

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Wireless module installed in Notebook

Applicant: Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300,
Taiwan

Manufacturer: Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300,
Taiwan

Brand Name: REALTEK

Model No.: RTL8852CE

FCC Host Model: GA83H, GA83x ("x" means 20 alphanumeric, maybe 0-9, A-Z,
-, _, + or blank for marketing use only)

Report Number: TERF2507002414E2

FCC ID TX2-RTL8852CE

Date of EUT Received: N/A, the test results are fully leveraged from test report number
TERF2507002419E2, for more details please refer to section 3
in this report.

Date of Test: N/A, the test results are fully leveraged from test report number
TERF2507002419E2, for more details please refer to section 3
in this report.

Issue Date: August 22, 2025

Approved By

Aken 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 C63.10:2020 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
TERF2507002414E2	00	Original	August 22, 2025	Karen Huang	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of host model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description:	Wireless module installed in Notebook
Brand Name:	REALTEK
Model No.:	RTL8852CE
Host Brand Name:	GIGABYTE
FCC Host Model:	GA83H, GA83x ("x" means 20 alphanumeric, maybe 0-9, A-Z, -, _, + or blank for marketing use only)
Family FCC Host Model:	For marketing use only
Hardware Version:	N/A
Firmware Version:	6001.16.165.0
EUT Series No.:	S7986388600003
Power Supply:	15.56Vdc
Test Software (Name/Version):	Realtek Bluetooth RF Test Tool RtlBluetoothMP.dll Version:5.3.2.24 RTLBTAPP Version:5.2.3.77

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

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Main / Aux	Freq.	Peak Antenna Gain (dBi)
PIFA	High-tek	0ACCN025007N (DC330032J10)	Aux	2.4GHz	2.87
PIFA	PULSE	TZ3051E (DC330032K10)	Aux	2.4GHz	2.42

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, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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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 C63.10:2020.

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration 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 / 891563	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 / 200037	
		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.

Temperature:	22.6	°C	Relative Humidity:	61	%
Test site	Conducted D		Test Start:	08/04/2025	
Test Engineer:	Joey You		Test Done:	08/07/2025	

1.6 Special Accessories

There is no special accessory 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 Test (RF)

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

2.3.2 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration

Conducted Setup	Radiated Setup
	

2.6 Control Unit(s)

N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.247(b)(1)	Peak Output Power	Compliant	
§15.247(d) §15.209	Radiated Band Edge and Spurious Emission	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2507002419E2.

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

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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.

ANTENNA PORT CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Peak Output Power				
Bluetooth	0 to 78	0,39,78	GFSK	DH5
	0 to 78	0,39,78	$\pi/4$ -DQPSK	2DH5
	0 to 78	0,39,78	8-DPSK	3DH5

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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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
Frequency Separation	+/- 1.48 Hz
Number of hopping frequency	+/- 1.48 Hz
Time of Occupancy	+/- 1.48 Hz
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 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF18	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF19	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF35	11/14/2024	11/13/2025
Power Meter	Anritsu	ML2496A	1512003	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339378	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339379	09/04/2024	09/03/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/03/2025	06/02/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2025	03/01/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/06/2024	11/05/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM- 6000+EMC105-SM-SM- 12000+15	W13.01+150813+2 310002+15	11/14/2024	11/13/2025
EMI Test Receiver	R&S	ESU 40	100363	05/06/2025	05/05/2026
Highpass Filter	R&S	F13 HPF 3GHz	RF167	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/05/2025	02/04/2026
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Lowpass Filter	Woken	EWI-56-0019	RF163	11/14/2024	11/13/2025
Notch Filter	Micro-Tronics	BRM50701-02	RF208	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC330	980091	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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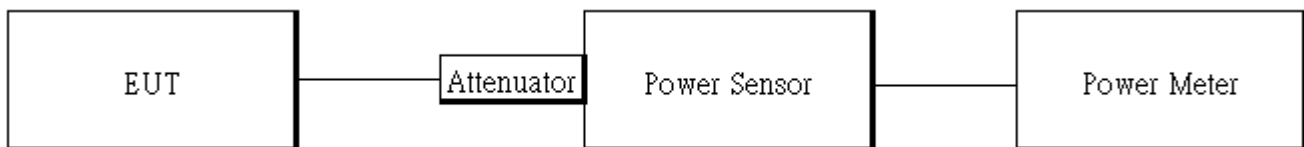
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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

7.2 Test Setup



7.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10 Measurement Guidelines.
3. Duty cycle of test signal is < 98 %, duty factor shall be considered.
4. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB band-width)
5. Record the max. reading.
6. Repeat above procedures until all default test channel is completed.

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7.4 Peak & Average Power Measurement Result

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
DH5	77.42	1.11
2DH5	77.51	1.11
3DH5	77.11	1.13

1M BR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x4F	12.06	16.069	1000
39	2441	0x4F	12.21	16.634	1000
78	2480	0x4F	11.95	15.668	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x4F	11.91	15.529	1000
39	2441	0x4F	12.16	16.449	1000
78	2480	0x4F	11.86	15.351	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x4E	12.01	15.885	125
39	2441	0x4E	12.15	16.406	125
78	2480	0x4E	11.86	15.346	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x4E	9.38	8.662	125
39	2441	0x4E	9.65	9.218	125
78	2480	0x4E	9.47	8.844	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x4D	11.95	15.668	125
39	2441	0x4D	12.06	16.069	125
78	2480	0x4D	11.81	15.171	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x4D	9.31	8.529	125
39	2441	0x4D	9.05	8.033	125
78	2480	0x4D	8.88	7.725	125

*Note: Avg. output power has been calculated with duty factor.

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8 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

8.1 Standard Applicable

8.1.1 Duty Cycle Correction Factor

According to 15.35(c), the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

8.1.2 Spurious Emission

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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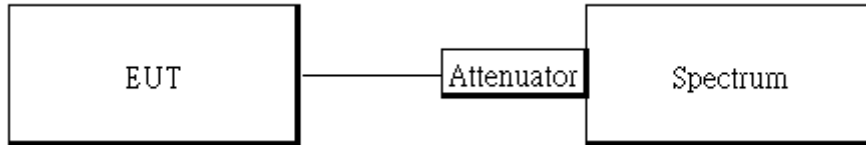
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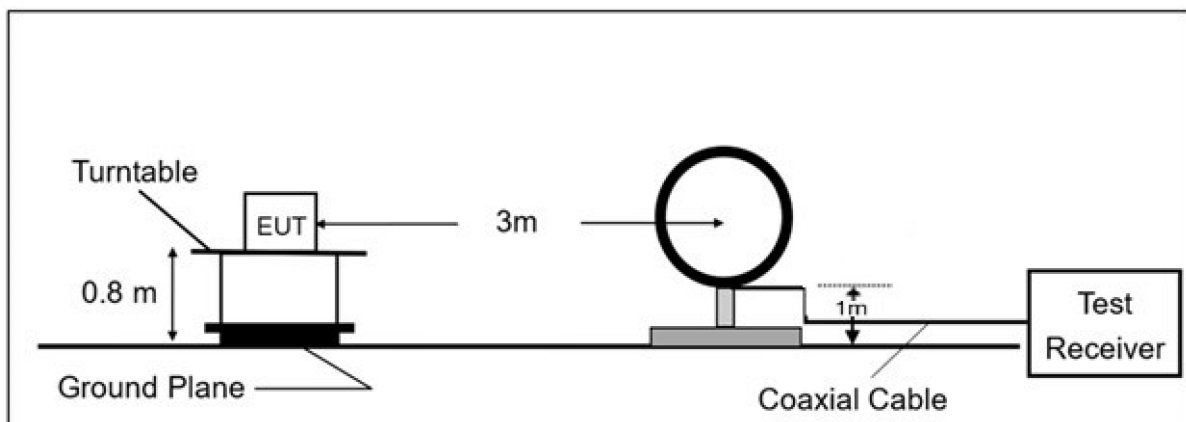
8.2 Test Setup

