

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyou-shi, Kyoto 617-8555
Japan

Manufacturer: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyou-shi, Kyoto 617-8555
Japan

Product Name: Communication Module

Brand Name: muRata

Model No.: LBEE5XV1YM

Model Difference: N/A

Report Number: TERF2402000375E2

FCC ID VPYLB1YM

IC: 772C-LB1YM

Date of EUT Received: February 20, 2024

Date of Test: February 21, 2024~February 29, 2024

Issue Date: April 1, 2024

Approved By _____

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

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

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2402000375E2	00	Original.	April 1, 2024	Susan Lin	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Communication Module
Brand Name:	muRata
Model No.:	LBEE5XV1YM
Model Difference:	N/A
Hardware Version:	1.0
Firmware Version:	1.0
EUT Series No.:	000038946
Power Supply:	3.3Vdc
Test Software (Name/Version):	DutApMimoBt / 1.0.0.172

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:	$\leq 0.4s$

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Port	Peak Antenna Gain (dBi)
Monopole	Devialet	LBEE5XV1YM	2402~2480	Path B	2.1

Note: Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 15.247 Meas. Guidance v05r02
 RSS-247 issue 3 Aug. 2023
 RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021), Amendment 1 (March 2019)
 ANSI C63.10:2013

1.5 Test Facility

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

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

1.6 Special Accessories

There 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 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.

2.4 Measurement Results Explanation Example

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

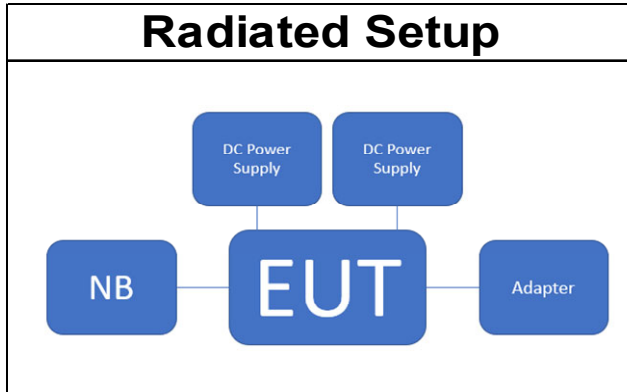
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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2.5 Test Configuration



2.6 Control Unit(s)

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
LAN cable	ELECOM	KB-FL7-03BLN	N/A	N/A	N/A
PCI cable	Samtec	HQCD	N/A	N/A	N/A
USB cable	Qualtek	3025033	N/A	N/A	N/A
Adapter	FSP GROUP INC.	FSP065-REBN2	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Band Edge and Spurious Emission	Compliant

Note

1. This is an addendum test report reference to the test report ER/2020/C0062.

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

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

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	0,78	GFSK/8-DPSK	DH5/3DH5
<p>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.</p>				

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Horn Antenna	Schwarzbeck	BBHA9170	184	12/28/2023	12/27/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Loop Antenna	ETS.LINDGREN	6502	143303	05/23/2023	05/22/2024
3m Site NSA	SGS	966 chamber C	N/A	03/02/2023	03/01/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/11/2023	04/10/2024
DC Power Supply	Gwinstek	SPS-3610	GEW902165	01/17/2024	01/16/2025
DC Power Supply	Gwinstek	SPS-3610	GEV856767	10/02/2023	10/01/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17388/4	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024

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

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

7.1.1 Duty Cycle Correction Factor

According to 15. 35(c) and RSS-Gen §8.2, 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.

7.1.2 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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, 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:

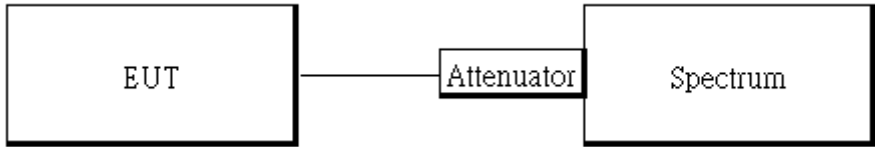
1. The lower limit shall apply at the transition frequencies.

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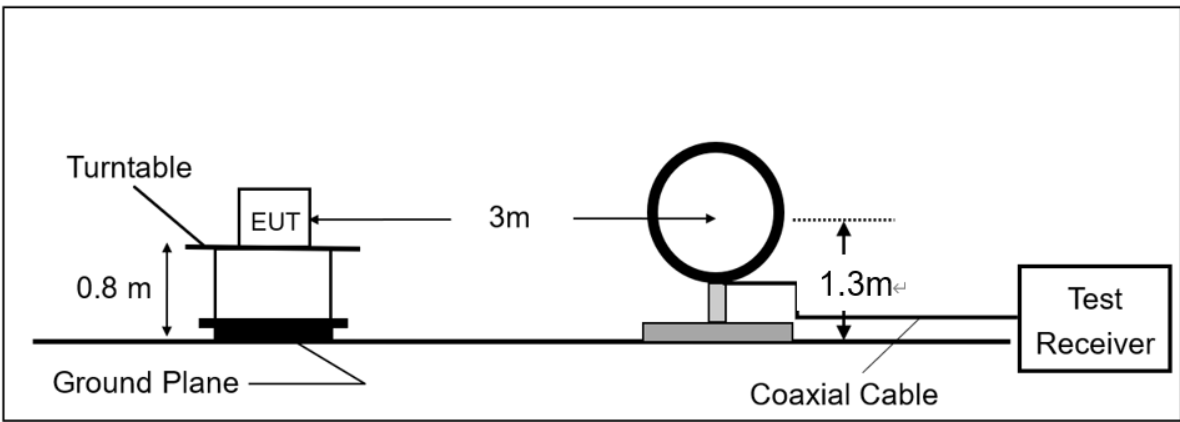
7.2 Test Setup

