

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Wireless module installed in POS Terminal
Applicant: Cavli Inc.
99 South Almaden Blvd., Suite 600, San Jose, CA, USA
Manufacturer: Cavli Inc.
99 South Almaden Blvd., Suite 600, San Jose, CA, USA
Brand Name: Cavli Wireless
Model No. CQS290
FCC Host Model: STICK_401_GEN1
Report Number: TERF2507002257ER
FCC ID 2BB64CQS290NA
Date of EUT Received: July 2, 2025
Date of Test: July 15, 2025 ~ December 2, 2025
Issue Date: January 15, 2026

Approved By _____

Marcus Tseng

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 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
TERF2507002257ER	00	Original	January 15, 2026	Susan Lin	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Wireless module installed in POS Terminal
Brand Name	Cavli Wireless
Model No.	CQS290
FCC Host Model	STICK_401_GEN1
Hardware Version	DVT2
Firmware Version	N/A
EUT Series No.	SYS000799
Power Supply	3.7Vdc from Li-ion battery or 5Vdc from adapter
Test Software (Name/Version)	QRCT v4.0.211.0

1.2 RF Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Frequency Range:	2.402GHz ~ 2.480GHz
Dwell Time:	$\leq 0.4s$

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1.3 Antenna Designation

Ant. Type	Brand	Part No.	Freq. (MHz)	Peak Gain(dBi)
IFA PCB	N/A	N/A	2400~2483.5	-1.24

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. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

1.4 Operating Frequencies

2400~2483.5 MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
0	2402 MHz	1	2403 MHz	2	2404 MHz	3	2405 MHz
4	2406 MHz	5	2407 MHz	6	2408 MHz	7	2409 MHz
8	2410 MHz	9	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz	15	2417 MHz
16	2418 MHz	17	2419 MHz	18	2420 MHz	19	2421 MHz
20	2422 MHz	21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz	27	2429 MHz
28	2430 MHz	29	2431 MHz	30	2432 MHz	31	2433 MHz
32	2434 MHz	33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz	39	2441 MHz
40	2442 MHz	41	2443 MHz	42	2444 MHz	43	2445 MHz
44	2446 MHz	45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz	51	2453 MHz
52	2454 MHz	53	2455 MHz	54	2456 MHz	55	2457 MHz
56	2458 MHz	57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz	63	2465 MHz
64	2466 MHz	65	2467 MHz	66	2468 MHz	67	2469 MHz
68	2470 MHz	69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz	75	2477 MHz
76	2478 MHz	77	2479 MHz	78	2480 MHz	-	-

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1.5 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. The field strength of radiation 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.
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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth	0 to 78	39	GFSK	DH5
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	0 to 78	0,39,78	GFSK,8-DPSK	DH5,3DH5

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.205 §15.209 §15.247(d)	Unwanted Emission	Compliant

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart C §15.247
2. FCC KDB 558074 D01 15.247 Meas Guidance v05r02
3. ANSI C63.10:2020

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2.2 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
Frequency Separation	+/- 1.48 Hz
Number of hopping frequency	+/- 1.48 Hz
Time of Occupancy	+/- 1.48 Hz
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 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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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702 / 4620E

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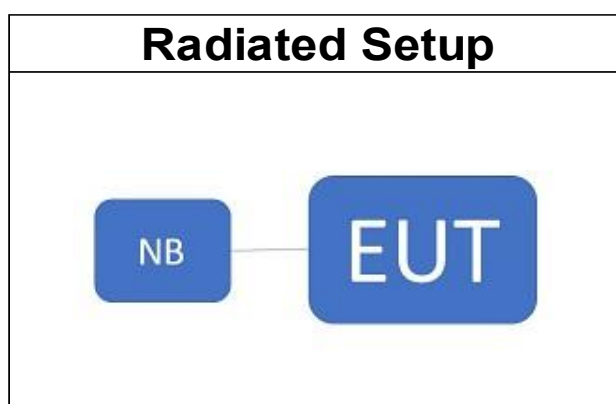
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 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.

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.

3.2 Diagrams



3.3 List

3.3.1 Radiated Setup

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A

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4 TEST INSTRUMENT

4.1 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 2400-2483.5	EWI	EWI-14-0166	M2	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/ 4PEA+221106+760 96/6)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/05/2025	02/04/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/20/2024	12/19/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980868	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A07676	07/14/2025	07/13/2026
Site Cal	SGS	SAC 3	N/A	07/14/2025	07/13/2026
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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5 REGULATORY REQUIREMENTS

5.1 Unwanted Emissions

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 applicable radiated emission limits as defined in the general emission limit tables.

Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, 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: The lower limit shall apply at the transition frequencies.

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

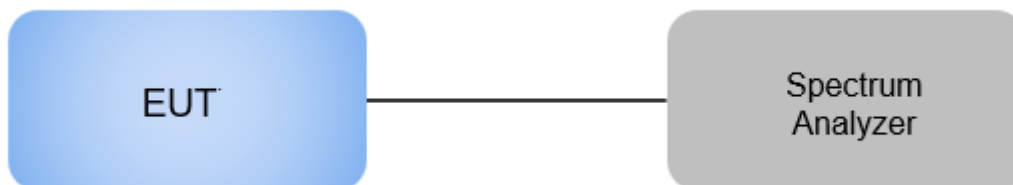
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6 TEST CONFIGURATION

6.1 Unwanted Emissions

6.1.1 Duty Cycle Correction Factor



1. Correction Factor For Radiated Unwanted Emission
2. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to produce the worst-case pulse ON time.
3. The testing was performed in accordance with the applicable measurement procedure.
4. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
5. Set the center frequency of the spectrum analyzer to the operating frequency.
6. Configure the spectrum analyzer as follows:
 - RBW = 1 MHz
 - VBW = 3 MHz
 - Span = 0 Hz
 - Detector = Peak
 - Sweep Time = 100 ms (manually adjusted)Repeat the above procedure until all datarate of interest have been measured.
7. Average Value (dB μ V/m) = Peak Actual Field Strength (dB μ V/m) + Duty Cycle Correction Factor (dB)
8. Duty Cycle Correction Factor (dB) = $20 \times \log_{10} (T_{on} / 100 \text{ ms})$

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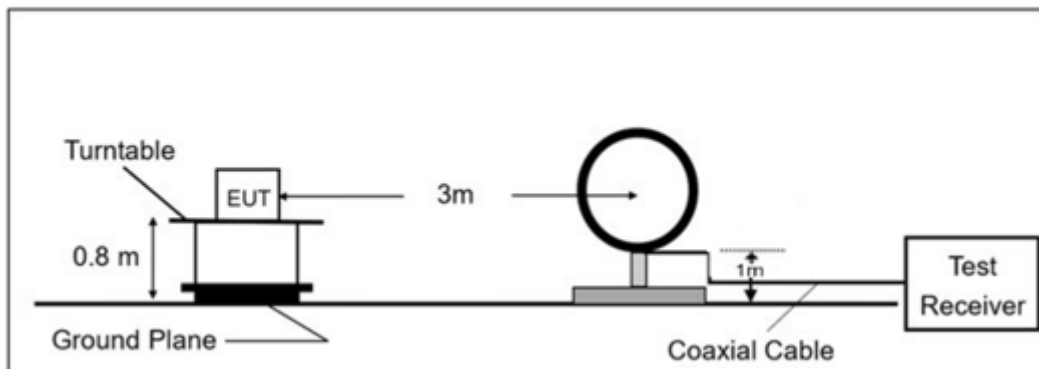
6.1.2 Radiated Emission

For Measurements From 9 kHz To 30 MHz

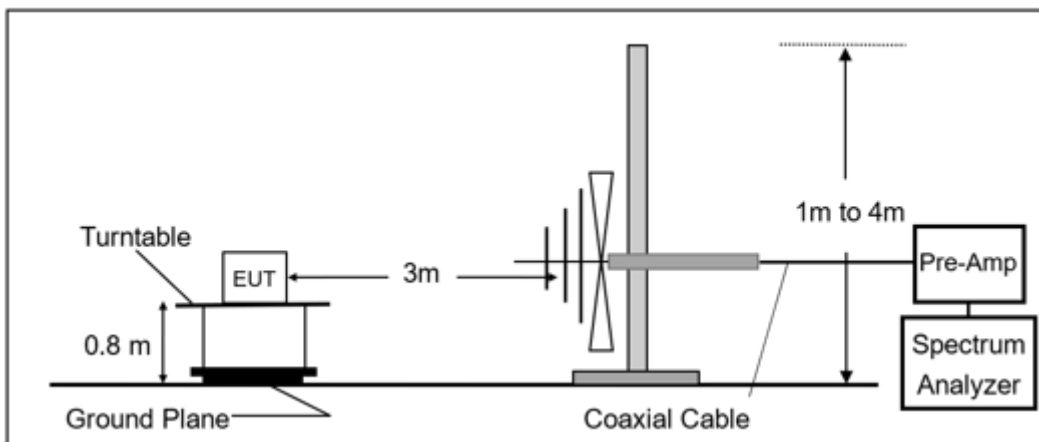
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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



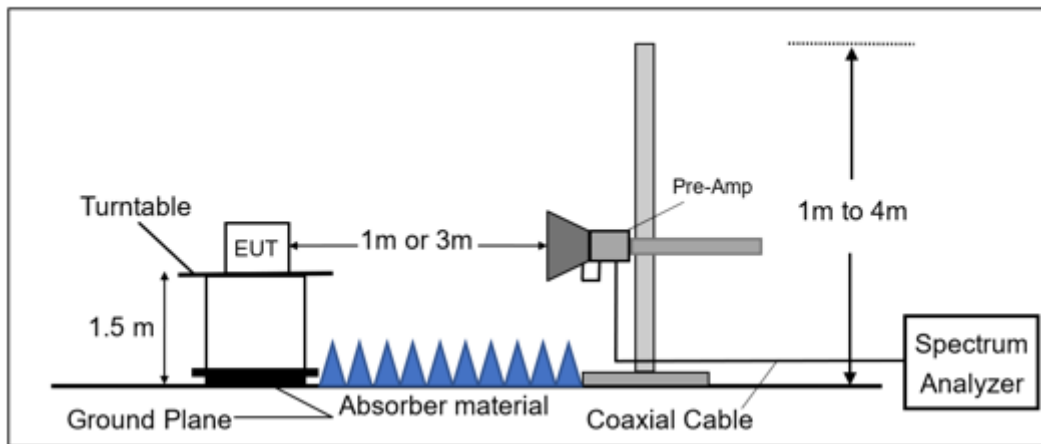
Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. The spectrum analyzer was set with RBW = 100 kHz and VBW = 300 kHz, using a Peak detector for frequencies between 30 MHz and 1 GHz.
6. A receiver mode with RBW = 120 kHz was used for Quasi-Peak (QP) measurements between 30 MHz and 1 GHz.
7. For frequencies above 1 GHz, the spectrum analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and Detector = Peak for maximum emission measurements.
8. For average emission measurements above 1 GHz where the duty cycle (D) is $\geq 98\%$, the analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and the RMS detector with correction factor $[10 \log(1/D)]$. If the emission is continuous ($D \geq 98\%$) and does not switch ON/OFF with the transmit cycle, then no duty cycle correction is required.
9. For average emission measurements above 1 GHz where $D < 98\%$, the analyzer was set with RBW = 1 MHz and $VBW \geq 1/T$.
10. The average value of pulsed emissions is determined using the duty cycle correction method, applying a correction factor of $20 \times \log_{10}(T_{on} / 100 \text{ ms})$.
11. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
12. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
13. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.

