

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

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

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.: G6PPP

Report Number: TERF2503001002ER

FCC ID P27-G6PPP

Date of EUT Received: March 10, 2025

Date of Test: March 10, 2025~March 31, 2025

Issue Date: May 5, 2025

Approved By _____

Jazz Huang

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
TERF2503001002ER	00	Original	April 18, 2025	Susan Lin	
TERF2503001002ER	01	Update section 4.2	May 5, 2025	Susan Lin	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	wireless device
Brand Name:	N/A
Model No.:	G6PPP
EUT Series No.:	53061XHA801342 (Conducted) 53061XHA80133U (Conduction & Radiated)
Power Supply:	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	20.73	17.98	DSSS
802.11g	2412~2462	11	24.76	17.85	OFDM
802.11n_HT20	2412~2462	11	24.70	17.26	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	2412~2462	2.49
PIFA	Ant 2	2412~2462	3.43

Note:

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

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02
 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.

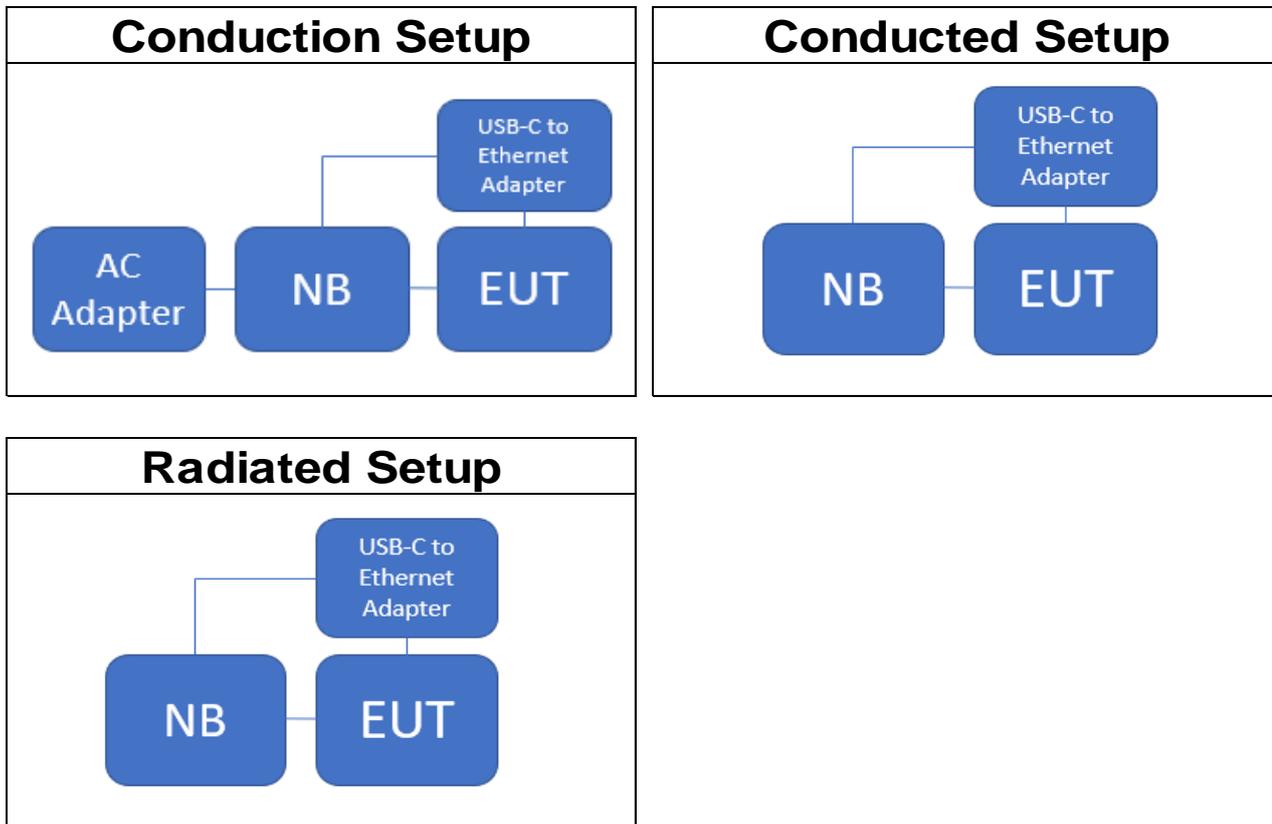
2.4.2 For all conducted test items:

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.

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2.5 Test Configuration



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)
Notebook	Lenovo	L480	PF-1S9Q32 19/07	N/A	N/A
AC Adapter	Lenovo	ADLX45YCC3A	8SSA10E75843C15 G8A4G9HC	N/A	N/A
LAN Cable	Ronever	VAA-03	N/A	N/A	N/A
USB-C to Ethernet Adapter	Lenovo	RTL8153-04	DLB03FNK	N/A	N/A
USB Cable	N/A	N/A	N/A	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)
LAN Cable	Mediabridge	Cat5e	N/A	N/A	N/A
USB-C to Ethernet Adapter	Lenovo	RTL8153-04	DLB03FNK	N/A	N/A
USB Cable	N/A	N/A	N/A	N/A	N/A
Notebook	Lenovo	L480	PF-1S9Q32 19/07	N/A	N/A

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Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L480	PF-1S9Q32 19/07	N/A	N/A
LAN Cable	Ronever	VAA-03	N/A	N/A	N/A
USB-C to Ethernet Adapter	Lenovo	RTL8153-04	DLB03FNK	N/A	N/A
USB Cable	N/A	N/A	N/A	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	Multi Transmission Spatial				
V	802.11 b	V	Ch0	V	Ch1		Ch2		Ch3	V	1TX		2TX
V	802.11 g	V	Ch0	V	Ch1		Ch2		Ch3	V	1TX		2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3	V	1TX		2TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		1TX		2TX

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

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

CONDUCTED 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 BANDEGE TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,6,9,10,11	DSSS	1	Ch1
802.11g	1 to 11	1,2,3,6,8,9,10,11	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

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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
802.11n20	1 to 11	1,6,11	OFDM	MCS0	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
	+/-	4.1	dB	30MHz - 1000MHz
	+/-	3.37	dB	1GHz - 18GHz
	+/-	3.83	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.1	dB	30MHz - 1000MHz
	+/-	3.37	dB	1GHz - 18GHz
	+/-	3.83	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	1.71	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.84	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
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	21	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	VULB9160	443	01/23/2025	01/22/2026
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	ESCI 7	100759	08/28/2024	08/27/2025
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	02/20/2025	02/19/2026
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

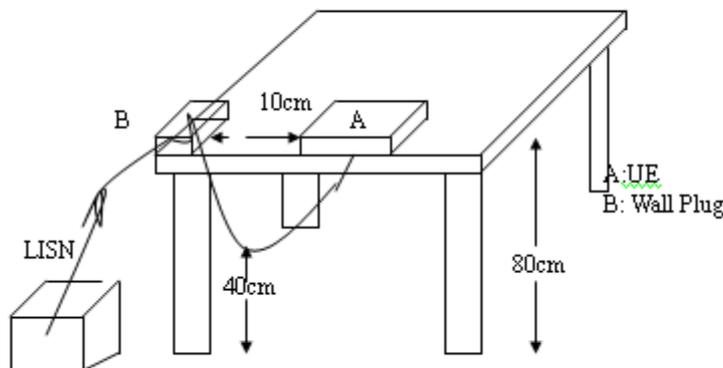
Note

- 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.

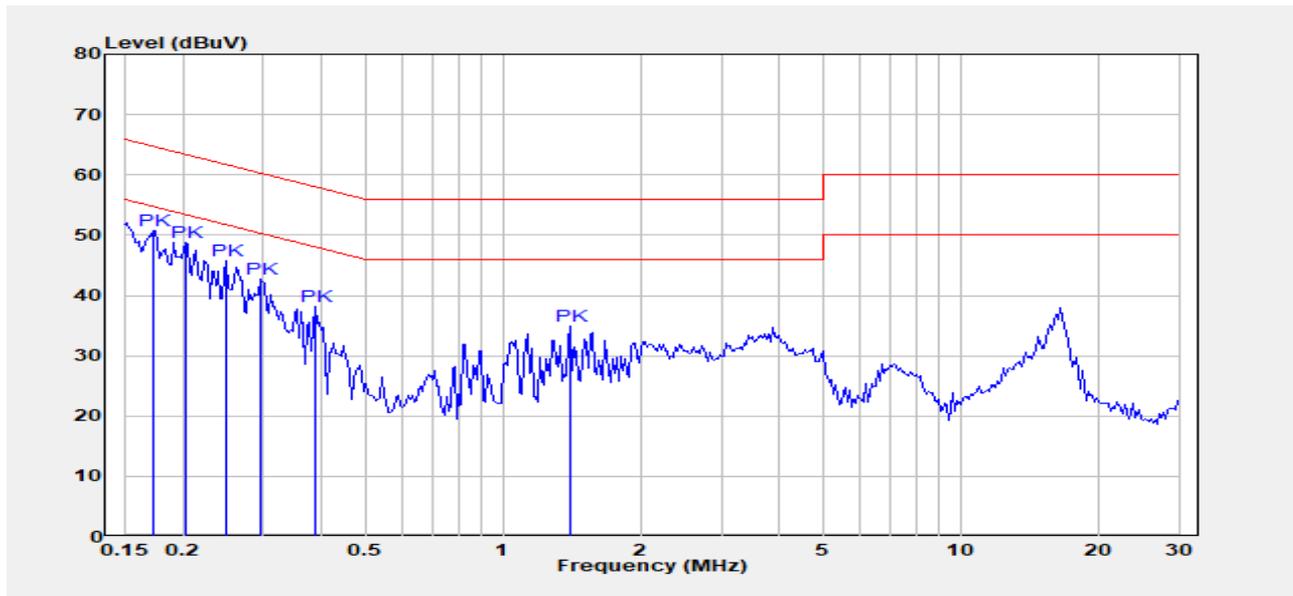
Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2503001002ER	Test Site	:Conduction 1
Operation Mode	:WLAN 2.4G	Test Date	:2025-03-18
Power	:120V/60Hz	Temp./Humi.	:21.5°C/58%
Probe	:L	Engineer	:GN Lin
Note:	:		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV	Limit dBuV	Margin dB
0.172	Peak	40.54	10.13	50.67	64.86	-14.18
0.202	Peak	38.63	10.13	48.76	63.54	-14.78
0.249	Peak	35.63	10.14	45.76	61.78	-16.01
0.296	Peak	32.47	10.14	42.61	60.37	-17.75
0.389	Peak	27.92	10.15	38.07	58.08	-20.00
1.403	Peak	24.63	10.20	34.82	56.00	-21.18

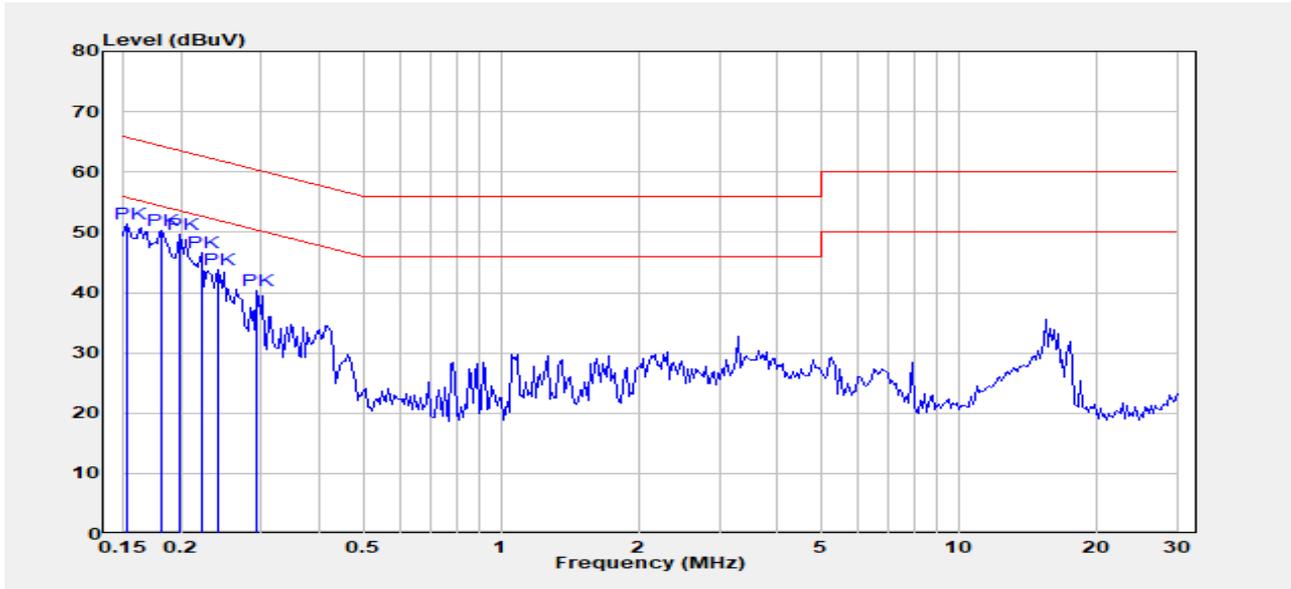
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Report Number :TERF2503001002ER
 Operation Mode :WLAN 2.4G
 Power :120V/60Hz
 Probe :N
 Note :

Test Site :Conduction 1
 Test Date :2025-03-18
 Temp./Humi. :21.5°C/58%
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.153	Peak	41.29	10.12	51.41	65.82	-14.42
0.182	Peak	40.26	10.12	50.38	64.42	-14.03
0.200	Peak	39.44	10.12	49.56	63.62	-14.07
0.222	Peak	36.59	10.12	46.72	62.74	-16.03
0.242	Peak	33.61	10.13	43.73	62.04	-18.31
0.292	Peak	30.19	10.14	40.33	60.46	-20.13

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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.

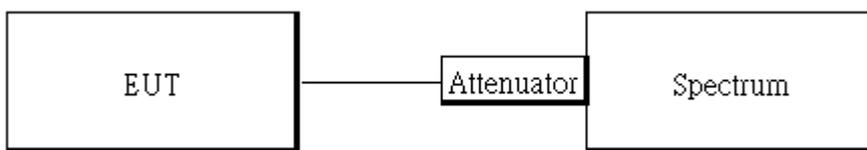
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

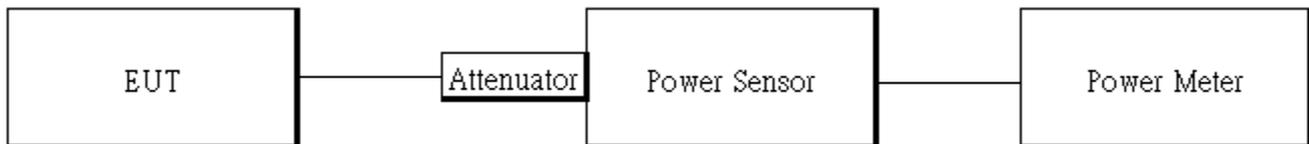
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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.**

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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	99.14	0.04	0.19	0.01
802.11g	98.33	0.07	0.48	0.01
802.11n_20	98.21	0.08	0.52	0.01

8.4.2 Duty Cycle test plots

802.11b_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2412MHz



802.11g_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	67	79.07	18.98	30.00	PASS
2	2417	1	72	106.17	20.26	30.00	PASS
6	2437	1	74	118.30	20.73	30.00	PASS
9	2452	1	73	113.76	20.56	30.00	PASS
10	2457	1	72	106.66	20.28	30.00	PASS
11	2462	1	59	50.23	17.01	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	67	40.53	16.08	30.00	PASS
2	2417	1	72	55.69	17.46	30.00	PASS
6	2437	1	74	62.77	17.98	30.00	PASS
9	2452	1	73	59.40	17.74	30.00	PASS
10	2457	1	72	55.69	17.46	30.00	PASS
11	2462	1	59	25.22	14.02	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	59	176.60	22.47	30.00	PASS
2	2417	6	64	232.81	23.67	30.00	PASS
3	2422	6	71	276.06	24.41	30.00	PASS
6	2437	6	74	299.23	24.76	30.00	PASS
8	2447	6	74	296.48	24.72	30.00	PASS
9	2452	6	67	246.60	23.92	30.00	PASS
10	2457	6	61	201.37	23.04	30.00	PASS
11	2462	6	46	89.74	19.53	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	59	26.26	14.19	30.00	PASS
2	2417	6	64	35.42	15.49	30.00	PASS
3	2422	6	71	49.12	16.91	30.00	PASS
6	2437	6	74	60.85	17.84	30.00	PASS
8	2447	6	74	60.99	17.85	30.00	PASS
9	2452	6	67	41.14	16.14	30.00	PASS
10	2457	6	61	30.64	14.86	30.00	PASS
11	2462	6	46	13.56	11.32	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	57	156.31	21.94	30.00	PASS
2	2417	MCS0	66	244.34	23.88	30.00	PASS
3	2422	MCS0	70	261.82	24.18	30.00	PASS
4	2427	MCS0	72	288.40	24.60	30.00	PASS
6	2437	MCS0	72	295.12	24.70	30.00	PASS
8	2447	MCS0	72	279.25	24.46	30.00	PASS
9	2452	MCS0	68	244.91	23.89	30.00	PASS
10	2457	MCS0	59	168.27	22.26	30.00	PASS
11	2462	MCS0	41	77.45	18.89	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	57	24.09	13.82	30.00	PASS
2	2417	MCS0	66	39.89	16.01	30.00	PASS
3	2422	MCS0	70	42.94	16.33	30.00	PASS
4	2427	MCS0	72	53.19	17.26	30.00	PASS
6	2437	MCS0	72	52.83	17.23	30.00	PASS
8	2447	MCS0	72	51.74	17.14	30.00	PASS
9	2452	MCS0	68	41.96	16.23	30.00	PASS
10	2457	MCS0	59	26.84	14.29	30.00	PASS
11	2462	MCS0	41	9.88	9.95	30.00	PASS

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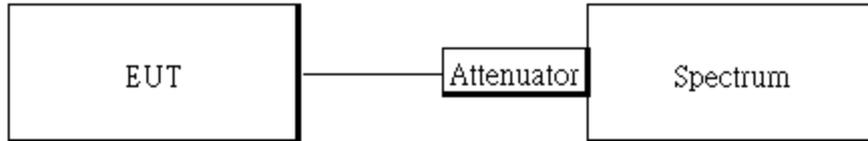
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9 EMISSION BANDWIDTH MEASUREMENT

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	9047	≥ 500	PASS
2437	9090	≥ 500	PASS
2462	8595	≥ 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16410	≥ 500	PASS
2437	16430	≥ 500	PASS
2462	16430	≥ 500	PASS

802.11n_HT_20M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17660	≥ 500	PASS
2437	17650	≥ 500	PASS
2462	17660	≥ 500	PASS

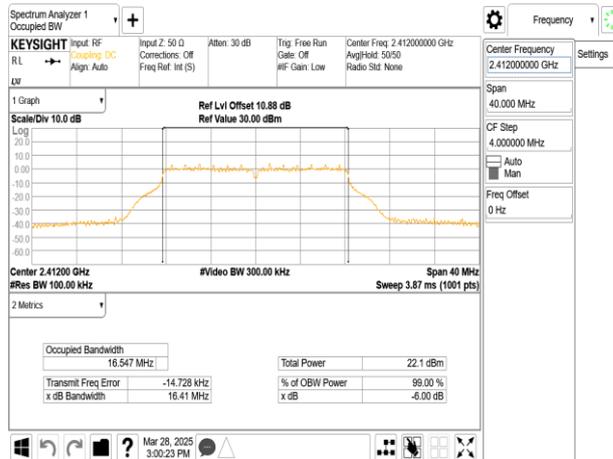
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802.11b_20MHz_Chain1_2412MHz



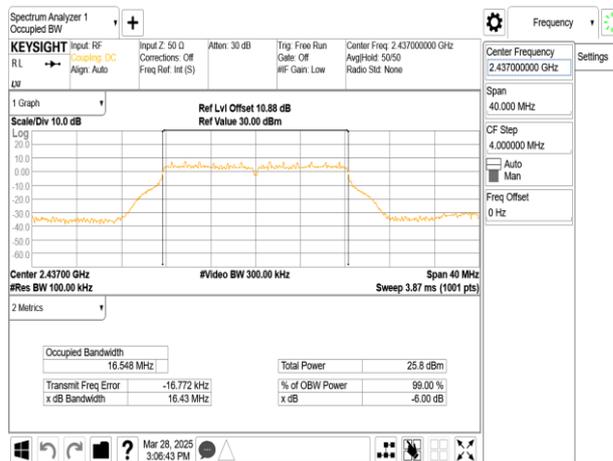
802.11g_20MHz_Chain1_2412MHz



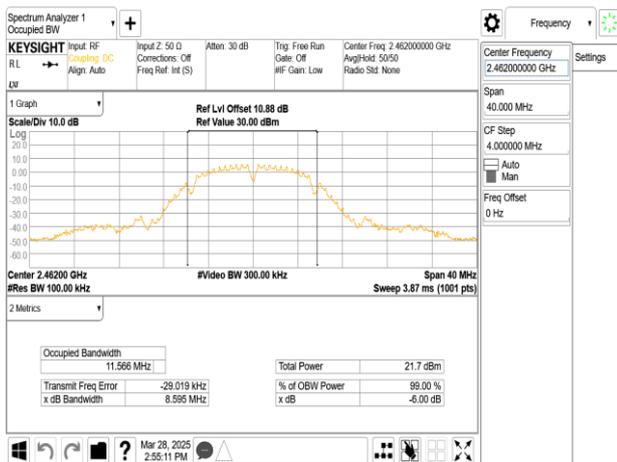
802.11b_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

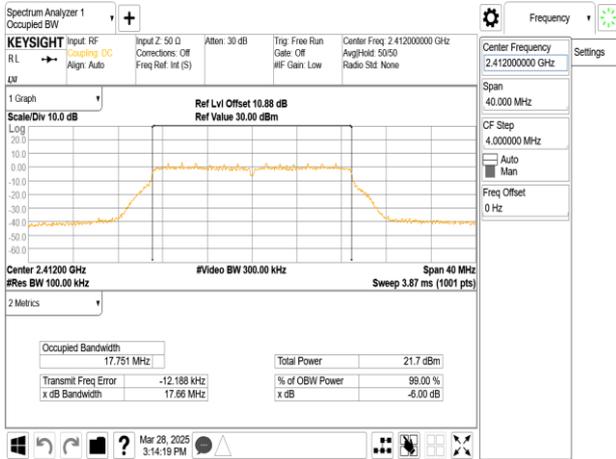


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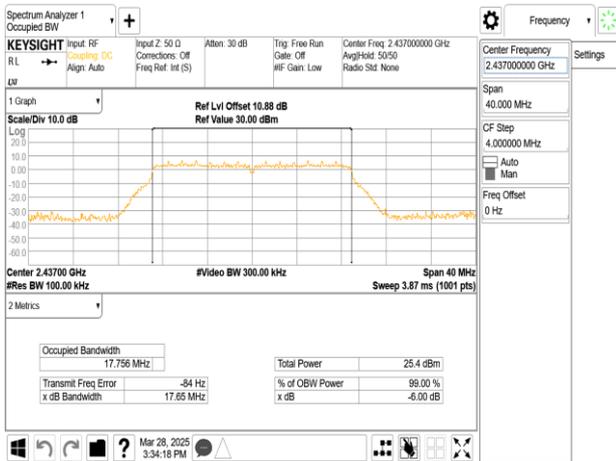
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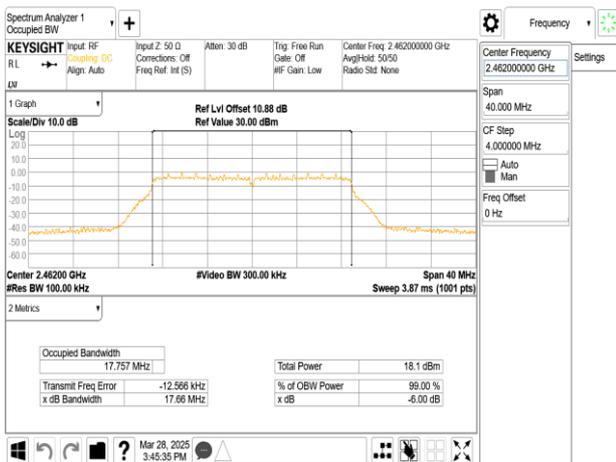
802.11n_20MHz_Chain1_2412MHz



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	11.83
2437	12.112
2462	11.675

802.11g Ch1

Freq. (MHz)	99% BW (MHz)
2412	17.144
2437	17.129
2462	17.14

802.11n_HT20M Ch1

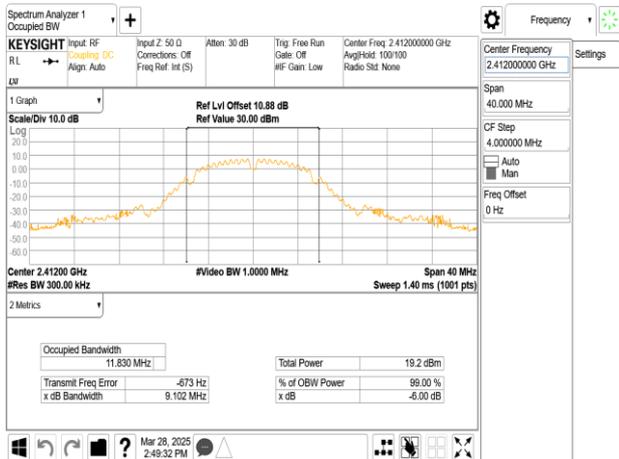
Freq. (MHz)	99% BW (MHz)
2412	18.218
2437	18.246
2462	18.232

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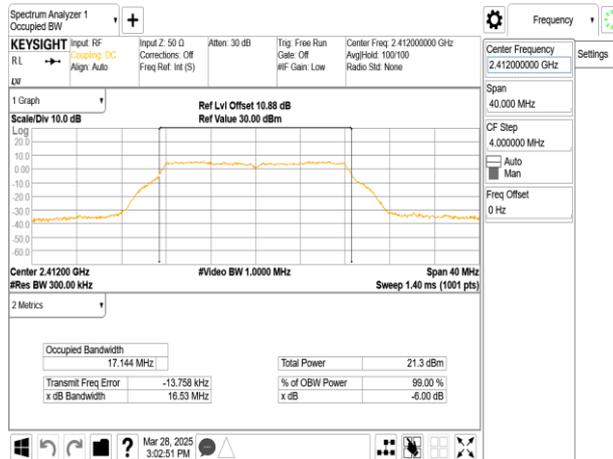
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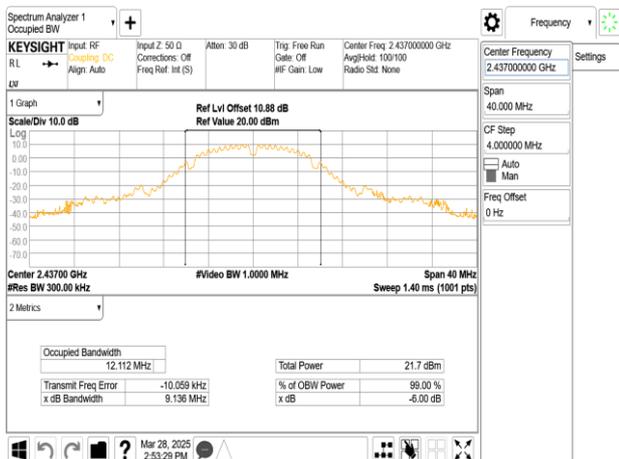
802.11b_20MHz_Chain1_2412MHz