7.2.1 Duty Cycle Correction Factor

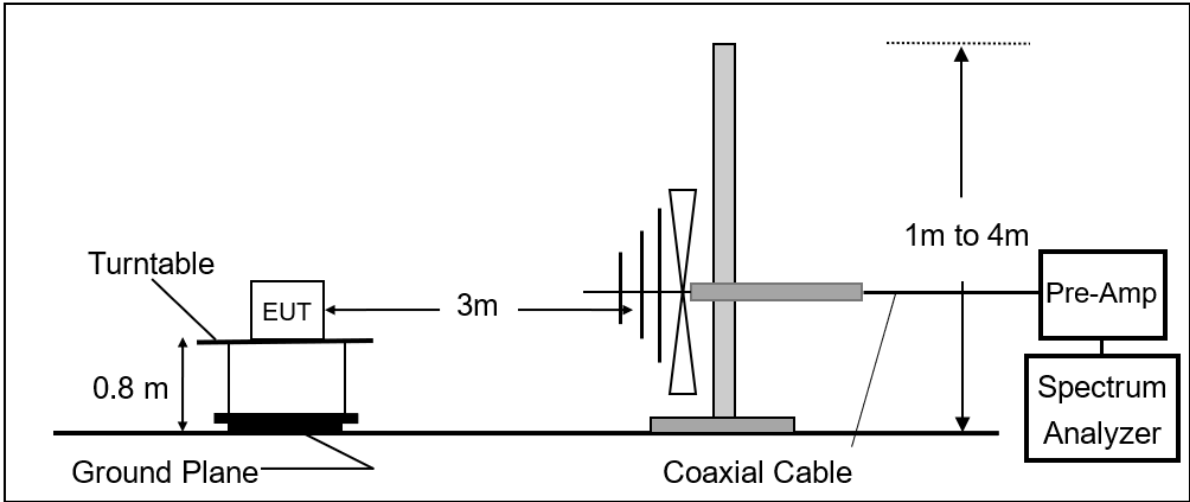


7.2.2 Radiated Emission

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



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

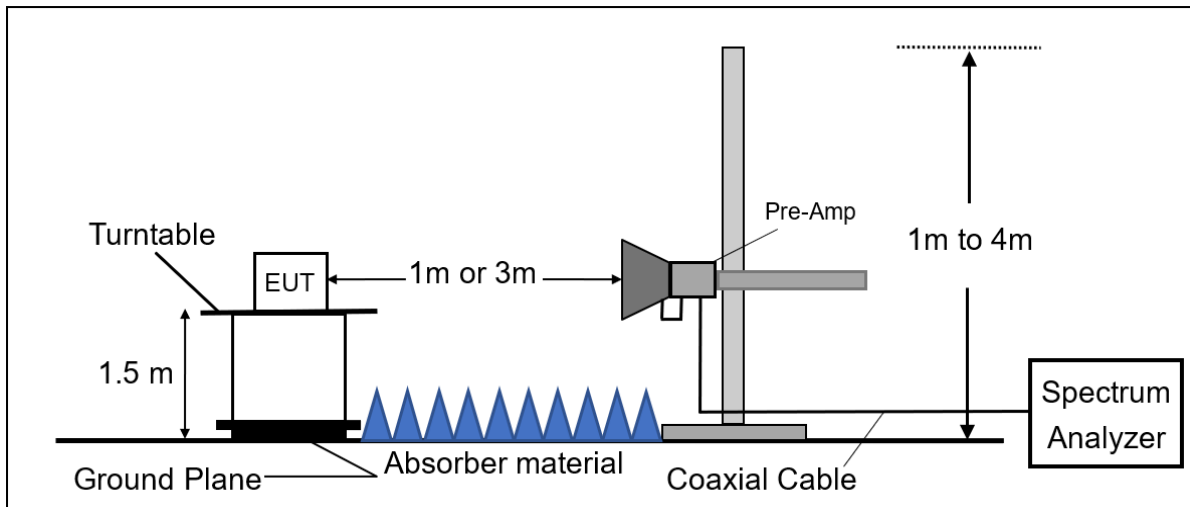


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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



7.3 Measurement Procedure

7.3.1 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 C63.10:2013.
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.

7.3.2 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
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 for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 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.

7.4 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 $20 \cdot \log(uV/m)$

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

Factor(dB) = Antenna Factor(dBμV/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) = $20 \log (T_{on}/100 \text{ ms})$

7.5 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) & RSS-GEN §6.13.2 was not reported.

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7.6 Measurement Result:

7.6.1 Duty Cycle Correction Factor

Bluetooth 1M

Time ON of 100ms: 8.700 ms

Duty Cycle=8.7ms / 100ms= 0.087

Duty Cycle correction factor=20 LOG 0.087 = -21.21 dB

Bluetooth 3M

Time ON of 100ms: 8.700 ms

Duty Cycle=8.7ms / 100ms= 0.087

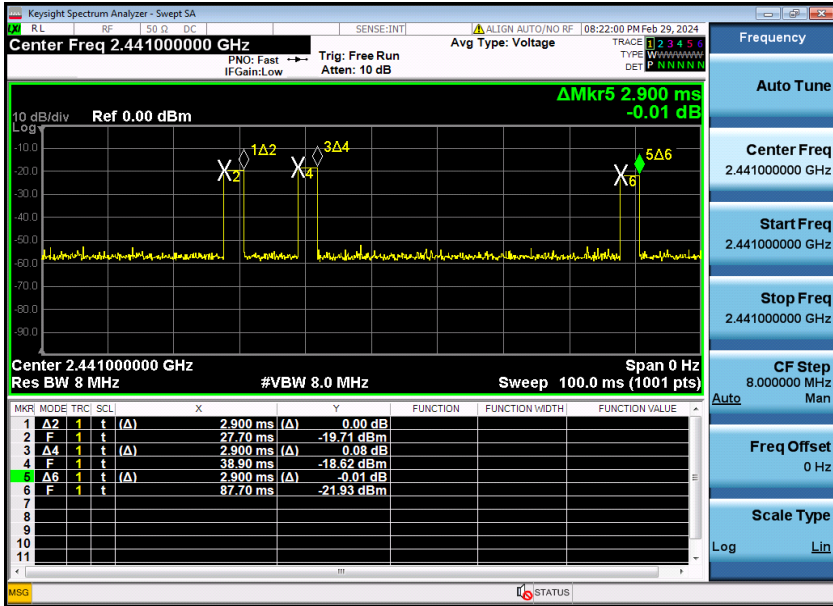
Duty Cycle correction factor=20 LOG 0.087 = -21.21 dB

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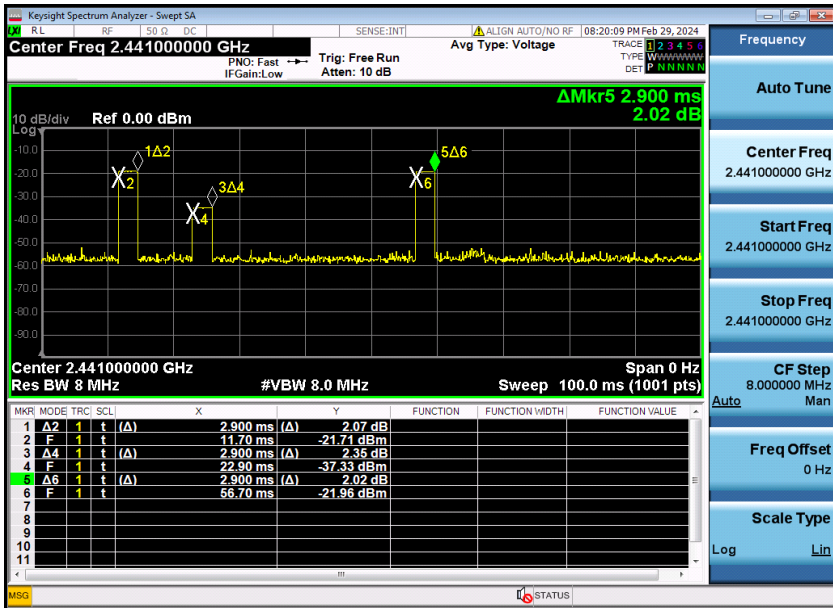
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7.6.2 Duty Cycle test plot

