

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description	Wireless module installed in 5008X Monitor with CDX without remote control
Applicant:	Fresenius Medical Care AG Hafenstr. 9, 97424 Schweinfurt, Germany
Manufacturer:	Fresenius Medical Care Deutschland GmbH Hafenstr. 9, 97424 Schweinfurt, Germany
Brand Name:	Bointec
Model No.:	DGF109A, DGF104A
Model Difference:	Marketing Different
FCC Host Model:	F50015749
Report Number:	TERF2504001298ER
FCC ID	2BK5J-DGF109FME
Date of EUT Received:	April 08, 2025
Date of Test:	April 09, 2025~May 05, 2025
Issue Date:	June 2, 2025

Blue Yang
Approved By _____

Blue Yang

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2504001298ER	00	Class II permissive change	May 20, 2025	Karen Huang	
TERF2504001298ER	01	Update section 2.5 and 2.6	June 2, 2025	Karen Huang	*

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 5008X Monitor with CDX without remote control
Brand Name:	Bointec
Model No.:	DGF109A, DGF104A
Model Difference:	Marketing Different
FCC Host Model:	F50015749
Integrated BT/WLAN Module	Brand Name: Bointec Model Name: DGF109A , DGF104A
Hardware Version:	4YEA0276 and 4YEA0277
Firmware Version:	4.80.29
EUT Series No.:	4VTQ0389
Power Supply:	120Vdc
Test Software (Name/Version)	QRCT v3.0.250.0

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

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
Dipole	INVAX /Cortec	NB1363-B310BX	2.4GHz	3.62

Note:

1. Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

ANSI C63.10:2013

1.5 Test Facility

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

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 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 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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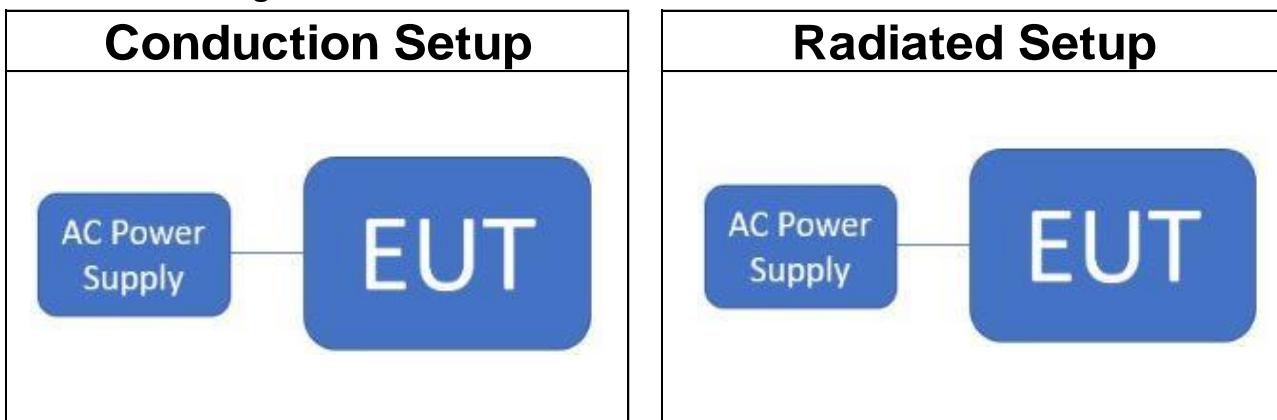
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Power Supply	TDK Corporation	F40010329	N/A	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Power Supply	TDK Corporation	F40010329	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(d) §15.209	Radiated Band Edge and Spurious Emission	Compliant

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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	8-DPSK	3DH5
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
	+/-	4.1	dB
	+/-	3.37	dB
	+/-	3.83	dB
Polarization: Horizontal	+/-	1.89	dB
	+/-	4.1	dB
	+/-	3.37	dB
	+/-	3.83	dB
Radiated Spurious Emission	+/-	2	dB
	+/-	1.59	dB
	+/-	1.71	dB
	+/-	1.64	dB
	+/-	3.84	dB

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2024	06/21/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

6.2 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	EWT	EWT-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 +SUCAFLEX 104PEA +EMC107-SM-SM-1500 +SUCAFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCAFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/05/2025	02/04/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

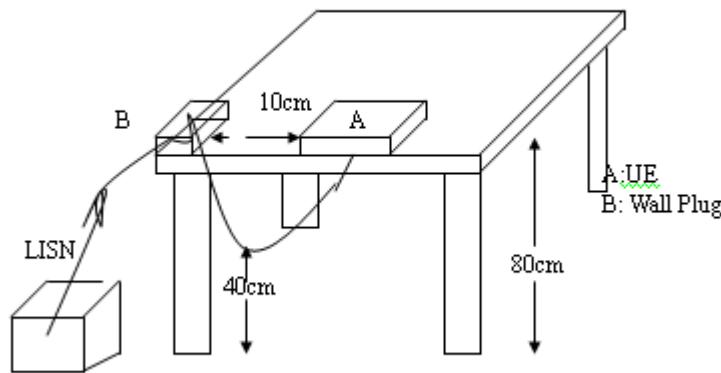
Note

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

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

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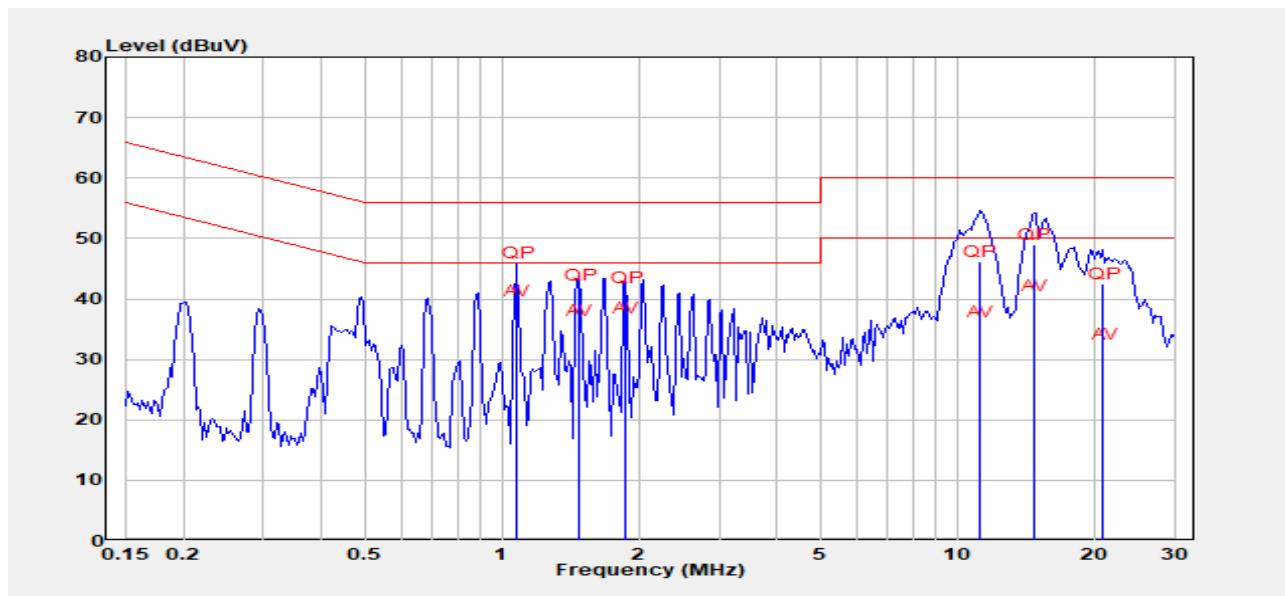
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2504001298ER
Operation Mode :BT
Power :120V/60Hz
Probe :L
Note: :

Test Site :Conduction 1
Test Date :2025-04-28
Temp./Humi. :23.5°C/66%
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
1.077	Average	29.57	10.20	39.77	46.00	-6.23
1.077	QP	35.78	10.20	45.98	56.00	-10.02
1.480	Average	26.31	10.19	36.50	46.00	-9.50
1.480	QP	31.99	10.19	42.18	56.00	-13.82
1.868	Average	26.57	10.19	36.76	46.00	-9.24
1.868	QP	31.68	10.19	41.87	56.00	-14.13
11.198	Average	25.77	10.40	36.17	50.00	-13.83
11.198	QP	35.81	10.40	46.21	60.00	-13.79
14.750	Average	29.97	10.46	40.43	50.00	-9.57
14.750	QP	38.47	10.46	48.93	60.00	-11.07
20.924	Average	22.07	10.53	32.60	50.00	-17.40
20.924	QP	31.88	10.53	42.41	60.00	-17.59

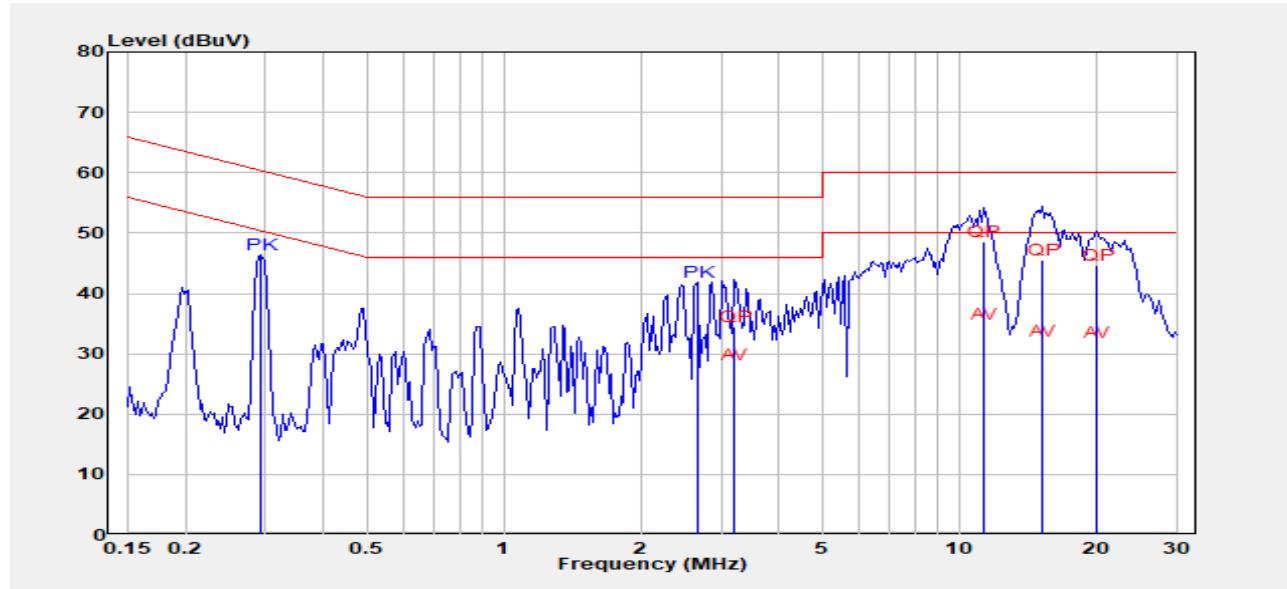
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Report Number :TERF2504001298ER
Operation Mode :BT
Power :120V/60Hz
Probe :N
Note: :

Test Site :Conduction 1
Test Date :2025-04-28
Temp./Humi. :23.5°C/66%
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.292	Peak	36.21	10.14	46.35	60.46	-14.11
2.678	Peak	31.62	10.24	41.86	56.00	-14.14
3.207	Average	17.83	10.27	28.10	46.00	-17.90
3.207	QP	24.19	10.27	34.46	56.00	-21.54
11.317	Average	24.42	10.43	34.85	50.00	-15.15
11.317	QP	38.07	10.43	48.50	60.00	-11.50
15.226	Average	21.47	10.52	31.99	50.00	-18.01
15.226	QP	35.07	10.52	45.59	60.00	-14.41
20.056	Average	21.18	10.59	31.77	50.00	-18.23
20.056	QP	34.16	10.59	44.75	60.00	-15.25