8.2.1 Duty Cycle Correction Factor

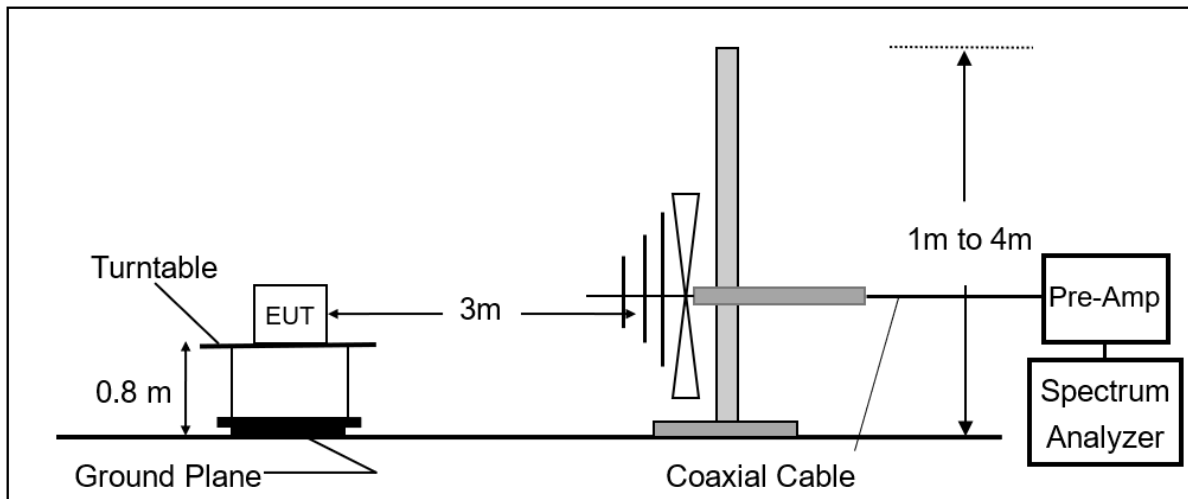


8.2.2 Radiated Emission

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



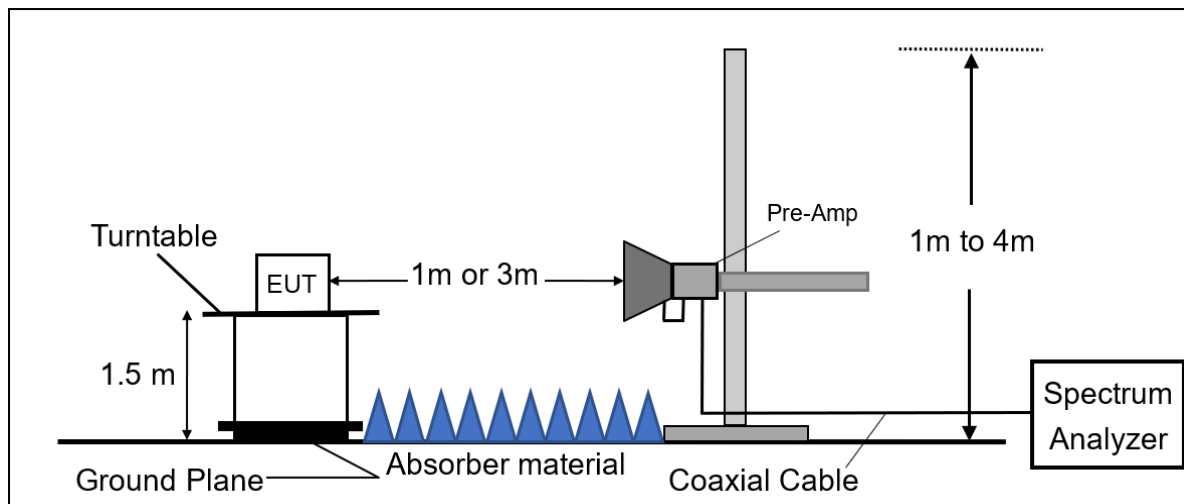
(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



8.3 Measurement Procedure

8.3.1 Duty Cycle Correction Factor

1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
2. The testing follows ANSI C63.10:2020.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep=100ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

8.3.2 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2020.
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.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2020 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$.
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.

8.4 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)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \log(uV/m)$

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

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

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

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

8.5 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

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

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8.6 Measurement Result:

8.6.1 Duty Cycle Correction Factor

Bluetooth 1M

Time ON of 100ms: 2.900 ms
Duty Cycle=2.9ms / 100ms= 0.029
Duty Cycle correction factor=20 LOG 0.029 = -30.75 dB

Bluetooth 3M

Time ON of 100ms: 2.900 ms
Duty Cycle=2.9ms / 100ms= 0.029
Duty Cycle correction factor=20 LOG 0.029 = -30.75 dB

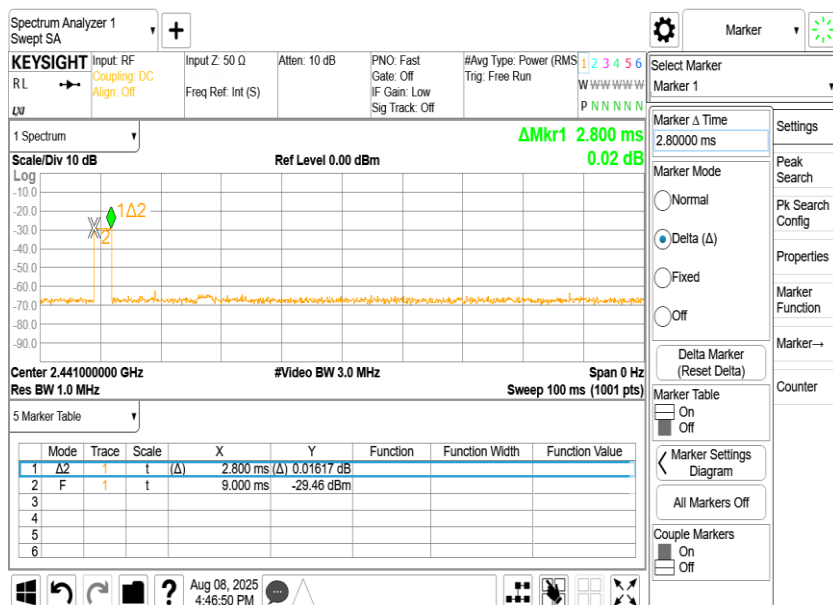
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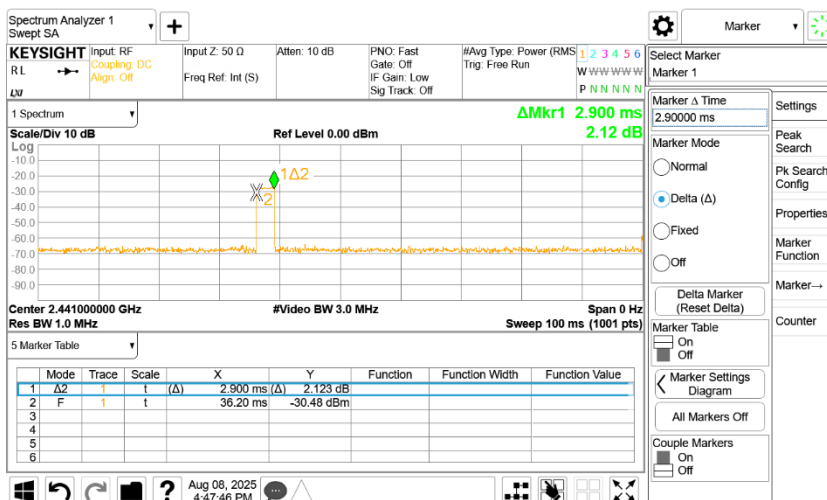
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8.6.2 Duty Cycle test plot