BR



EDR



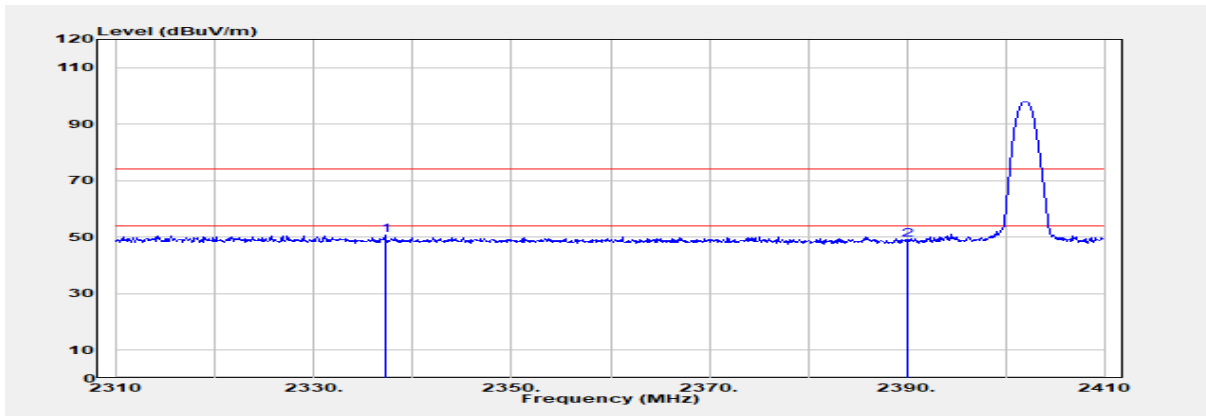
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7.6.3 Bandedge Result

Report Number	:TERF2402000375E2	Test Site	:SAC C
Operation Mode	:BR	Test Date	:2024-02-29
Test Frequency	:2402 MHz	Temp./Humi.	:21.0°C/57%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



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
--------------	------------------------------	---	--------------	------------------------------	------------------------------	--------------

2337.200	Peak	54.66	-3.85	50.81	74.00	-23.19
2390.000	Peak	53.39	-4.25	49.14	74.00	-24.86

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
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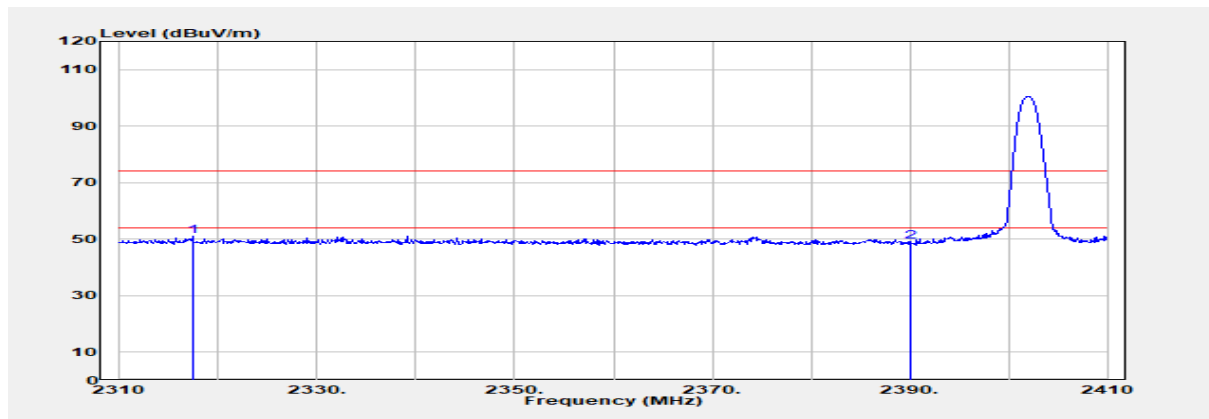
2337.200	Average	50.81	-21.21	29.60	54.00	-24.40
2390.000	Average	49.14	-21.21	27.93	54.00	-26.07

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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2317.400	Peak	54.71	-3.73	50.98	74.00	-23.02
2390.000	Peak	53.23	-4.25	48.99	74.00	-25.01

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2317.400	Average	50.98	-21.21	29.77	54.00	-24.23
2390.000	Average	48.99	-21.21	27.78	54.00	-26.22

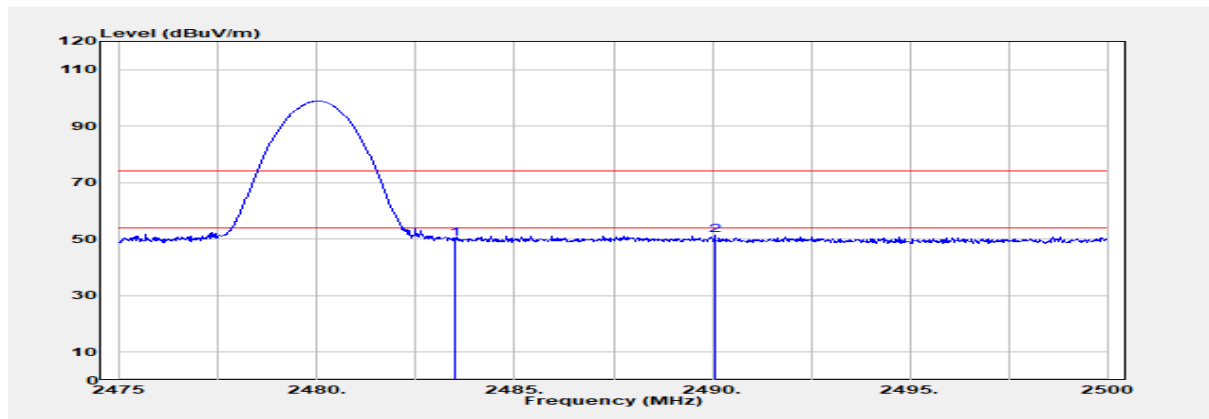
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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.500	Peak	53.78	-3.82	49.96	74.00	-24.04
2490.050	Peak	55.03	-3.75	51.28	74.00	-22.72

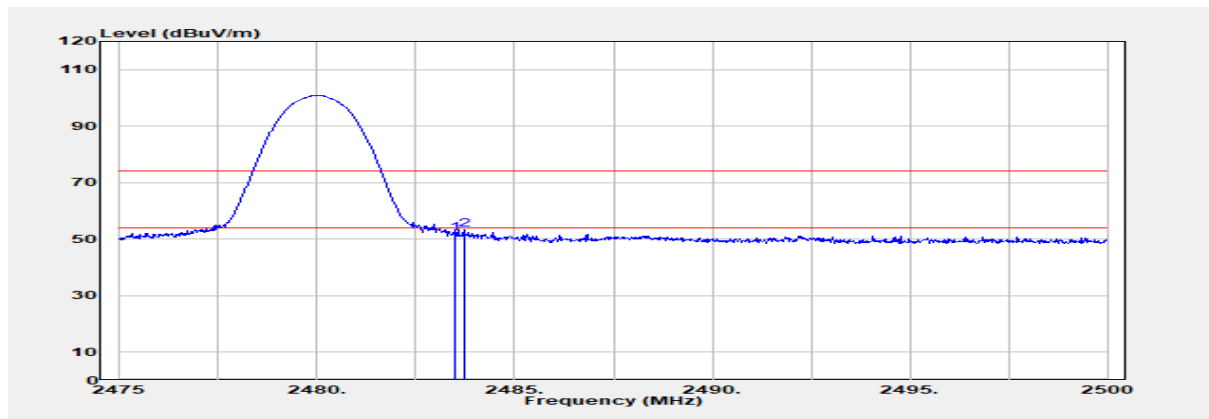
Freq. MHz	Detector Mode AV	Peak Actual FS (dBUV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2483.500	Average	49.96	-21.21	28.75	54.00	-25.25
2490.050	Average	51.28	-21.21	30.07	54.00	-23.93

