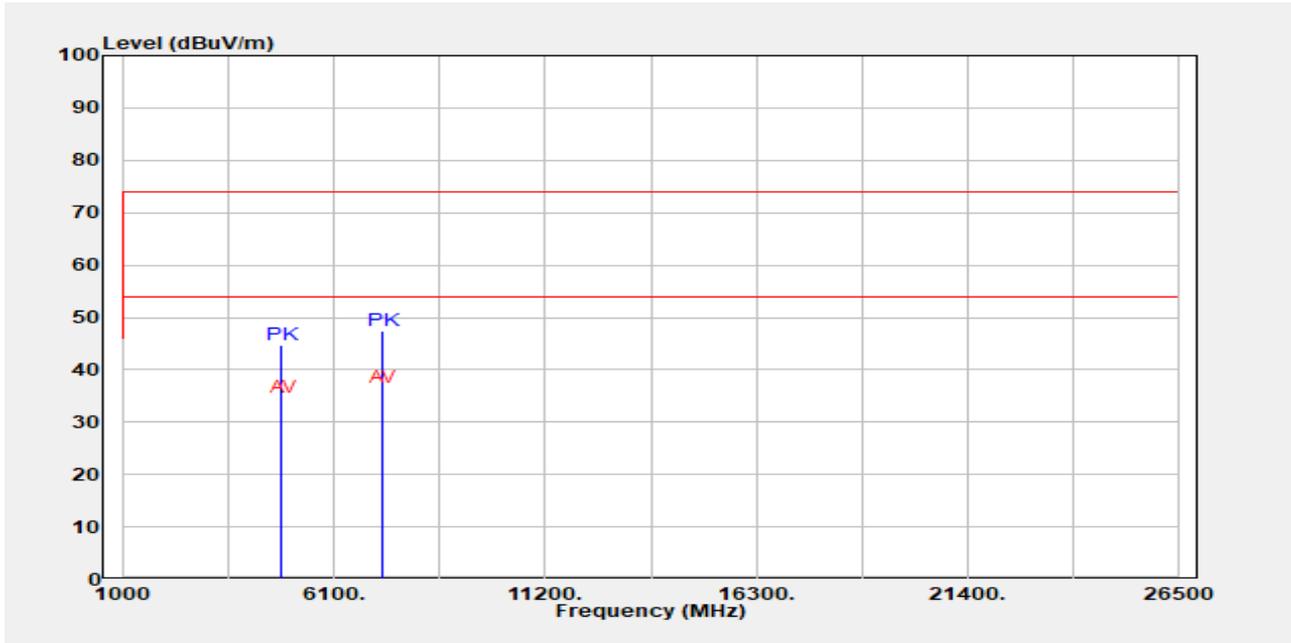


Report Number :TERF2501000495ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	42.27	2.42	44.69	74.00	-29.31
4824.00	Average	32.27	2.42	34.69	54.00	-19.31
7236.00	Peak	40.47	7.06	47.53	74.00	-26.47
7236.00	Average	29.53	7.06	36.59	54.00	-17.41

Duty Cycle=99.43%

Average Duty Factor=0 (dB)

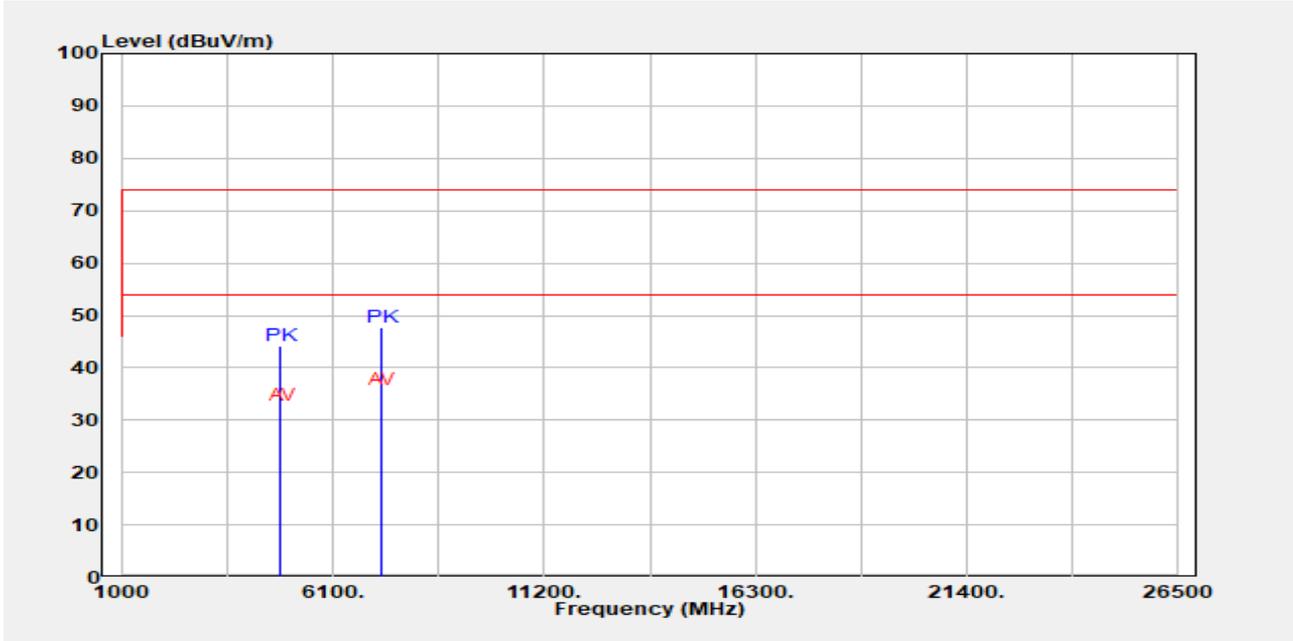
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000495ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.87	2.42	44.29	74.00	-29.71
4824.00	Average	30.37	2.42	32.79	54.00	-21.21
7236.00	Peak	40.68	7.06	47.74	74.00	-26.26
7236.00	Average	28.73	7.06	35.79	54.00	-18.21

Duty Cycle=99.43%

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.

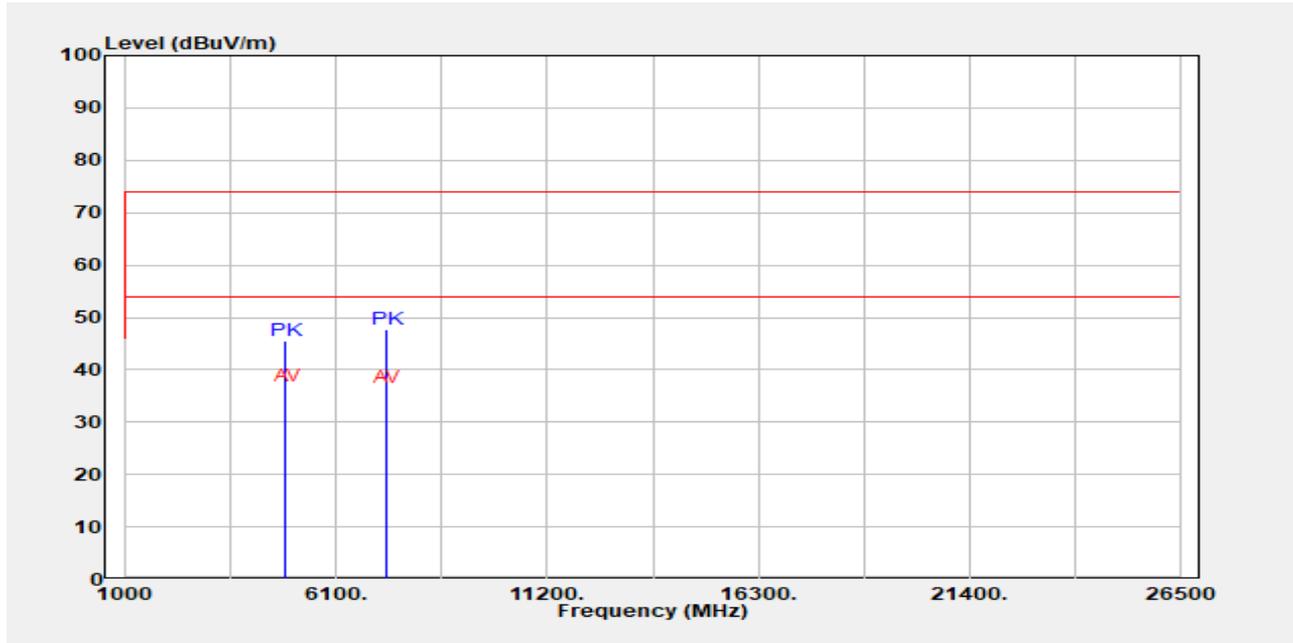
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Report Number :TERF2501000495ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	43.03	2.54	45.57	74.00	-28.43
4874.00	Average	34.20	2.54	36.74	54.00	-17.26
7311.00	Peak	40.63	7.19	47.82	74.00	-26.18
7311.00	Average	29.34	7.19	36.53	54.00	-17.47