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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 and 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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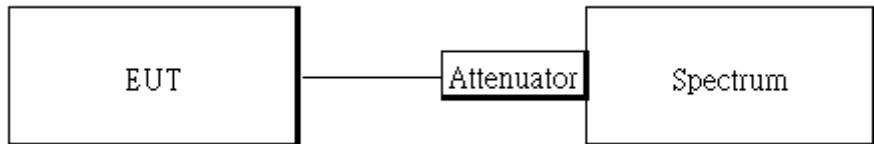
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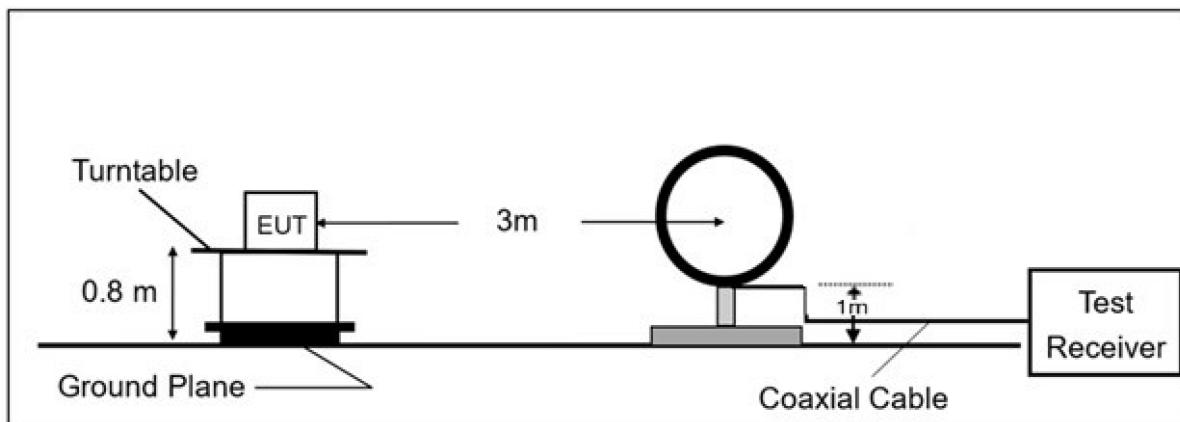
8.2 Test Setup

8.2.1 Duty Cycle Correction Factor

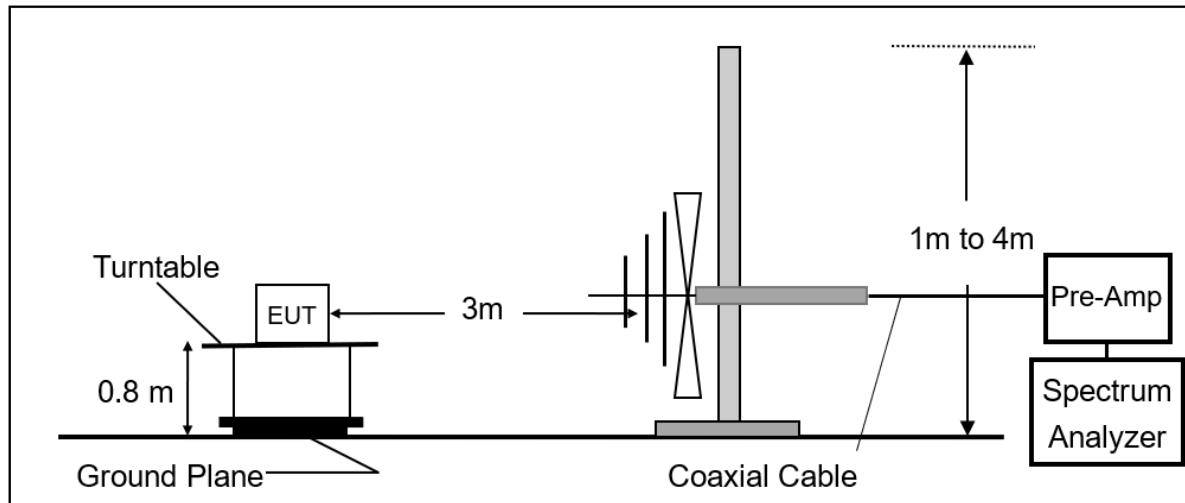


8.2.2 Radiated Emission

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



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



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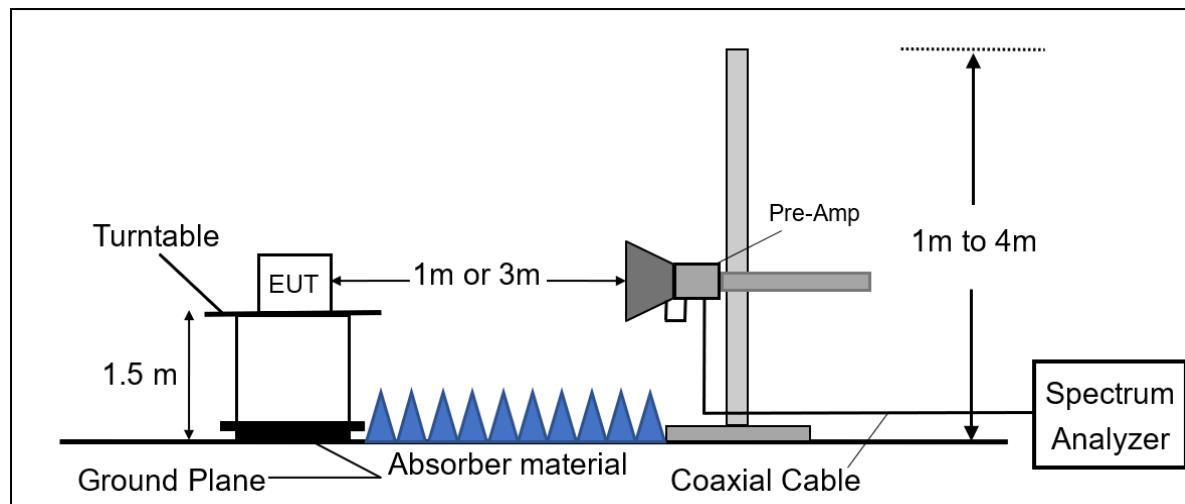
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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



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 C63.10:2013.
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.

8.3.2 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.

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 $dB\mu V/m$, which converts $20 * \log(uV/m)$

Actual $FS(dB\mu V/m)$ = SPA. Reading level($dB\mu V$) + Factor(dB)

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

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

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

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

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

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8.6 Measurement Result:

8.6.1 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

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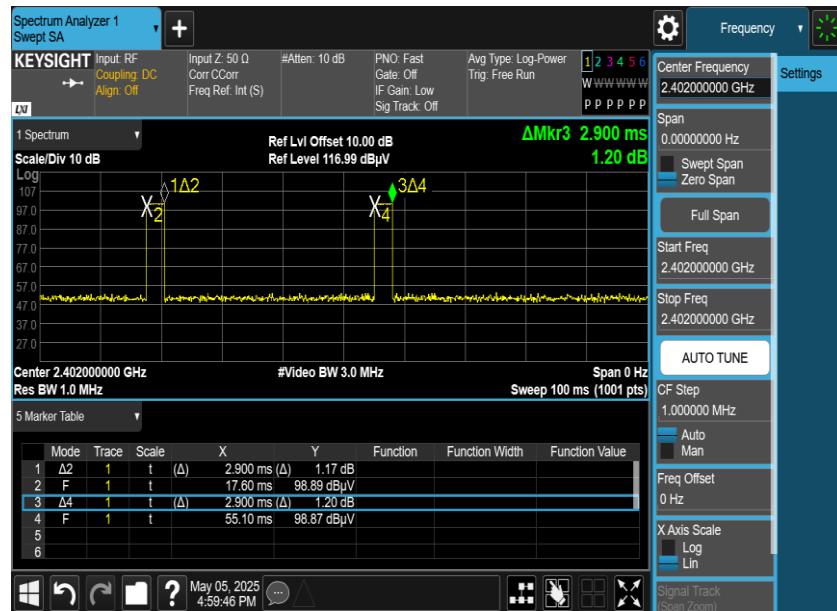
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8.6.2 Duty Cycle test plot

BR



EDR



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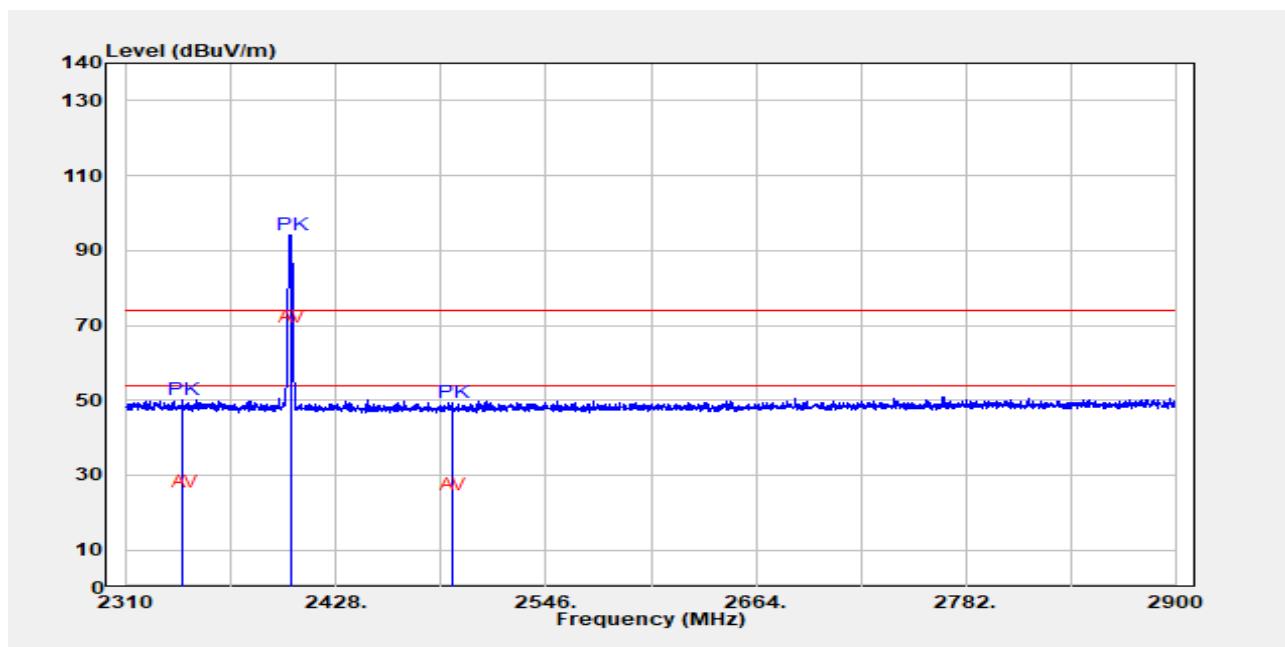
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8.6.3 Bandedge Result

Report Number	:TERF2504001298ER	Test Site	:SAC 3
Operation Mode	:BR	Test Date	:2025-05-05
Test Frequency	:2402 MHz	Temp./Humi.	:23.2°C/62%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Nick Lin



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
2341.48	Peak	54.24	-4.20	50.04	74.00	-23.96
2341.48	Average	-	-	25.31	54.00	-28.69
2402.00	Peak	98.79	-4.54	94.25	-	-
2402.00	Average	-	-	69.52	-	-
2493.16	Peak	54.07	-4.70	49.37	74.00	-24.63
2493.16	Average	-	-	24.64	54.00	-29.36

Average Duty Cycle Factor=-24.73 (dB)

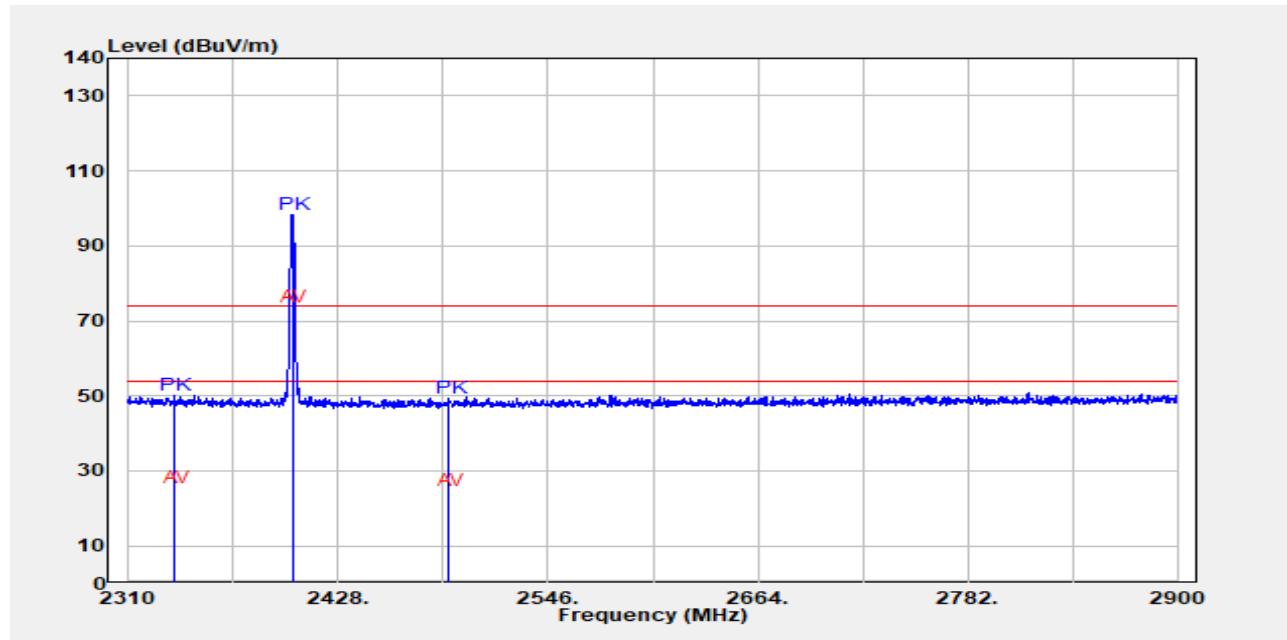
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2504001298ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane
 Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