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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



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
2483.500	Peak	55.79	-3.82	51.97	74.00	-22.03
2483.725	Peak	57.09	-3.82	53.27	74.00	-20.73
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	51.97	-21.21	30.76	54.00	-23.24
2483.725	Average	53.27	-21.21	32.06	54.00	-21.94

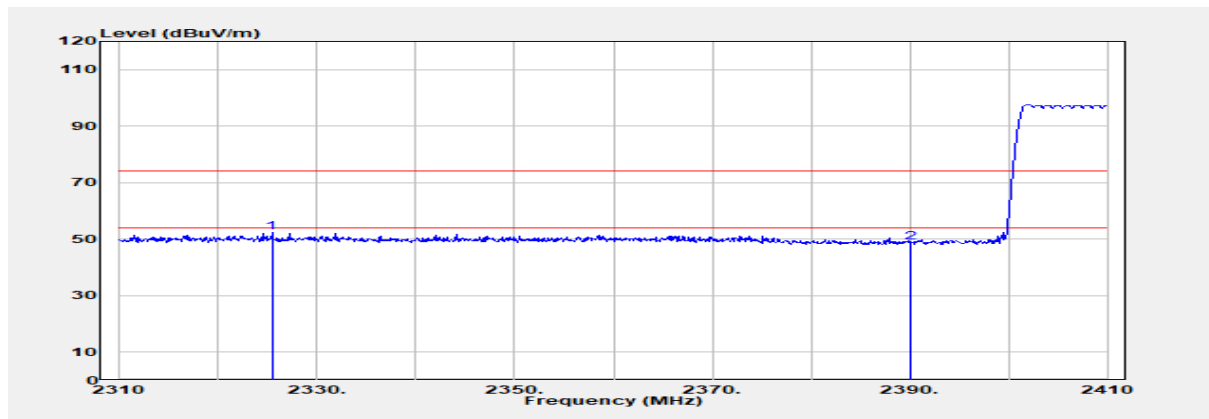
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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2325.400	Peak	56.24	-3.78	52.46	74.00	-21.54
2390.000	Peak	52.89	-4.25	48.64	74.00	-25.36
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2325.400	Average	52.46	-21.21	31.25	54.00	-22.75
2390.000	Average	48.64	-21.21	27.43	54.00	-26.57

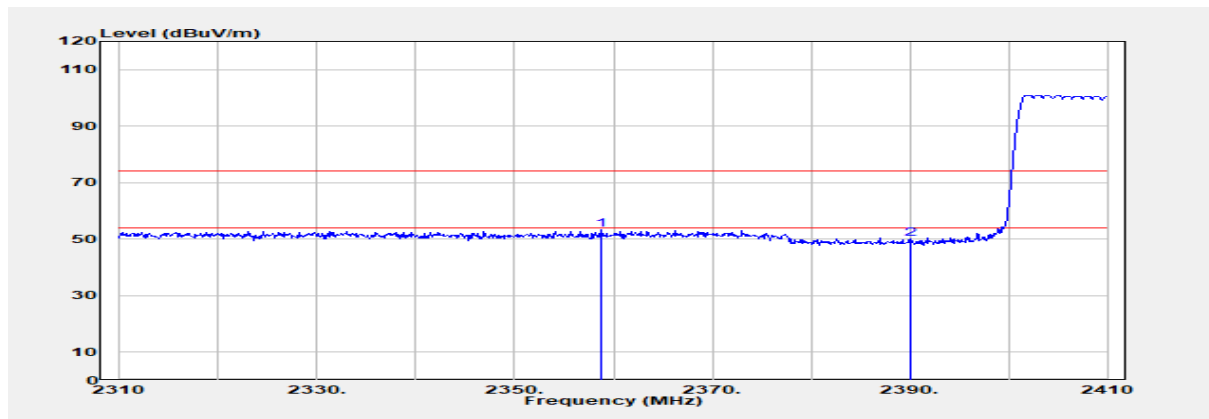
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 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



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
2358.700	Peak	57.19	-3.99	53.20	74.00	-20.80
2390.000	Peak	54.41	-4.25	50.16	74.00	-23.84

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2358.700	Average	53.20	-21.21	31.99	54.00	-22.01
2390.000	Average	50.16	-21.21	28.95	54.00	-25.05

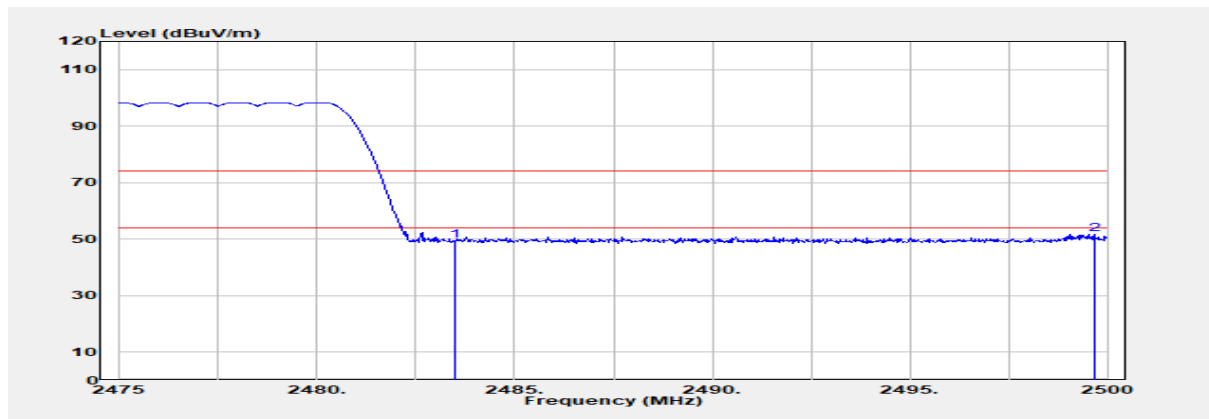
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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



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
2483.500	Peak	53.41	-3.82	49.59	74.00	-24.41
2499.675	Peak	55.51	-3.65	51.85	74.00	-22.15
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.59	-21.21	28.38	54.00	-25.62
2499.675	Average	51.85	-21.21	30.64	54.00	-23.36

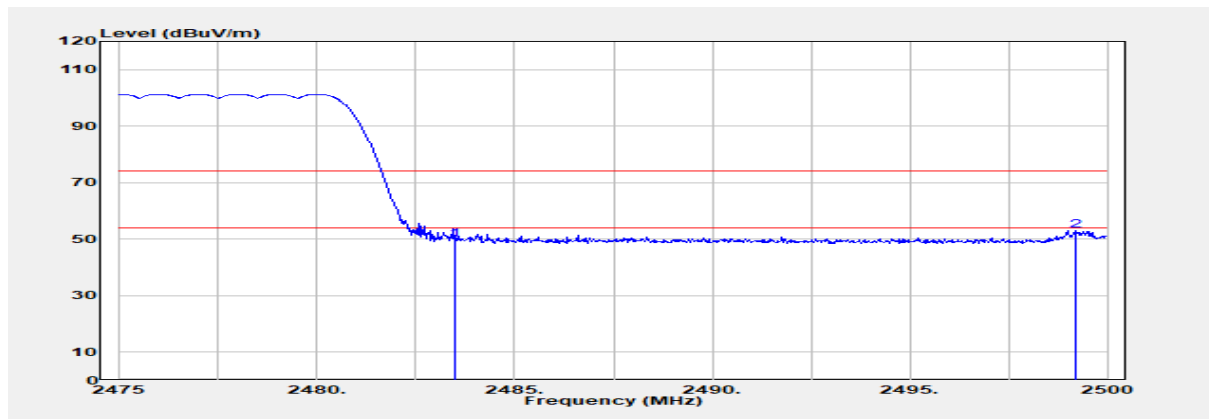
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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