BR



EDR



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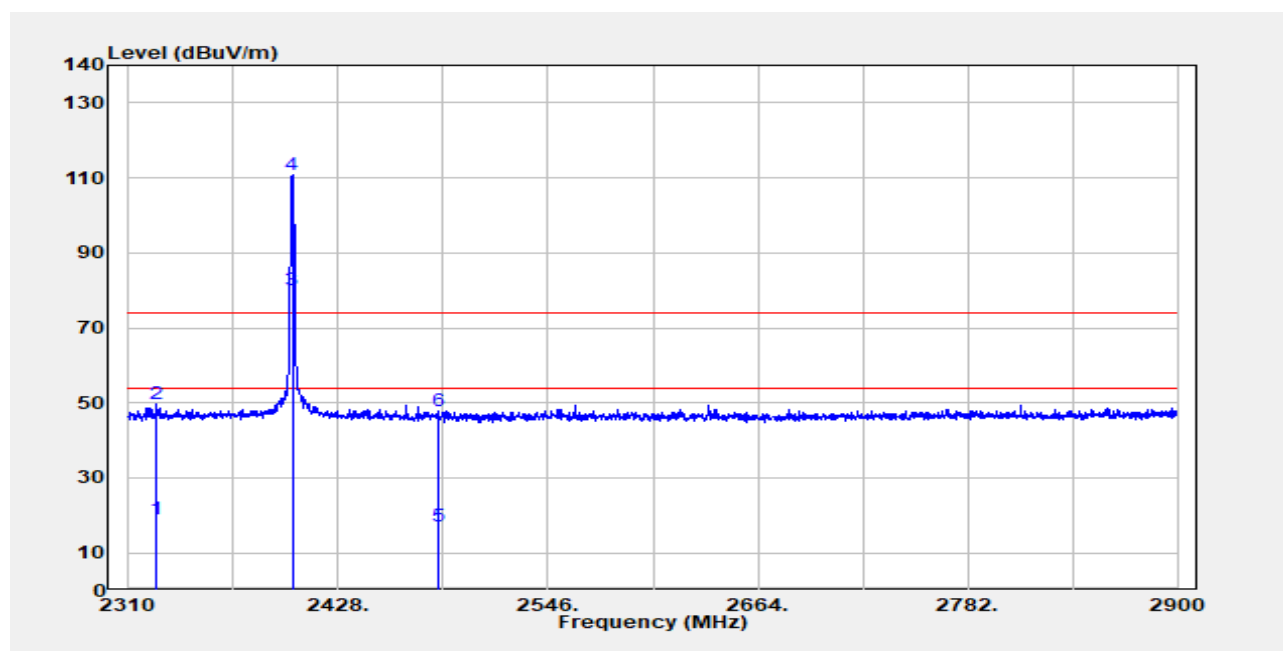
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8.6.3 Bandedge Result

Report Number :TERF2507002419E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2325.54	Average	-	-	18.91	54.00	-35.09
2325.54	Peak	53.40	-3.74	49.66	74.00	-24.34
2402.00	Average	-	-	80.07	-	-
2402.00	Peak	114.83	-4.01	110.82	-	-
2484.31	Average	-	-	17.04	54.00	-36.96
2484.31	Peak	51.90	-4.11	47.79	74.00	-26.21

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

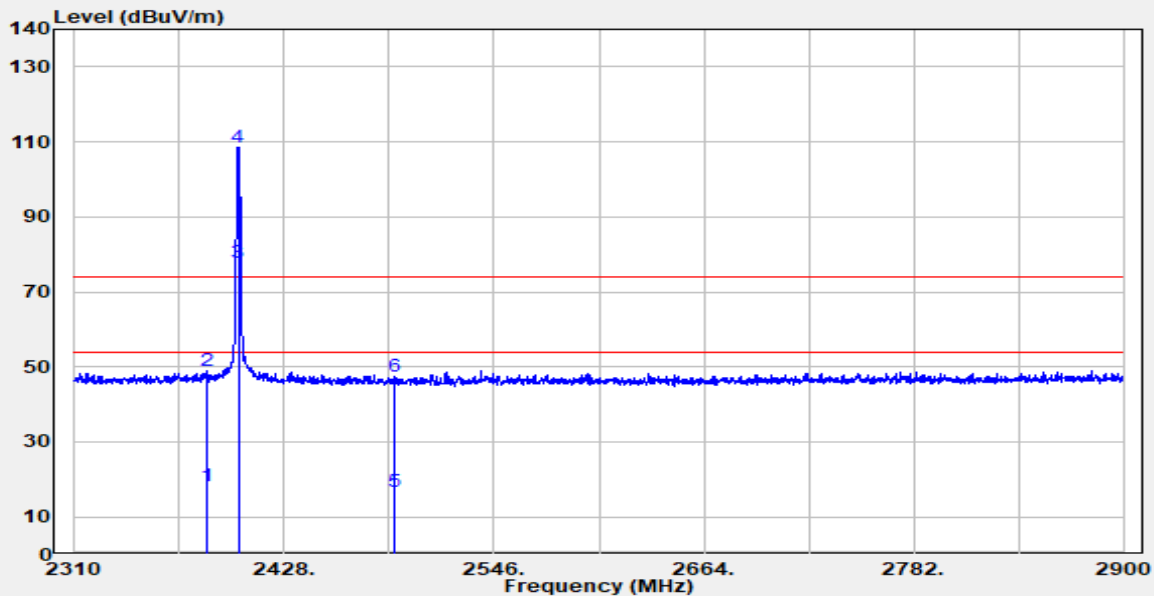
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Report Number :TERF2507002419E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2383.97	Average	-	-	18.22	54.00	-35.78
2383.97	Peak	52.89	-3.92	48.97	74.00	-25.03
2402.00	Average	-	-	77.93	-	-
2402.00	Peak	112.69	-4.01	108.68	-	-
2489.42	Average	-	-	16.66	54.00	-37.34
2489.42	Peak	51.48	-4.07	47.41	74.00	-26.59