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
2335.97	Peak	54.33	-4.17	50.16	74.00	-23.84
2335.97	Average	-	-	25.43	54.00	-28.57
2402.00	Peak	102.94	-4.54	98.40	-	-
2402.00	Average	-	-	73.67	-	-
2490.40	Peak	54.16	-4.70	49.46	74.00	-24.54
2490.40	Average	-	-	24.73	54.00	-29.27

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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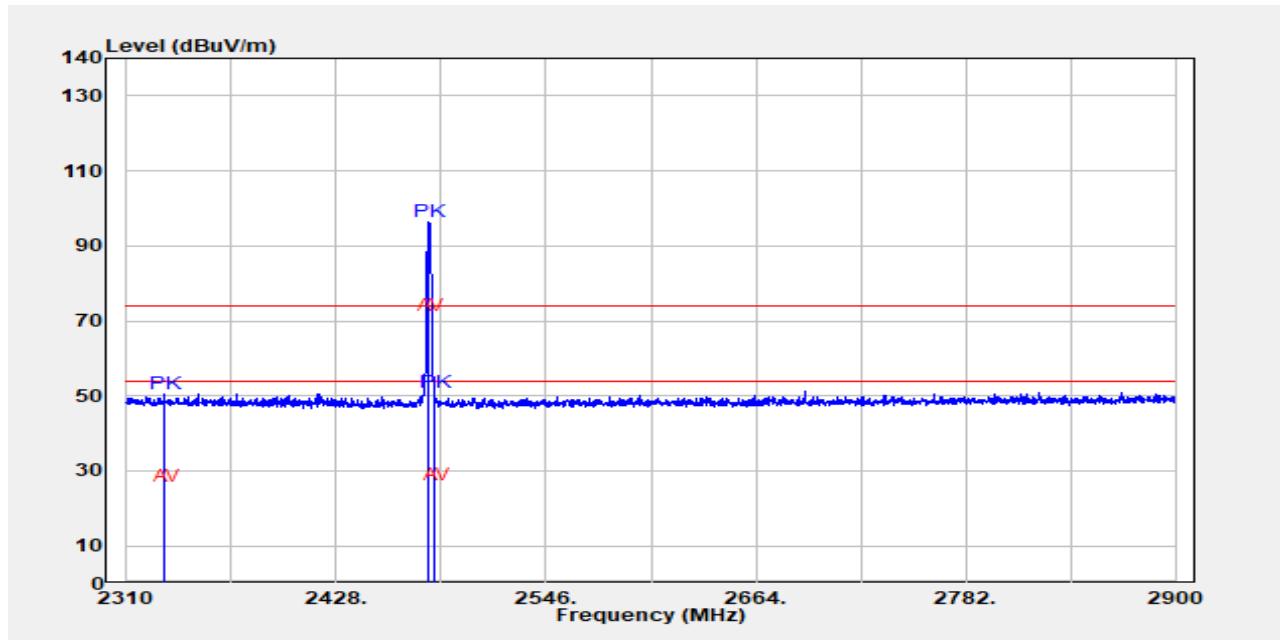
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Report Number :TERF2504001298ER Test Site :SAC 3
 Operation Mode :BR Test Date :2025-05-05
 Test Frequency :2480 MHz Temp./Humi. :23.2°C/62%
 Test Mode :Bandedge Antenna Pol. :Vertical
 EUT Pol :H Plane Engineer :Nick Lin



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
2331.44	Peak	54.77	-4.14	50.63	74.00	-23.37
2331.44	Average	-	-	25.90	54.00	-28.10
2480.00	Peak	100.92	-4.71	96.21	-	-
2480.00	Average	-	-	71.48	-	-
2483.52	Peak	55.64	-4.70	50.94	74.00	-23.06
2483.52	Average	-	-	26.21	54.00	-27.79

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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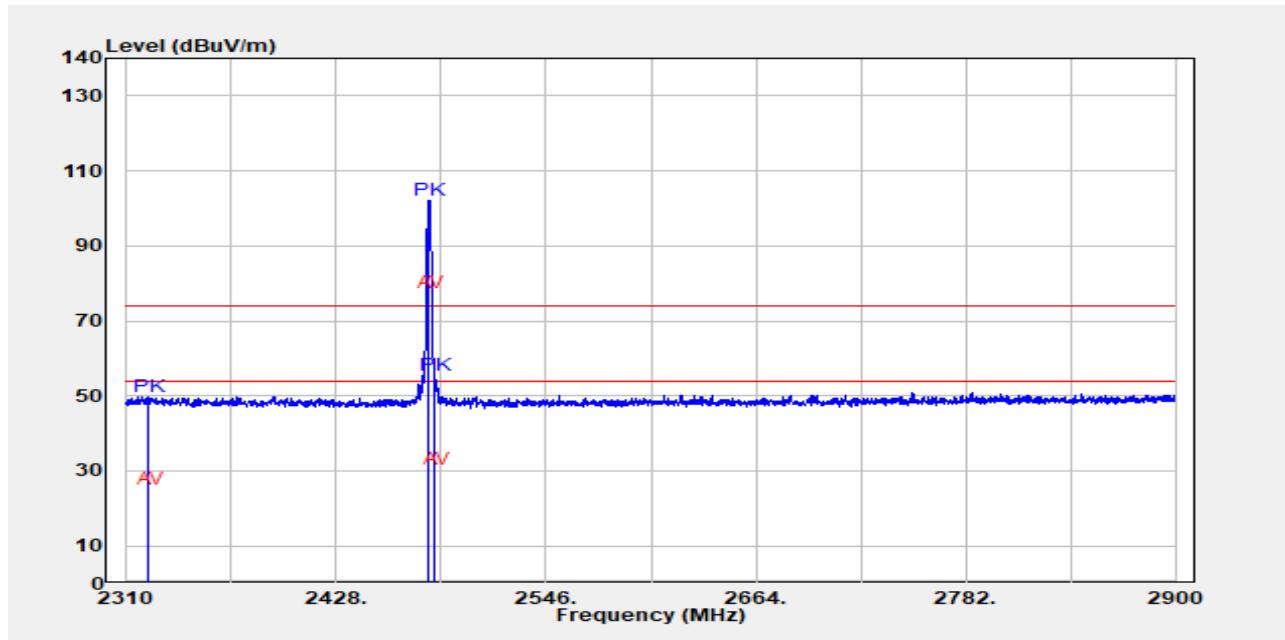
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Report Number :TERF2504001298ER Test Site :SAC 3
 Operation Mode :BR Test Date :2025-05-05
 Test Frequency :2480 MHz Temp./Humi. :23.2°C/62%
 Test Mode :Bandedge Antenna Pol. :Horizontal
 EUT Pol :H Plane Engineer :Nick Lin



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
2322.39	Peak	53.97	-4.08	49.89	74.00	-24.11
2322.39	Average	-	-	25.16	54.00	-28.84
2480.00	Peak	106.87	-4.71	102.16	-	-
2480.00	Average	-	-	77.43	-	-
2483.52	Peak	59.92	-4.70	55.22	74.00	-18.78
2483.52	Average	-	-	30.49	54.00	-23.51

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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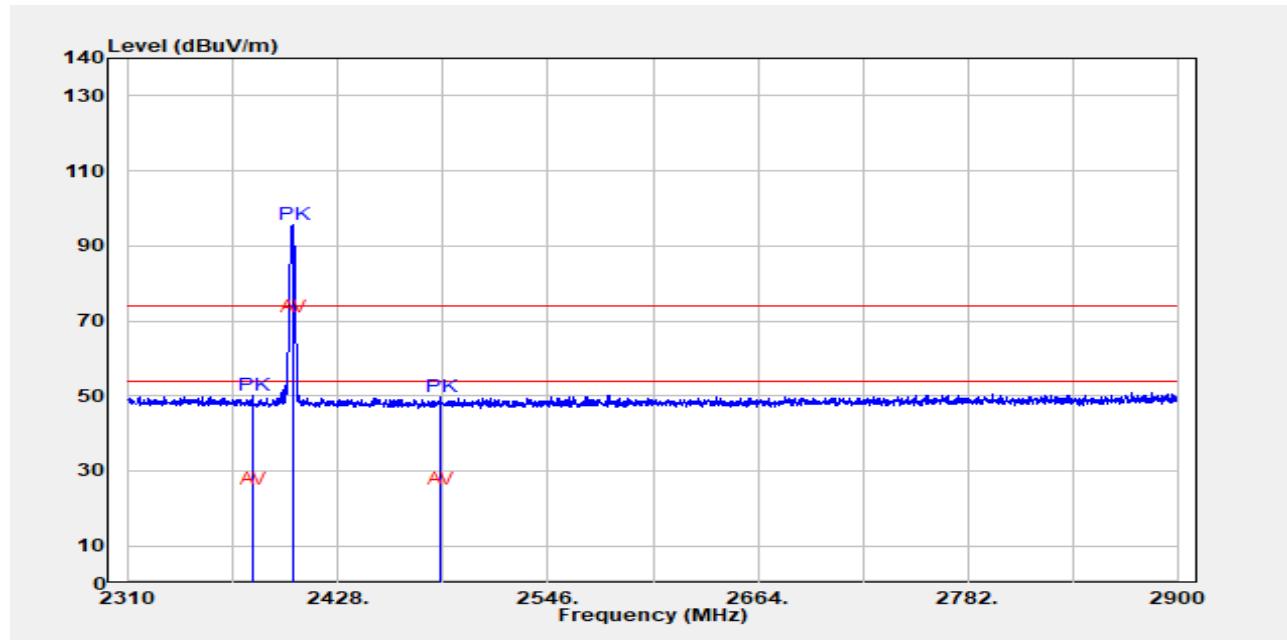
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Report Number :TERF2504001298ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



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
2379.84	Peak	54.36	-4.41	49.95	74.00	-24.05
2379.84	Average	-	-	25.22	54.00	-28.78
2402.00	Peak	100.11	-4.54	95.57	-	-
2402.00	Average	-	-	70.84	-	-
2485.49	Peak	54.59	-4.71	49.88	74.00	-24.12
2485.49	Average	-	-	25.15	54.00	-28.85