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
2483.500	Peak	53.47	-3.82	49.65	74.00	-24.35
2499.225	Peak	56.81	-3.66	53.15	74.00	-20.85
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.65	-21.21	28.44	54.00	-25.56
2499.225	Average	53.15	-21.21	31.94	54.00	-22.06

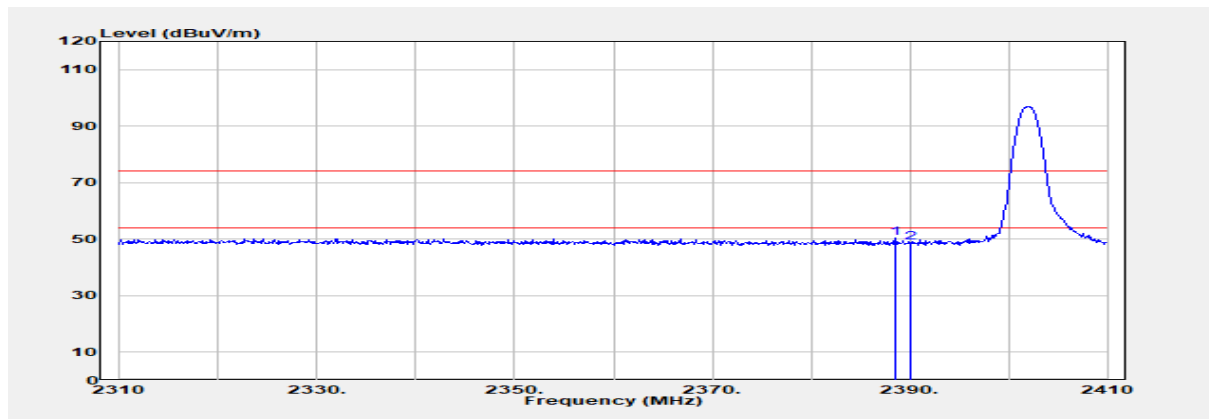
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.600	Peak	54.49	-4.24	50.25	74.00	-23.75
2390.000	Peak	53.17	-4.25	48.92	74.00	-25.08

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2388.600	Average	50.25	-21.21	29.04	54.00	-24.96
2390.000	Average	48.92	-21.21	27.71	54.00	-26.29

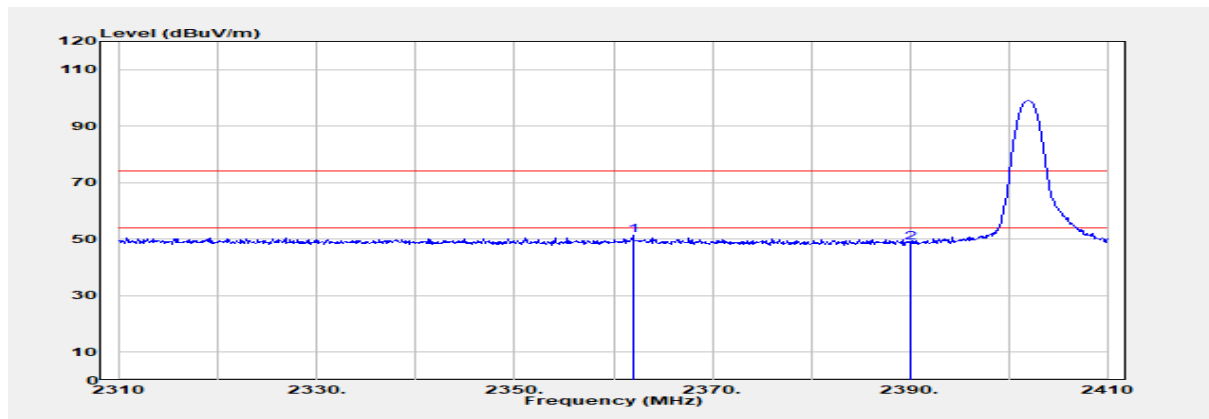
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2362.000	Peak	55.25	-4.02	51.23	74.00	-22.77
2390.000	Peak	53.14	-4.25	48.89	74.00	-25.11

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2362.000	Average	51.23	-21.21	30.02	54.00	-23.98
2390.000	Average	48.89	-21.21	27.68	54.00	-26.32

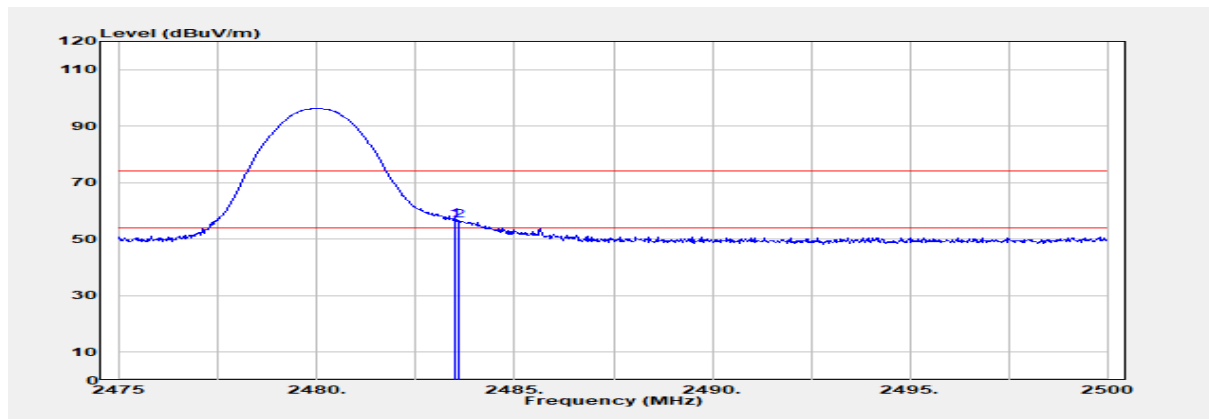
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.500	Peak	60.79	-3.82	56.97	74.00	-17.03
2483.600	Peak	60.36	-3.82	56.54	74.00	-17.46

Freq. MHz	Detector Mode AV	Peak Actual FS (dBUV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2483.500	Average	56.97	-21.21	35.76	54.00	-18.24
2483.600	Average	56.54	-21.21	35.33	54.00	-18.67