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14. Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

6.1.3 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

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

Where:

FS = Field Strength (dB μ V/m)
RA = Reading Amplitude (dB μ V)
AF = Antenna Factor (dB/m)
CL = Cable Loss (dB)
AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

Actual Field Strength (dB μ V/m) = Spectrum Analyzer Reading (dB μ V) + Total Factor (dB)

Total Factor (dB) = Antenna Factor (dB) + Cable Loss (dB) – Preamplifier Gain (dB)

Average value(dB μ V/m)=Peak Actual FS(dB μ V/m)+ Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor(dB) = $20 \log (\text{Ton}/100 \text{ ms})$

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

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7 TEST RESULTS

7.1 Unwanted Emissions

7.1.1 Duty Cycle Correction Factor

Bluetooth 1M

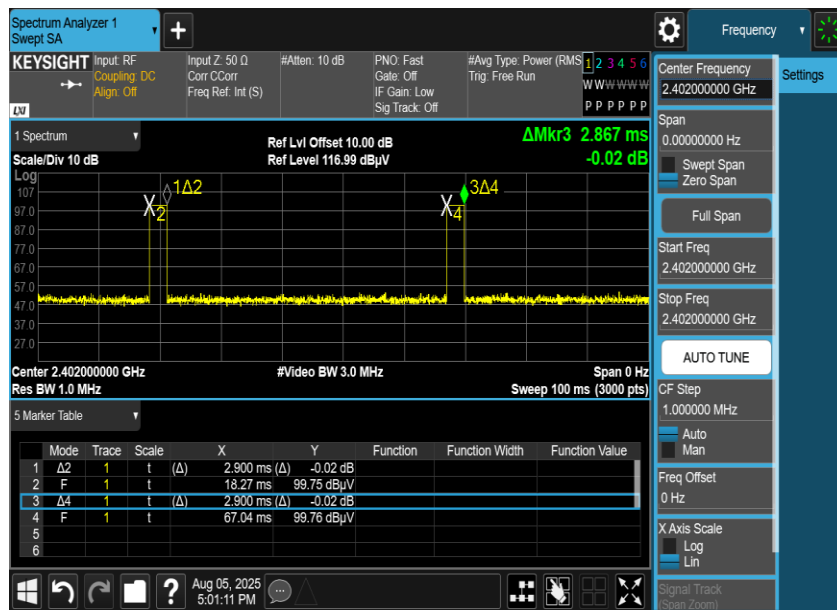
Time ON of 100ms: 5.800 ms
Duty Cycle=5.8ms / 100ms= 0.058
Duty Cycle correction factor=20 LOG 0.058 = -24.73 dB

Bluetooth 3M

Time ON of 100ms: 5.800 ms
Duty Cycle=5.8ms / 100ms= 0.058
Duty Cycle correction factor=20 LOG 0.058 = -24.73 dB

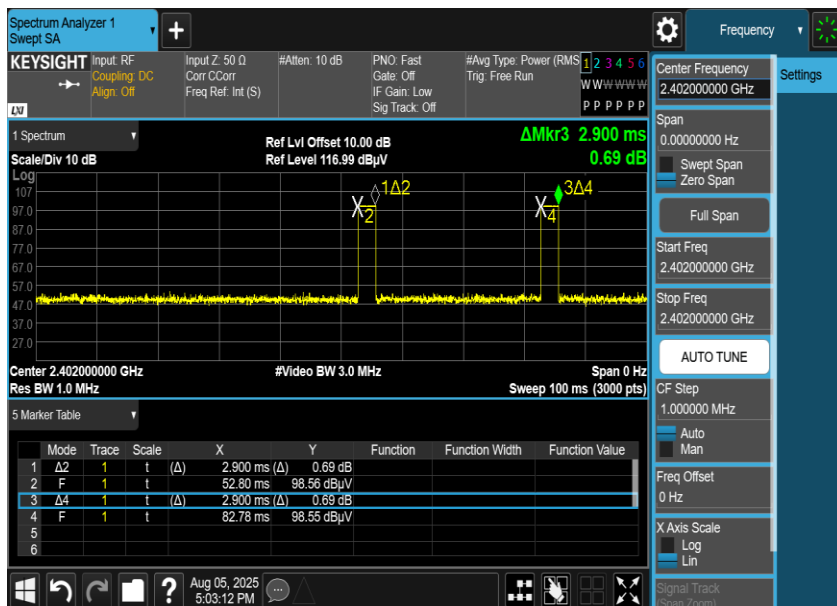
7.1.2 Duty Cycle test plot

BR



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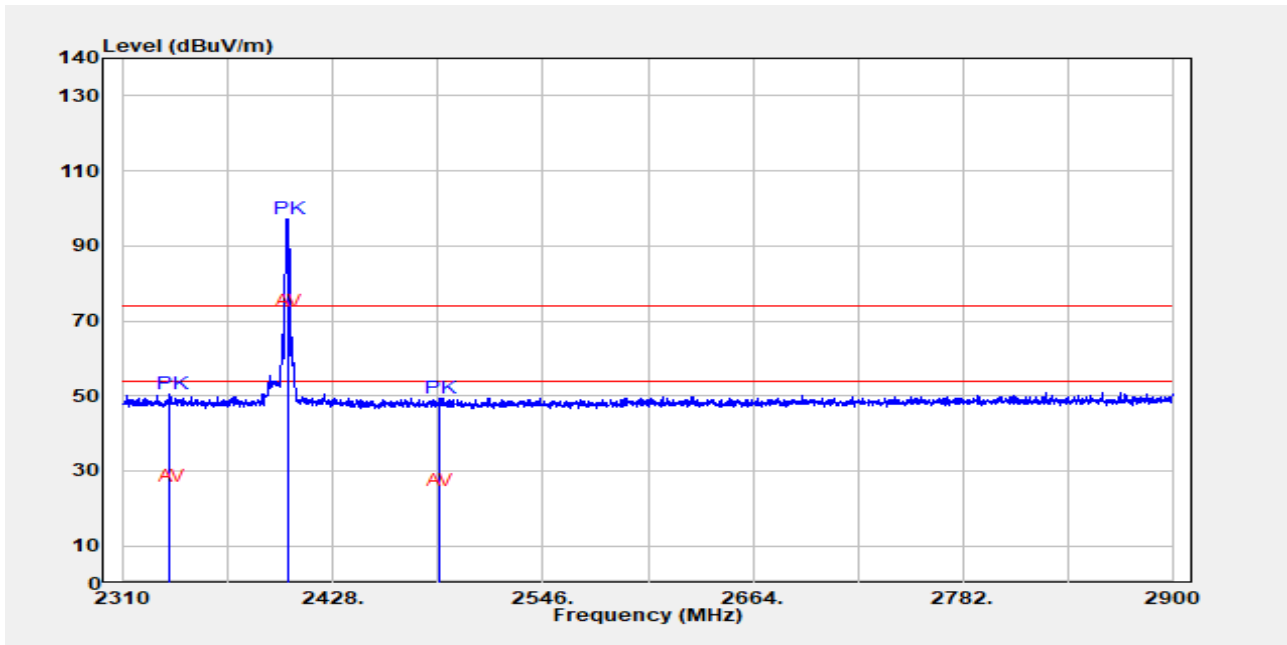
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7.1.3 Bandedge Result

Report Number :TERF2507002257ER
Operation Mode :BR
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2025-08-05
Temp./Humi. :24.8°C/62%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2336.17	Peak	54.96	-4.35	50.61	74.00	-23.39
2336.17	Average	-	-	25.88	54.00	-28.12
2402.00	Peak	101.70	-4.50	97.20	-	-
2402.00	Average	-	-	72.47	-	-
2487.06	Peak	54.16	-4.76	49.40	74.00	-24.60
2487.06	Average	-	-	24.67	54.00	-29.33

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

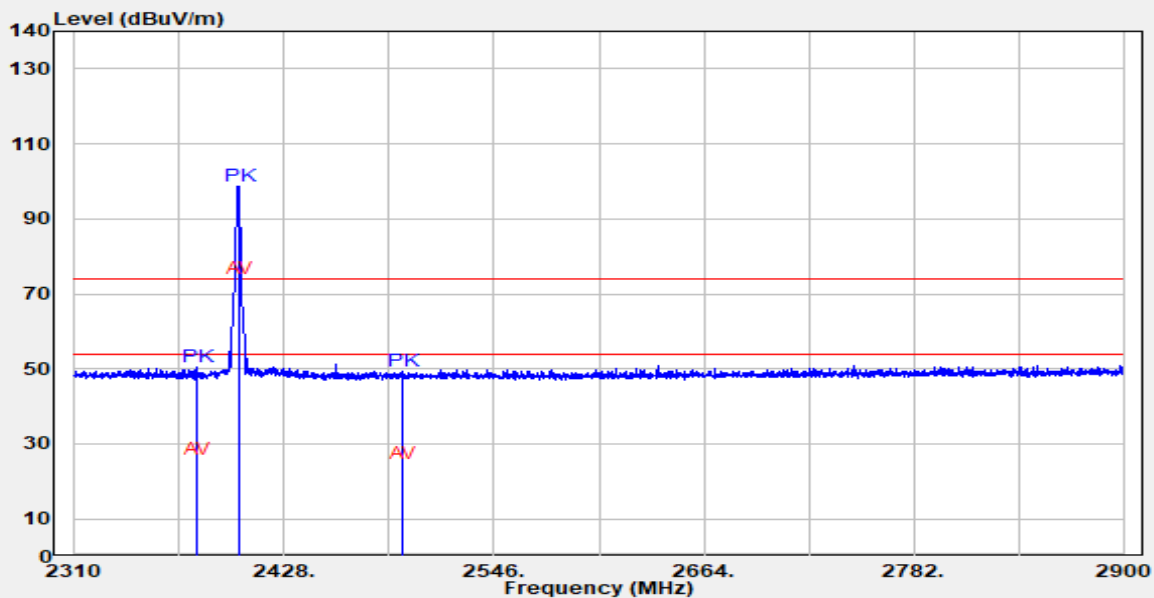
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Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2378.27	Peak	54.93	-4.44	50.49	74.00	-23.51
2378.27	Average	-	-	25.76	54.00	-28.24
2402.00	Peak	103.04	-4.50	98.54	-	-
2402.00	Average	-	-	73.81	-	-
2494.14	Peak	54.00	-4.78	49.22	74.00	-24.78
2494.14	Average	-	-	24.49	54.00	-29.51

