

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

FCC Applicant: Sercomm Corporation
8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan,
R.O.C.

FCC Manufacturer: Sercomm Corporation
8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan,
R.O.C.

Product Name: wireless device

Brand Name: N/A

Model No.: G7LYP

Family Model No.: GPJ15

Report Number: TERF2501000383ER

FCC ID P27-G7LYP

Date of EUT Received: November 14, 2024

Date of Test: January 17, 2025~February 05, 2025

Issue Date: February 27, 2025

Jazz Huang

Approved By _____

Jazz Huang

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.

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

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Revision History

| Report Number | Revision | Description | Issue Date | Revised By | Remark |
|------------------|----------|-------------|-------------------|------------|--------|
| TERF2501000383ER | 00 | Original | February 27, 2025 | Yuri Tsai | |
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Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL INFORMATION

1.1 Product Description

| | |
|------------------------------|---------------------------------------------------------|
| Product Name: | wireless device |
| Brand Name: | N/A |
| Model No.: | G7LYP |
| Family Model No.: | GPJ15 |
| Model Difference: | The model difference is detailed in Theory of Operation |
| EUT Series No.: | 51111XHWCW013L8 |
| Power Supply: | G7LYP: 12 Vdc GPJ15: 7.5 Vdc |
| Test Software (Name/Version) | Tera Term /Version 4.106 |

1.2 RF Specification

WLAN 2.4GHz

| Mode | Frequency Range | Channels | Rated Power (dBm) | | Modulation Technology |
|------------------|---------------------------------------------------|----------|-------------------|-------|-----------------------|
| | | | Peak | Avg. | |
| 802.11b | 2412~2462 | 11 | 20.57 | 17.75 | DSSS |
| 802.11g | 2412~2462 | 11 | 24.62 | 17.90 | OFDM |
| 802.11n_HT20 | 2412~2462 | 11 | 24.54 | 17.80 | OFDM |
| Modulation type: | CCK, DQPSK, DBPSK for DSSS in 802.11b | | | | |
| | 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n | | | | |
| Data Rate: | 802.11b: 1/2/5.5/11 Mbps | | | | |
| | 802.11g: 6/9/12/18/24/36/48/54 Mbps | | | | |
| | 802.11n_HT20: up to 72.2Mbps | | | | |

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1.3 Antenna Designation

| Antenna Type | Ant 1 / Ant 2 | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|---------------|-------------|-------------------------|
| PIFA | Ant 1 | 2400-2483.5 | 2.79 |
| PIFA | Ant 2 | 2400-2483.5 | 2.69 |

Note:

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

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02
 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 2 | | |
| | | SAC 3 | | |
| | | Conduction 1 | | |
| | | Conducted 1 | | |
| | | Conducted 2 | | |
| | | Conducted 3 | | |
| | | Conducted 4 | | |
| | | Conducted 5 | | |
| | Conducted 6 | | | |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C | TW0028 | |
| | | SAC C | | |
| | | SAC D | | |
| | | SAC G | | |
| | | Conducted A | | |
| | | Conducted B | | |
| | | Conducted C | | |
| | | Conducted D | | |
| | | Conducted E | | |
| Conducted F | | | | |
| Conducted G | | | | |

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

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted 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

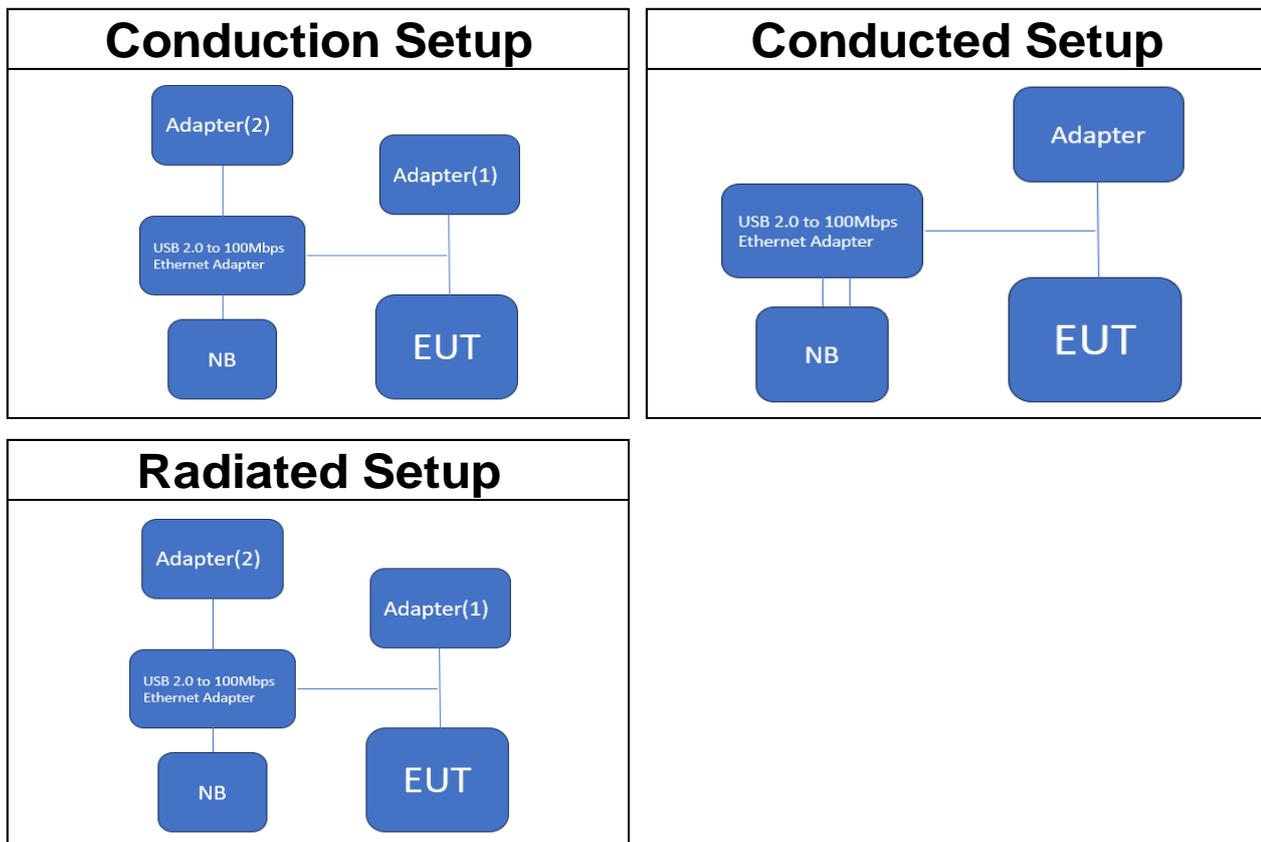
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration



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2.6 Control Unit(s)

| AC Power-Line Conducted Emission Test Site: Conduction 1 | | | | | |
|----------------------------------------------------------|----------------------------|--------------|-----------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| USB Cable | N/A | N/A | N/A | N/A | N/A |
| Adapter(1) | Mass Power Electronics inc | G6F3X | N/A | N/A | N/A |
| Adapter(2) | Apple | A1385 | N/A | N/A | N/A |
| LAN Cable | UGREEN | 50184 | N/A | N/A | N/A |
| USB 2.0 to 100Mbps Ethernet Adapter | UGREEN | CR110 | N/A | N/A | N/A |
| Notebook | Lenovo | L480 | PF-1S9Q32 19/07 | N/A | N/A |
| Conducted Emission Test Site: Conducted 1 | | | | | |
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| USB Cable | N/A | N/A | N/A | N/A | N/A |
| LAN Cable | Mediabridge | Cat5e | N/A | N/A | N/A |
| USB 2.0 to 100Mbps Ethernet Adapter | UGREEN | CR110 | N/A | N/A | N/A |
| Adapter | Mass Power Electronics inc | G6F3X | N/A | N/A | N/A |
| Notebook | Lenovo | L480 | PF-1S9Q32 19/07 | N/A | N/A |
| Radiated Emission Test Site: SAC 2 | | | | | |
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| USB Cable | N/A | N/A | N/A | N/A | N/A |
| Adapter(1) | Mass Power Electronics inc | G6F3X | N/A | N/A | N/A |
| Adapter(2) | Apple | A1385 | N/A | N/A | N/A |
| LAN Cable | UGREEN | 50184 | N/A | N/A | N/A |
| USB 2.0 to 100Mbps Ethernet Adapter | UGREEN | CR110 | N/A | N/A | N/A |
| Notebook | Lenovo | L480 | PF-1S9Q32 19/07 | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|-----------------------|-------------------------------------------|-----------|
| §15.207(a) | AC Power Line Conducted Emission | Compliant |
| §15.247(b) (3) | Peak Output Power | Compliant |
| §15.247(a)(2) | Emission Bandwidth | Compliant |
| §15.209 §15.247(d) | Conducted Band Edge and Spurious Emission | Compliant |
| §15.209 §15.247(d) | Radiated Band Edge and Spurious Emission | Compliant |
| §15.205 | Restricted Bands | Compliant |
| §15.247(e) | Power Spectral Density | Compliant |
| §15.203 | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

| 2400~2483.5 MHz | |
|-----------------|----------------|
| 20MHz | |
| CH | Freq. (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 given UE is pre-scanned among below modes.

| Mode | | Transmission Chain | | | | | | Single Transmission Spatial | | | |
|------|-----------|--------------------|-----|---|-----|--|-----|-----------------------------|-----|---|-----|
| V | 802.11 b | V | Ch0 | V | Ch1 | | Ch2 | | Ch3 | V | 1TX |
| V | 802.11 g | V | Ch0 | V | Ch1 | | Ch2 | | Ch3 | V | 1TX |
| V | 802.11 n | V | Ch0 | V | Ch1 | | Ch2 | | Ch3 | V | 1TX |
| | 802.11 ac | | Ch0 | | Ch1 | | Ch2 | | Ch3 | | 1TX |
| | 802.11 ax | | Ch0 | | Ch1 | | Ch2 | | Ch3 | | 1TX |
| | 802.11 be | | Ch0 | | Ch1 | | Ch2 | | Ch3 | | 1TX |

The worst-case Ch1 data will be presented in the test report.

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

Full test_Model No._G7LYP

| CONDUCTED TEST | | | | | |
|----------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 1,6,11 | DSSS | 1 | Ch1 |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 | Ch1 |
| 802.11n_HT20 | 1 to 11 | 1,6,11 | OFDM | MCS0 | Ch1 |

| PEAK OUTPUT POWER / RADIATED BANDEDGE TEST | | | | | |
|--------------------------------------------|-------------------|---------------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 1,6,11 | DSSS | 1 | Ch1 |
| 802.11g | 1 to 11 | 1,2,3,4,6,8,9,10,11 | OFDM | 6 | Ch1 |
| 802.11n_HT20 | 1 to 11 | 1,2,3,4,6,8,9,10,11 | OFDM | MCS0 | Ch1 |

| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|-----------------------------------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11g | 1 to 11 | 6 | OFDM | 6 | Ch1 |

| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
|-----------------------------------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 1,6,11 | DSSS | 1 | Ch1 |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 | Ch1 |
| 802.11n_HT20 | 1 to 11 | 1,6,11 | OFDM | MCS0 | Ch1 |

Spot check_Model No._GPJ15

| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|-----------------------------------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11g | 1 to 11 | 6 | OFDM | 6 | Ch1 |

Note:

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

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|----------------------------------|-------------|
| AC Power Line Conducted Emission | +/- 1.54 dB |
| Output Power measurement | +/- 0.97 dB |
| Emission Bandwidth | +/- 1.38 Hz |
| Conducted emission measurement | +/- 0.77 dB |
| Peak Power Density | +/- 0.61 dB |
| Temperature | +/- 0.6 °C |
| Humidity | +/- 3 % |
| DC / AC Power Source | +/- 1 % |

| Radiated Spurious Emission Measurement Uncertainty | | | | |
|----------------------------------------------------|-----|------|----|-----------------|
| Polarization: Vertical | +/- | 1.89 | dB | 9kHz~30MHz |
| | +/- | 4.15 | dB | 30MHz - 1000MHz |
| | +/- | 3.43 | dB | 1GHz - 18GHz |
| | +/- | 3.86 | dB | 18GHz - 40GHz |
| Polarization: Horizontal | +/- | 1.89 | dB | 9kHz~30MHz |
| | +/- | 4.02 | dB | 30MHz - 1000MHz |
| | +/- | 3.43 | dB | 1GHz - 18GHz |
| | +/- | 3.86 | dB | 18GHz - 40GHz |
| Radiated Spurious Emission | +/- | 2 | dB | 33GHz-50GHz |
| | +/- | 1.59 | dB | 50GHz-60GHz |
| | +/- | 1.7 | dB | 60GHz-90GHz |
| | +/- | 1.64 | dB | 90GHz-140GHz |
| | +/- | 3.83 | dB | 140GHz-220GHz |

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction 1 | | | | | |
|----------------------------------------------------------|-----------------------|----------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Coaxial Cables | EMC Instruments Corp. | EMCCFD300-BM-BM-3000 | 161207 | 06/22/2024 | 06/21/2025 |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 08/28/2024 | 08/27/2025 |
| LISN | SCHWARZBECK | NSLK 8127 | 1040 | 09/07/2024 | 09/06/2025 |
| LISN | SCHWARZBECK | NSLK 8127 | 1041 | 11/04/2024 | 11/03/2025 |
| Pulse Limiter | SCHWARZBECK | VTSD 9561F-N | 793 | 06/22/2024 | 06/21/2025 |
| Test Software | Audix | e3 | Ver. 9.210616 | N.C.R | N.C.R |

6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted 1 | | | | | |
|-------------------------------------------|---------------|---------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Attenuator | Mini-Circuits | BW-S10W2+ | 1 | 12/11/2024 | 12/10/2025 |
| DC Block | Mini-Circuits | BLK-18-S+ | 10 | 12/11/2024 | 12/10/2025 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY59071570 | 06/25/2024 | 06/24/2025 |
| Power Meter | Anritsu | ML2496A | 1242004 | 10/23/2024 | 10/22/2025 |
| Power Sensor | Anritsu | MA2411B | 1207365 | 10/23/2024 | 10/22/2025 |
| Power Sensor | Anritsu | MA2411B | 1207368 | 10/23/2024 | 10/22/2025 |
| Test Software | SGS | Radio Test Software | Ver. 21 | N.C.R | N.C.R |

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6.3 Radiated Measurement

| Radiated Emission Test Site: SAC 2 | | | | | |
|------------------------------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| 4G High Pass Filter | WI | WHKX4.0 | 22 | 12/11/2024 | 12/10/2025 |
| Attenuator | Mini-Circuits | BW-S10W2+ | 23 | 12/11/2024 | 12/10/2025 |
| Band Reject Filter 2400-2483.5 | EWT | EWT-14-0166 | M3 | 12/11/2024 | 12/10/2025 |
| Bi-log Antenna | SCHWARZBECK | VULB9168 | 9168-1278 | 03/04/2024 | 03/03/2025 |
| Coaxial Cables | EMCI | EMC104-SM-SM-600 +EMC105-SM-SM-2000 +EMC105-SM-SM-1500 +EMC105-SM-SM-10000 | RX Cable 9K-18G (220237+220909+220906+240801) | 08/30/2024 | 08/29/2025 |
| Coaxial Cables | Huber Suhner | SUCOFLEX 102 | RX Cable 18G-40G MY2630/2+805062/2 | 08/30/2024 | 08/29/2025 |
| EMI Test Receiver | R&S | ESR 7 | 102525 | 02/17/2024 | 02/16/2025 |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY60242392 | 12/24/2024 | 12/23/2025 |
| Horn Antenna | RF SPIN | DRH0844 | LE2D05A0844 | 07/10/2024 | 07/09/2025 |
| Horn Antenna | RF SPIN | DRH18-E | 210303A18-ES | 02/16/2024 | 02/15/2025 |
| Loop Antenna | COM-POWER | AL-130R | 10160104 | 12/19/2024 | 12/18/2025 |
| Pre-Amplifier | EMCI | EMC118A45SEE | 980867 | 08/30/2024 | 08/29/2025 |
| Pre-Amplifier | EMCI | EMC184045SEE | 9080939 | 08/30/2024 | 08/29/2025 |
| Pre-Amplifier | EMCI | EMC330N | 980826 | 08/30/2024 | 08/29/2025 |
| Site Cal | SGS | SAC 2 | N/A | 08/30/2024 | 08/29/2025 |
| Test Software | Audix | e3 | Ver. 9.210616 | N.C.R | N.C.R |

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

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

| Frequency range MHz | Limits (dBuV) | |
|------------------------|------------------|----------|
| | 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 |

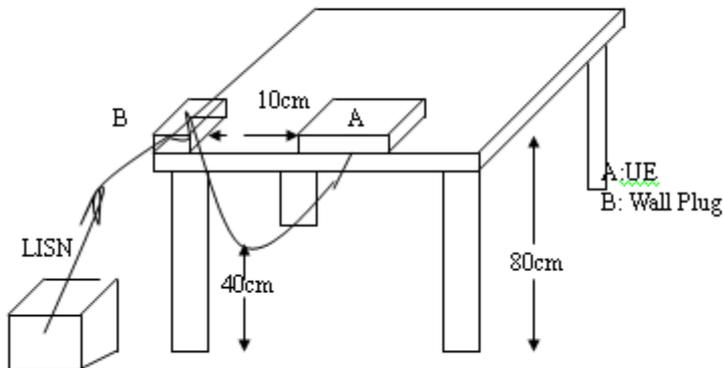
Note

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

7.2 EUT Setup:

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

7.3 Test Setup



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7.4 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

7.5 Measurement Result

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

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

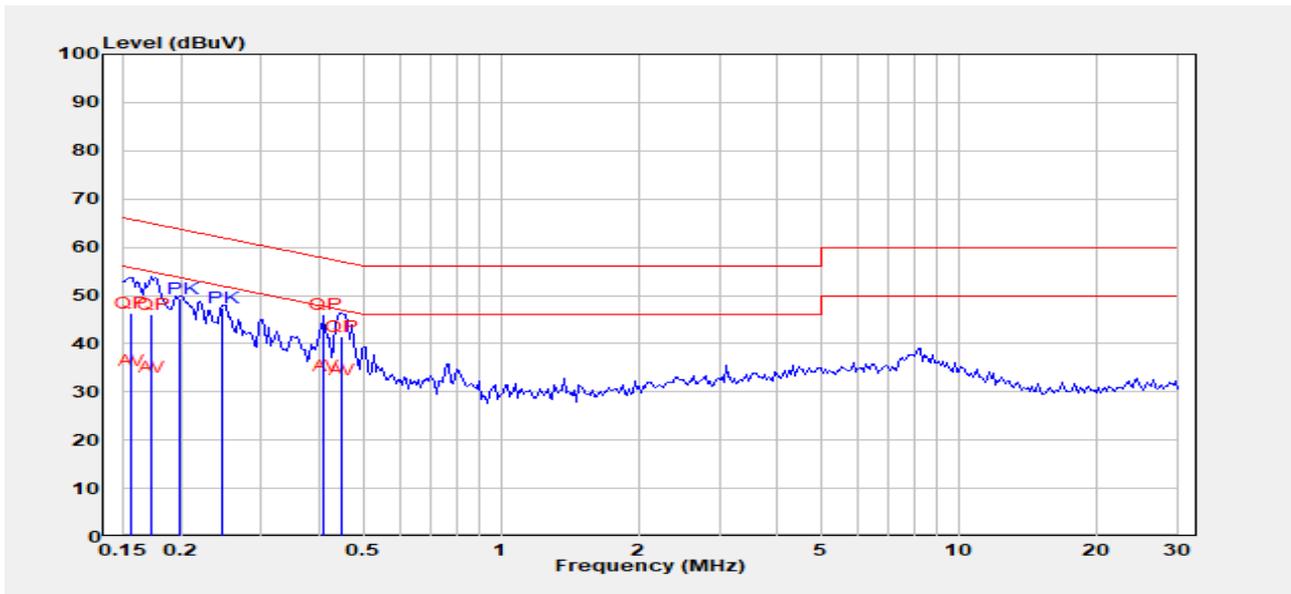
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2501000383ER
 Operation Mode :WLAN 2.4G
 Power :120V/60Hz
 Probe :L
 Note: :

Test Site :Conduction 1
 Test Date :2025-02-04
 Temp./Humi. :22.1°C/58%
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV | Limit dBμV | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|----------------------|---------------|--------------|
| 0.155 | Average | 24.17 | 10.13 | 34.30 | 55.74 | -21.44 |
| 0.155 | QP | 36.32 | 10.13 | 46.45 | 65.74 | -19.29 |
| 0.172 | Average | 22.88 | 10.13 | 33.01 | 54.86 | -21.85 |
| 0.172 | QP | 35.83 | 10.13 | 45.96 | 64.86 | -18.90 |
| 0.200 | Peak | 39.32 | 10.13 | 49.45 | 63.62 | -14.17 |
| 0.247 | Peak | 37.36 | 10.14 | 47.50 | 61.86 | -14.36 |
| 0.410 | Average | 23.18 | 10.15 | 33.33 | 47.64 | -14.31 |
| 0.410 | QP | 36.05 | 10.15 | 46.20 | 57.64 | -11.44 |
| 0.447 | Average | 22.26 | 10.16 | 32.42 | 46.93 | -14.52 |
| 0.447 | QP | 31.42 | 10.16 | 41.58 | 56.93 | -15.36 |

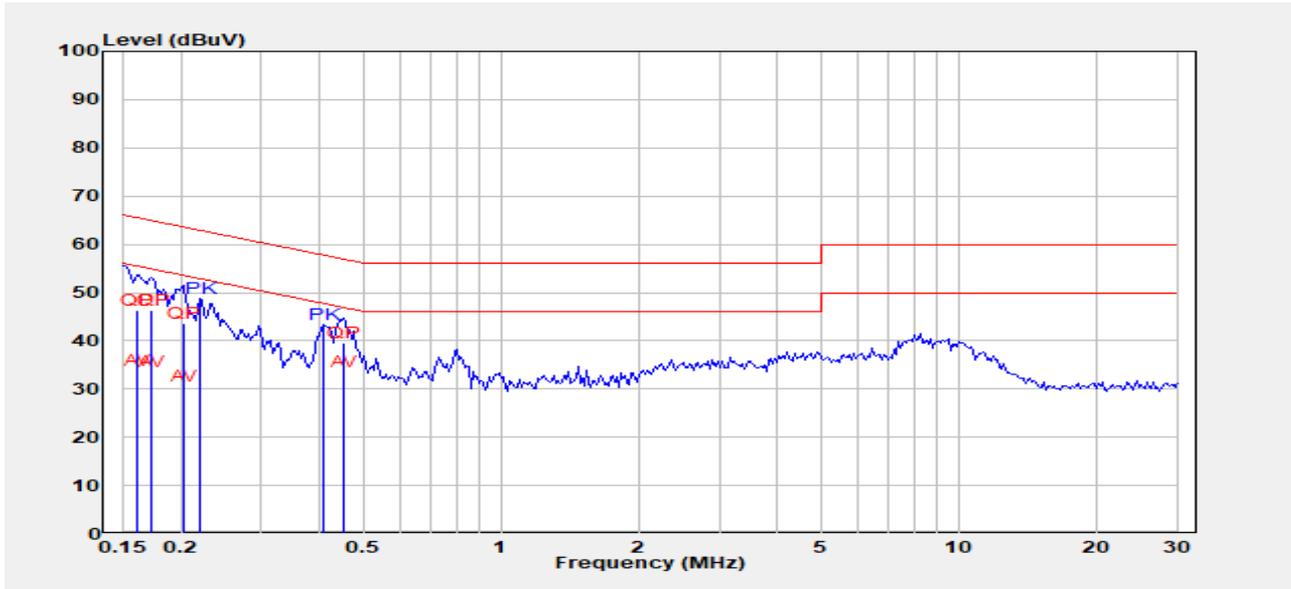
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Report Number :TERF2501000383ER
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 Power :120V/60Hz
 Probe :N
 Note: :

Test Site :Conduction 1
 Test Date :2025-02-04
 Temp./Humi. :22.1°C/58%
 Engineer :Bob Chao



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------|-----------------------------------------|--------------|----------------------------|---------------------|--------------|
| 0.160 | Average | 23.75 | 10.12 | 33.87 | 55.47 | -21.60 |
| 0.160 | QP | 36.12 | 10.12 | 46.24 | 65.47 | -19.23 |
| 0.172 | Average | 23.36 | 10.12 | 33.48 | 54.86 | -21.38 |
| 0.172 | QP | 36.12 | 10.12 | 46.24 | 64.86 | -18.62 |
| 0.202 | Average | 20.59 | 10.12 | 30.71 | 53.54 | -22.83 |
| 0.202 | QP | 33.45 | 10.12 | 43.57 | 63.54 | -19.97 |
| 0.220 | Peak | 38.55 | 10.12 | 48.67 | 62.83 | -14.16 |
| 0.410 | Peak | 33.20 | 10.15 | 43.35 | 57.64 | -14.29 |
| 0.452 | Average | 23.41 | 10.16 | 33.57 | 46.85 | -13.28 |
| 0.452 | QP | 29.33 | 10.16 | 39.49 | 56.85 | -17.36 |

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.1.1 Duty Cycle

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

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

8.1.2 FCC

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

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

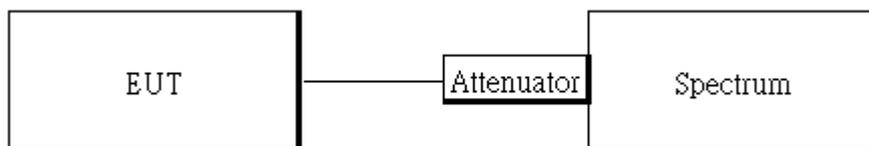
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

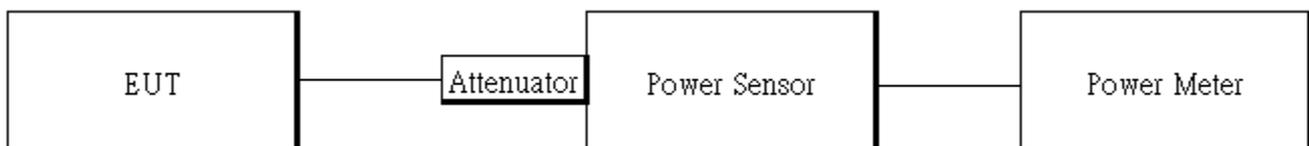
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power:



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8.3 Measurement Procedure

8.3.1 Duty Cycle:

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

8.3.2 Output Power

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

Power Meter:

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

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

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

8.4 Measurement Result

8.4.1 Duty Cycle:

| Mode | Duty Cycle (%) = Ton / (Ton+Toff) | Duty Factor (dB) =10*log (1/Duty Cycle) | 1/T (kHz) | VBW setting (kHz) |
|------------|--------------------------------------|----------------------------------------------|-----------|-------------------|
| 802.11b | 99.62 | 0.02 | 0.19 | 0.01 |
| 802.11g | 92.86 | 0.32 | 0.70 | 1.00 |
| 802.11n_20 | 92.41 | 0.34 | 0.75 | 1.00 |

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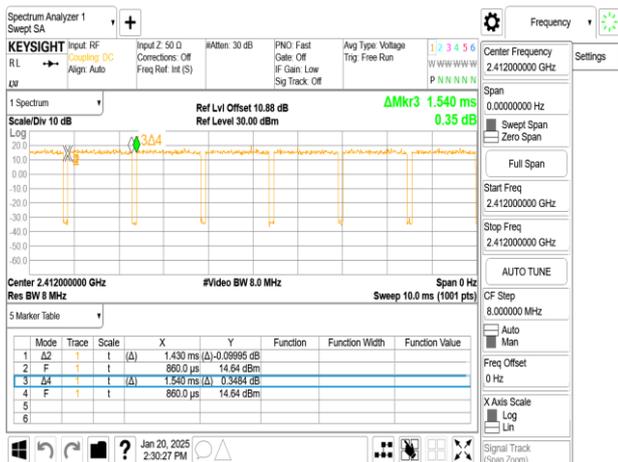
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8.4.2 Duty Cycle test plots

802.11b_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2412MHz



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8.4.3 Output Power

| 802.11b Ch1 | | | | | | | |
|-------------|-------------|-----------|---------------|------------------------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power Setting | Peak Output Power (mW) | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 72 | 111.43 | 20.47 | 30.00 | PASS |
| 6 | 2437 | 1 | 72 | 113.50 | 20.55 | 30.00 | PASS |
| 11 | 2462 | 1 | 72 | 114.02 | 20.57 | 30.00 | PASS |
| 802.11b Ch1 | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power Setting | Avg. Output Power (mW) | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 72 | 58.84 | 17.70 | 30.00 | PASS |
| 6 | 2437 | 1 | 72 | 59.52 | 17.75 | 30.00 | PASS |
| 11 | 2462 | 1 | 72 | 59.11 | 17.72 | 30.00 | PASS |

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| 802.11g Ch1 | | | | | | | |
|-------------|-------------|-----------|---------------|------------------------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power Setting | Peak Output Power (mW) | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 60 | 171.40 | 22.34 | 30.00 | PASS |
| 2 | 2417 | 6 | 70 | 266.69 | 24.26 | 30.00 | PASS |
| 3 | 2422 | 6 | 72 | 279.90 | 24.47 | 30.00 | PASS |
| 4 | 2427 | 6 | 73 | 283.14 | 24.52 | 30.00 | PASS |
| 6 | 2437 | 6 | 73 | 282.49 | 24.51 | 30.00 | PASS |
| 8 | 2447 | 6 | 73 | 289.73 | 24.62 | 30.00 | PASS |
| 9 | 2452 | 6 | 72 | 277.33 | 24.43 | 30.00 | PASS |
| 10 | 2457 | 6 | 71 | 273.53 | 24.37 | 30.00 | PASS |
| 11 | 2462 | 6 | 54 | 130.02 | 21.14 | 30.00 | PASS |
| 802.11g Ch1 | | | | | | | |
| CH | Freq. (MHz) | Data Rate | Power Setting | Avg. Output Power (mW) | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 60 | 30.00 | 14.77 | 30.00 | PASS |
| 2 | 2417 | 6 | 70 | 50.14 | 17.00 | 30.00 | PASS |
| 3 | 2422 | 6 | 72 | 58.91 | 17.70 | 30.00 | PASS |
| 4 | 2427 | 6 | 73 | 61.68 | 17.90 | 30.00 | PASS |
| 6 | 2437 | 6 | 73 | 60.70 | 17.83 | 30.00 | PASS |
| 8 | 2447 | 6 | 73 | 61.40 | 17.88 | 30.00 | PASS |
| 9 | 2452 | 6 | 72 | 54.85 | 17.39 | 30.00 | PASS |
| 10 | 2457 | 6 | 71 | 52.62 | 17.21 | 30.00 | PASS |
| 11 | 2462 | 6 | 54 | 21.05 | 13.23 | 30.00 | PASS |