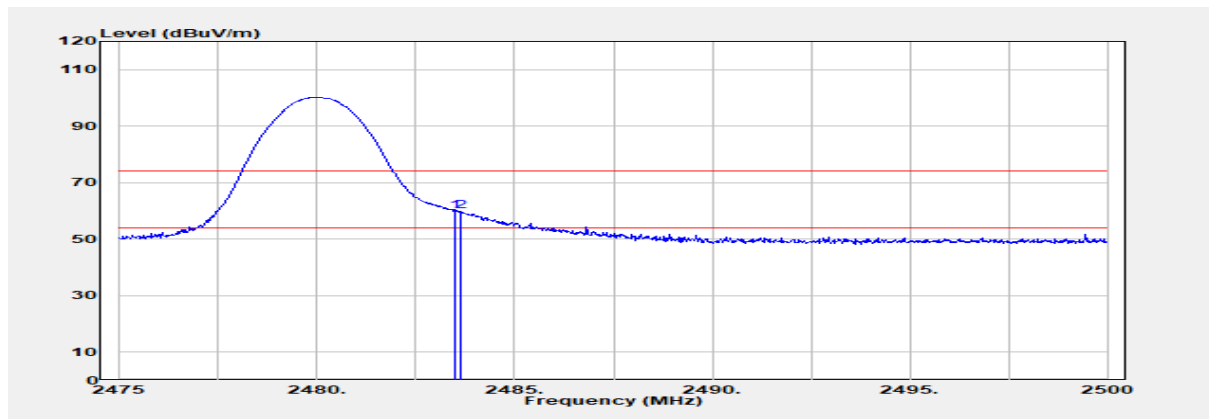
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



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
2483.500	Peak	63.66	-3.82	59.84	74.00	-14.16
2483.625	Peak	63.57	-3.82	59.75	74.00	-14.25
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	59.84	-21.21	38.63	54.00	-15.37
2483.625	Average	59.75	-21.21	38.54	54.00	-15.46

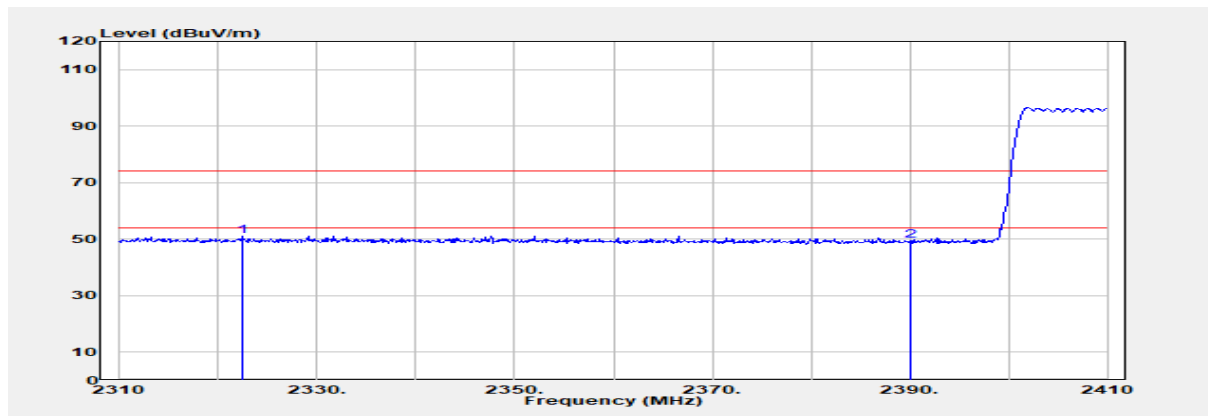
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2322.400	Peak	54.97	-3.76	51.21	74.00	-22.79
2390.000	Peak	53.74	-4.25	49.50	74.00	-24.50
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2322.400	Average	51.21	-21.21	30.00	54.00	-24.00
2390.000	Average	49.50	-21.21	28.29	54.00	-25.71

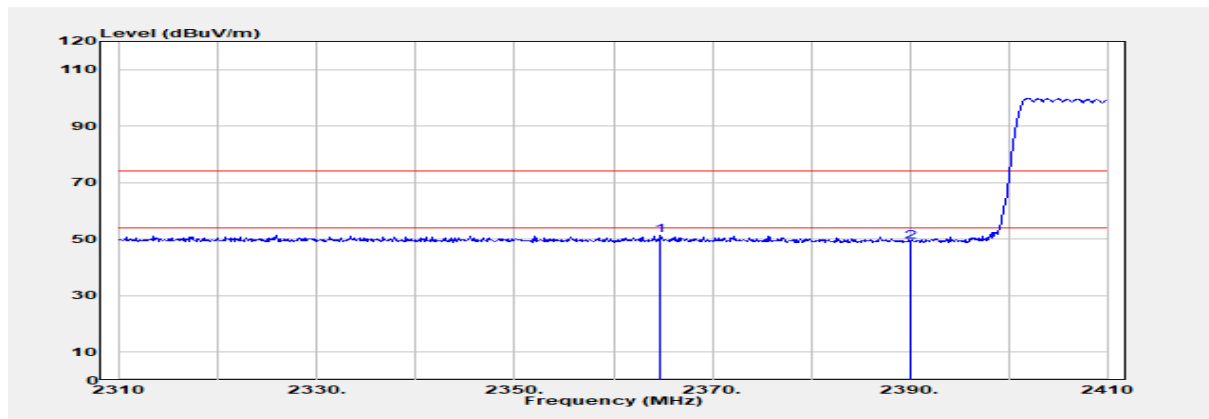
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2364.800	Peak	55.31	-4.04	51.27	74.00	-22.73
2390.000	Peak	53.35	-4.25	49.10	74.00	-24.90
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2364.800	Average	51.27	-21.21	30.06	54.00	-23.94
2390.000	Average	49.10	-21.21	27.89	54.00	-26.11

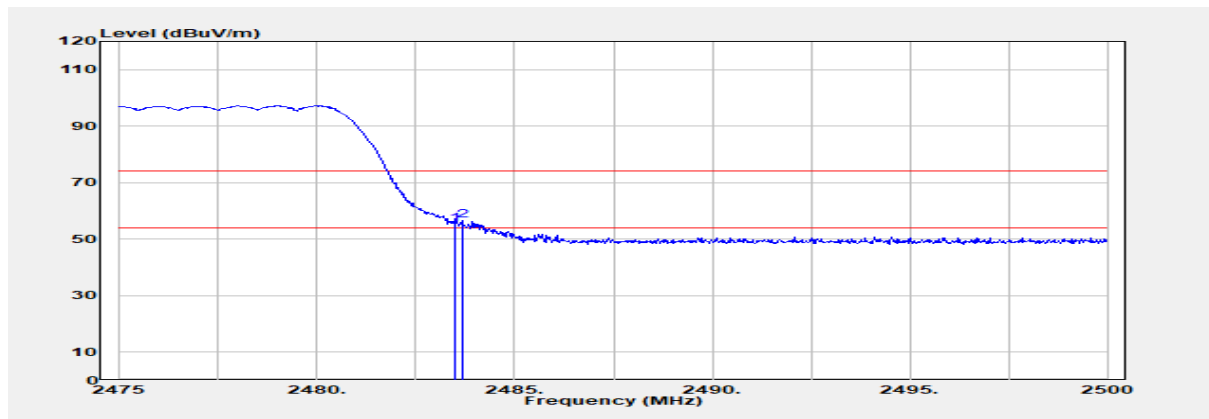
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