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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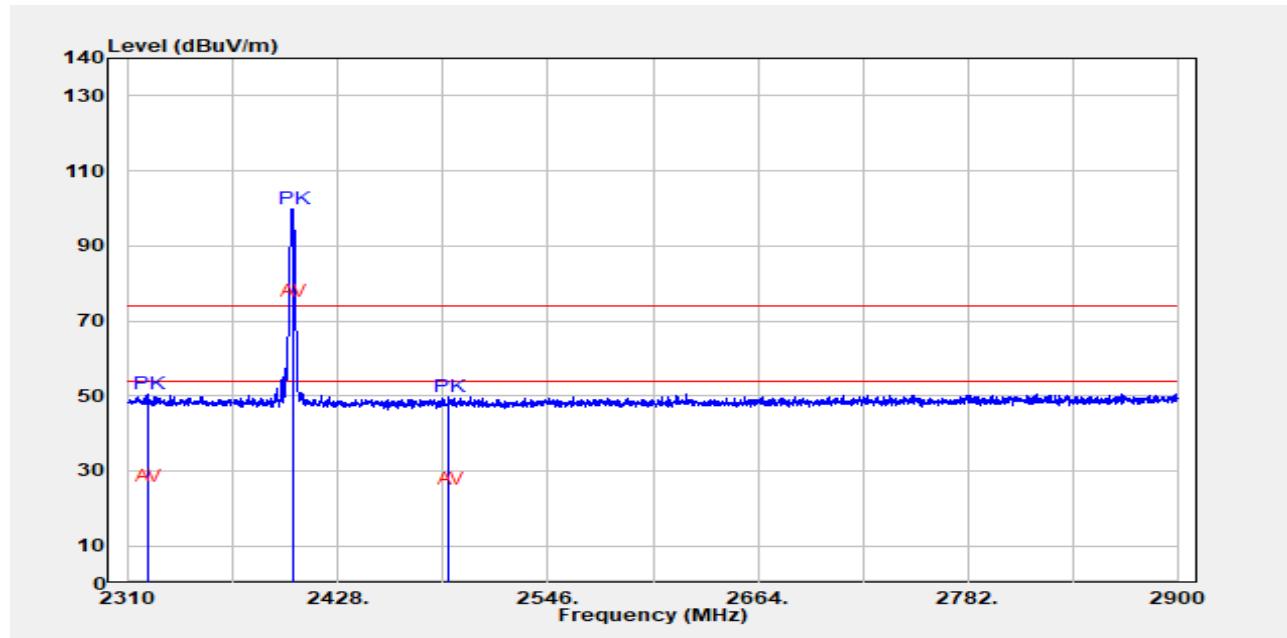
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Report Number :TERF2504001298ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2320.43	Peak	54.52	-4.09	50.43	74.00	-23.57
2320.43	Average	-	-	25.70	54.00	-28.30
2402.00	Peak	104.30	-4.54	99.76	-	-
2402.00	Average	-	-	75.03	-	-
2490.21	Peak	54.33	-4.70	49.63	74.00	-24.37
2490.21	Average	-	-	24.90	54.00	-29.10

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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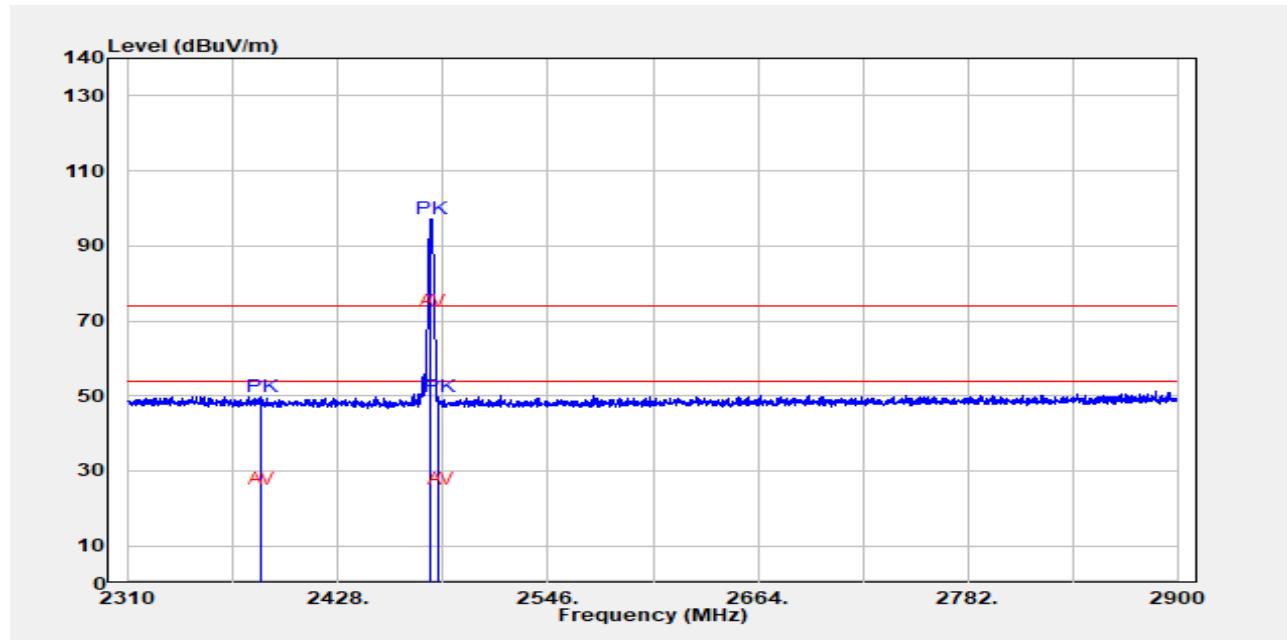
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Report Number :TERF2504001298ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



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
2384.37	Peak	54.31	-4.44	49.87	74.00	-24.13
2384.37	Average	-	-	25.14	54.00	-28.86
2480.00	Peak	102.01	-4.71	97.30	-	-
2480.00	Average	-	-	72.57	-	-
2484.70	Peak	54.32	-4.70	49.62	74.00	-24.38
2484.70	Average	-	-	24.89	54.00	-29.11

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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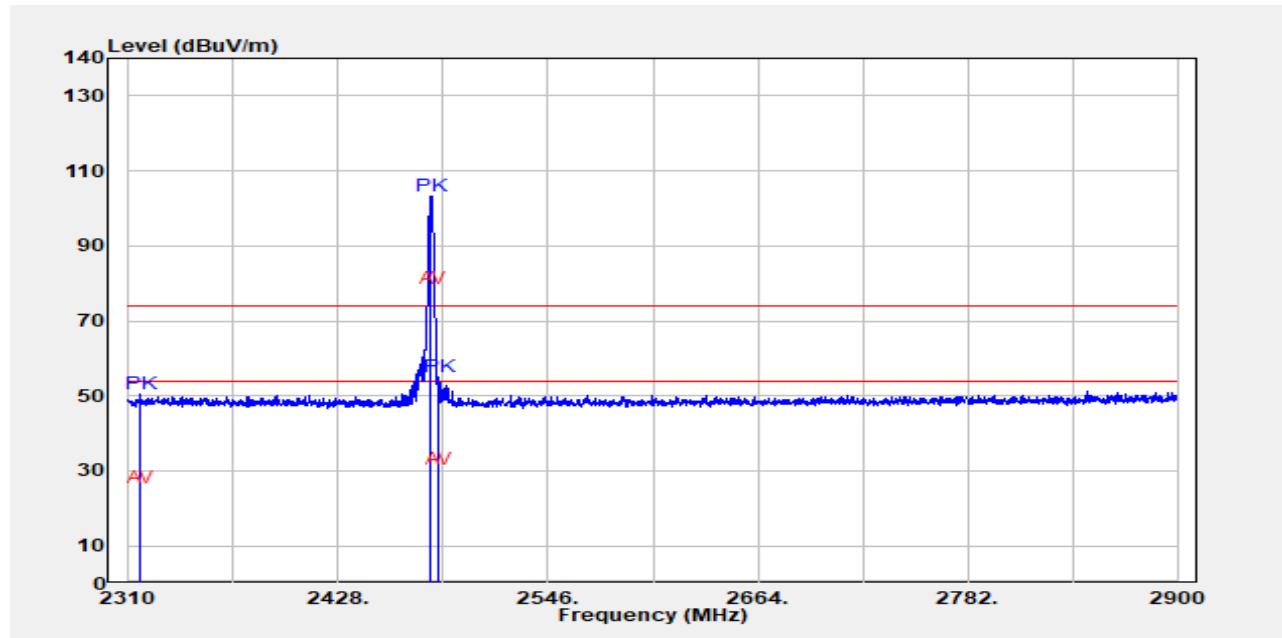
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Report Number :TERF2504001298ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



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
2316.49	Peak	54.39	-4.06	50.33	74.00	-23.67
2316.49	Average	-	-	25.60	54.00	-28.40
2480.00	Peak	107.95	-4.71	103.24	-	-
2480.00	Average	-	-	78.51	-	-
2483.72	Peak	59.78	-4.70	55.08	74.00	-18.92
2483.72	Average	-	-	30.35	54.00	-23.65

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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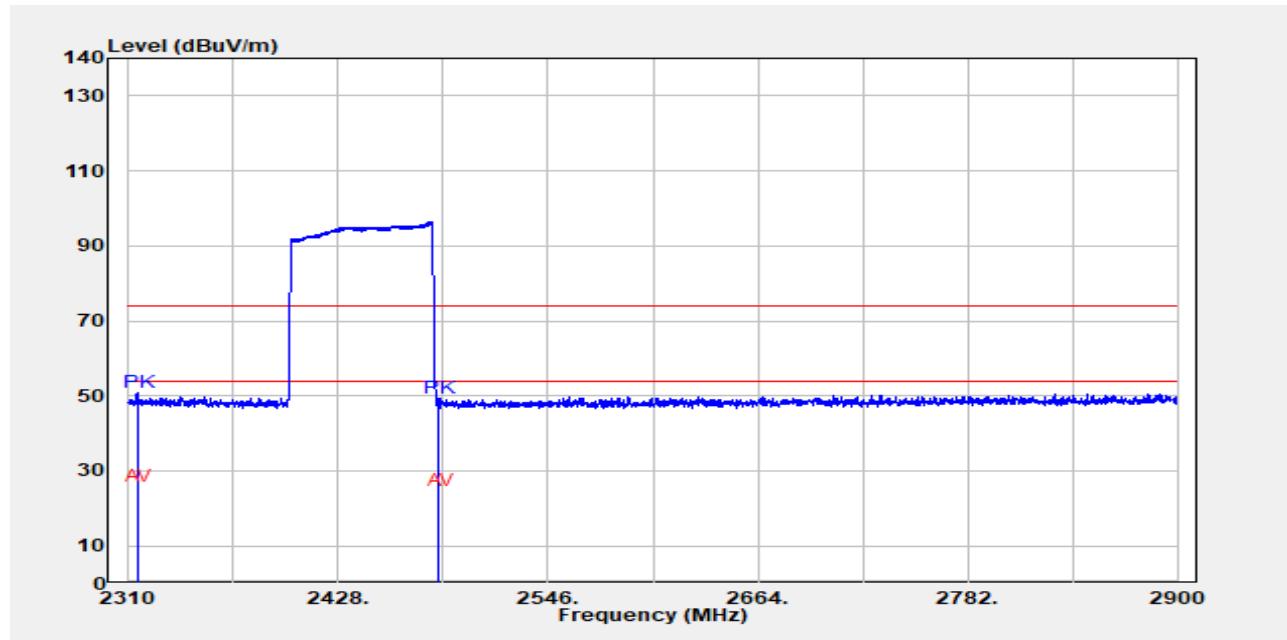
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Report Number :TERF2504001298ER
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



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
2314.72	Peak	54.76	-4.05	50.71	74.00	-23.29
2314.72	Average	-	-	25.98	54.00	-28.02
2484.70	Peak	54.21	-4.70	49.51	74.00	-24.49
2484.70	Average	-	-	24.78	54.00	-29.22

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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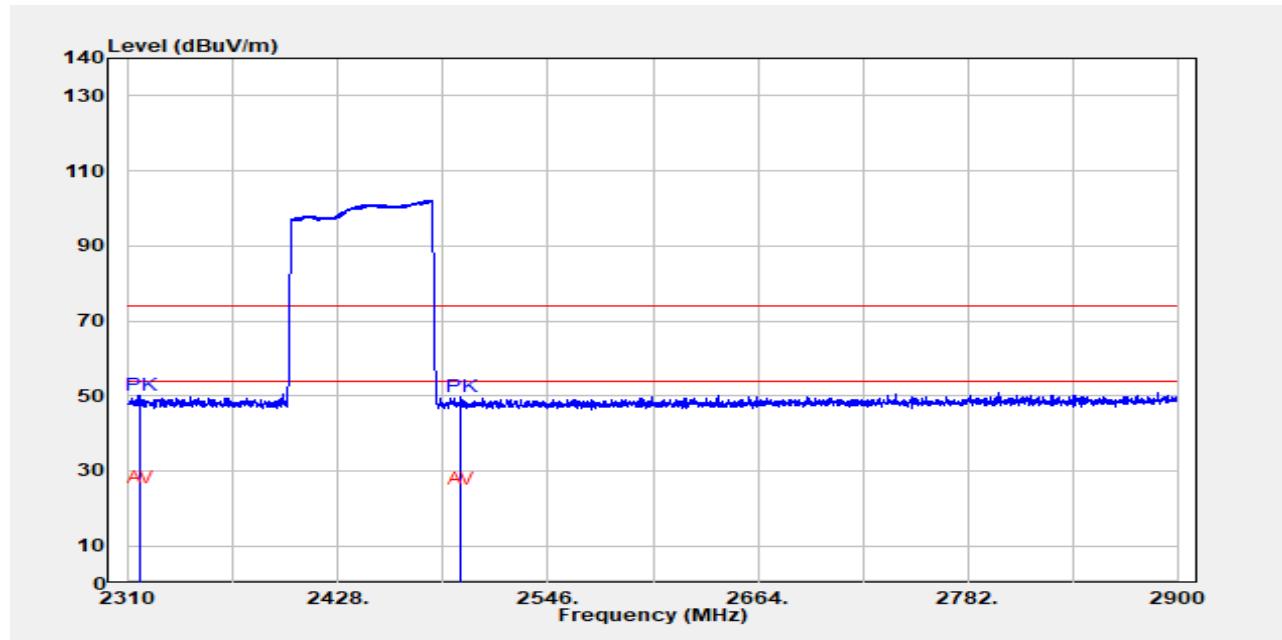
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Report Number :TERF2504001298ER
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