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| 802.11n_HT_20M Ch1 | | | | | | | |
|--------------------|-------------|-----------|---------------|------------------------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power Setting | Peak Output Power (mW) | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 59 | 167.49 | 22.24 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 69 | 258.23 | 24.12 | 30.00 | PASS |
| 3 | 2422 | MCS0 | 70 | 264.85 | 24.23 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 73 | 281.84 | 24.50 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 73 | 284.45 | 24.54 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 73 | 276.06 | 24.41 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 70 | 266.69 | 24.26 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 68 | 247.74 | 23.94 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 50 | 102.80 | 20.12 | 30.00 | PASS |

| 802.11n_HT_20M Ch1 | | | | | | | |
|--------------------|-------------|-----------|---------------|------------------------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Power Setting | Avg. Output Power (mW) | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 59 | 27.88 | 14.45 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 69 | 46.06 | 16.63 | 30.00 | PASS |
| 3 | 2422 | MCS0 | 70 | 48.90 | 16.89 | 30.00 | PASS |
| 4 | 2427 | MCS0 | 73 | 59.60 | 17.75 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 73 | 60.29 | 17.80 | 30.00 | PASS |
| 8 | 2447 | MCS0 | 73 | 59.19 | 17.72 | 30.00 | PASS |
| 9 | 2452 | MCS0 | 70 | 49.35 | 16.93 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 68 | 43.38 | 16.37 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 50 | 17.19 | 12.35 | 30.00 | PASS |

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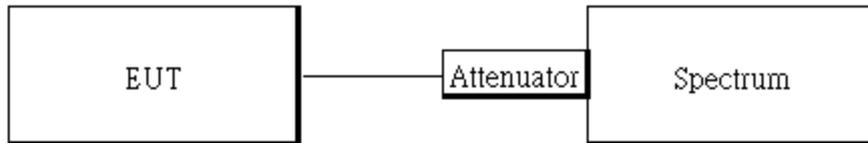
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure:

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

9.3.1 6dB BW measurements

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

9.3.2 99% BW measurements

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

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9.4 Measurement Result:

9.4.1 6dB BW measurements

802.11b Ch1

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2412 | 8138 | ≥ 500 | PASS |
| 2437 | 9078 | ≥ 500 | PASS |
| 2462 | 9060 | ≥ 500 | PASS |

802.11g Ch1

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2412 | 16440 | ≥ 500 | PASS |
| 2437 | 16420 | ≥ 500 | PASS |
| 2462 | 16430 | ≥ 500 | PASS |

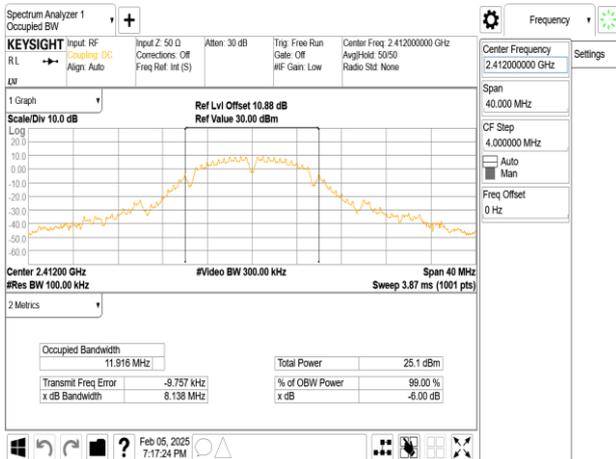
802.11n_HT_20M Ch1

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|--------------|-------------|--------|
| 2412 | 17670 | ≥ 500 | PASS |
| 2437 | 17650 | ≥ 500 | PASS |
| 2462 | 17650 | ≥ 500 | PASS |

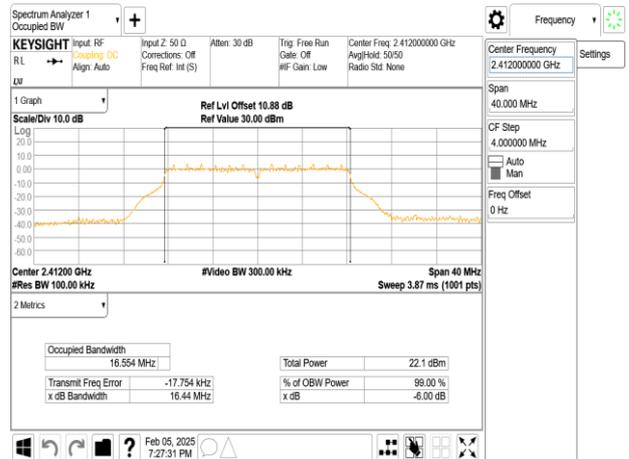
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802.11b_20MHz_Chain1_2412MHz



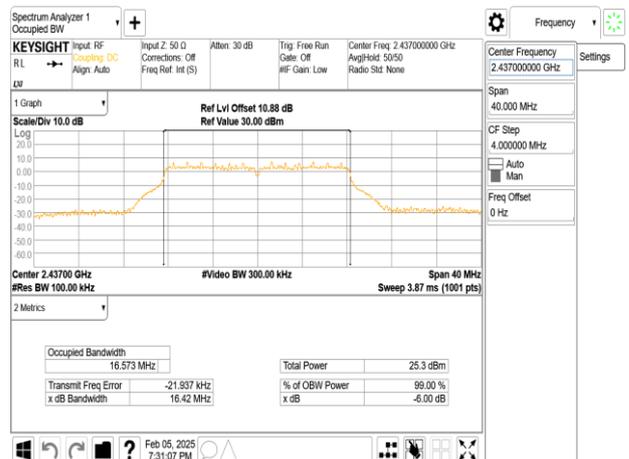
802.11g_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

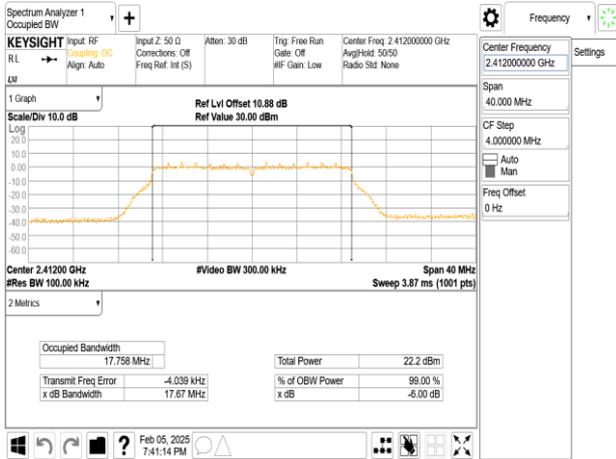


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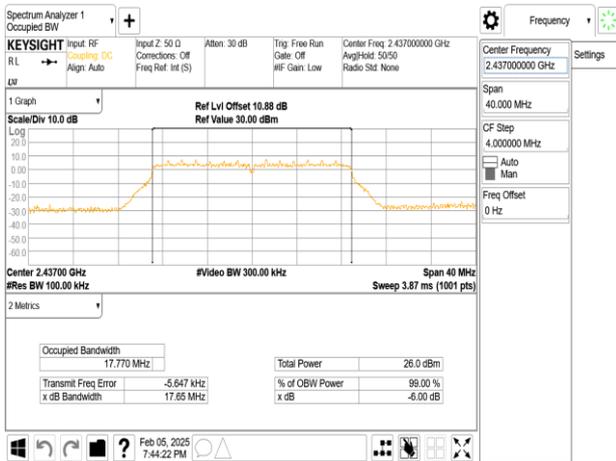
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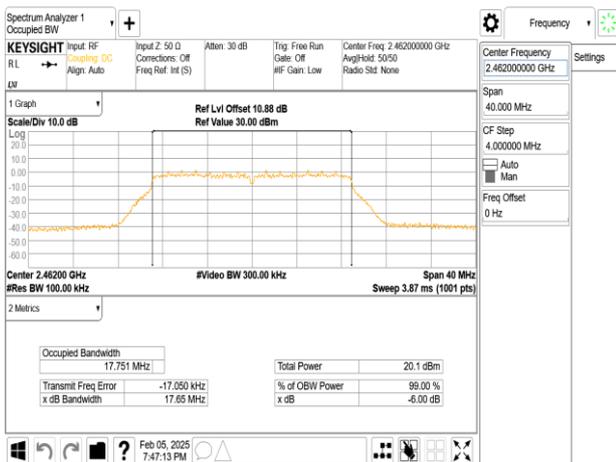
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2462MHz



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9.4.2 99% Bandwidth

802.11b Ch1

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 11.923 |
| 2437 | 11.976 |
| 2462 | 11.977 |

802.11g Ch1

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 17.169 |
| 2437 | 17.265 |
| 2462 | 17.175 |

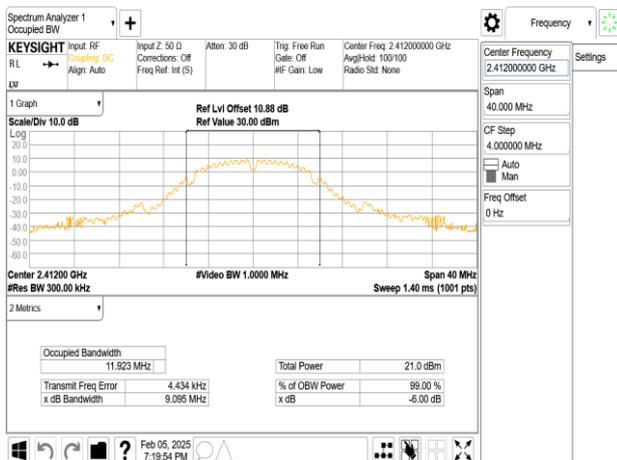
802.11n_HT20M Ch1

| Freq. (MHz) | 99% BW (MHz) |
|----------------|-----------------|
| 2412 | 18.185 |
| 2437 | 18.245 |
| 2462 | 18.219 |

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802.11b_20MHz_Chain1_2412MHz



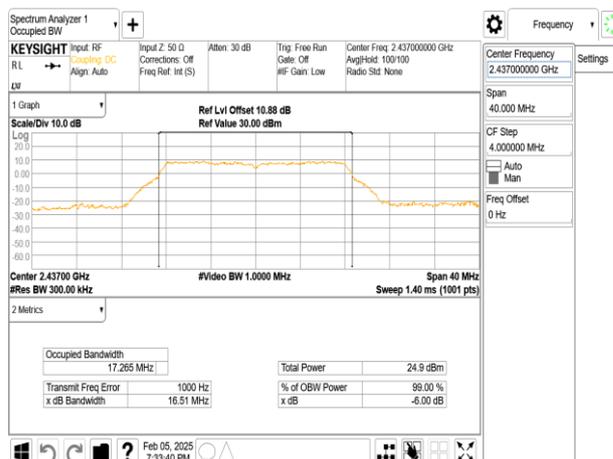
802.11g_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain1_2437MHz



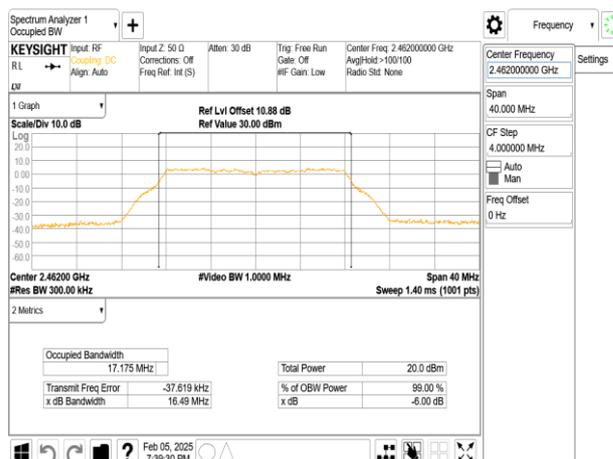
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

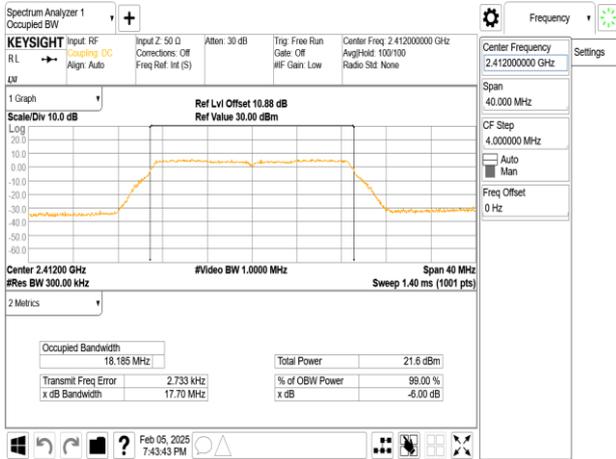


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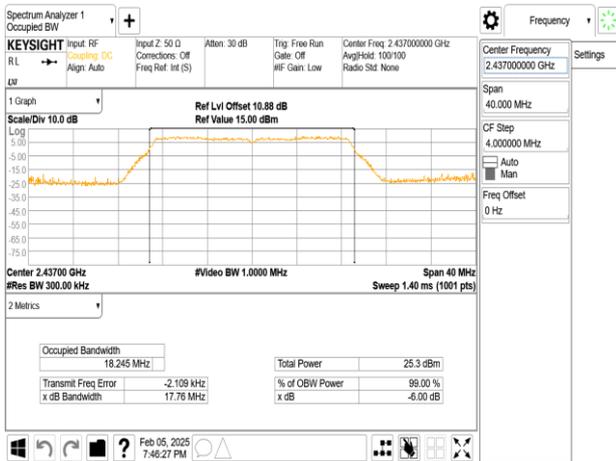
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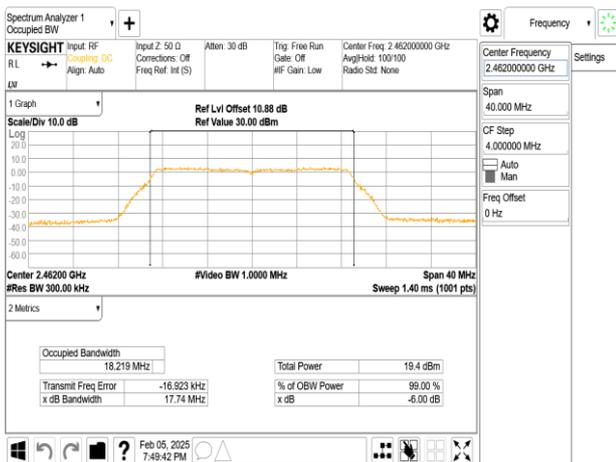
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2462MHz



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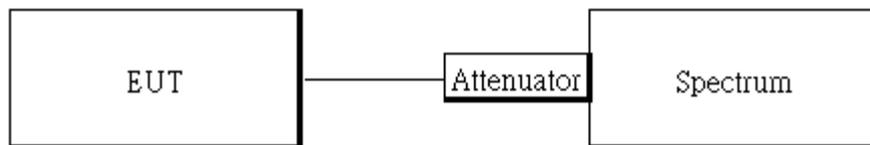
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

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

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10.3.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement -20 dBm
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.

10.3.3 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.

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10.4 Measurement Result

802.11b Ch1

| Reference Level of Limit | | |
|--------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 9.08 | -10.92 |
| 2437 | 9.32 | -10.68 |
| 2462 | 9.34 | -10.66 |

802.11g Ch1

| Reference Level of Limit | | |
|--------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 3.79 | -16.21 |
| 2437 | 7.01 | -12.99 |
| 2462 | 2.20 | -17.80 |

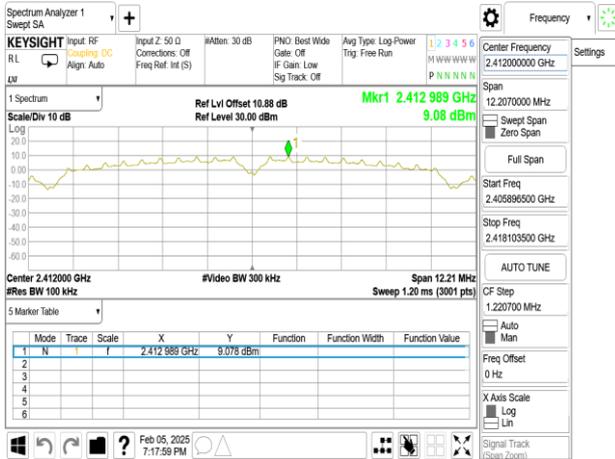
802.11n_HT_20M Ch1

| Reference Level of Limit | | |
|--------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 3.47 | -16.53 |
| 2437 | 7.29 | -12.71 |
| 2462 | 1.42 | -18.58 |

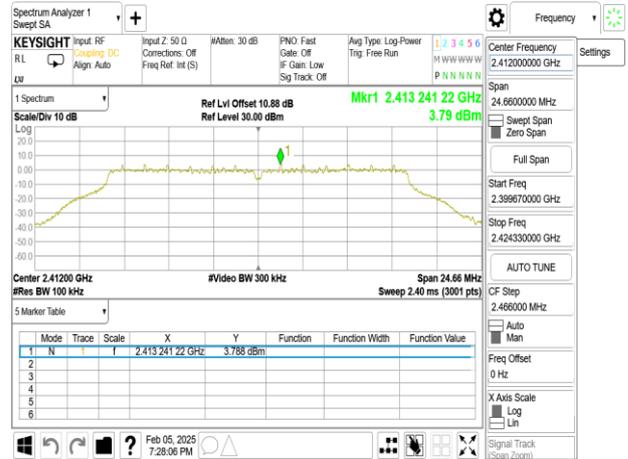
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802.11b_20MHz_Chain1_2412MHz



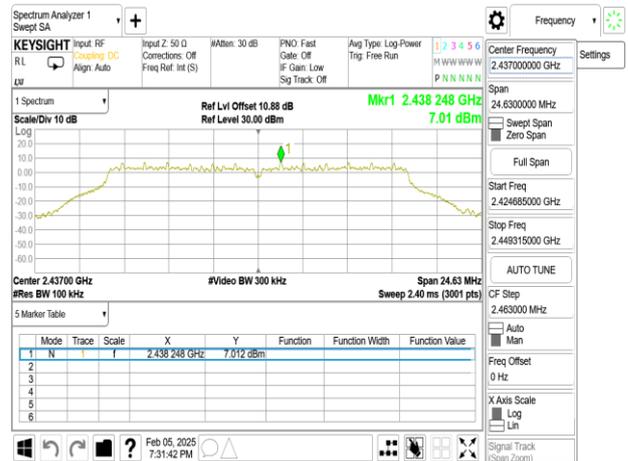
802.11g_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

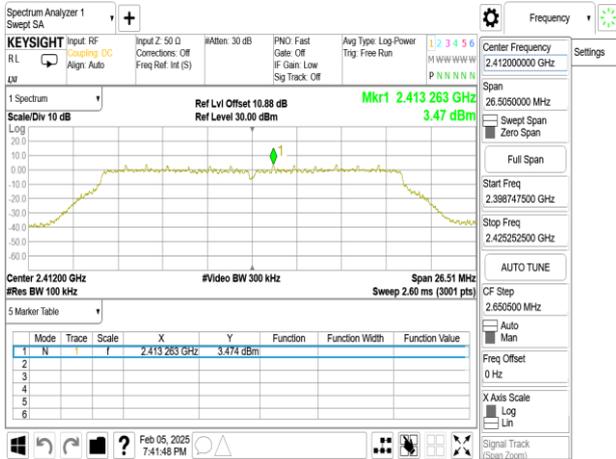


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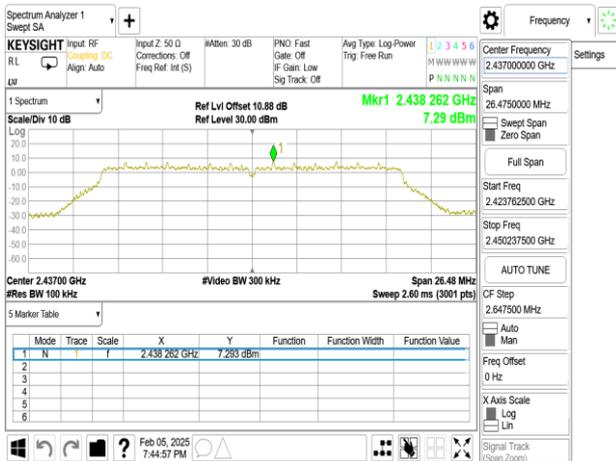
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802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2462MHz

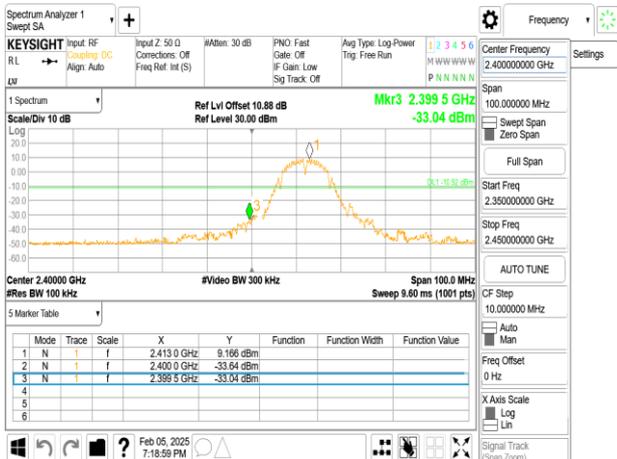


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802.11b_20MHz_Chain1_2412MHz



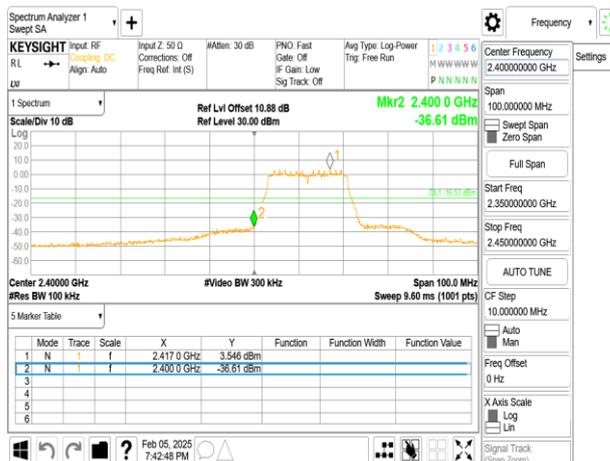
802.11g_20MHz_Chain1_2462MHz



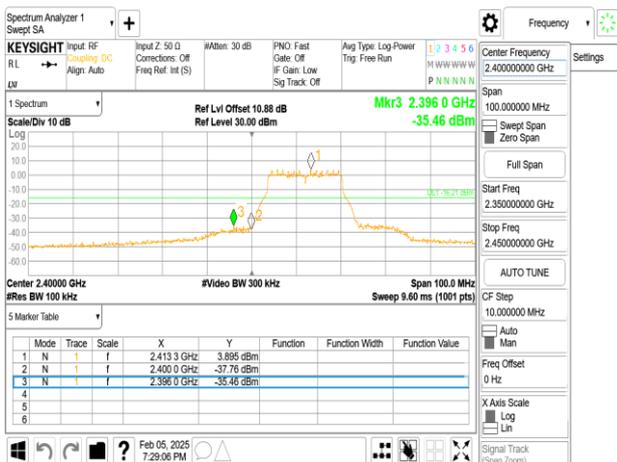
802.11b_20MHz_Chain1_2462MHz



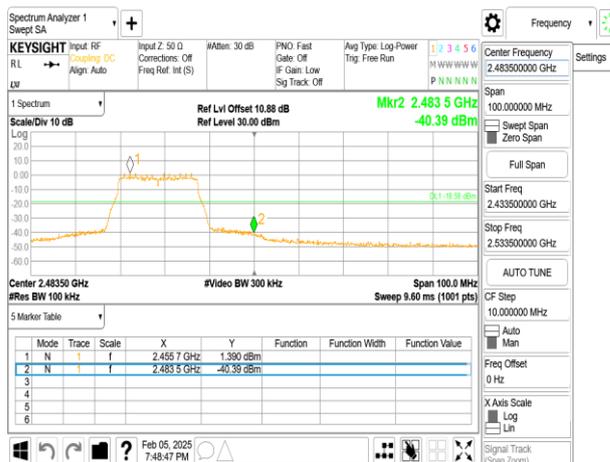
802.11n_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2462MHz

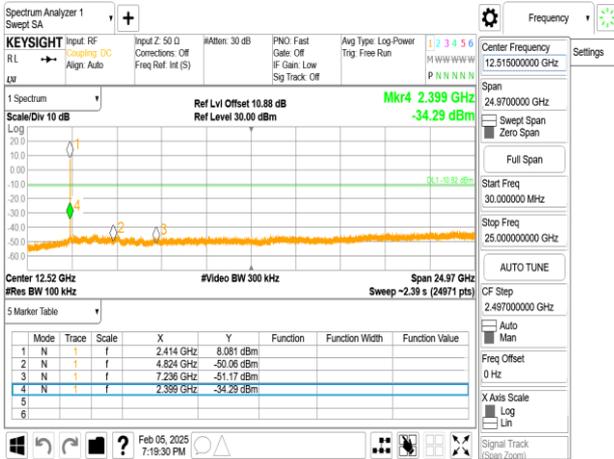


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802.11b_20MHz_Chain1_2412MHz



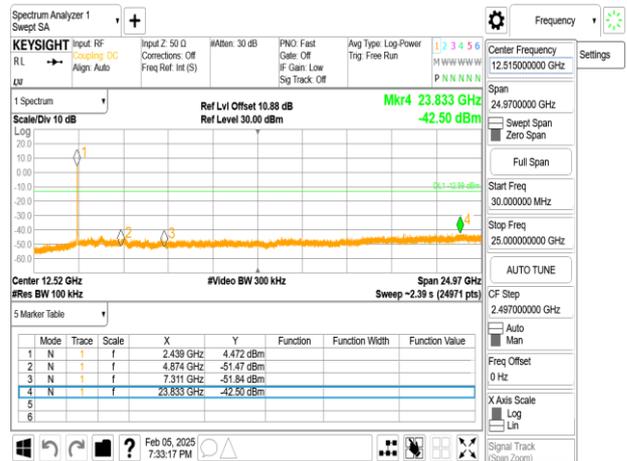
802.11g_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

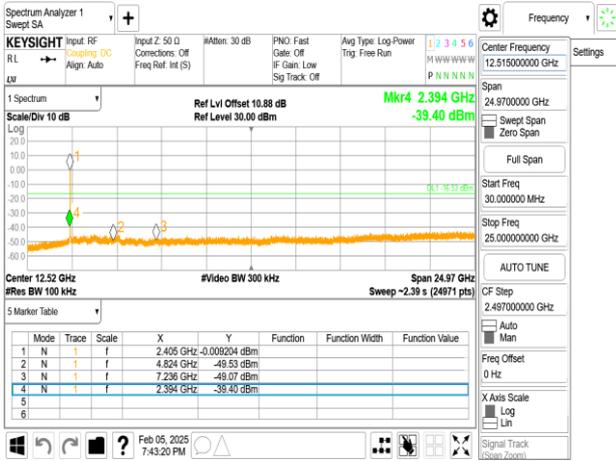


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802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2462MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 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 limit as below.

And according to §15.33(a) (1), 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.