Duty Cycle=99.43%

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.

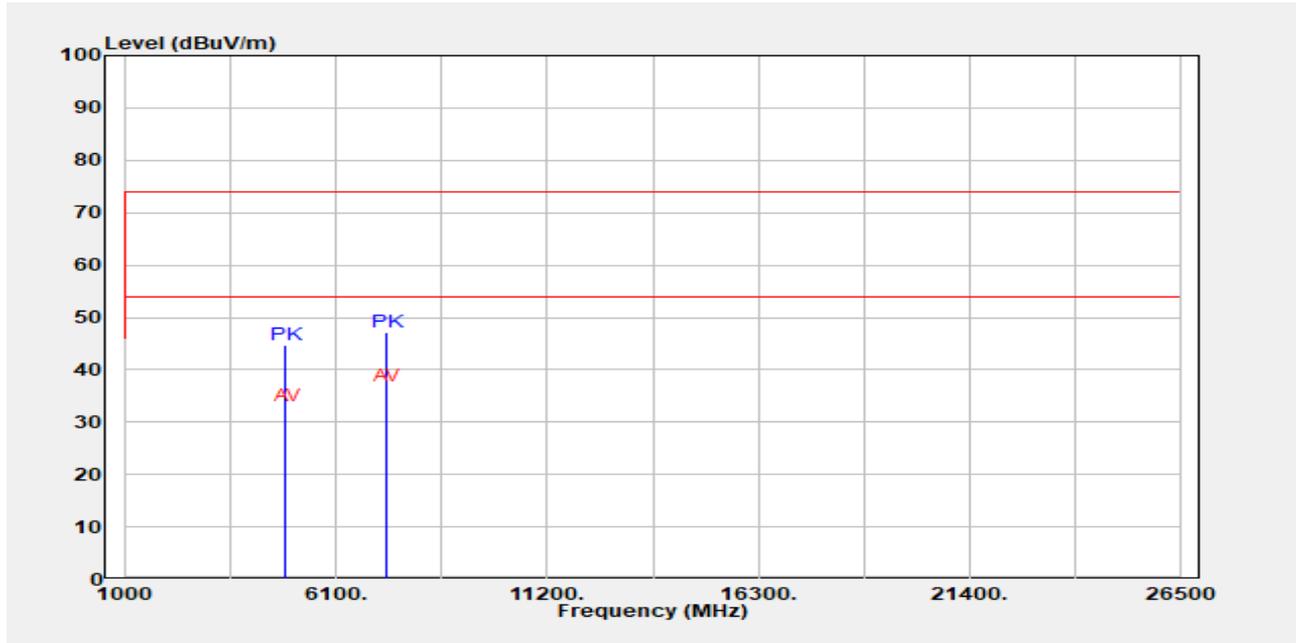
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Report Number :TERF2501000495ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	42.22	2.54	44.76	74.00	-29.24
4874.00	Average	30.63	2.54	33.17	54.00	-20.83
7311.00	Peak	39.87	7.19	47.06	74.00	-26.94
7311.00	Average	29.57	7.19	36.76	54.00	-17.24

Duty Cycle=99.43%

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.

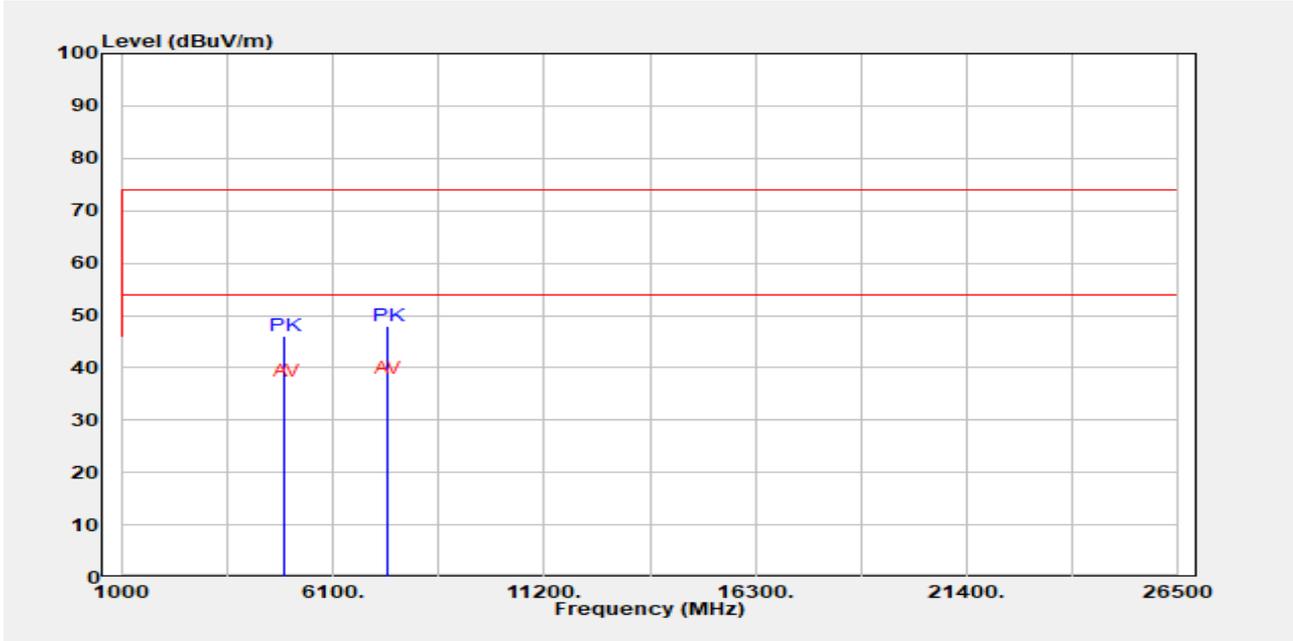
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Report Number :TERF2501000495ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	43.33	2.71	46.04	74.00	-27.96
4924.00	Average	34.57	2.71	37.28	54.00	-16.72
7386.00	Peak	40.48	7.42	47.90	74.00	-26.10
7386.00	Average	30.51	7.42	37.93	54.00	-16.07

Duty Cycle=99.43%

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.