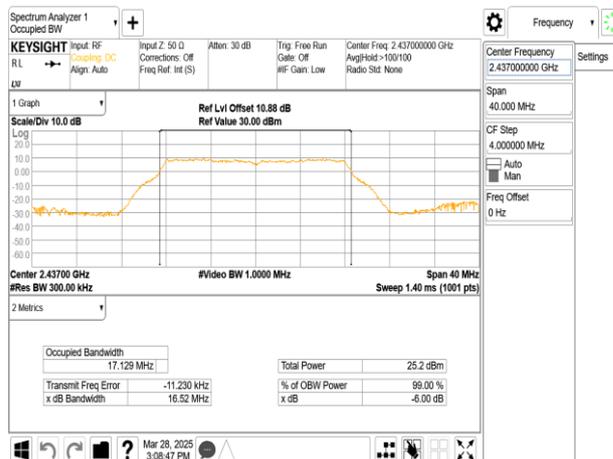
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802.11b_20MHz_Chain1_2437MHz



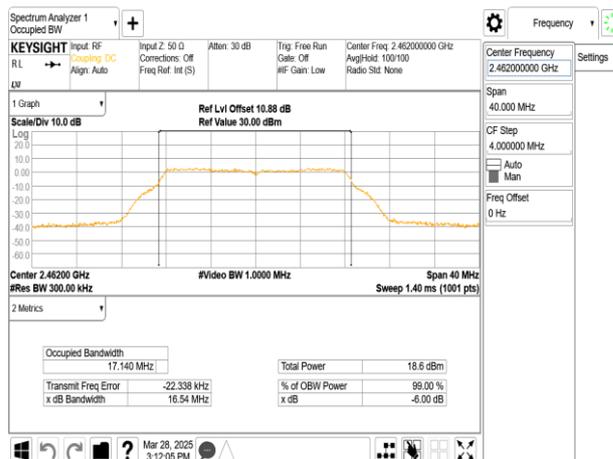
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

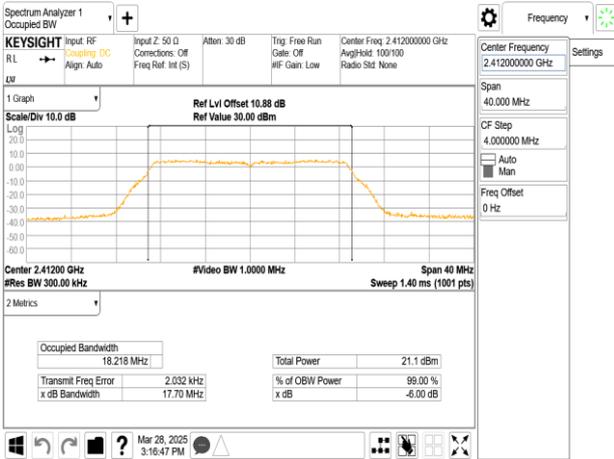


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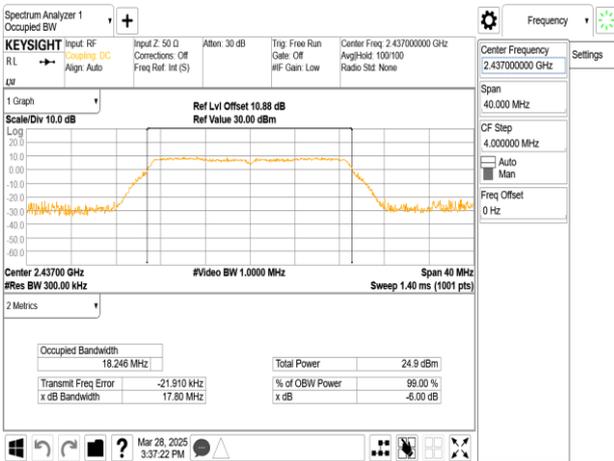
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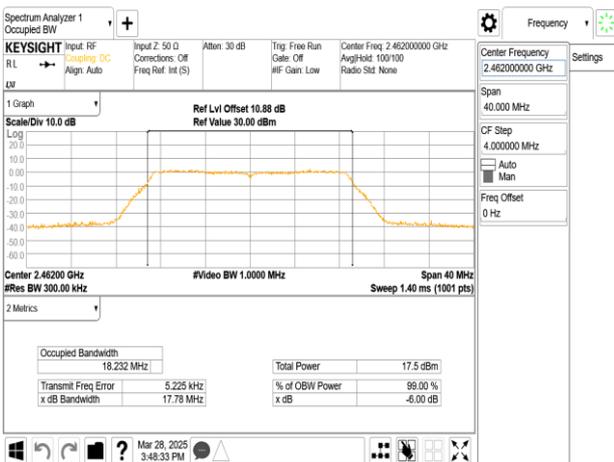
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2462MHz



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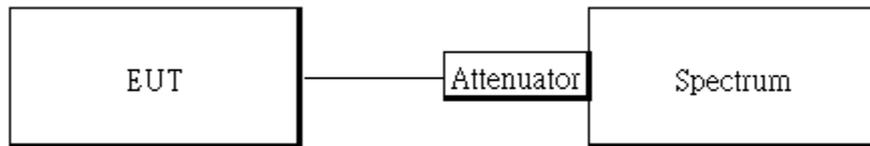
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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.

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	7.44	-12.56
2437	9.79	-10.21
2462	5.84	-14.16

802.11g Ch1

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.49	-16.51
2437	7.41	-12.59
2462	0.73	-19.27

802.11n_HT_20M Ch1

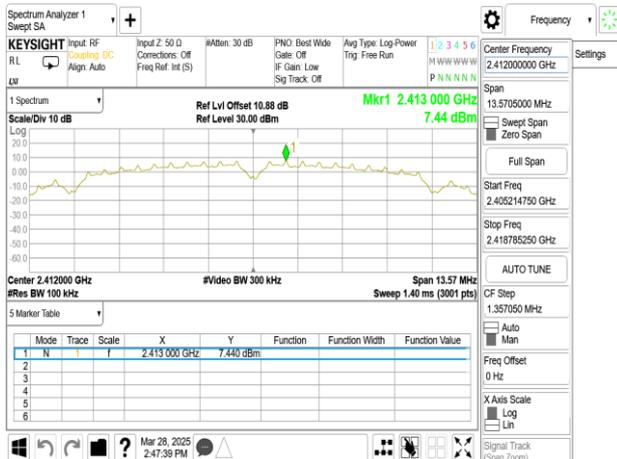
Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.82	-17.18
2437	6.64	-13.36
2462	-0.68	-20.68

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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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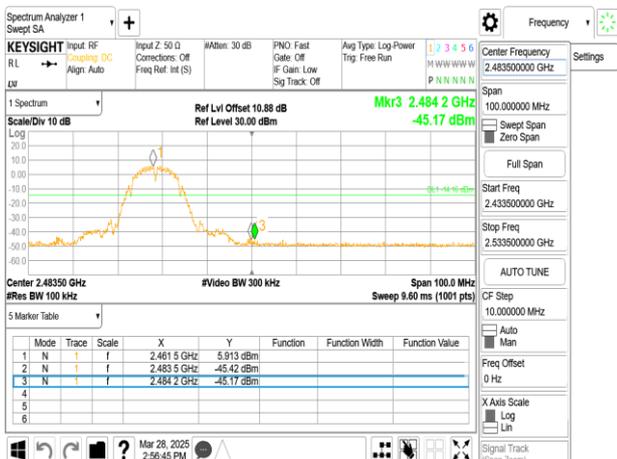
802.11b_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain1_2462MHz



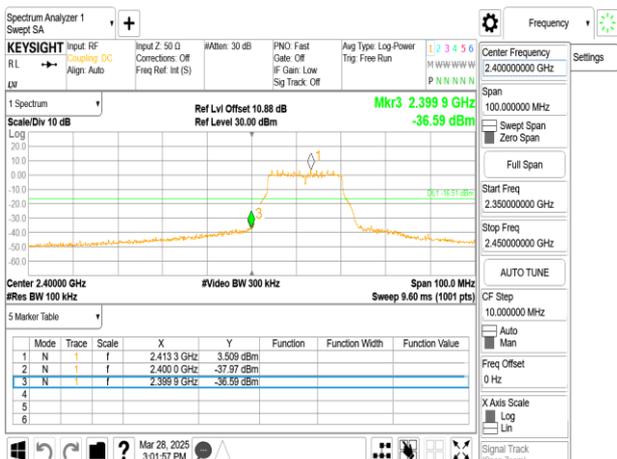
802.11b_20MHz_Chain1_2462MHz



802.11n_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2462MHz



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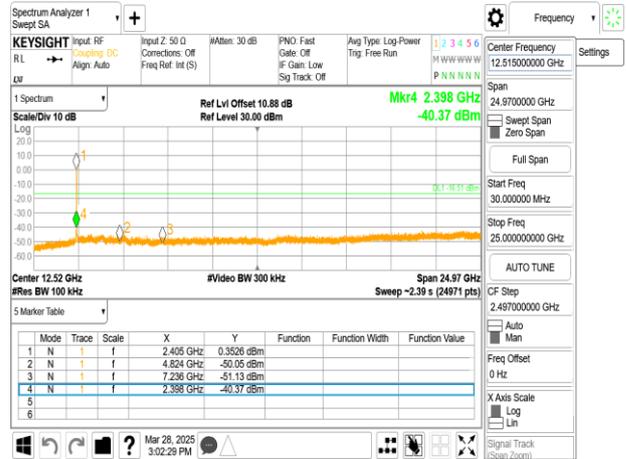
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802.11b_20MHz_Chain1_2412MHz



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

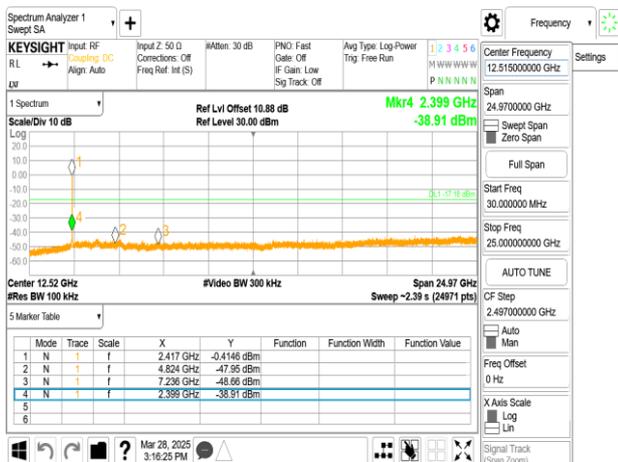


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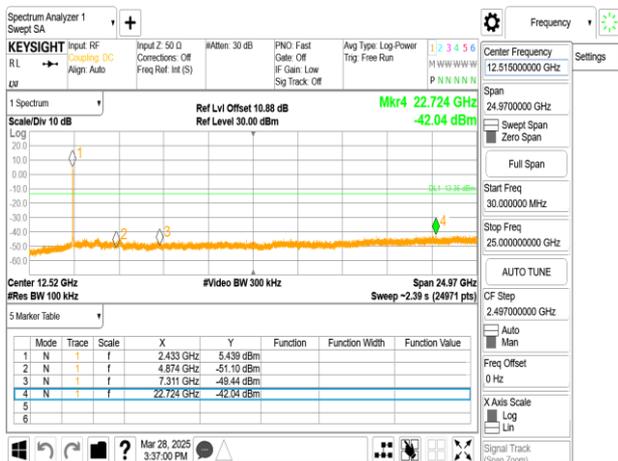
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802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2462MHz



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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:

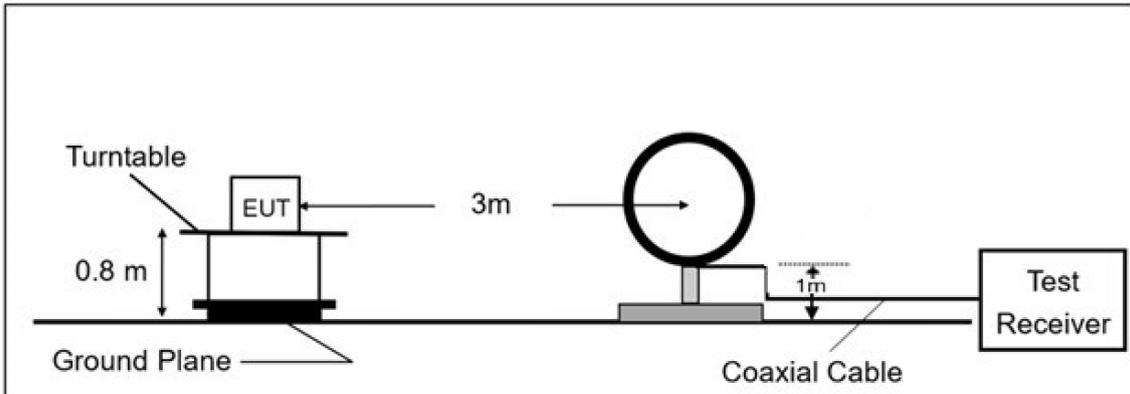
1. The lower limit shall apply at the transition frequencies.

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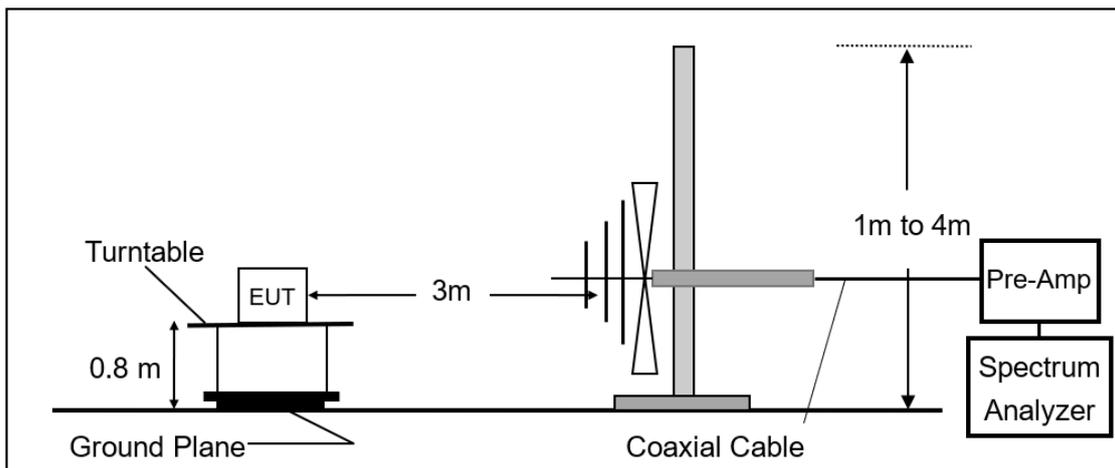
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11.2 Test Setup

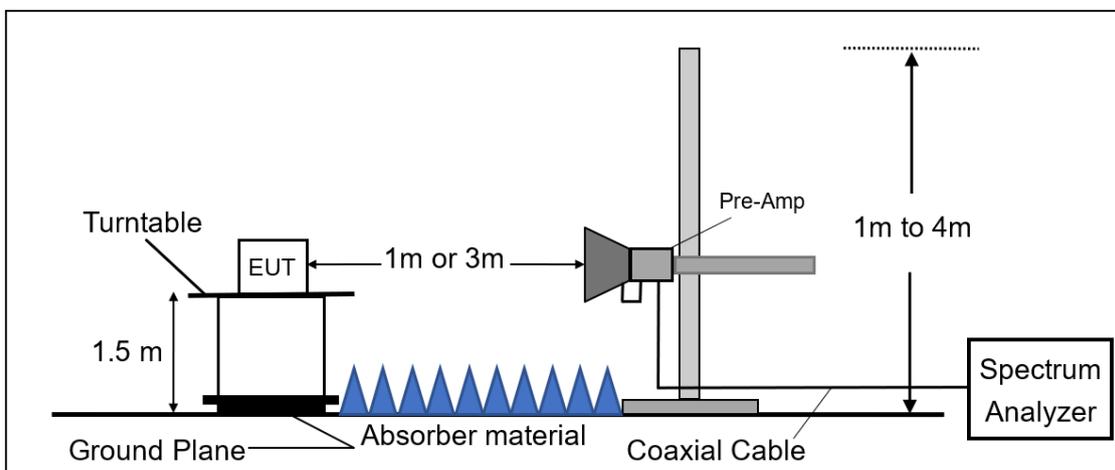
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 ≥ 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:

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

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RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(\mu\text{V}/\text{m})$

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

Factor(dB) = Antenna Factor(dB/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:

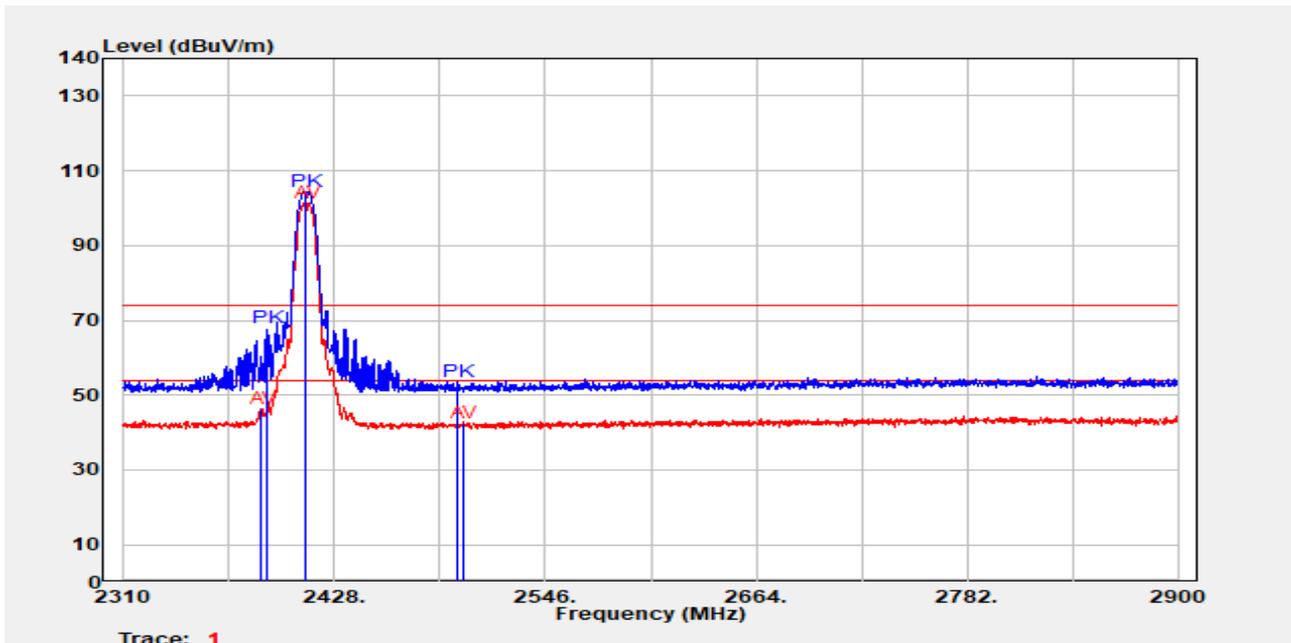
1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands*

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11.6.1 Radiated Band Edge Measurement Result

Report Number	:TERF2503001002ER	Test Site	:SAC 2
Operation Mode	:802.11b	Test Date	:2025-03-27
Test Frequency	:2412 MHz	Temp./Humi.	:24.7°C/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E1 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
2387.12	Average	51.01	-4.70	46.31	54.00	-7.69
2389.68	Peak	72.46	-4.70	67.76	74.00	-6.24
2412.00	Peak	109.30	-4.80	104.50	-	-
2412.00	Average	106.13	-4.80	101.33	-	-
2496.90	Peak	58.36	-4.89	53.47	74.00	-20.53
2500.04	Average	47.41	-4.86	42.55	54.00	-11.45

Duty Cycle=99.14%

Average Duty Factor=0 (dB)

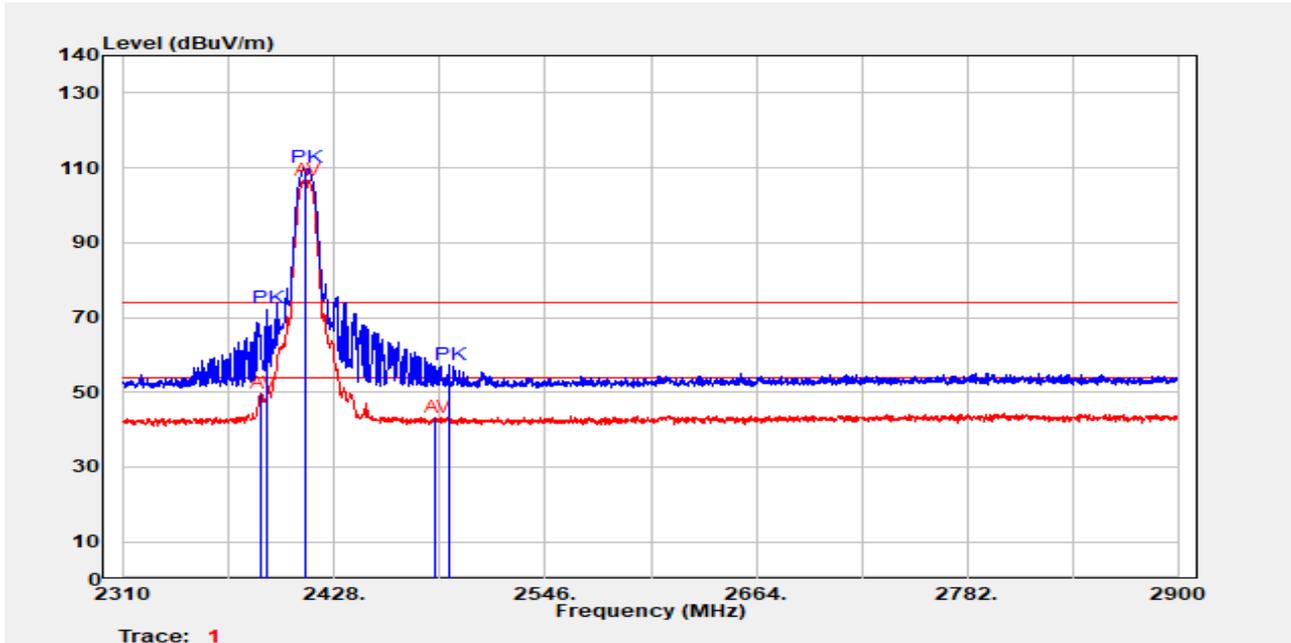
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2387.12	Average	54.44	-4.70	49.74	54.00	-4.26
2389.87	Peak	77.08	-4.70	72.38	74.00	-1.62
2412.00	Peak	114.65	-4.80	109.85	-	-
2412.00	Average	111.58	-4.80	106.78	-	-
2484.50	Average	48.23	-4.97	43.26	54.00	-10.74
2491.58	Peak	62.36	-4.94	57.42	74.00	-16.58

Duty Cycle=99.14%

Average Duty Factor=0 (dB)

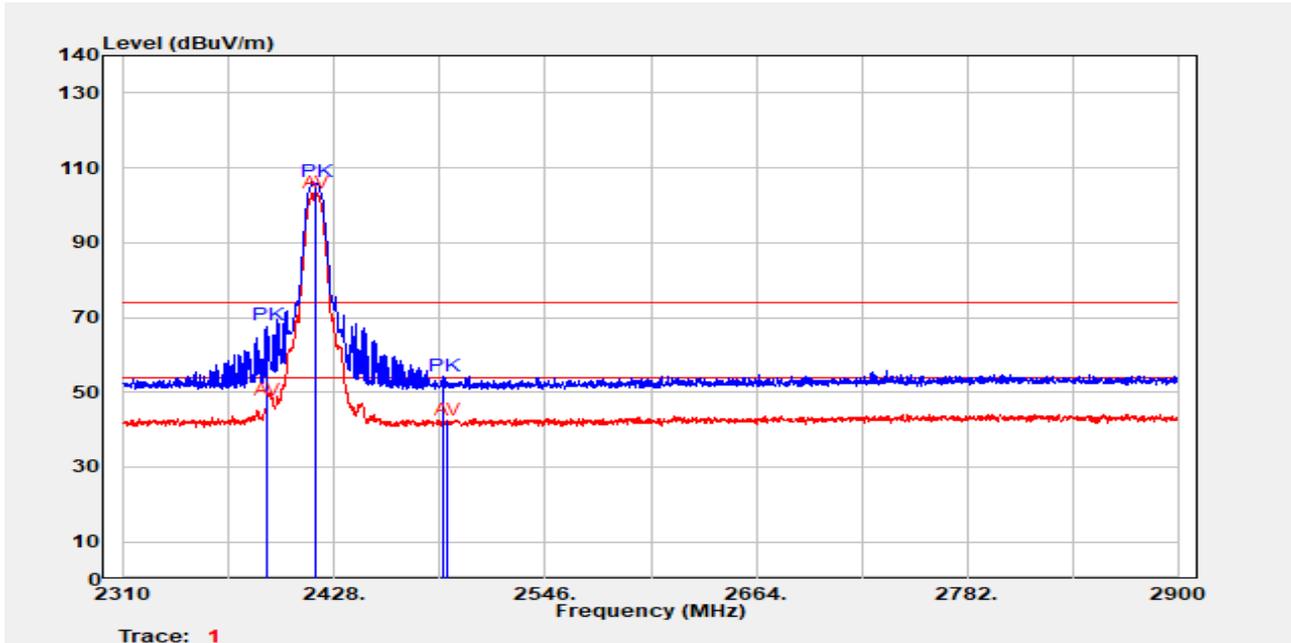
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2389.68	Peak	72.57	-4.70	67.87	74.00	-6.13
2389.87	Average	52.67	-4.70	47.97	54.00	-6.03
2417.00	Peak	110.98	-4.79	106.19	-	-
2417.00	Average	107.91	-4.79	103.12	-	-
2489.22	Peak	59.25	-4.96	54.29	74.00	-19.71
2490.60	Average	47.54	-4.95	42.59	54.00	-11.41

Duty Cycle=99.14%

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.

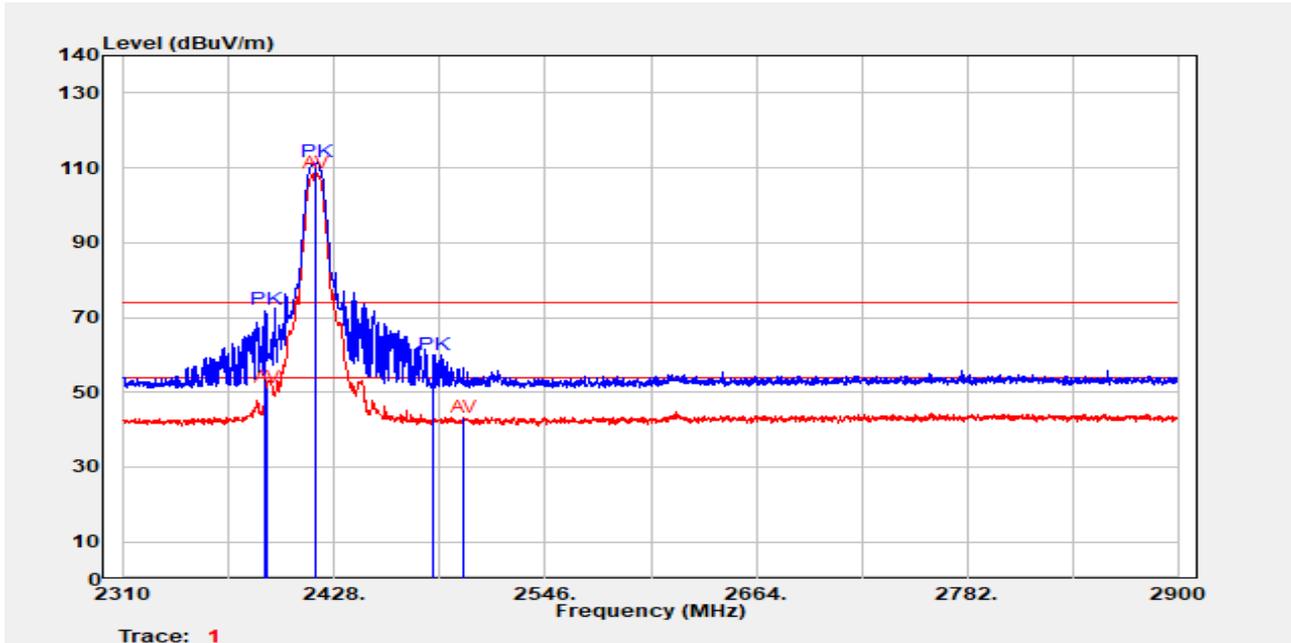
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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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	Peak	76.89	-4.70	72.19	74.00	-1.81
2389.87	Average	55.97	-4.70	51.27	54.00	-2.73
2417.00	Peak	116.30	-4.79	111.51	-	-
2417.00	Average	113.38	-4.79	108.59	-	-
2483.50	Peak	64.98	-4.97	60.01	74.00	-13.99
2500.04	Average	48.19	-4.86	43.33	54.00	-10.67

Duty Cycle=99.14%

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.