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
2315.90	Peak	54.25	-4.06	50.19	74.00	-23.81
2315.90	Average	-	-	25.47	54.00	-28.53
2496.70	Peak	54.38	-4.70	49.68	74.00	-24.32
2496.70	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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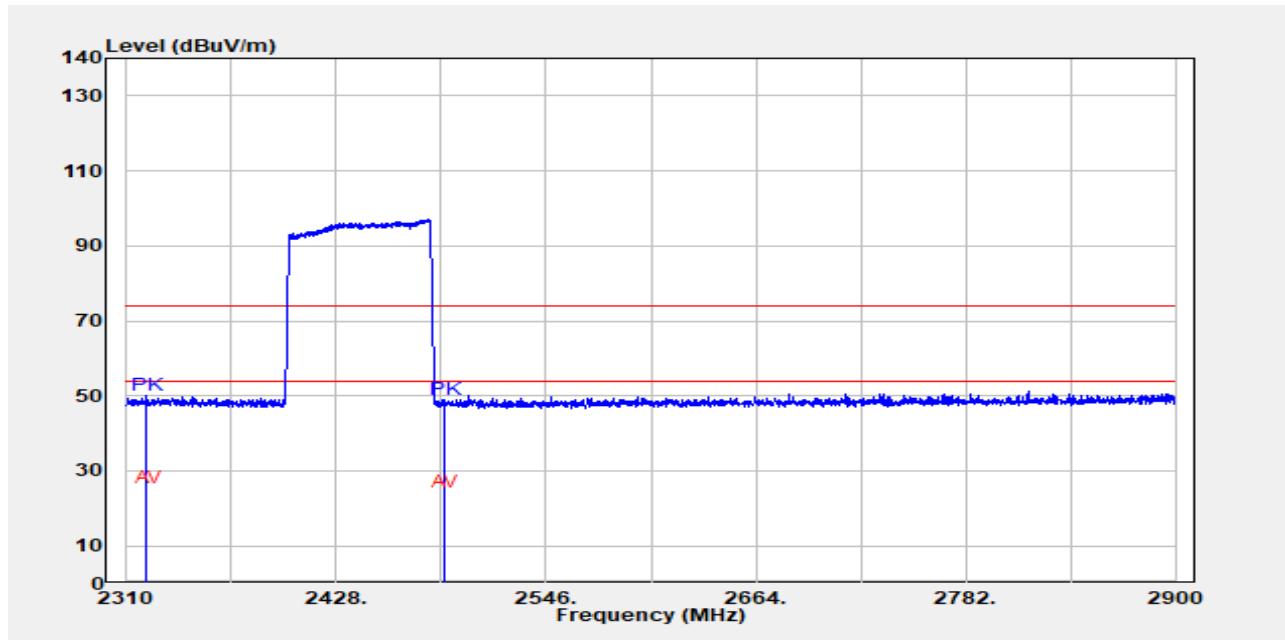
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Report Number :TERF2504001298ER Test Site :SAC 3
Operation Mode :EDR 3M Hopping Test Date :2025-05-05
Test Frequency :2402~2480 MHz Temp./Humi. :23.2°C/62%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :H Plane Engineer :Nick Lin



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
2321.21	Peak	54.21	-4.09	50.12	74.00	-23.88
2321.21	Average	-	-	25.39	54.00	-28.61
2488.44	Peak	53.78	-4.71	49.07	74.00	-24.93
2488.44	Average	-	-	24.34	54.00	-29.66

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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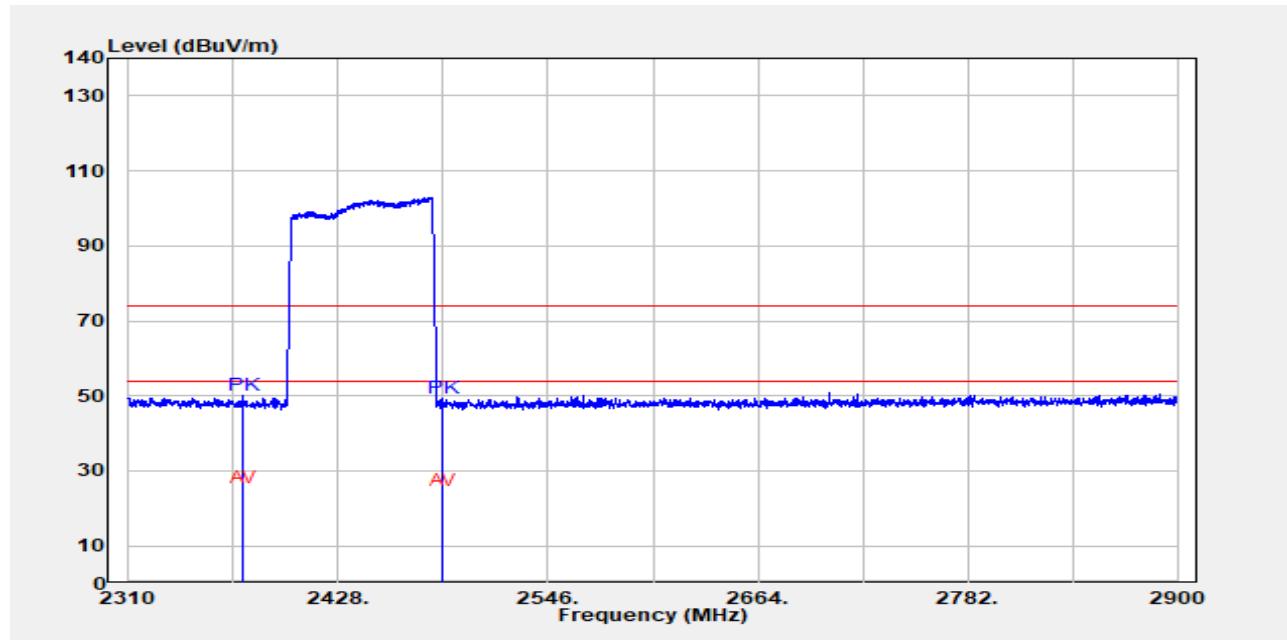
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Report Number :TERF2504001298ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



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
2374.33	Peak	54.49	-4.39	50.10	74.00	-23.90
2374.33	Average	-	-	25.37	54.00	-28.63
2486.08	Peak	54.07	-4.71	49.36	74.00	-24.64
2486.08	Average	-	-	24.63	54.00	-29.37

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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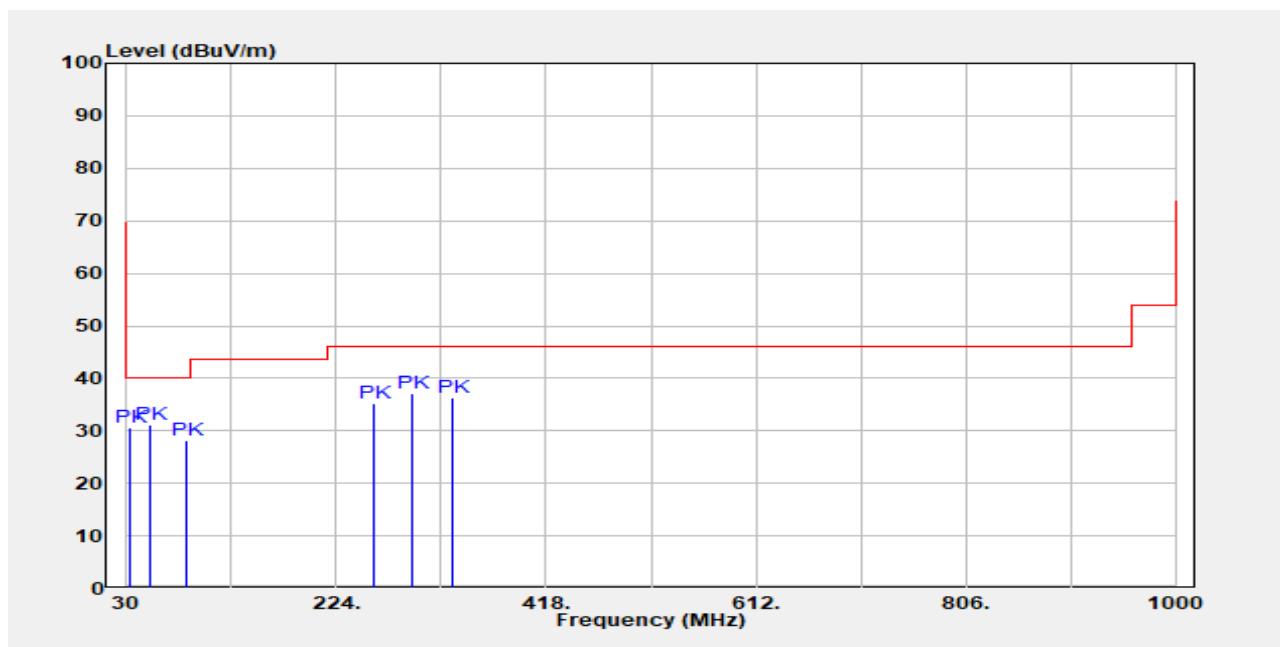
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8.6.4 Radiated Spurious Emission

Report Number	:TERF2504001298ER	Test Site	:SAC 3
Operation Mode	:EDR 3M	Test Date	:2025-05-05
Test Frequency	:2441 MHz	Temp./Humi.	:23.2°C/62%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Nick Lin



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
32.91	Peak	40.57	-10.01	30.56	40.00	-9.44
52.31	Peak	39.84	-8.65	31.19	40.00	-8.81
84.32	Peak	42.19	-13.91	28.28	40.00	-11.72
257.95	Peak	43.49	-8.37	35.12	46.00	-10.88
294.81	Peak	44.28	-7.06	37.22	46.00	-8.78
331.67	Peak	42.81	-6.39	36.42	46.00	-9.58

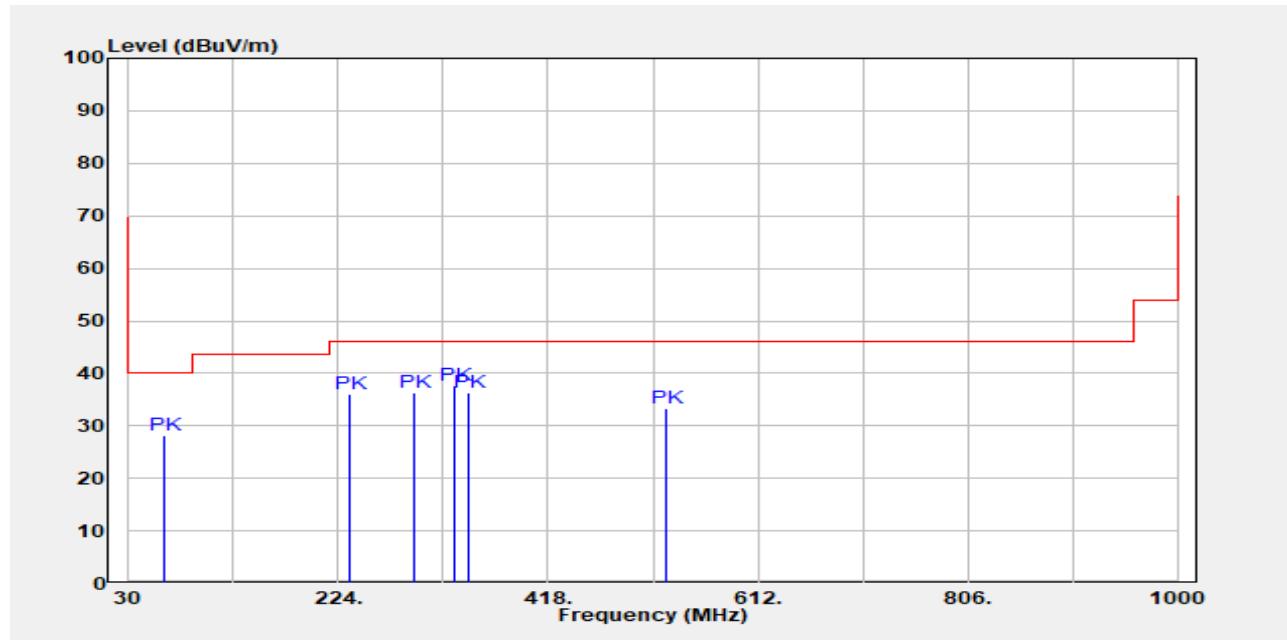
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Report Number :TERF2504001298ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