Average Duty Cycle Factor=-24.73 (dB)

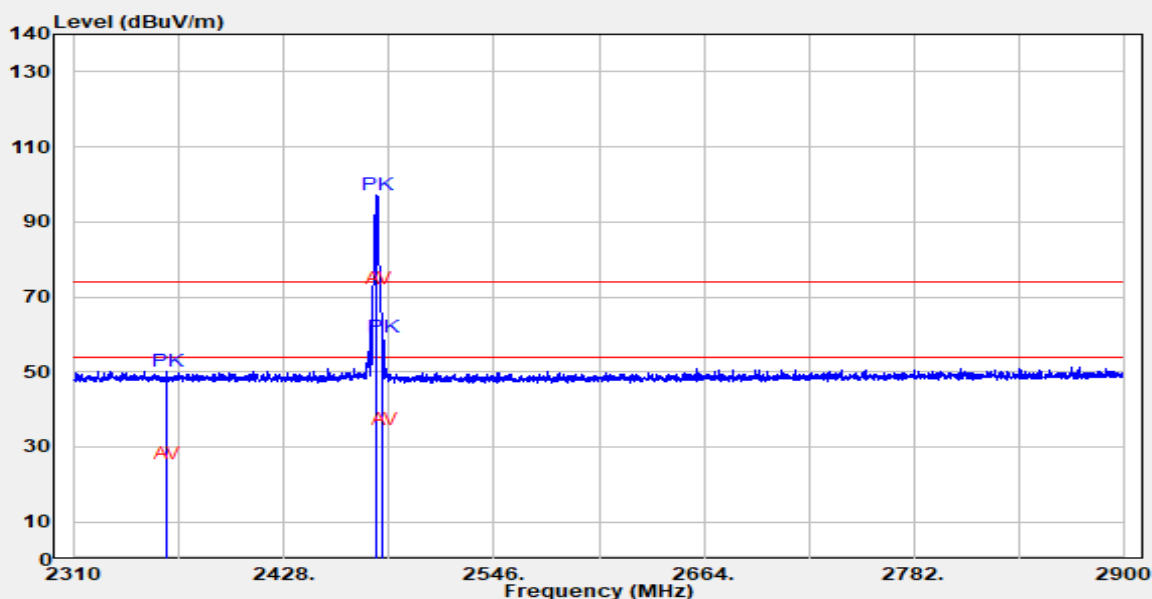
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2361.35	Peak	54.61	-4.40	50.21	74.00	-23.79
2361.35	Average	-	-	25.48	54.00	-28.52
2480.00	Peak	101.73	-4.76	96.97	-	-
2480.00	Average	-	-	72.24	-	-
2483.52	Peak	63.97	-4.77	59.20	74.00	-14.80
2483.52	Average	-	-	34.47	54.00	-19.53

Average Duty Cycle Factor=-24.73 (dB)

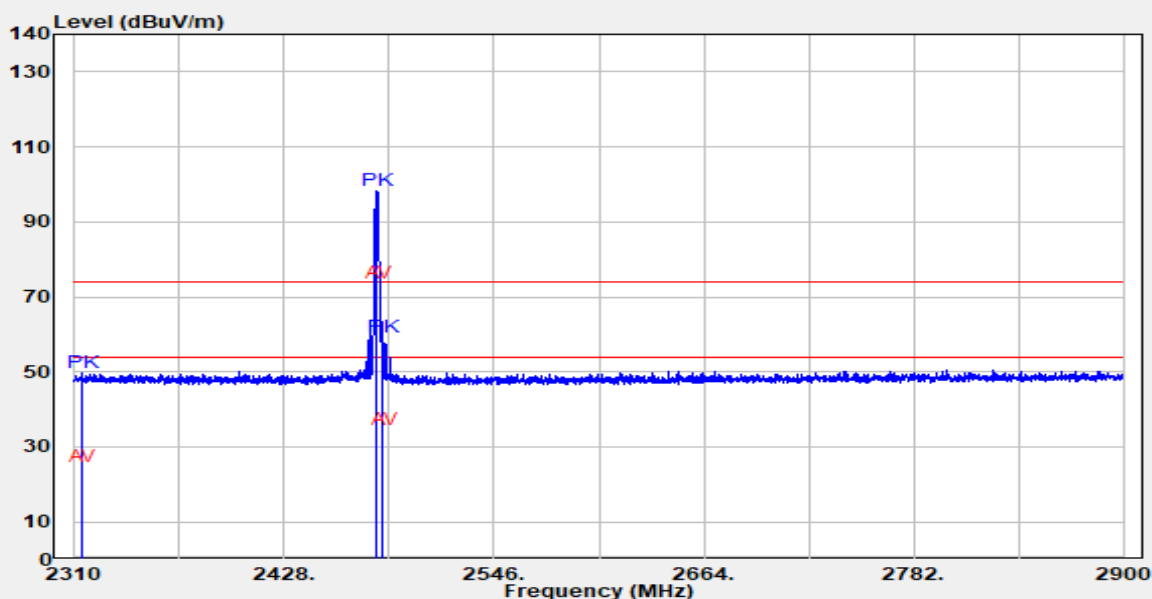
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2314.13	Peak	53.86	-4.30	49.56	74.00	-24.44
2314.13	Average	-	-	24.83	54.00	-29.17
2480.00	Peak	103.00	-4.76	98.24	-	-
2480.00	Average	-	-	73.51	-	-
2483.52	Peak	63.92	-4.77	59.15	74.00	-14.85
2483.52	Average	-	-	34.42	54.00	-19.58

Average Duty Cycle Factor=-24.73 (dB)

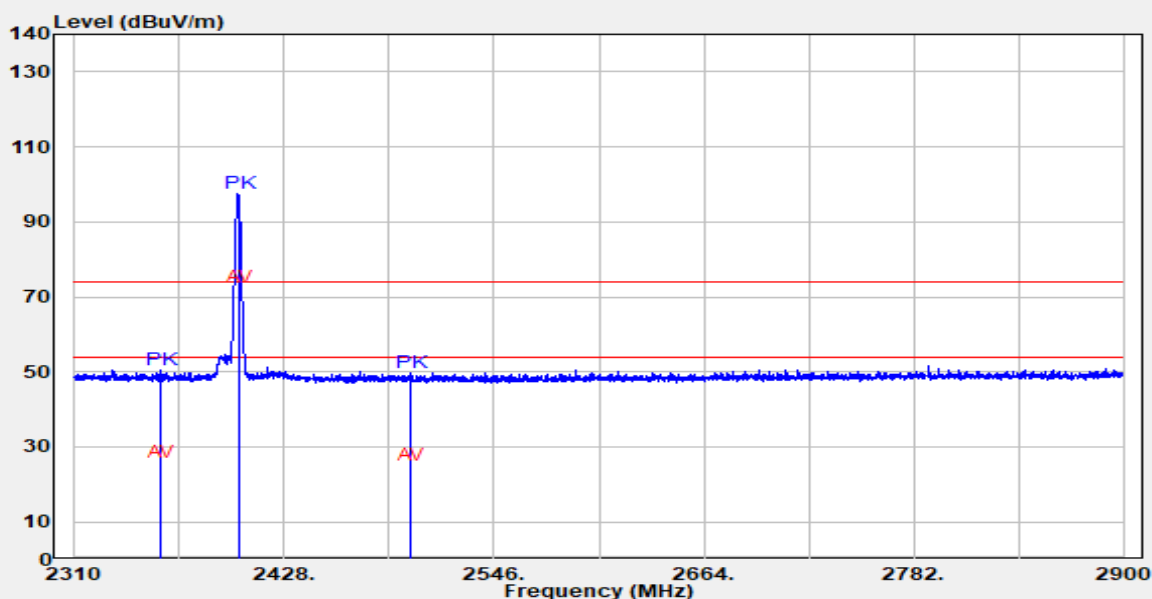
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2357.81	Peak	54.86	-4.41	50.45	74.00	-23.55
2357.81	Average	-	-	25.72	54.00	-28.28
2402.00	Peak	101.88	-4.50	97.38	-	-
2402.00	Average	-	-	72.65	-	-
2499.06	Peak	54.37	-4.78	49.59	74.00	-24.41
2499.06	Average	-	-	24.86	54.00	-29.14

Average Duty Cycle Factor=-24.73 (dB)

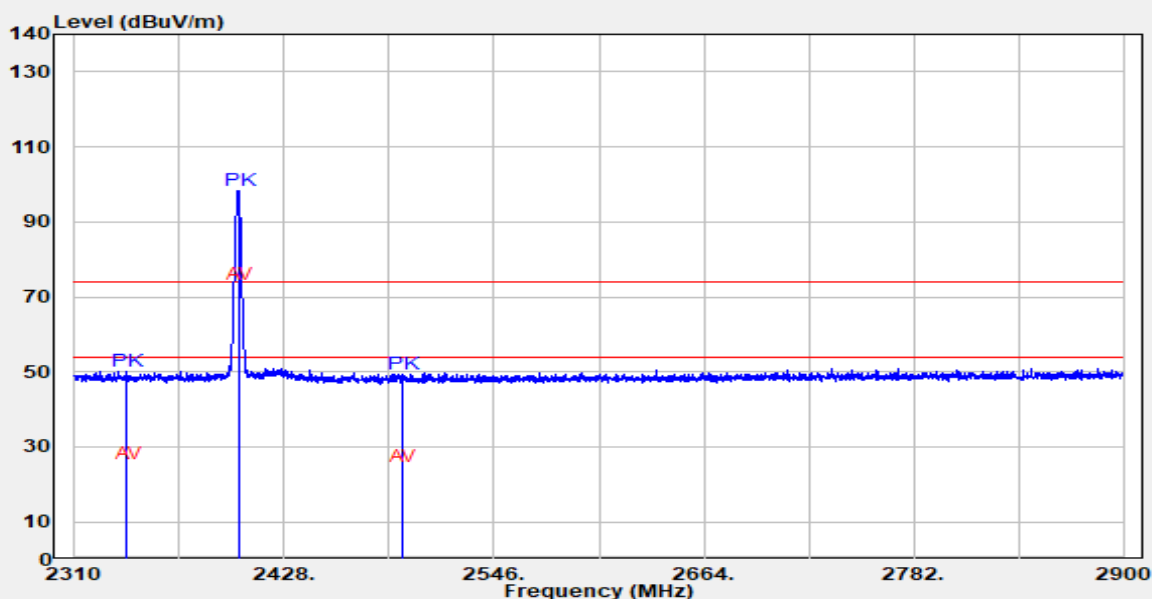
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2339.31	Peak	54.57	-4.36	50.21	74.00	-23.79
2339.31	Average	-	-	25.48	54.00	-28.52
2402.00	Peak	102.61	-4.50	98.11	-	-
2402.00	Average	-	-	73.38	-	-
2494.34	Peak	54.22	-4.78	49.44	74.00	-24.56
2494.34	Average	-	-	24.71	54.00	-29.29