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

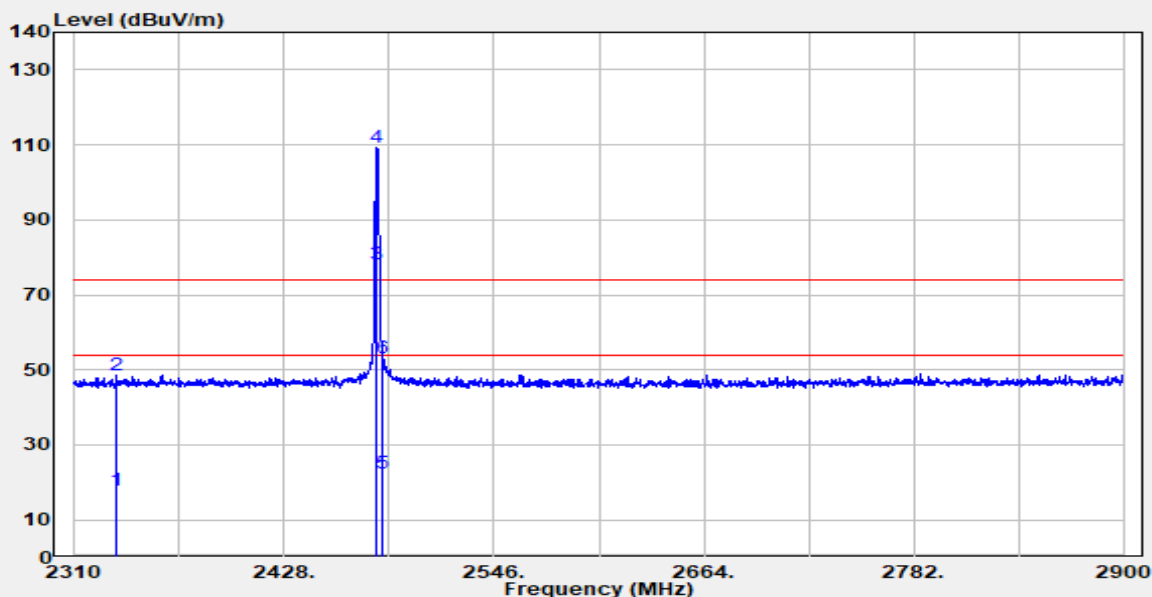
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Report Number :TERF2507002419E2
Operation Mode :BR
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :NB Mode

Test Site :SAC C
Test Date :2025-08-08
Temp./Humi. :22.5°C/58%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2333.61	Average	-	-	17.88	54.00	-36.12
2333.61	Peak	52.40	-3.77	48.63	74.00	-25.37
2480.00	Average	-	-	78.33	-	-
2480.00	Peak	113.23	-4.15	109.08	-	-
2483.52	Average	-	-	22.23	54.00	-31.77
2483.52	Peak	57.09	-4.11	52.98	74.00	-21.02

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

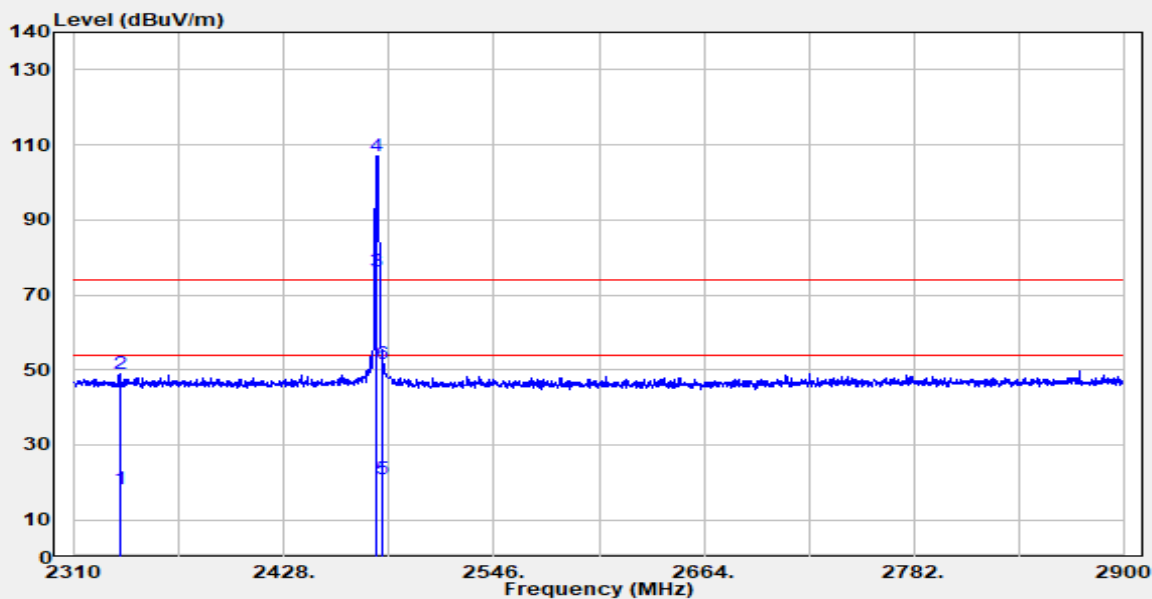
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Report Number :TERF2507002419E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2335.18	Average	-	-	18.03	54.00	-35.97
2335.18	Peak	52.55	-3.77	48.78	74.00	-25.22
2480.00	Average	-	-	76.16	-	-
2480.00	Peak	111.06	-4.15	106.91	-	-
2483.52	Average	-	-	20.74	54.00	-33.26
2483.52	Peak	55.60	-4.11	51.49	74.00	-22.51

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

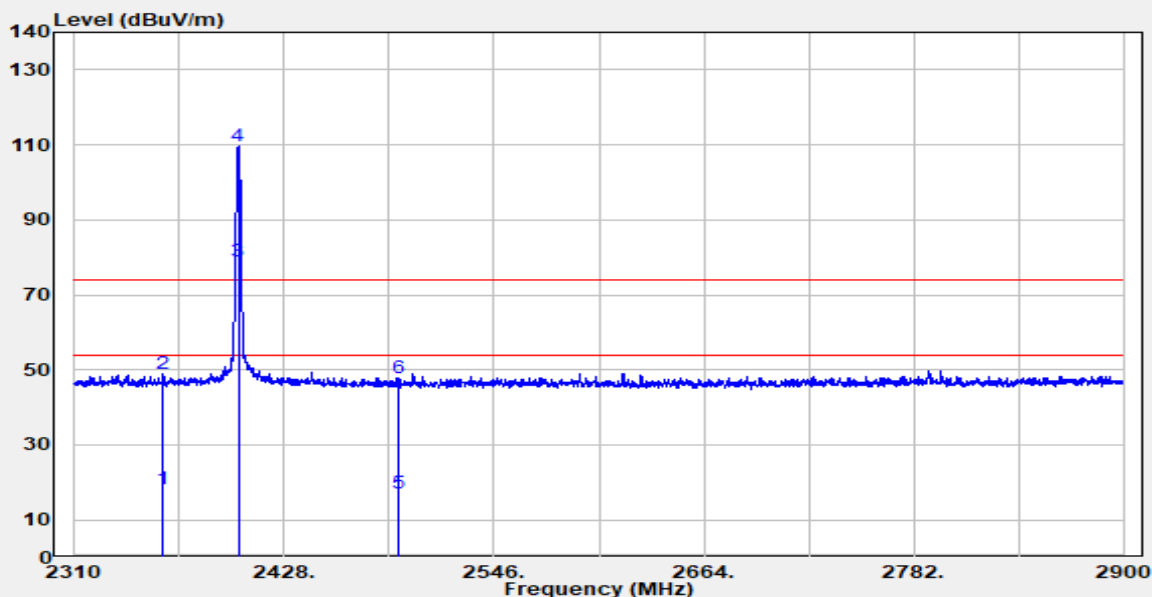
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Report Number :TERF2507002419E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2359.97	Average	-	-	18.16	54.00	-35.84
2359.97	Peak	52.76	-3.85	48.91	74.00	-25.09
2402.00	Average	-	-	78.86	-	-
2402.00	Peak	113.62	-4.01	109.61	-	-
2491.98	Average	-	-	16.96	54.00	-37.04
2491.98	Peak	51.79	-4.08	47.71	74.00	-26.29