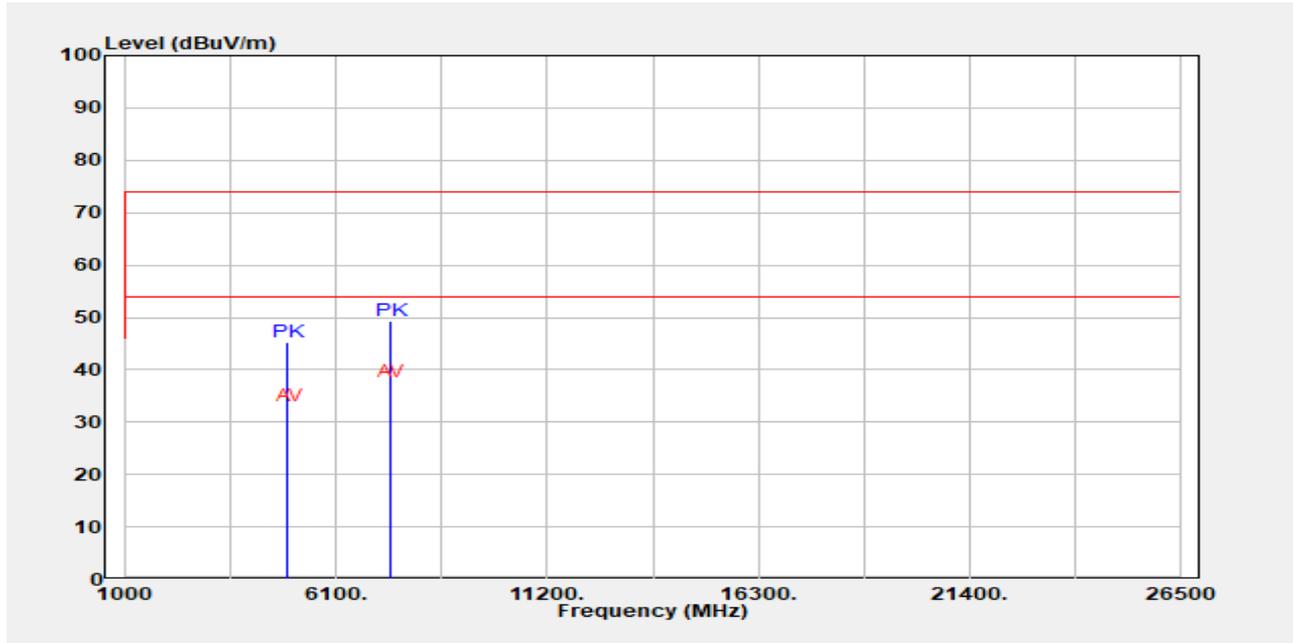
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Report Number :TERF2501000495ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Peak	42.58	2.71	45.29	74.00	-28.71
4924.00	Average	30.32	2.71	33.03	54.00	-20.97
7386.00	Peak	41.99	7.42	49.41	74.00	-24.59
7386.00	Average	30.21	7.42	37.63	54.00	-16.37

Duty Cycle=99.43%

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.

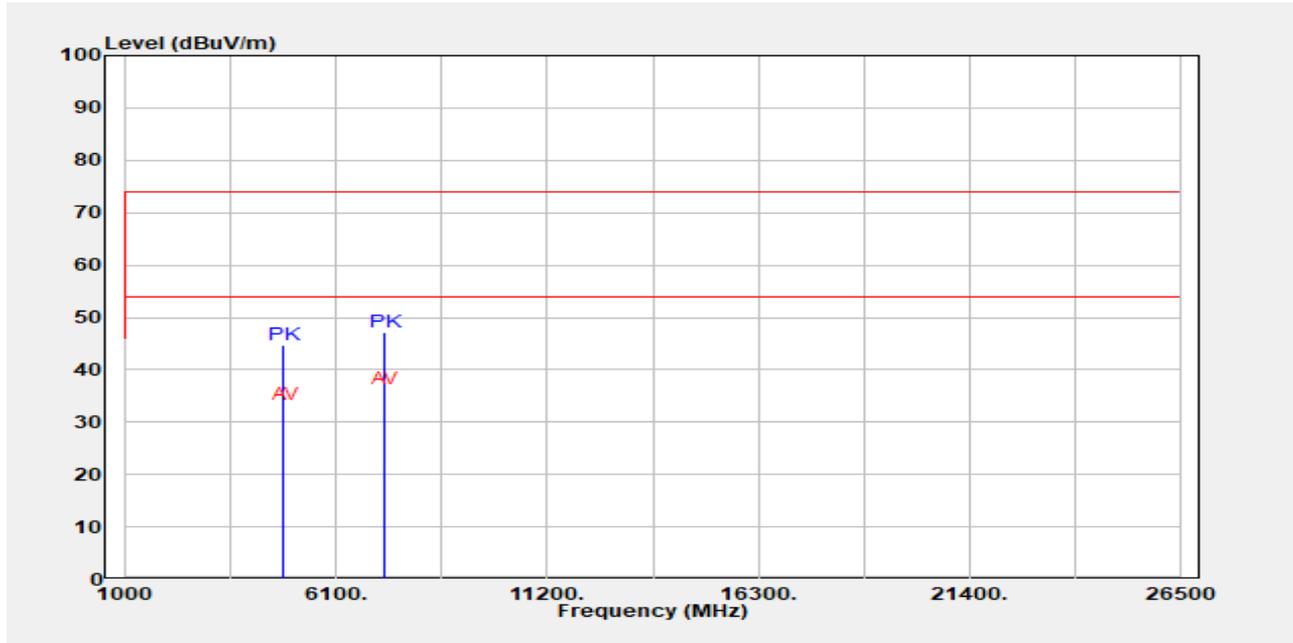
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Report Number :TERF2501000495ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	42.31	2.42	44.73	74.00	-29.27
4824.00	Average	30.88	2.42	33.30	54.00	-20.70
7236.00	Peak	40.09	7.06	47.15	74.00	-26.85
7236.00	Average	29.15	7.06	36.21	54.00	-17.79

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

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

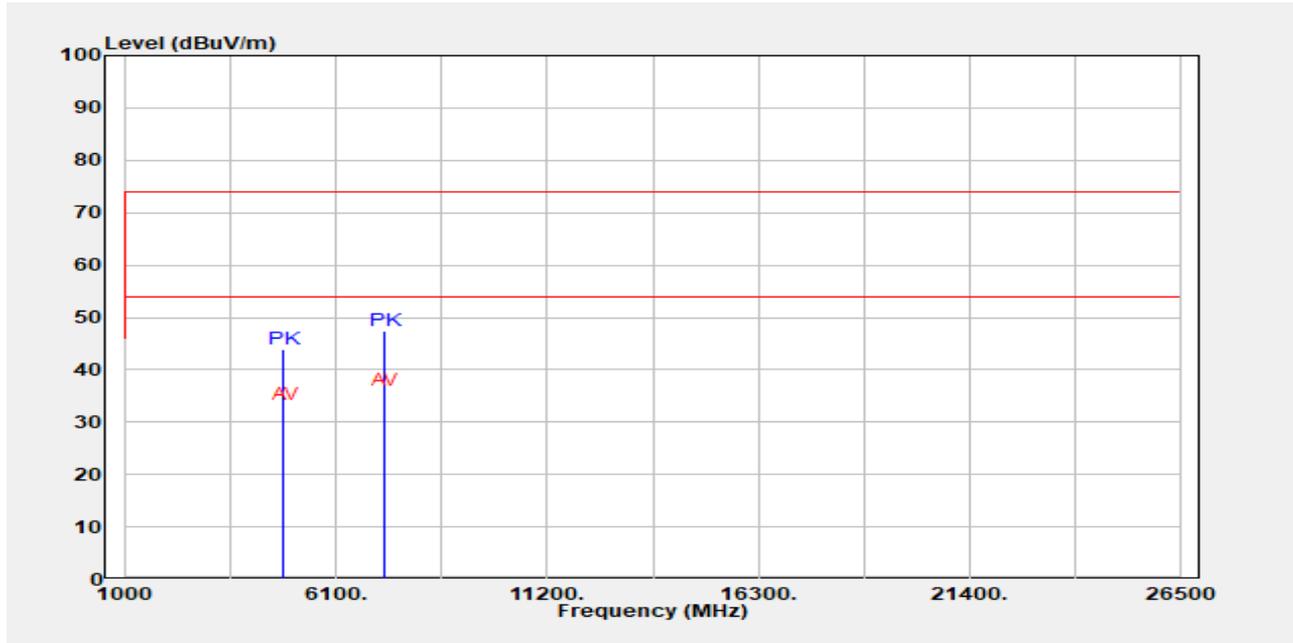
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Report Number :TERF2501000495ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.35	2.42	43.77	74.00	-30.23
4824.00	Average	30.93	2.42	33.35	54.00	-20.65
7236.00	Peak	40.26	7.06	47.32	74.00	-26.68
7236.00	Average	28.88	7.06	35.94	54.00	-18.06