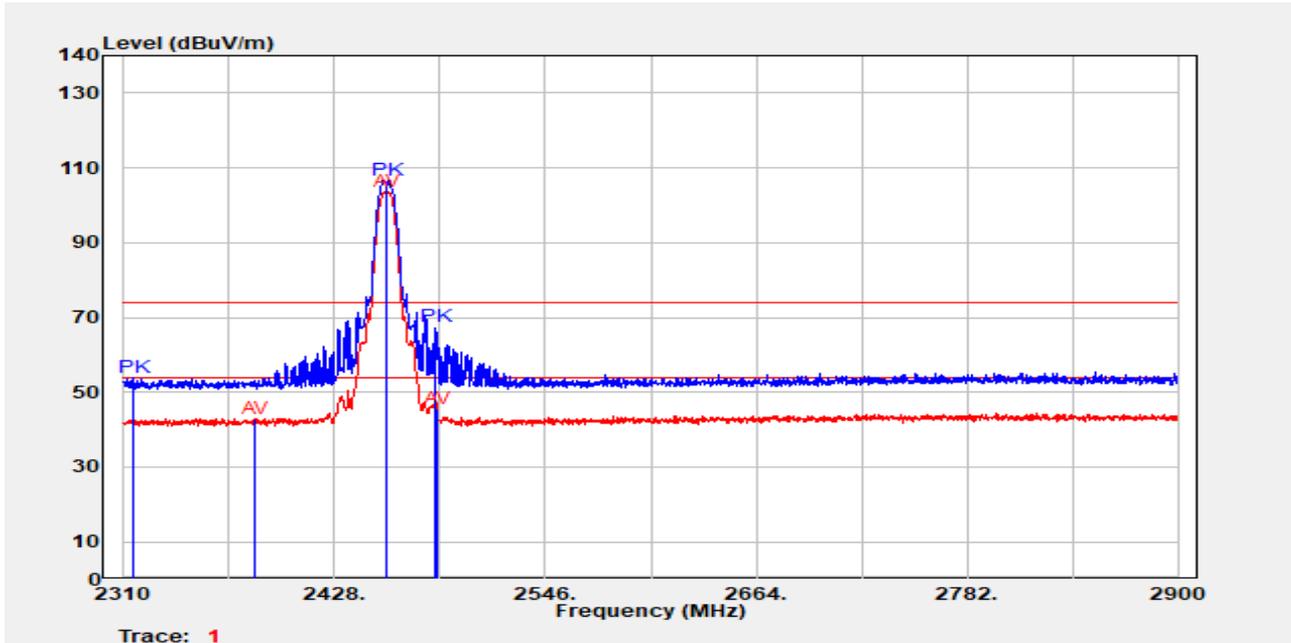
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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2314.92	Peak	58.51	-4.64	53.87	74.00	-20.13
2383.18	Average	47.75	-4.70	43.05	54.00	-10.95
2457.00	Peak	111.74	-4.95	106.79	-	-
2457.00	Average	108.70	-4.95	103.75	-	-
2484.11	Peak	72.57	-4.97	67.60	74.00	-6.40
2484.90	Average	50.50	-4.97	45.53	54.00	-8.47

Duty Cycle=99.14%

Average Duty Factor=0 (dB)

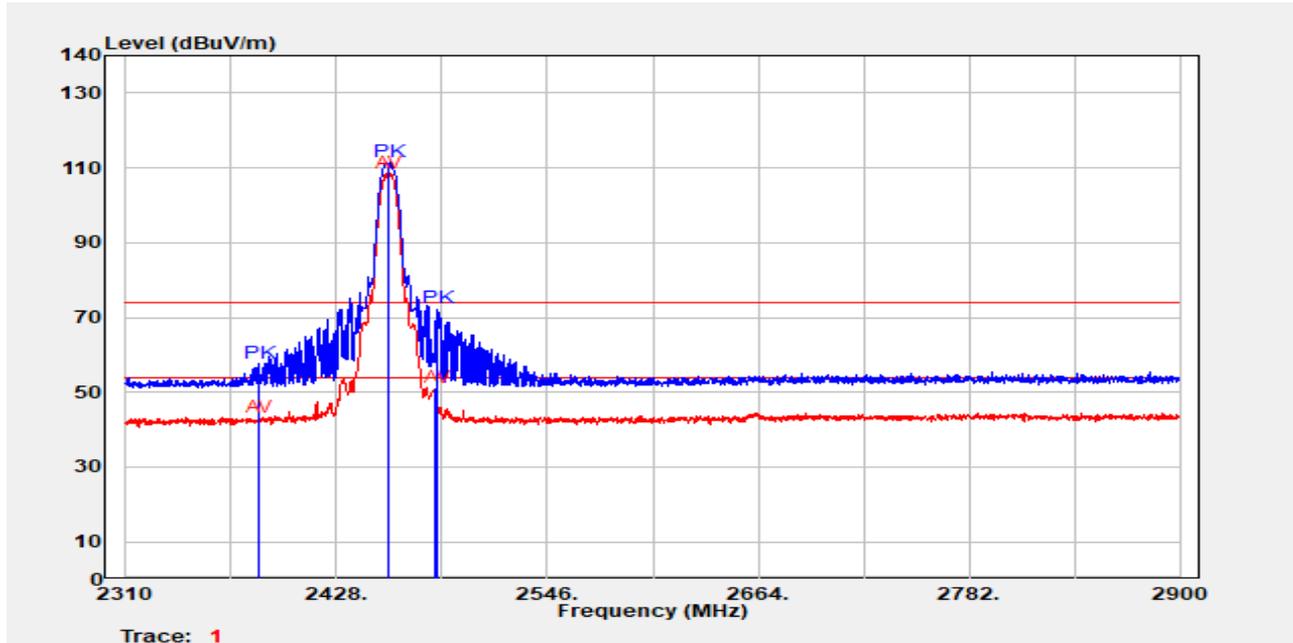
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2384.56	Peak	62.39	-4.70	57.69	74.00	-16.31
2384.56	Average	48.08	-4.70	43.38	54.00	-10.62
2457.00	Peak	116.49	-4.95	111.54	-	-
2457.00	Average	113.49	-4.95	108.54	-	-
2483.50	Average	56.33	-4.97	51.36	54.00	-2.64
2484.70	Peak	77.46	-4.97	72.49	74.00	-1.51

Duty Cycle=99.14%

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.

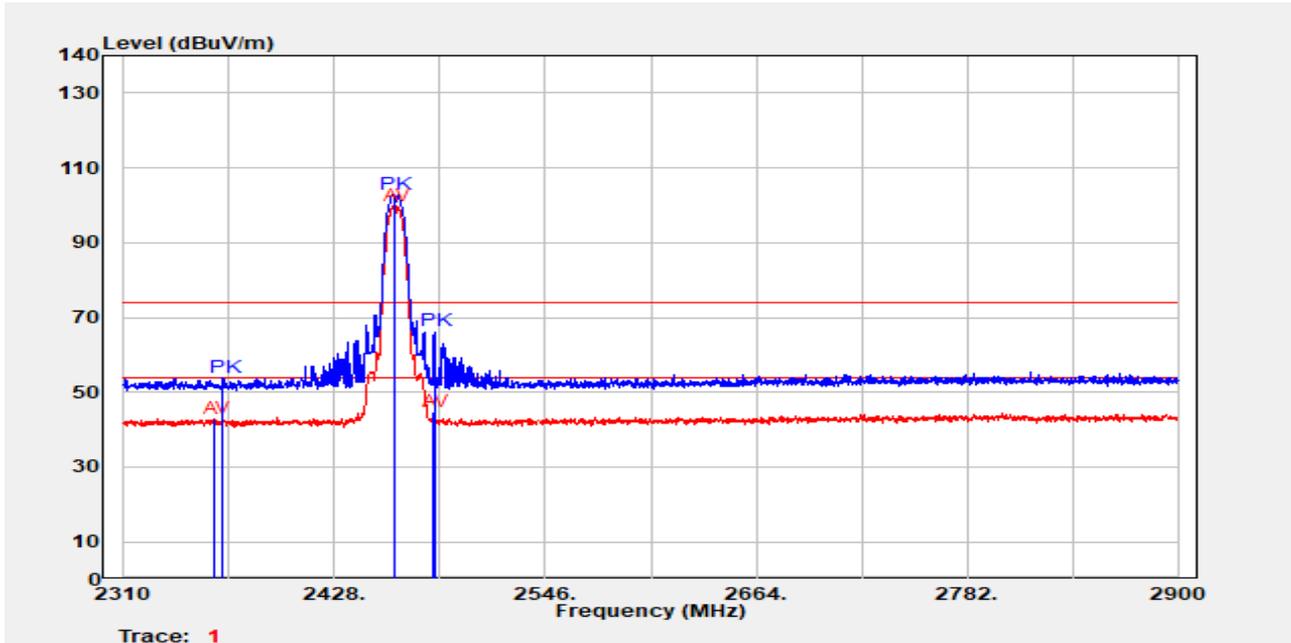
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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2360.76	Average	47.51	-4.71	42.80	54.00	-11.20
2365.68	Peak	58.44	-4.75	53.69	74.00	-20.31
2462.00	Peak	107.87	-4.98	102.89	-	-
2462.00	Average	104.73	-4.98	99.75	-	-
2483.50	Average	49.82	-4.97	44.85	54.00	-9.15
2484.11	Peak	71.51	-4.97	66.54	74.00	-7.46

Duty Cycle=99.14%

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.

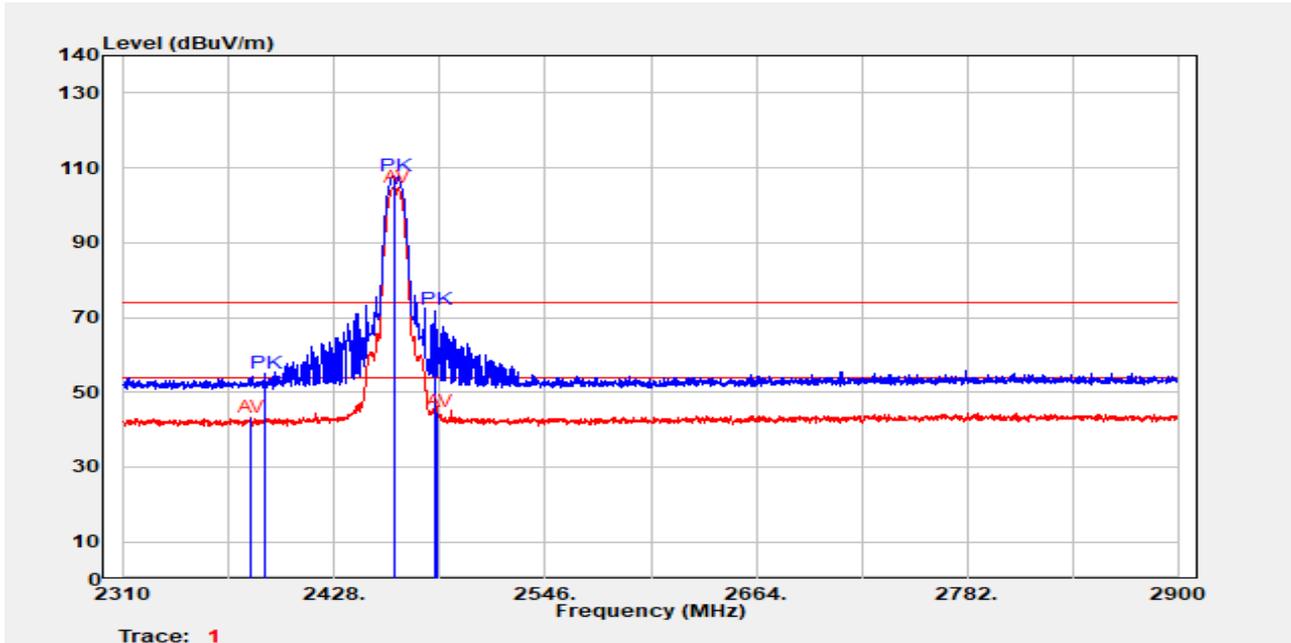
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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2380.43	Average	47.79	-4.70	43.09	54.00	-10.91
2389.09	Peak	59.60	-4.70	54.90	74.00	-19.10
2462.00	Peak	112.82	-4.98	107.84	-	-
2462.00	Average	109.76	-4.98	104.78	-	-
2484.70	Peak	76.98	-4.97	72.01	74.00	-1.99
2485.68	Average	49.82	-4.97	44.85	54.00	-9.15

Duty Cycle=99.14%

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.

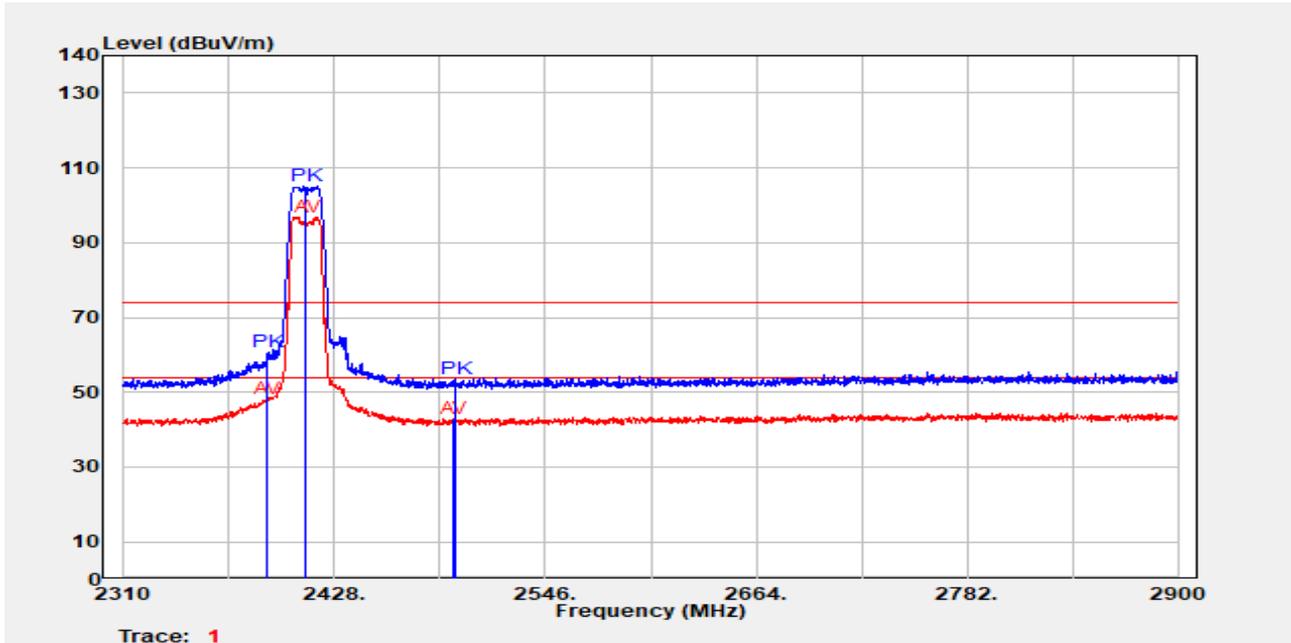
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2389.68	Average	52.87	-4.70	48.17	54.00	-5.83
2389.87	Peak	65.45	-4.70	60.75	74.00	-13.25
2412.00	Peak	110.01	-4.80	105.21	-	-
2412.00	Average	101.73	-4.80	96.93	-	-
2494.54	Average	47.81	-4.92	42.89	54.00	-11.11
2495.91	Peak	58.25	-4.90	53.35	74.00	-20.65

Duty Cycle=98.33%

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.

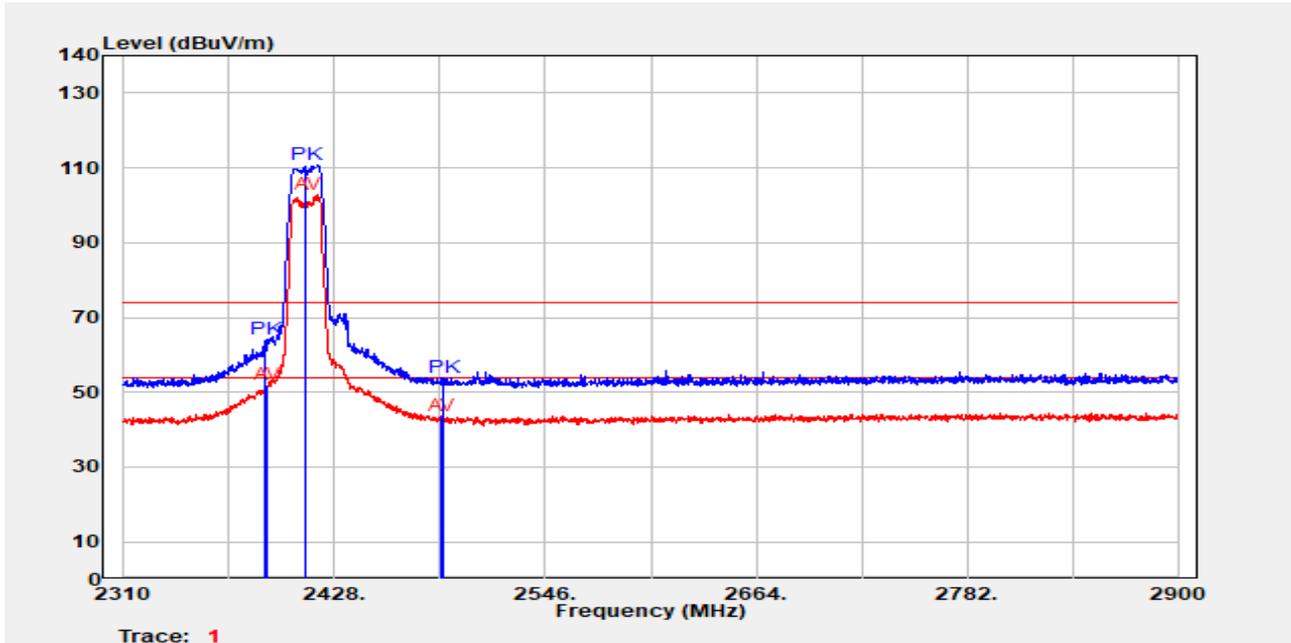
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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	Peak	68.92	-4.70	64.22	74.00	-9.78
2389.68	Average	56.57	-4.70	51.87	54.00	-2.13
2412.00	Peak	115.52	-4.80	110.72	-	-
2412.00	Average	107.65	-4.80	102.85	-	-
2487.45	Average	48.47	-4.97	43.50	54.00	-10.50
2488.24	Peak	58.89	-4.96	53.93	74.00	-20.07

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

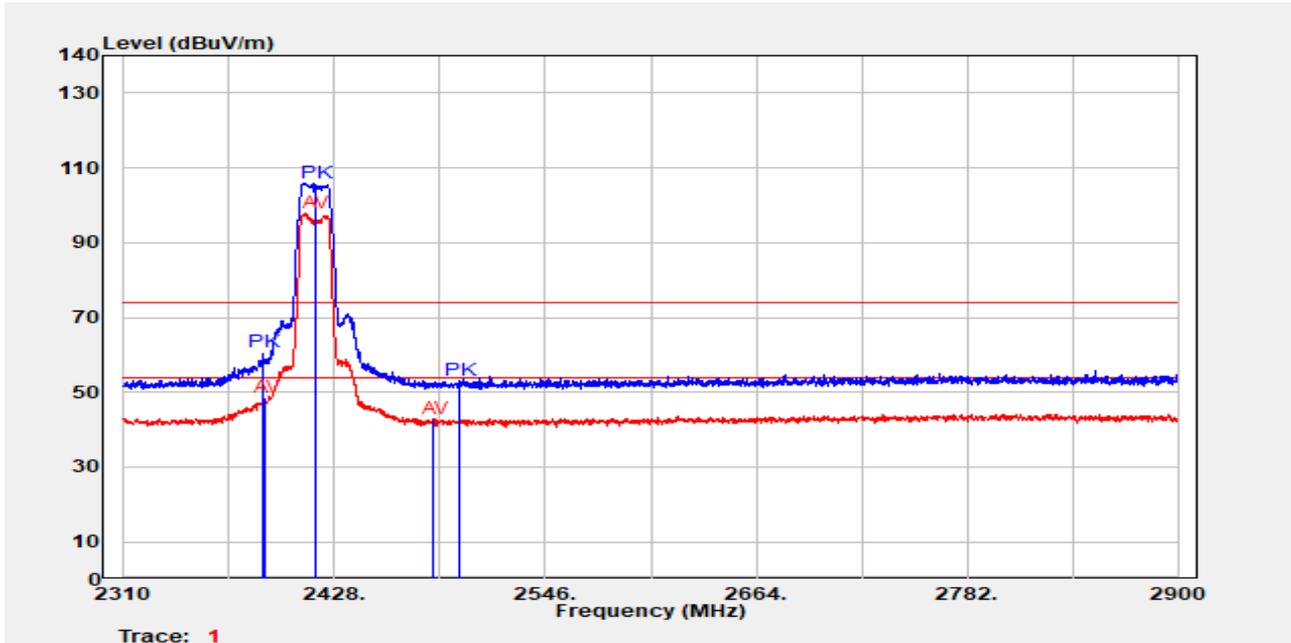
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2388.10	Peak	65.32	-4.70	60.62	74.00	-13.38
2389.48	Average	53.14	-4.70	48.44	54.00	-5.56
2417.00	Peak	110.75	-4.79	105.96	-	-
2417.00	Average	102.76	-4.79	97.97	-	-
2483.50	Average	47.77	-4.97	42.80	54.00	-11.20
2498.08	Peak	57.92	-4.88	53.04	74.00	-20.96

Duty Cycle=98.33%

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.

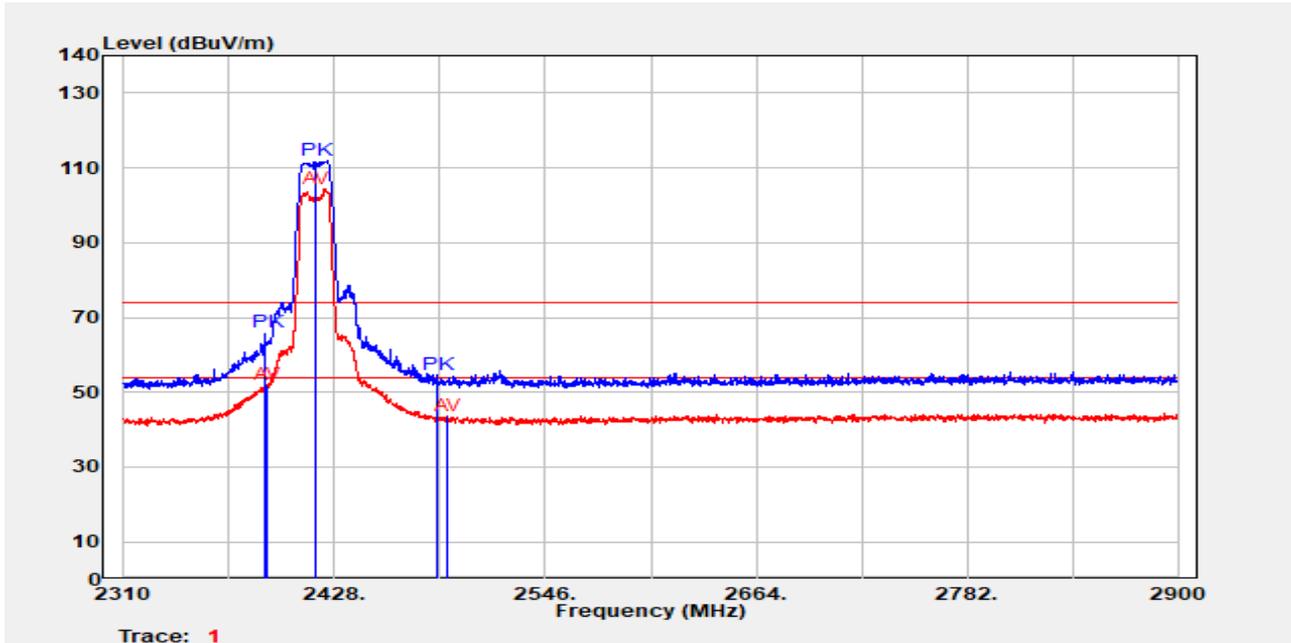
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2389.48	Peak	70.53	-4.70	65.83	74.00	-8.17
2389.87	Average	56.86	-4.70	52.16	54.00	-1.84
2417.00	Peak	116.82	-4.79	112.03	-	-
2417.00	Average	109.29	-4.79	104.50	-	-
2485.29	Peak	59.47	-4.97	54.50	74.00	-19.50
2490.80	Average	48.64	-4.95	43.69	54.00	-10.31

Duty Cycle=98.33%

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.

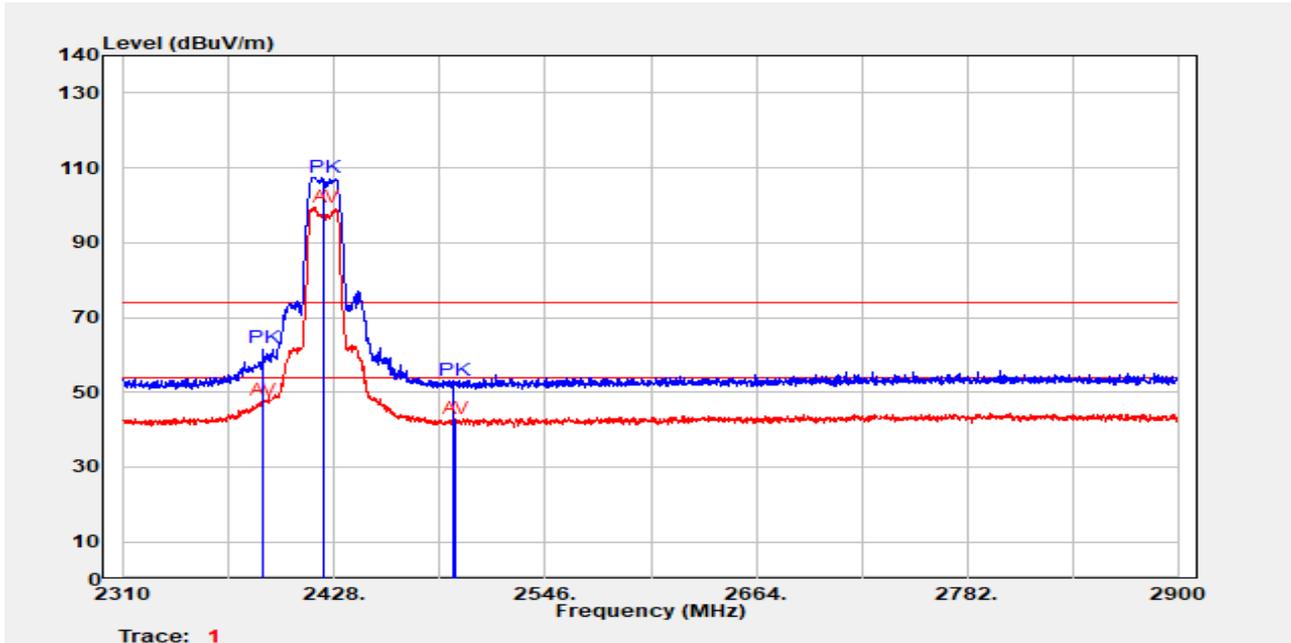
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2387.71	Average	52.59	-4.70	47.89	54.00	-6.11
2387.91	Peak	66.67	-4.70	61.97	74.00	-12.03
2422.00	Peak	112.19	-4.79	107.40	-	-
2422.00	Average	104.37	-4.79	99.58	-	-
2493.95	Peak	58.22	-4.93	53.29	74.00	-20.71
2495.72	Average	47.86	-4.91	42.95	54.00	-11.05

Duty Cycle=98.33%

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.