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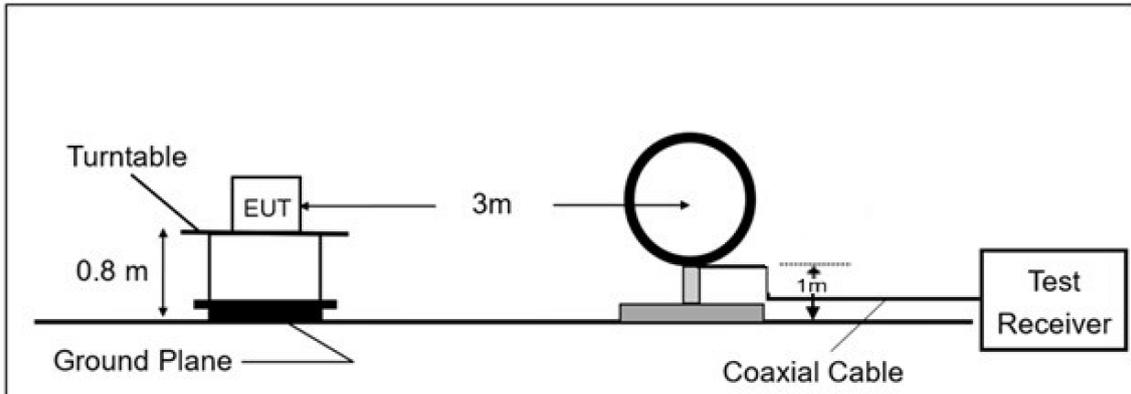
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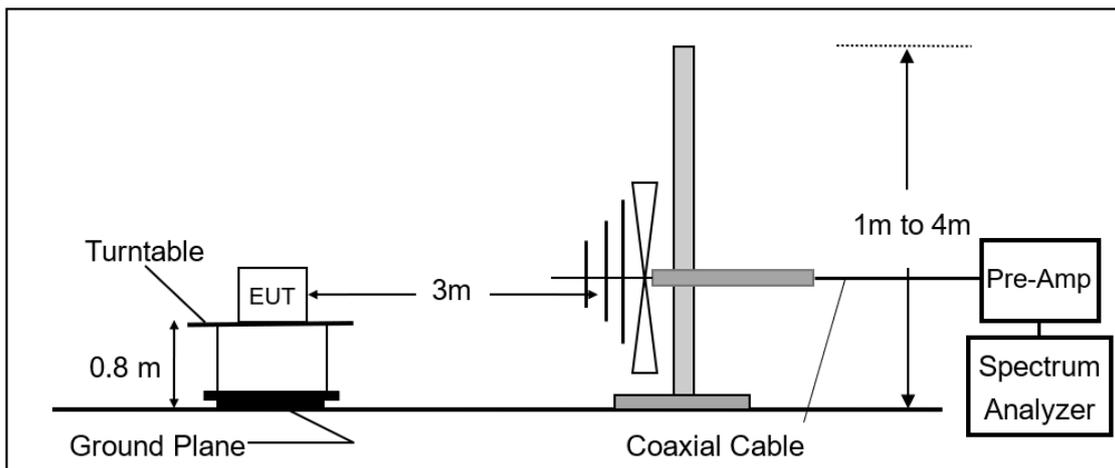
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11.2 Test Setup

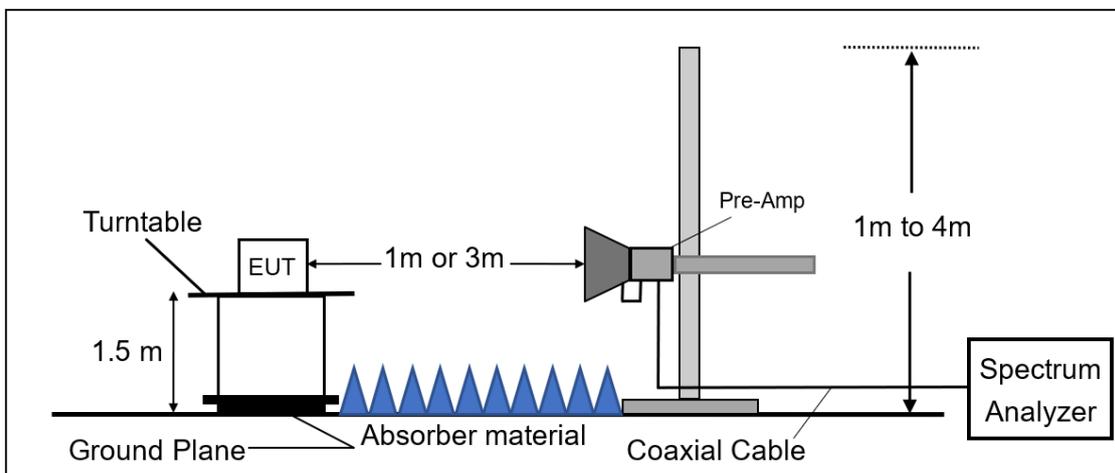
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz.
If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

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

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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

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

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

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

11.6 Measurement Result

Note:

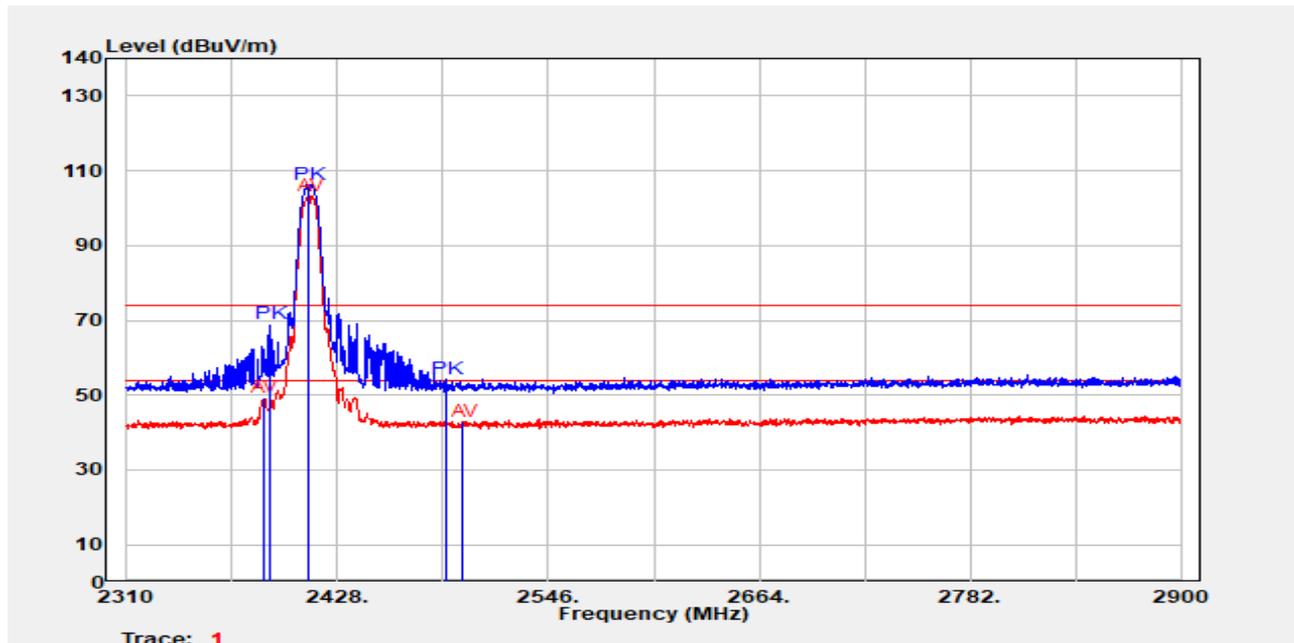
1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands*

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11.6.1 Radiated Band Edge Measurement Result

| | | | |
|----------------|-------------------|--------------|-------------|
| Report Number | :TERF2501000383ER | Test Site | :SAC 2 |
| Operation Mode | :802.11b | Test Date | :2025-01-21 |
| Test Frequency | :2412 MHz | Temp./Humi. | :25.1°C/39% |
| Test Mode | :Bandedge | Antenna Pol. | :Vertical |
| EUT Pol | :E2 Plane | Engineer | :Bob Chao |



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2386.53 | Average | 53.80 | -4.60 | 49.20 | 54.00 | -4.80 |
| 2389.68 | Peak | 73.62 | -4.60 | 69.02 | 74.00 | -4.98 |
| 2412.00 | Peak | 110.96 | -4.70 | 106.26 | - | - |
| 2412.00 | Average | 107.81 | -4.70 | 103.11 | - | - |
| 2489.22 | Peak | 59.08 | -4.86 | 54.22 | 74.00 | -19.78 |
| 2498.08 | Average | 47.74 | -4.78 | 42.96 | 54.00 | -11.04 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

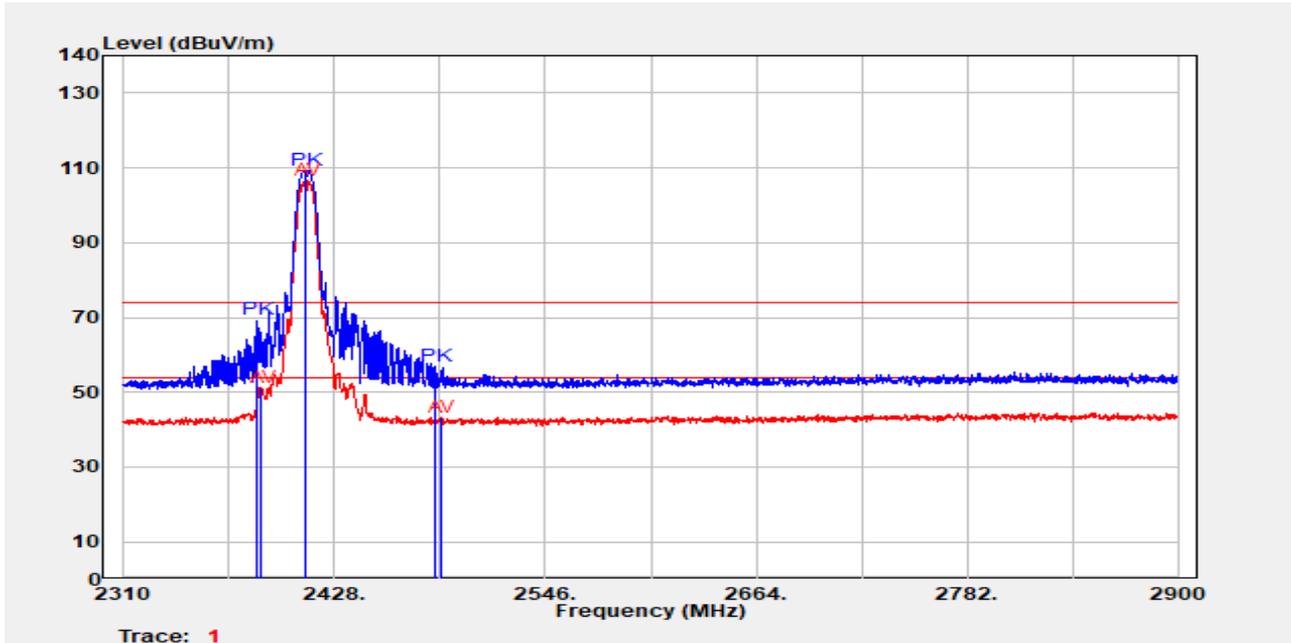
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2384.56 | Peak | 74.22 | -4.60 | 69.62 | 74.00 | -4.38 |
| 2386.92 | Average | 55.98 | -4.60 | 51.38 | 54.00 | -2.62 |
| 2412.00 | Peak | 114.12 | -4.70 | 109.42 | - | - |
| 2412.00 | Average | 111.25 | -4.70 | 106.55 | - | - |
| 2483.72 | Peak | 61.65 | -4.87 | 56.78 | 74.00 | -17.22 |
| 2487.06 | Average | 48.09 | -4.87 | 43.22 | 54.00 | -10.78 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

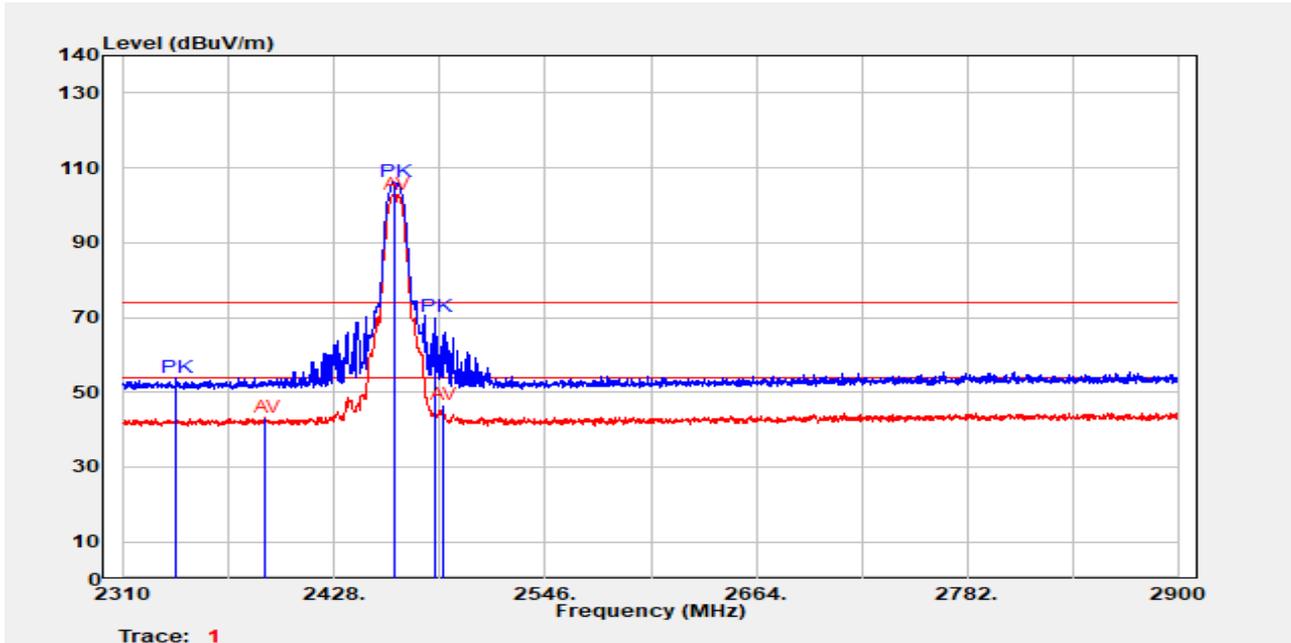
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2339.31 | Peak | 58.63 | -4.69 | 53.94 | 74.00 | -20.06 |
| 2389.28 | Average | 47.66 | -4.60 | 43.06 | 54.00 | -10.94 |
| 2462.00 | Peak | 111.07 | -4.88 | 106.19 | - | - |
| 2462.00 | Average | 107.76 | -4.88 | 102.88 | - | - |
| 2483.91 | Peak | 75.04 | -4.87 | 70.17 | 74.00 | -3.83 |
| 2488.24 | Average | 51.66 | -4.86 | 46.80 | 54.00 | -7.20 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

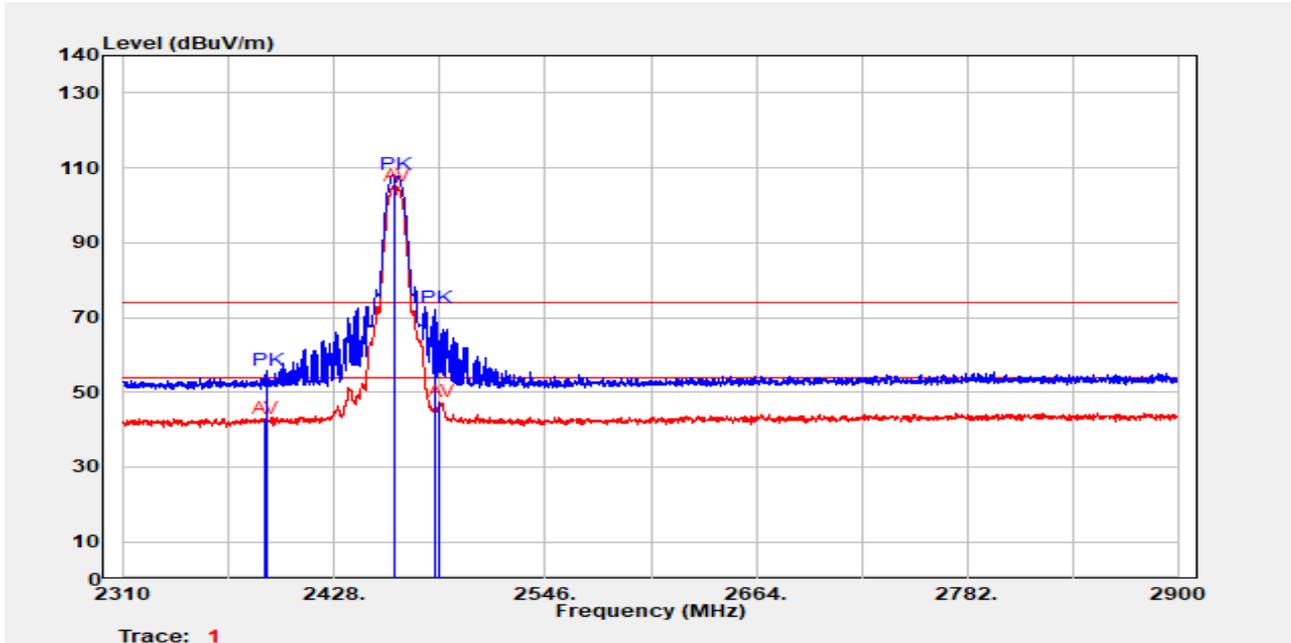
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2388.89 | Average | 47.57 | -4.60 | 42.97 | 54.00 | -11.03 |
| 2389.68 | Peak | 60.29 | -4.60 | 55.69 | 74.00 | -18.31 |
| 2462.00 | Peak | 113.11 | -4.88 | 108.23 | - | - |
| 2462.00 | Average | 110.05 | -4.88 | 105.17 | - | - |
| 2483.72 | Peak | 77.31 | -4.87 | 72.44 | 74.00 | -1.56 |
| 2486.67 | Average | 52.38 | -4.87 | 47.51 | 54.00 | -6.49 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

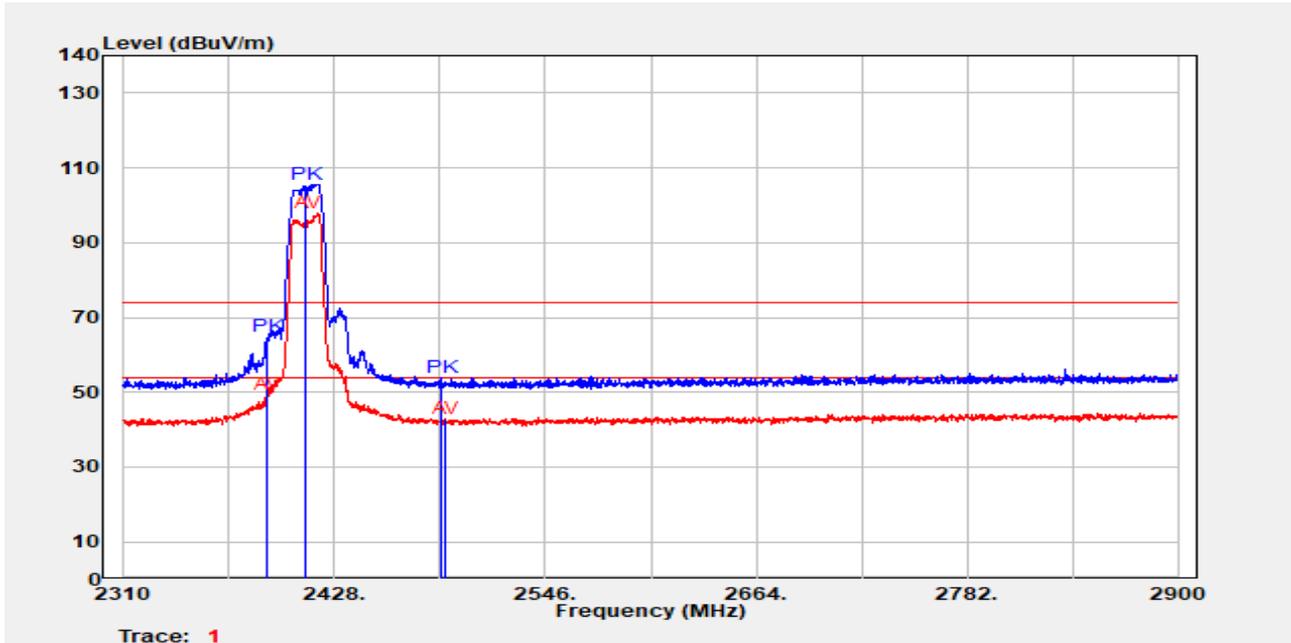
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2389.87 | Peak | 69.50 | -4.60 | 64.90 | 74.00 | -9.10 |
| 2389.87 | Average | 53.98 | -4.60 | 49.38 | 54.00 | -4.62 |
| 2412.00 | Peak | 110.27 | -4.70 | 105.57 | - | - |
| 2412.00 | Average | 102.72 | -4.70 | 98.02 | - | - |
| 2487.26 | Peak | 58.60 | -4.87 | 53.73 | 74.00 | -20.27 |
| 2490.01 | Average | 47.91 | -4.86 | 43.05 | 54.00 | -10.95 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

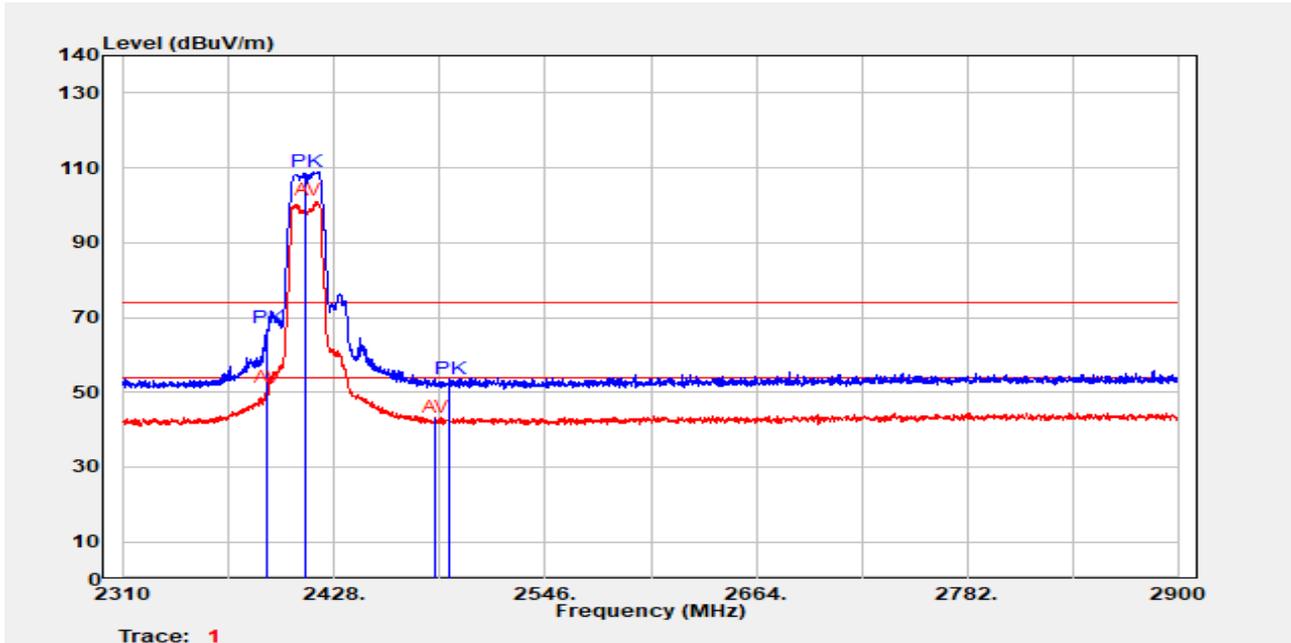
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2389.87 | Peak | 71.93 | -4.60 | 67.33 | 74.00 | -6.67 |
| 2389.87 | Average | 56.00 | -4.60 | 51.40 | 54.00 | -2.60 |
| 2412.00 | Peak | 113.52 | -4.70 | 108.82 | - | - |
| 2412.00 | Average | 105.92 | -4.70 | 101.22 | - | - |
| 2484.11 | Average | 48.27 | -4.87 | 43.40 | 54.00 | -10.60 |
| 2491.78 | Peak | 58.49 | -4.84 | 53.65 | 74.00 | -20.35 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

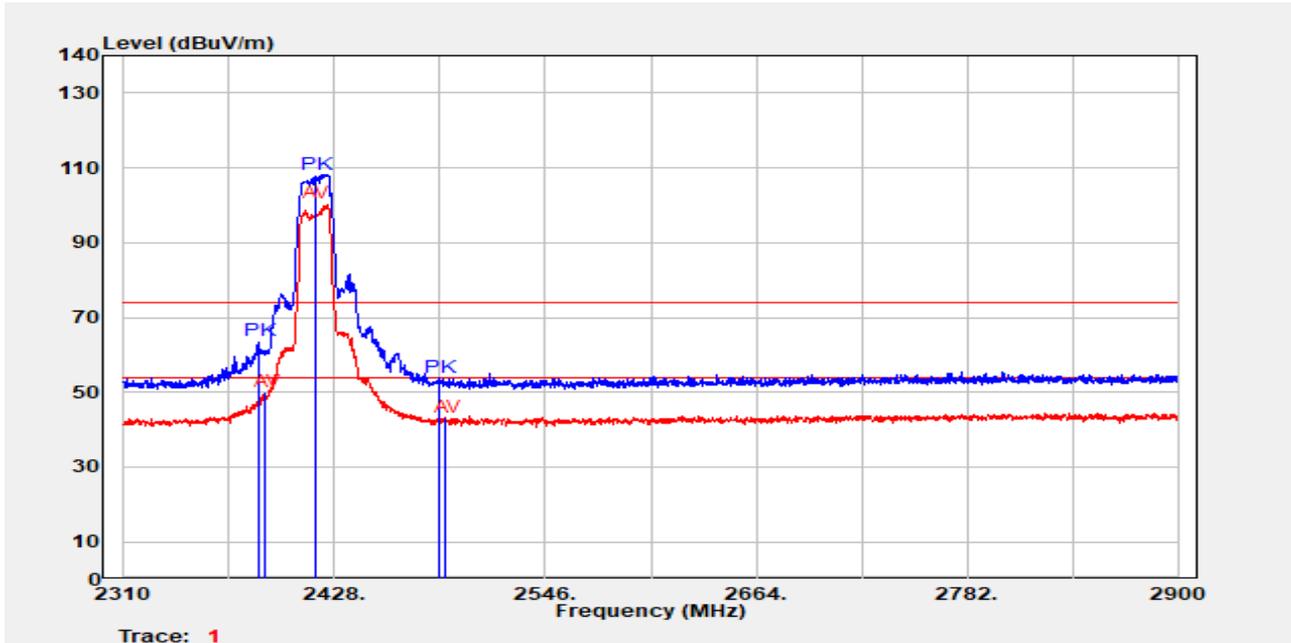
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2385.15 | Peak | 68.25 | -4.59 | 63.66 | 74.00 | -10.34 |
| 2389.48 | Average | 54.75 | -4.60 | 50.15 | 54.00 | -3.85 |
| 2417.00 | Peak | 112.93 | -4.69 | 108.24 | - | - |
| 2417.00 | Average | 105.07 | -4.69 | 100.38 | - | - |
| 2486.67 | Peak | 58.76 | -4.87 | 53.89 | 74.00 | -20.11 |
| 2490.40 | Average | 48.28 | -4.86 | 43.42 | 54.00 | -10.58 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

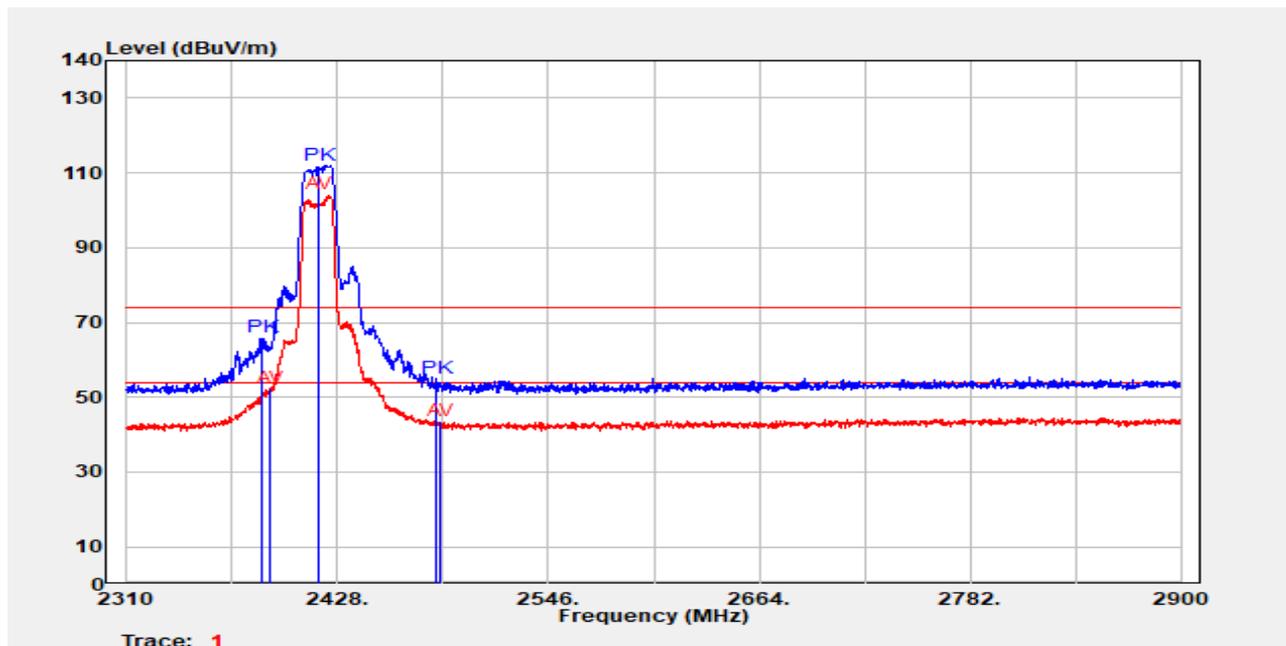
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2385.94 | Peak | 70.62 | -4.59 | 66.03 | 74.00 | -7.97 |
| 2389.68 | Average | 57.05 | -4.60 | 52.45 | 54.00 | -1.55 |
| 2417.00 | Peak | 116.50 | -4.69 | 111.81 | - | - |
| 2417.00 | Average | 109.08 | -4.69 | 104.39 | - | - |
| 2483.50 | Peak | 59.72 | -4.87 | 54.85 | 74.00 | -19.15 |
| 2485.49 | Average | 48.40 | -4.87 | 43.53 | 54.00 | -10.47 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

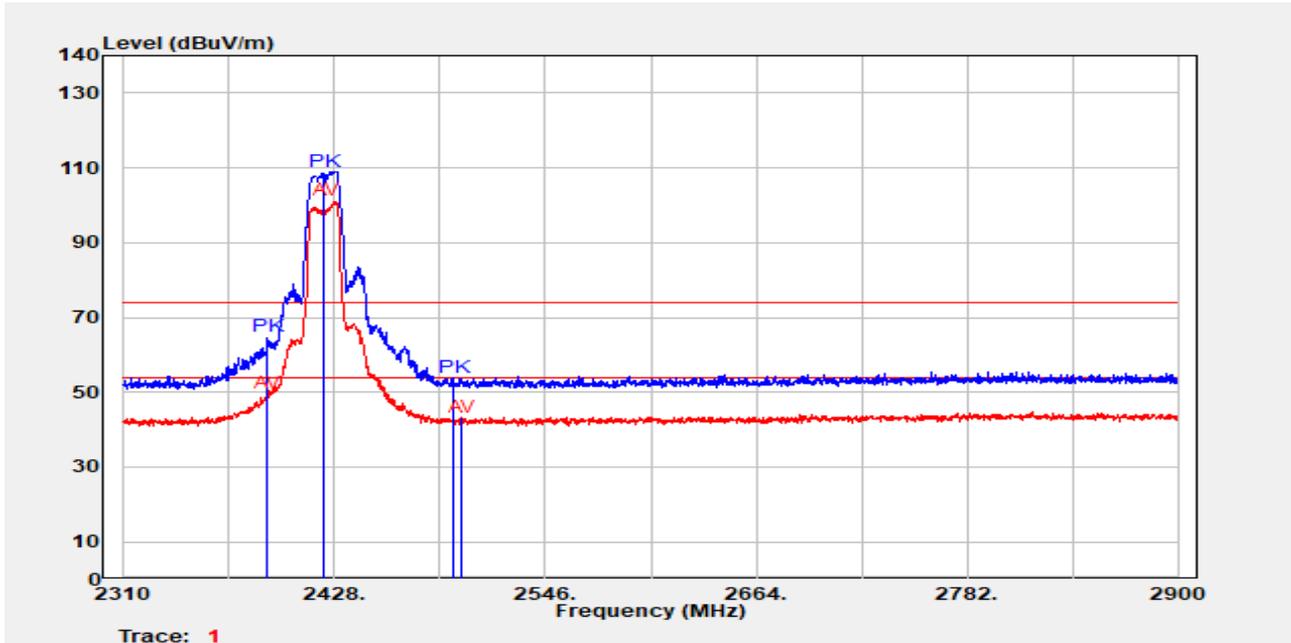
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2389.87 | Peak | 69.56 | -4.60 | 64.96 | 74.00 | -9.04 |
| 2389.87 | Average | 54.46 | -4.60 | 49.86 | 54.00 | -4.14 |
| 2422.00 | Peak | 113.64 | -4.69 | 108.95 | - | - |
| 2422.00 | Average | 105.98 | -4.69 | 101.29 | - | - |
| 2494.54 | Peak | 58.78 | -4.82 | 53.96 | 74.00 | -20.04 |
| 2499.06 | Average | 48.17 | -4.77 | 43.40 | 54.00 | -10.60 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

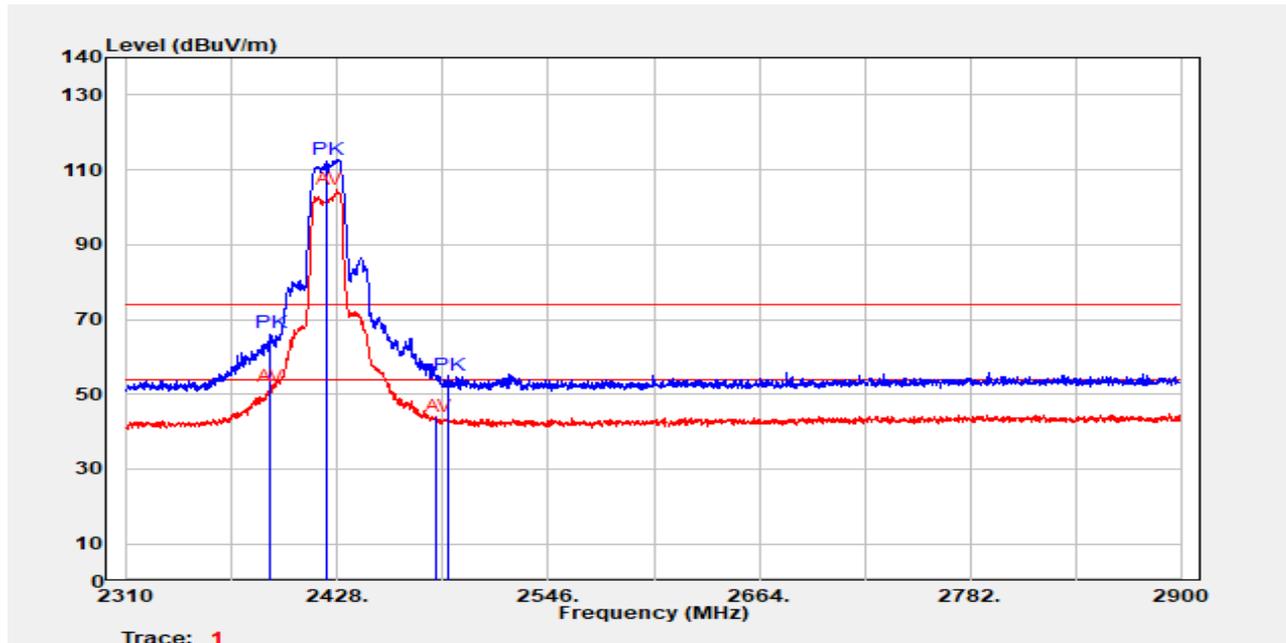
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2389.87 | Peak | 71.04 | -4.60 | 66.44 | 74.00 | -7.56 |
| 2389.87 | Average | 56.44 | -4.60 | 51.84 | 54.00 | -2.16 |
| 2422.00 | Peak | 117.41 | -4.69 | 112.72 | - | - |
| 2422.00 | Average | 109.56 | -4.69 | 104.87 | - | - |
| 2483.50 | Average | 48.85 | -4.87 | 43.98 | 54.00 | -10.02 |
| 2490.21 | Peak | 59.78 | -4.86 | 54.92 | 74.00 | -19.08 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