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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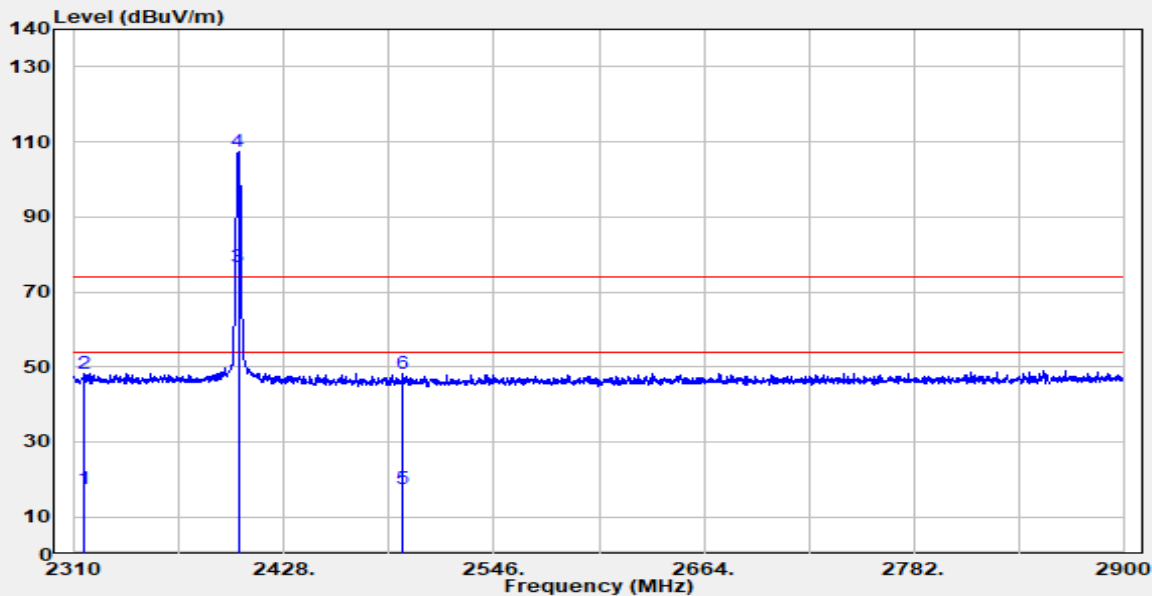
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Report Number :TERF2507002419E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



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	Average	-	-	17.61	54.00	-36.39
2314.92	Peak	52.06	-3.70	48.36	74.00	-25.64
2402.00	Average	-	-	76.52	-	-
2402.00	Peak	111.28	-4.01	107.27	-	-
2494.54	Average	-	-	17.41	54.00	-36.59
2494.54	Peak	52.26	-4.10	48.16	74.00	-25.84

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

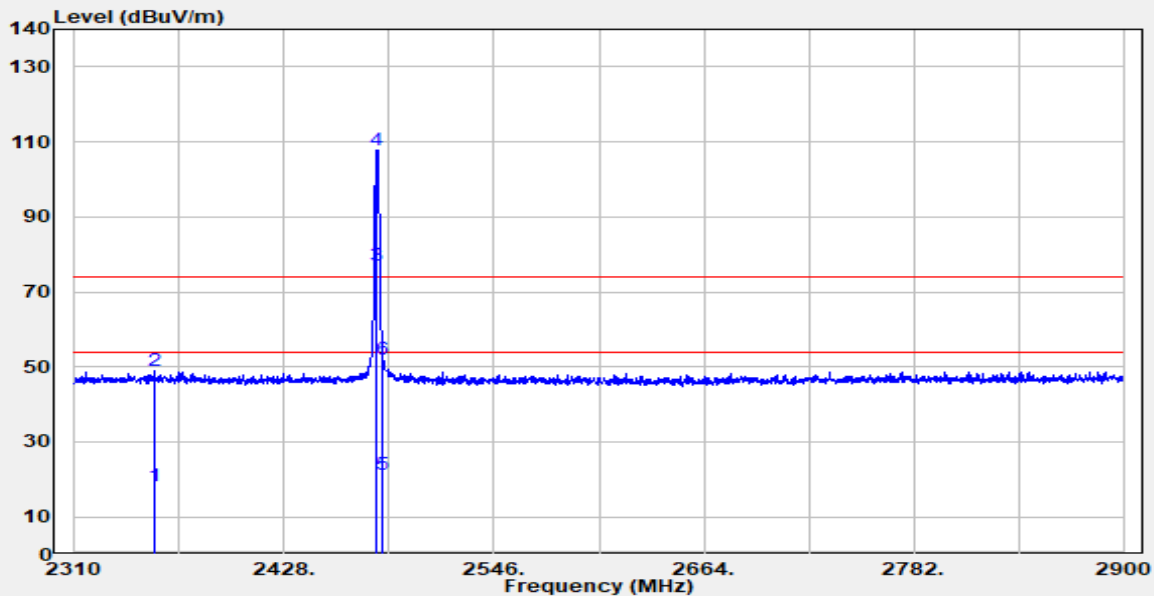
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Report Number :TERF2507002419E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2355.25	Average	-	-	18.06	54.00	-35.94
2355.25	Peak	52.66	-3.85	48.81	74.00	-25.19
2480.00	Average	-	-	77.18	-	-
2480.00	Peak	112.08	-4.15	107.93	-	-
2483.52	Average	-	-	21.20	54.00	-32.80
2483.52	Peak	56.06	-4.11	51.95	74.00	-22.05

Average Duty Cycle Factor=-30.75 (dB)

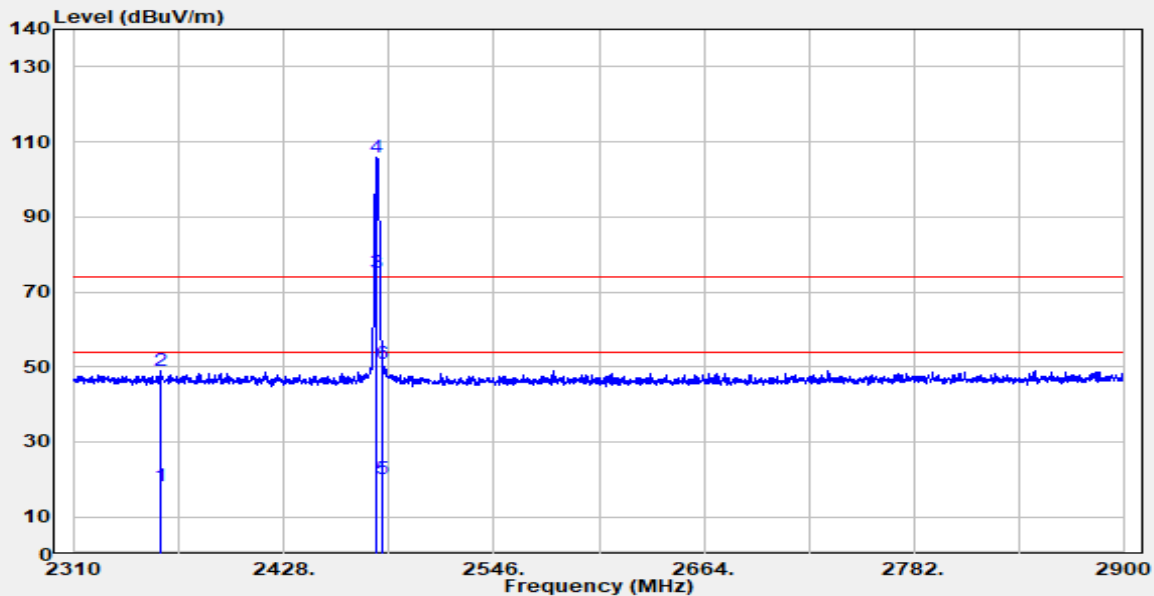
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2507002419E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2358.00	Average	-	-	18.31	54.00	-35.69
2358.00	Peak	52.91	-3.85	49.06	74.00	-24.94
2480.00	Average	-	-	74.97	-	-
2480.00	Peak	109.87	-4.15	105.72	-	-
2483.52	Average	-	-	20.10	54.00	-33.90
2483.52	Peak	54.96	-4.11	50.85	74.00	-23.15