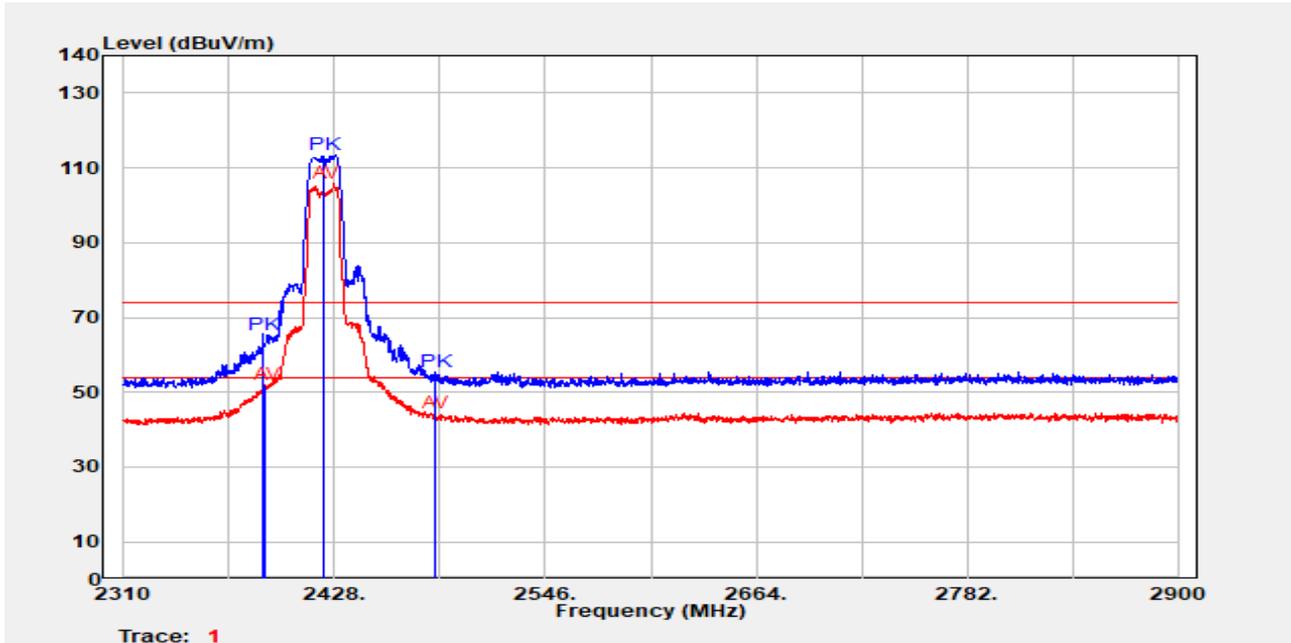
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2388.10	Peak	70.02	-4.70	65.32	74.00	-8.68
2389.48	Average	56.63	-4.70	51.93	54.00	-2.07
2422.00	Peak	118.16	-4.79	113.37	-	-
2422.00	Average	110.47	-4.79	105.68	-	-
2484.11	Average	49.38	-4.97	44.41	54.00	-9.59
2484.50	Peak	60.23	-4.97	55.26	74.00	-18.74

Duty Cycle=98.33%

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.

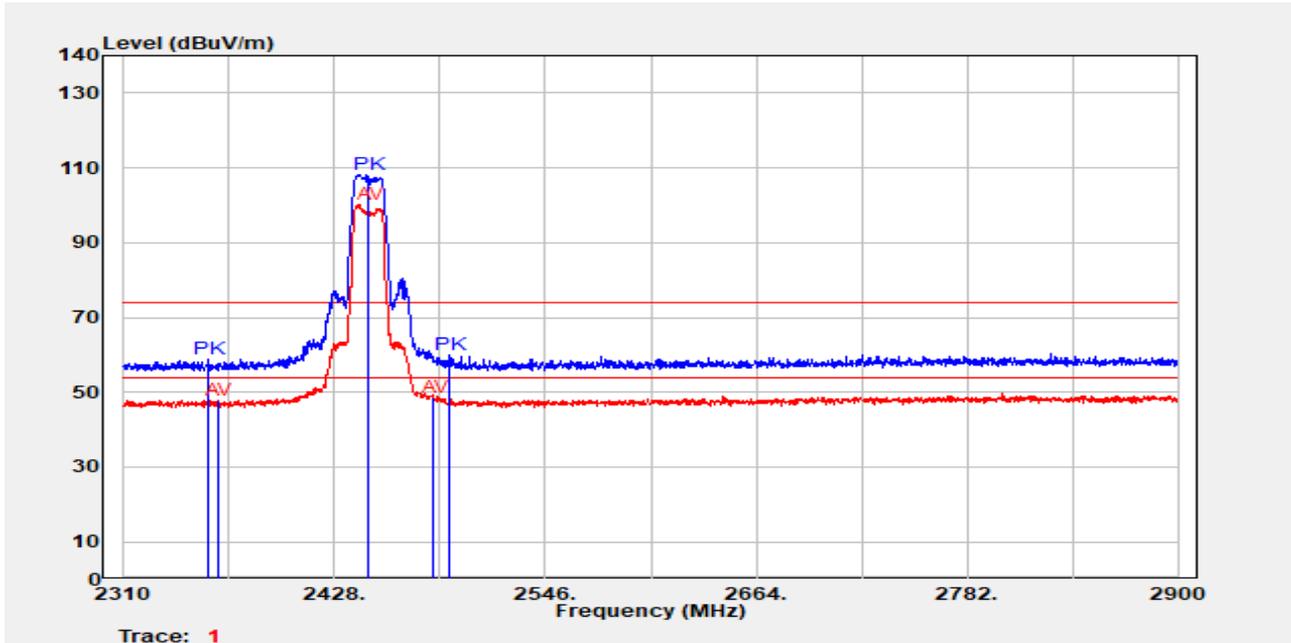
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2357.41	Peak	63.40	-4.69	58.71	74.00	-15.29
2362.92	Average	52.68	-4.73	47.95	54.00	-6.05
2447.00	Peak	113.02	-4.88	108.14	-	-
2447.00	Average	105.09	-4.88	100.21	-	-
2483.50	Average	53.54	-4.97	48.57	54.00	-5.43
2492.57	Peak	64.76	-4.93	59.83	74.00	-14.17

Duty Cycle=98.33%

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.

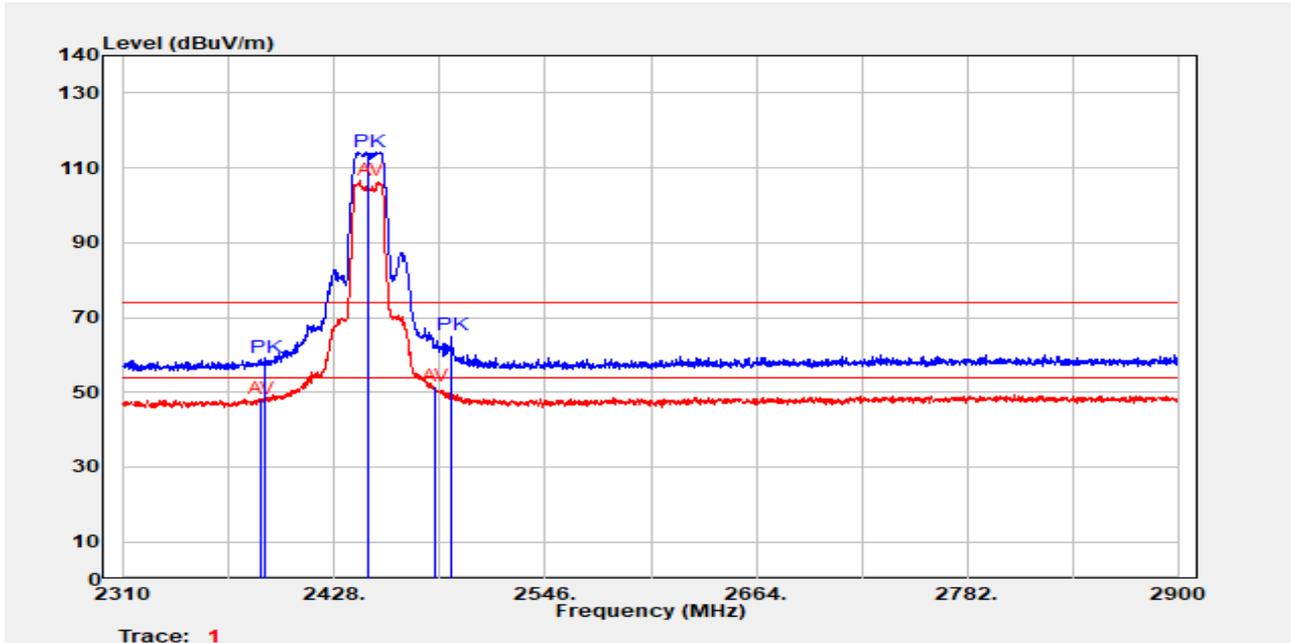
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2386.73	Average	53.00	-4.70	48.30	54.00	-5.70
2389.28	Peak	64.07	-4.70	59.37	74.00	-14.63
2447.00	Peak	119.25	-4.88	114.37	-	-
2447.00	Average	111.32	-4.88	106.44	-	-
2484.11	Average	56.48	-4.97	51.51	54.00	-2.49
2493.55	Peak	70.10	-4.92	65.18	74.00	-8.82

Duty Cycle=98.33%

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.

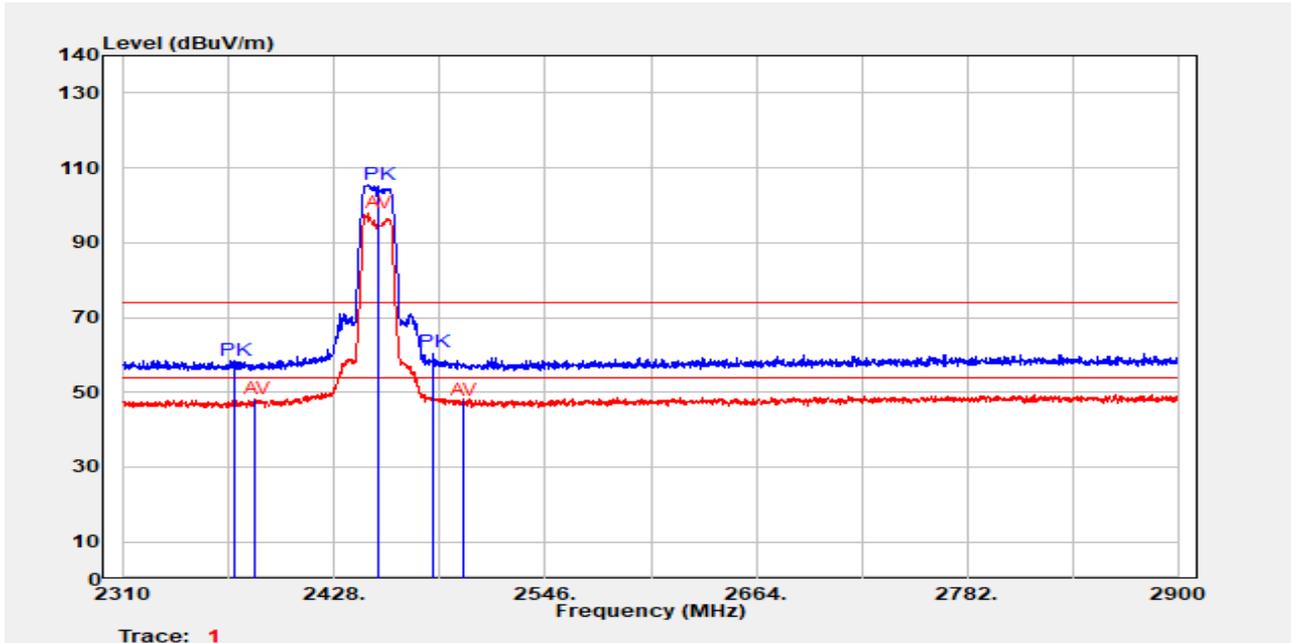
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2371.97	Peak	63.33	-4.78	58.55	74.00	-15.45
2383.78	Average	52.83	-4.70	48.13	54.00	-5.87
2452.00	Peak	110.23	-4.90	105.33	-	-
2452.00	Average	102.63	-4.90	97.73	-	-
2483.50	Peak	65.78	-4.97	60.81	74.00	-13.19
2499.85	Average	52.57	-4.86	47.71	54.00	-6.29

Duty Cycle=98.33%

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.

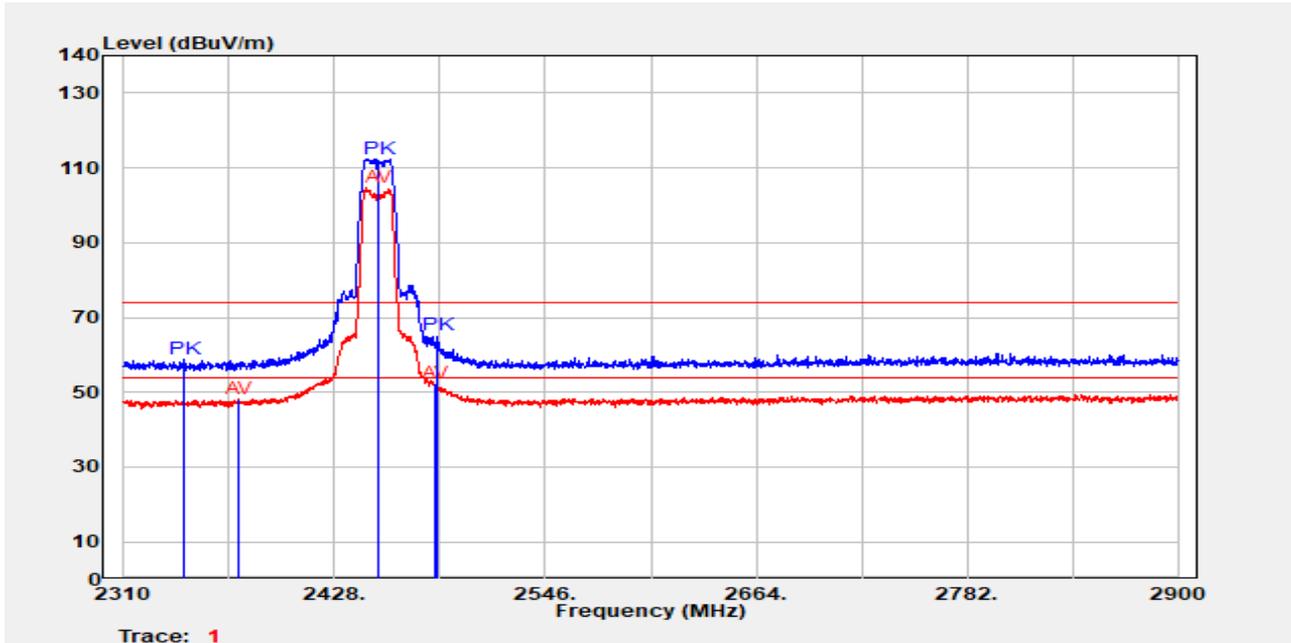
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2343.45	Peak	63.39	-4.70	58.69	74.00	-15.31
2374.33	Average	53.08	-4.76	48.32	54.00	-5.68
2452.00	Peak	117.29	-4.90	112.39	-	-
2452.00	Average	109.46	-4.90	104.56	-	-
2484.31	Average	57.45	-4.97	52.48	54.00	-1.52
2485.49	Peak	70.17	-4.97	65.20	74.00	-8.80

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

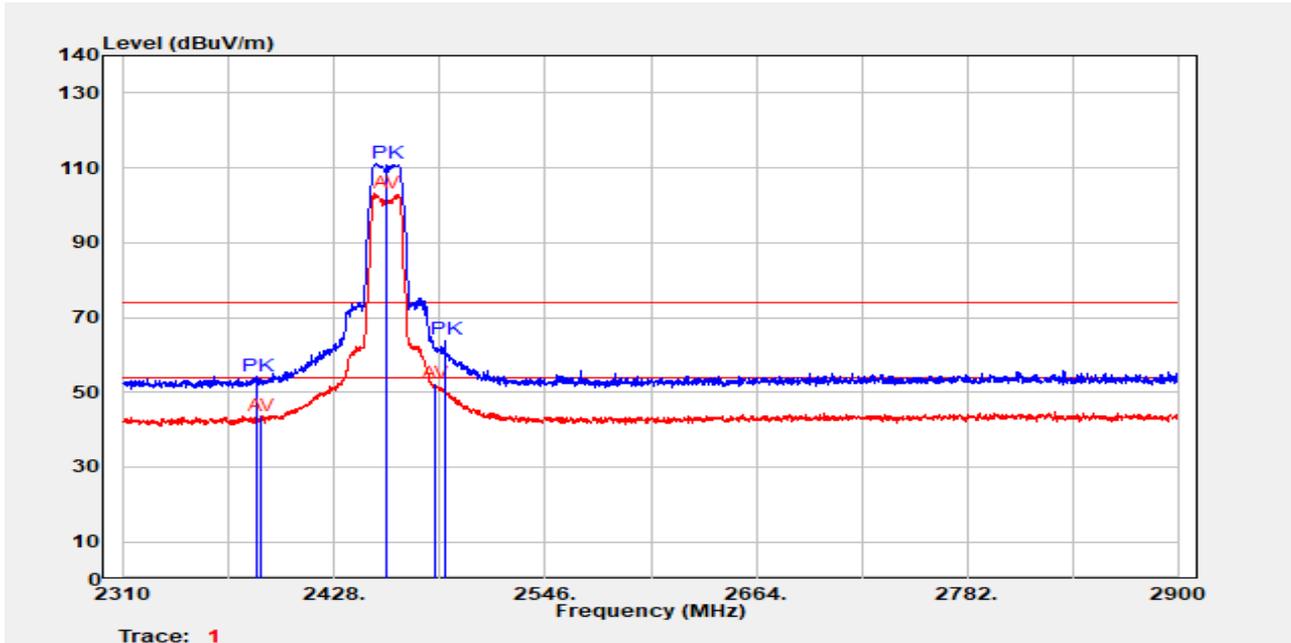
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2383.97	Peak	59.10	-4.70	54.40	74.00	-19.60
2386.53	Average	48.43	-4.70	43.73	54.00	-10.27
2457.00	Peak	115.94	-4.95	110.99	-	-
2457.00	Average	108.20	-4.95	103.25	-	-
2483.91	Average	57.19	-4.97	52.22	54.00	-1.78
2490.01	Peak	69.23	-4.96	64.27	74.00	-9.73

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

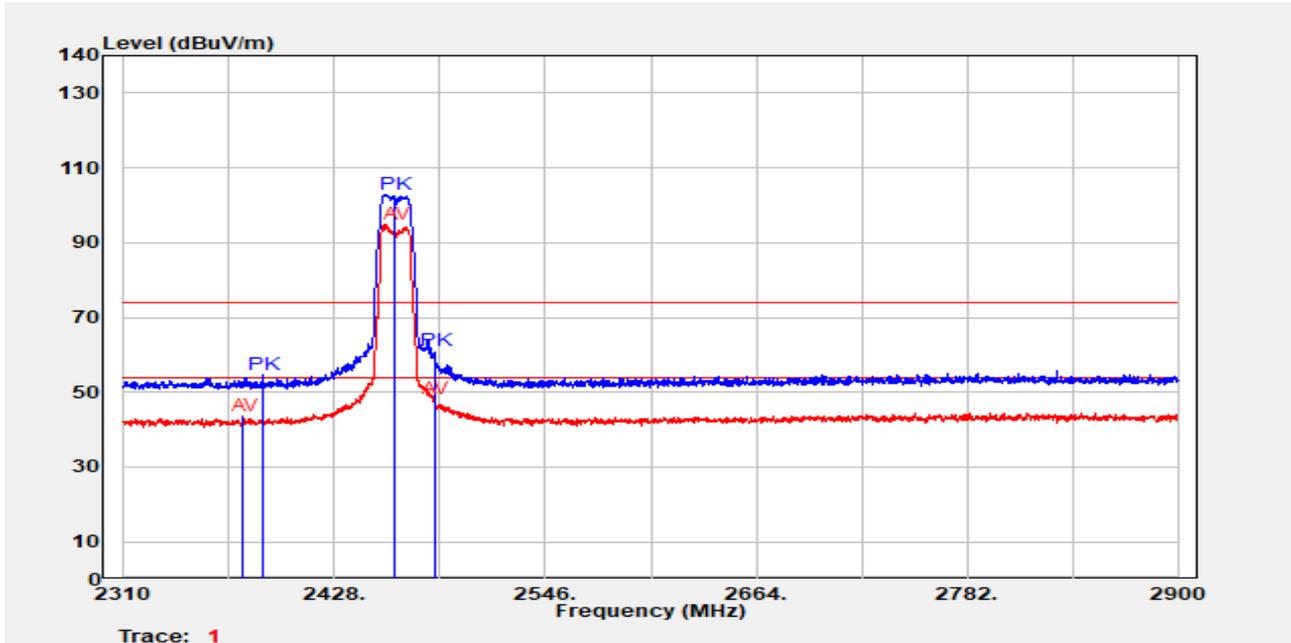
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2376.89	Average	48.17	-4.72	43.45	54.00	-10.55
2387.91	Peak	59.23	-4.70	54.53	74.00	-19.47
2462.00	Peak	107.64	-4.98	102.66	-	-
2462.00	Average	100.02	-4.98	95.04	-	-
2483.72	Peak	66.11	-4.97	61.14	74.00	-12.86
2483.72	Average	53.07	-4.97	48.10	54.00	-5.90

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

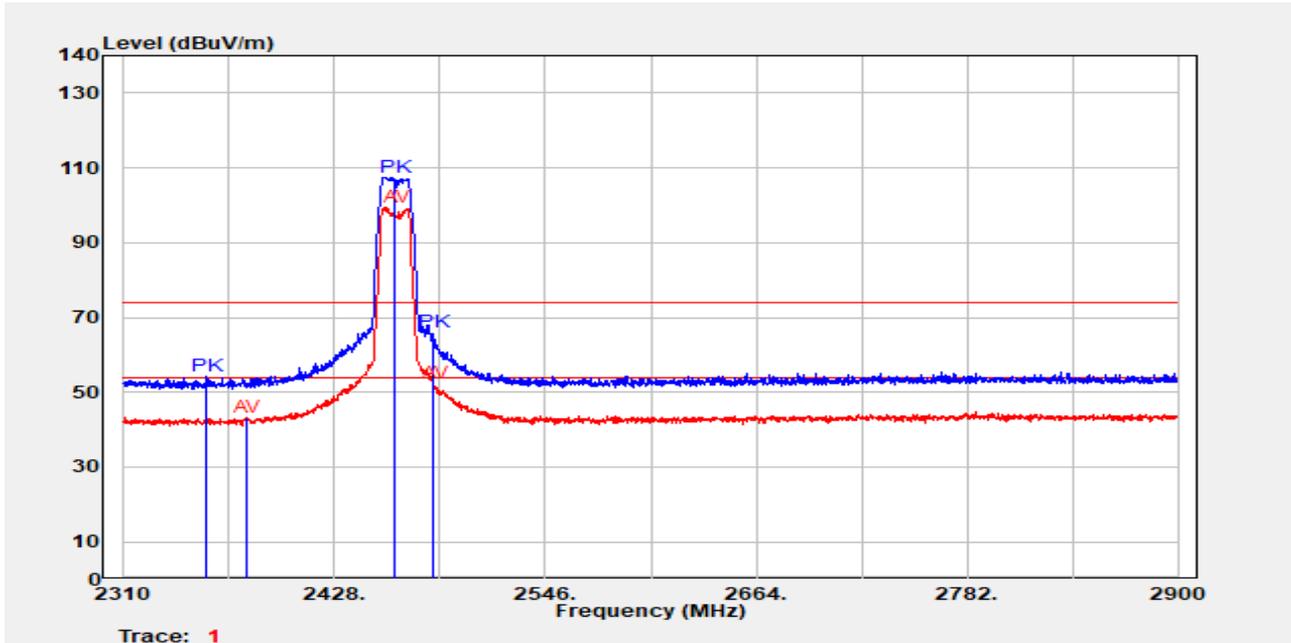
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-27
 Temp./Humi. :24.7°C/58%
 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
2356.43	Peak	58.79	-4.69	54.10	74.00	-19.90
2378.46	Average	47.99	-4.72	43.27	54.00	-10.73
2462.00	Peak	112.50	-4.98	107.52	-	-
2462.00	Average	104.43	-4.98	99.45	-	-
2483.50	Peak	71.11	-4.97	66.14	74.00	-7.86
2483.50	Average	57.40	-4.97	52.43	54.00	-1.57

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

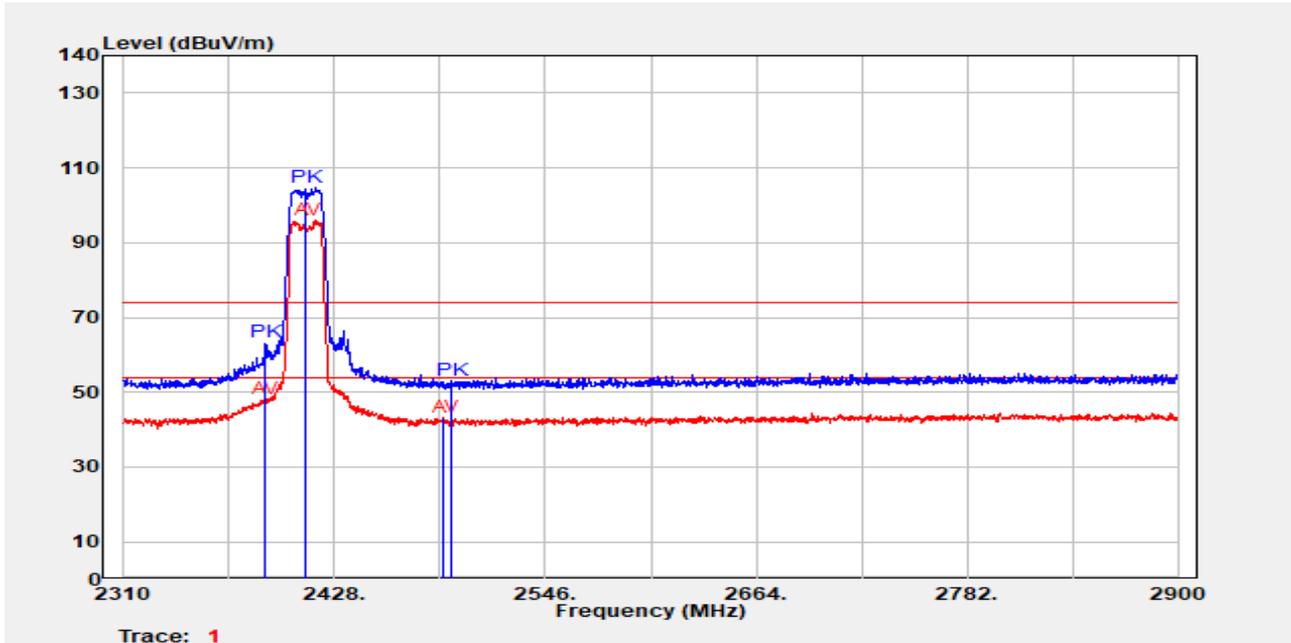
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2388.89	Average	52.89	-4.70	48.19	54.00	-5.81
2389.09	Peak	68.22	-4.70	63.52	74.00	-10.48
2412.00	Peak	109.61	-4.80	104.81	-	-
2412.00	Average	100.80	-4.80	96.00	-	-
2489.03	Average	48.12	-4.96	43.16	54.00	-10.84
2493.75	Peak	58.07	-4.92	53.15	74.00	-20.85

Duty Cycle=98.21%

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.