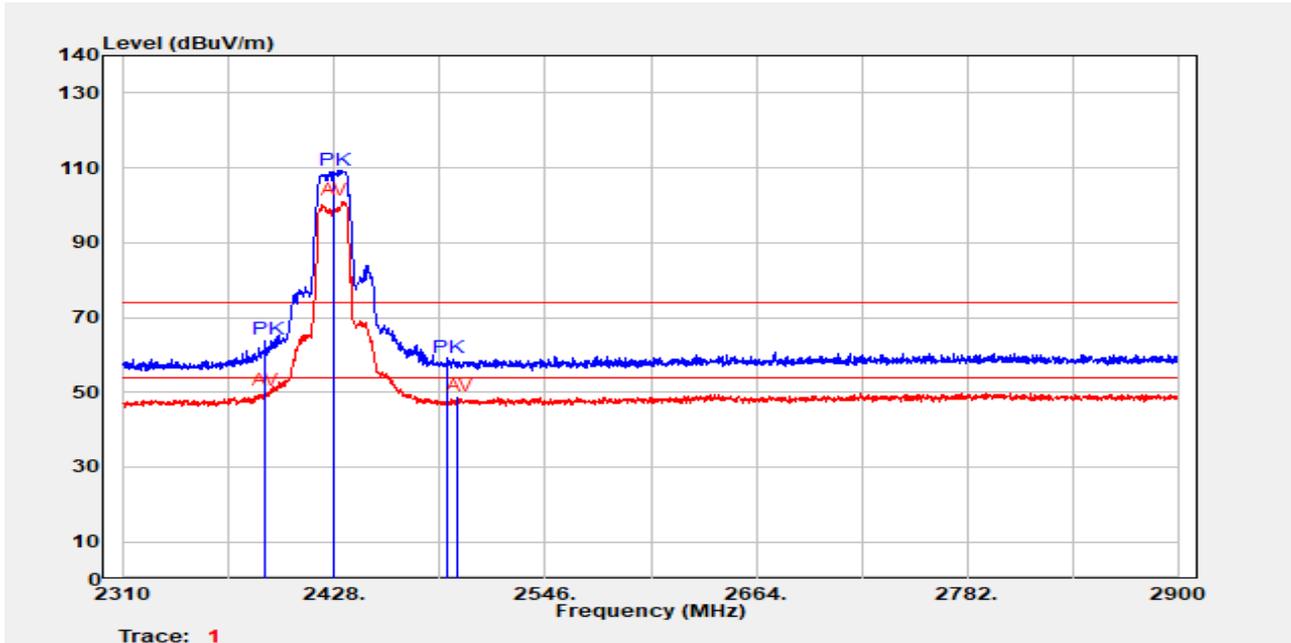
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2388.89 | Average | 54.98 | -4.60 | 50.38 | 54.00 | -3.62 |
| 2389.48 | Peak | 68.87 | -4.60 | 64.27 | 74.00 | -9.73 |
| 2427.00 | Peak | 113.83 | -4.69 | 109.14 | - | - |
| 2427.00 | Average | 106.10 | -4.69 | 101.41 | - | - |
| 2490.80 | Peak | 63.92 | -4.85 | 59.07 | 74.00 | -14.93 |
| 2496.90 | Average | 53.57 | -4.79 | 48.78 | 54.00 | -5.22 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

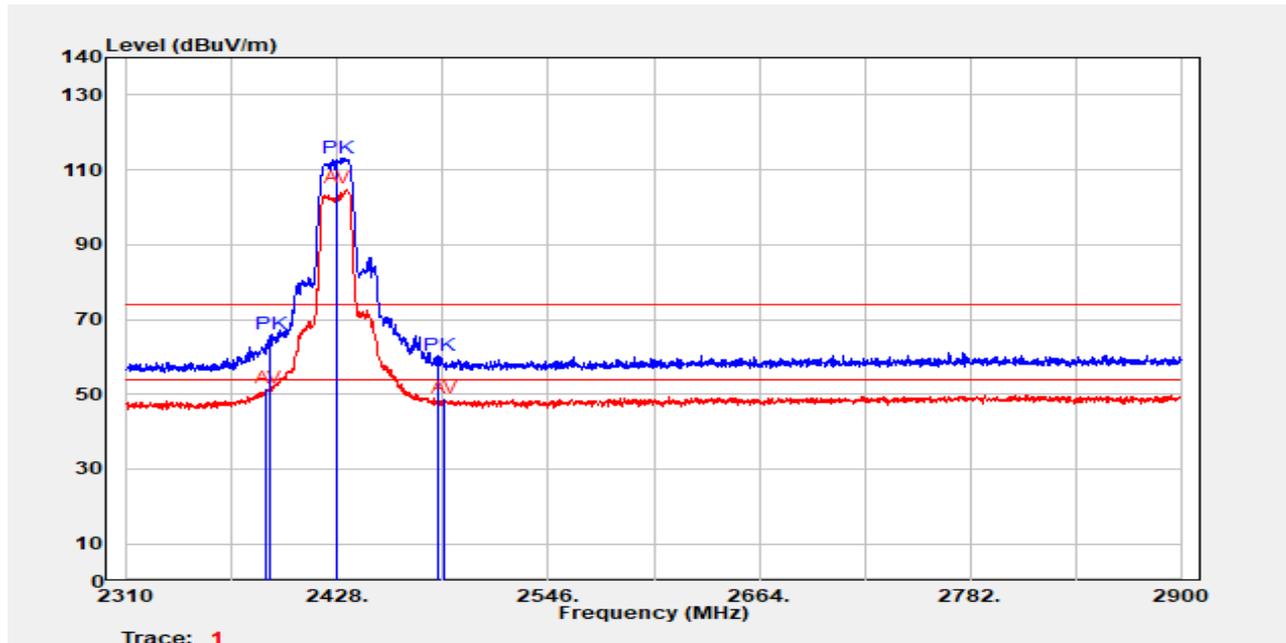
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2388.30 | Average | 56.17 | -4.60 | 51.57 | 54.00 | -2.43 |
| 2389.68 | Peak | 70.71 | -4.60 | 66.11 | 74.00 | -7.89 |
| 2427.00 | Peak | 117.62 | -4.69 | 112.93 | - | - |
| 2427.00 | Average | 109.74 | -4.69 | 105.05 | - | - |
| 2483.72 | Peak | 65.18 | -4.87 | 60.31 | 74.00 | -13.69 |
| 2487.06 | Average | 53.65 | -4.87 | 48.78 | 54.00 | -5.22 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

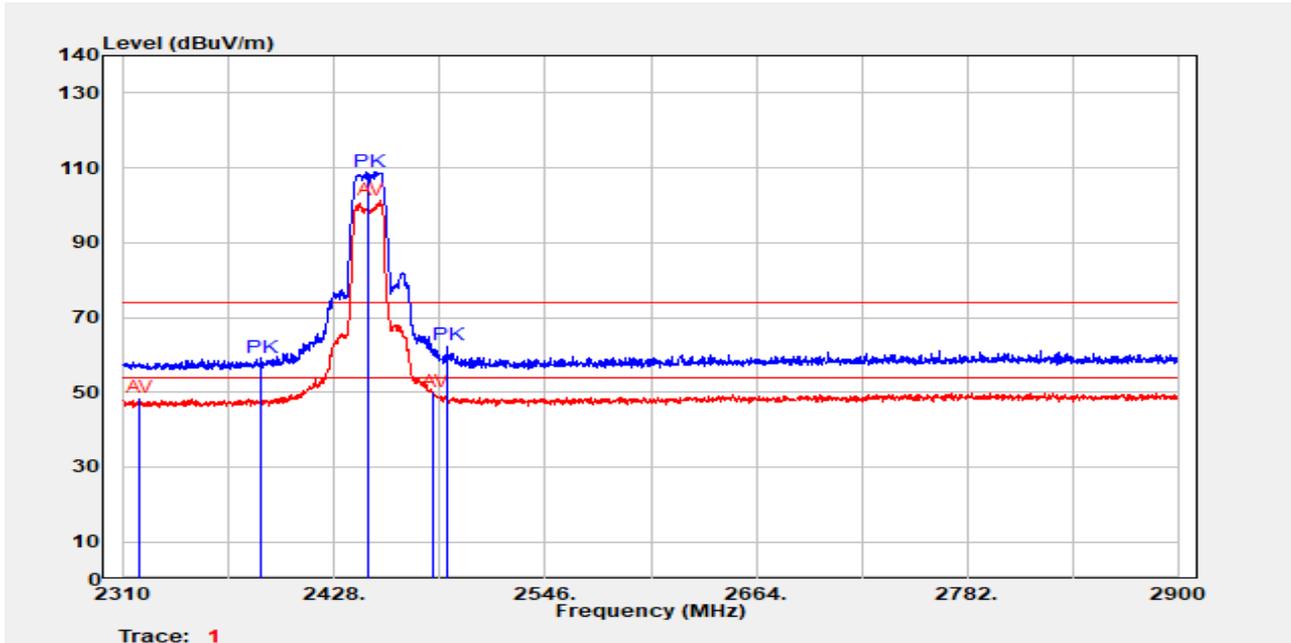
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2318.26 | Average | 53.08 | -4.67 | 48.41 | 54.00 | -5.59 |
| 2386.33 | Peak | 63.73 | -4.59 | 59.14 | 74.00 | -14.86 |
| 2447.00 | Peak | 113.71 | -4.85 | 108.86 | - | - |
| 2447.00 | Average | 106.33 | -4.85 | 101.48 | - | - |
| 2483.50 | Average | 54.92 | -4.87 | 50.05 | 54.00 | -3.95 |
| 2490.99 | Peak | 67.40 | -4.85 | 62.55 | 74.00 | -11.45 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

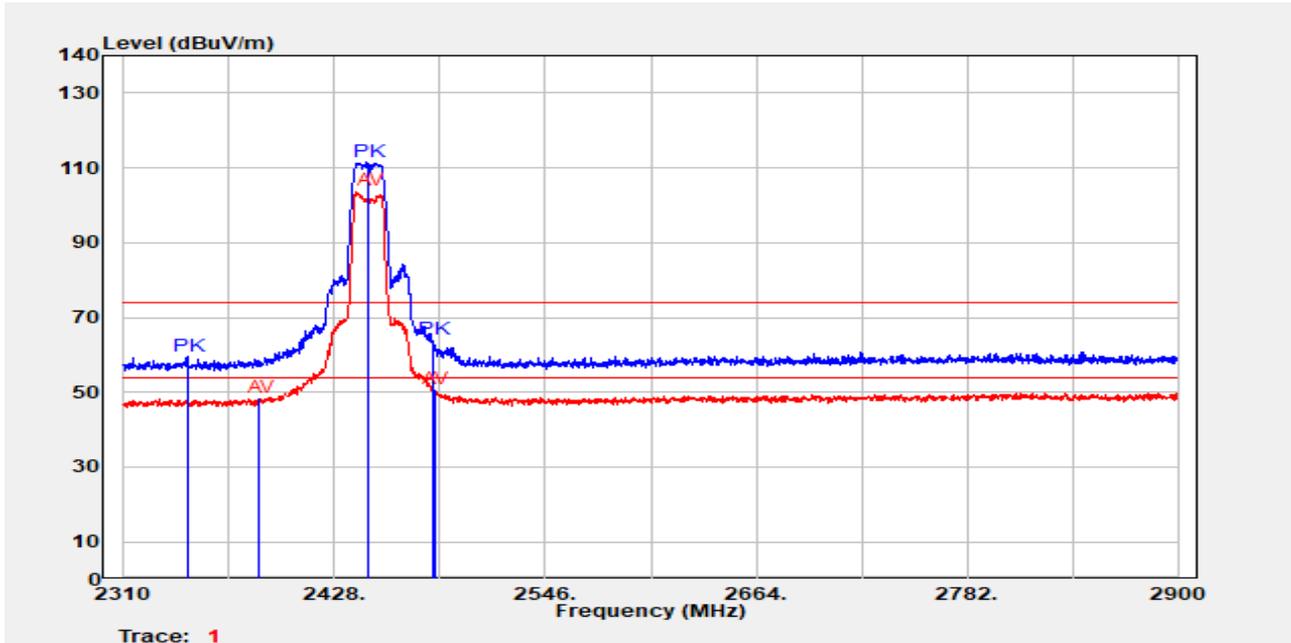
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2345.41 | Peak | 64.21 | -4.69 | 59.52 | 74.00 | -14.48 |
| 2385.94 | Average | 53.20 | -4.59 | 48.61 | 54.00 | -5.39 |
| 2447.00 | Peak | 116.38 | -4.85 | 111.53 | - | - |
| 2447.00 | Average | 108.85 | -4.85 | 104.00 | - | - |
| 2483.50 | Peak | 68.94 | -4.87 | 64.07 | 74.00 | -9.93 |
| 2484.11 | Average | 55.85 | -4.87 | 50.98 | 54.00 | -3.02 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

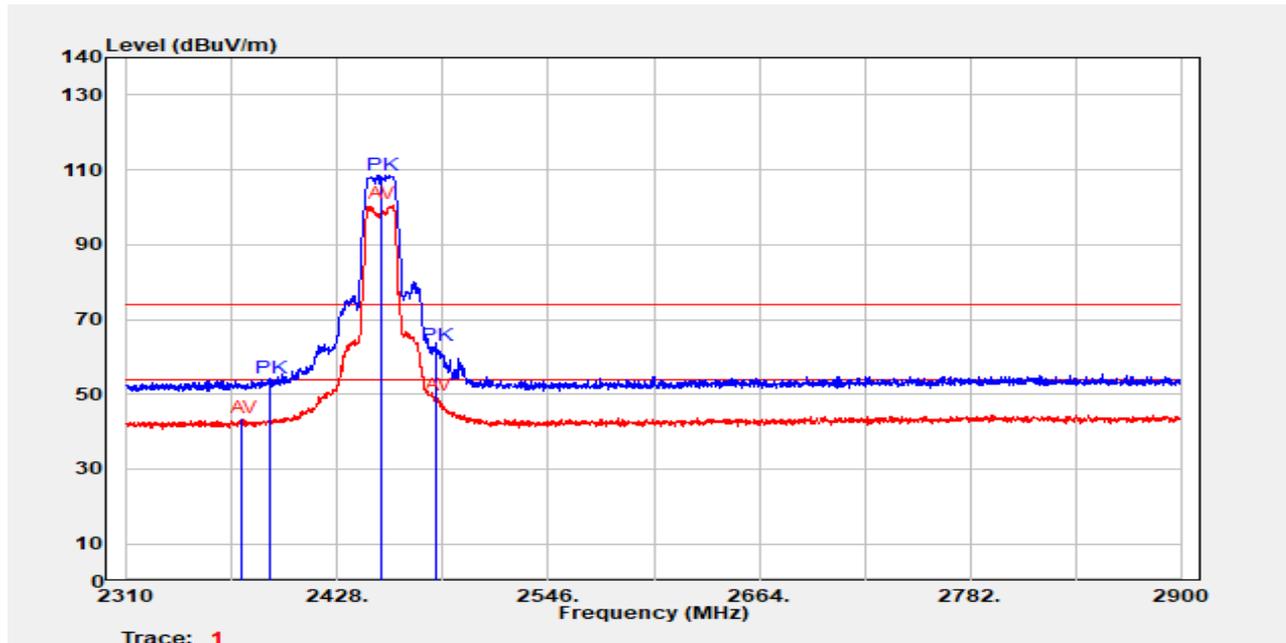
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2374.73 | Average | 48.15 | -4.65 | 43.50 | 54.00 | -10.50 |
| 2389.68 | Peak | 58.68 | -4.60 | 54.08 | 74.00 | -19.92 |
| 2452.00 | Peak | 113.32 | -4.88 | 108.44 | - | - |
| 2452.00 | Average | 105.74 | -4.88 | 100.86 | - | - |
| 2483.50 | Peak | 68.02 | -4.87 | 63.15 | 74.00 | -10.85 |
| 2483.50 | Average | 54.56 | -4.87 | 49.69 | 54.00 | -4.31 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

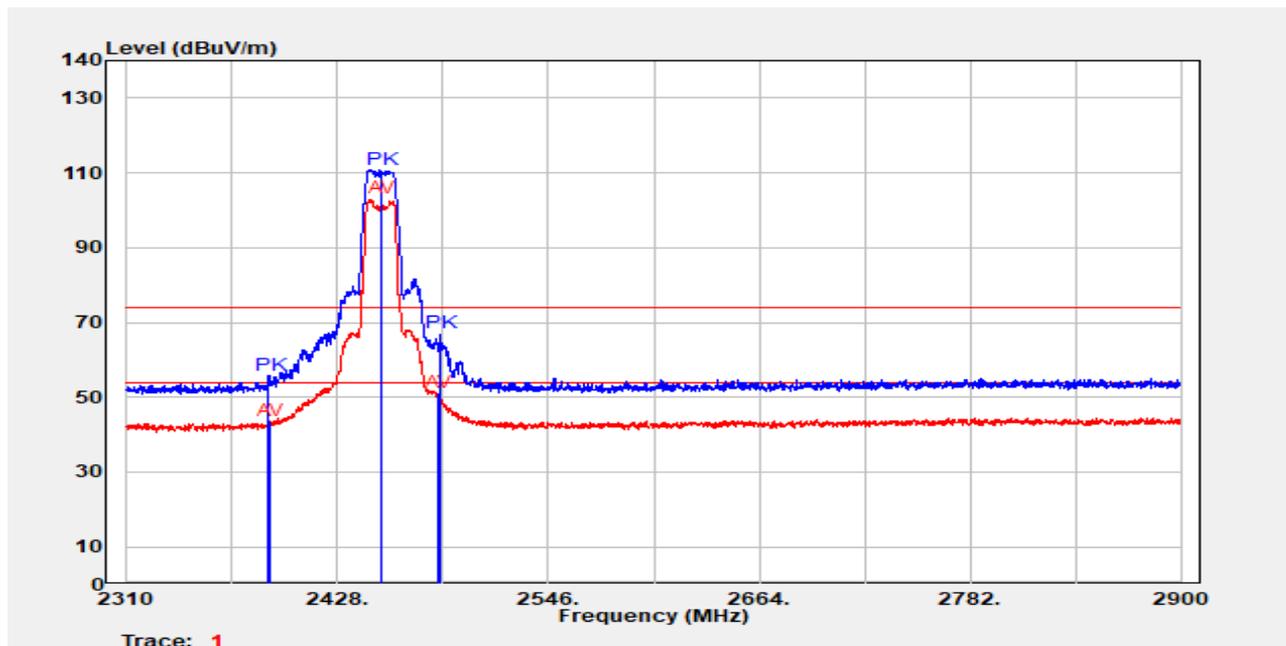
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2389.48 | Peak | 60.35 | -4.60 | 55.75 | 74.00 | -18.25 |
| 2389.87 | Average | 48.17 | -4.60 | 43.57 | 54.00 | -10.43 |
| 2452.00 | Peak | 115.81 | -4.88 | 110.93 | - | - |
| 2452.00 | Average | 108.14 | -4.88 | 103.26 | - | - |
| 2483.72 | Average | 56.16 | -4.87 | 51.29 | 54.00 | -2.71 |
| 2485.68 | Peak | 72.01 | -4.87 | 67.14 | 74.00 | -6.86 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

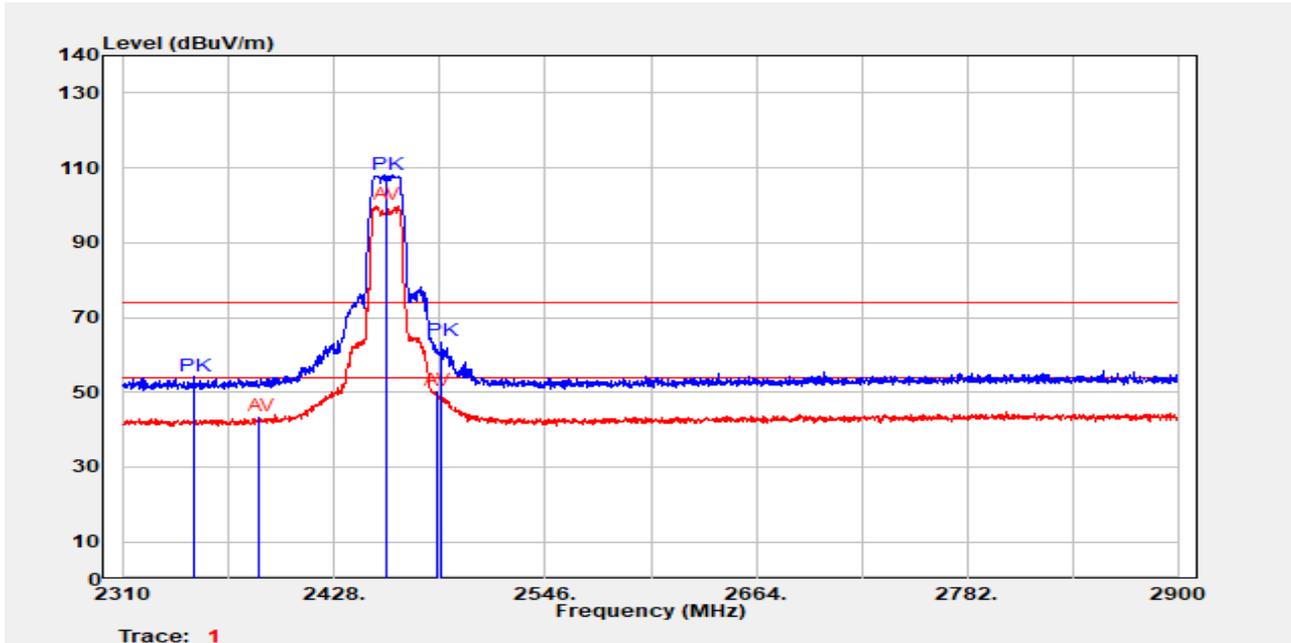
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2349.54 | Peak | 59.06 | -4.69 | 54.37 | 74.00 | -19.63 |
| 2385.94 | Average | 48.03 | -4.59 | 43.44 | 54.00 | -10.56 |
| 2457.00 | Peak | 112.97 | -4.88 | 108.09 | - | - |
| 2457.00 | Average | 105.10 | -4.88 | 100.22 | - | - |
| 2485.09 | Average | 55.37 | -4.87 | 50.50 | 54.00 | -3.50 |
| 2487.45 | Peak | 68.47 | -4.87 | 63.60 | 74.00 | -10.40 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

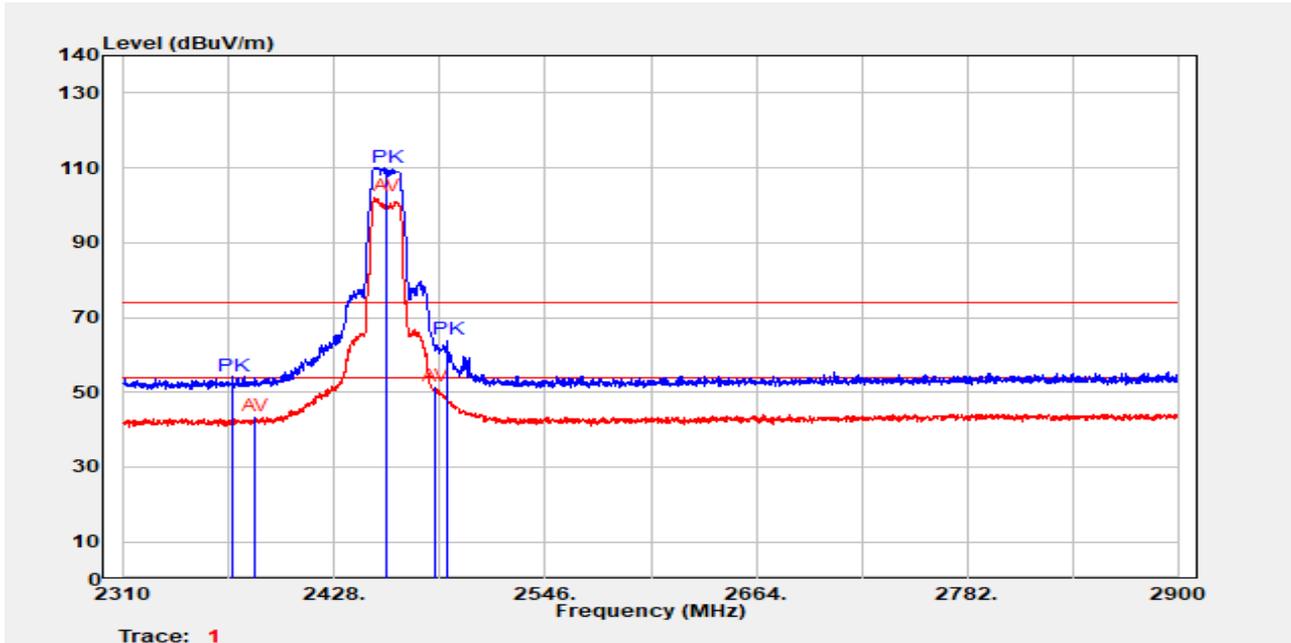
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 2370.79 | Peak | 58.84 | -4.69 | 54.15 | 74.00 | -19.85 |
| 2383.18 | Average | 48.16 | -4.60 | 43.56 | 54.00 | -10.44 |
| 2457.00 | Peak | 114.94 | -4.88 | 110.06 | - | - |
| 2457.00 | Average | 107.23 | -4.88 | 102.35 | - | - |
| 2483.91 | Average | 56.46 | -4.87 | 51.59 | 54.00 | -2.41 |
| 2490.80 | Peak | 68.98 | -4.85 | 64.13 | 74.00 | -9.87 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

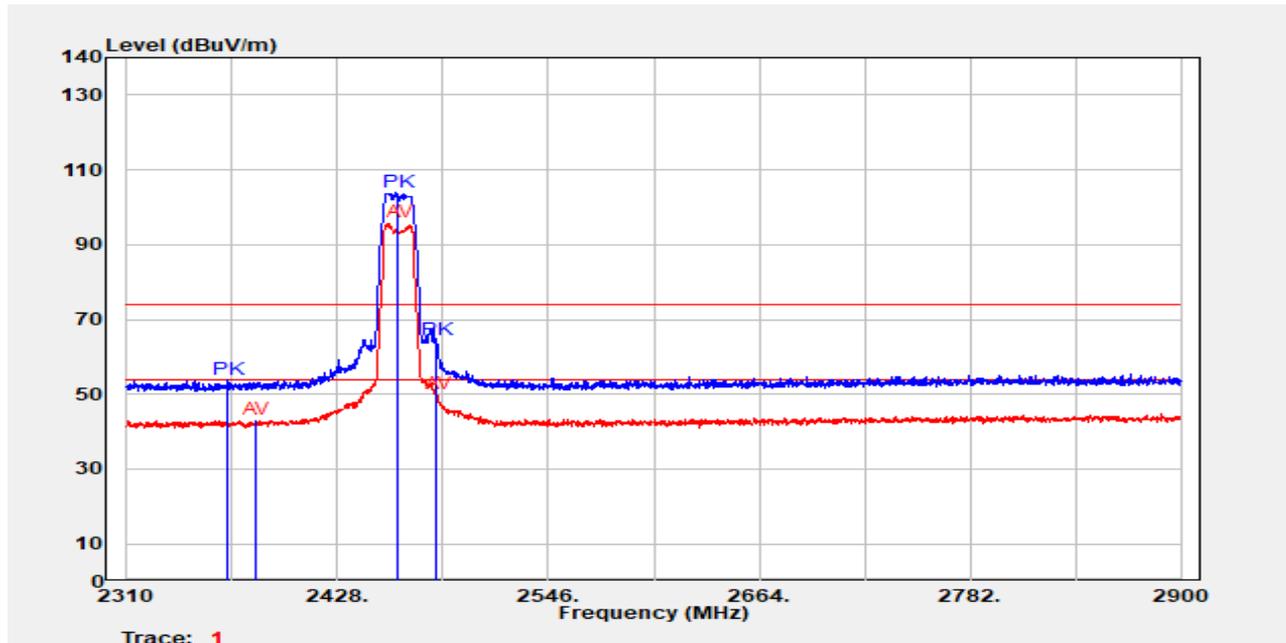
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2366.07 | Peak | 58.48 | -4.69 | 53.79 | 74.00 | -20.21 |
| 2381.81 | Average | 47.84 | -4.60 | 43.24 | 54.00 | -10.76 |
| 2462.00 | Peak | 108.79 | -4.88 | 103.91 | - | - |
| 2462.00 | Average | 100.91 | -4.88 | 96.03 | - | - |
| 2483.50 | Peak | 69.34 | -4.87 | 64.47 | 74.00 | -9.53 |
| 2483.50 | Average | 54.90 | -4.87 | 50.03 | 54.00 | -3.97 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