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

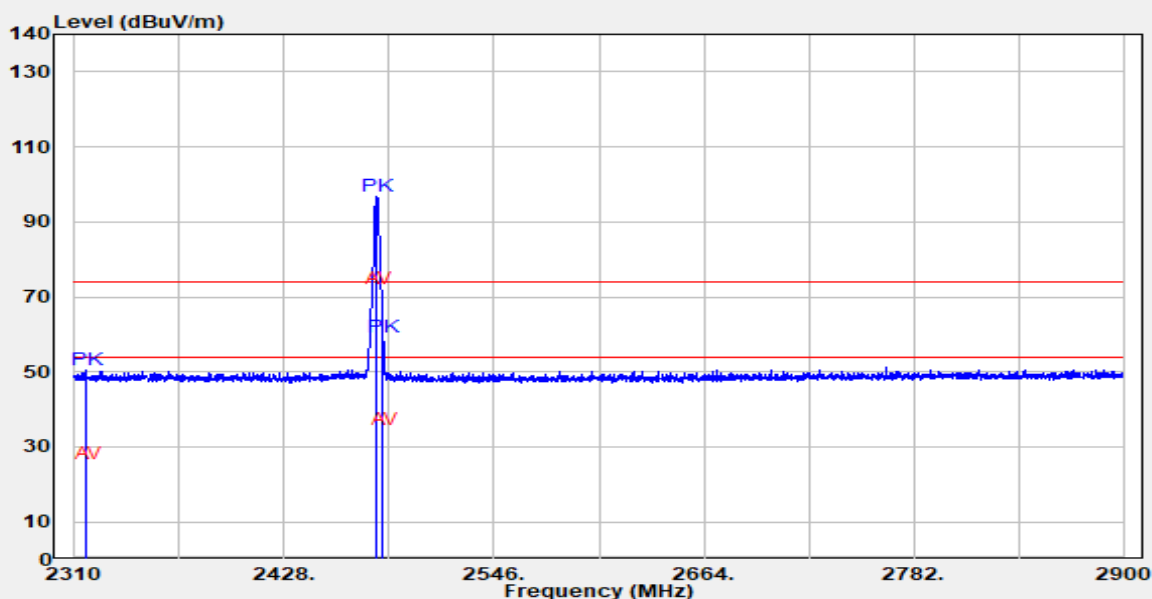
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2316.69	Peak	54.59	-4.30	50.29	74.00	-23.71
2316.69	Average	-	-	25.56	54.00	-28.44
2480.00	Peak	101.45	-4.76	96.69	-	-
2480.00	Average	-	-	71.96	-	-
2483.52	Peak	64.10	-4.77	59.33	74.00	-14.67
2483.52	Average	-	-	34.60	54.00	-19.40

Average Duty Cycle Factor=-24.73 (dB)

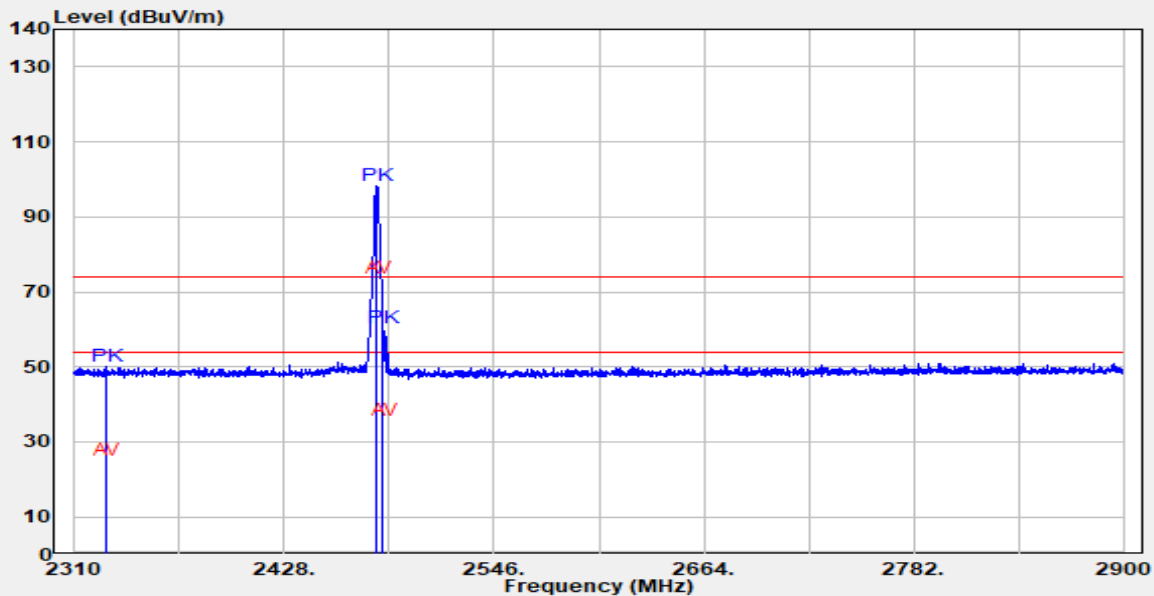
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2327.31	Peak	54.22	-4.32	49.90	74.00	-24.10
2327.31	Average	-	-	25.17	54.00	-28.83
2480.00	Peak	103.10	-4.76	98.34	-	-
2480.00	Average	-	-	73.61	-	-
2483.52	Peak	65.20	-4.77	60.43	74.00	-13.57
2483.52	Average	-	-	35.70	54.00	-18.30

Average Duty Cycle Factor=-24.73 (dB)

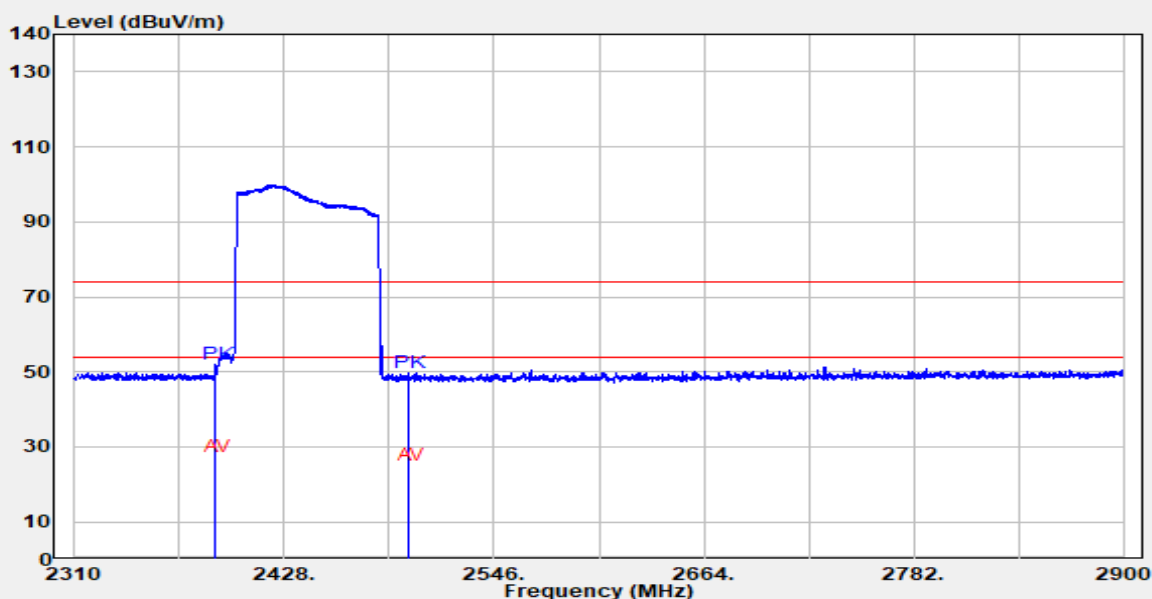
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.48	Peak	56.37	-4.47	51.90	74.00	-22.10
2389.48	Average	-	-	27.17	54.00	-26.83
2498.08	Peak	54.46	-4.78	49.68	74.00	-24.32
2498.08	Average	-	-	24.95	54.00	-29.05

Average Duty Cycle Factor=-24.73 (dB)

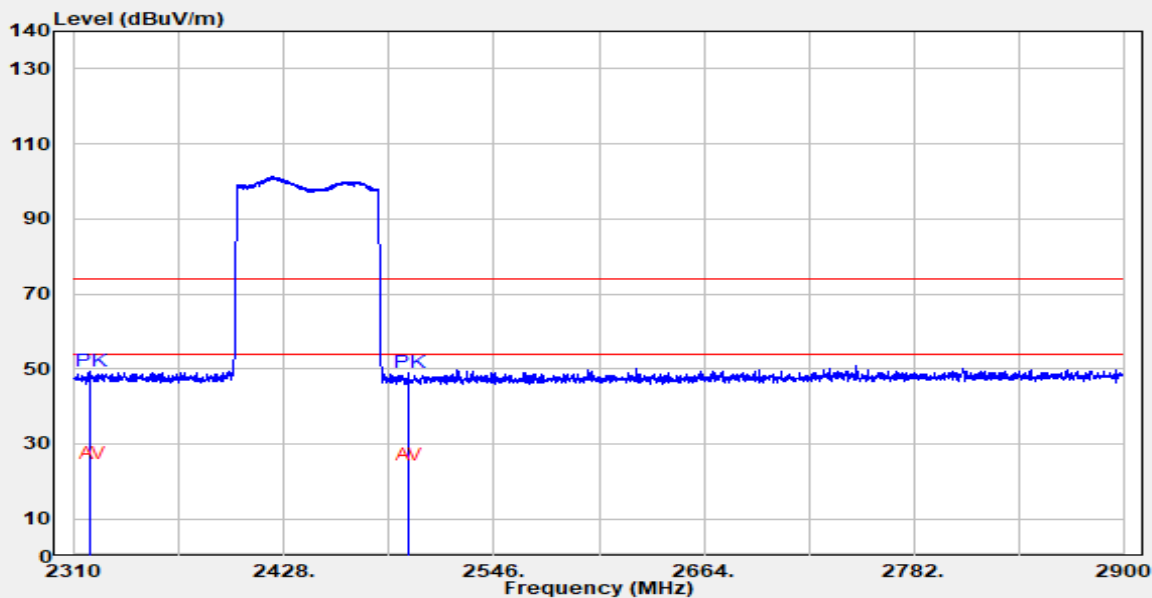
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2318.85	Peak	53.54	-4.32	49.22	74.00	-24.78
2318.85	Average	-	-	24.49	54.00	-29.51
2497.49	Peak	53.67	-4.77	48.90	74.00	-25.10
2497.49	Average	-	-	24.17	54.00	-29.83