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

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

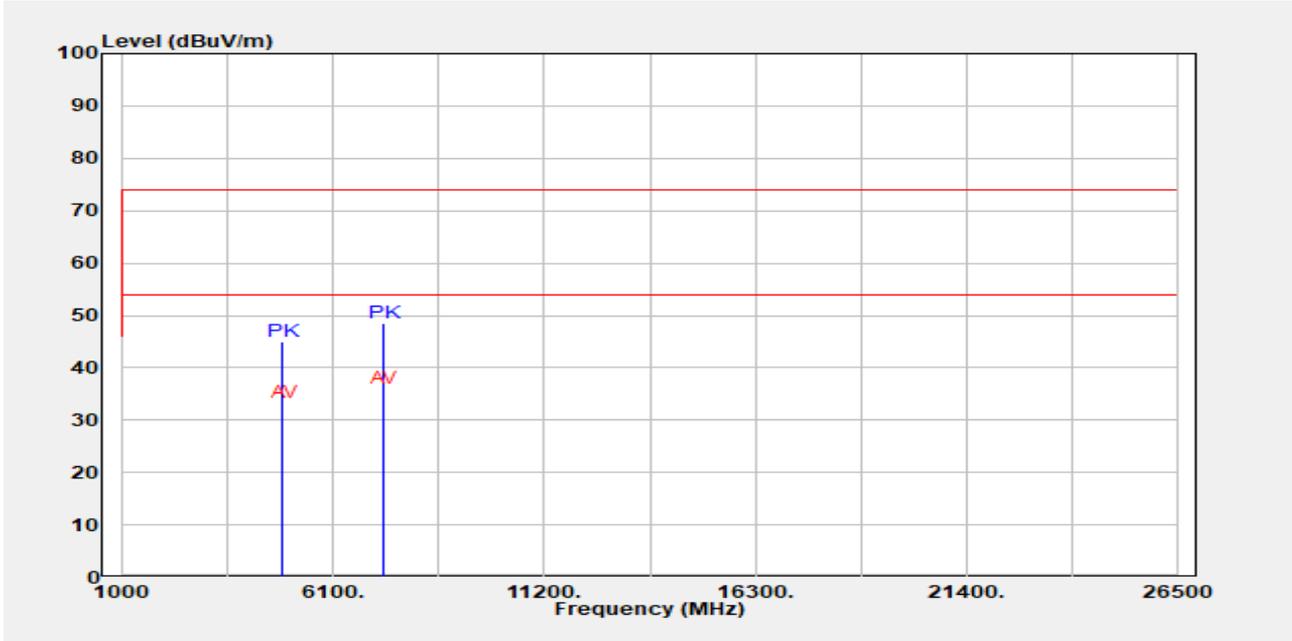
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Report Number :TERF2501000495ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	42.34	2.54	44.88	74.00	-29.12
4874.00	Average	30.80	2.54	33.34	54.00	-20.66
7311.00	Peak	41.38	7.19	48.57	74.00	-25.43
7311.00	Average	28.84	7.19	36.03	54.00	-17.97

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

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

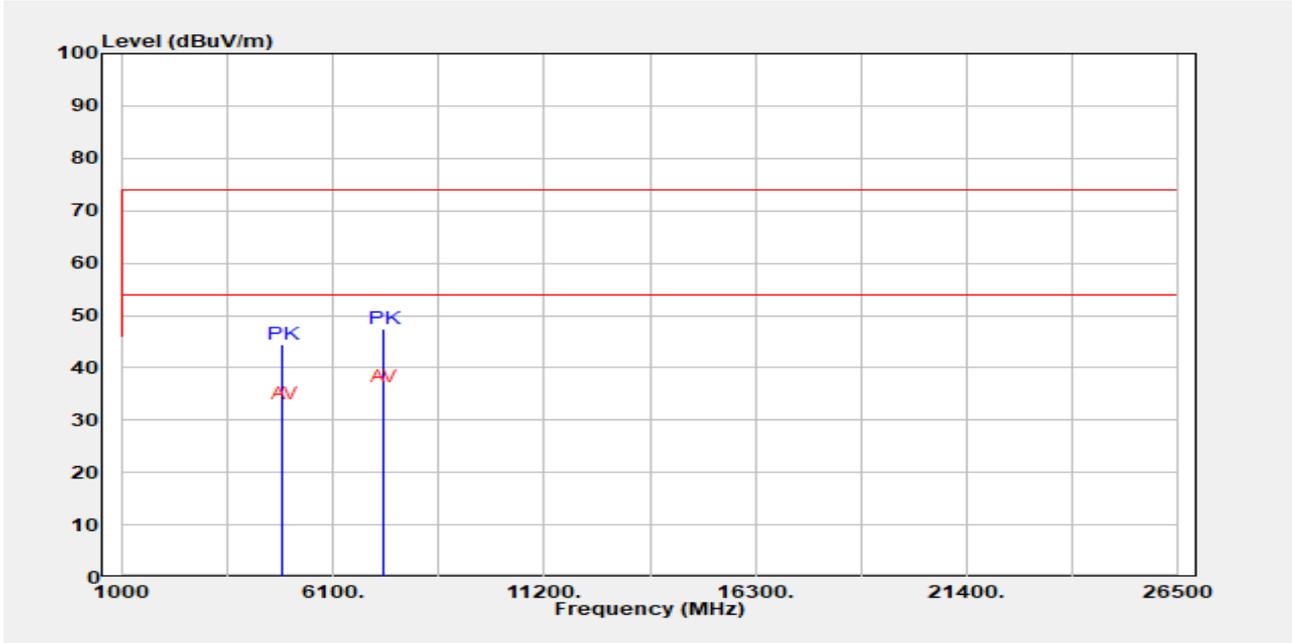
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Report Number :TERF2501000495ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.80	2.54	44.34	74.00	-29.66
4874.00	Average	30.42	2.54	32.96	54.00	-21.04
7311.00	Peak	40.14	7.19	47.33	74.00	-26.67
7311.00	Average	29.17	7.19	36.36	54.00	-17.64