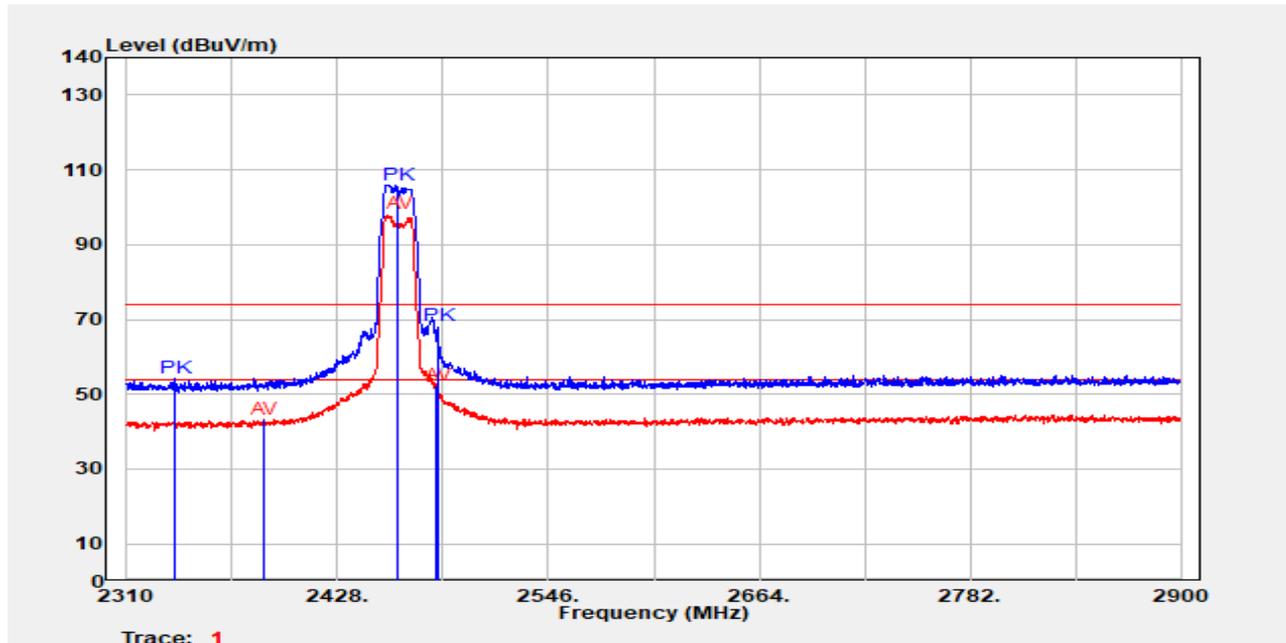
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2336.95 | Peak | 58.99 | -4.69 | 54.30 | 74.00 | -19.70 |
| 2386.73 | Average | 48.02 | -4.60 | 43.42 | 54.00 | -10.58 |
| 2462.00 | Peak | 110.77 | -4.88 | 105.89 | - | - |
| 2462.00 | Average | 102.99 | -4.88 | 98.11 | - | - |
| 2483.50 | Average | 57.25 | -4.87 | 52.38 | 54.00 | -1.62 |
| 2484.11 | Peak | 73.27 | -4.87 | 68.40 | 74.00 | -5.60 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

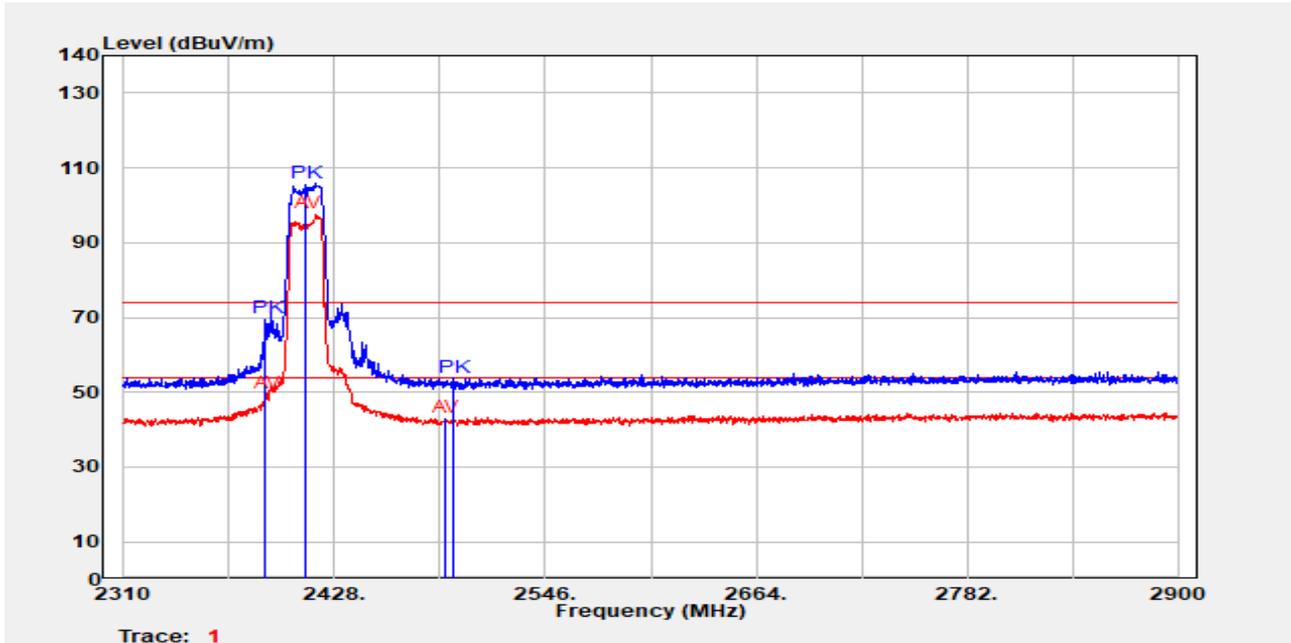
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2389.48 | Peak | 74.30 | -4.60 | 69.70 | 74.00 | -4.30 |
| 2389.48 | Average | 54.45 | -4.60 | 49.85 | 54.00 | -4.15 |
| 2412.00 | Peak | 110.45 | -4.70 | 105.75 | - | - |
| 2412.00 | Average | 102.45 | -4.70 | 97.75 | - | - |
| 2489.81 | Average | 48.16 | -4.86 | 43.30 | 54.00 | -10.70 |
| 2494.93 | Peak | 58.54 | -4.82 | 53.72 | 74.00 | -20.28 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

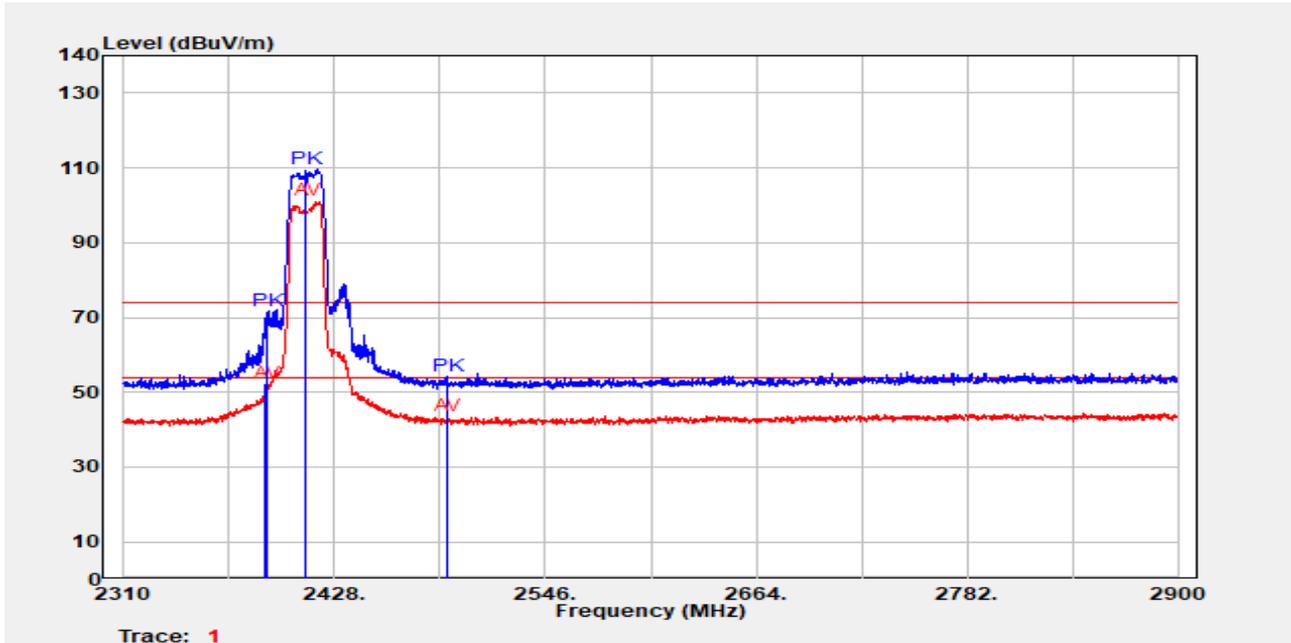
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-21
 Temp./Humi. :25.1°C/39%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2389.28 | Average | 56.79 | -4.60 | 52.19 | 54.00 | -1.81 |
| 2389.68 | Peak | 76.44 | -4.60 | 71.84 | 74.00 | -2.16 |
| 2412.00 | Peak | 114.46 | -4.70 | 109.76 | - | - |
| 2412.00 | Average | 106.03 | -4.70 | 101.33 | - | - |
| 2490.60 | Peak | 59.11 | -4.85 | 54.26 | 74.00 | -19.74 |
| 2490.80 | Average | 48.60 | -4.85 | 43.75 | 54.00 | -10.25 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

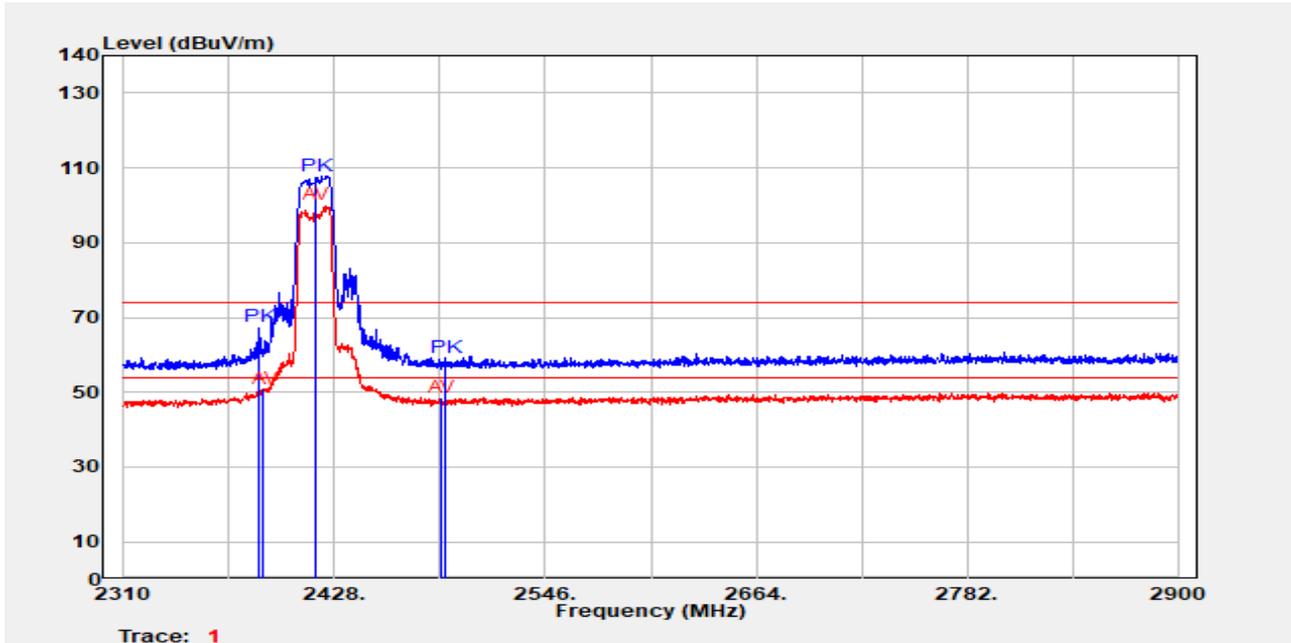
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2385.94 | Peak | 72.10 | -4.59 | 67.51 | 74.00 | -6.49 |
| 2388.30 | Average | 55.45 | -4.60 | 50.85 | 54.00 | -3.15 |
| 2417.00 | Peak | 112.53 | -4.69 | 107.84 | - | - |
| 2417.00 | Average | 104.75 | -4.69 | 100.06 | - | - |
| 2487.45 | Average | 53.45 | -4.87 | 48.58 | 54.00 | -5.42 |
| 2489.81 | Peak | 64.19 | -4.86 | 59.33 | 74.00 | -14.67 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

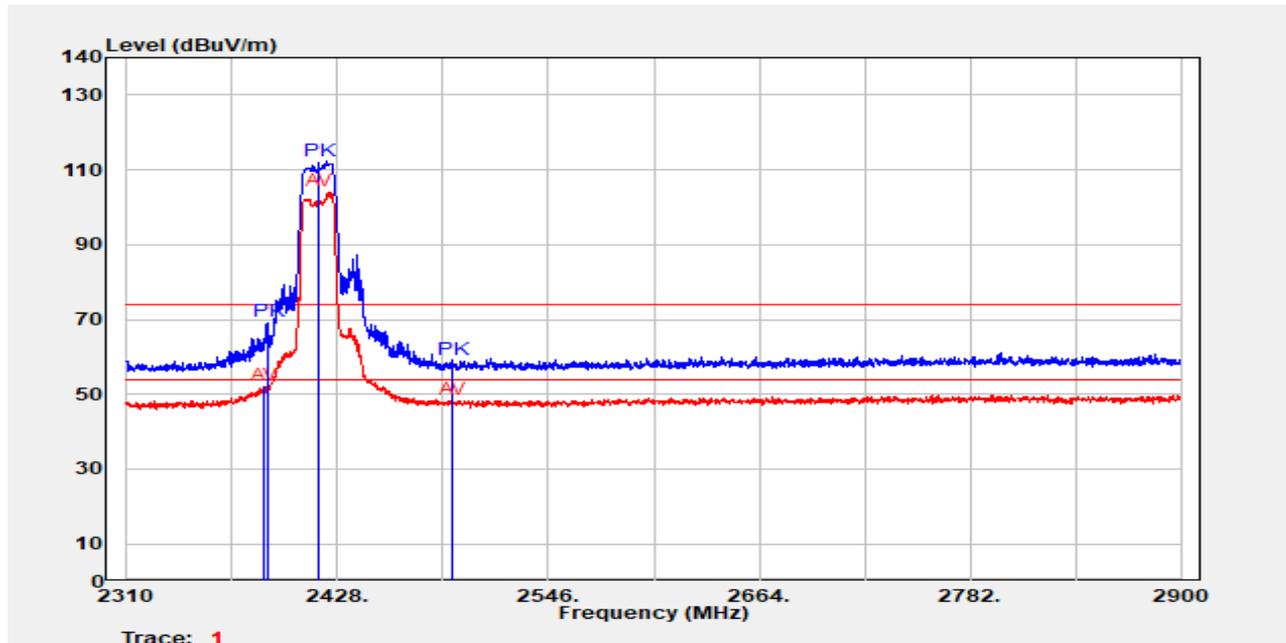
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2386.53 | Average | 56.80 | -4.60 | 52.20 | 54.00 | -1.80 |
| 2388.69 | Peak | 74.13 | -4.60 | 69.53 | 74.00 | -4.47 |
| 2417.00 | Peak | 117.16 | -4.69 | 112.47 | - | - |
| 2417.00 | Average | 109.08 | -4.69 | 104.39 | - | - |
| 2491.58 | Peak | 63.87 | -4.84 | 59.03 | 74.00 | -14.97 |
| 2491.78 | Average | 53.51 | -4.84 | 48.67 | 54.00 | -5.33 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

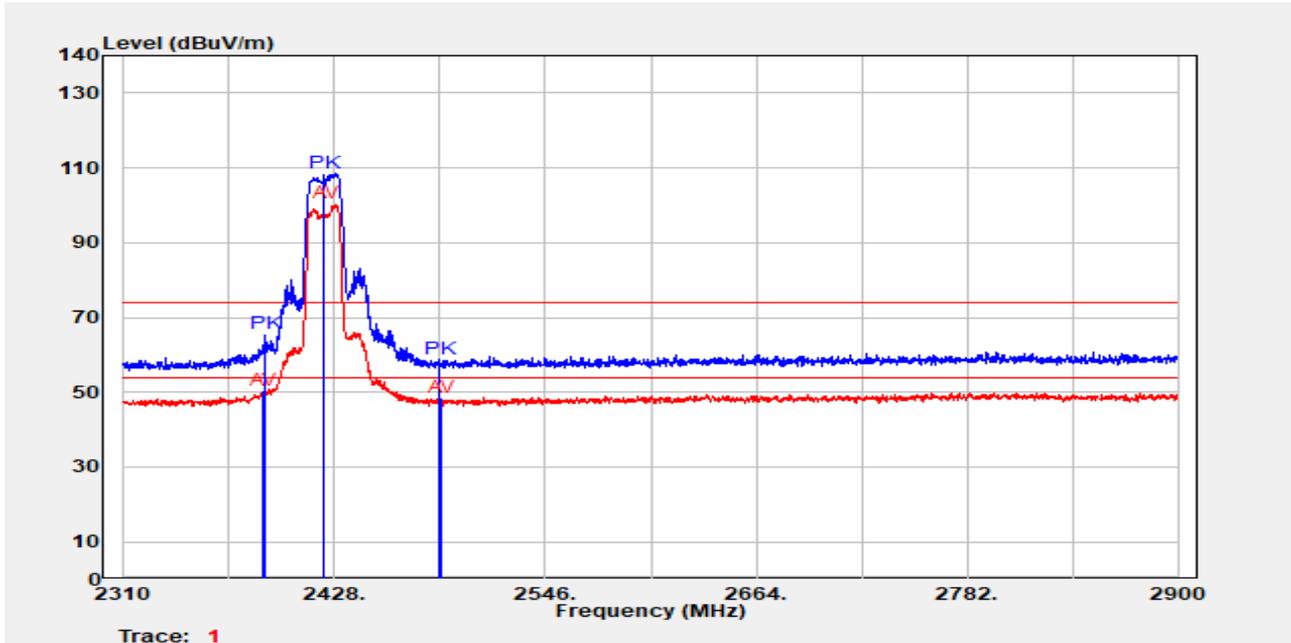
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2387.32 | Average | 54.96 | -4.60 | 50.36 | 54.00 | -3.64 |
| 2388.89 | Peak | 70.34 | -4.60 | 65.74 | 74.00 | -8.26 |
| 2422.00 | Peak | 113.19 | -4.69 | 108.50 | - | - |
| 2422.00 | Average | 105.08 | -4.69 | 100.39 | - | - |
| 2486.27 | Peak | 63.68 | -4.87 | 58.81 | 74.00 | -15.19 |
| 2487.06 | Average | 53.40 | -4.87 | 48.53 | 54.00 | -5.47 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

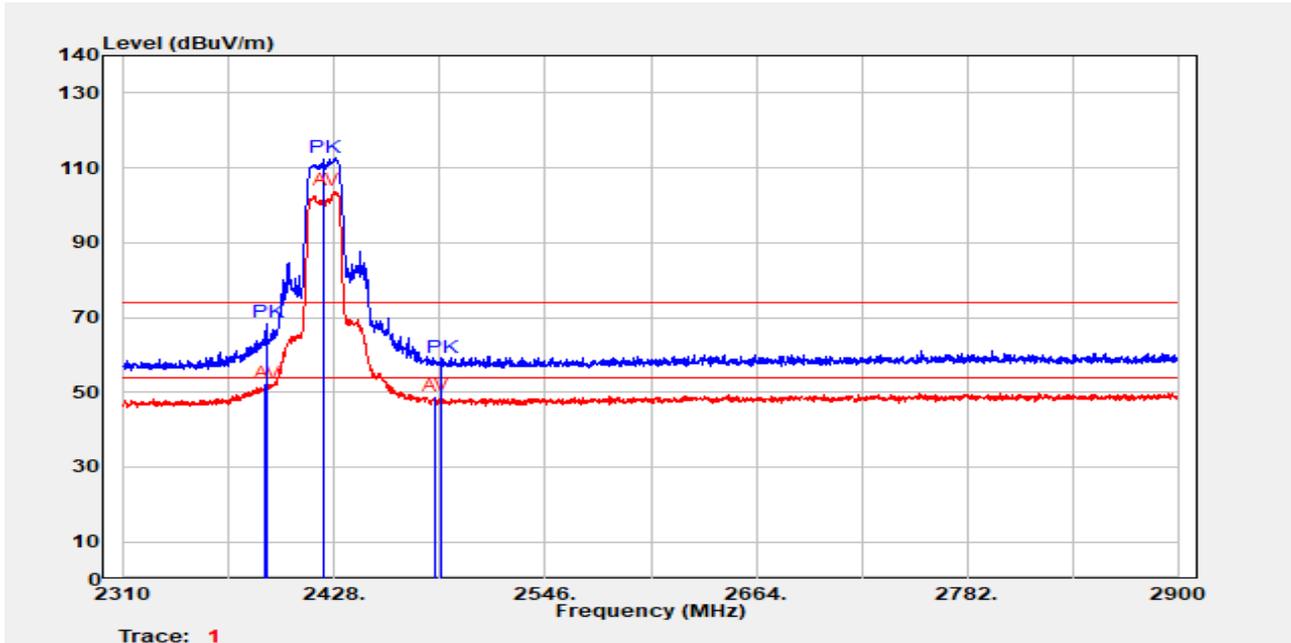
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------|------------------------|--------------|
| 2389.28 | Average | 57.09 | -4.60 | 52.49 | 54.00 | -1.51 |
| 2389.87 | Peak | 73.30 | -4.60 | 68.70 | 74.00 | -5.30 |
| 2422.00 | Peak | 117.30 | -4.69 | 112.61 | - | - |
| 2422.00 | Average | 108.63 | -4.69 | 103.94 | - | - |
| 2483.72 | Average | 53.67 | -4.87 | 48.80 | 54.00 | -5.20 |
| 2488.04 | Peak | 64.04 | -4.86 | 59.18 | 74.00 | -14.82 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

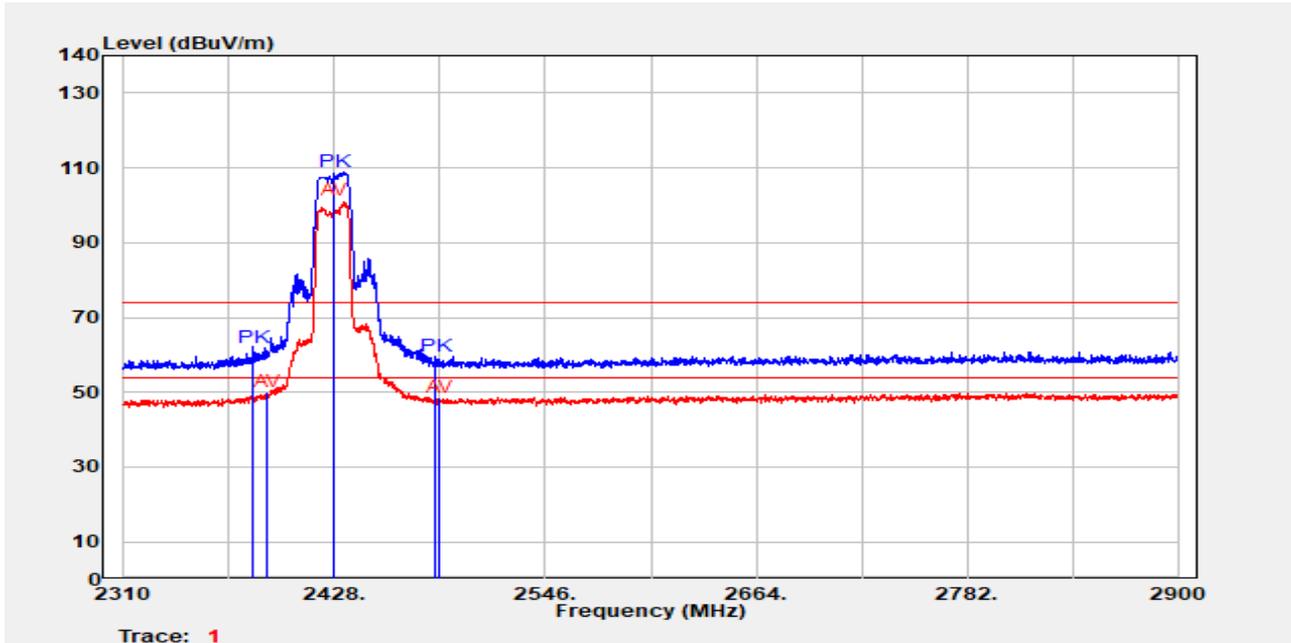
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------|------------------------|--------------|
| 2382.40 | Peak | 66.56 | -4.60 | 61.96 | 74.00 | -12.04 |
| 2389.87 | Average | 54.69 | -4.60 | 50.09 | 54.00 | -3.91 |
| 2427.00 | Peak | 113.45 | -4.69 | 108.76 | - | - |
| 2427.00 | Average | 105.81 | -4.69 | 101.12 | - | - |
| 2484.70 | Peak | 64.52 | -4.87 | 59.65 | 74.00 | -14.35 |
| 2486.27 | Average | 53.55 | -4.87 | 48.68 | 54.00 | -5.32 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

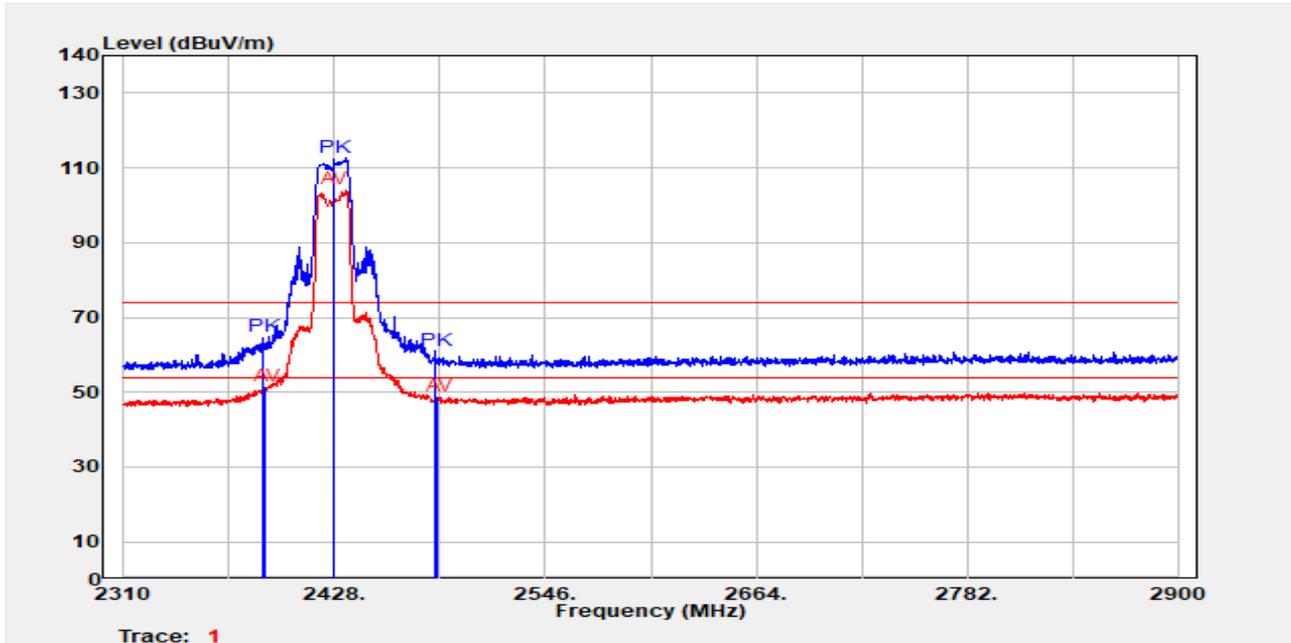
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2387.71 | Peak | 69.47 | -4.60 | 64.87 | 74.00 | -9.13 |
| 2389.28 | Average | 56.37 | -4.60 | 51.77 | 54.00 | -2.23 |
| 2427.00 | Peak | 117.24 | -4.69 | 112.55 | - | - |
| 2427.00 | Average | 108.94 | -4.69 | 104.25 | - | - |
| 2484.50 | Peak | 66.10 | -4.87 | 61.23 | 74.00 | -12.77 |
| 2485.88 | Average | 53.81 | -4.87 | 48.94 | 54.00 | -5.06 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

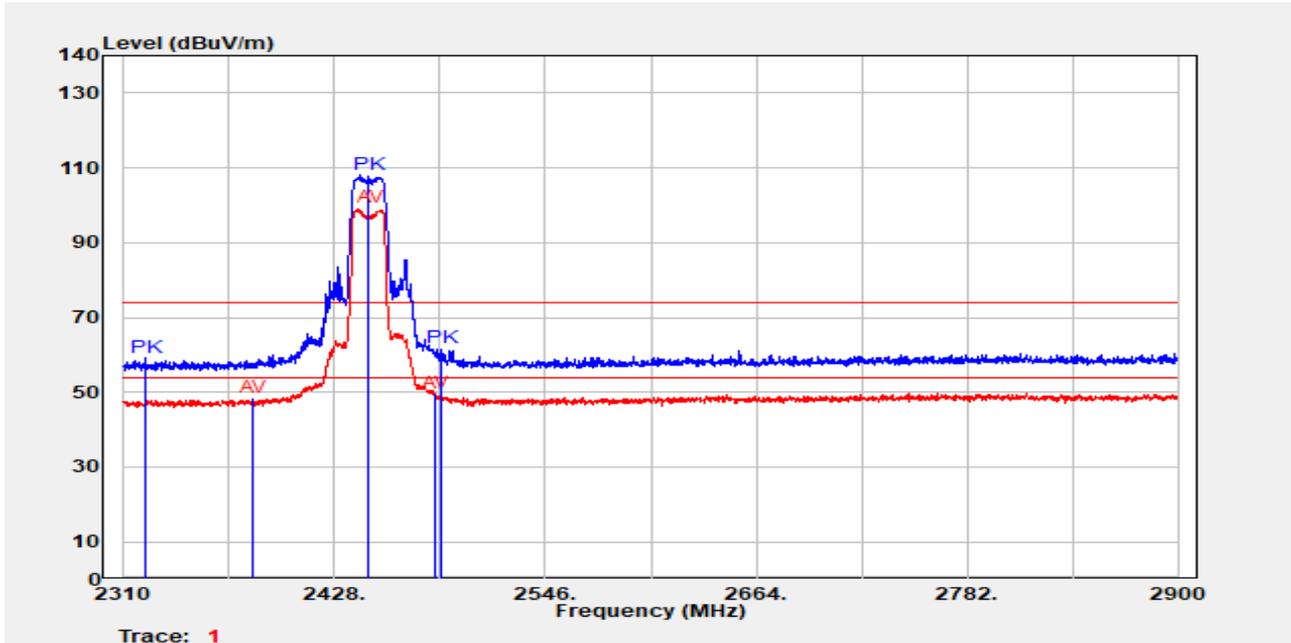
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 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2322.00 | Peak | 63.89 | -4.68 | 59.21 | 74.00 | -14.79 |
| 2381.81 | Average | 53.13 | -4.60 | 48.53 | 54.00 | -5.47 |
| 2447.00 | Peak | 113.15 | -4.85 | 108.30 | - | - |
| 2447.00 | Average | 104.24 | -4.85 | 99.39 | - | - |
| 2483.91 | Average | 54.67 | -4.87 | 49.80 | 54.00 | -4.20 |
| 2487.26 | Peak | 66.67 | -4.87 | 61.80 | 74.00 | -12.20 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