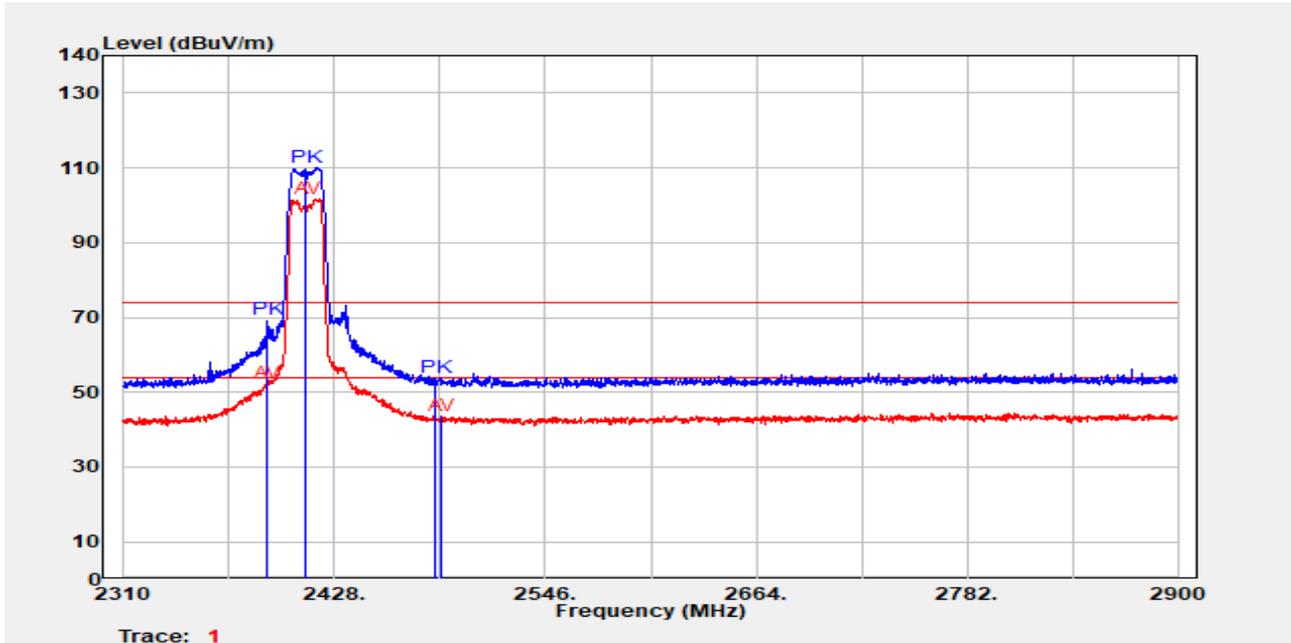
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2389.68	Peak	74.27	-4.70	69.57	74.00	-4.43
2389.87	Average	57.05	-4.70	52.35	54.00	-1.65
2412.00	Peak	114.93	-4.80	110.13	-	-
2412.00	Average	106.42	-4.80	101.62	-	-
2484.50	Peak	59.03	-4.97	54.06	74.00	-19.94
2487.65	Average	48.48	-4.96	43.52	54.00	-10.48

Duty Cycle=98.21%

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.

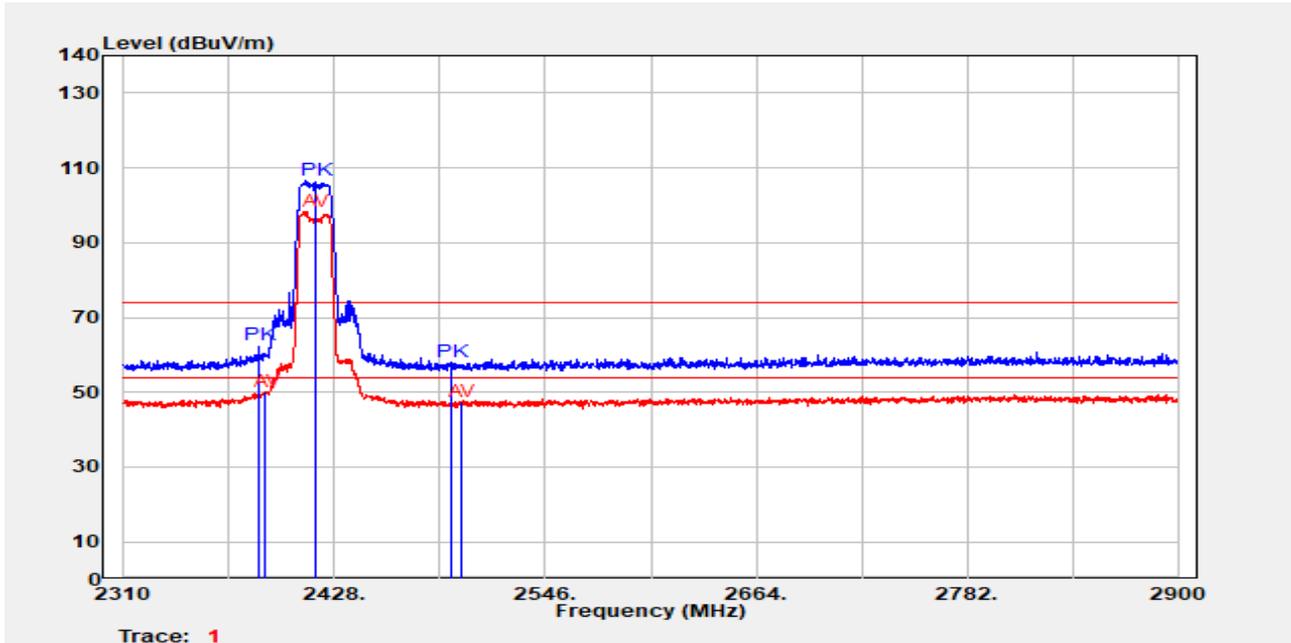
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2385.35	Peak	67.29	-4.69	62.60	74.00	-11.40
2389.28	Average	54.79	-4.70	50.09	54.00	-3.91
2417.00	Peak	111.56	-4.79	106.77	-	-
2417.00	Average	102.96	-4.79	98.17	-	-
2493.55	Peak	62.84	-4.92	57.92	74.00	-16.08
2498.67	Average	52.41	-4.87	47.54	54.00	-6.46

Duty Cycle=98.21%

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.

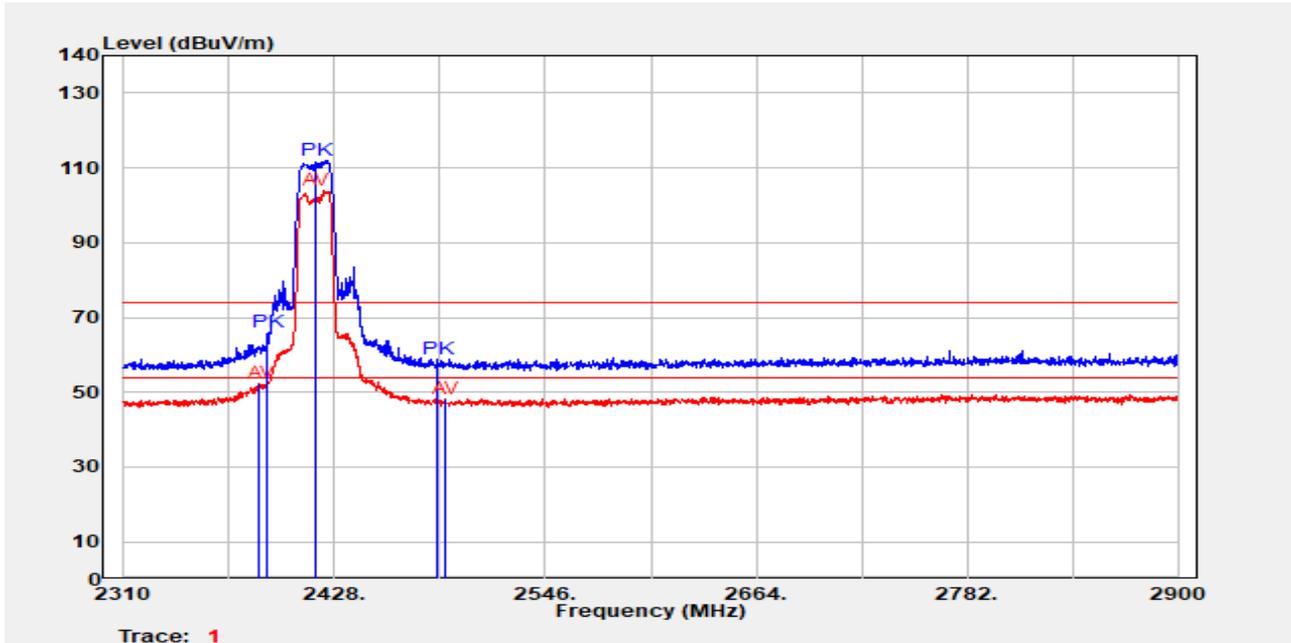
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2385.94	Average	57.04	-4.69	52.35	54.00	-1.65
2389.87	Peak	70.87	-4.70	66.17	74.00	-7.83
2417.00	Peak	116.77	-4.79	111.98	-	-
2417.00	Average	108.82	-4.79	104.03	-	-
2485.49	Peak	63.74	-4.97	58.77	74.00	-15.23
2490.01	Average	53.33	-4.96	48.37	54.00	-5.63

Duty Cycle=98.21%

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.

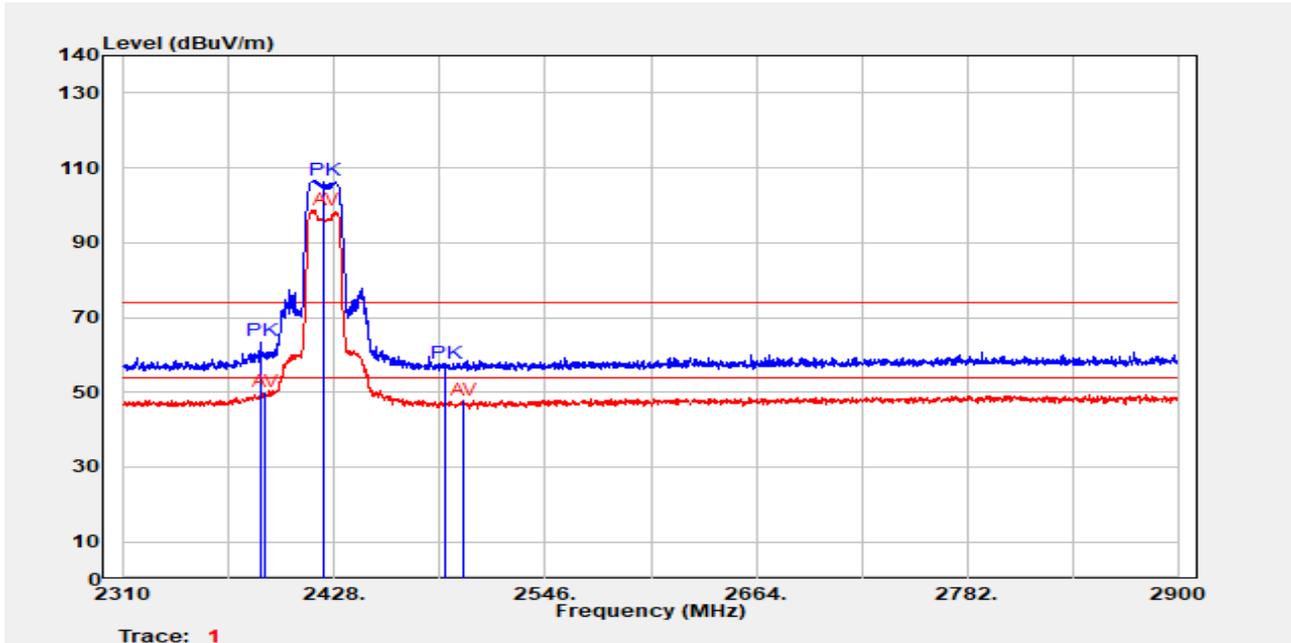
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2386.92	Peak	68.57	-4.70	63.87	74.00	-10.13
2388.69	Average	54.60	-4.70	49.90	54.00	-4.10
2422.00	Peak	111.58	-4.79	106.79	-	-
2422.00	Average	103.55	-4.79	98.76	-	-
2490.21	Peak	62.72	-4.96	57.76	74.00	-16.24
2499.85	Average	52.50	-4.86	47.64	54.00	-6.36

Duty Cycle=98.21%

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.

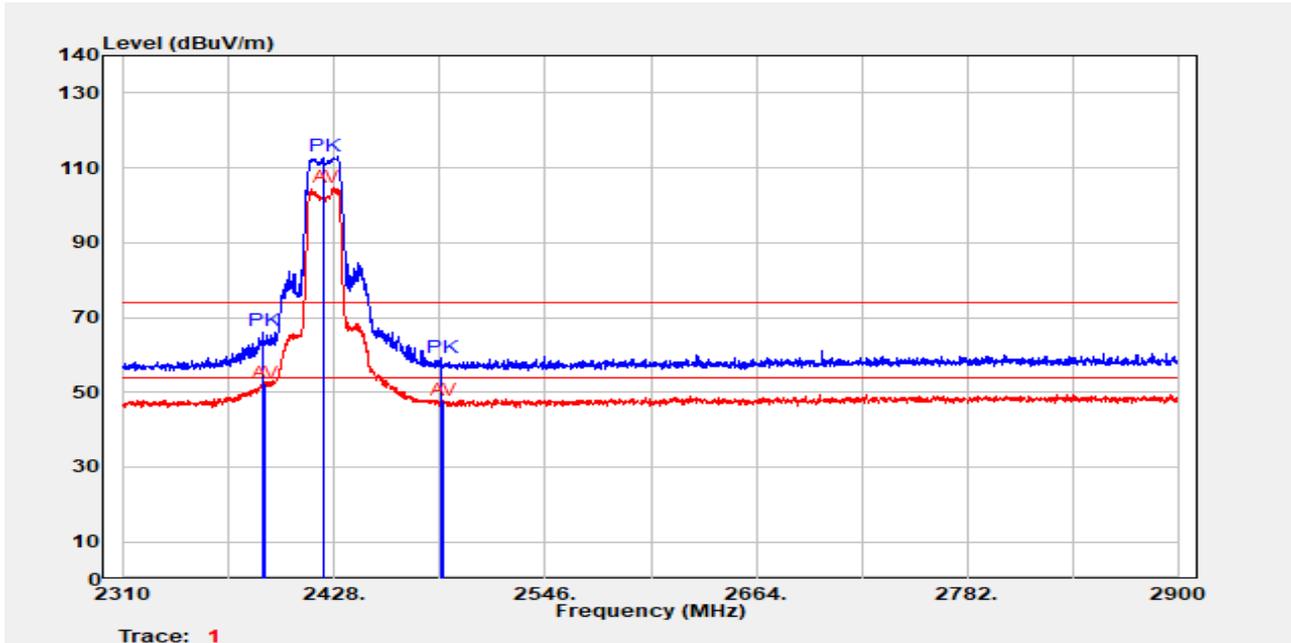
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2388.30	Peak	71.17	-4.70	66.47	74.00	-7.53
2388.50	Average	57.06	-4.70	52.36	54.00	-1.64
2422.00	Peak	117.88	-4.79	113.09	-	-
2422.00	Average	109.42	-4.79	104.63	-	-
2487.26	Peak	64.02	-4.97	59.05	74.00	-14.95
2488.24	Average	52.89	-4.96	47.93	54.00	-6.07

Duty Cycle=98.21%

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.

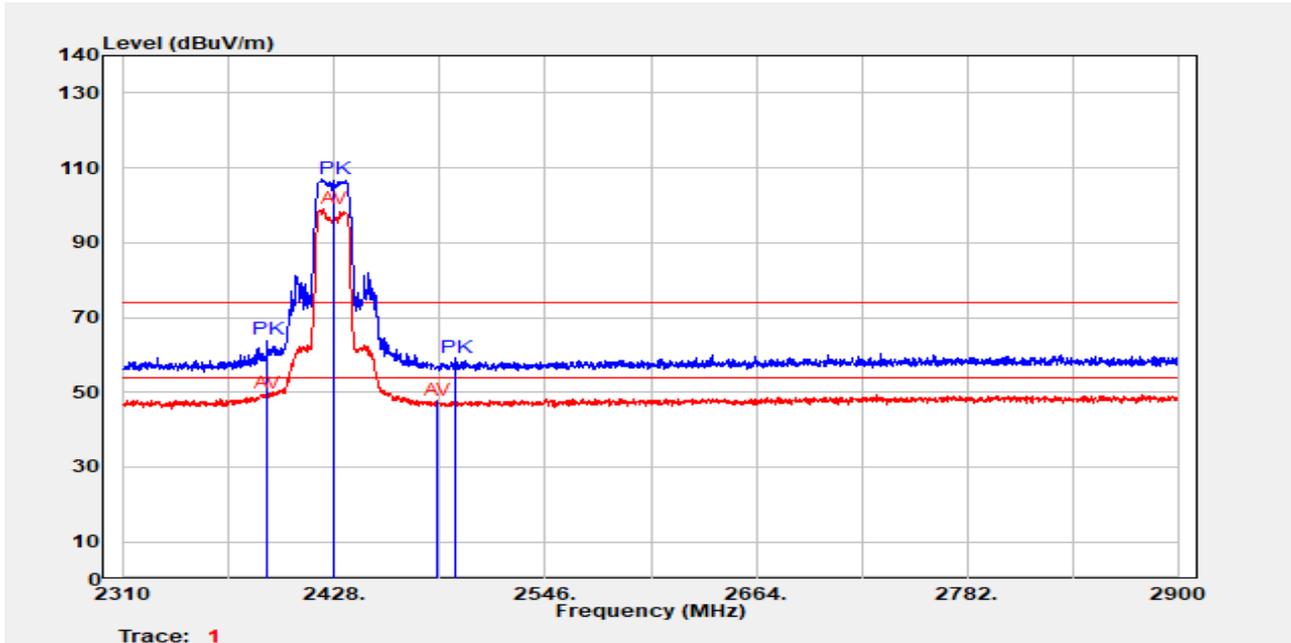
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Report Number :TERF2503001002ER
Operation Mode :802.11n20
Test Frequency :2427 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 2
Test Date :2025-03-28
Temp./Humi. :25.4°C/54%
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	68.74	-4.70	64.04	74.00	-9.96
2389.87	Average	54.33	-4.70	49.63	54.00	-4.37
2427.00	Peak	111.69	-4.79	106.90	-	-
2427.00	Average	103.74	-4.79	98.95	-	-
2485.49	Average	52.66	-4.97	47.69	54.00	-6.31
2495.13	Peak	63.98	-4.92	59.06	74.00	-14.94

Duty Cycle=98.21%

Average Duty Factor=0 (dB)

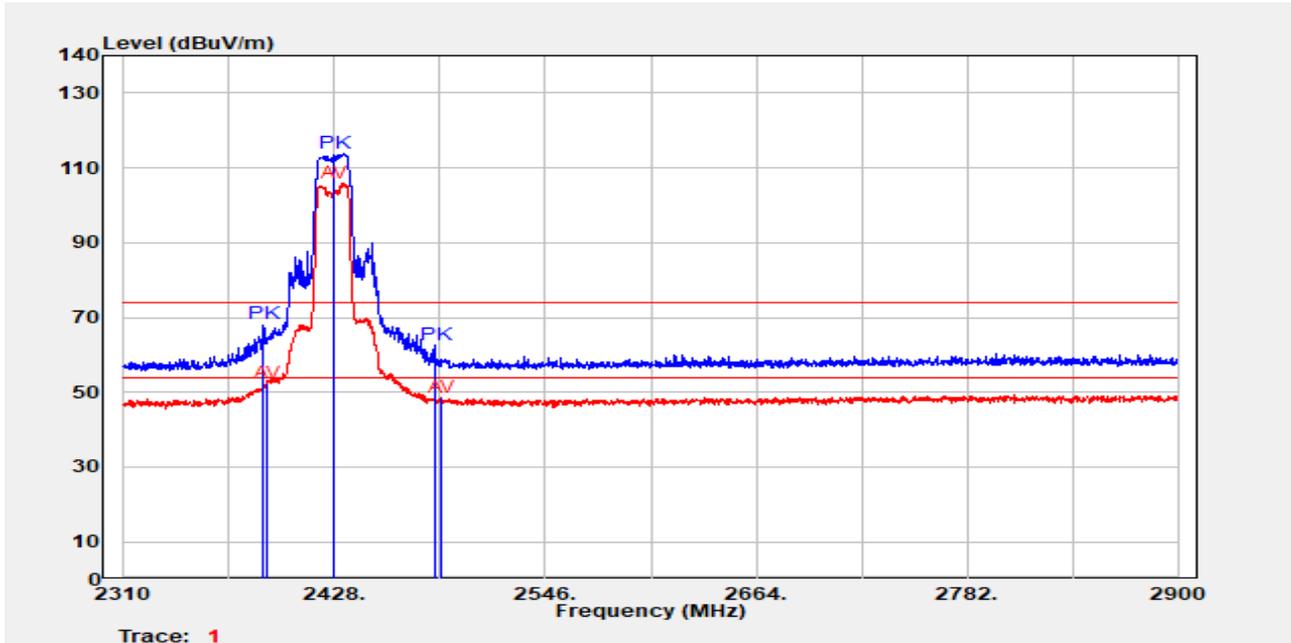
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2388.30	Peak	72.88	-4.70	68.18	74.00	-5.82
2389.87	Average	57.19	-4.70	52.49	54.00	-1.51
2427.00	Peak	118.42	-4.79	113.63	-	-
2427.00	Average	110.77	-4.79	105.98	-	-
2484.50	Peak	67.59	-4.97	62.62	74.00	-11.38
2487.26	Average	53.40	-4.97	48.43	54.00	-5.57

Duty Cycle=98.21%

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.

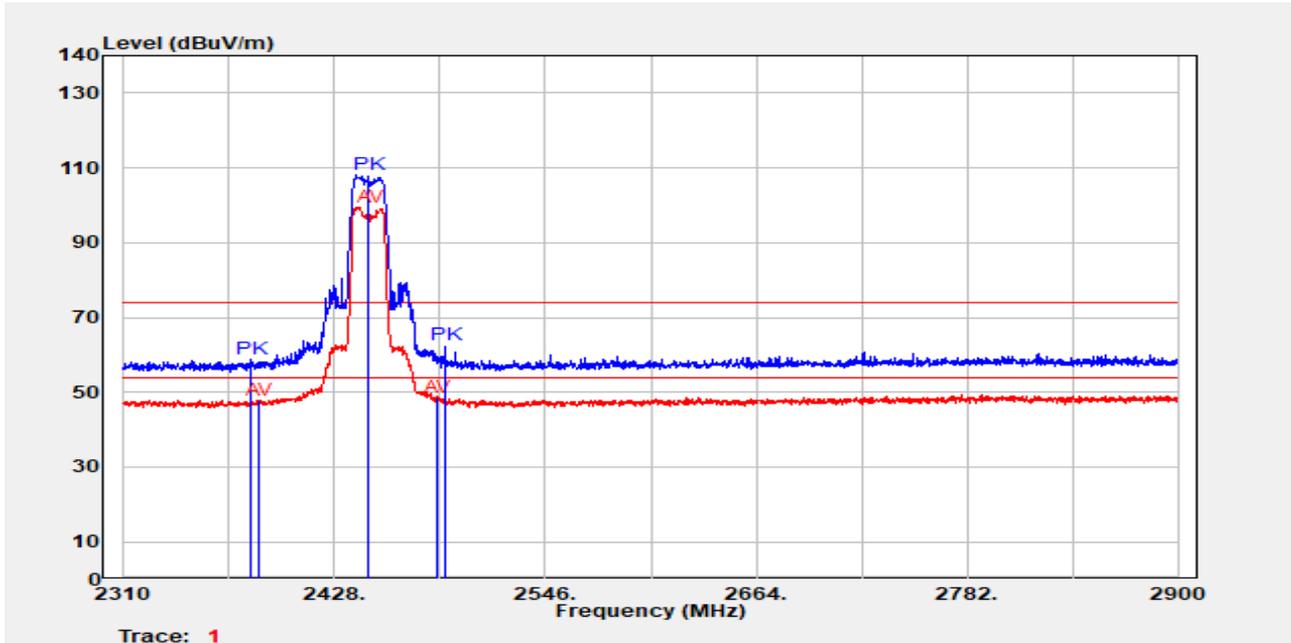
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2381.41	Peak	63.39	-4.70	58.69	74.00	-15.31
2385.15	Average	52.58	-4.69	47.89	54.00	-6.11
2447.00	Peak	113.05	-4.88	108.17	-	-
2447.00	Average	104.36	-4.88	99.48	-	-
2485.29	Average	53.64	-4.97	48.67	54.00	-5.33
2489.62	Peak	67.47	-4.96	62.51	74.00	-11.49

Duty Cycle=98.21%

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.

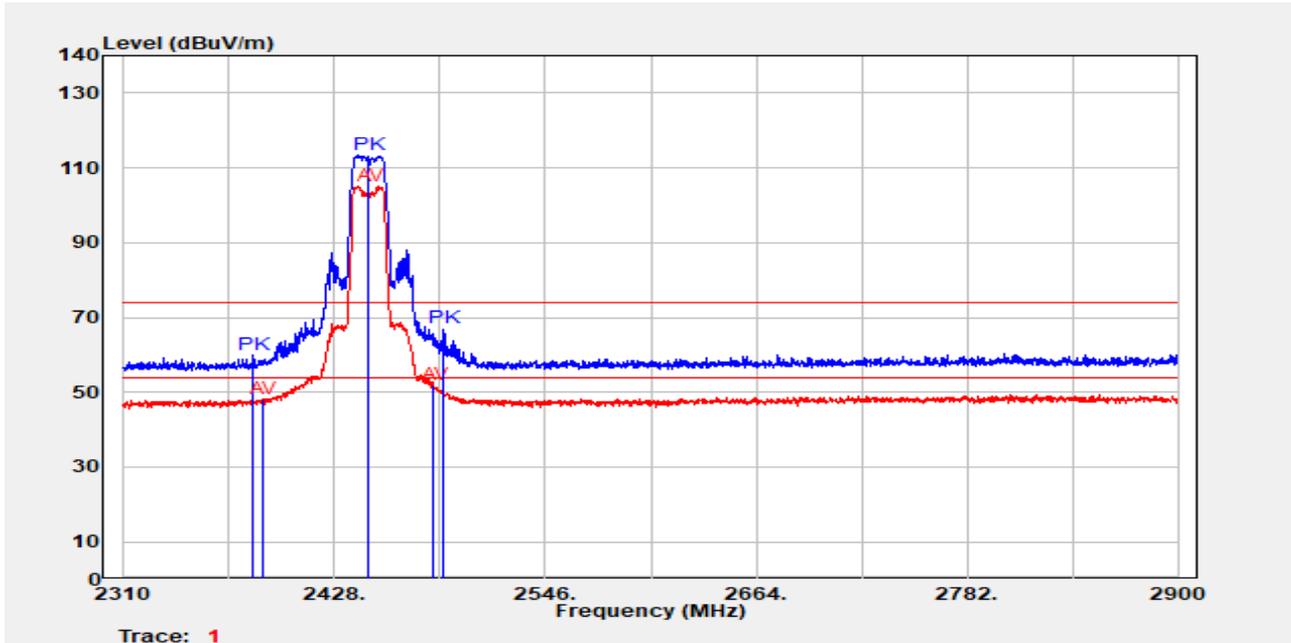
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2382.59	Peak	64.64	-4.70	59.94	74.00	-14.06
2387.51	Average	53.03	-4.70	48.33	54.00	-5.67
2447.00	Peak	118.23	-4.88	113.35	-	-
2447.00	Average	110.12	-4.88	105.24	-	-
2483.50	Average	57.01	-4.97	52.04	54.00	-1.96
2488.63	Peak	71.95	-4.96	66.99	74.00	-7.01

Duty Cycle=98.21%

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.