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

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

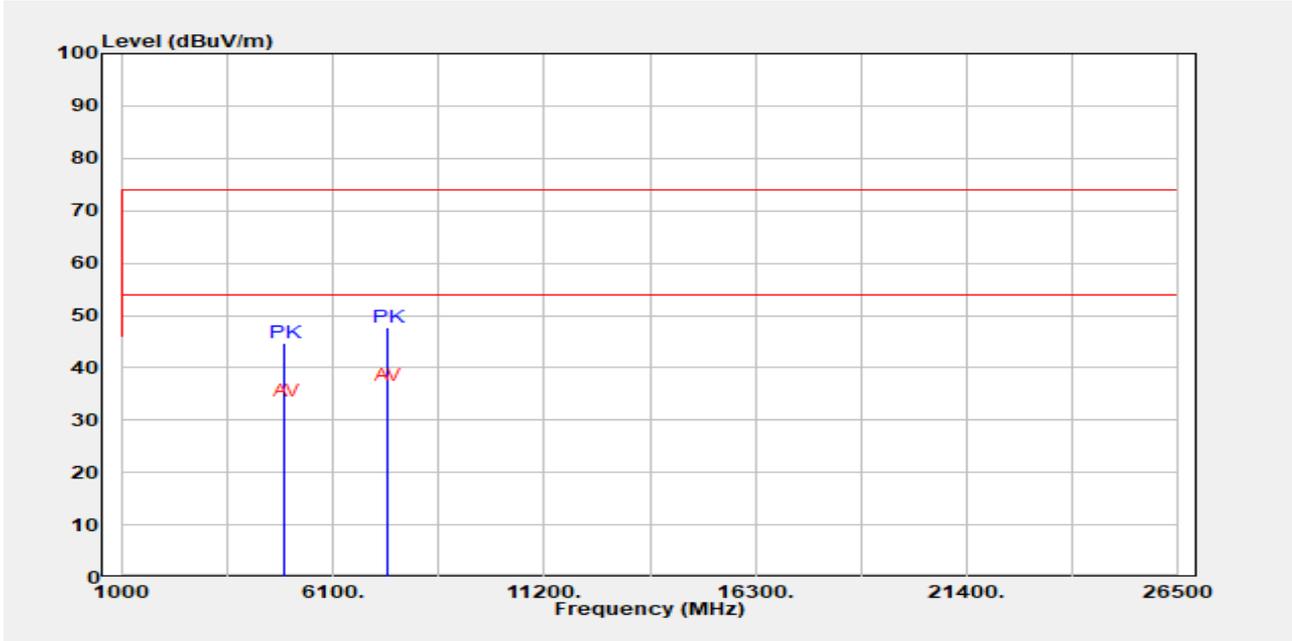
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Report Number :TERF2501000495ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	42.08	2.71	44.79	74.00	-29.21
4924.00	Average	30.77	2.71	33.48	54.00	-20.52
7386.00	Peak	40.20	7.42	47.62	74.00	-26.38
7386.00	Average	29.21	7.42	36.63	54.00	-17.37

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

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

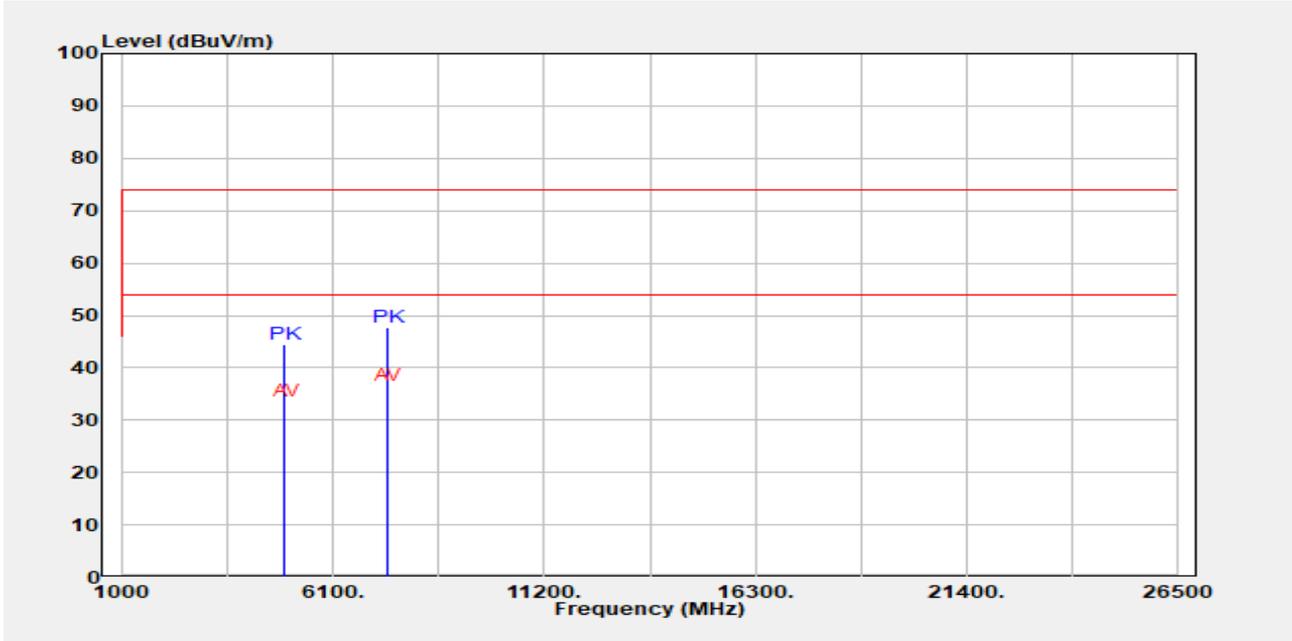
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Report Number :TERF2501000495ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.78	2.71	44.49	74.00	-29.51
4924.00	Average	30.78	2.71	33.49	54.00	-20.51
7386.00	Peak	40.34	7.42	47.76	74.00	-26.24
7386.00	Average	29.07	7.42	36.49	54.00	-17.51

Duty Cycle=92.86%

Average Duty Factor=0.32 (dB)

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

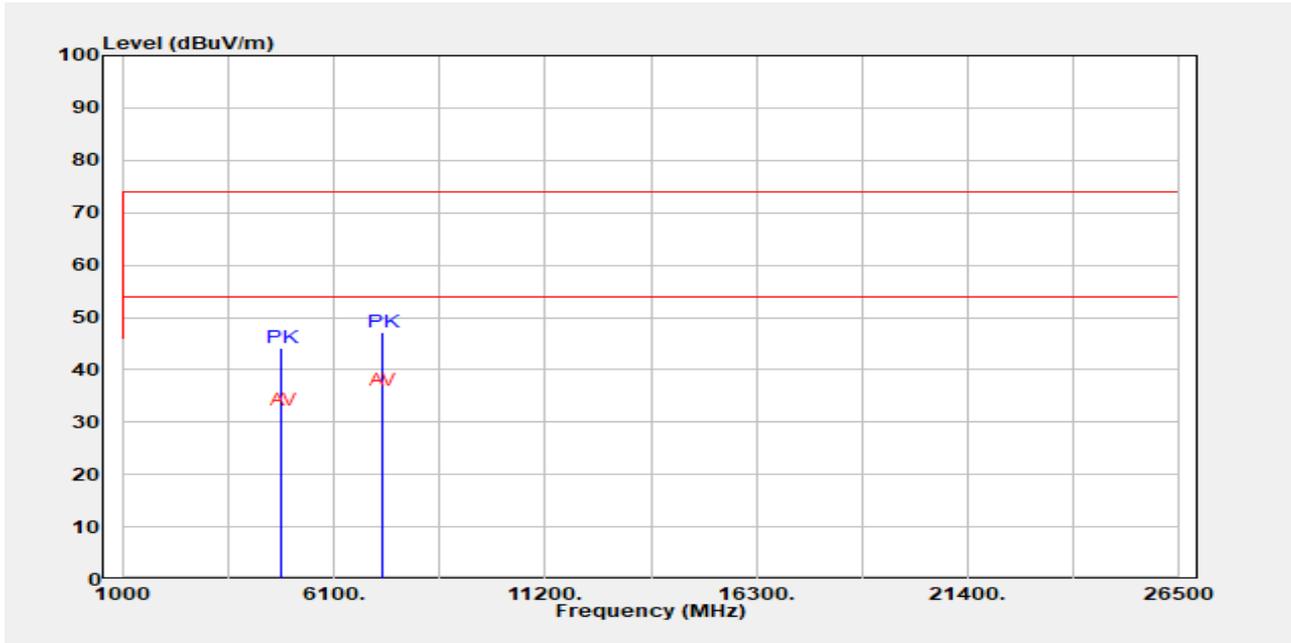
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Report Number :TERF2501000495ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.63	2.42	44.05	74.00	-29.95
4824.00	Average	29.93	2.42	32.35	54.00	-21.65
7236.00	Peak	40.13	7.06	47.19	74.00	-26.81
7236.00	Average	29.02	7.06	36.08	54.00	-17.92