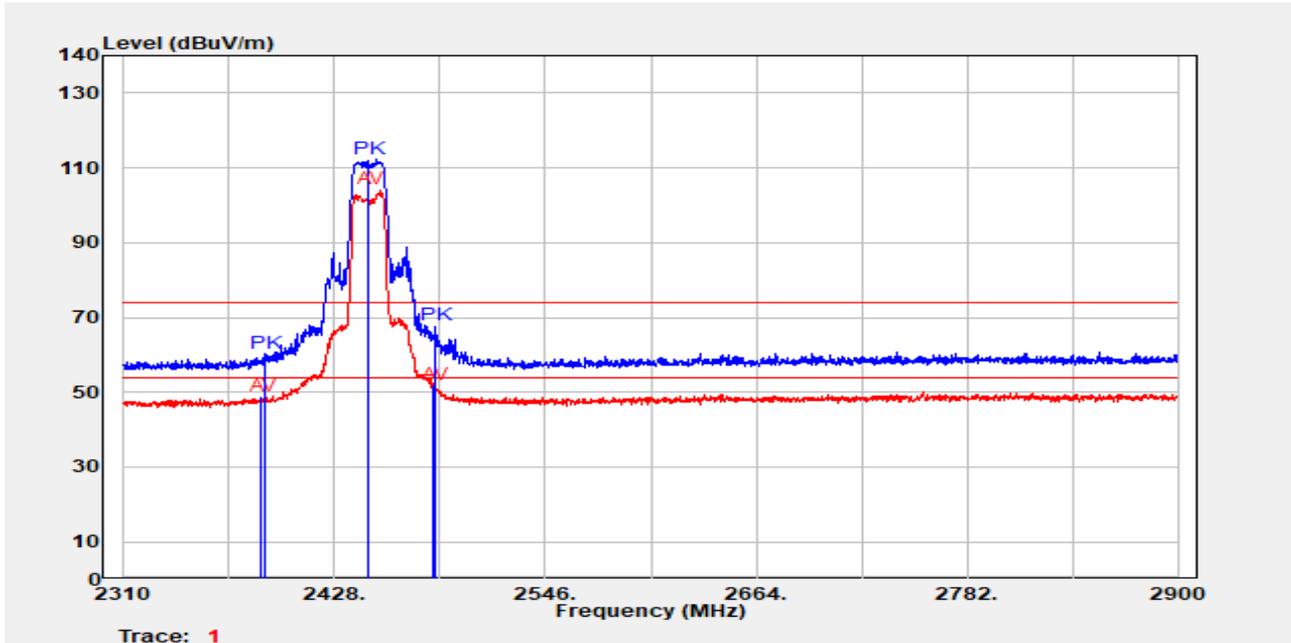
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 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2386.92 | Average | 53.42 | -4.60 | 48.82 | 54.00 | -5.18 |
| 2389.09 | Peak | 64.99 | -4.60 | 60.39 | 74.00 | -13.61 |
| 2447.00 | Peak | 117.22 | -4.85 | 112.37 | - | - |
| 2447.00 | Average | 109.01 | -4.85 | 104.16 | - | - |
| 2483.50 | Average | 56.98 | -4.87 | 52.11 | 54.00 | -1.89 |
| 2484.50 | Peak | 72.66 | -4.87 | 67.79 | 74.00 | -6.21 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

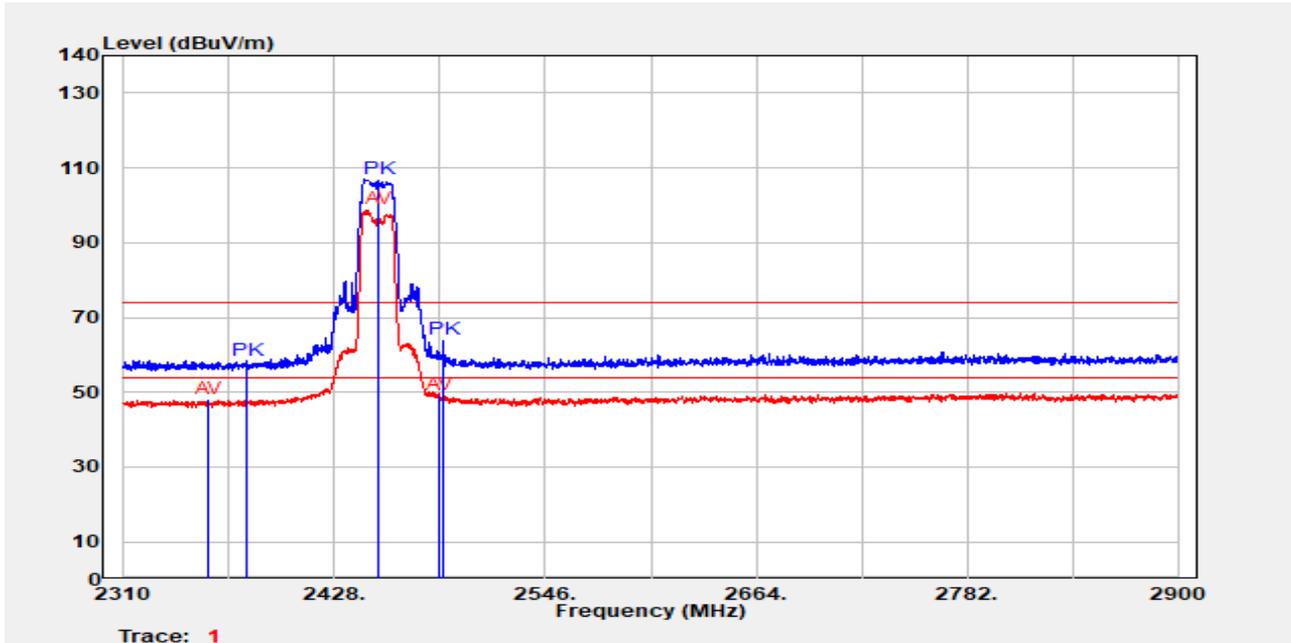
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2356.82 | Average | 52.84 | -4.69 | 48.15 | 54.00 | -5.85 |
| 2378.27 | Peak | 63.12 | -4.62 | 58.50 | 74.00 | -15.50 |
| 2452.00 | Peak | 112.03 | -4.88 | 107.15 | - | - |
| 2452.00 | Average | 103.98 | -4.88 | 99.10 | - | - |
| 2486.27 | Average | 54.31 | -4.87 | 49.44 | 54.00 | -4.56 |
| 2488.63 | Peak | 69.08 | -4.86 | 64.22 | 74.00 | -9.78 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

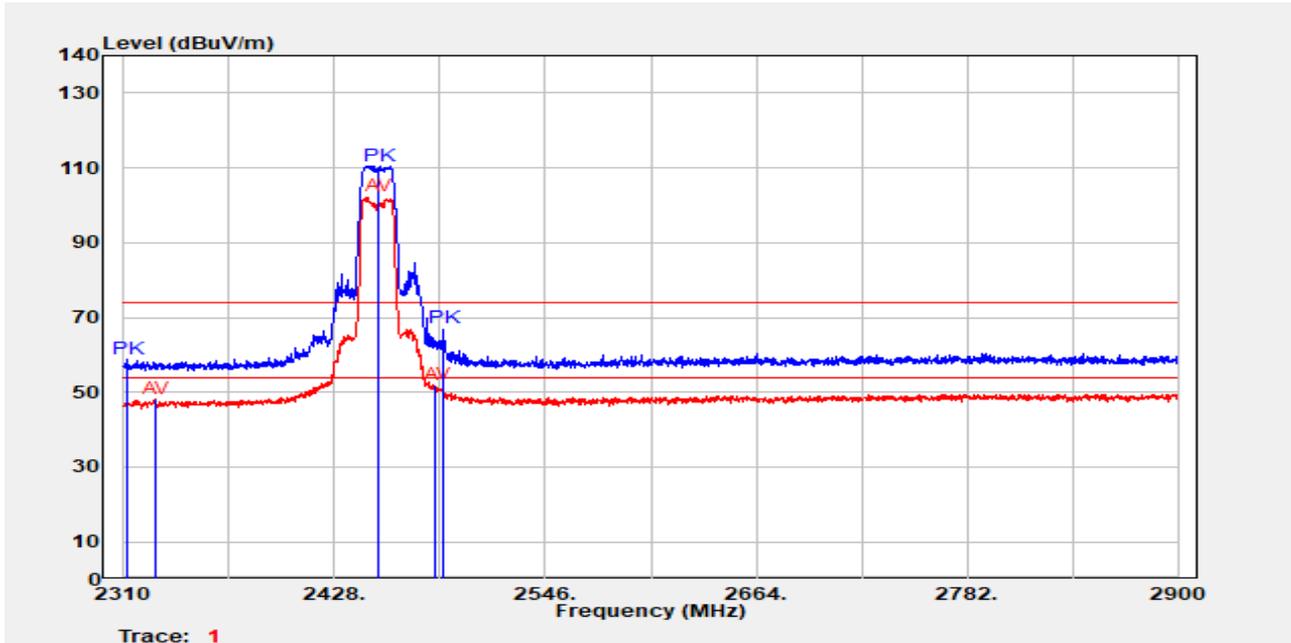
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2311.57 | Peak | 63.58 | -4.60 | 58.98 | 74.00 | -15.02 |
| 2327.31 | Average | 53.06 | -4.69 | 48.37 | 54.00 | -5.63 |
| 2452.00 | Peak | 115.47 | -4.88 | 110.59 | - | - |
| 2452.00 | Average | 107.37 | -4.88 | 102.49 | - | - |
| 2484.70 | Average | 56.77 | -4.87 | 51.90 | 54.00 | -2.10 |
| 2489.22 | Peak | 72.19 | -4.86 | 67.33 | 74.00 | -6.67 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

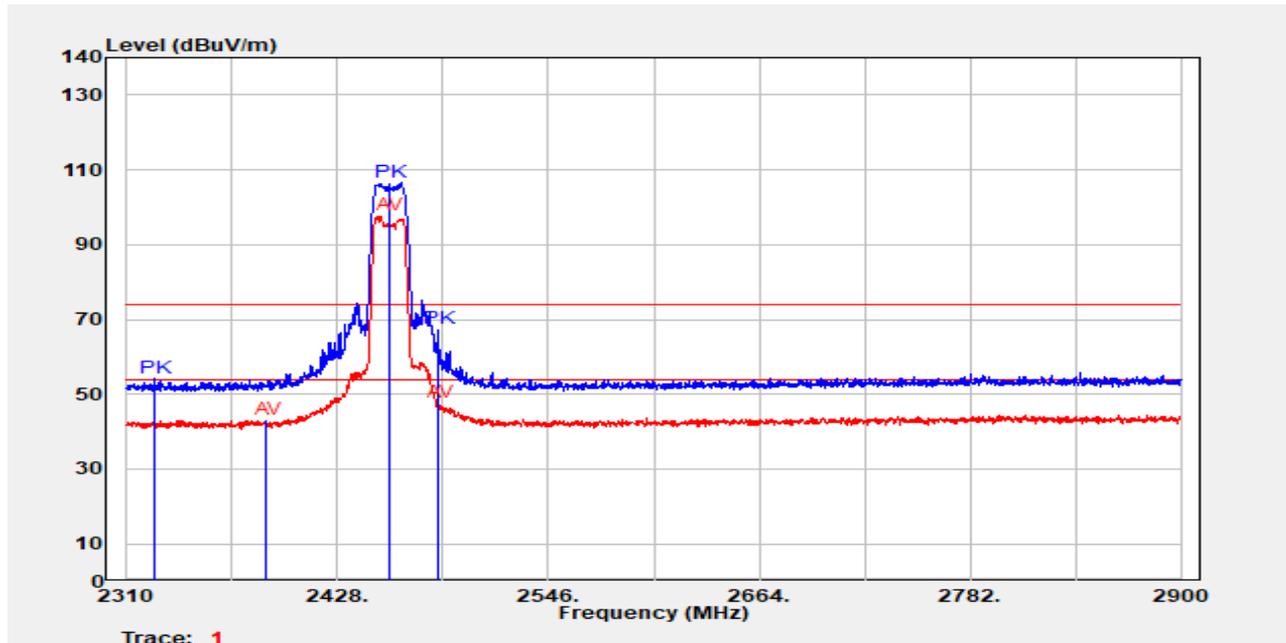
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2325.74 | Peak | 58.92 | -4.69 | 54.23 | 74.00 | -19.77 |
| 2388.10 | Average | 47.85 | -4.60 | 43.25 | 54.00 | -10.75 |
| 2457.00 | Peak | 111.57 | -4.88 | 106.69 | - | - |
| 2457.00 | Average | 102.67 | -4.88 | 97.79 | - | - |
| 2483.72 | Peak | 72.36 | -4.87 | 67.49 | 74.00 | -6.51 |
| 2484.50 | Average | 52.68 | -4.87 | 47.81 | 54.00 | -6.19 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

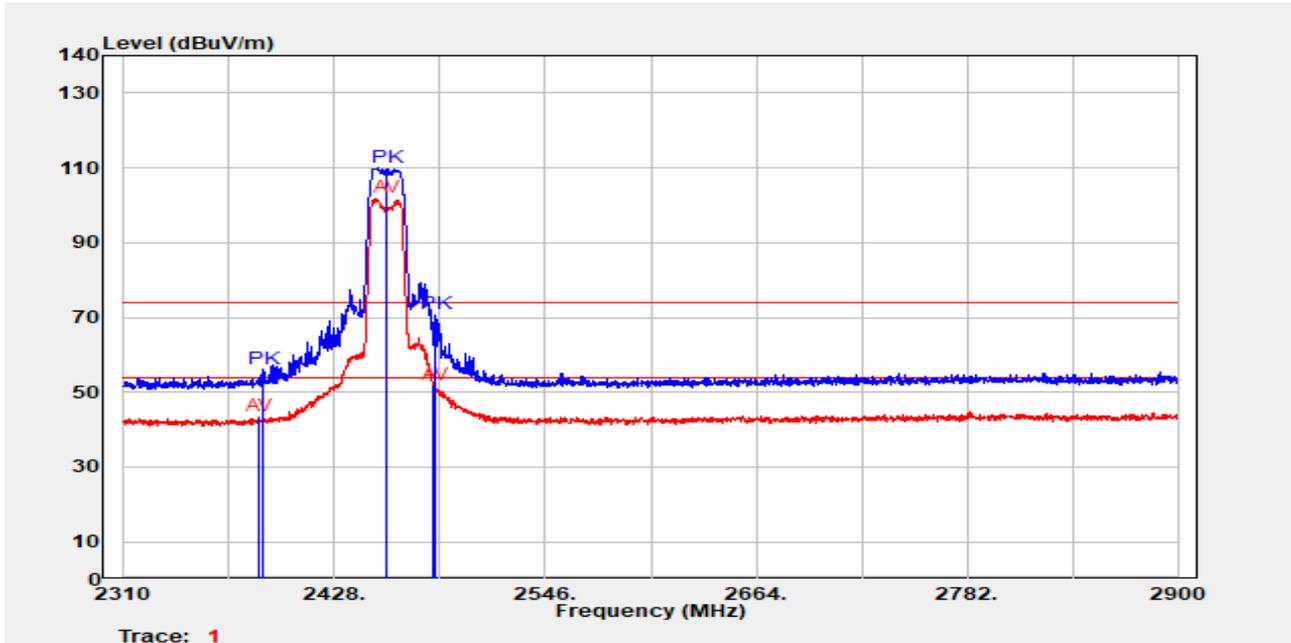
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2385.55 | Average | 48.19 | -4.59 | 43.60 | 54.00 | -10.40 |
| 2387.91 | Peak | 60.93 | -4.60 | 56.33 | 74.00 | -17.67 |
| 2457.00 | Peak | 114.76 | -4.88 | 109.88 | - | - |
| 2457.00 | Average | 107.05 | -4.88 | 102.17 | - | - |
| 2483.50 | Average | 56.70 | -4.87 | 51.83 | 54.00 | -2.17 |
| 2484.11 | Peak | 75.72 | -4.87 | 70.85 | 74.00 | -3.15 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

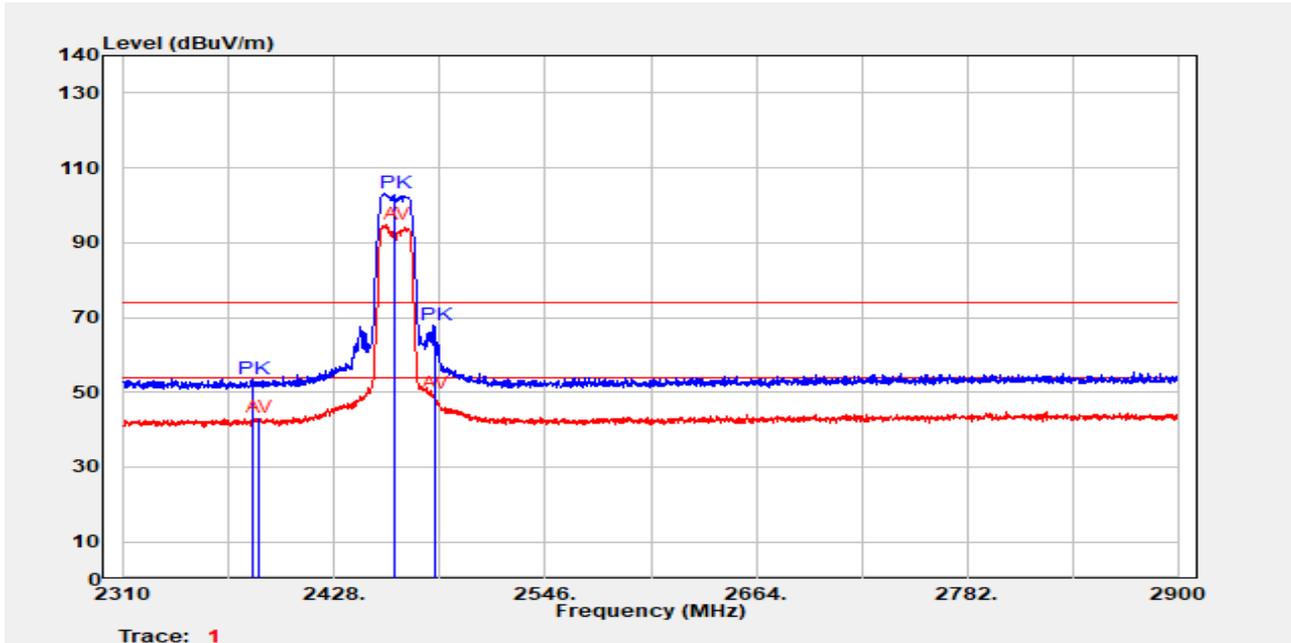
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2381.81 | Peak | 58.15 | -4.60 | 53.55 | 74.00 | -20.45 |
| 2385.35 | Average | 47.93 | -4.59 | 43.34 | 54.00 | -10.66 |
| 2462.00 | Peak | 108.18 | -4.88 | 103.30 | - | - |
| 2462.00 | Average | 99.89 | -4.88 | 95.01 | - | - |
| 2483.91 | Average | 54.65 | -4.87 | 49.78 | 54.00 | -4.22 |
| 2484.50 | Peak | 72.68 | -4.87 | 67.81 | 74.00 | -6.19 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

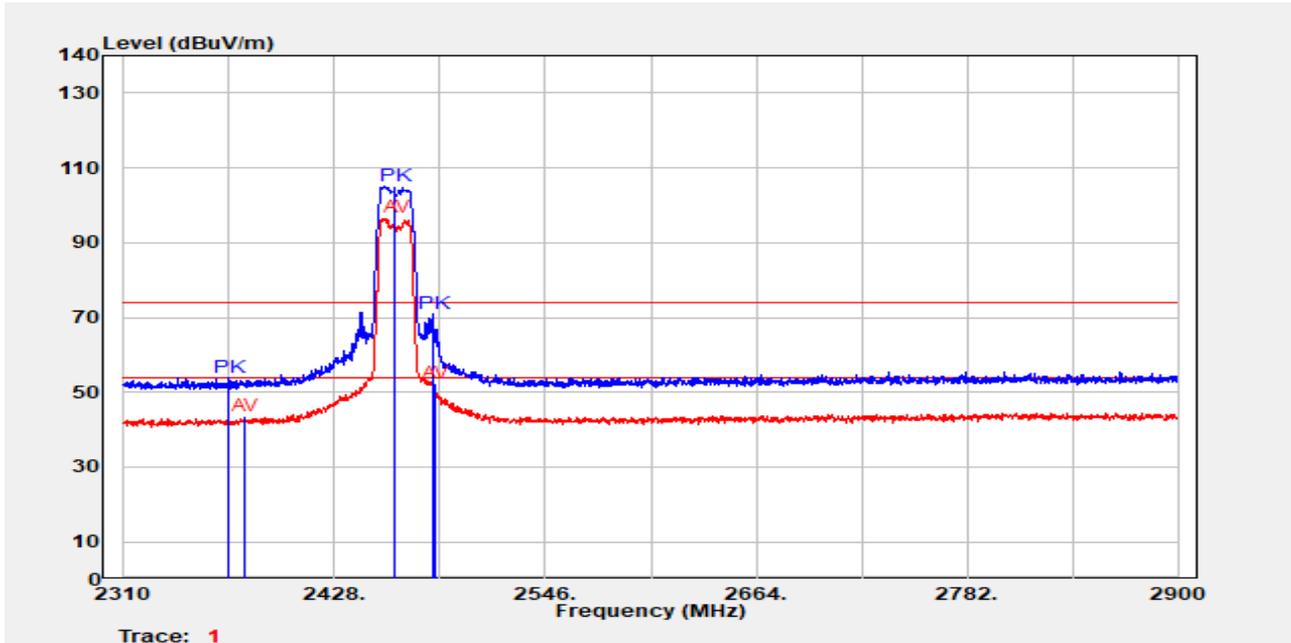
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-22
 Temp./Humi. :24.9°C/44%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2369.02 | Peak | 58.48 | -4.70 | 53.78 | 74.00 | -20.22 |
| 2377.48 | Average | 48.22 | -4.63 | 43.59 | 54.00 | -10.41 |
| 2462.00 | Peak | 109.99 | -4.88 | 105.11 | - | - |
| 2462.00 | Average | 101.74 | -4.88 | 96.86 | - | - |
| 2483.50 | Peak | 75.75 | -4.87 | 70.88 | 74.00 | -3.12 |
| 2483.91 | Average | 57.11 | -4.87 | 52.24 | 54.00 | -1.76 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

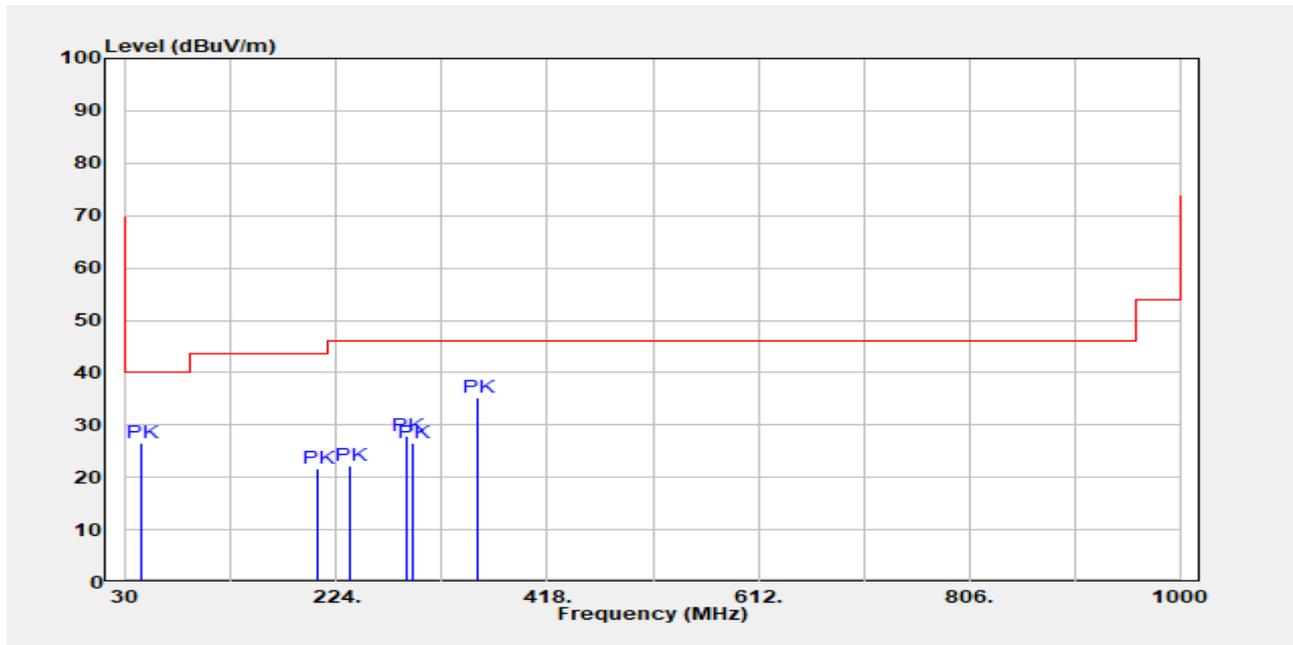
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11.6.2 Spurious Emission:

Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 43.58 | Peak | 39.19 | -12.76 | 26.43 | 40.00 | -13.57 |
| 206.54 | Peak | 37.28 | -15.65 | 21.63 | 43.50 | -21.87 |
| 235.64 | Peak | 36.48 | -14.37 | 22.11 | 46.00 | -23.89 |
| 288.02 | Peak | 39.89 | -11.91 | 27.98 | 46.00 | -18.02 |
| 293.84 | Peak | 38.19 | -11.76 | 26.43 | 46.00 | -19.57 |
| 353.01 | Peak | 45.57 | -10.41 | 35.16 | 46.00 | -10.84 |

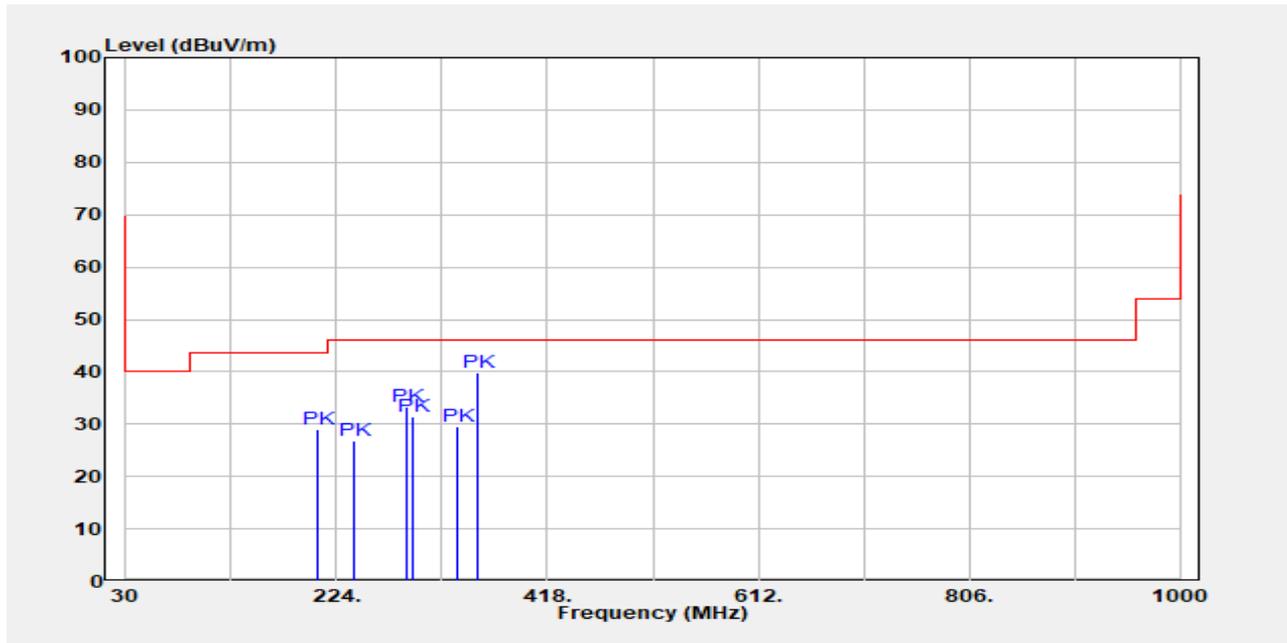
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 205.57 | Peak | 44.58 | -15.66 | 28.92 | 43.50 | -14.58 |
| 240.49 | Peak | 40.73 | -13.89 | 26.84 | 46.00 | -19.16 |
| 288.02 | Peak | 45.22 | -11.91 | 33.31 | 46.00 | -12.69 |
| 293.84 | Peak | 43.28 | -11.76 | 31.52 | 46.00 | -14.48 |
| 335.55 | Peak | 39.94 | -10.46 | 29.48 | 46.00 | -16.52 |
| 353.01 | Peak | 50.12 | -10.41 | 39.71 | 46.00 | -6.29 |

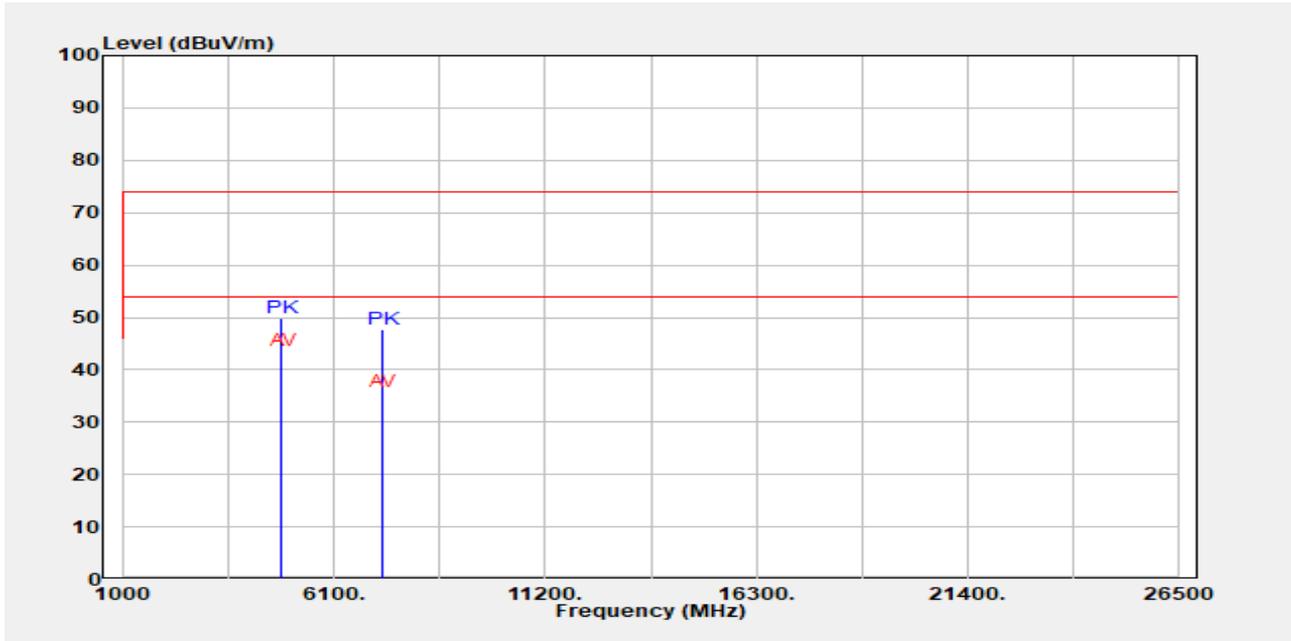
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4824.00 | Peak | 47.39 | 2.42 | 49.81 | 74.00 | -24.19 |
| 4824.00 | Average | 41.31 | 2.42 | 43.73 | 54.00 | -10.27 |
| 7236.00 | Peak | 40.57 | 7.06 | 47.63 | 74.00 | -26.37 |
| 7236.00 | Average | 28.76 | 7.06 | 35.82 | 54.00 | -18.18 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