Average Duty Cycle Factor=-24.73 (dB)

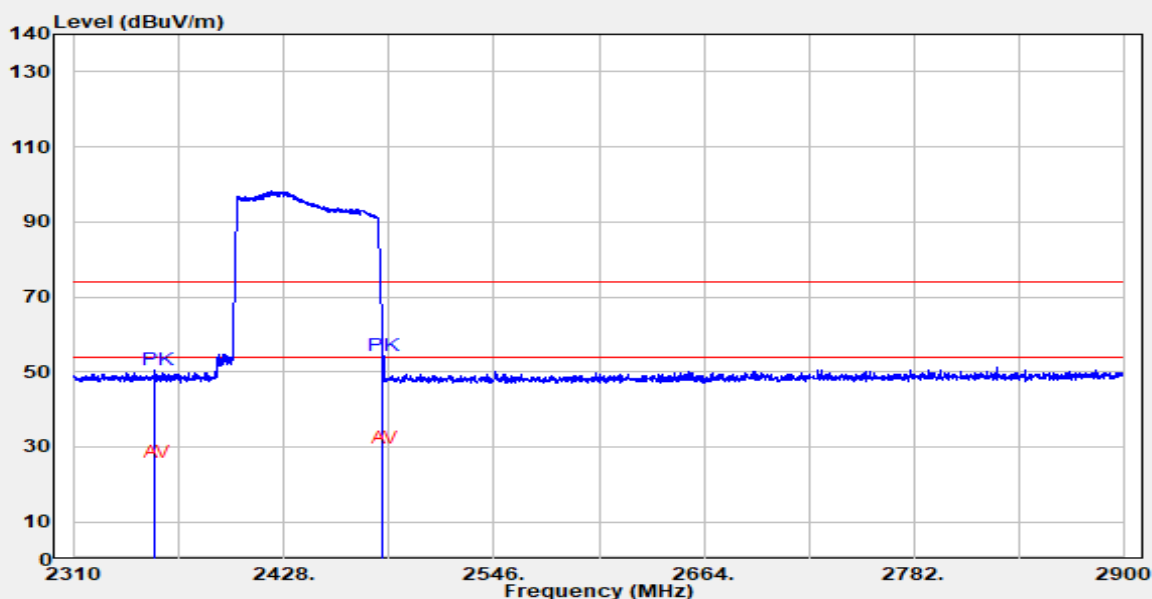
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2355.45	Peak	54.85	-4.39	50.46	74.00	-23.54
2355.45	Average	-	-	25.73	54.00	-28.27
2483.52	Peak	58.98	-4.77	54.21	74.00	-19.79
2483.52	Average	-	-	29.48	54.00	-24.52

Average Duty Cycle Factor=-24.73 (dB)

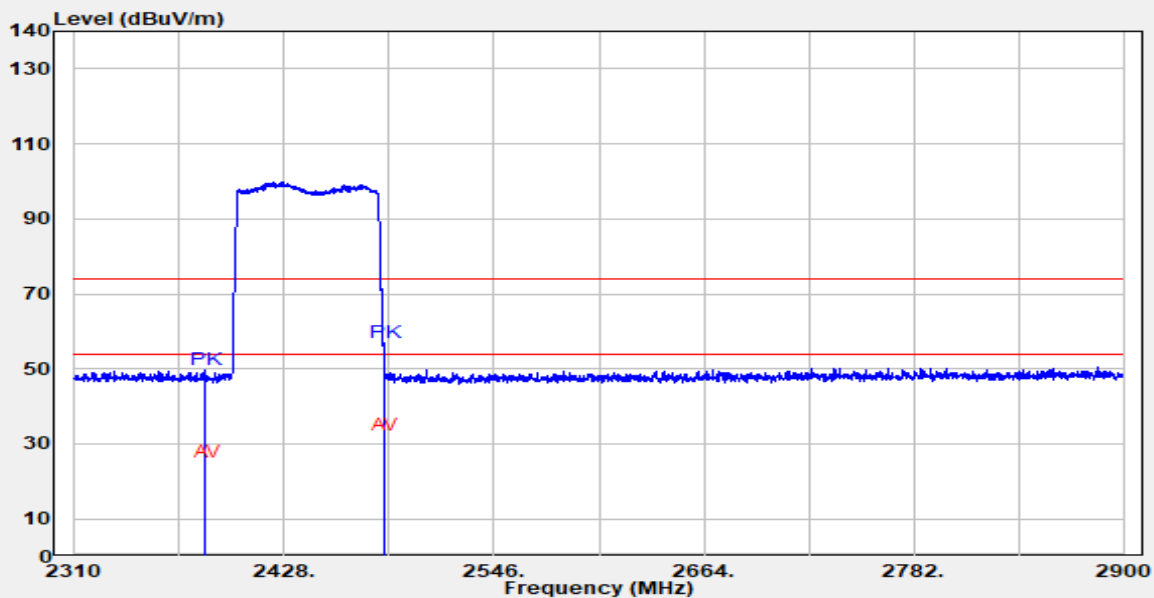
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2383.58	Peak	54.07	-4.46	49.61	74.00	-24.39
2383.58	Average	-	-	24.88	54.00	-29.12
2483.72	Peak	61.84	-4.77	57.07	74.00	-16.93
2483.72	Average	-	-	32.34	54.00	-21.66

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

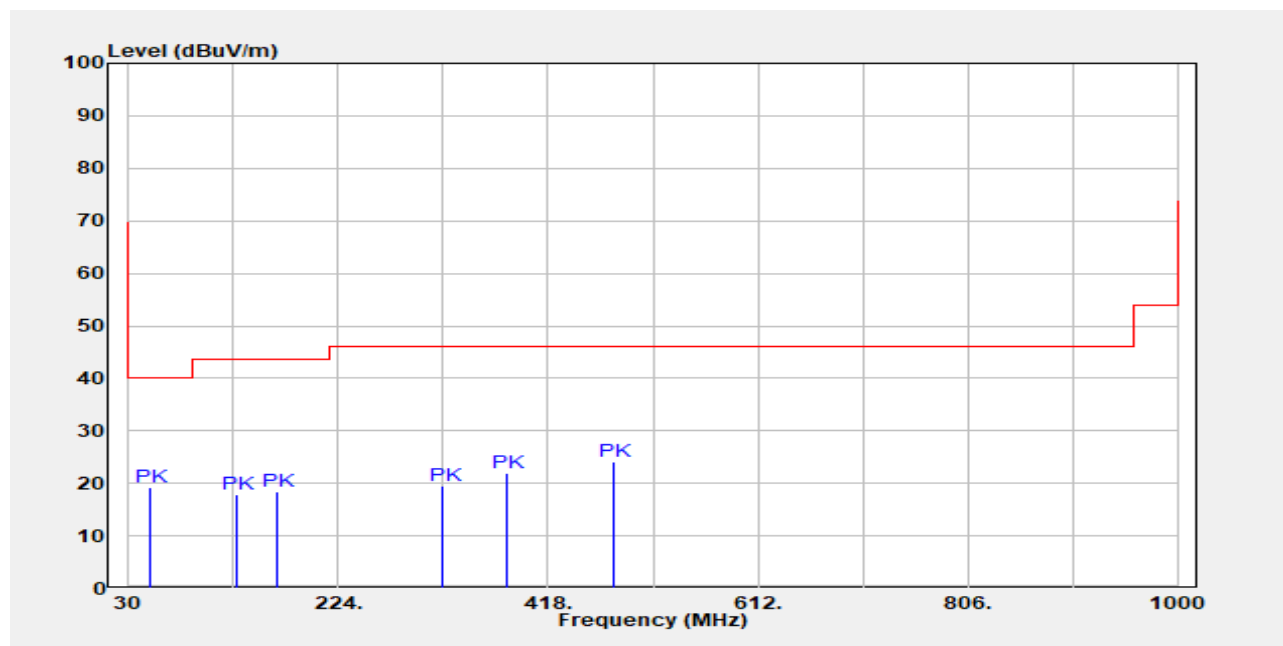
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7.1.4 Radiated Spurious Emission

Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



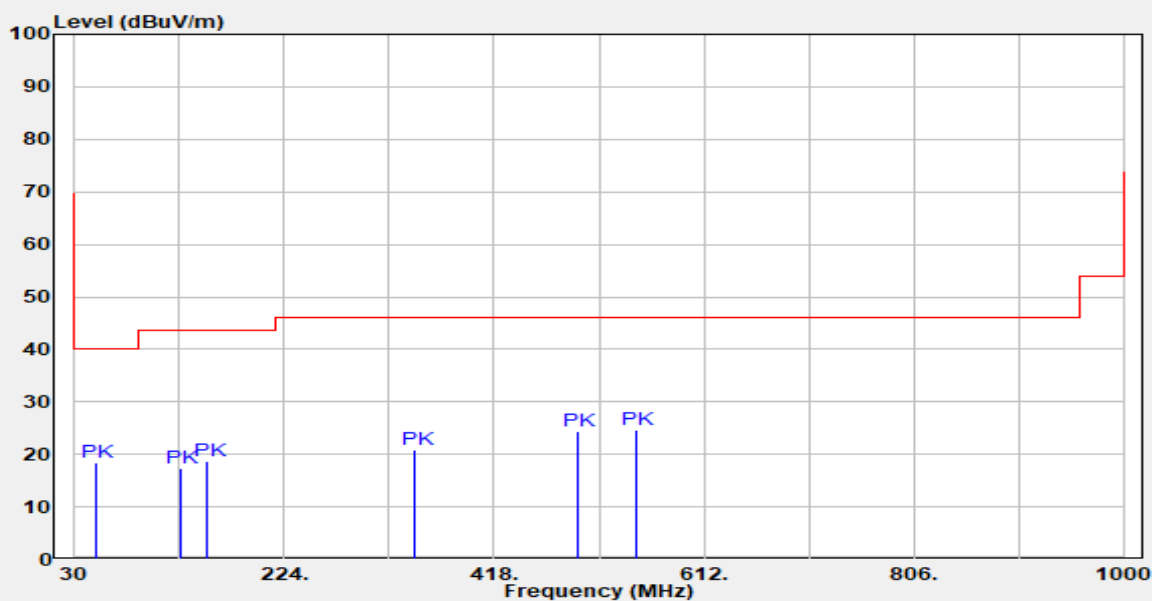
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.37	Peak	27.96	-8.73	19.23	40.00	-20.77
129.91	Peak	28.05	-10.12	17.93	43.50	-25.57
167.74	Peak	27.33	-8.92	18.41	43.50	-25.09
321.00	Peak	26.51	-6.87	19.64	46.00	-26.36
380.17	Peak	27.92	-6.04	21.88	46.00	-24.12
479.11	Peak	28.38	-4.14	24.24	46.00	-21.76