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
62.98	Peak	37.63	-9.58	28.05	40.00	-11.95
233.70	Peak	45.32	-9.39	35.93	46.00	-10.07
294.81	Peak	43.34	-7.06	36.28	46.00	-9.72
331.67	Peak	43.97	-6.39	37.58	46.00	-8.42
344.28	Peak	42.63	-6.23	36.40	46.00	-9.60
527.61	Peak	36.16	-2.93	33.23	46.00	-12.77

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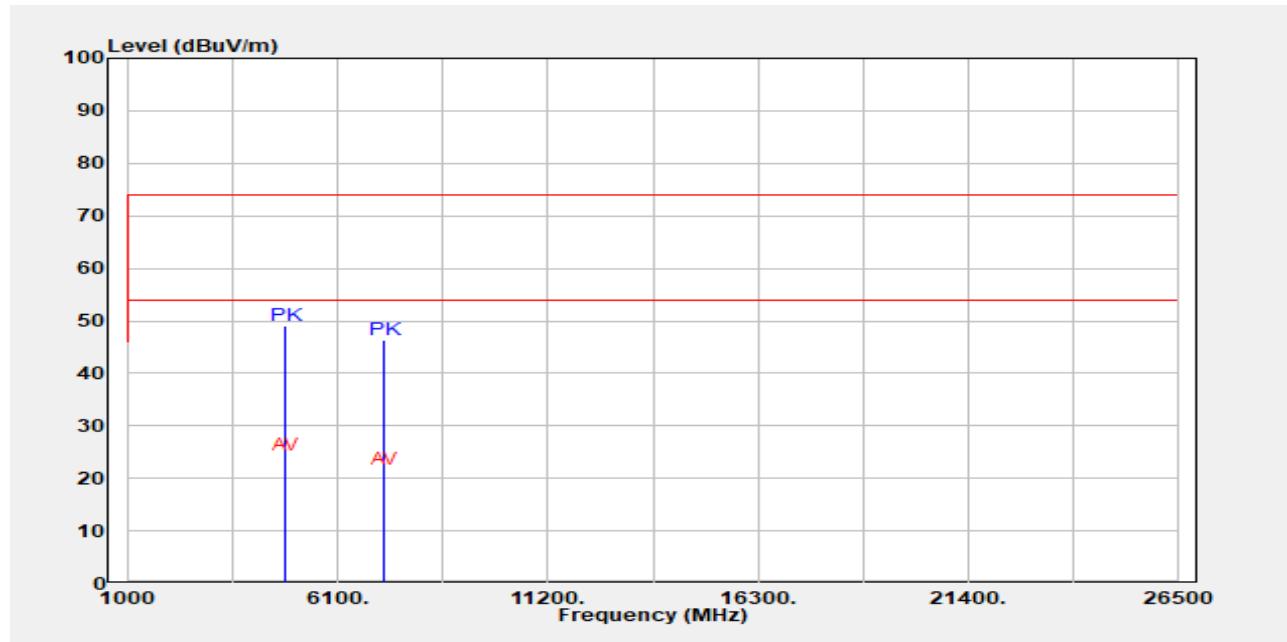
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Report Number :TERF2504001298ER Test Site :SAC 3
 Operation Mode :BR Test Date :2025-05-05
 Test Frequency :2402 MHz Temp./Humi. :23.2°C/62%
 Test Mode :Tx Antenna Pol. :Vertical
 EUT Pol :H Plane Engineer :Nick Lin



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
4804.00	Peak	48.80	0.22	49.02	74.00	-24.98
4804.00	Average	-	-	24.29	54.00	-29.71
7206.00	Peak	40.90	5.38	46.28	74.00	-27.72
7206.00	Average	-	-	21.55	54.00	-32.45

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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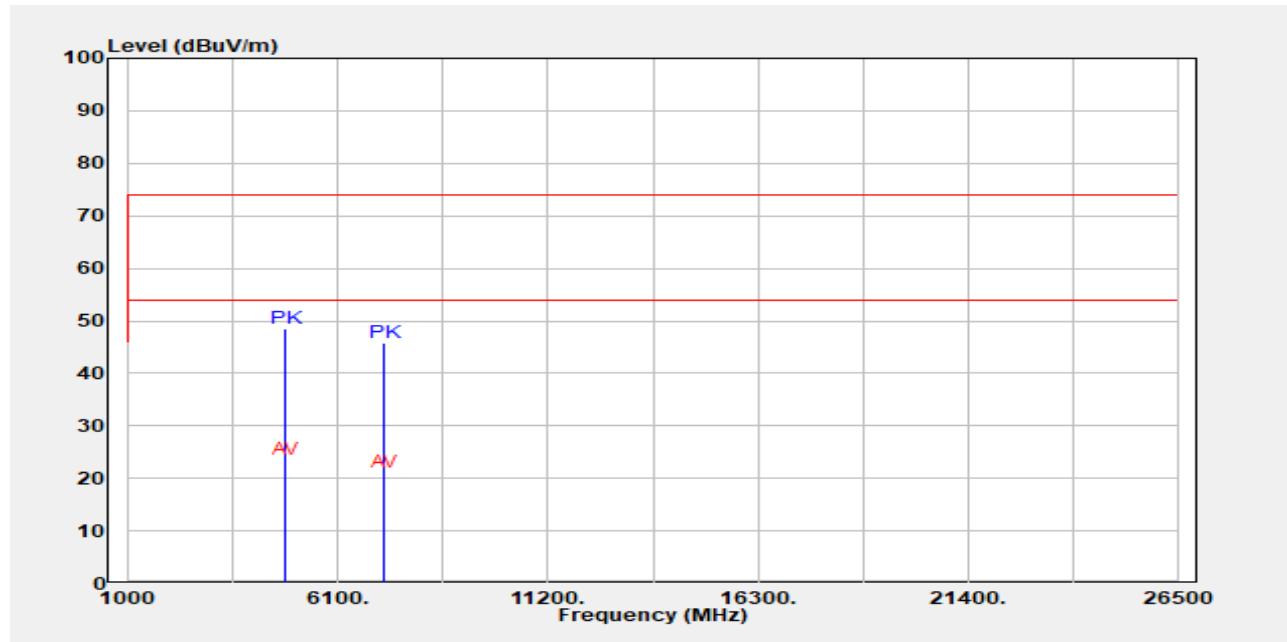
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Report Number :TERF2504001298ER Test Site :SAC 3
 Operation Mode :BR Test Date :2025-05-05
 Test Frequency :2402 MHz Temp./Humi. :23.2°C/62%
 Test Mode :Tx Antenna Pol. :Horizontal
 EUT Pol :H Plane Engineer :Nick Lin



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
4804.00	Peak	48.22	0.22	48.44	74.00	-25.56
4804.00	Average	-	-	23.71	54.00	-30.29
7206.00	Peak	40.39	5.38	45.77	74.00	-28.23
7206.00	Average	-	-	21.04	54.00	-32.96

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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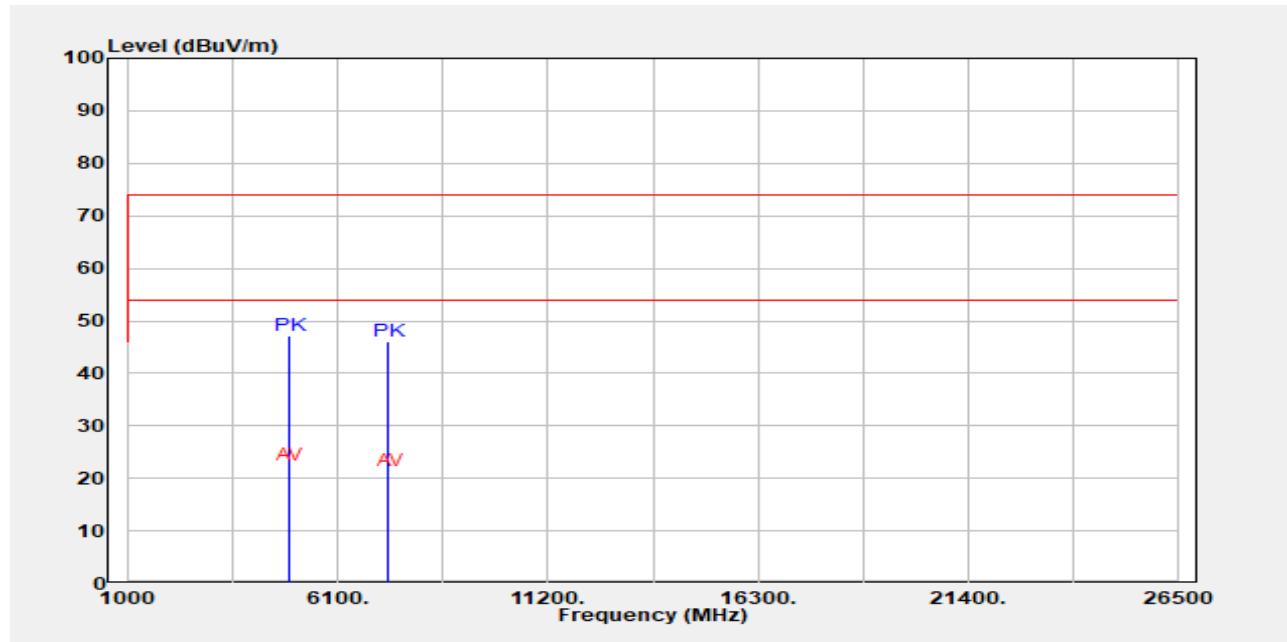
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Report Number :TERF2504001298ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



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
4882.00	Peak	47.05	0.20	47.25	74.00	-26.75
4882.00	Average	-	-	22.52	54.00	-31.48
7323.00	Peak	40.56	5.58	46.14	74.00	-27.86
7323.00	Average	-	-	21.41	54.00	-32.59

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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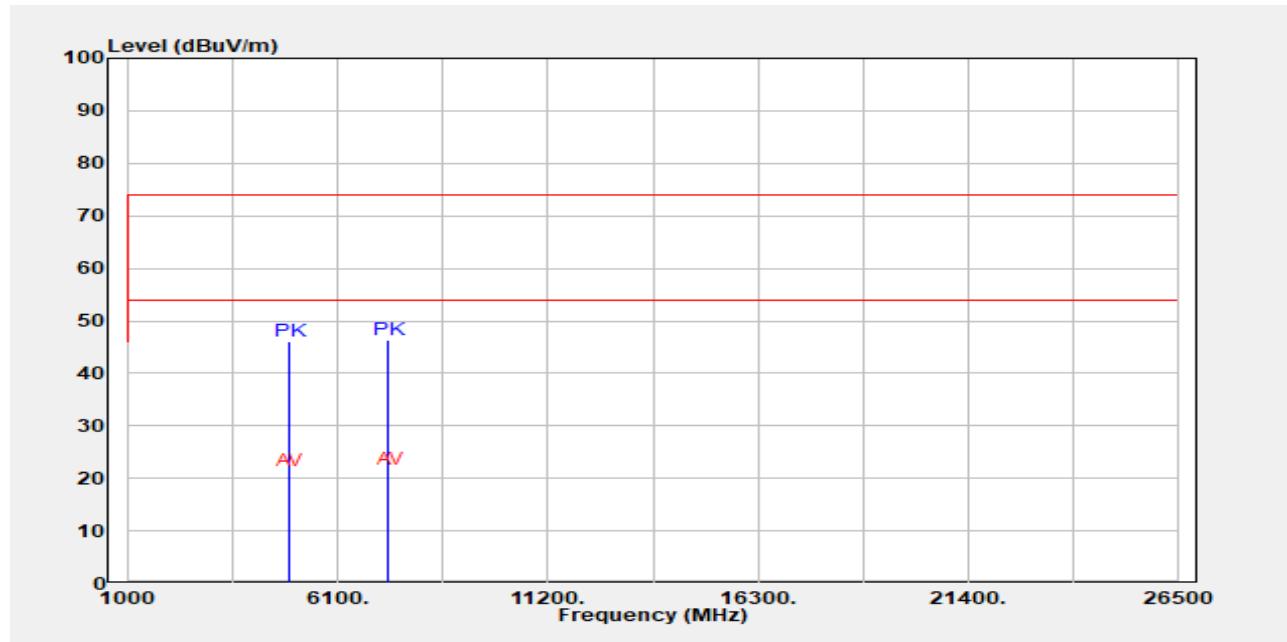
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Report Number :TERF2504001298ER Test Site :SAC 3
Operation Mode :BR Test Date :2025-05-05
Test Frequency :2441 MHz Temp./Humi. :23.2°C/62%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :H Plane Engineer :Nick Lin