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

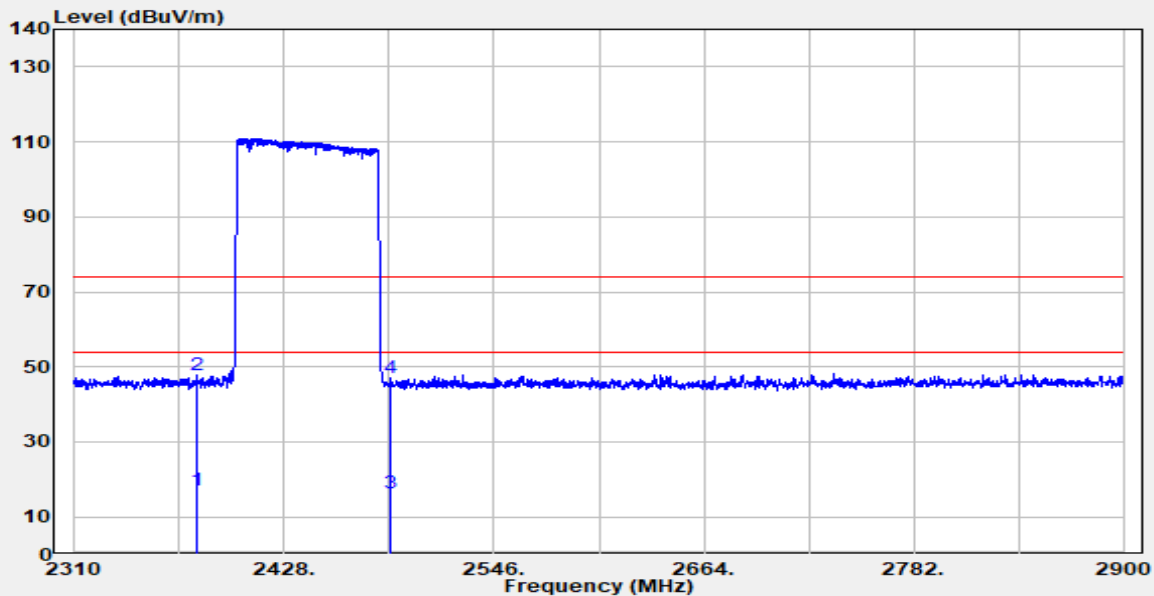
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Report Number :TERF2507002419E2
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2378.46	Average	-	-	16.92	54.00	-37.08
2378.46	Peak	51.58	-3.91	47.67	74.00	-26.33
2487.45	Average	-	-	16.46	54.00	-37.54
2487.45	Peak	51.29	-4.08	47.21	74.00	-26.79

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

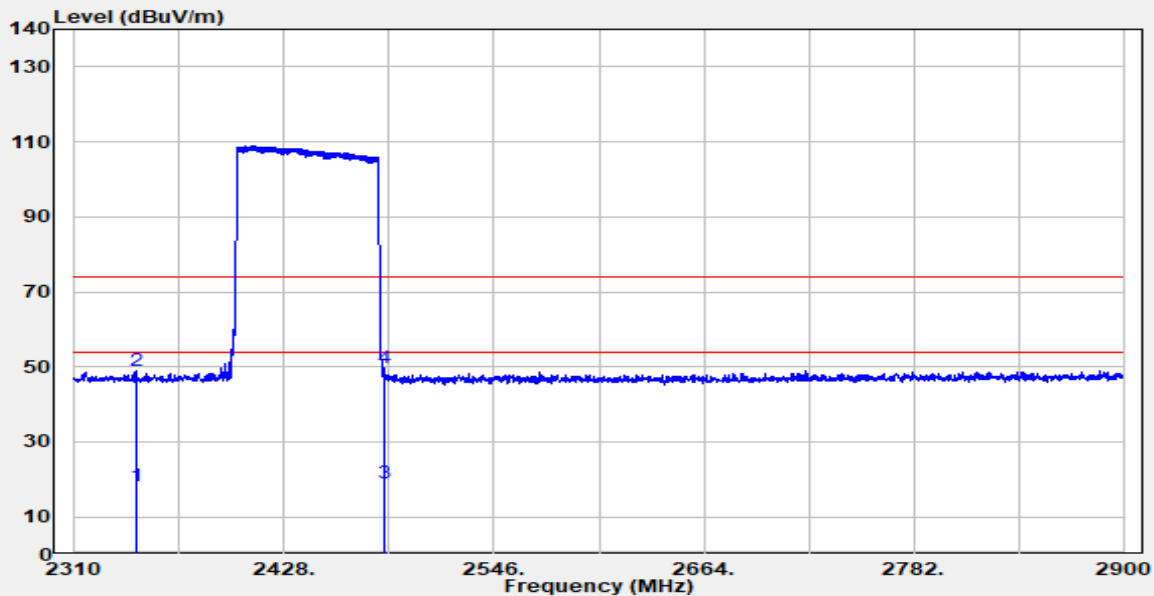
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Report Number :TERF2507002419E2
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2344.23	Average	-	-	18.18	54.00	-35.82
2344.23	Peak	52.74	-3.81	48.93	74.00	-25.07
2483.91	Average	-	-	19.03	54.00	-34.97
2483.91	Peak	53.89	-4.11	49.78	74.00	-24.22