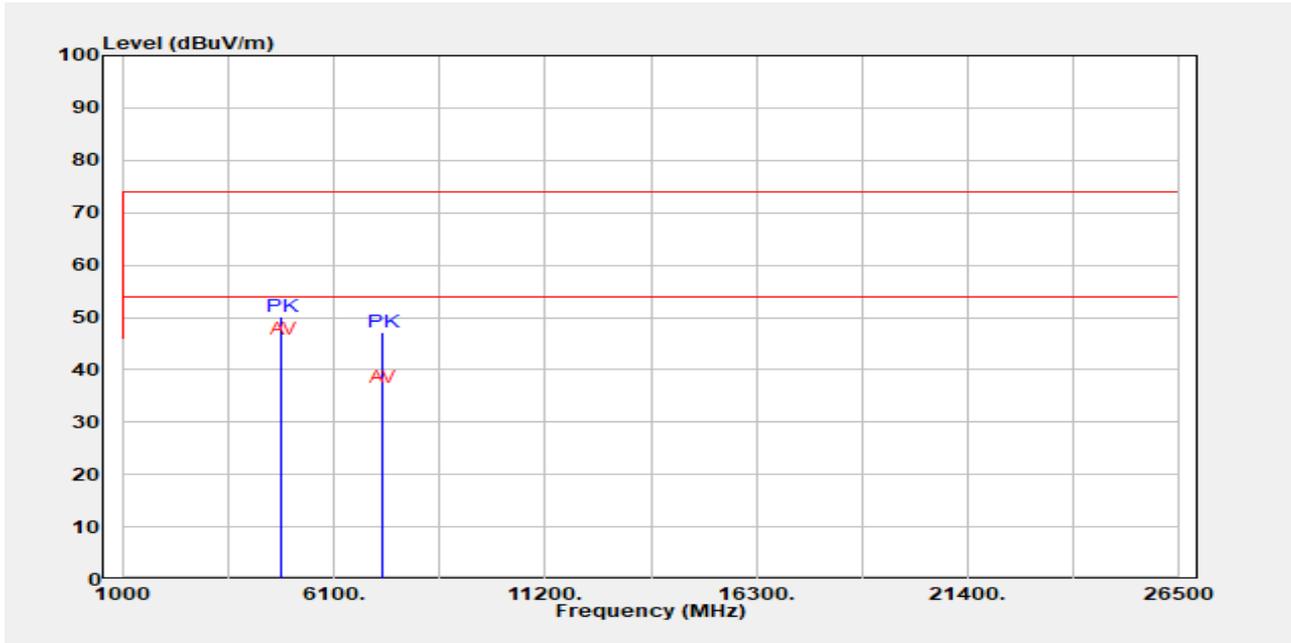
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4824.00 | Peak | 47.60 | 2.42 | 50.02 | 74.00 | -23.98 |
| 4824.00 | Average | 43.39 | 2.42 | 45.81 | 54.00 | -8.19 |
| 7236.00 | Peak | 40.20 | 7.06 | 47.26 | 74.00 | -26.74 |
| 7236.00 | Average | 29.53 | 7.06 | 36.59 | 54.00 | -17.41 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

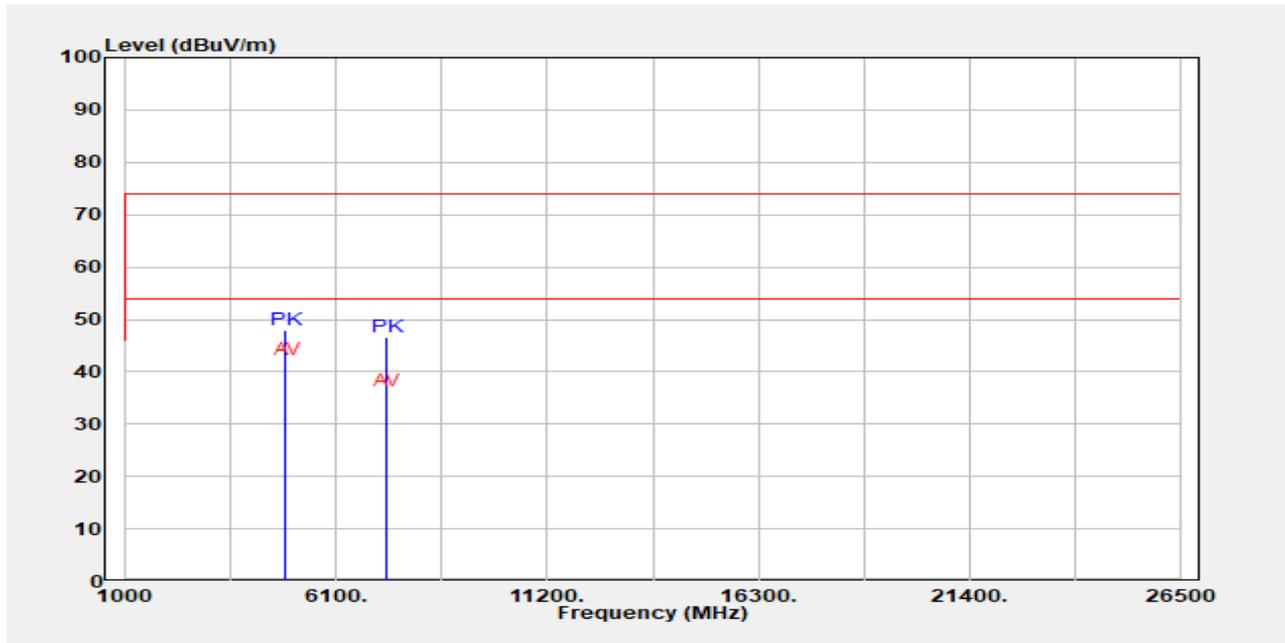
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4874.00 | Peak | 45.37 | 2.54 | 47.91 | 74.00 | -26.09 |
| 4874.00 | Average | 39.77 | 2.54 | 42.31 | 54.00 | -11.69 |
| 7311.00 | Peak | 39.31 | 7.19 | 46.50 | 74.00 | -27.50 |
| 7311.00 | Average | 29.13 | 7.19 | 36.32 | 54.00 | -17.68 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

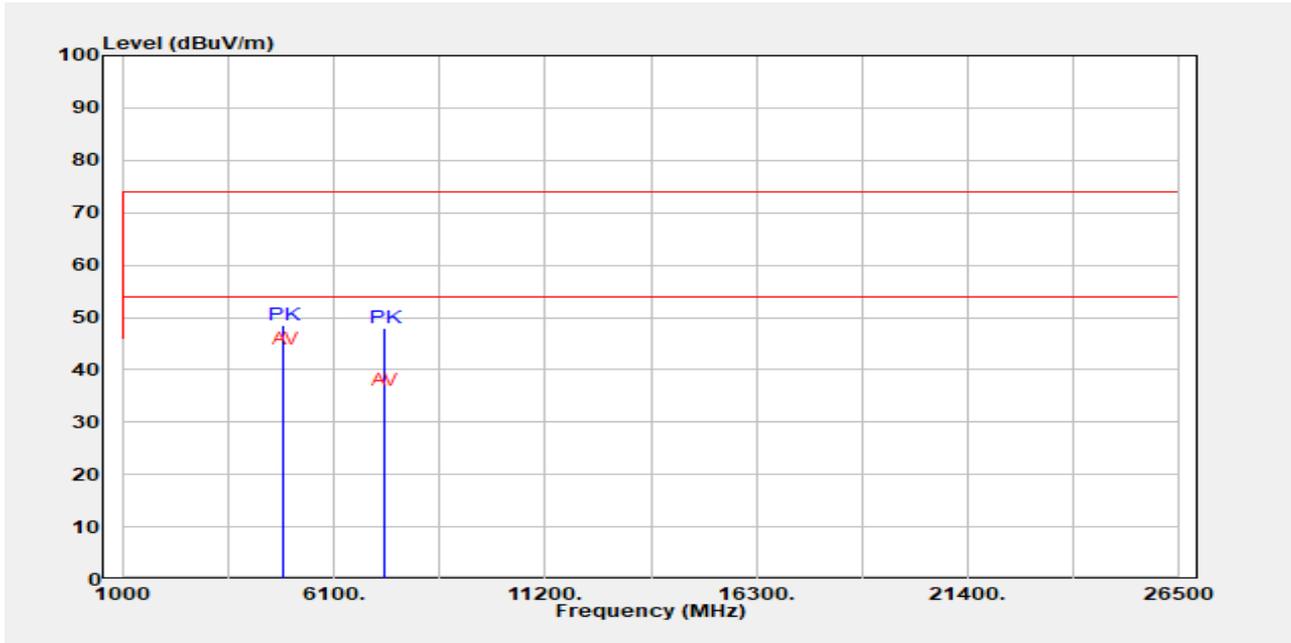
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4874.00 | Peak | 45.93 | 2.54 | 48.47 | 74.00 | -25.53 |
| 4874.00 | Average | 41.23 | 2.54 | 43.77 | 54.00 | -10.23 |
| 7311.00 | Peak | 40.79 | 7.19 | 47.98 | 74.00 | -26.02 |
| 7311.00 | Average | 28.94 | 7.19 | 36.13 | 54.00 | -17.87 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

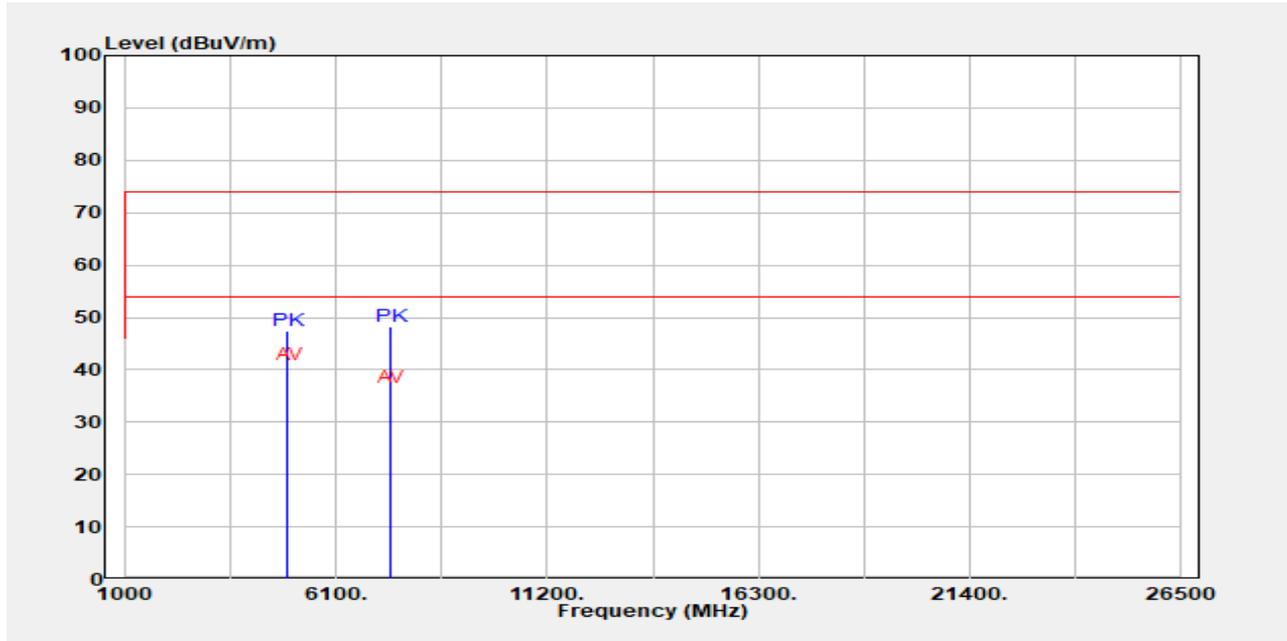
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00 | Peak | 44.79 | 2.71 | 47.50 | 74.00 | -26.50 |
| 4924.00 | Average | 38.26 | 2.71 | 40.97 | 54.00 | -13.03 |
| 7386.00 | Peak | 40.81 | 7.42 | 48.23 | 74.00 | -25.77 |
| 7386.00 | Average | 29.11 | 7.42 | 36.53 | 54.00 | -17.47 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

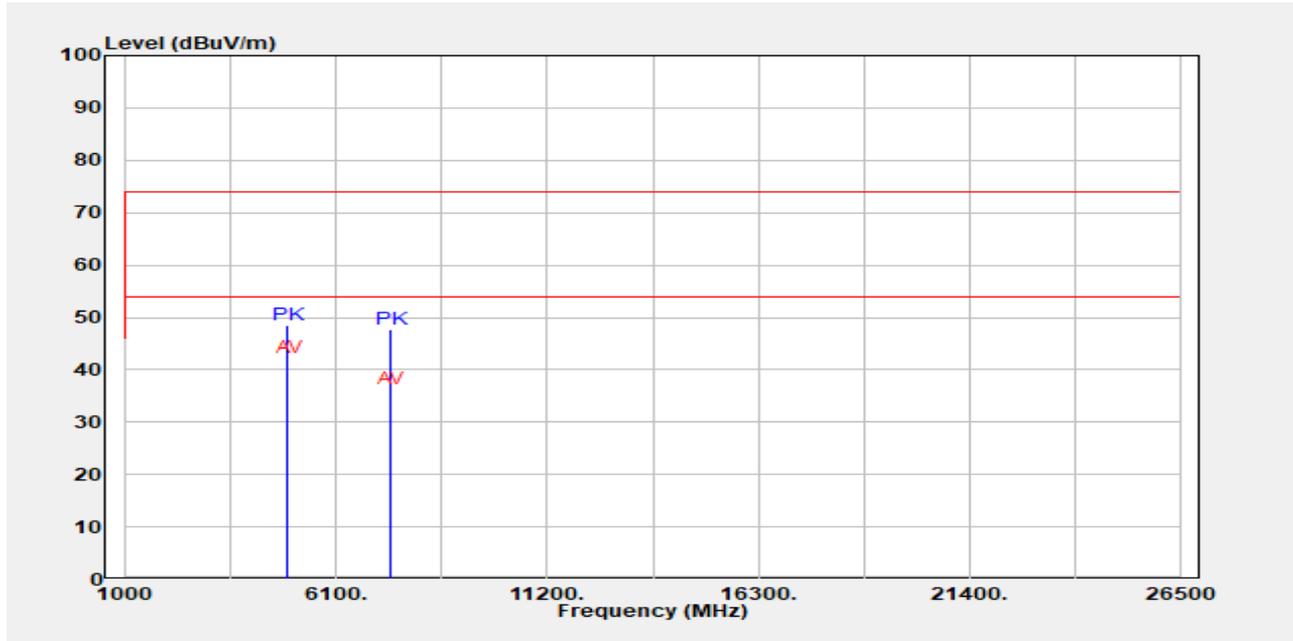
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Report Number :TERF2501000383ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 | Peak | 45.67 | 2.71 | 48.38 | 74.00 | -25.62 |
| 4924.00 | Average | 39.46 | 2.71 | 42.17 | 54.00 | -11.83 |
| 7386.00 | Peak | 40.20 | 7.42 | 47.62 | 74.00 | -26.38 |
| 7386.00 | Average | 28.98 | 7.42 | 36.40 | 54.00 | -17.60 |

Duty Cycle=99.62%

Average Duty Factor=0 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

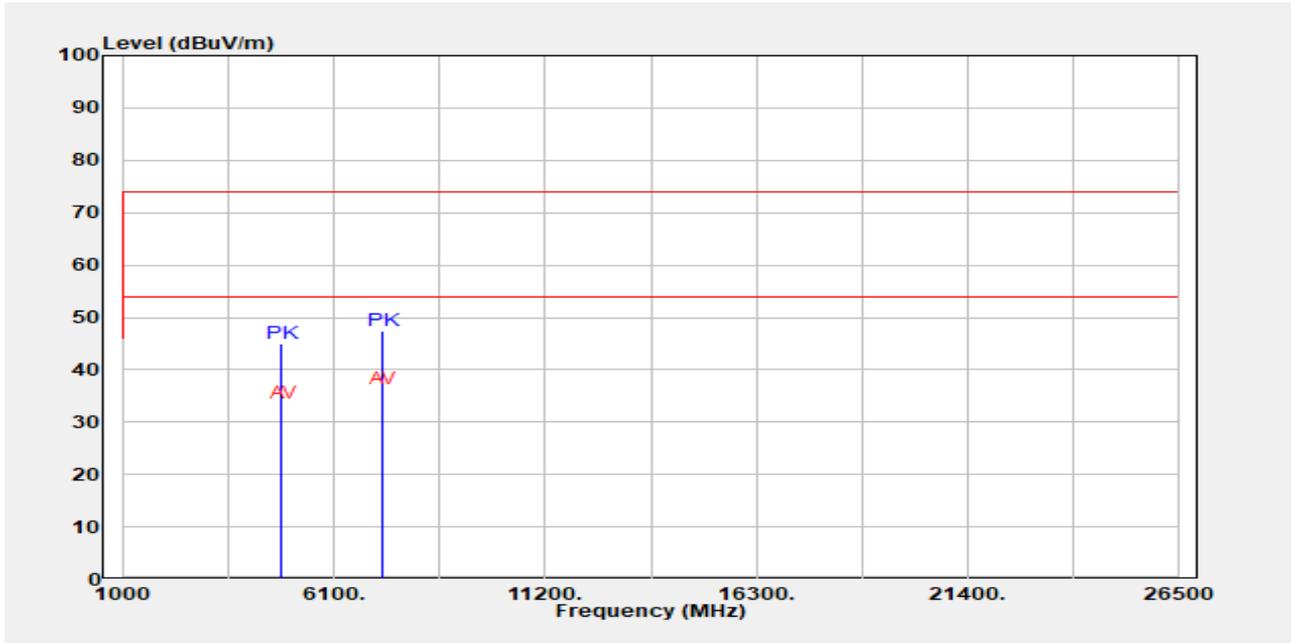
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4824.00 | Peak | 42.58 | 2.42 | 45.00 | 74.00 | -29.00 |
| 4824.00 | Average | 31.18 | 2.42 | 33.60 | 54.00 | -20.40 |
| 7236.00 | Peak | 40.39 | 7.06 | 47.45 | 74.00 | -26.55 |
| 7236.00 | Average | 29.20 | 7.06 | 36.26 | 54.00 | -17.74 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

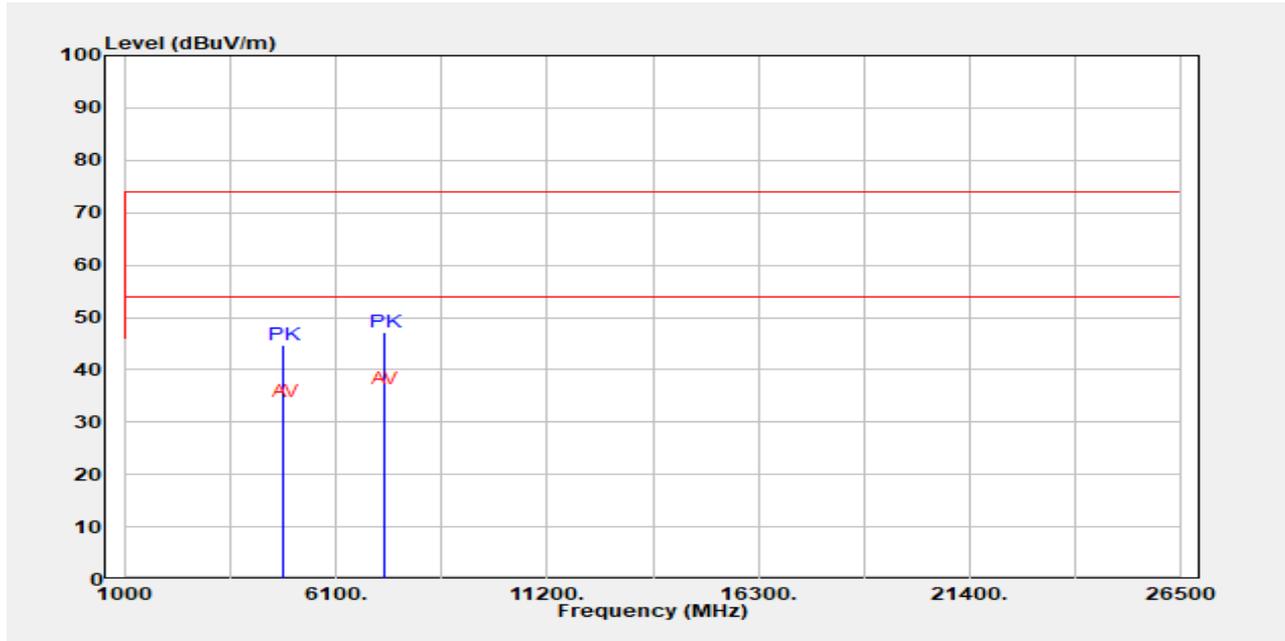
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4824.00 | Peak | 42.29 | 2.42 | 44.71 | 74.00 | -29.29 |
| 4824.00 | Average | 31.37 | 2.42 | 33.79 | 54.00 | -20.21 |
| 7236.00 | Peak | 40.09 | 7.06 | 47.15 | 74.00 | -26.85 |
| 7236.00 | Average | 29.24 | 7.06 | 36.30 | 54.00 | -17.70 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

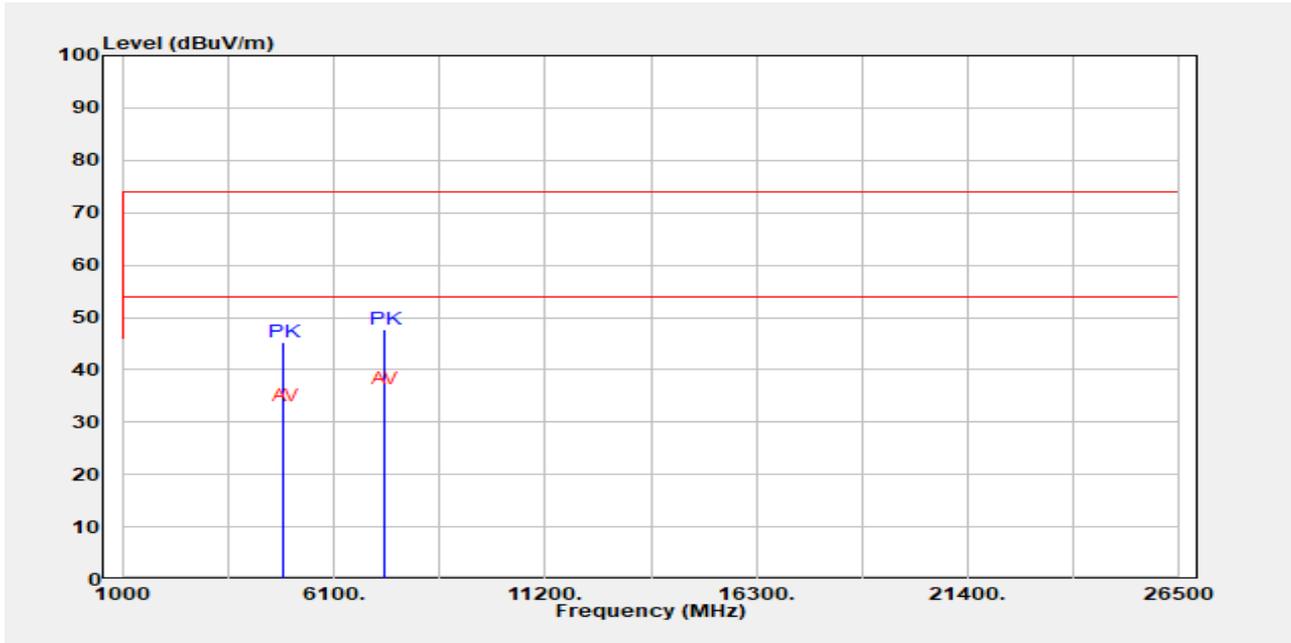
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4874.00 | Peak | 42.59 | 2.54 | 45.13 | 74.00 | -28.87 |
| 4874.00 | Average | 30.40 | 2.54 | 32.94 | 54.00 | -21.06 |
| 7311.00 | Peak | 40.62 | 7.19 | 47.81 | 74.00 | -26.19 |
| 7311.00 | Average | 29.15 | 7.19 | 36.34 | 54.00 | -17.66 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

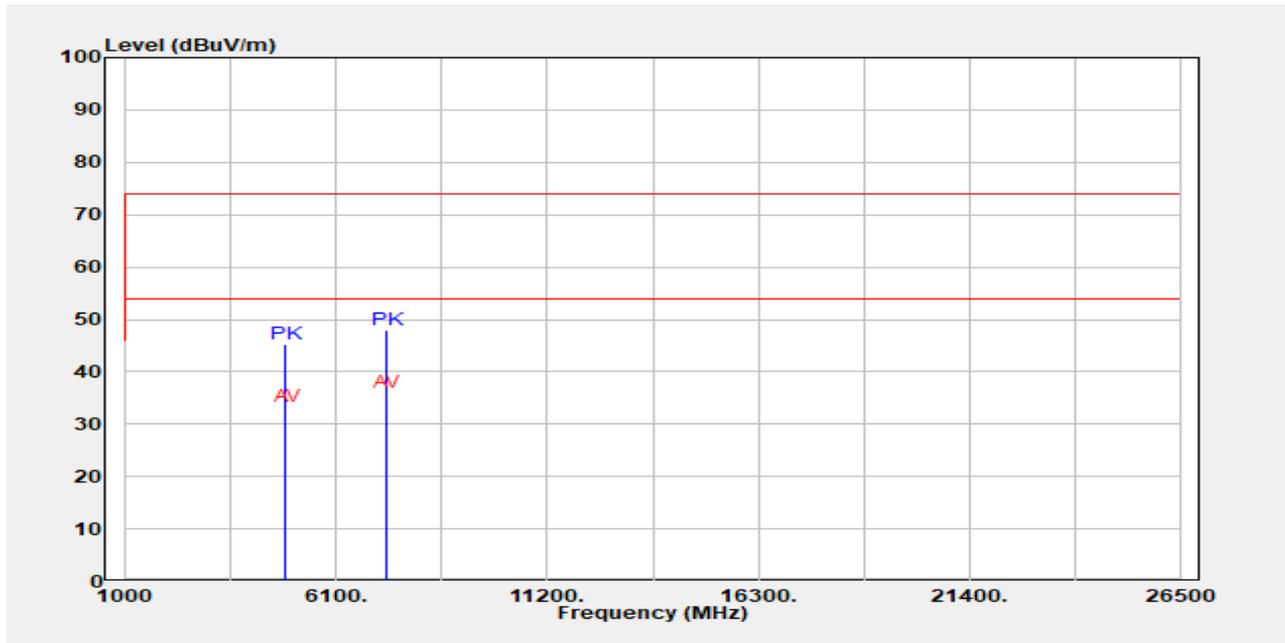
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4874.00 | Peak | 42.67 | 2.54 | 45.21 | 74.00 | -28.79 |
| 4874.00 | Average | 30.71 | 2.54 | 33.25 | 54.00 | -20.75 |
| 7311.00 | Peak | 40.80 | 7.19 | 47.99 | 74.00 | -26.01 |
| 7311.00 | Average | 28.81 | 7.19 | 36.00 | 54.00 | -18.00 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

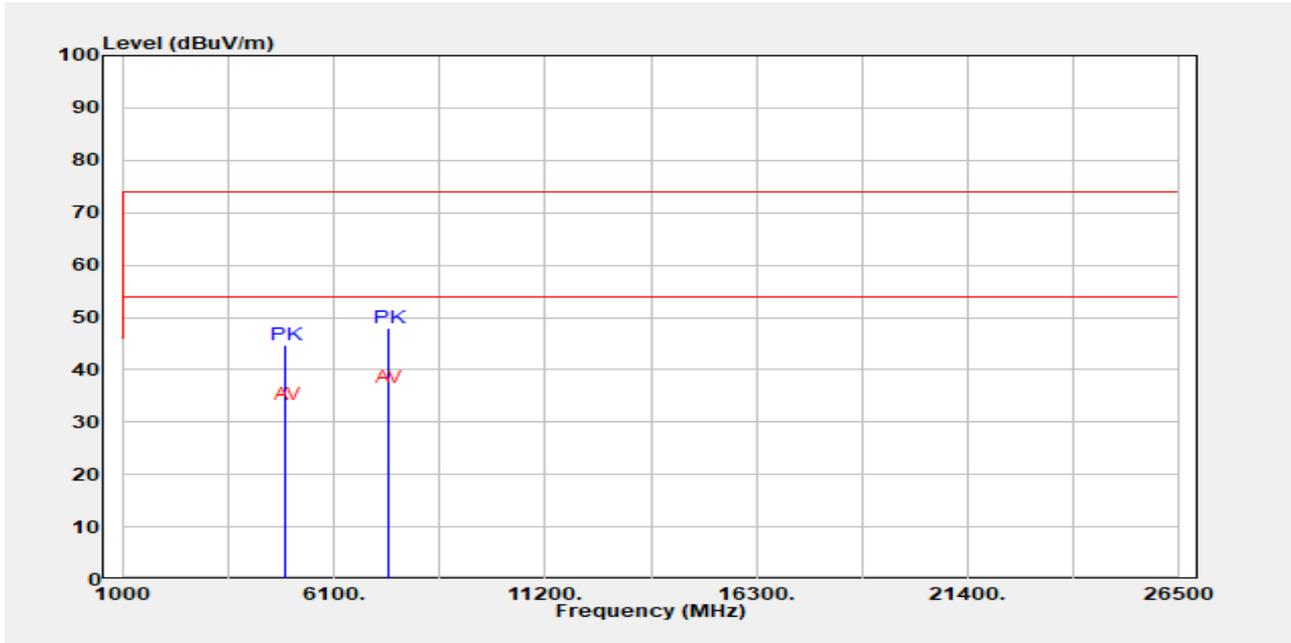
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 | Peak | 42.08 | 2.71 | 44.79 | 74.00 | -29.21 |
| 4924.00 | Average | 30.57 | 2.71 | 33.28 | 54.00 | -20.72 |
| 7386.00 | Peak | 40.56 | 7.42 | 47.98 | 74.00 | -26.02 |
| 7386.00 | Average | 29.23 | 7.42 | 36.65 | 54.00 | -17.35 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