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
2483.500	Peak	59.03	-3.82	55.21	74.00	-18.79
2483.675	Peak	60.52	-3.82	56.70	74.00	-17.30

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	55.21	-21.21	34.00	54.00	-20.00
2483.675	Average	56.70	-21.21	35.49	54.00	-18.51

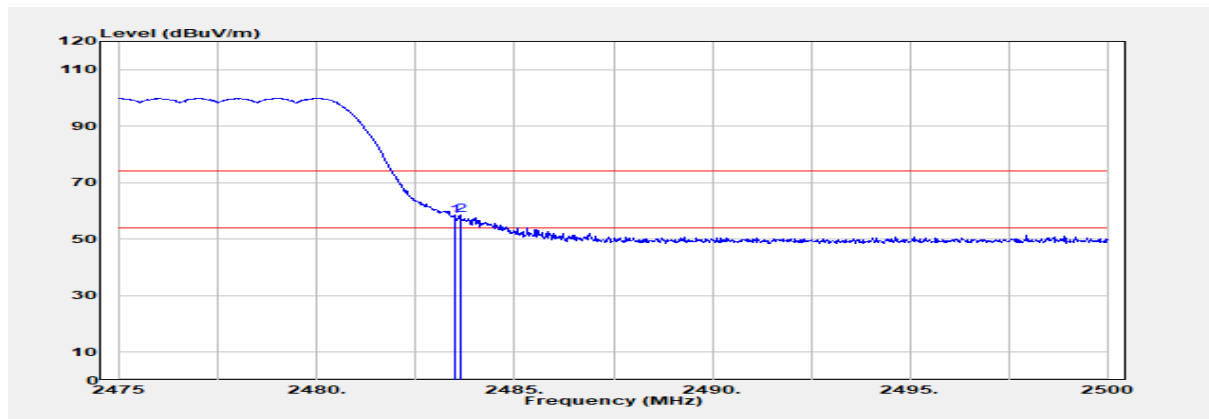
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge Hopping
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Peak	61.92	-3.82	58.10	74.00	-15.90
2483.625	Peak	62.23	-3.82	58.41	74.00	-15.59

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	58.10	-21.21	36.89	54.00	-17.11
2483.625	Average	58.41	-21.21	37.20	54.00	-16.80

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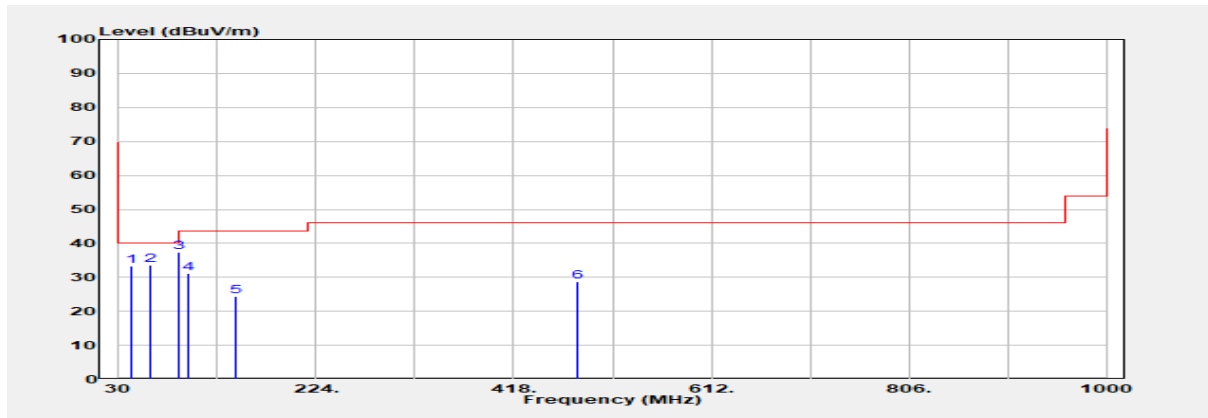
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7.6.4 Radiated Spurious Emission

Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



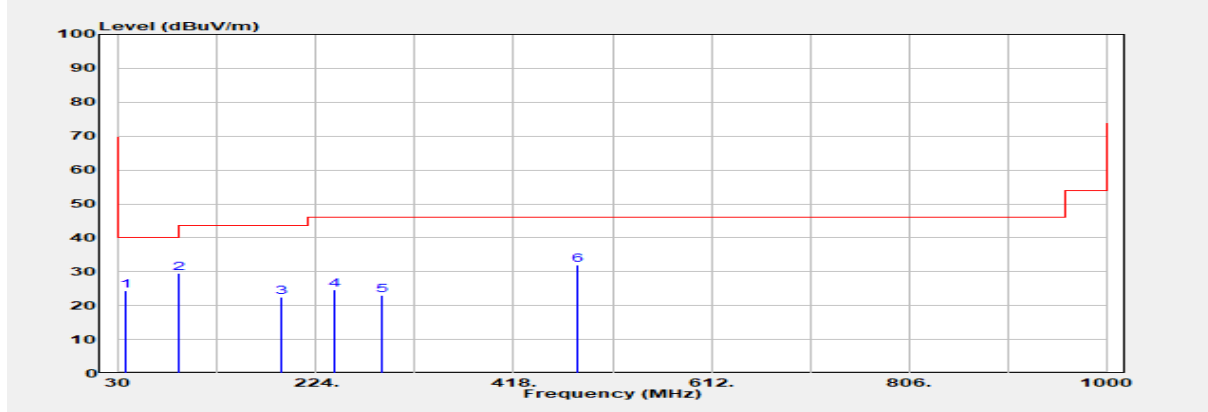
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
41.640	Peak	49.75	-16.46	33.29	40.00	-6.71
61.040	Peak	50.59	-16.92	33.67	40.00	-6.33
89.170	Peak	59.12	-21.72	37.40	43.50	-6.10
97.900	Peak	52.27	-21.03	31.24	43.50	-12.26
145.430	Peak	40.54	-16.02	24.52	43.50	-18.98
480.080	Peak	38.43	-9.72	28.71	46.00	-17.29

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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



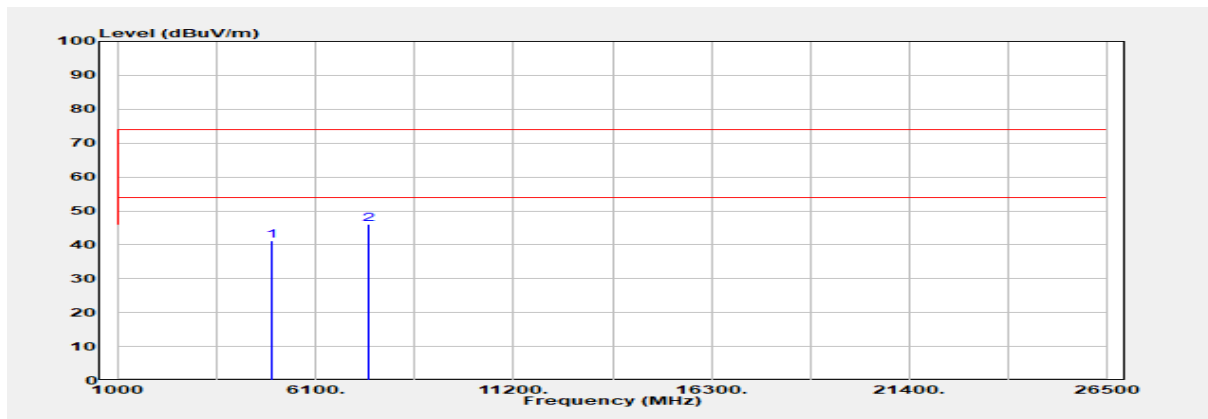
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.790	Peak	41.58	-17.19	24.40	40.00	-15.60
89.170	Peak	51.38	-21.72	29.66	43.50	-13.84
190.050	Peak	40.99	-18.37	22.63	43.50	-20.87
242.430	Peak	41.67	-16.98	24.69	46.00	-21.31
288.020	Peak	38.24	-15.18	23.06	46.00	-22.94
480.080	Peak	41.71	-9.72	31.99	46.00	-14.01