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

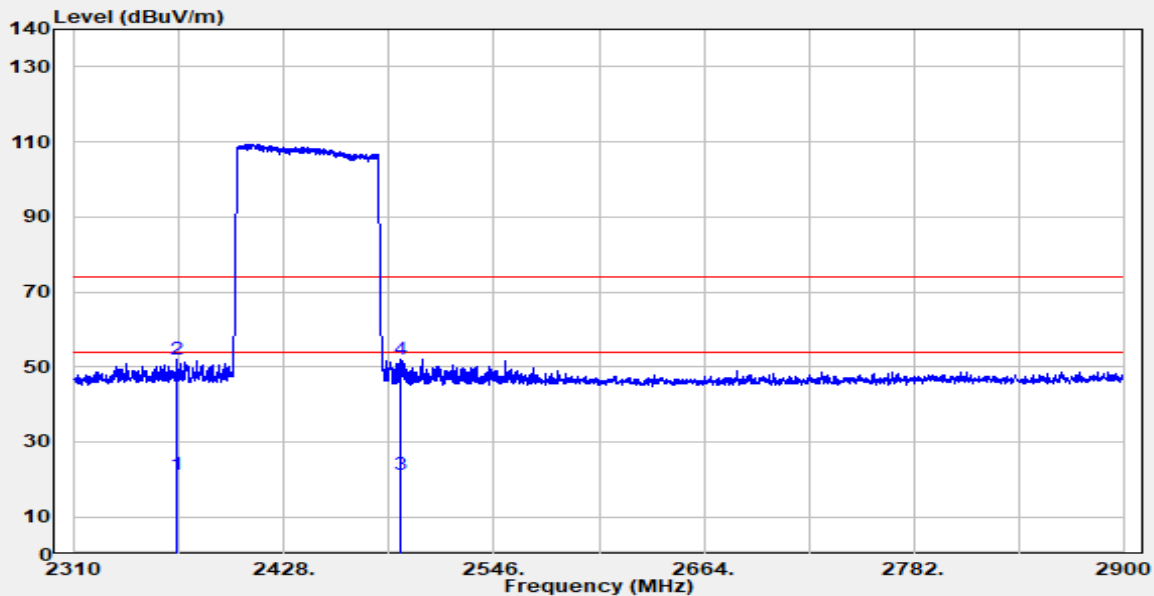
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Report Number :TERF2507002419E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2367.45	Average	-	-	21.28	54.00	-32.72
2367.45	Peak	55.88	-3.85	52.03	74.00	-21.97
2492.76	Average	-	-	21.07	54.00	-32.93
2492.76	Peak	55.91	-4.09	51.82	74.00	-22.18

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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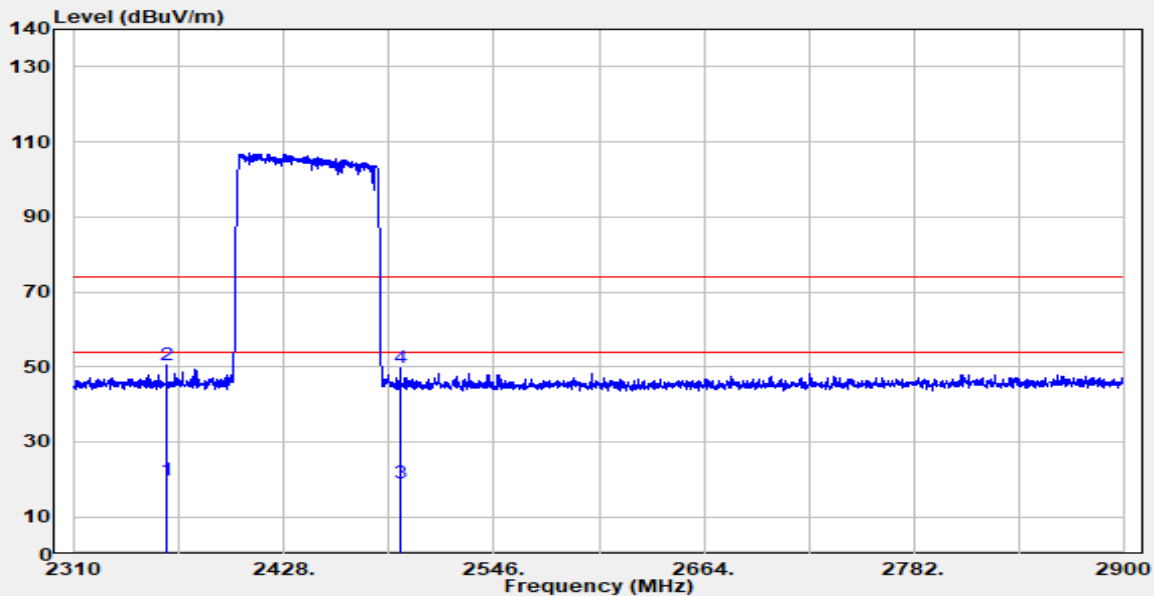
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Report Number :TERF2507002419E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2361.54	Average	-	-	19.55	54.00	-34.45
2361.54	Peak	54.14	-3.84	50.30	74.00	-23.70
2493.16	Average	-	-	19.06	54.00	-34.94
2493.16	Peak	53.90	-4.09	49.81	74.00	-24.19

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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.

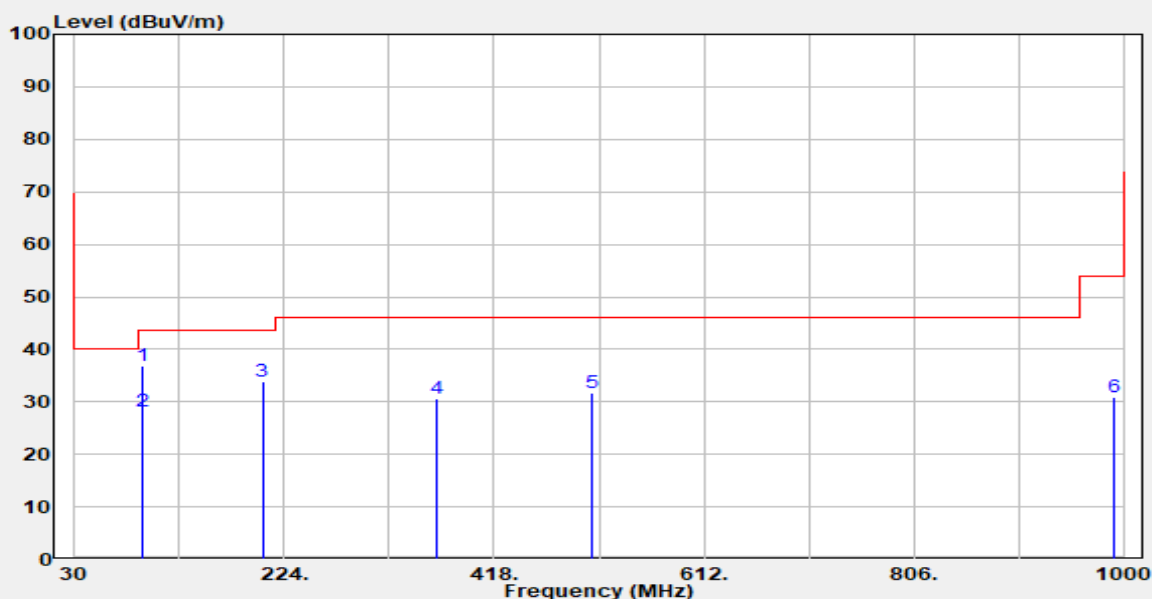
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8.6.4 Radiated Spurious Emission

Report Number :TERF2507002419E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Alex Li