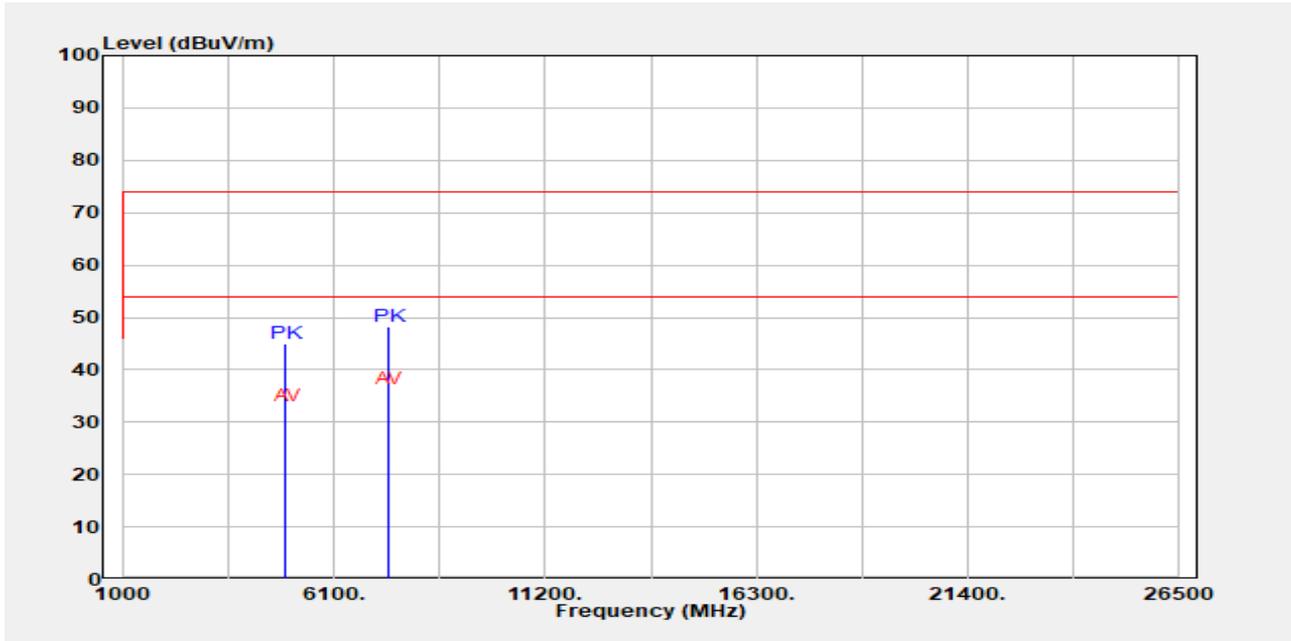
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 | Peak | 42.17 | 2.71 | 44.88 | 74.00 | -29.12 |
| 4924.00 | Average | 30.47 | 2.71 | 33.18 | 54.00 | -20.82 |
| 7386.00 | Peak | 40.69 | 7.42 | 48.11 | 74.00 | -25.89 |
| 7386.00 | Average | 28.78 | 7.42 | 36.20 | 54.00 | -17.80 |

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

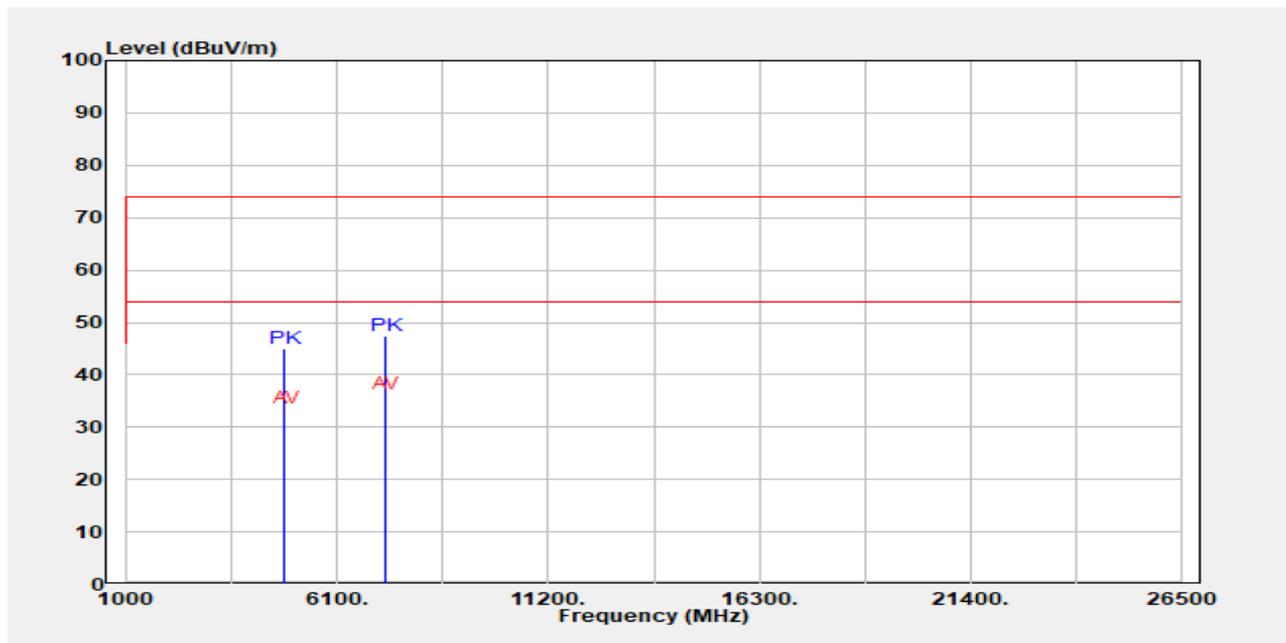
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4824.00 | Peak | 42.54 | 2.42 | 44.96 | 74.00 | -29.04 |
| 4824.00 | Average | 31.23 | 2.42 | 33.65 | 54.00 | -20.35 |
| 7236.00 | Peak | 40.32 | 7.06 | 47.38 | 74.00 | -26.62 |
| 7236.00 | Average | 29.13 | 7.06 | 36.19 | 54.00 | -17.81 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

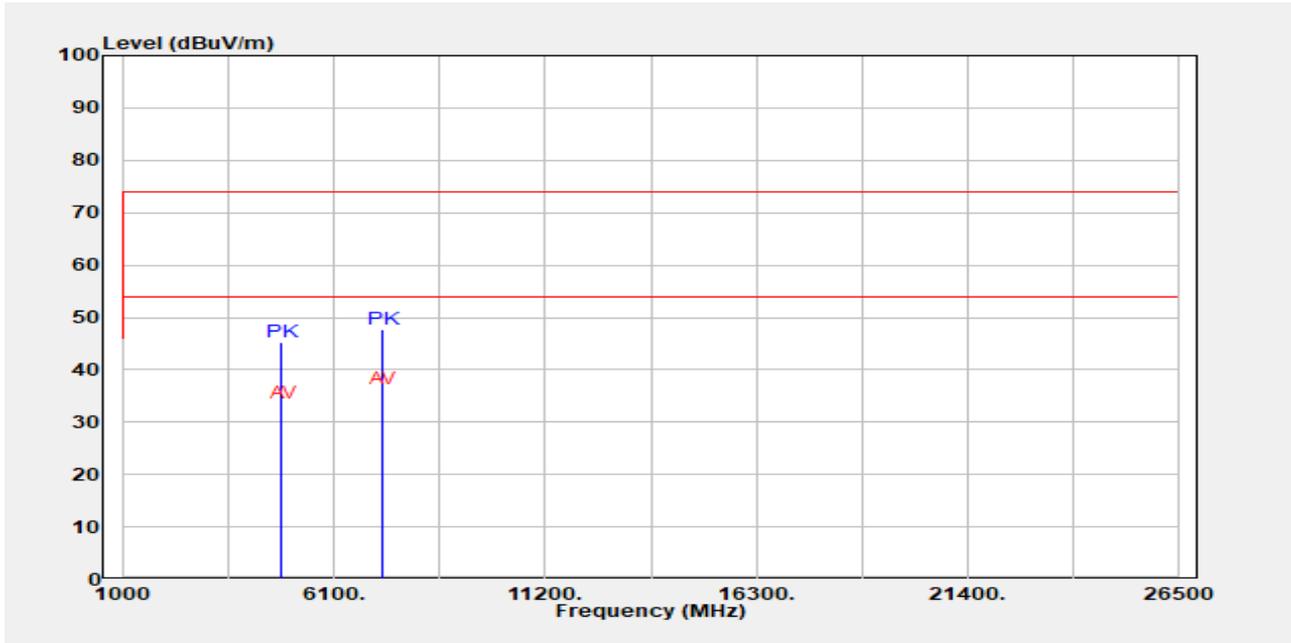
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4824.00 | Peak | 42.89 | 2.42 | 45.31 | 74.00 | -28.69 |
| 4824.00 | Average | 31.25 | 2.42 | 33.67 | 54.00 | -20.33 |
| 7236.00 | Peak | 40.54 | 7.06 | 47.60 | 74.00 | -26.40 |
| 7236.00 | Average | 29.29 | 7.06 | 36.35 | 54.00 | -17.65 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

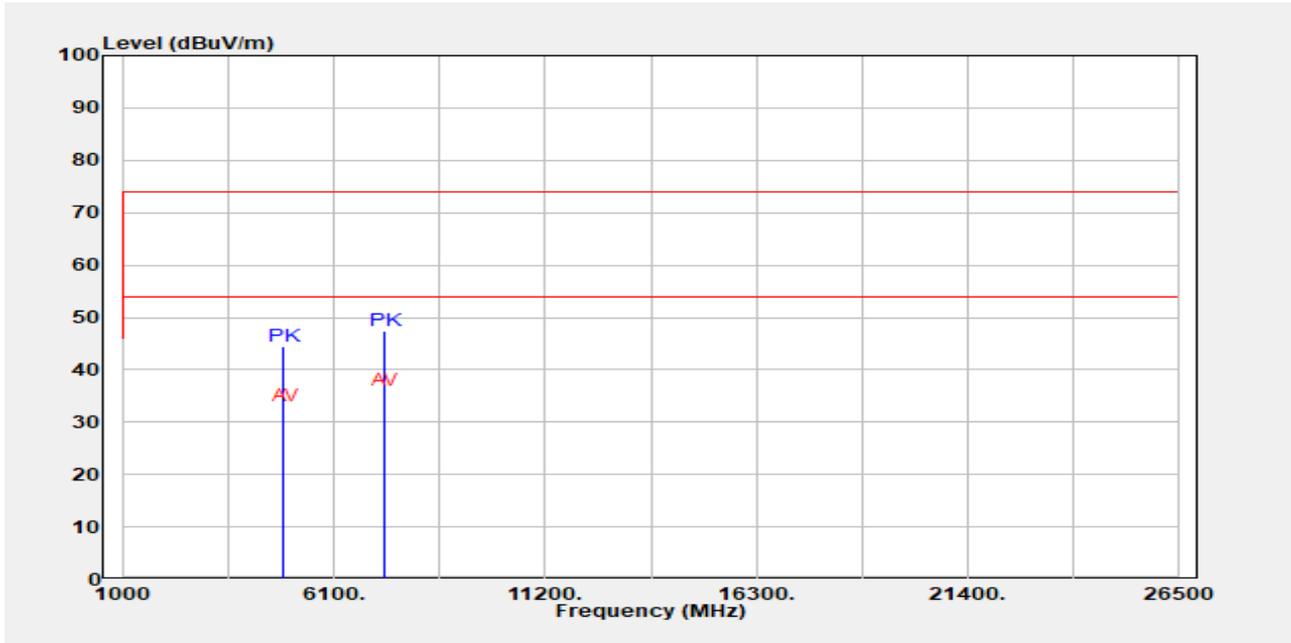
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 4874.00 | Peak | 41.92 | 2.54 | 44.46 | 74.00 | -29.54 |
| 4874.00 | Average | 30.53 | 2.54 | 33.07 | 54.00 | -20.93 |
| 7311.00 | Peak | 40.11 | 7.19 | 47.30 | 74.00 | -26.70 |
| 7311.00 | Average | 28.94 | 7.19 | 36.13 | 54.00 | -17.87 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

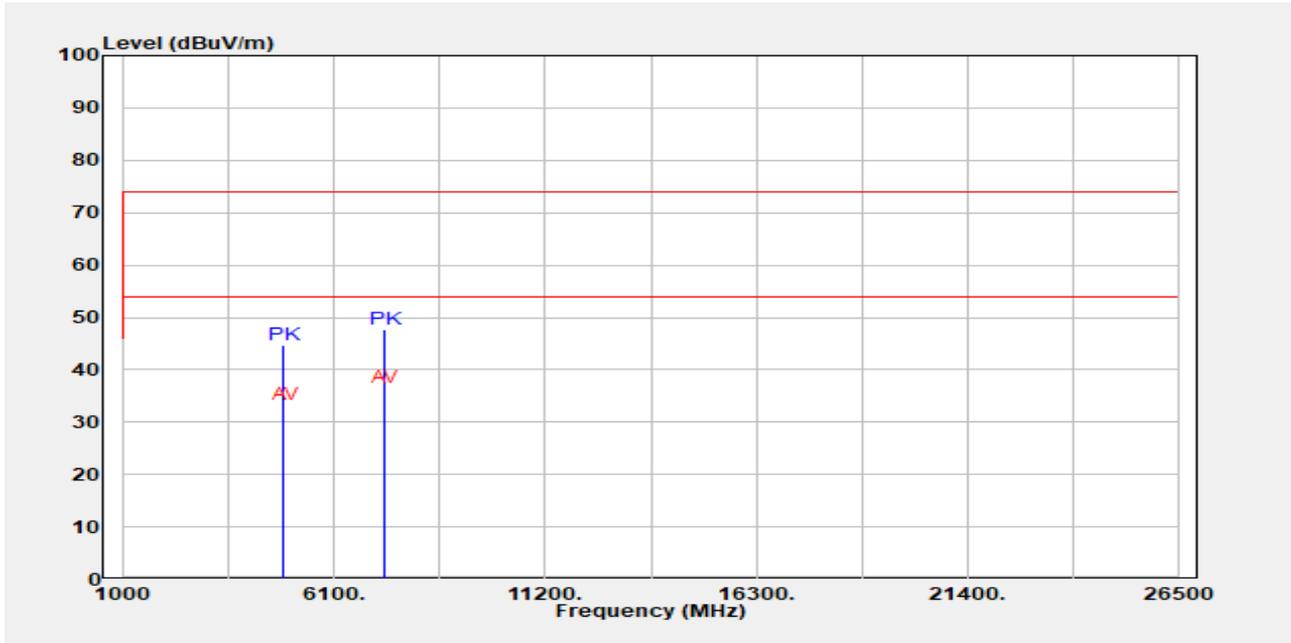
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 | Peak | 42.17 | 2.54 | 44.71 | 74.00 | -29.29 |
| 4874.00 | Average | 30.76 | 2.54 | 33.30 | 54.00 | -20.70 |
| 7311.00 | Peak | 40.62 | 7.19 | 47.81 | 74.00 | -26.19 |
| 7311.00 | Average | 29.31 | 7.19 | 36.50 | 54.00 | -17.50 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

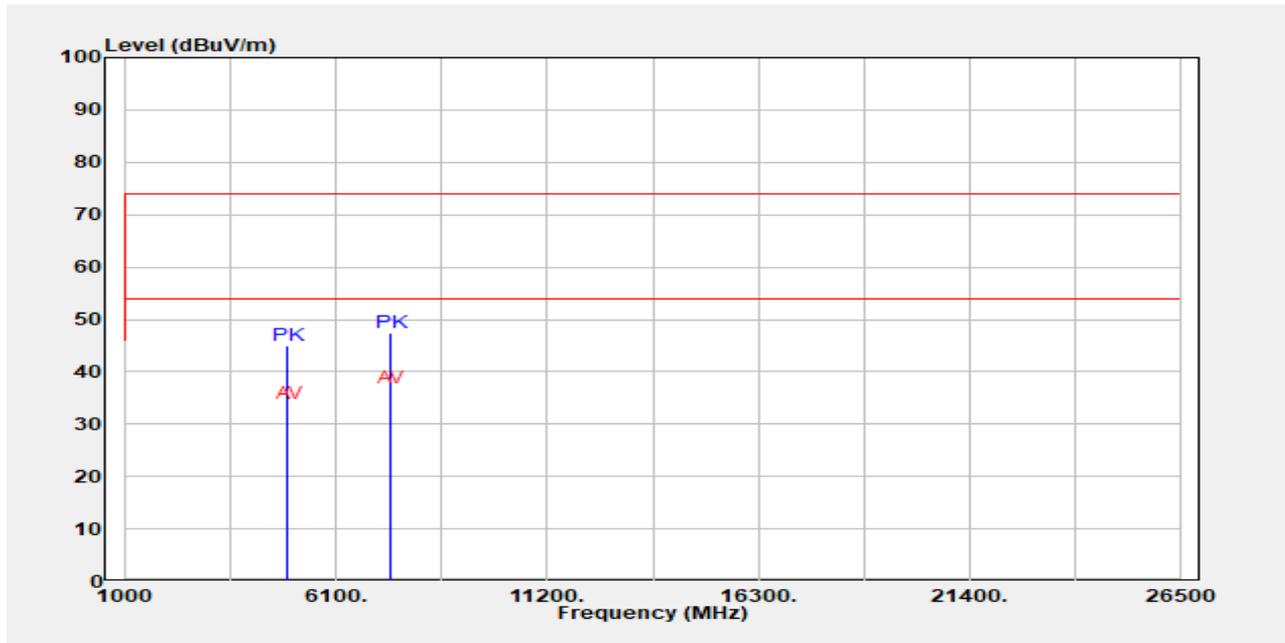
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 | Peak | 42.18 | 2.71 | 44.89 | 74.00 | -29.11 |
| 4924.00 | Average | 31.04 | 2.71 | 33.75 | 54.00 | -20.25 |
| 7386.00 | Peak | 40.14 | 7.42 | 47.56 | 74.00 | -26.44 |
| 7386.00 | Average | 29.32 | 7.42 | 36.74 | 54.00 | -17.26 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

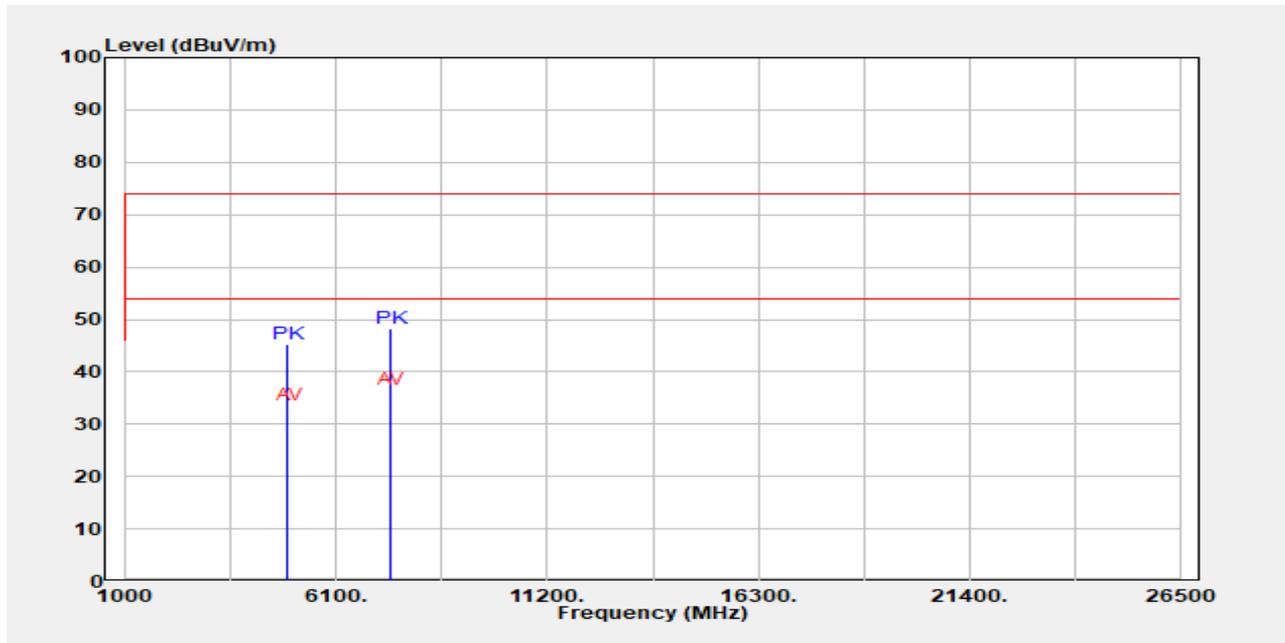
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Report Number :TERF2501000383ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-01-24
 Temp./Humi. :25.2°C/53%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| 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 | Peak | 42.58 | 2.71 | 45.29 | 74.00 | -28.71 |
| 4924.00 | Average | 30.87 | 2.71 | 33.58 | 54.00 | -20.42 |
| 7386.00 | Peak | 40.71 | 7.42 | 48.13 | 74.00 | -25.87 |
| 7386.00 | Average | 29.18 | 7.42 | 36.60 | 54.00 | -17.40 |

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

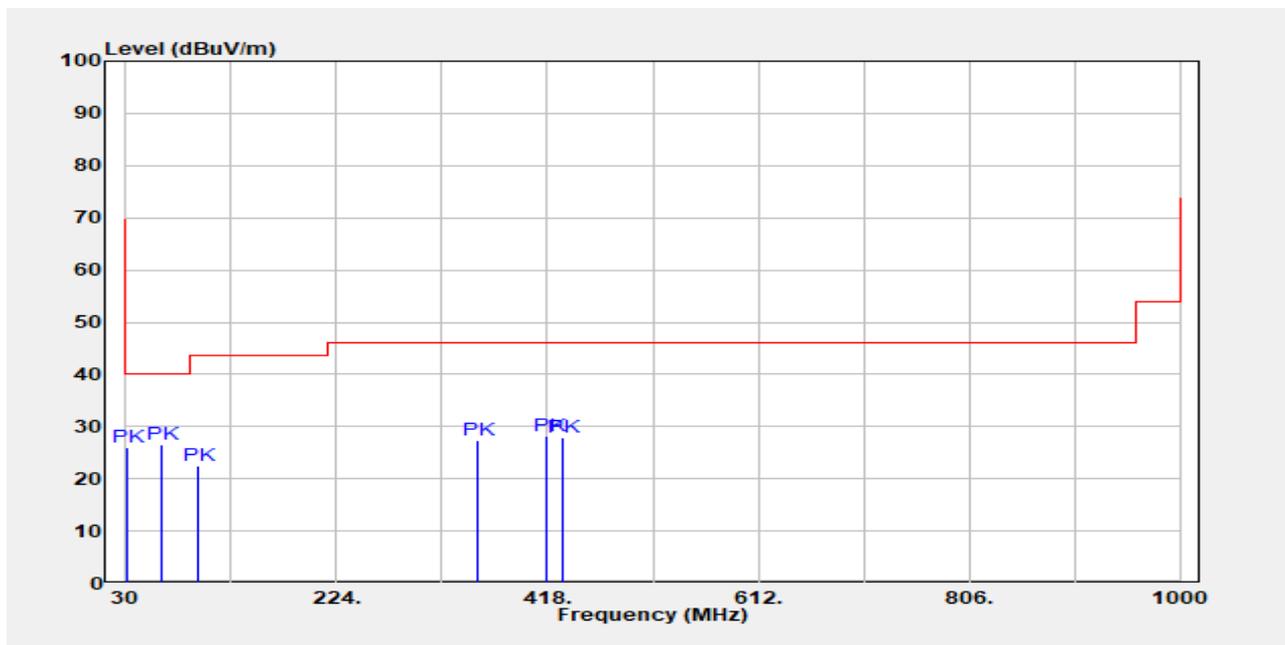
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Spot Check

Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-02-05
 Temp./Humi. :23.8°C/56%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



| 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 |
|--------------|------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 30.97 | Peak | 40.35 | -14.29 | 26.06 | 40.00 | -13.94 |
| 62.01 | Peak | 40.09 | -13.52 | 26.57 | 40.00 | -13.43 |
| 95.96 | Peak | 40.29 | -17.87 | 22.42 | 43.50 | -21.08 |
| 353.01 | Peak | 37.68 | -10.41 | 27.27 | 46.00 | -18.73 |
| 418.00 | Peak | 36.75 | -8.56 | 28.19 | 46.00 | -17.81 |
| 432.55 | Peak | 35.95 | -8.01 | 27.94 | 46.00 | -18.06 |

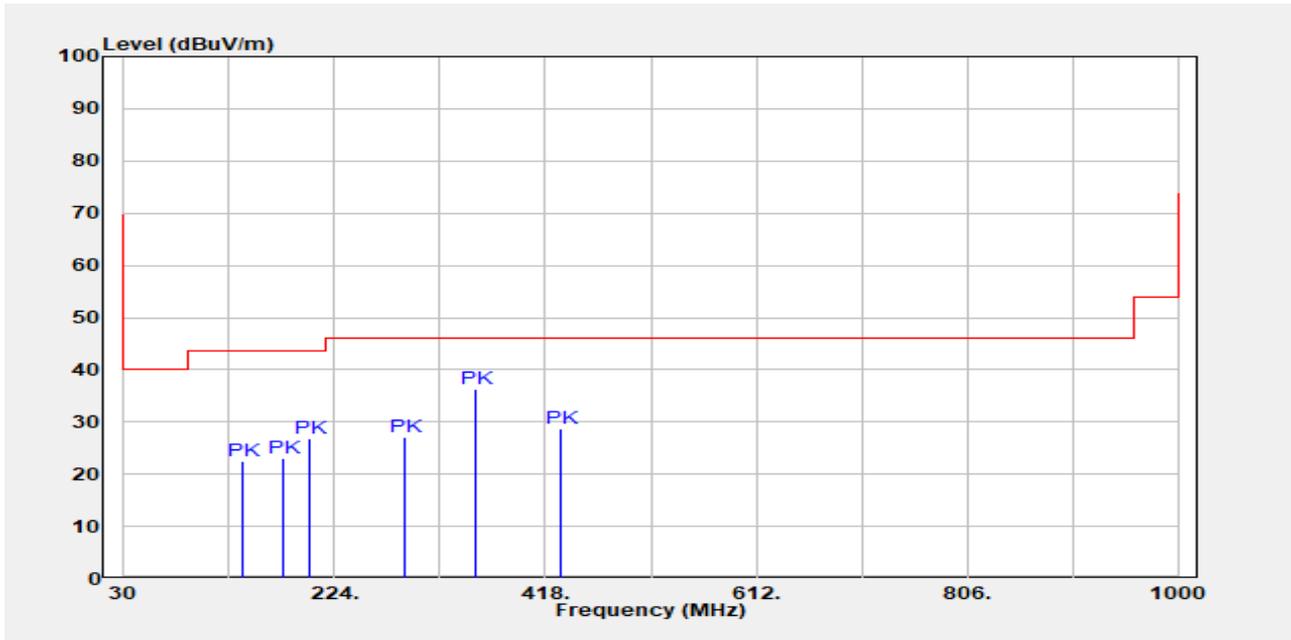
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Report Number :TERF2501000383ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-02-05
 Temp./Humi. :23.8°C/56%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBUV | Factor dB | Actual FS dBUV/m | Limit @3m dBUV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 138.64 | Peak | 35.67 | -13.18 | 22.49 | 43.50 | -21.01 |
| 176.47 | Peak | 36.59 | -13.52 | 23.07 | 43.50 | -20.43 |
| 200.72 | Peak | 42.46 | -15.69 | 26.77 | 43.50 | -16.73 |
| 288.02 | Peak | 38.88 | -11.91 | 26.97 | 46.00 | -19.03 |
| 353.01 | Peak | 46.70 | -10.41 | 36.29 | 46.00 | -9.71 |
| 431.58 | Peak | 36.66 | -8.07 | 28.59 | 46.00 | -17.41 |

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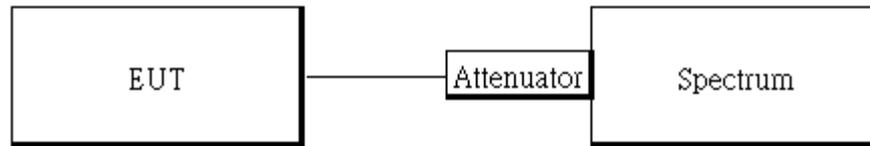
12 POWER SPECTRAL DENSITY

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.

12.2 Test Setup



12.3 Measurement Procedure

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

Note:

1. When the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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12.4 Power spectral density

| POWER DENSITY 802.11b | | | | |
|-----------------------|------------|-------------------|---------------------|--------|
| Freq. (MHz) | Ch1 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -4.33 | -4.33 | 8.00 | PASS |
| 2437 | -4.43 | -4.43 | 8.00 | PASS |
| 2462 | -4.72 | -4.72 | 8.00 | PASS |

| POWER DENSITY 802.11g | | | | |
|-----------------------|------------|-------------------|---------------------|--------|
| Freq. (MHz) | Ch1 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -9.14 | -9.14 | 8.00 | PASS |
| 2437 | -6.94 | -6.94 | 8.00 | PASS |
| 2462 | -11.5 | -11.50 | 8.00 | PASS |

| POWER DENSITY 802.11n HT20 | | | | |
|----------------------------|------------|-------------------|---------------------|--------|
| Freq. (MHz) | Ch1 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -11.28 | -11.28 | 8.00 | PASS |
| 2437 | -7.34 | -7.34 | 8.00 | PASS |
| 2462 | -12.3 | -12.30 | 8.00 | PASS |

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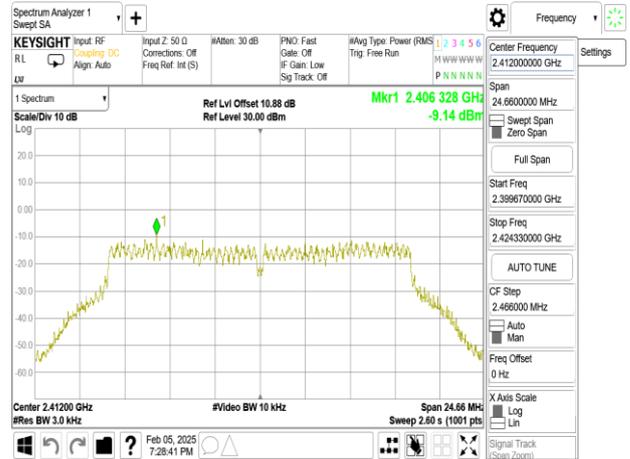
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802.11b_20MHz_Chain1_2412MHz



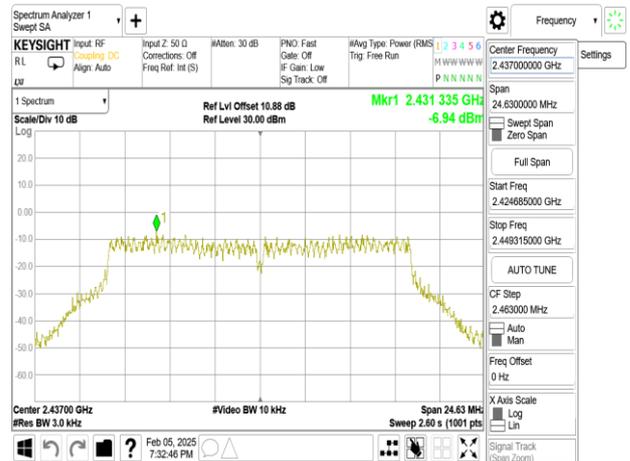
802.11g_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain1_2437MHz



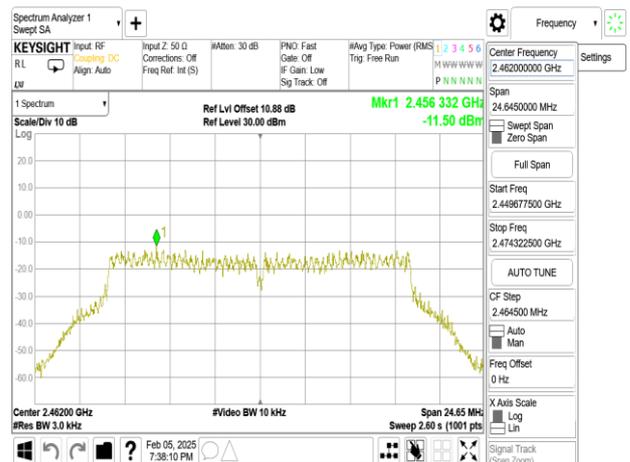
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz



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