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

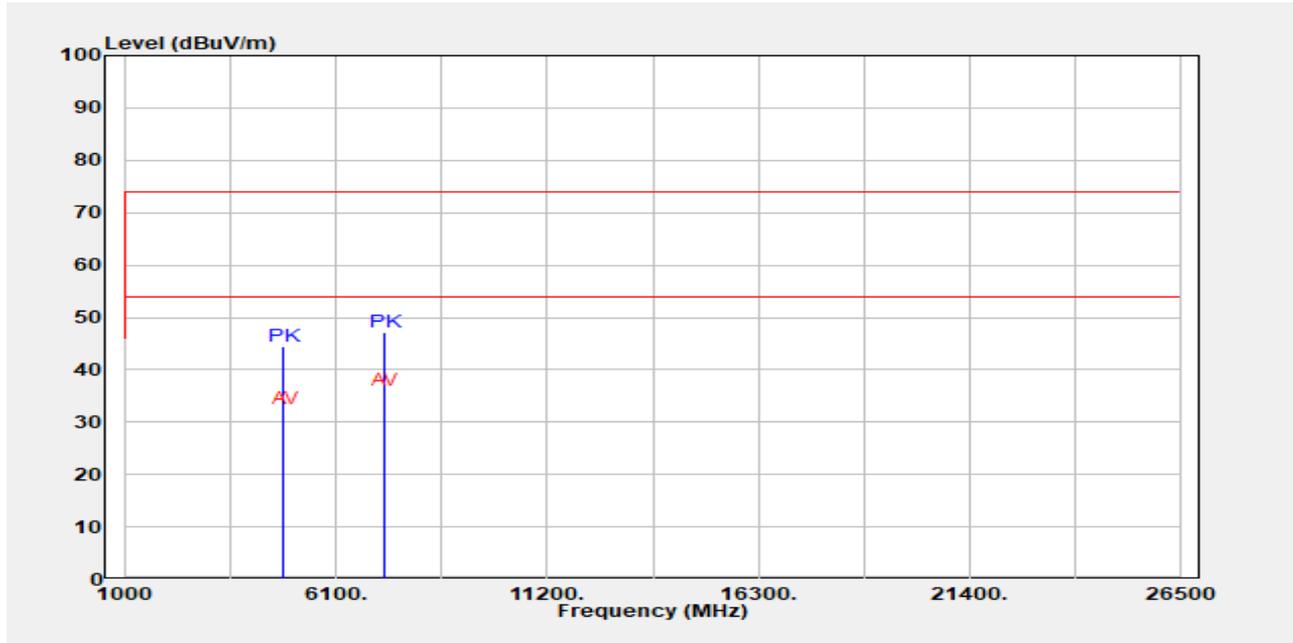
When the duty cycle is less than 98%, the duty factor is compensated within the reading level, so the correction factor has been added to the measurement results.

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Report Number :TERF2501000495ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.92	2.42	44.34	74.00	-29.66
4824.00	Average	30.07	2.42	32.49	54.00	-21.51
7236.00	Peak	40.17	7.06	47.23	74.00	-26.77
7236.00	Average	28.86	7.06	35.92	54.00	-18.08

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

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

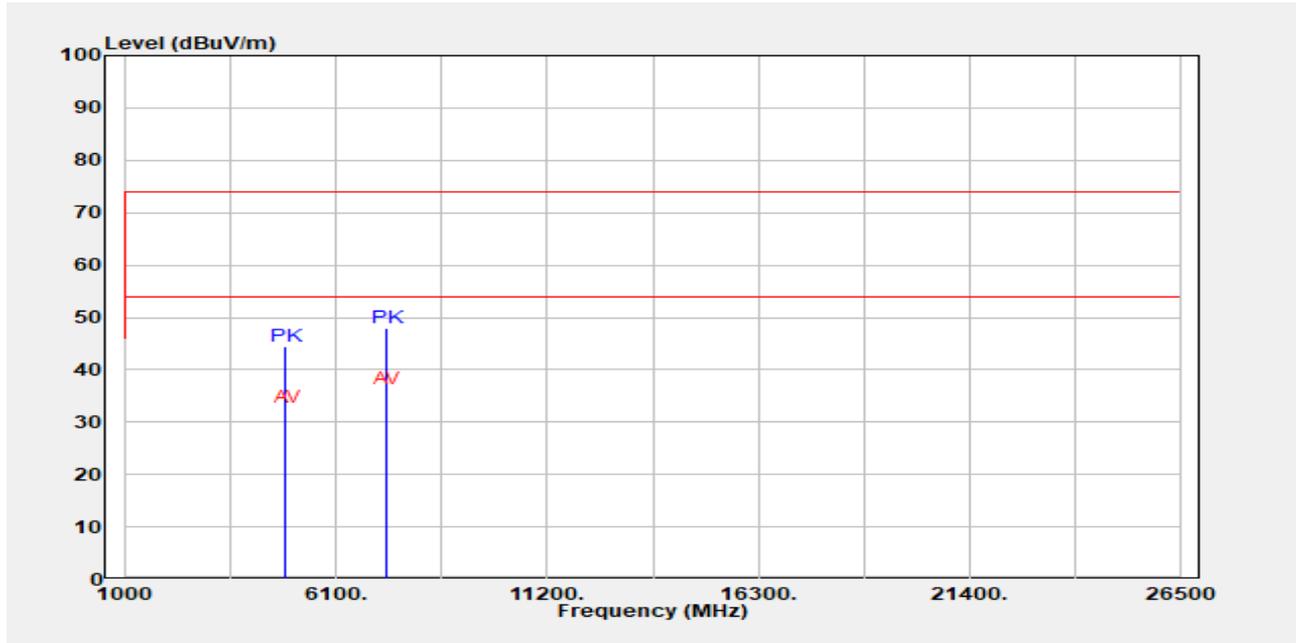
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Report Number :TERF2501000495ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.90	2.54	44.44	74.00	-29.56
4874.00	Average	30.19	2.54	32.73	54.00	-21.27
7311.00	Peak	40.66	7.19	47.85	74.00	-26.15
7311.00	Average	29.22	7.19	36.41	54.00	-17.59