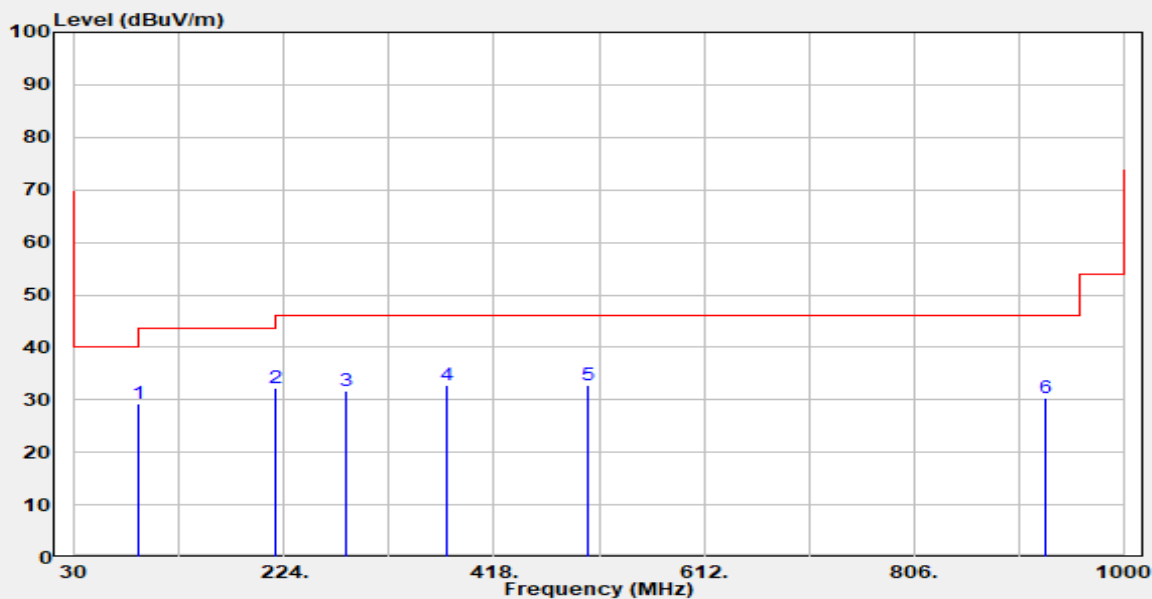
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.08	Peak	54.98	-18.03	36.95	43.50	-6.55
92.08	QP	46.11	-18.03	28.08	43.50	-15.42
203.63	Peak	49.04	-15.20	33.84	43.50	-9.66
365.62	Peak	40.08	-9.35	30.73	46.00	-15.27
509.18	Peak	37.30	-5.66	31.64	46.00	-14.36
991.27	Peak	29.52	1.48	31.00	54.00	-23.00

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 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
89.17	Peak	47.51	-18.16	29.35	43.50	-14.15
215.27	Peak	47.41	-15.06	32.35	43.50	-11.15
281.23	Peak	43.13	-11.43	31.70	46.00	-14.30
374.35	Peak	41.85	-8.98	32.87	46.00	-13.13
505.30	Peak	38.41	-5.74	32.67	46.00	-13.33
927.25	Peak	29.05	1.27	30.32	46.00	-15.68

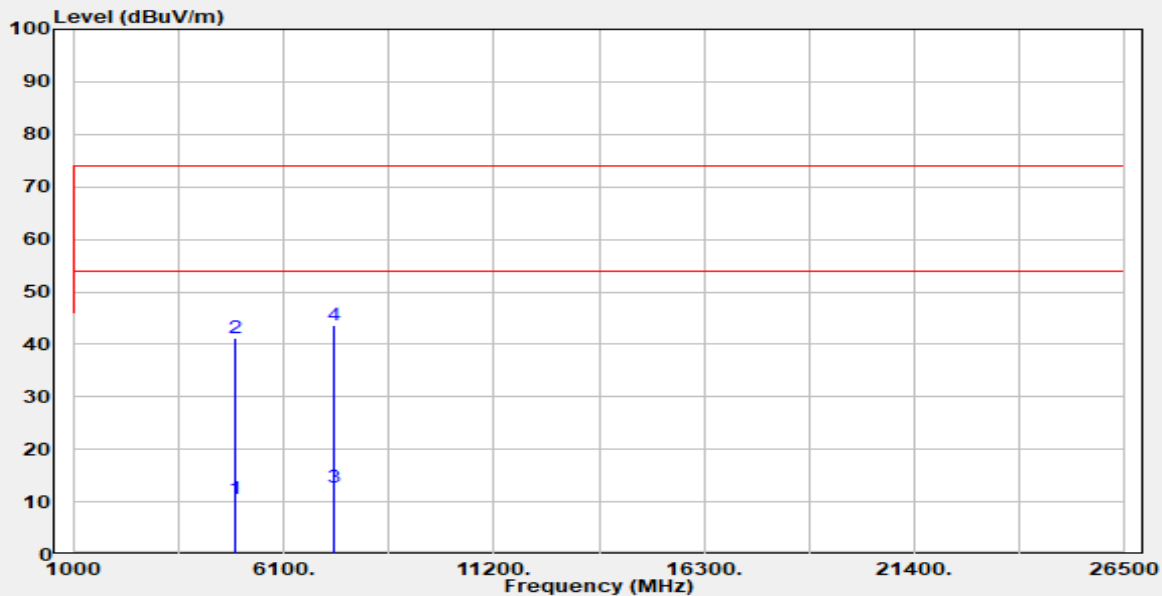
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Report Number :TERF2507002419E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC C
 Test Date :2025-08-08
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Average	-	-	10.56	54.00	-43.44
4882.00	Peak	41.04	0.27	41.31	74.00	-32.69
7323.00	Average	-	-	12.76	54.00	-41.24
7323.00	Peak	36.96	6.55	43.51	74.00	-30.49

Average Duty Cycle Factor=-30.75 (dB)

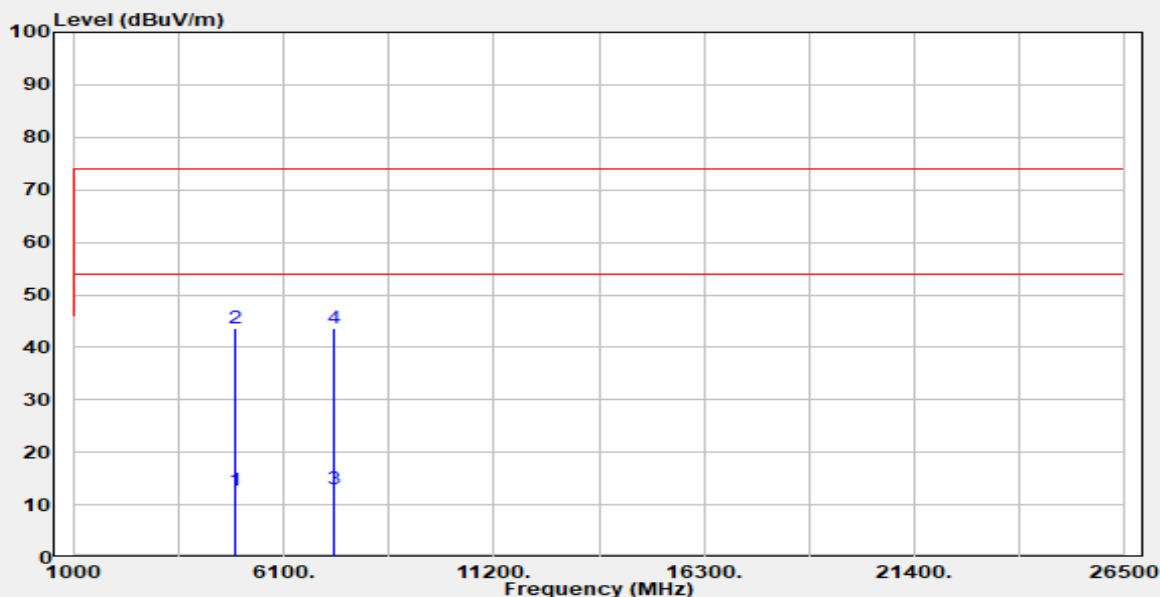
Average Level= Peak Level+ Duty Cycle Factor

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 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Average	-	-	12.78	54.00	-41.22
4882.00	Peak	43.26	0.27	43.53	74.00	-30.47
7323.00	Average	-	-	12.95	54.00	-41.05
7323.00	Peak	37.15	6.55	43.70	74.00	-30.30

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

~ End of Report ~

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