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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Peak	40.61	0.70	41.31	74.00	-32.69
7440.000	Peak	39.55	6.52	46.07	74.00	-27.93
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	41.31	-21.21	20.10	54.00	-33.90
7440.000	Average	46.07	-21.21	24.86	54.00	-29.14

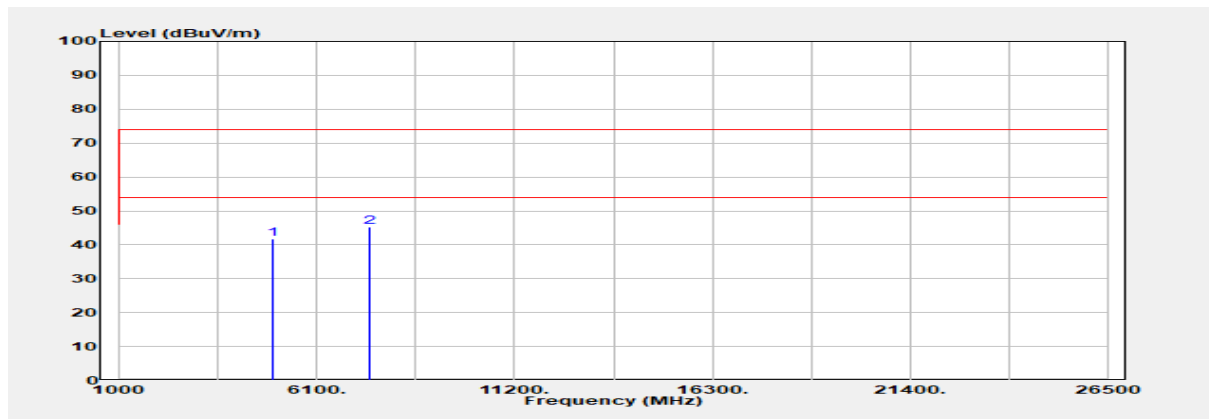
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Report Number :TERF2402000375E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4960.000	Peak	41.08	0.70	41.78	74.00	-32.22
7440.000	Peak	38.71	6.52	45.23	74.00	-28.77

Freq. MHz	Detector Mode AV	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	41.78	-21.21	20.57	54.00	-33.43
7440.000	Average	45.23	-21.21	24.02	54.00	-29.98

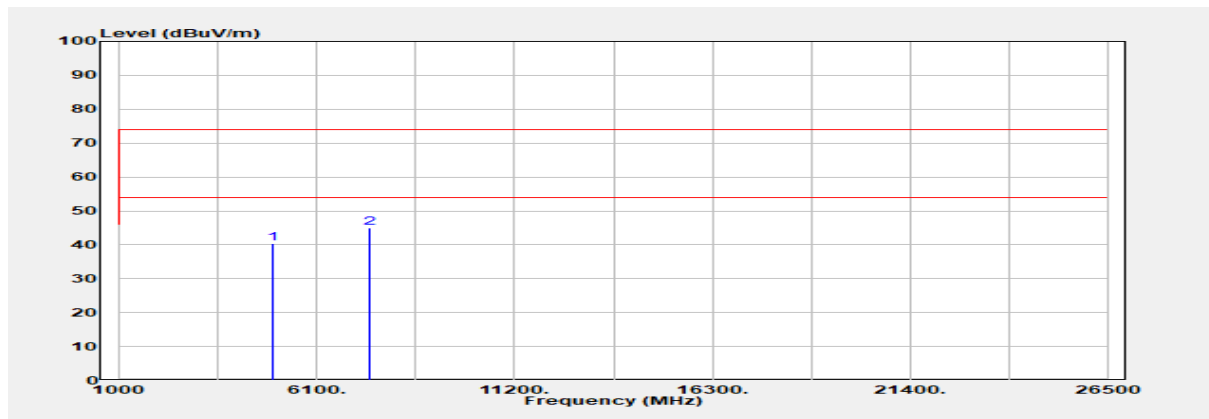
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Peak	39.76	0.70	40.46	74.00	-33.54
7440.000	Peak	38.60	6.52	45.12	74.00	-28.88
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	40.46	-21.21	19.25	54.00	-34.75
7440.000	Average	45.12	-21.21	23.91	54.00	-30.09

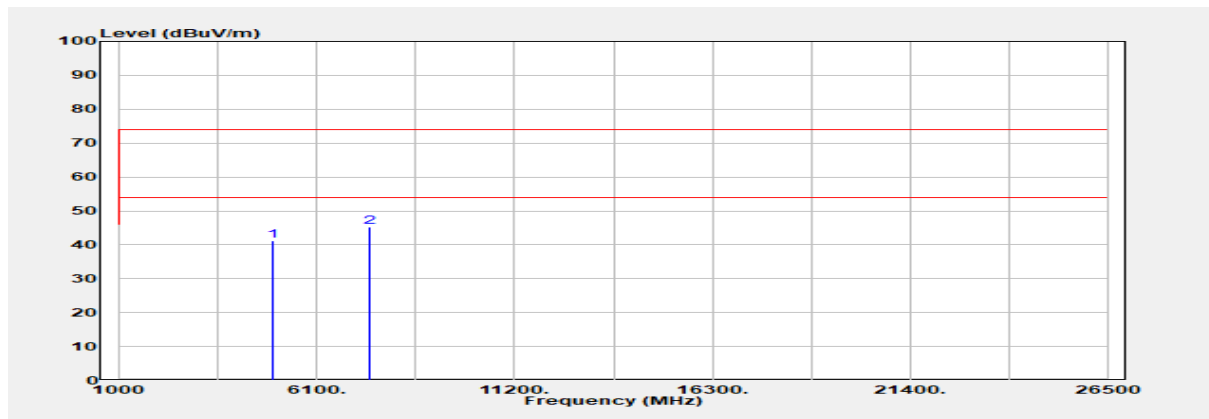
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Report Number :TERF2402000375E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2024-02-29
 Temp./Humi. :21.0°C/57%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4960.000	Peak	40.50	0.70	41.19	74.00	-32.81
7440.000	Peak	38.68	6.52	45.20	74.00	-28.80
Freq. MHz	Detector Mode AV	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	41.19	-21.21	19.98	54.00	-34.02
7440.000	Average	45.20	-21.21	23.99	54.00	-30.01

~ End of Report ~

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