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Report Number :TERF2507002257ER
Operation Mode :BR
Test Frequency :2441 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2025-08-05
Temp./Humi. :24.8°C/62%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
49.40	Peak	27.23	-8.75	18.48	40.00	-21.52
127.97	Peak	27.68	-10.29	17.39	43.50	-26.11
153.19	Peak	27.00	-8.42	18.58	43.50	-24.92
345.25	Peak	27.45	-6.56	20.89	46.00	-25.11
494.63	Peak	28.49	-3.98	24.51	46.00	-21.49
549.92	Peak	27.91	-3.12	24.79	46.00	-21.21

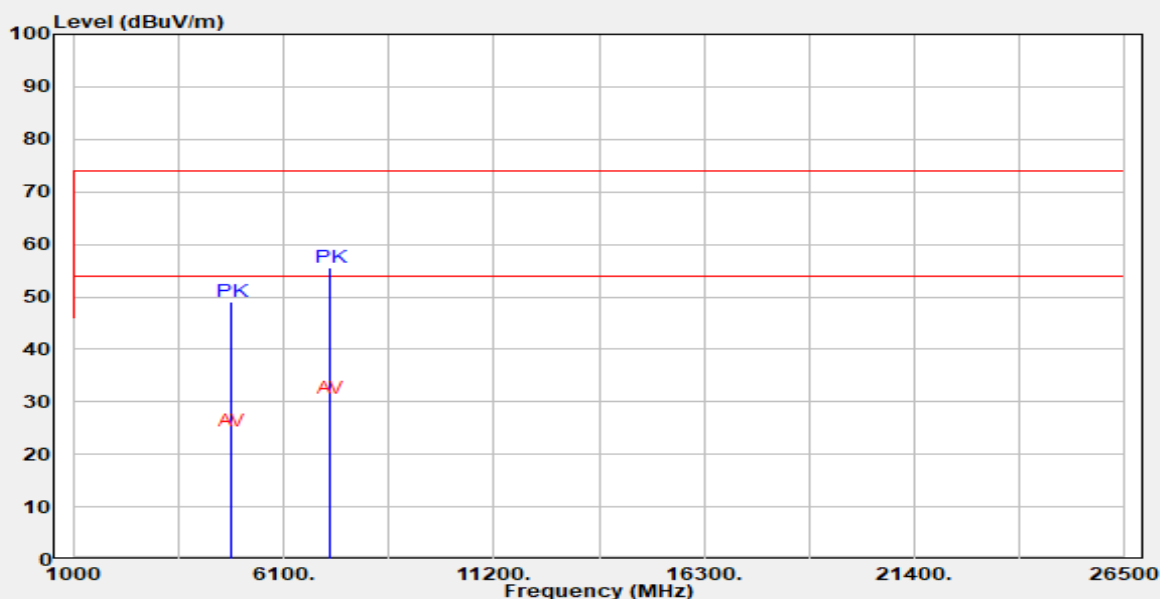
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Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	Peak	48.85	0.20	49.05	74.00	-24.95
4804.00	Average	-	-	24.32	54.00	-29.68
7206.00	Peak	50.00	5.47	55.47	74.00	-18.53
7206.00	Average	-	-	30.74	54.00	-23.26

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

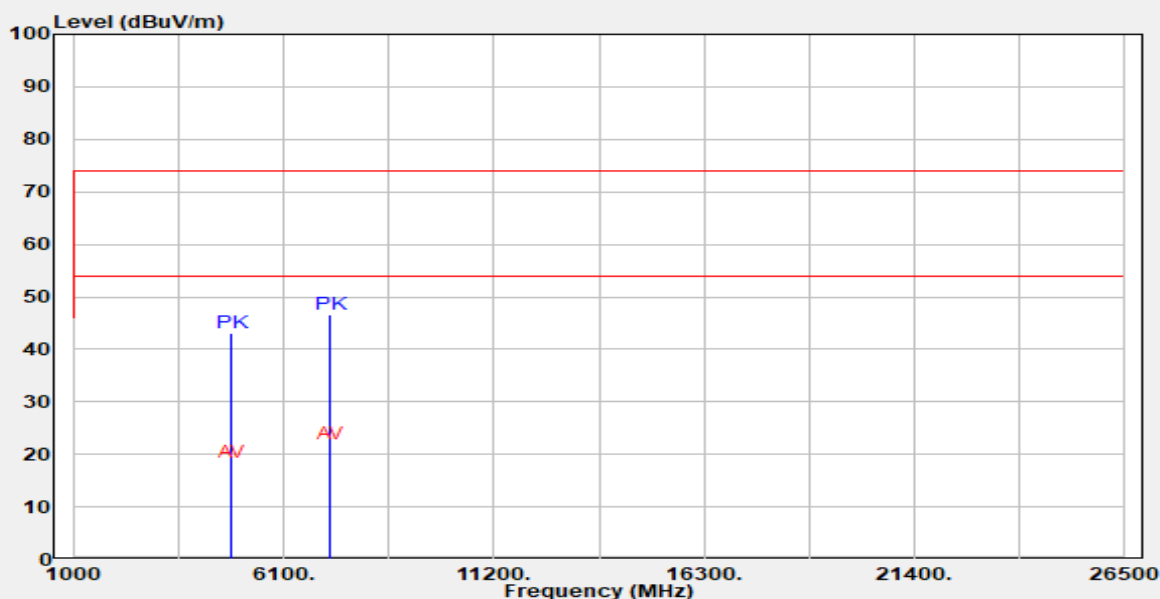
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Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	Peak	42.96	0.20	43.16	74.00	-30.84
4804.00	Average	-	-	18.43	54.00	-35.57
7206.00	Peak	41.18	5.47	46.65	74.00	-27.35
7206.00	Average	-	-	21.92	54.00	-32.08

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

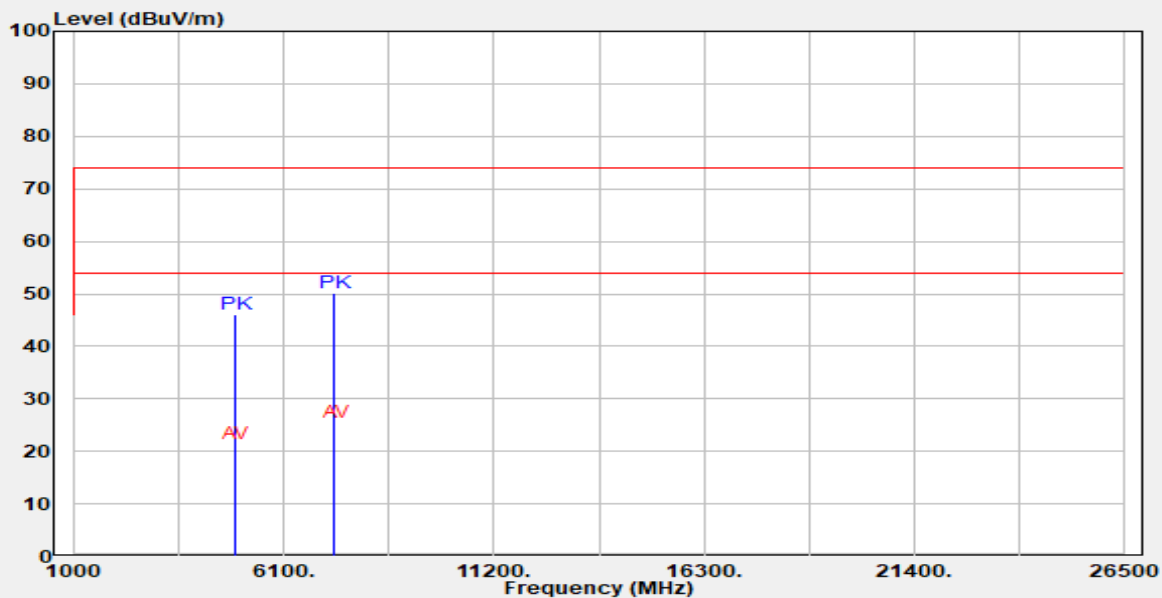
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Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4882.00	Peak	45.82	0.28	46.10	74.00	-27.90
4882.00	Average	-	-	21.37	54.00	-32.63
7323.00	Peak	44.57	5.70	50.27	74.00	-23.73
7323.00	Average	-	-	25.54	54.00	-28.46

Average Duty Cycle Factor=-24.73 (dB)

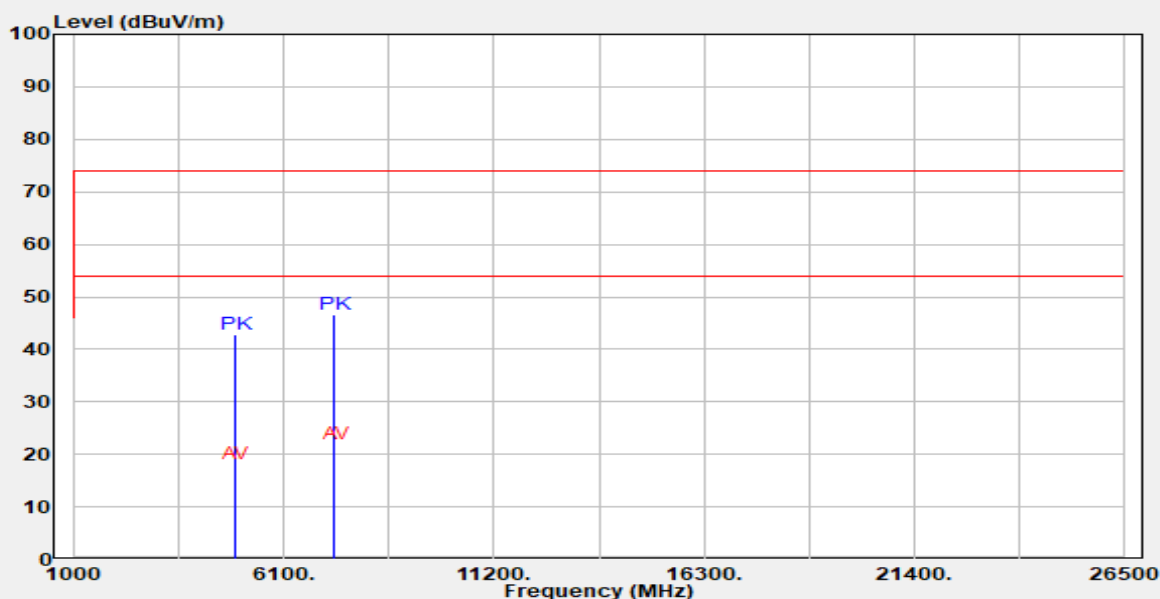
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4882.00	Peak	42.54	0.28	42.82	74.00	-31.18
4882.00	Average	-	-	18.09	54.00	-35.91
7323.00	Peak	41.01	5.70	46.71	74.00	-27.29
7323.00	Average	-	-	21.98	54.00	-32.02