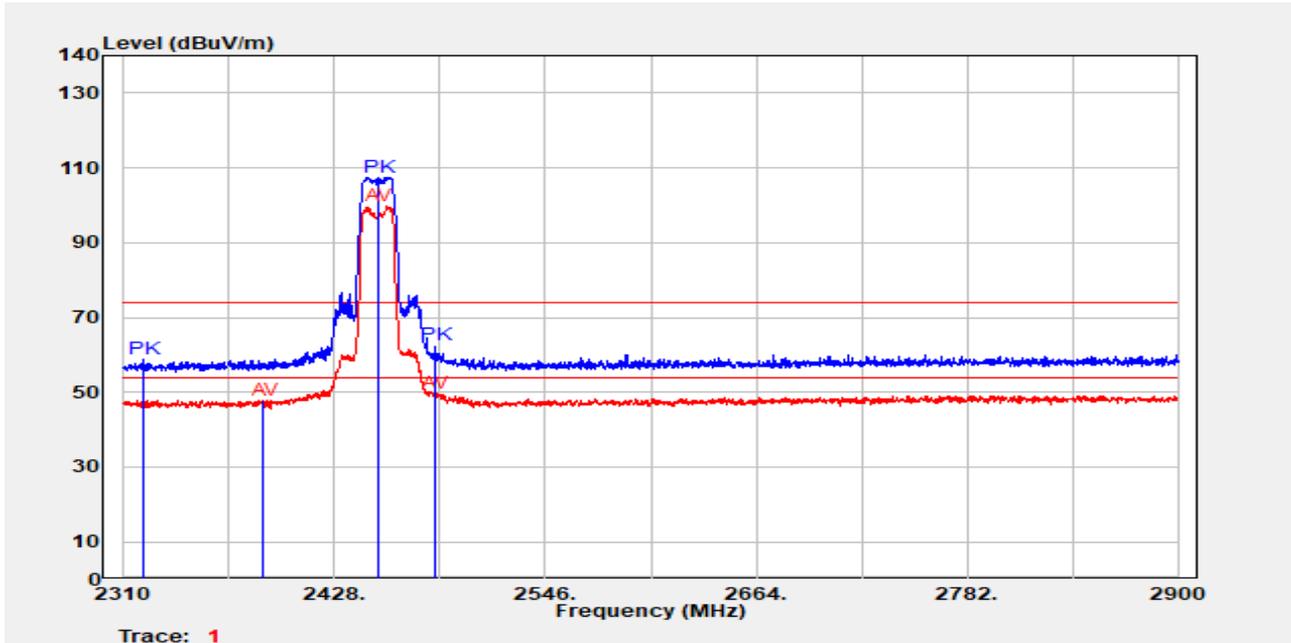
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2320.62	Peak	63.47	-4.68	58.79	74.00	-15.21
2388.30	Average	52.60	-4.70	47.90	54.00	-6.10
2452.00	Peak	112.38	-4.90	107.48	-	-
2452.00	Average	104.60	-4.90	99.70	-	-
2483.72	Average	54.77	-4.97	49.80	54.00	-4.20
2484.70	Peak	67.75	-4.97	62.78	74.00	-11.22

Duty Cycle=98.21%

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.

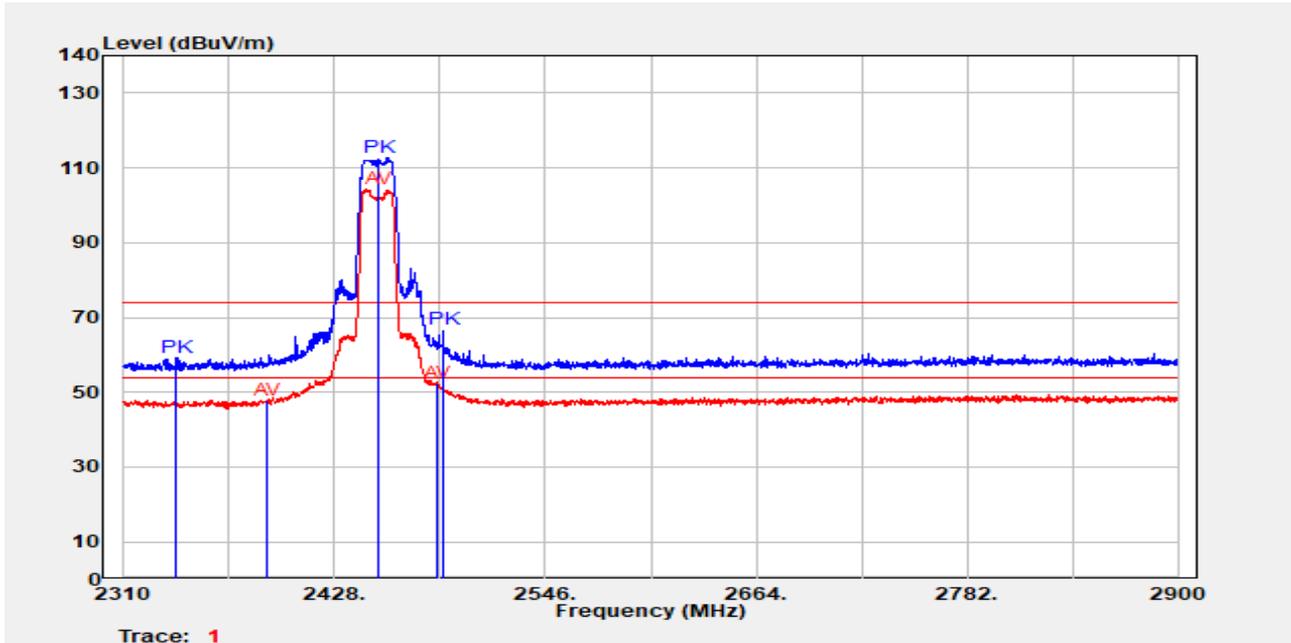
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Report Number :TERF2503001002ER
Operation Mode :802.11n20
Test Frequency :2452 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 2
Test Date :2025-03-28
Temp./Humi. :25.4°C/54%
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
2339.51	Peak	63.96	-4.69	59.27	74.00	-14.73
2389.68	Average	52.53	-4.70	47.83	54.00	-6.17
2452.00	Peak	117.68	-4.90	112.78	-	-
2452.00	Average	109.08	-4.90	104.18	-	-
2485.49	Average	57.33	-4.97	52.36	54.00	-1.64
2488.63	Peak	71.81	-4.96	66.85	74.00	-7.15

Duty Cycle=98.21%

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.

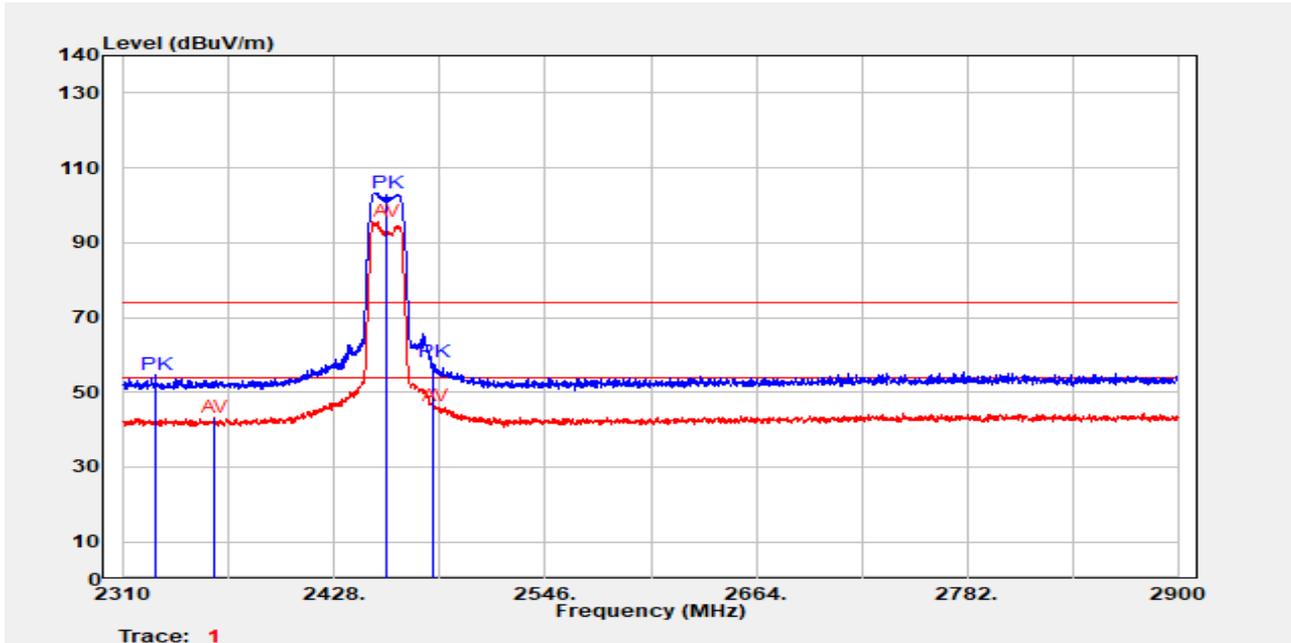
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2327.71	Peak	59.47	-4.69	54.78	74.00	-19.22
2360.56	Average	47.78	-4.71	43.07	54.00	-10.93
2457.00	Peak	108.22	-4.95	103.27	-	-
2457.00	Average	100.71	-4.95	95.76	-	-
2483.50	Peak	62.93	-4.97	57.96	74.00	-16.04
2483.50	Average	51.25	-4.97	46.28	54.00	-7.72

Duty Cycle=98.21%

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.

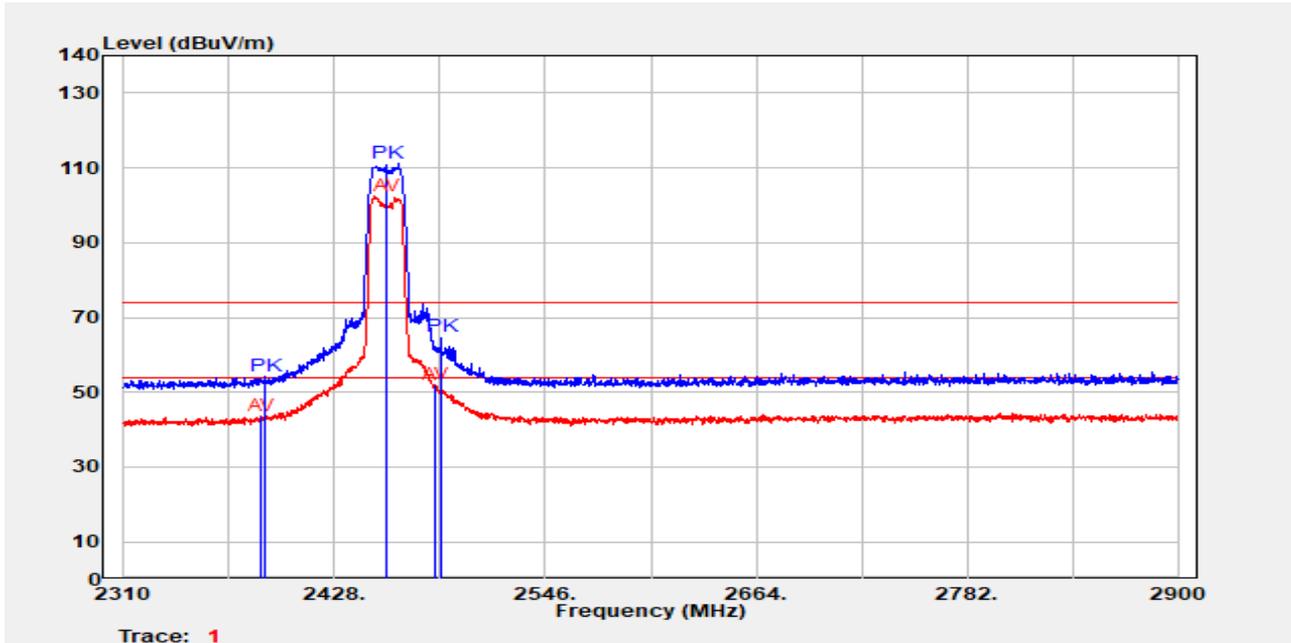
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Report Number :TERF2503001002ER
Operation Mode :802.11n20
Test Frequency :2457 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 2
Test Date :2025-03-28
Temp./Humi. :25.4°C/54%
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
2386.53	Average	48.14	-4.70	43.44	54.00	-10.56
2388.69	Peak	59.04	-4.70	54.34	74.00	-19.66
2457.00	Peak	115.95	-4.95	111.00	-	-
2457.00	Average	107.55	-4.95	102.60	-	-
2483.91	Average	56.93	-4.97	51.96	54.00	-2.04
2487.06	Peak	69.66	-4.97	64.69	74.00	-9.31

Duty Cycle=98.21%

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.

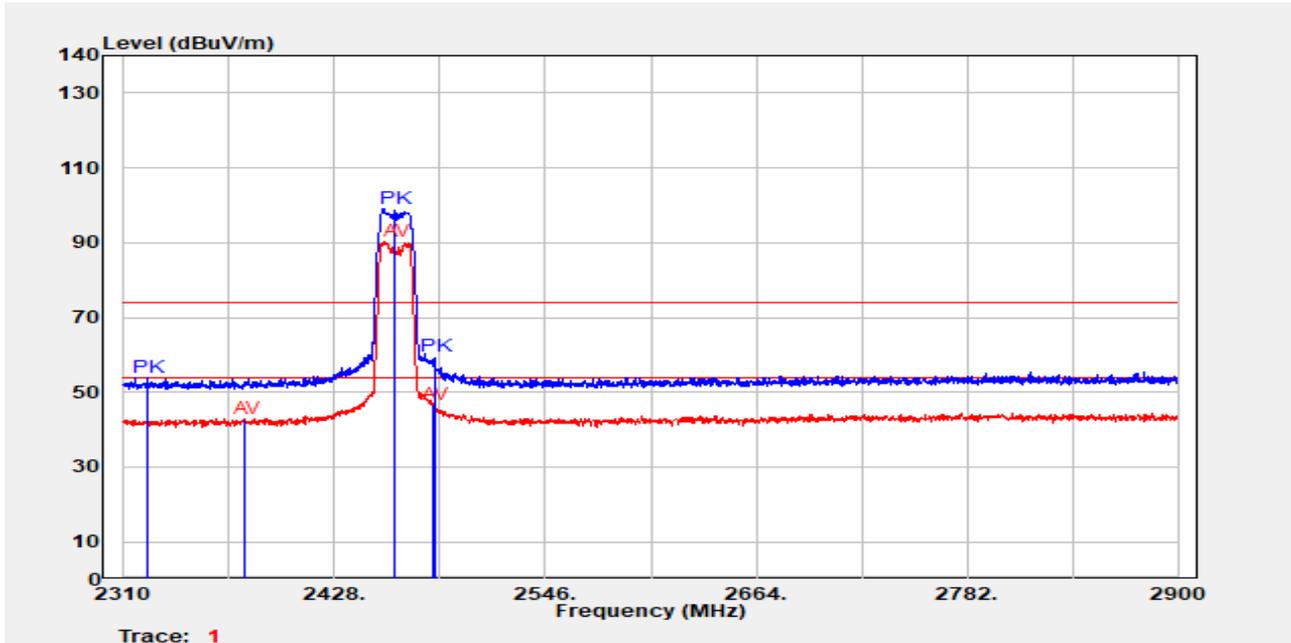
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Report Number :TERF2503001002ER
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC 2
Test Date :2025-03-28
Temp./Humi. :25.4°C/54%
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
2323.38	Peak	58.48	-4.69	53.79	74.00	-20.21
2378.07	Average	47.75	-4.72	43.03	54.00	-10.97
2462.00	Peak	103.96	-4.98	98.98	-	-
2462.00	Average	95.31	-4.98	90.33	-	-
2483.50	Average	51.74	-4.97	46.77	54.00	-7.23
2483.72	Peak	64.52	-4.97	59.55	74.00	-14.45

Duty Cycle=98.21%

Average Duty Factor=0 (dB)

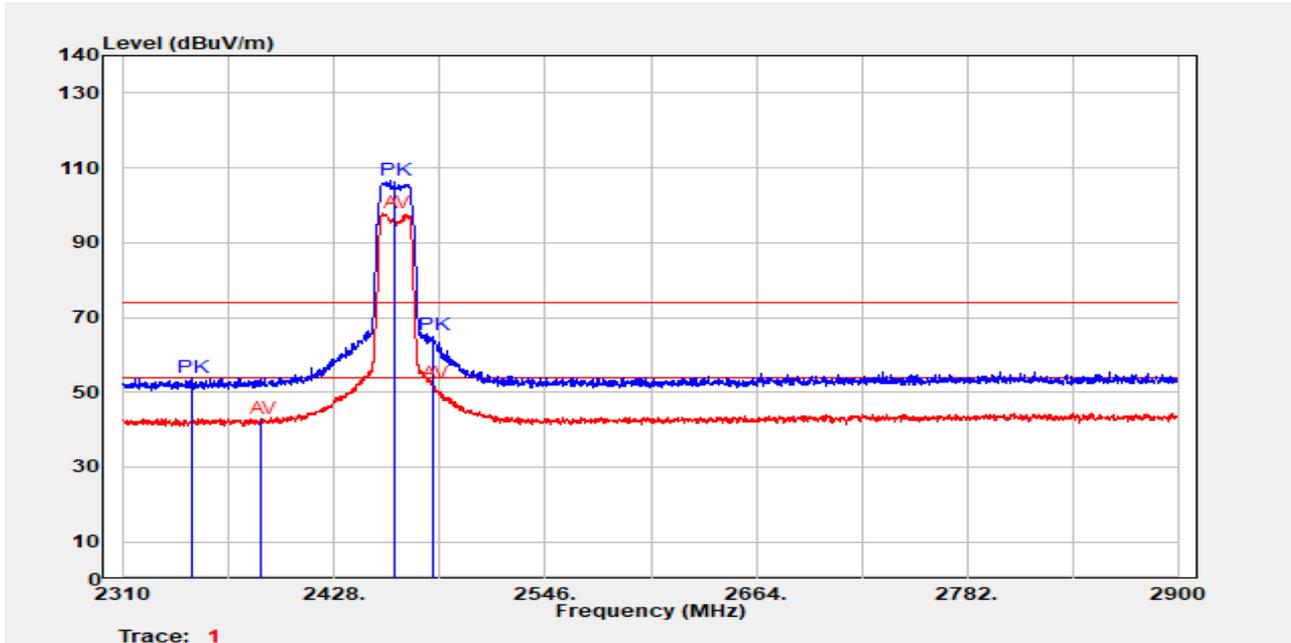
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-28
 Temp./Humi. :25.4°C/54%
 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
2347.58	Peak	58.49	-4.69	53.80	74.00	-20.20
2387.12	Average	47.70	-4.70	43.00	54.00	-11.00
2462.00	Peak	111.42	-4.98	106.44	-	-
2462.00	Average	102.96	-4.98	97.98	-	-
2483.50	Peak	70.20	-4.97	65.23	74.00	-8.77
2483.50	Average	57.32	-4.97	52.35	54.00	-1.65

Duty Cycle=98.21%

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.

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.

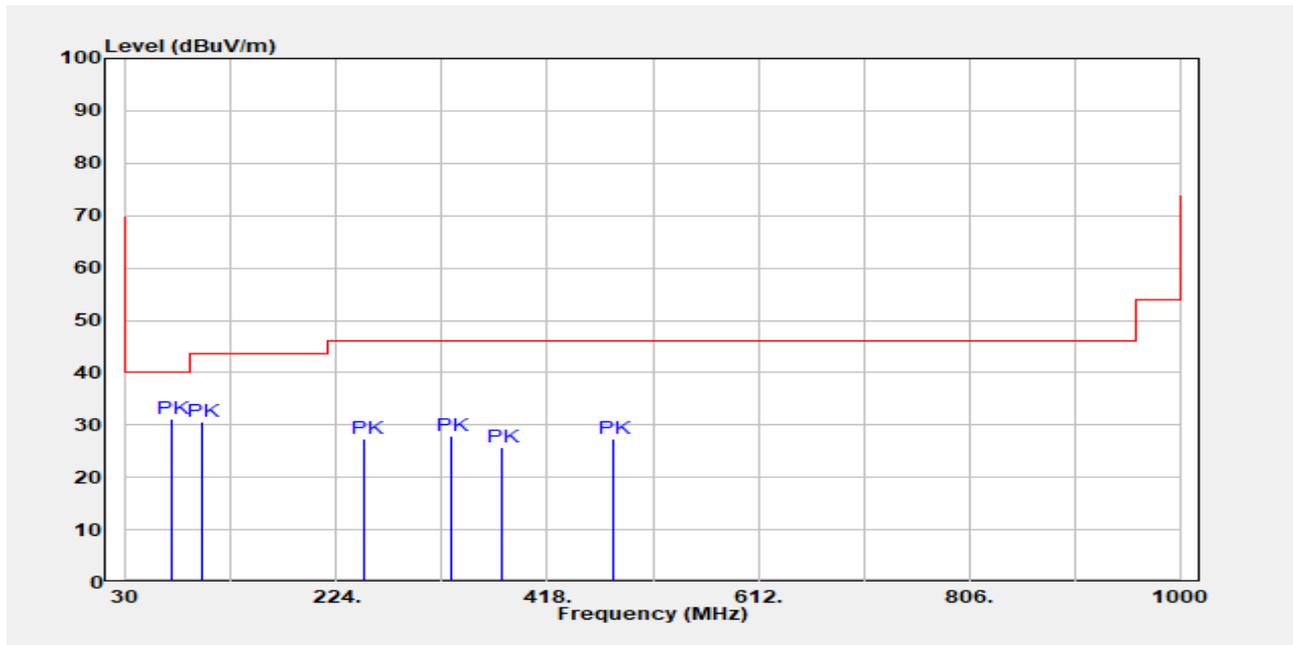
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11.6.2 Spurious Emission:

Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-17
 Temp./Humi. :24.6°C/55%
 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
71.71	Peak	46.34	-15.05	31.29	40.00	-8.71
99.84	Peak	47.96	-17.38	30.58	43.50	-12.92
250.19	Peak	41.05	-13.67	27.38	46.00	-18.62
329.73	Peak	38.73	-10.79	27.94	46.00	-18.06
375.32	Peak	35.31	-9.68	25.63	46.00	-20.37
478.14	Peak	34.56	-7.09	27.47	46.00	-18.53

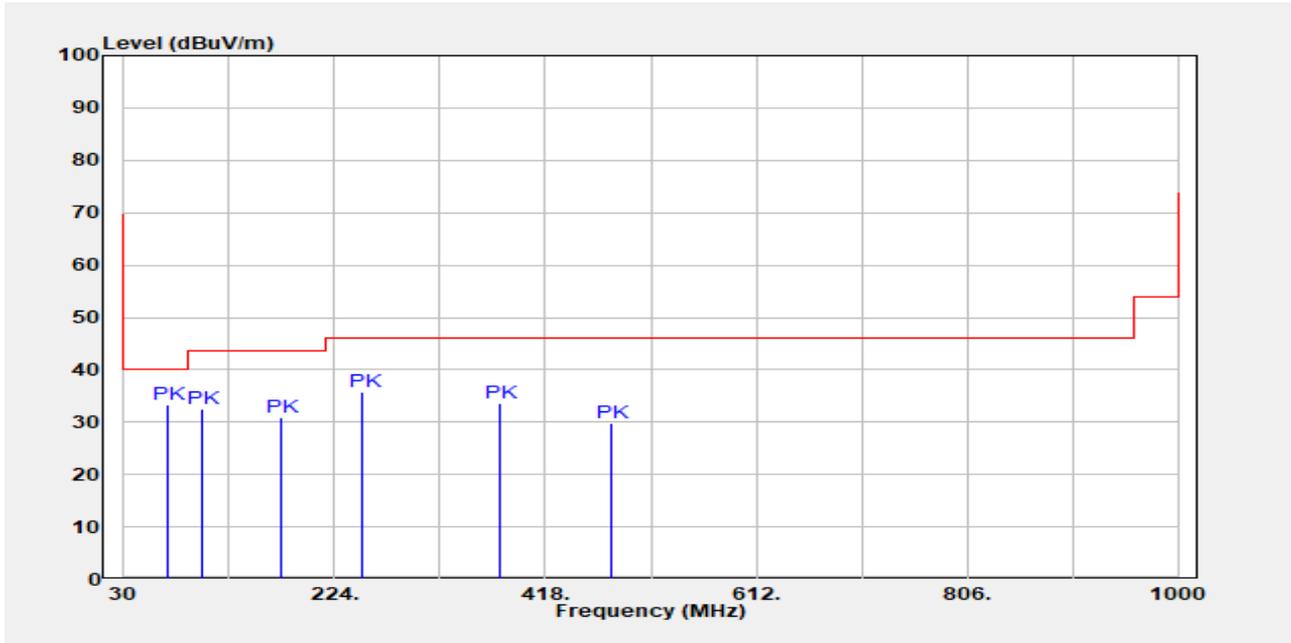
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-17
 Temp./Humi. :24.6°C/55%
 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
69.77	Peak	48.49	-15.04	33.45	40.00	-6.55
101.78	Peak	49.54	-17.06	32.48	43.50	-11.02
175.50	Peak	44.46	-13.43	31.03	43.50	-12.47
250.19	Peak	49.55	-13.67	35.88	46.00	-10.12
375.32	Peak	43.16	-9.68	33.48	46.00	-12.52
479.11	Peak	36.99	-7.06	29.93	46.00	-16.07

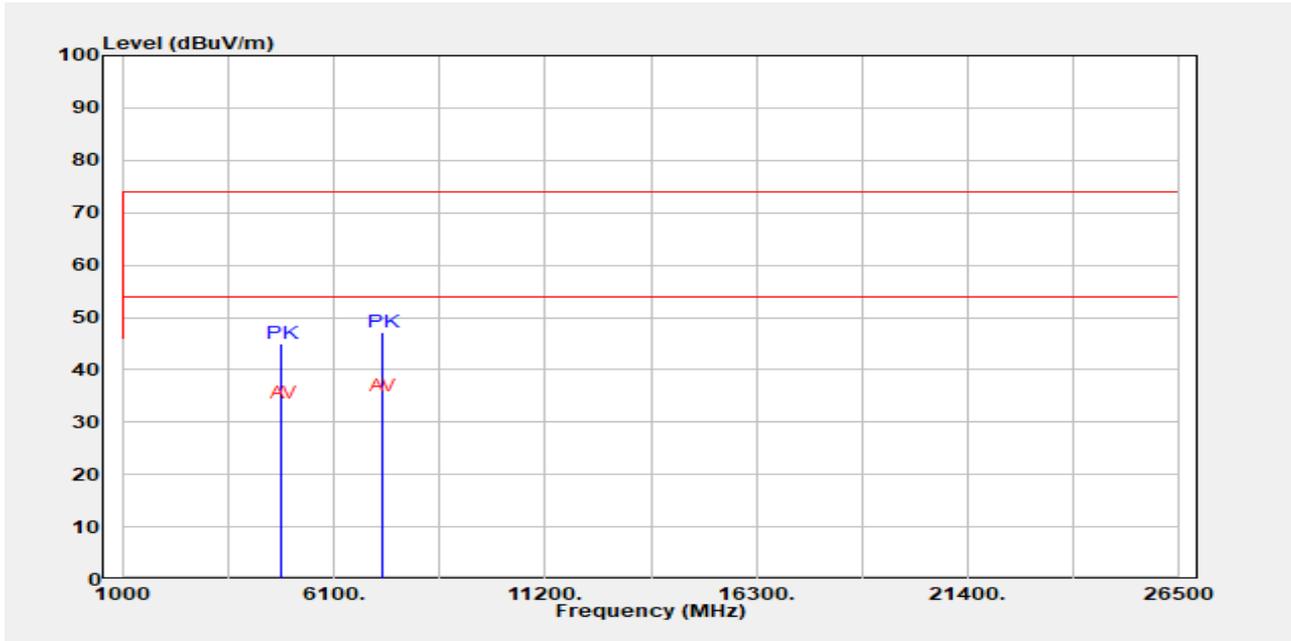
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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4824.00	Peak	42.49	2.37	44.86	74.00	-29.14
4824.00	Average	31.13	2.37	33.50	54.00	-20.50
7236.00	Peak	40.39	6.83	47.22	74.00	-26.78
7236.00	Average	28.03	6.83	34.86	54.00	-19.14

Duty Cycle=99.14%

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.