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

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

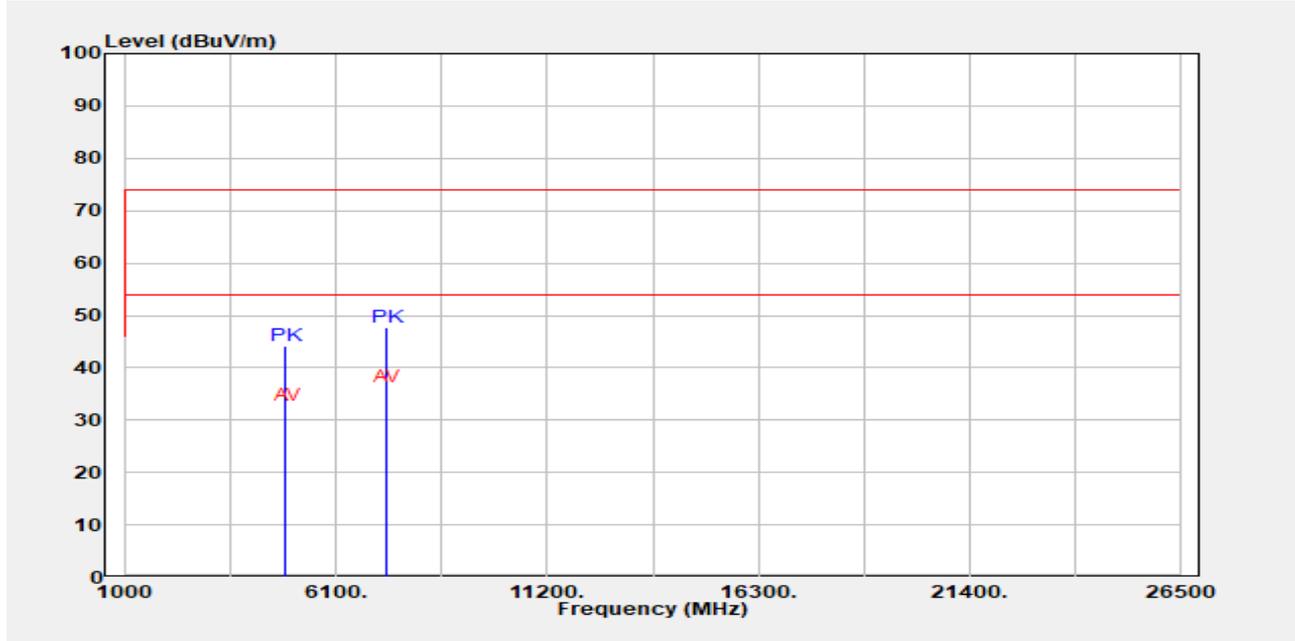
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Report Number :TERF2501000495ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
4874.00	Peak	41.74	2.54	44.28	74.00	-29.72
4874.00	Average	30.13	2.54	32.67	54.00	-21.33
7311.00	Peak	40.62	7.19	47.81	74.00	-26.19
7311.00	Average	29.26	7.19	36.45	54.00	-17.55

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

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

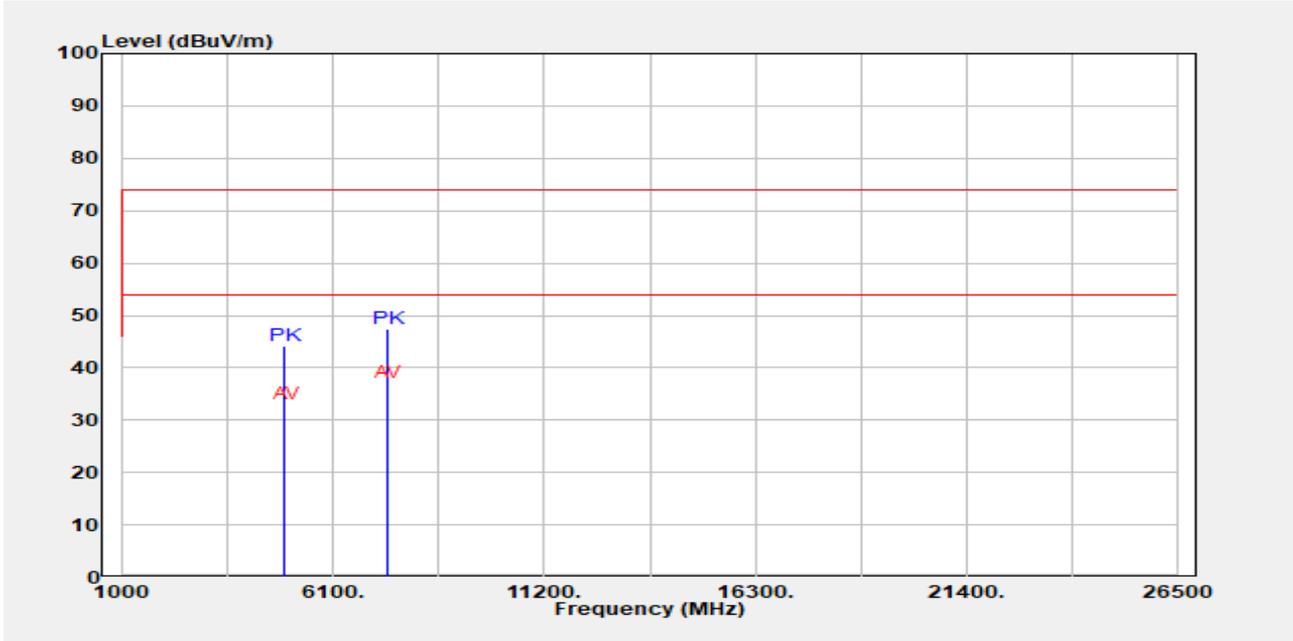
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Report Number :TERF2501000495ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.55	2.71	44.26	74.00	-29.74
4924.00	Average	30.29	2.71	33.00	54.00	-21.00
7386.00	Peak	40.09	7.42	47.51	74.00	-26.49
7386.00	Average	29.72	7.42	37.14	54.00	-16.86

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

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

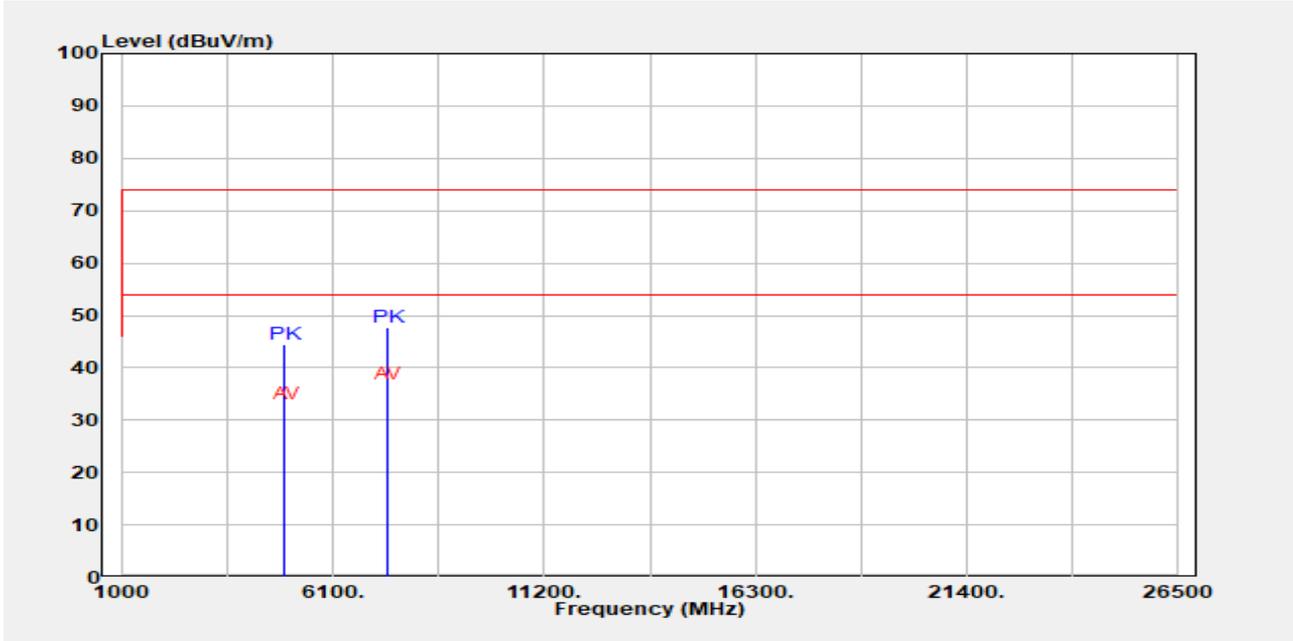
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Report Number :TERF2501000495ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2025-02-10
 Temp./Humi. :24.2°C/59%
 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	41.63	2.71	44.34	74.00	-29.66
4924.00	Average	30.47	2.71	33.18	54.00	-20.82
7386.00	Peak	40.17	7.42	47.59	74.00	-26.41
7386.00	Average	29.51	7.42	36.93	54.00	-17.07

