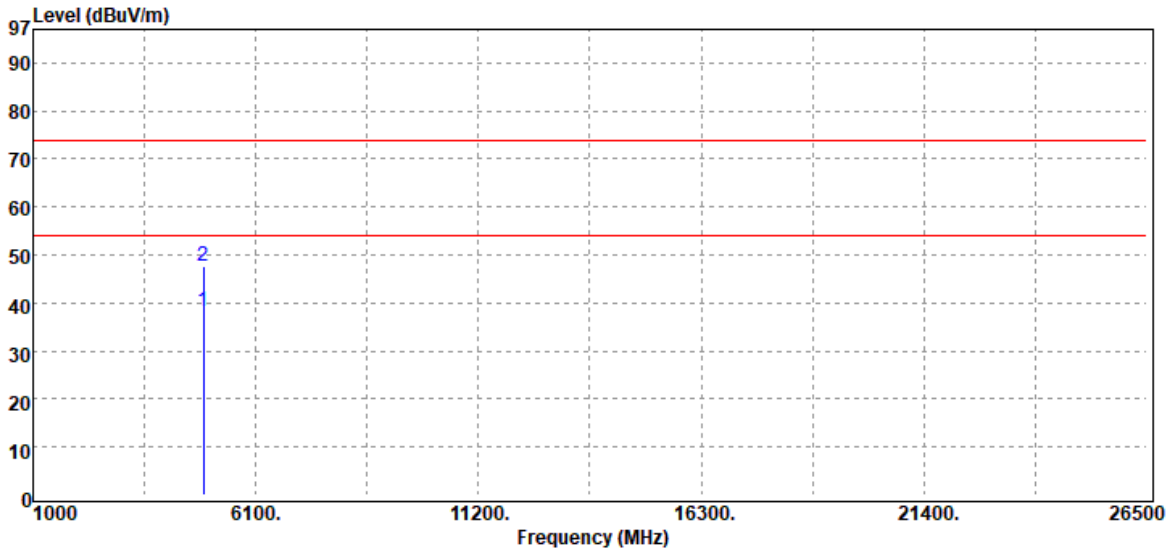
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Report Number :ER/2020/A0068
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :VERTICAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4904.00 | Average | 23.09 | 15.12 | 38.21 | 54.00 | -15.79 |
| 4904.00 | Peak | 32.48 | 15.12 | 47.60 | 74.00 | -26.40 |

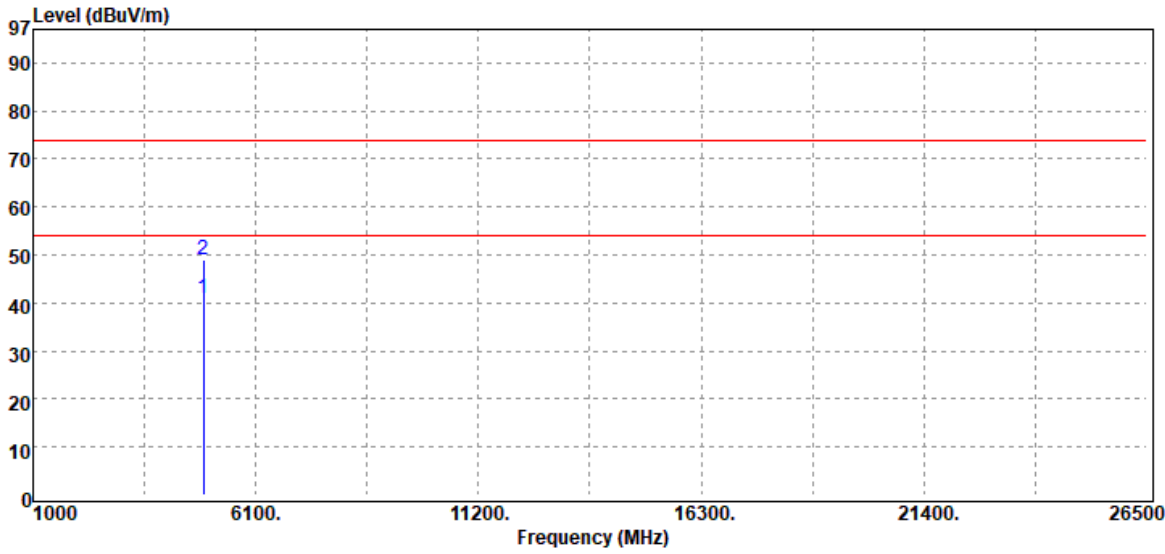
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Report Number :ER/2020/A0068
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :NB Plane

Test Site :SAC I Chamber
 Test Date :2020-11-05
 Temp./Humi. :22.5/57
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4904.00 | Average | 25.66 | 15.12 | 40.78 | 54.00 | -13.22 |
| 4904.00 | Peak | 33.80 | 15.12 | 48.92 | 74.00 | -25.08 |

~ End of Report ~

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