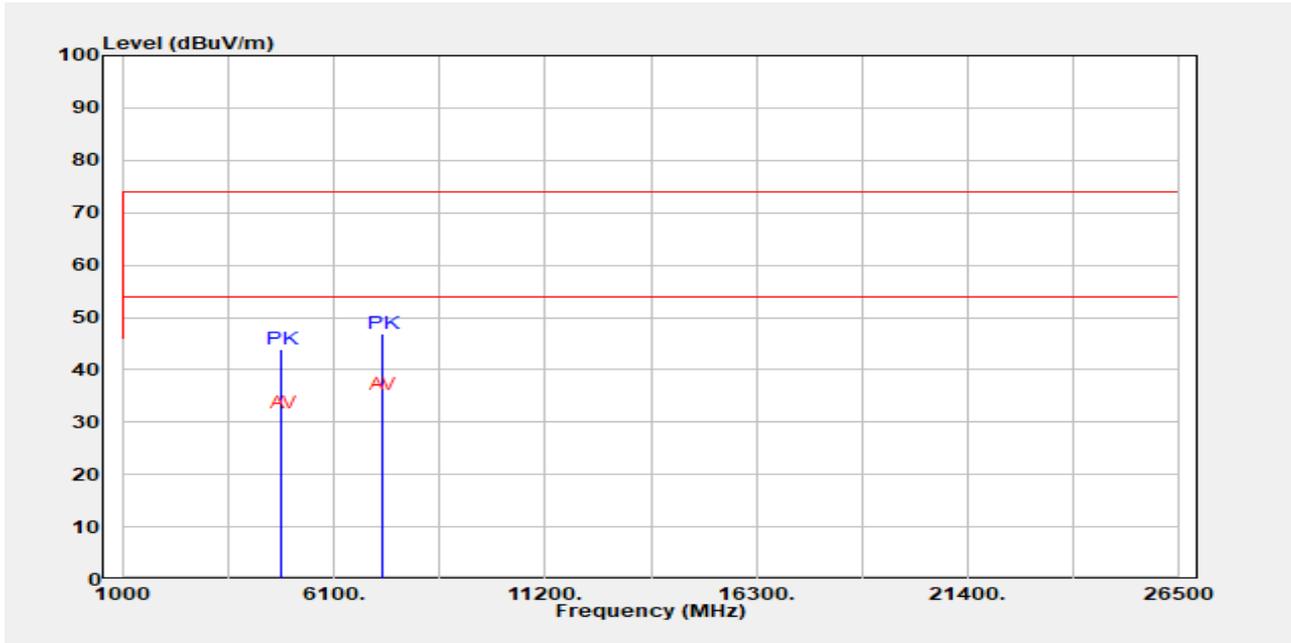
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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4824.00	Peak	41.58	2.37	43.95	74.00	-30.05
4824.00	Average	29.38	2.37	31.75	54.00	-22.25
7236.00	Peak	40.15	6.83	46.98	74.00	-27.02
7236.00	Average	28.42	6.83	35.25	54.00	-18.75

Duty Cycle=99.14%

Average Duty Factor=0 (dB)

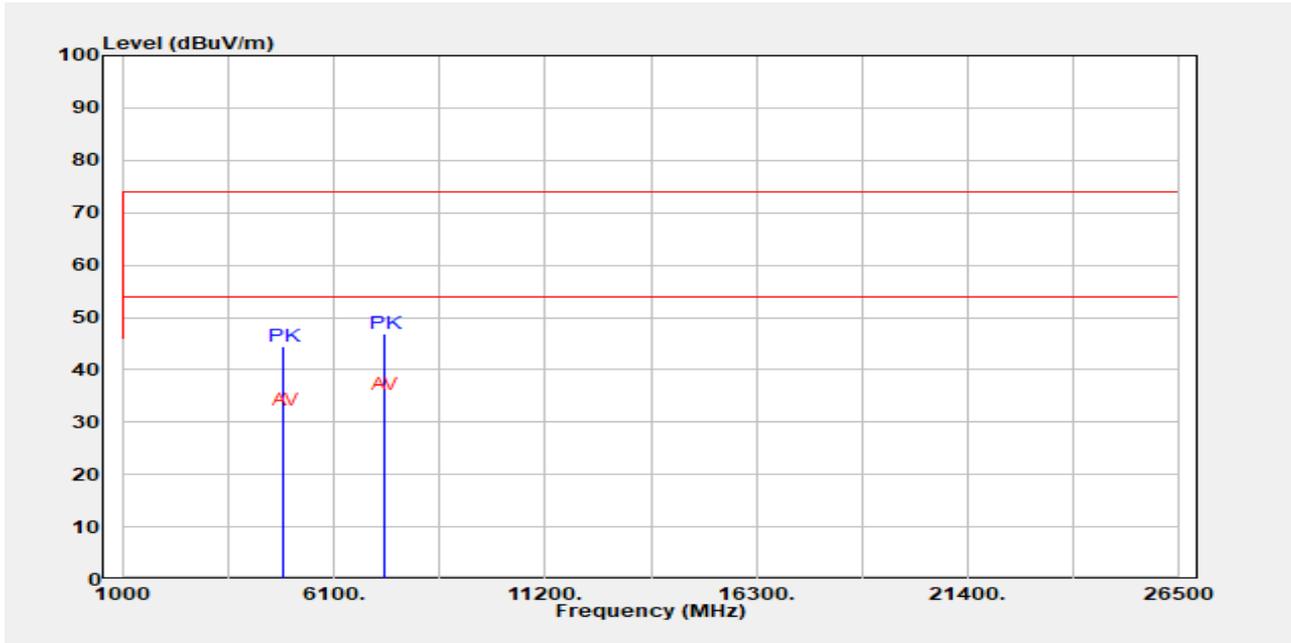
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4874.00	Peak	41.88	2.49	44.37	74.00	-29.63
4874.00	Average	29.63	2.49	32.12	54.00	-21.88
7311.00	Peak	40.11	6.87	46.98	74.00	-27.02
7311.00	Average	28.23	6.87	35.10	54.00	-18.90

Duty Cycle=99.14%

Average Duty Factor=0 (dB)

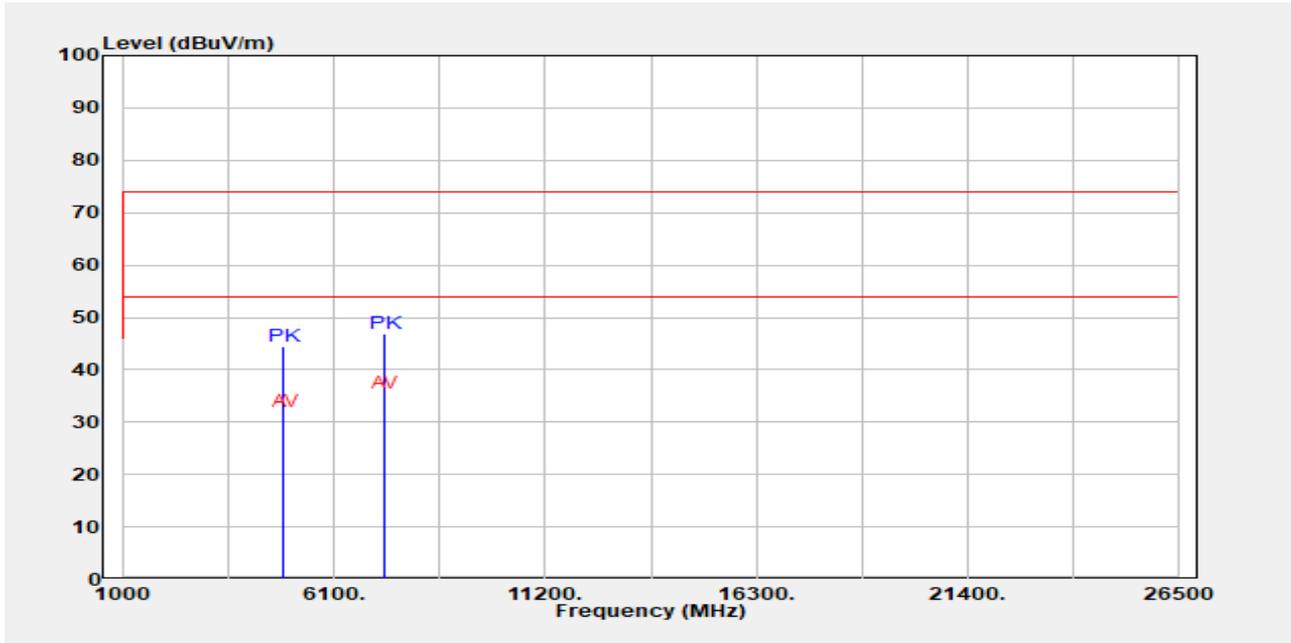
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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	42.07	2.49	44.56	74.00	-29.44
4874.00	Average	29.42	2.49	31.91	54.00	-22.09
7311.00	Peak	40.10	6.87	46.97	74.00	-27.03
7311.00	Average	28.67	6.87	35.54	54.00	-18.46

Duty Cycle=99.14%

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.

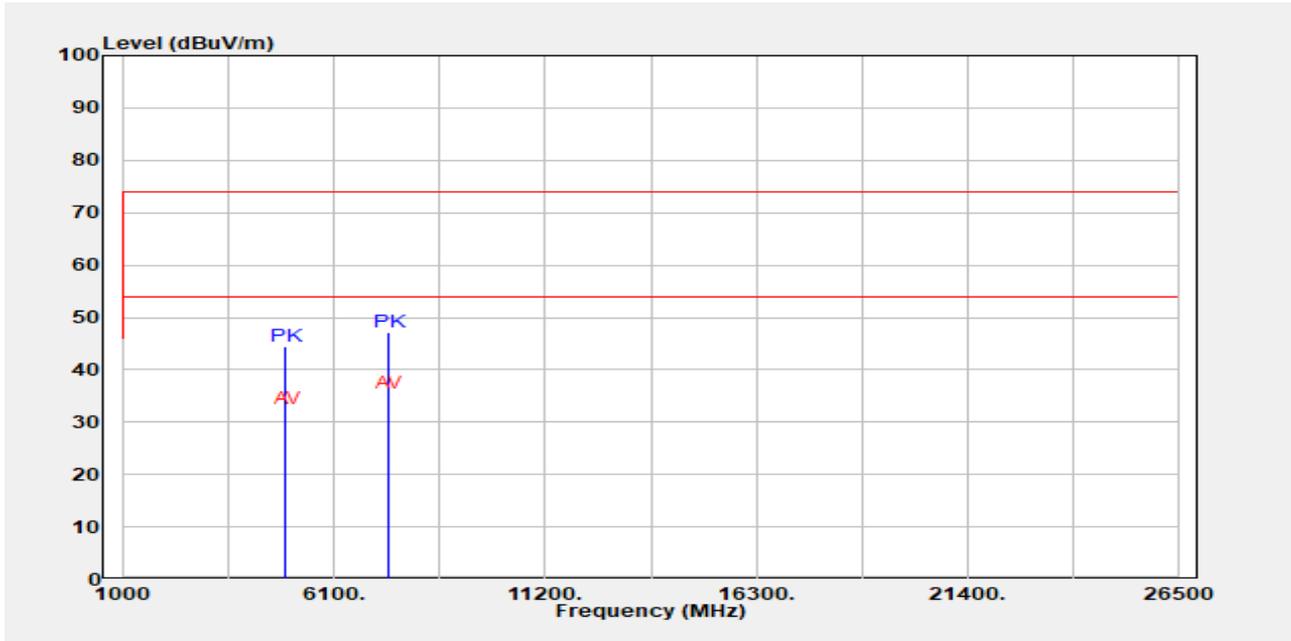
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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4924.00	Peak	41.84	2.66	44.50	74.00	-29.50
4924.00	Average	29.88	2.66	32.54	54.00	-21.46
7386.00	Peak	40.12	7.09	47.21	74.00	-26.79
7386.00	Average	28.30	7.09	35.39	54.00	-18.61

Duty Cycle=99.14%

Average Duty Factor=0 (dB)

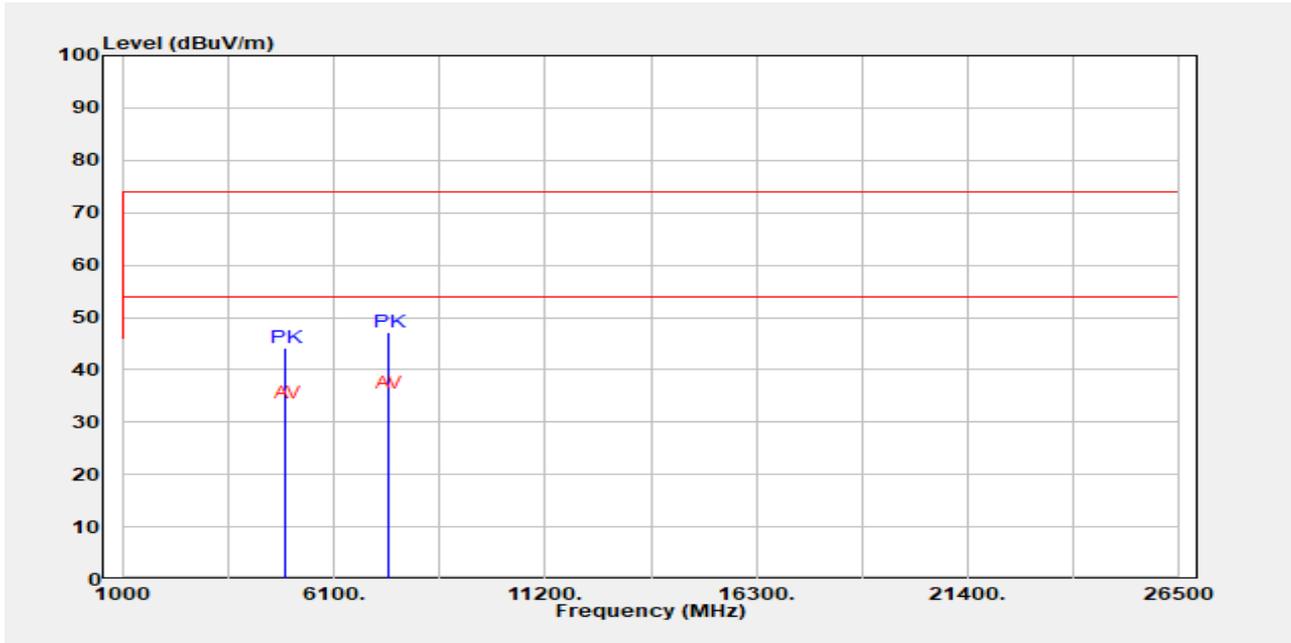
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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	41.51	2.66	44.17	74.00	-29.83
4924.00	Average	30.98	2.66	33.64	54.00	-20.36
7386.00	Peak	40.04	7.09	47.13	74.00	-26.87
7386.00	Average	28.38	7.09	35.47	54.00	-18.53

Duty Cycle=99.14%

Average Duty Factor=0 (dB)

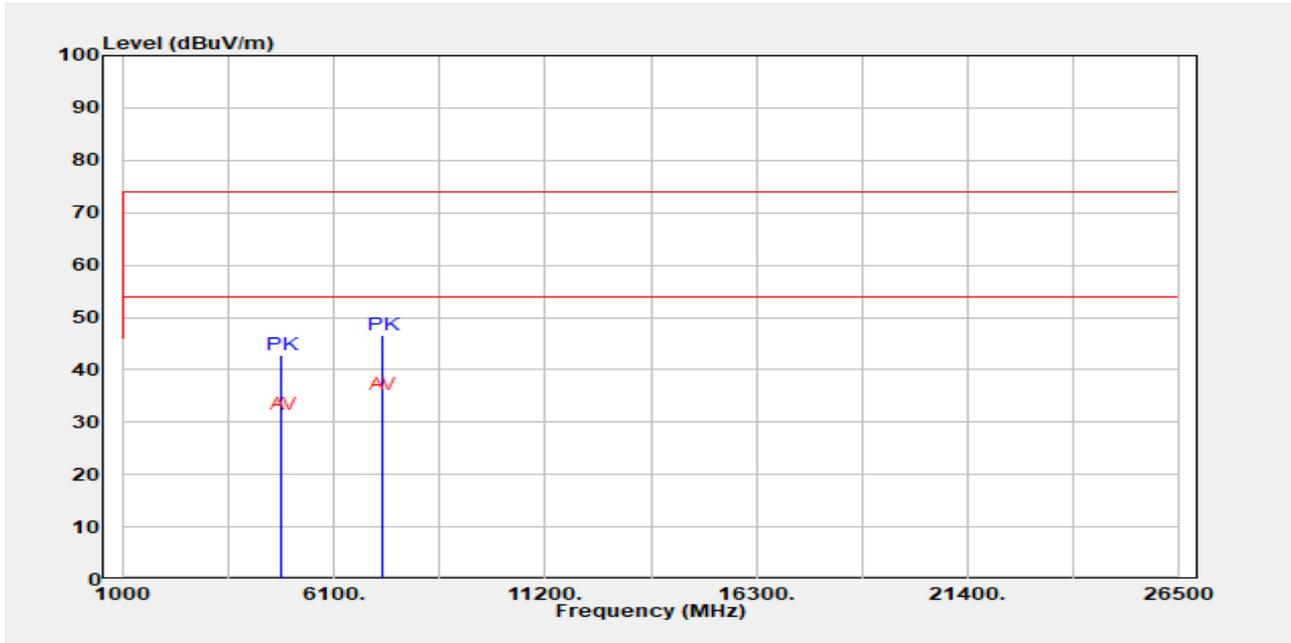
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4824.00	Peak	40.39	2.37	42.76	74.00	-31.24
4824.00	Average	29.14	2.37	31.51	54.00	-22.49
7236.00	Peak	39.67	6.83	46.50	74.00	-27.50
7236.00	Average	28.36	6.83	35.19	54.00	-18.81

Duty Cycle=98.33%

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.

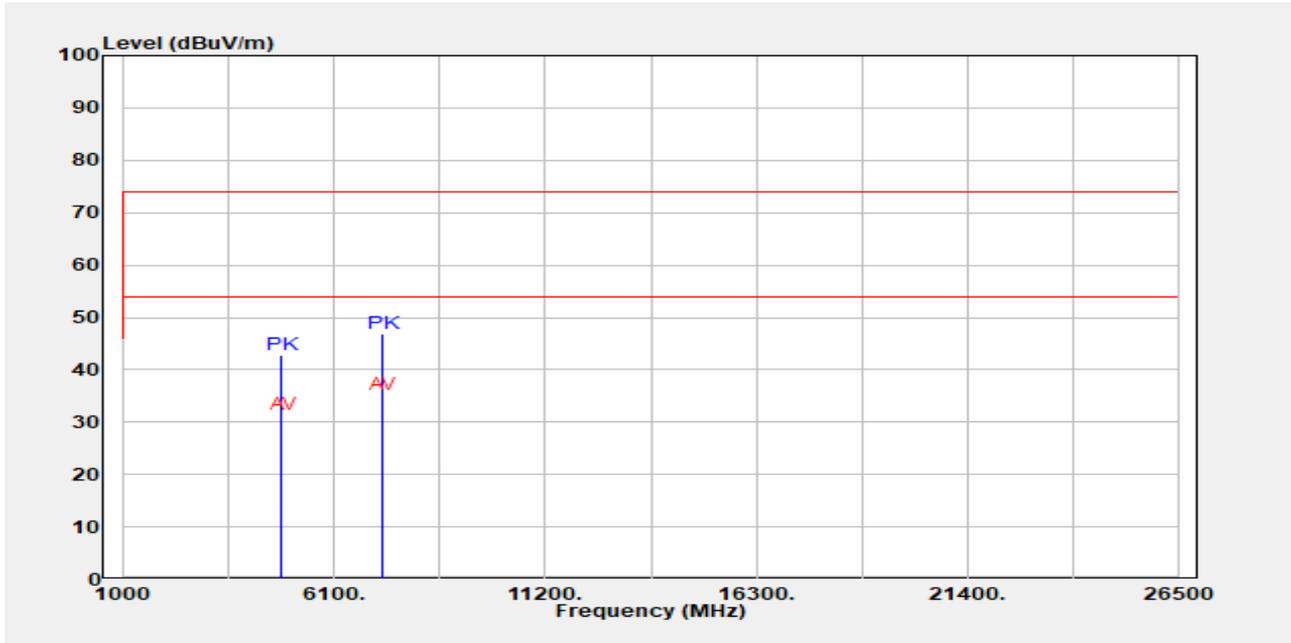
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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4824.00	Peak	40.55	2.37	42.92	74.00	-31.08
4824.00	Average	29.18	2.37	31.55	54.00	-22.45
7236.00	Peak	40.11	6.83	46.94	74.00	-27.06
7236.00	Average	28.29	6.83	35.12	54.00	-18.88

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

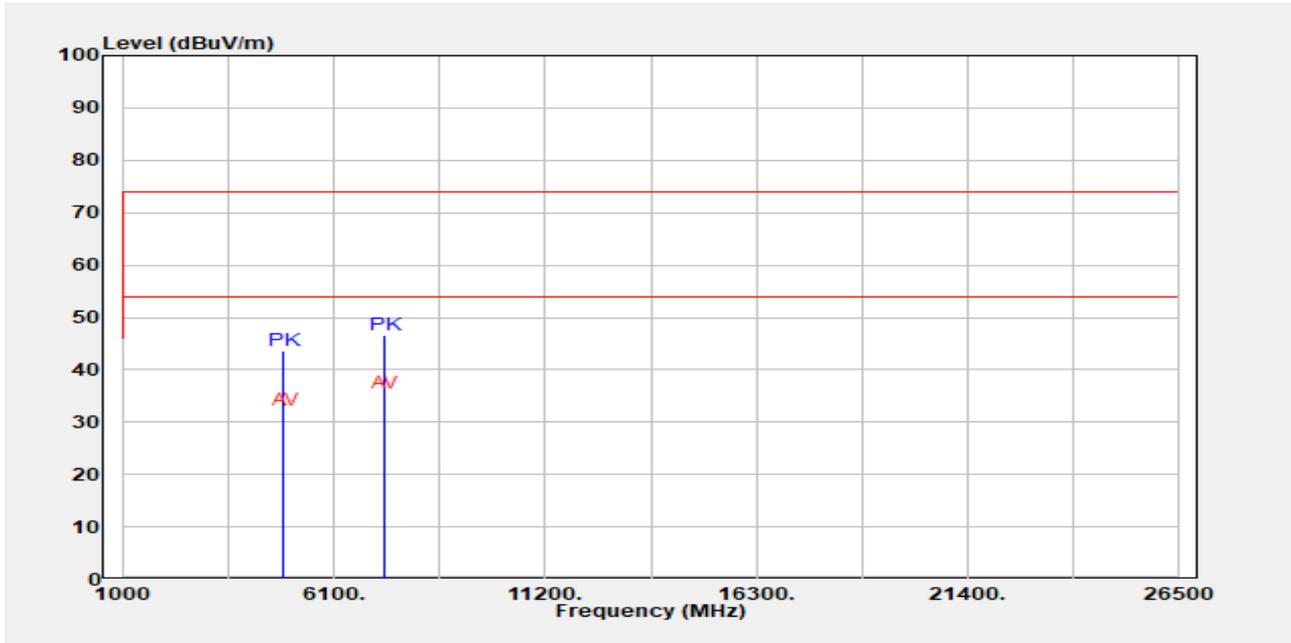
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4874.00	Peak	41.05	2.49	43.54	74.00	-30.46
4874.00	Average	29.71	2.49	32.20	54.00	-21.80
7311.00	Peak	39.74	6.87	46.61	74.00	-27.39
7311.00	Average	28.54	6.87	35.41	54.00	-18.59

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

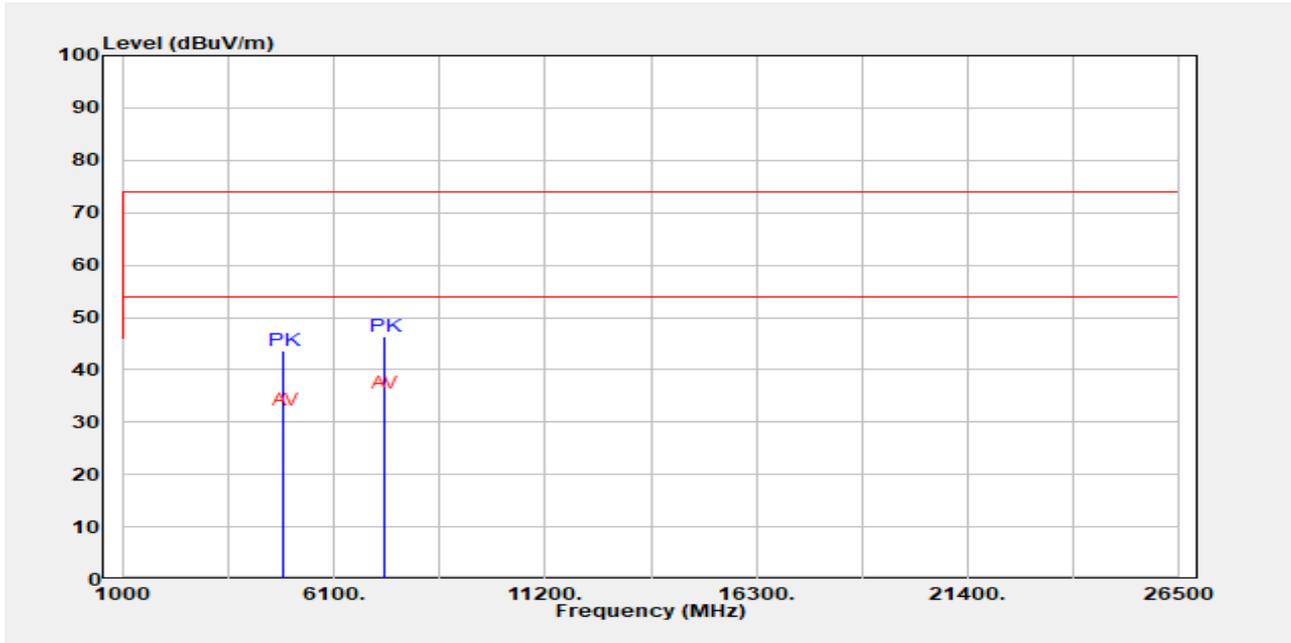
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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	41.27	2.49	43.76	74.00	-30.24
4874.00	Average	29.70	2.49	32.19	54.00	-21.81
7311.00	Peak	39.54	6.87	46.41	74.00	-27.59
7311.00	Average	28.68	6.87	35.55	54.00	-18.45