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
4882.00	Peak	45.82	0.20	46.02	74.00	-27.98
4882.00	Average	-	-	21.29	54.00	-32.71
7323.00	Peak	40.84	5.58	46.42	74.00	-27.58
7323.00	Average	-	-	21.69	54.00	-32.31

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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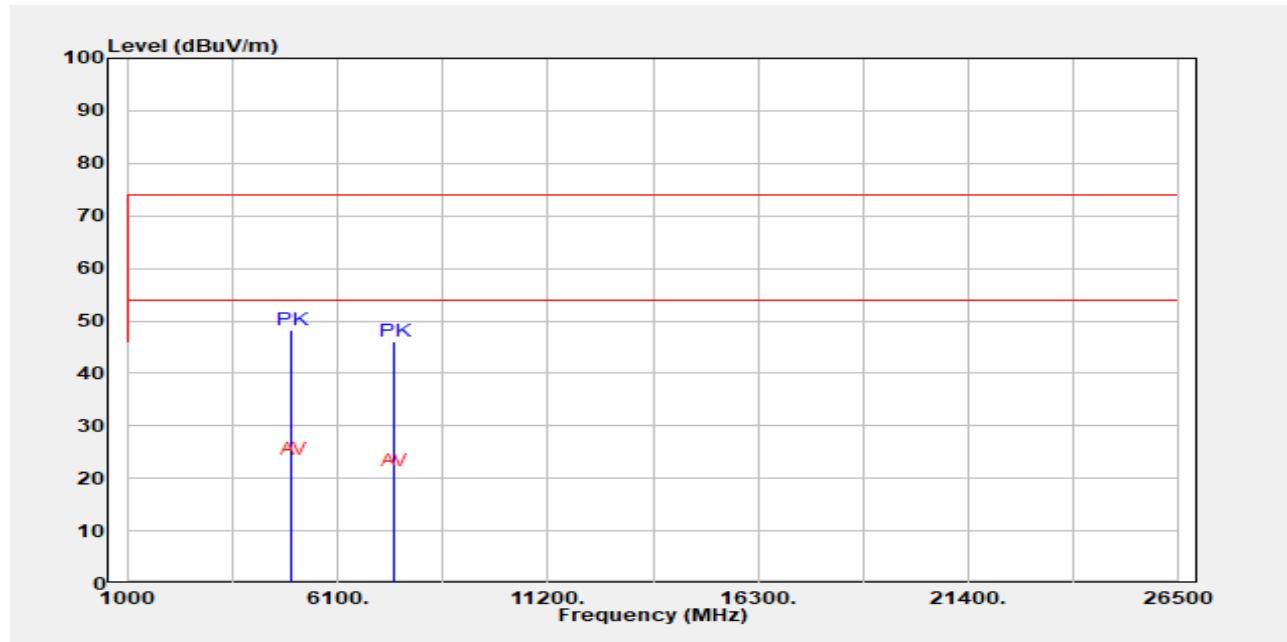
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Report Number :TERF2504001298ER Test Site :SAC 3
Operation Mode :BR Test Date :2025-05-05
Test Frequency :2480 MHz Temp./Humi. :23.2°C/62%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :H Plane Engineer :Nick Lin



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
4960.00	Peak	47.74	0.46	48.20	74.00	-25.80
4960.00	Average	-	-	23.47	54.00	-30.53
7440.00	Peak	40.66	5.54	46.20	74.00	-27.80
7440.00	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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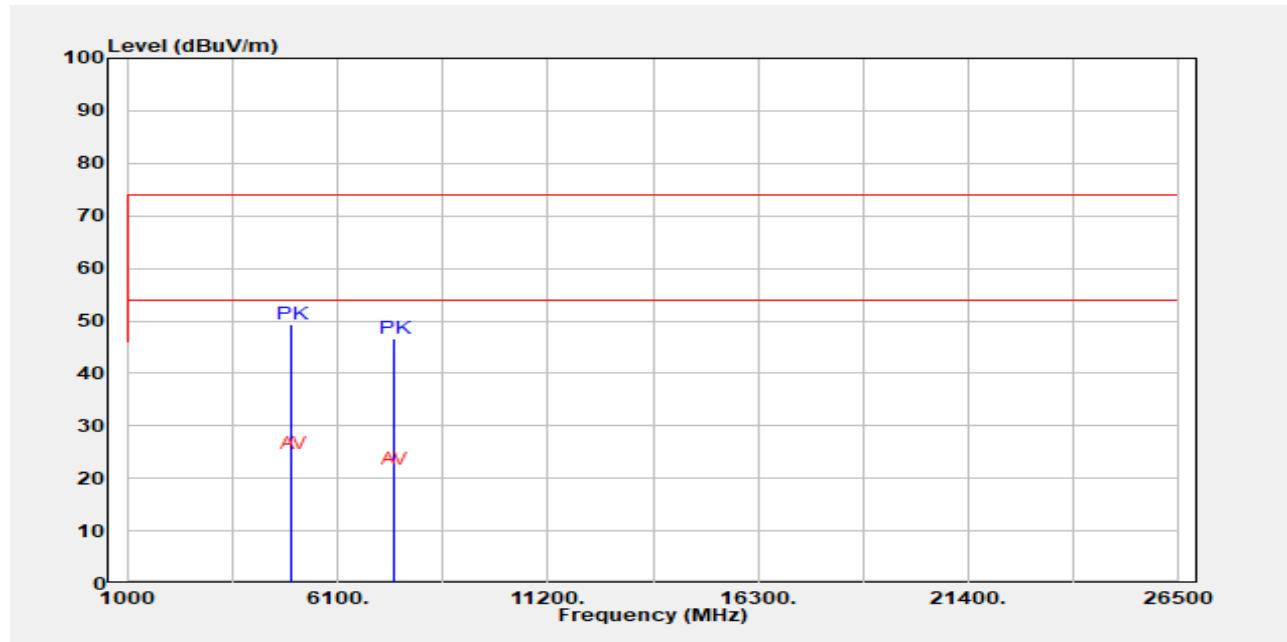
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Report Number :TERF2504001298ER Test Site :SAC 3
 Operation Mode :BR Test Date :2025-05-05
 Test Frequency :2480 MHz Temp./Humi. :23.2°C/62%
 Test Mode :Tx Antenna Pol. :Horizontal
 EUT Pol :H Plane Engineer :Nick Lin



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
4960.00	Peak	48.84	0.46	49.30	74.00	-24.70
4960.00	Average	-	-	24.57	54.00	-29.43
7440.00	Peak	40.95	5.54	46.49	74.00	-27.51
7440.00	Average	-	-	21.76	54.00	-32.24

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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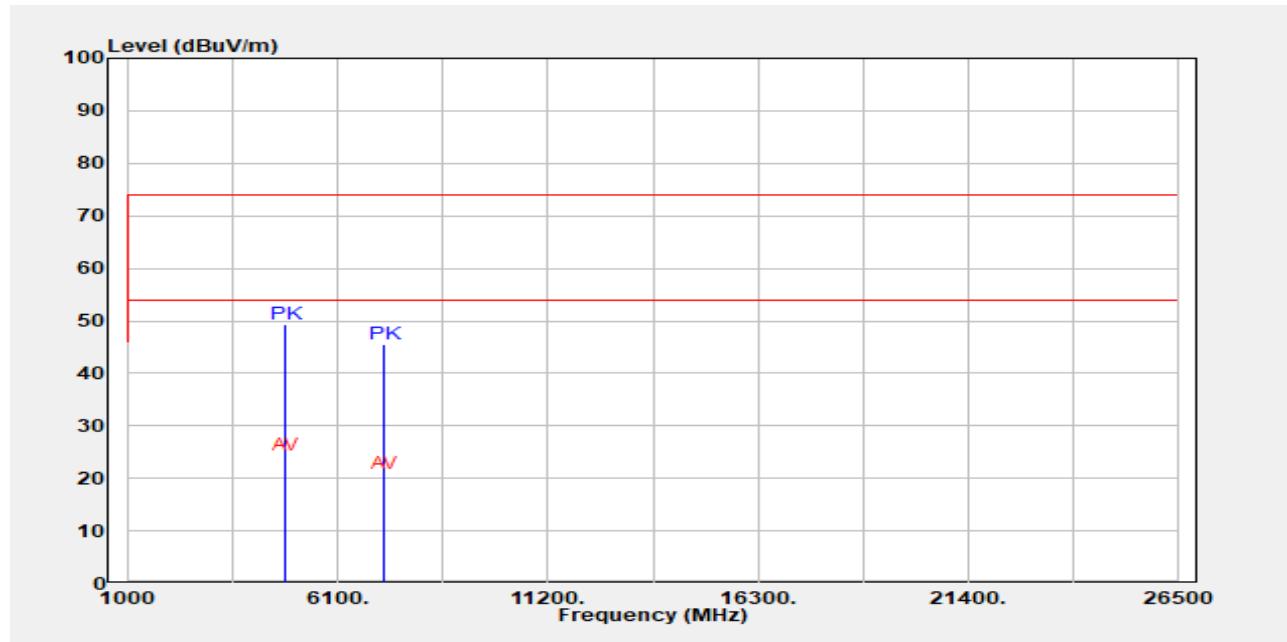
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Report Number :TERF2504001298ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2025-05-05
 Temp./Humi. :23.2°C/62%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



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
4804.00	Peak	48.98	0.22	49.20	74.00	-24.80
4804.00	Average	-	-	24.47	54.00	-29.53
7206.00	Peak	40.10	5.38	45.48	74.00	-28.52
7206.00	Average	-	-	20.75	54.00	-33.25

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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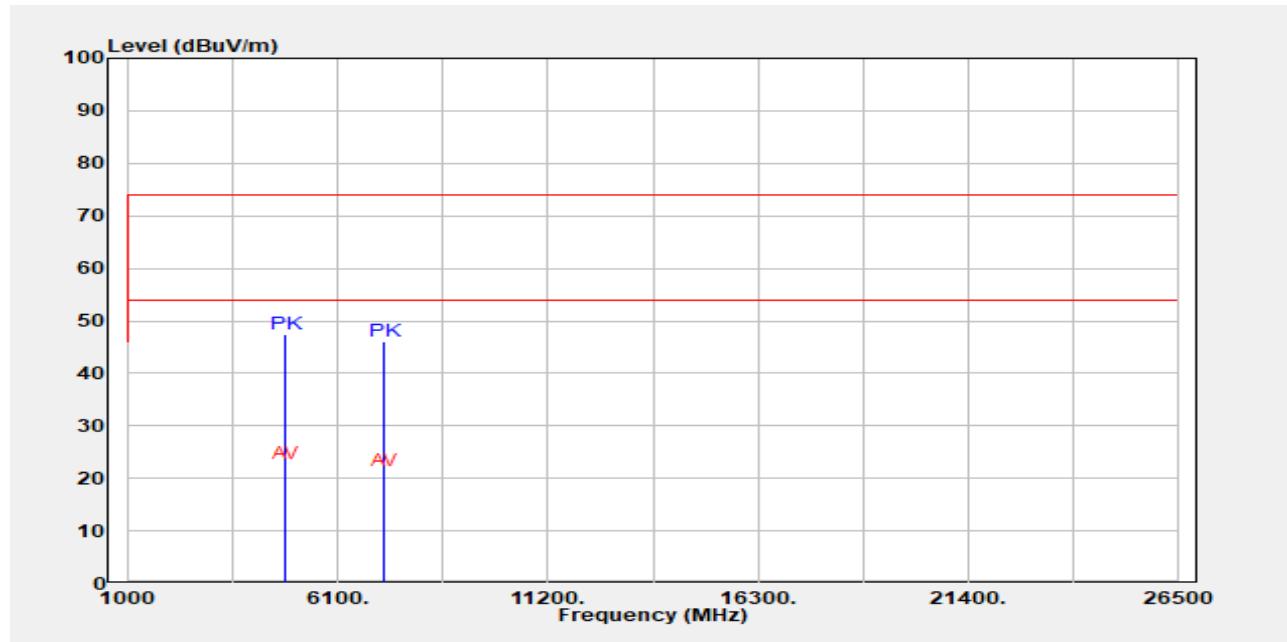
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Report Number :TERF2504001298ER Test Site :SAC 3
Operation Mode :EDR 3M Test Date :2025-05-05
Test Frequency :2402 MHz Temp./Humi. :23.2°C/62%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :H Plane Engineer :Nick Lin