Duty Cycle=92.41%

Average Duty Factor=0.34 (dB)

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

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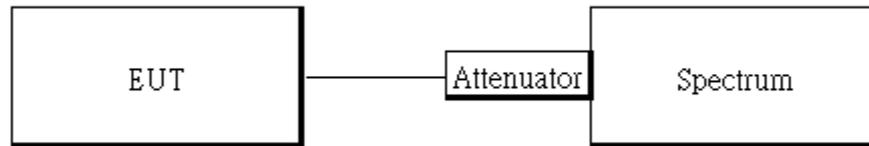
12 POWER SPECTRAL DENSITY

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)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.16	-7.16	8.00	PASS
2437	-2.87	-2.87	8.00	PASS
2462	-5.53	-5.53	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.41	-12.41	8.00	PASS
2437	-7.37	-7.37	8.00	PASS
2462	-14.32	-14.32	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.92	-12.92	8.00	PASS
2437	-7.36	-7.36	8.00	PASS
2462	-14.59	-14.59	8.00	PASS

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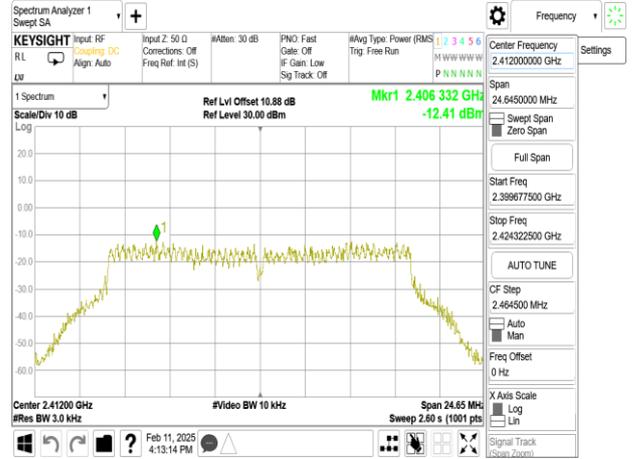
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802.11b_20MHz_Chain0_2412MHz



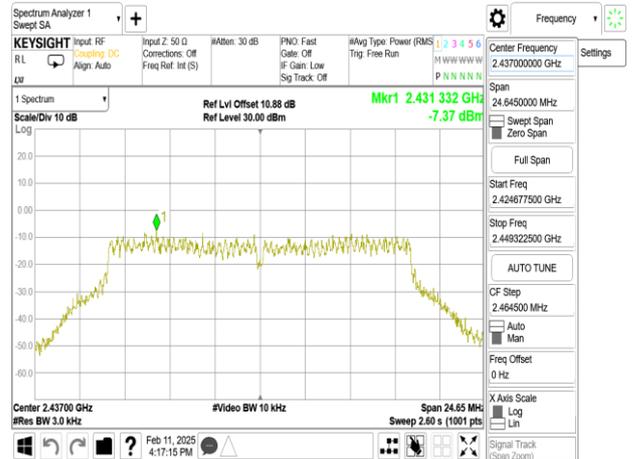
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



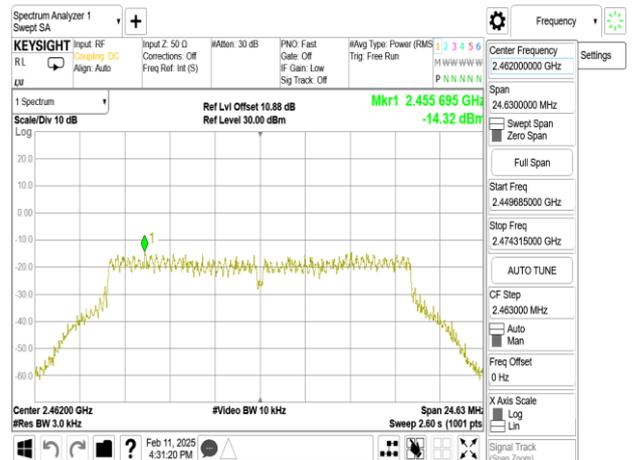
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

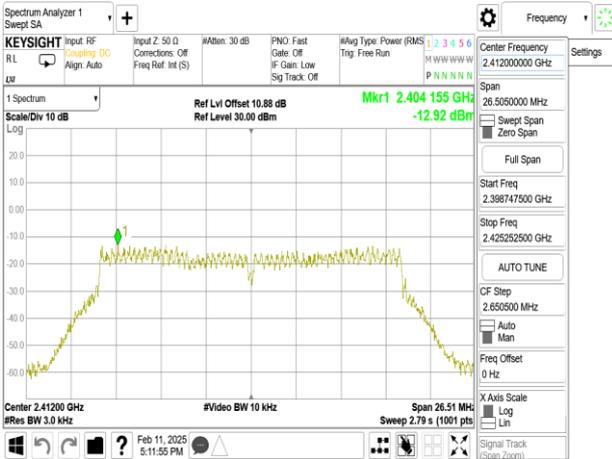


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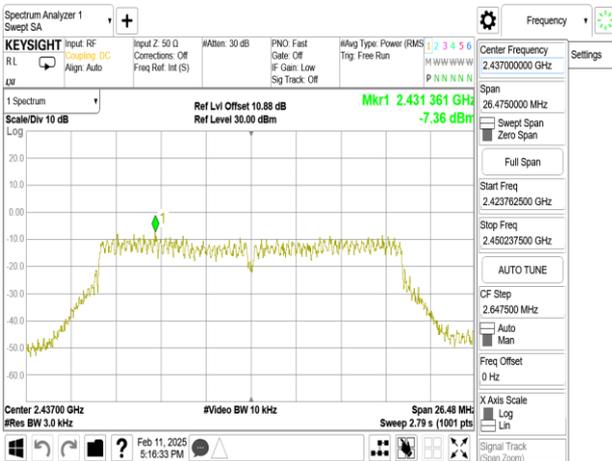
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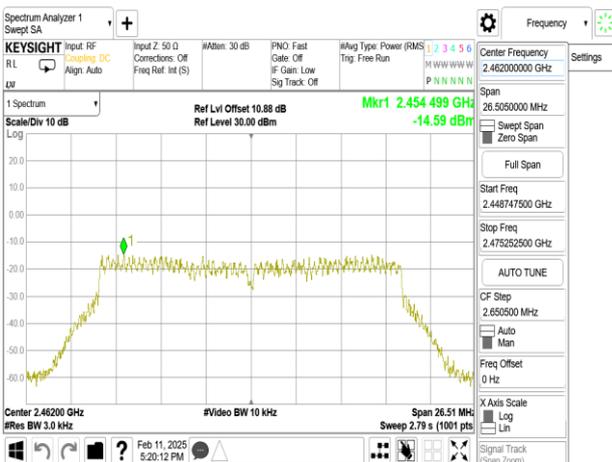
802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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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