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

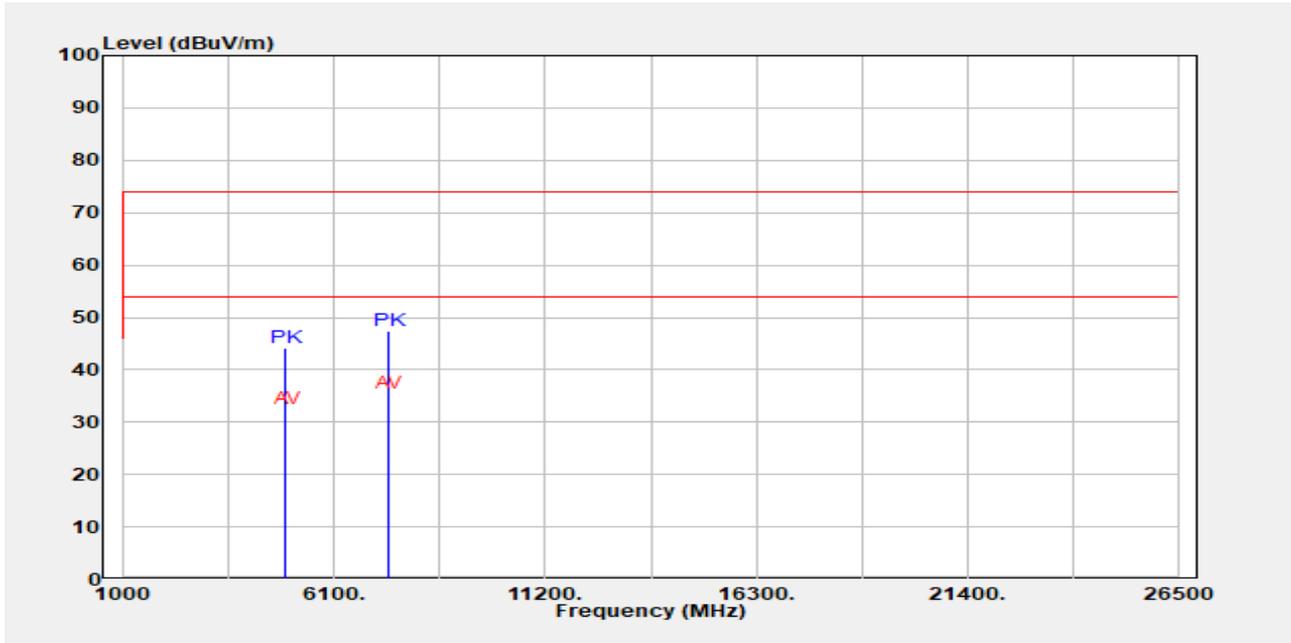
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4924.00	Peak	41.41	2.66	44.07	74.00	-29.93
4924.00	Average	29.90	2.66	32.56	54.00	-21.44
7386.00	Peak	40.47	7.09	47.56	74.00	-26.44
7386.00	Average	28.49	7.09	35.58	54.00	-18.42

Duty Cycle=98.33%

Average Duty Factor=0 (dB)

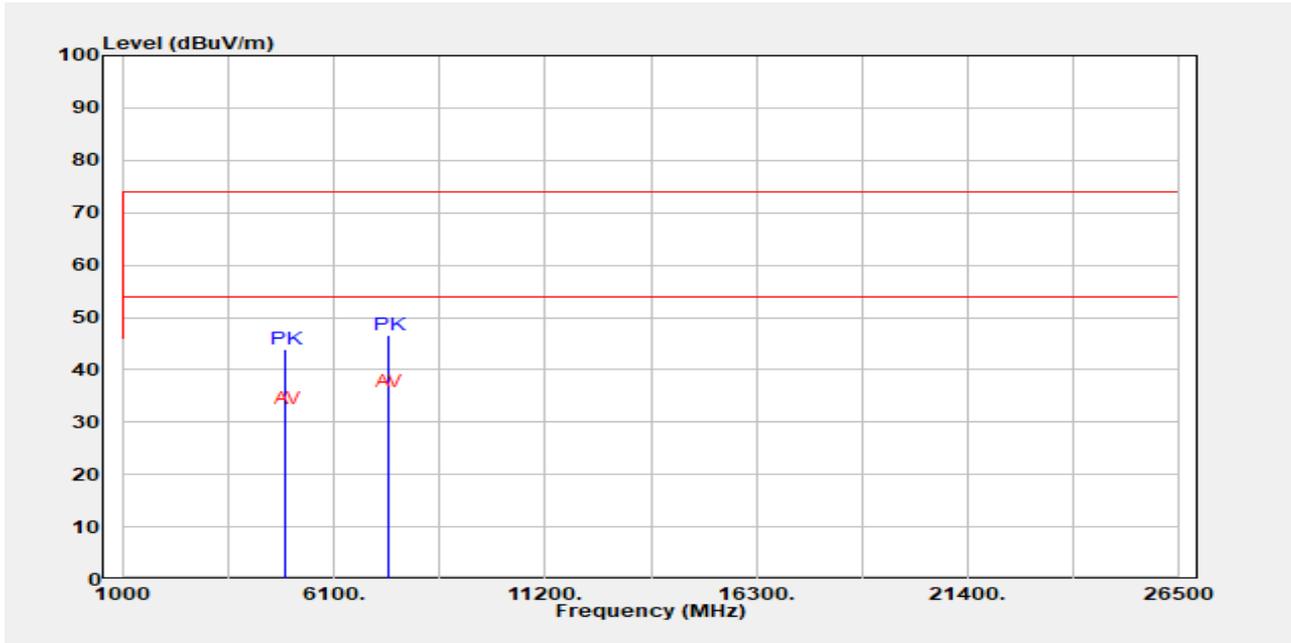
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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	41.31	2.66	43.97	74.00	-30.03
4924.00	Average	29.88	2.66	32.54	54.00	-21.46
7386.00	Peak	39.59	7.09	46.68	74.00	-27.32
7386.00	Average	28.61	7.09	35.70	54.00	-18.30

Duty Cycle=98.33%

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.

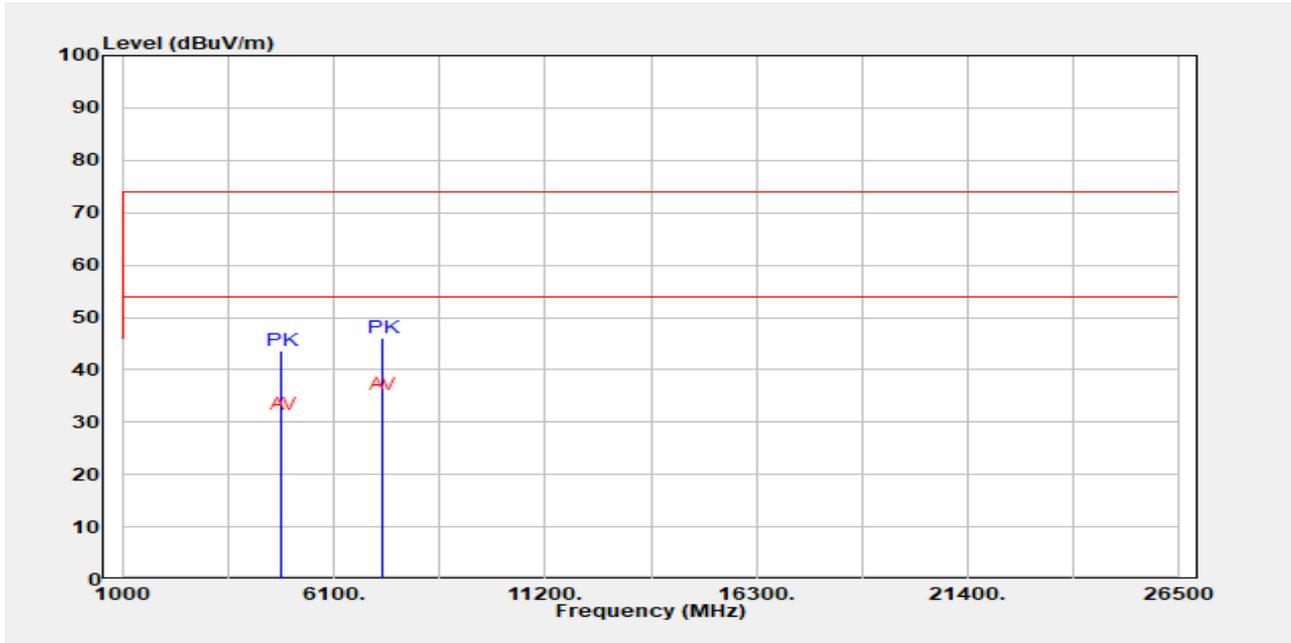
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4824.00	Peak	41.29	2.37	43.66	74.00	-30.34
4824.00	Average	29.17	2.37	31.54	54.00	-22.46
7236.00	Peak	39.29	6.83	46.12	74.00	-27.88
7236.00	Average	28.42	6.83	35.25	54.00	-18.75

Duty Cycle=98.21%

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.

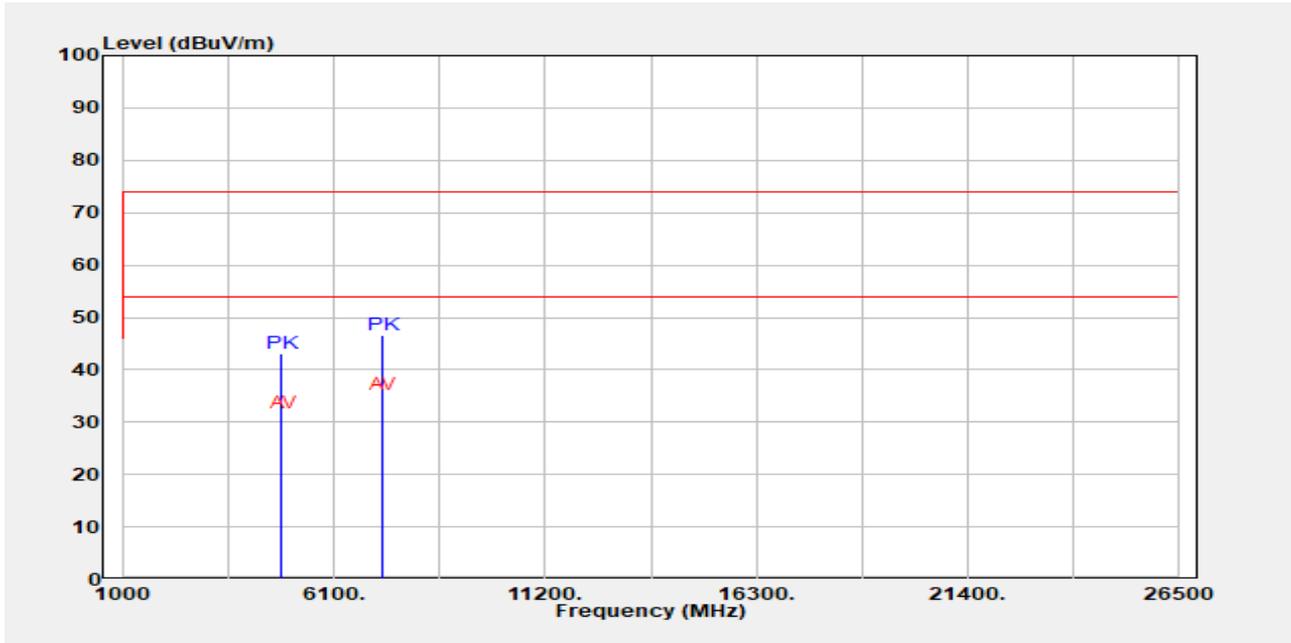
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4824.00	Peak	40.65	2.37	43.02	74.00	-30.98
4824.00	Average	29.42	2.37	31.79	54.00	-22.21
7236.00	Peak	39.89	6.83	46.72	74.00	-27.28
7236.00	Average	28.49	6.83	35.32	54.00	-18.68

Duty Cycle=98.21%

Average Duty Factor=0 (dB)

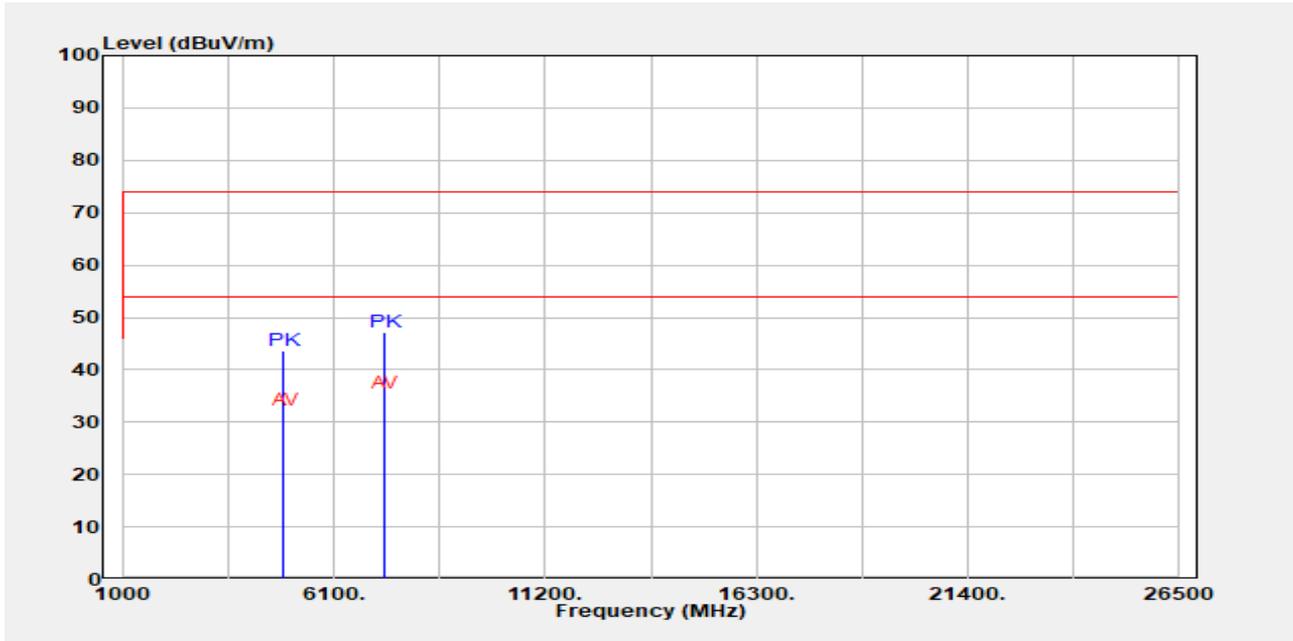
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC 2
Test Date :2025-03-14
Temp./Humi. :24.6°C/55%
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
4874.00	Peak	41.18	2.49	43.67	74.00	-30.33
4874.00	Average	29.81	2.49	32.30	54.00	-21.70
7311.00	Peak	40.42	6.87	47.29	74.00	-26.71
7311.00	Average	28.55	6.87	35.42	54.00	-18.58

Duty Cycle=98.21%

Average Duty Factor=0 (dB)

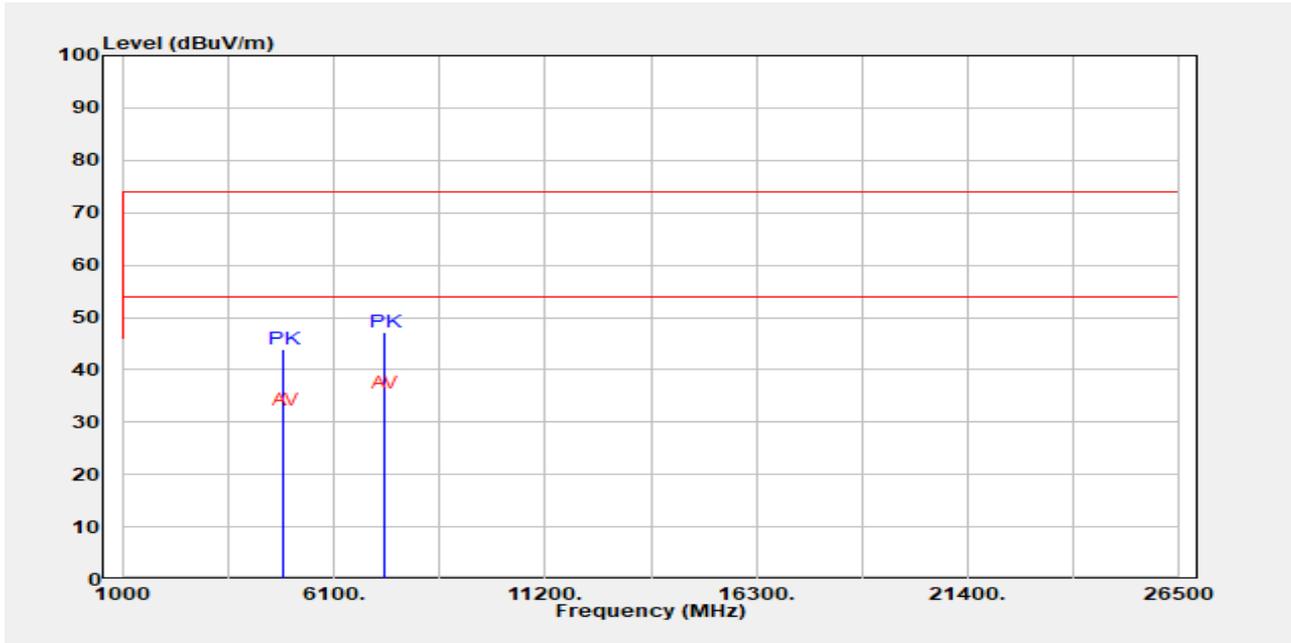
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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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	41.48	2.49	43.97	74.00	-30.03
4874.00	Average	29.80	2.49	32.29	54.00	-21.71
7311.00	Peak	40.26	6.87	47.13	74.00	-26.87
7311.00	Average	28.68	6.87	35.55	54.00	-18.45

Duty Cycle=98.21%

Average Duty Factor=0 (dB)

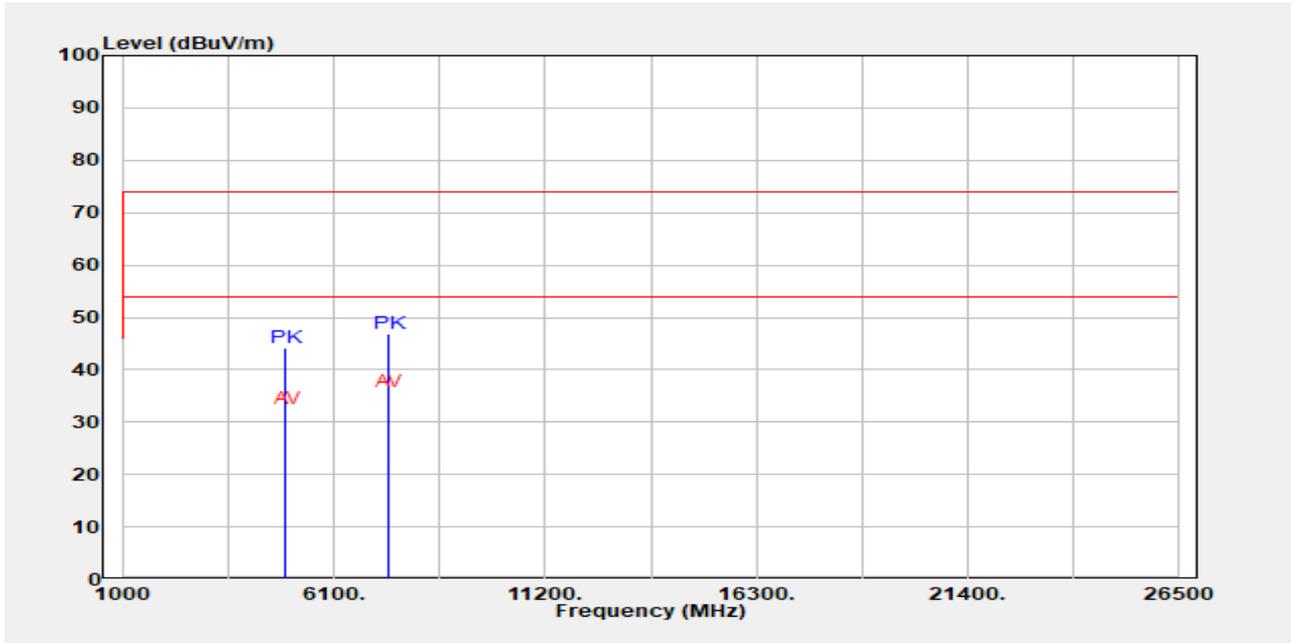
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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
4924.00	Peak	41.50	2.66	44.16	74.00	-29.84
4924.00	Average	29.98	2.66	32.64	54.00	-21.36
7386.00	Peak	39.72	7.09	46.81	74.00	-27.19
7386.00	Average	28.59	7.09	35.68	54.00	-18.32

Duty Cycle=98.21%

Average Duty Factor=0 (dB)

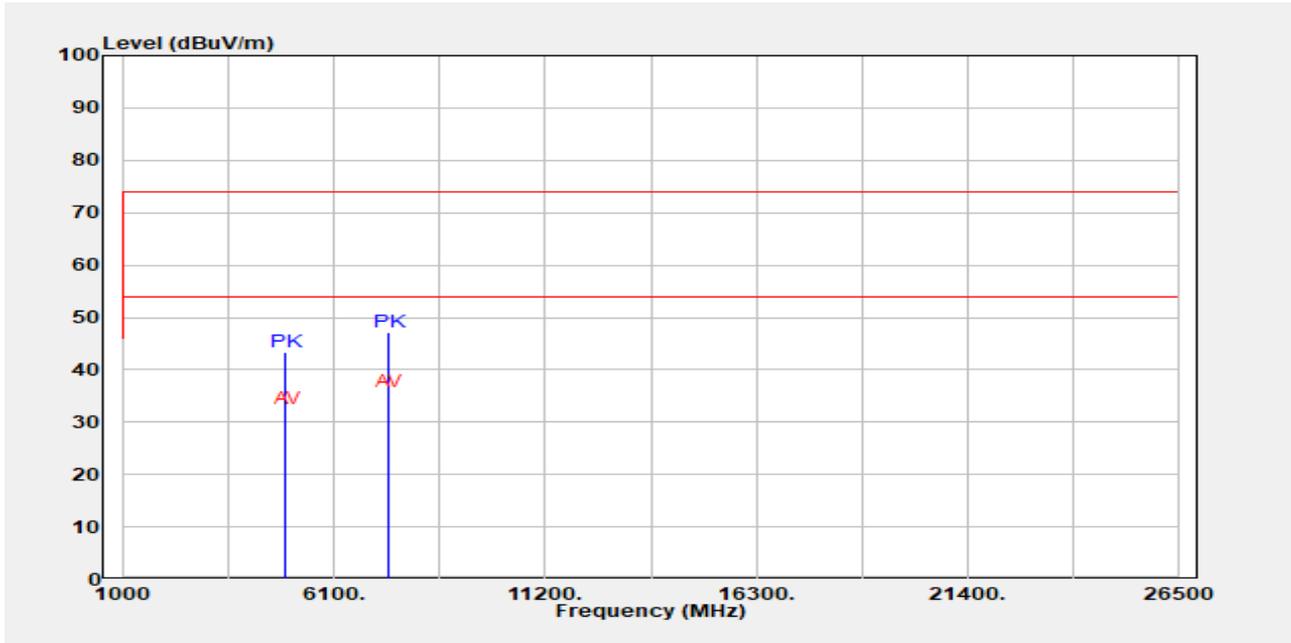
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2503001002ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC 2
 Test Date :2025-03-14
 Temp./Humi. :24.6°C/55%
 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	40.79	2.66	43.45	74.00	-30.55
4924.00	Average	29.80	2.66	32.46	54.00	-21.54
7386.00	Peak	40.07	7.09	47.16	74.00	-26.84
7386.00	Average	28.61	7.09	35.70	54.00	-18.30

Duty Cycle=98.21%

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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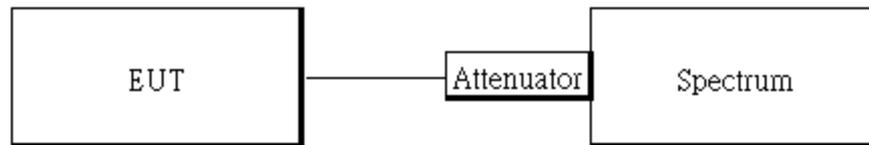
12 POWER SPECTRAL DENSITY

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	-7.22	-7.22	8.00	PASS
2437	-4.42	-4.42	8.00	PASS
2462	-8	-8.00	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.02	-11.02	8.00	PASS
2437	-7.41	-7.41	8.00	PASS
2462	-14.09	-14.09	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.33	-11.33	8.00	PASS
2437	-7.91	-7.91	8.00	PASS
2462	-14.21	-14.21	8.00	PASS

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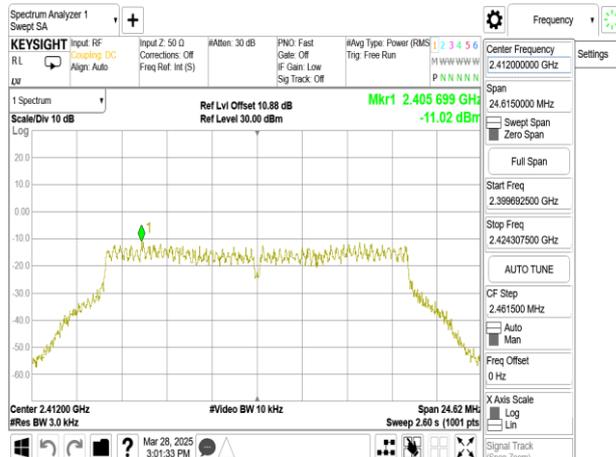
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802.11b_20MHz_Chain1_2412MHz



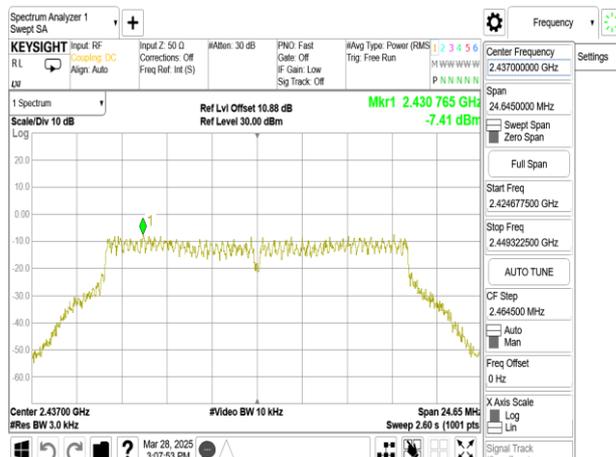
802.11g_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain1_2437MHz



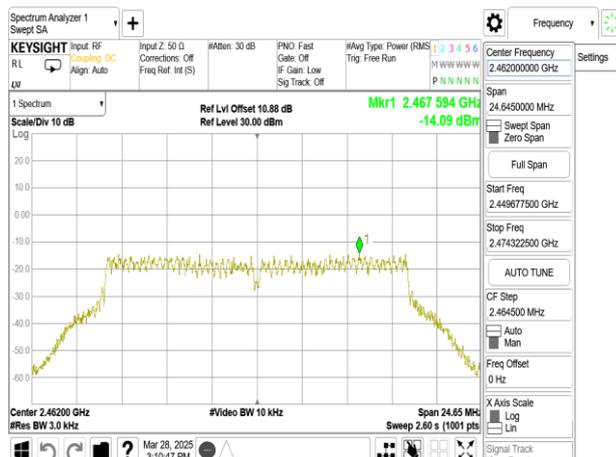
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz



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