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

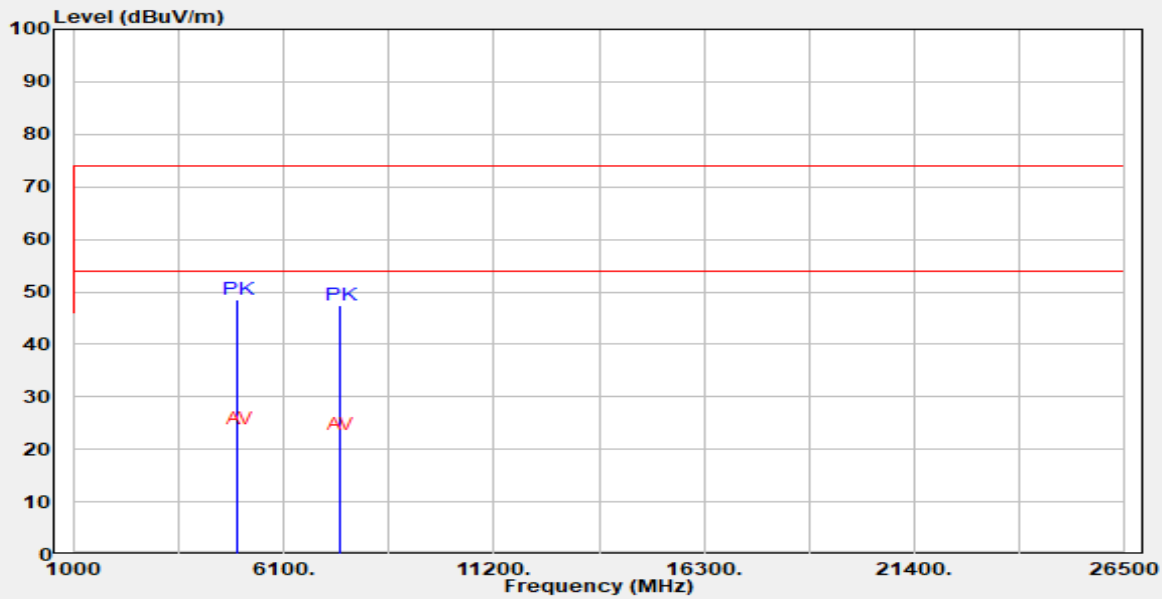
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Report Number :TERF2507002257ER
Operation Mode :BR
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2025-08-05
Temp./Humi. :24.8°C/62%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	Peak	47.92	0.56	48.48	74.00	-25.52
4960.00	Average	-	-	23.75	54.00	-30.25
7440.00	Peak	41.68	5.74	47.42	74.00	-26.58
7440.00	Average	-	-	22.69	54.00	-31.31

Average Duty Cycle Factor=-24.73 (dB)

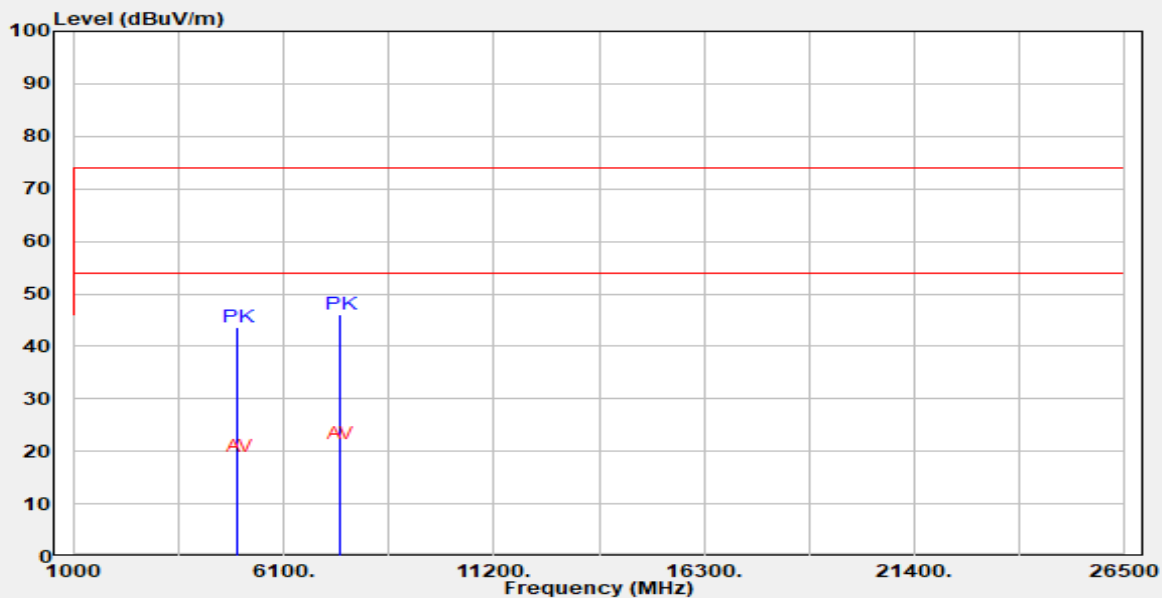
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	Peak	43.01	0.56	43.57	74.00	-30.43
4960.00	Average	-	-	18.84	54.00	-35.16
7440.00	Peak	40.39	5.74	46.13	74.00	-27.87
7440.00	Average	-	-	21.40	54.00	-32.60

Average Duty Cycle Factor=-24.73 (dB)

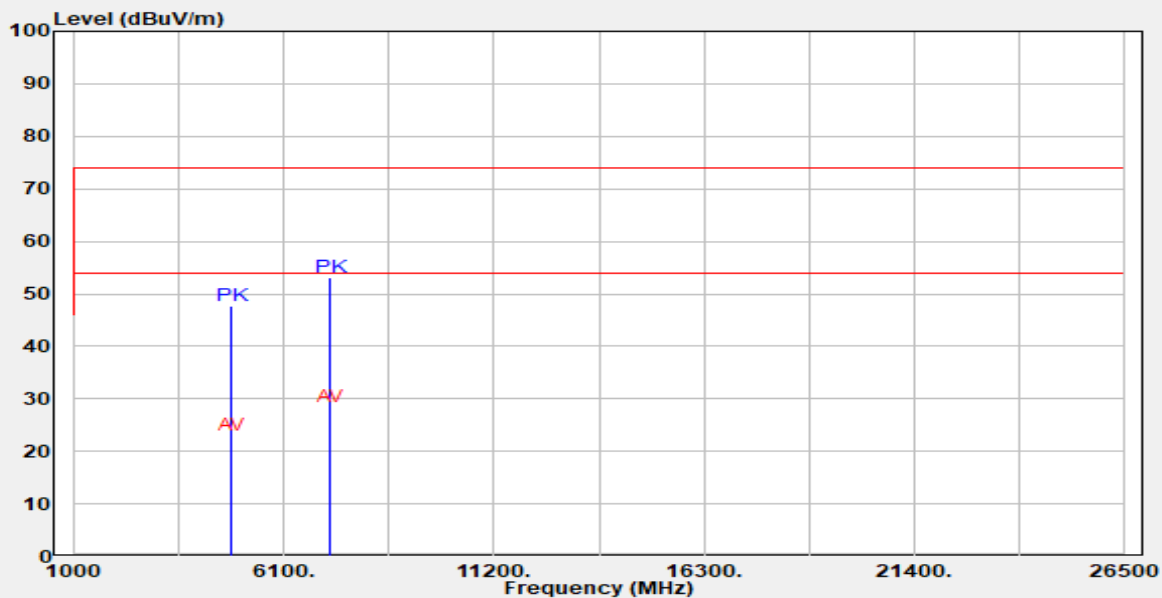
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	Peak	47.51	0.20	47.71	74.00	-26.29
4804.00	Average	-	-	22.98	54.00	-31.02
7206.00	Peak	47.69	5.47	53.16	74.00	-20.84
7206.00	Average	-	-	28.43	54.00	-25.57

Average Duty Cycle Factor=-24.73 (dB)

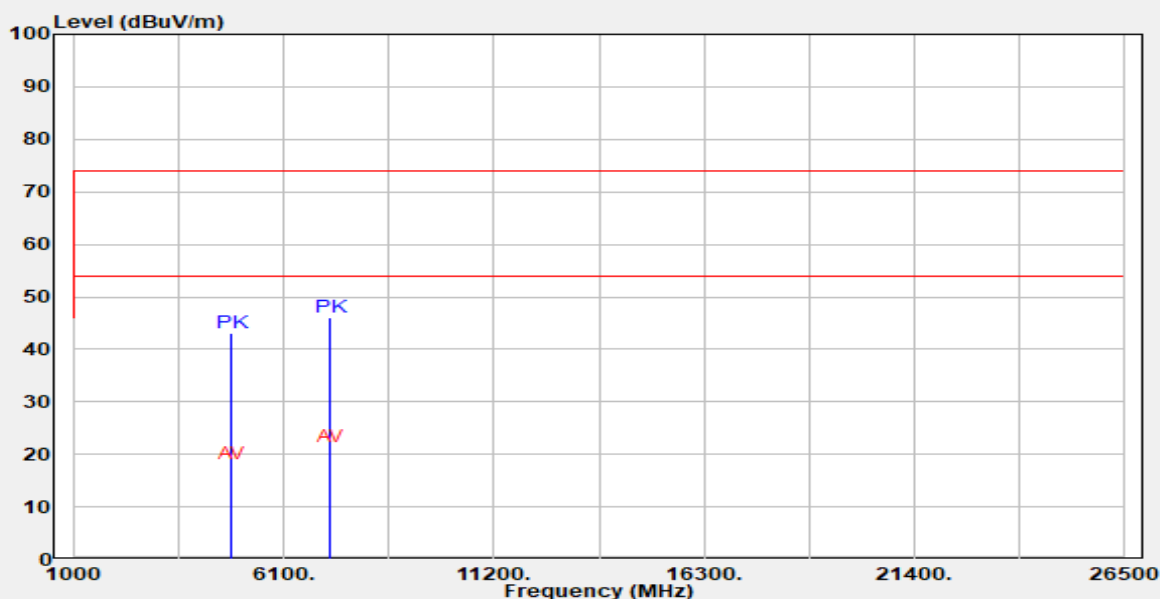
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	Peak	42.79	0.20	42.99	74.00	-31.01
4804.00	Average	-	-	18.26	54.00	-35.74
7206.00	Peak	40.73	5.47	46.20	74.00	-27.80
7206.00	Average	-	-	21.47	54.00	-32.53

Average Duty Cycle Factor=-24.73 (dB)

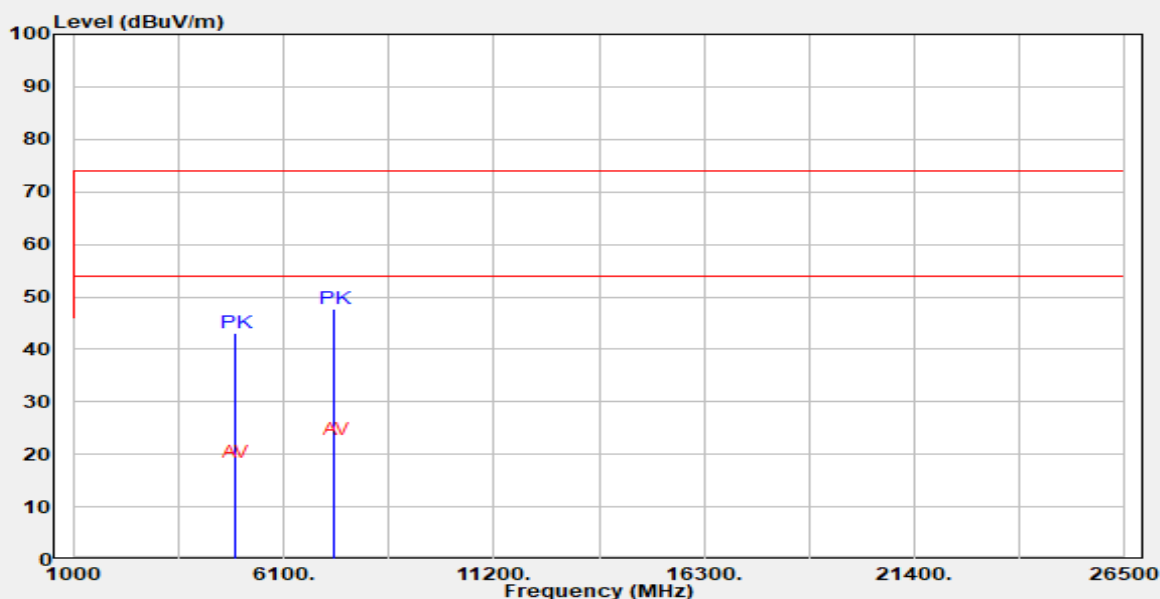
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4882.00	Peak	42.86	0.28	43.14	74.00	-30.86
4882.00	Average	-	-	18.41	54.00	-35.59
7323.00	Peak	41.87	5.70	47.57	74.00	-26.43
7323.00	Average	-	-	22.84	54.00	-31.16

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

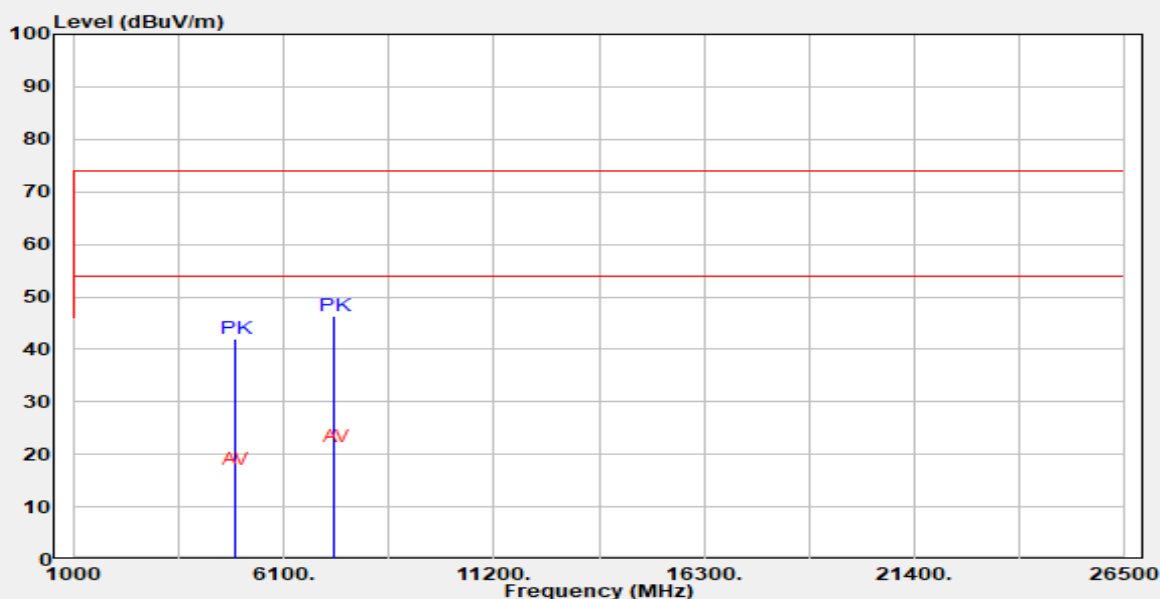
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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4882.00	Peak	41.65	0.28	41.93	74.00	-32.07
4882.00	Average	-	-	17.20	54.00	-36.80
7323.00	Peak	40.52	5.70	46.22	74.00	-27.78
7323.00	Average	-	-	21.49	54.00	-32.51

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

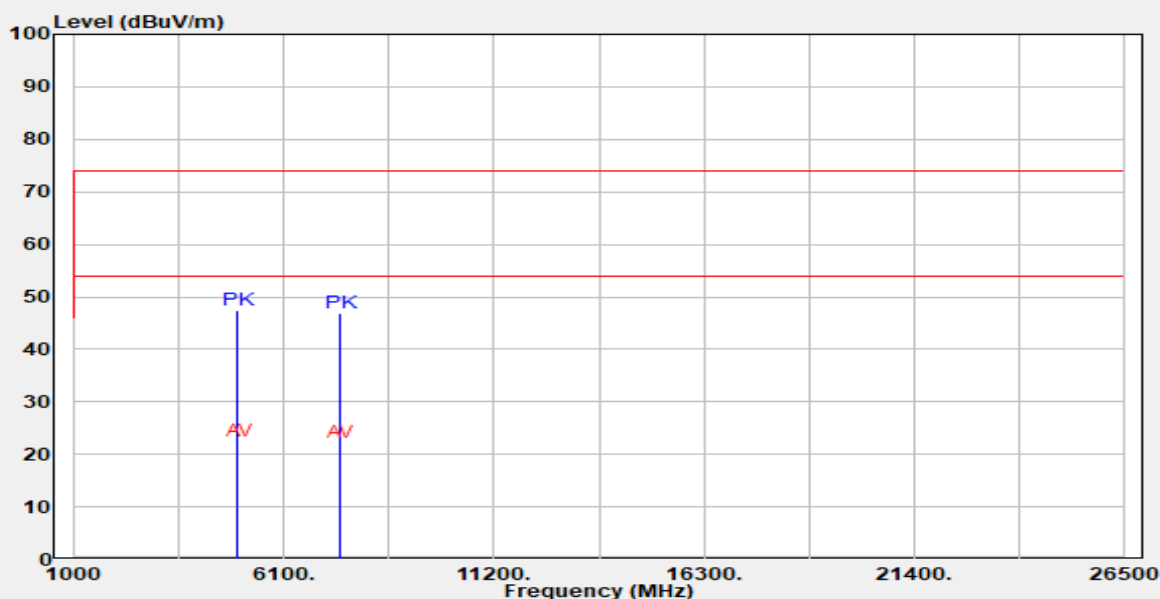
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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	Peak	46.74	0.56	47.30	74.00	-26.70
4960.00	Average	-	-	22.57	54.00	-31.43
7440.00	Peak	41.13	5.74	46.87	74.00	-27.13
7440.00	Average	-	-	22.14	54.00	-31.86

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

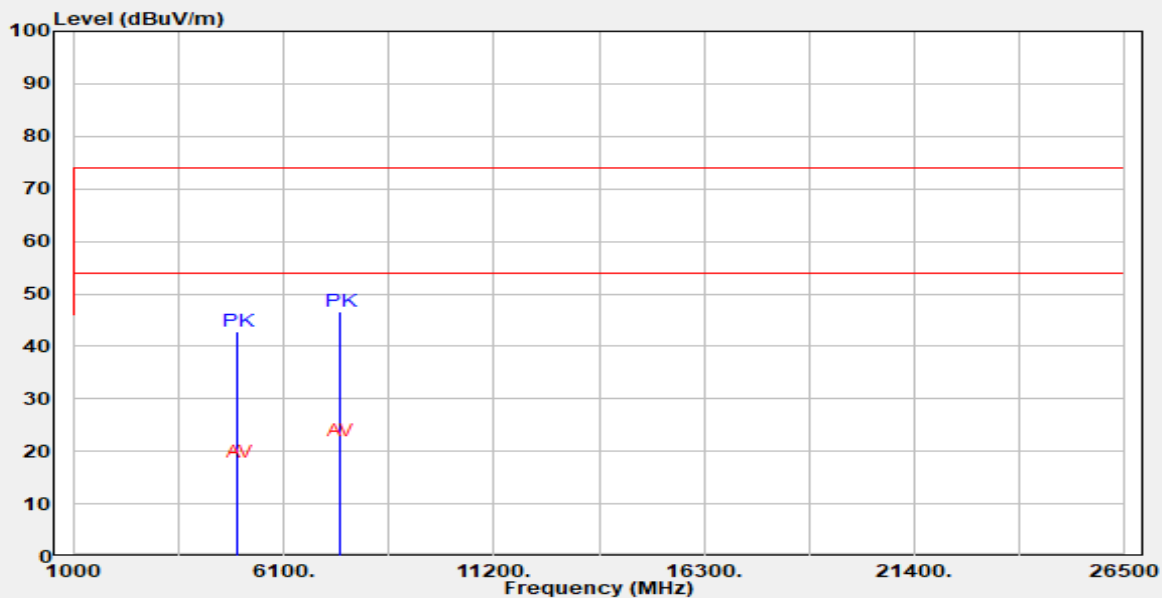
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Report Number :TERF2507002257ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2025-08-05
 Temp./Humi. :24.8°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	Peak	42.15	0.56	42.71	74.00	-31.29
4960.00	Average	-	-	17.98	54.00	-36.02
7440.00	Peak	40.95	5.74	46.69	74.00	-27.31
7440.00	Average	-	-	21.96	54.00	-32.04

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

~ End of Report ~

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