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
4804.00	Peak	47.23	0.22	47.45	74.00	-26.55
4804.00	Average	-	-	22.72	54.00	-31.28
7206.00	Peak	40.70	5.38	46.08	74.00	-27.92
7206.00	Average	-	-	21.35	54.00	-32.65

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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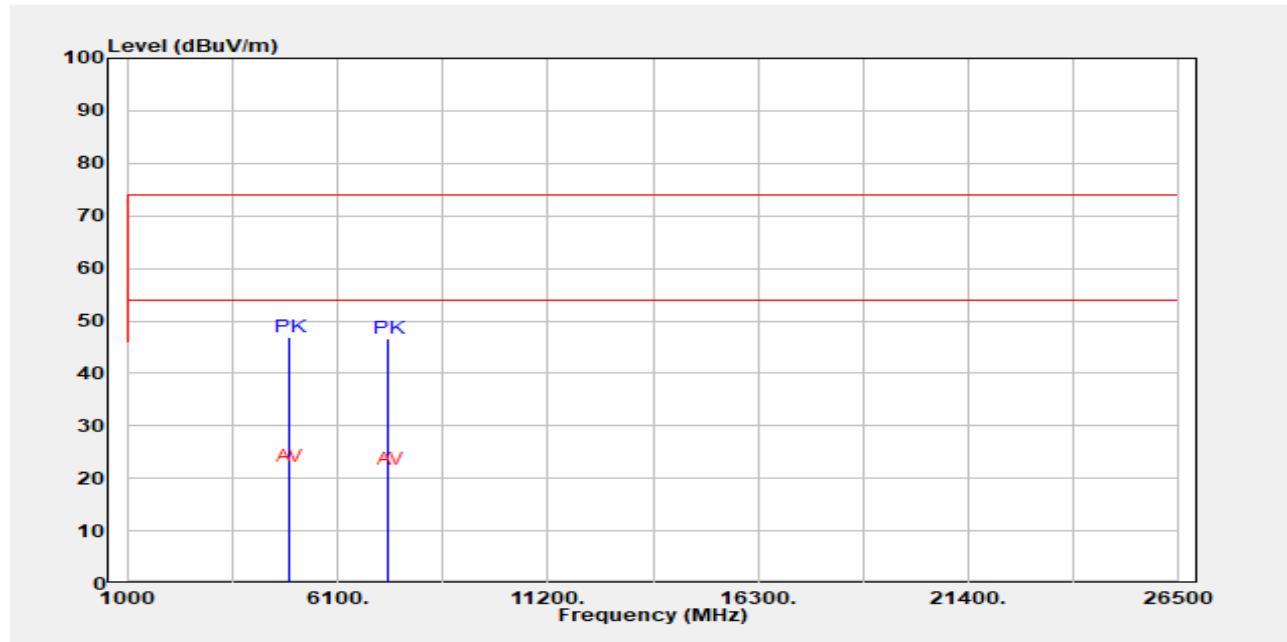
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Report Number :TERF2504001298ER Test Site :SAC 3
Operation Mode :EDR 3M Test Date :2025-05-05
Test Frequency :2441 MHz Temp./Humi. :23.2°C/62%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :H Plane Engineer :Nick Lin



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
4882.00	Peak	46.80	0.20	47.00	74.00	-27.00
4882.00	Average	-	-	22.27	54.00	-31.73
7323.00	Peak	40.90	5.58	46.48	74.00	-27.52
7323.00	Average	-	-	21.75	54.00	-32.25

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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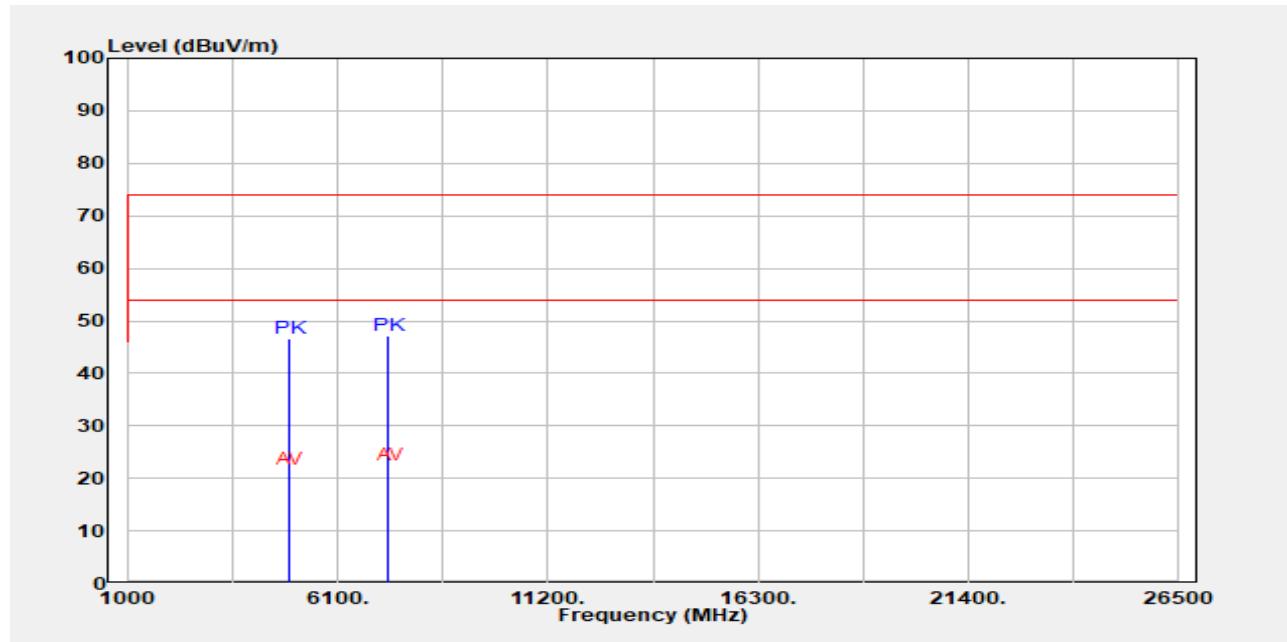
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Report Number :TERF2504001298ER Test Site :SAC 3
Operation Mode :EDR 3M Test Date :2025-05-05
Test Frequency :2441 MHz Temp./Humi. :23.2°C/62%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :H Plane Engineer :Nick Lin



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
4882.00	Peak	46.33	0.20	46.53	74.00	-27.47
4882.00	Average	-	-	21.80	54.00	-32.20
7323.00	Peak	41.55	5.58	47.13	74.00	-26.87
7323.00	Average	-	-	22.40	54.00	-31.60

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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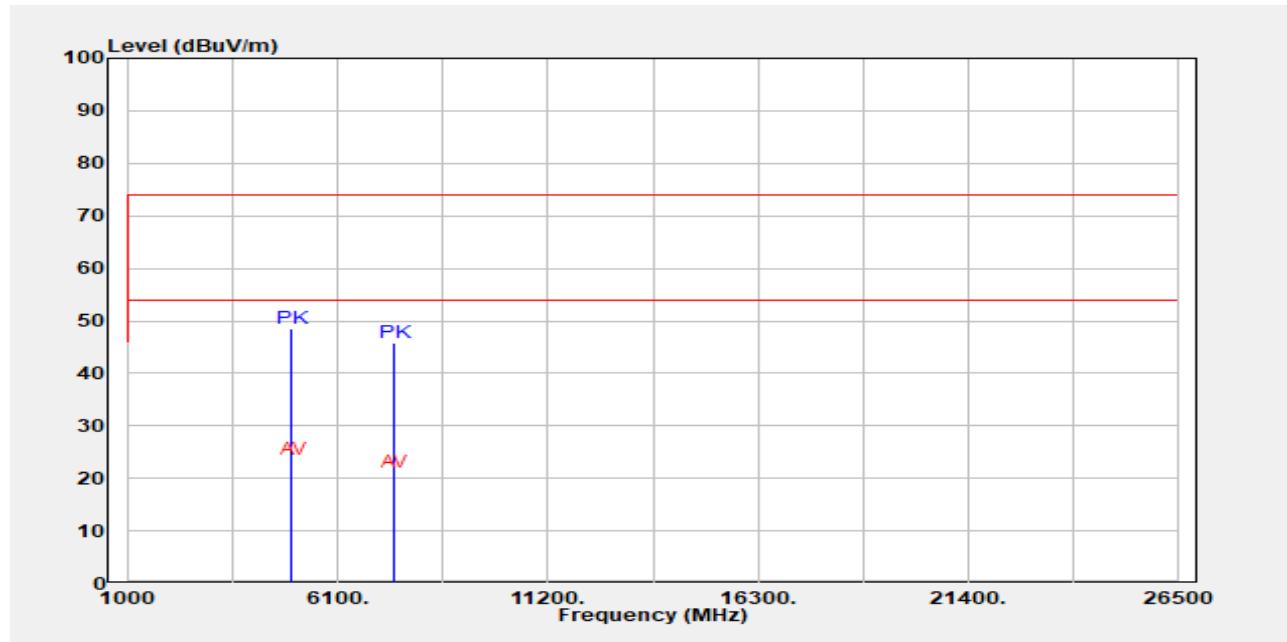
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Report Number :TERF2504001298ER Test Site :SAC 3
Operation Mode :EDR 3M Test Date :2025-05-05
Test Frequency :2480 MHz Temp./Humi. :23.2°C/62%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :H Plane Engineer :Nick Lin



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
4960.00	Peak	47.94	0.46	48.40	74.00	-25.60
4960.00	Average	-	-	23.67	54.00	-30.33
7440.00	Peak	40.27	5.54	45.81	74.00	-28.19
7440.00	Average	-	-	21.08	54.00	-32.92

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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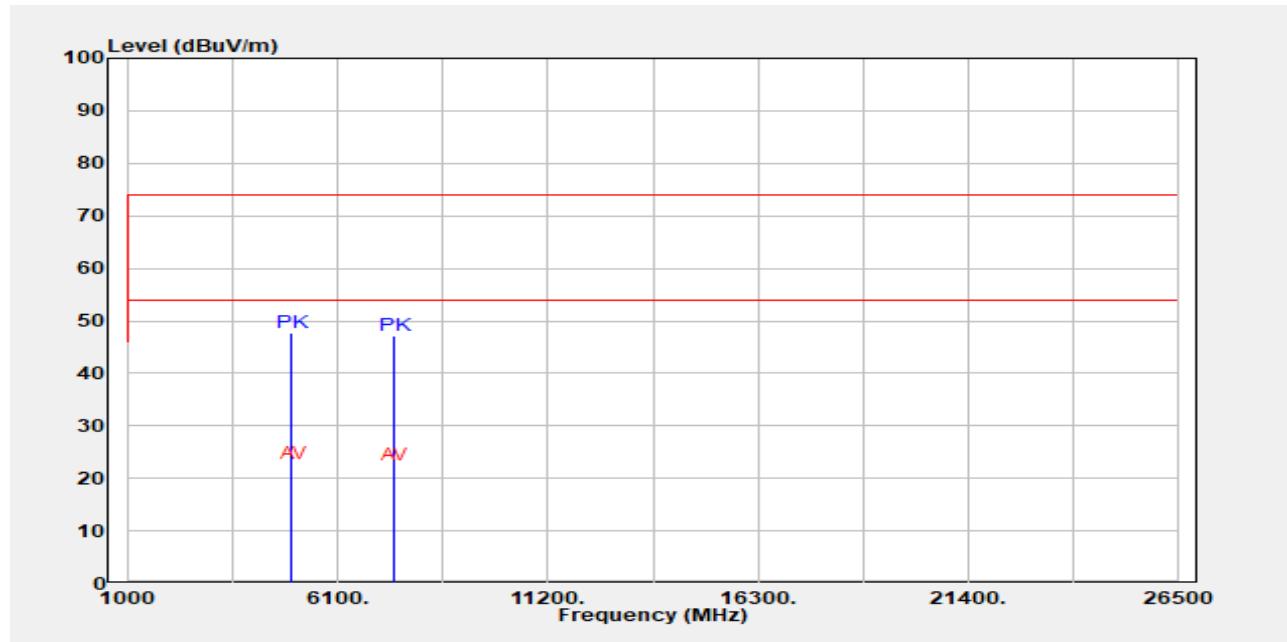
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Report Number :TERF2504001298ER Test Site :SAC 3
Operation Mode :EDR 3M Test Date :2025-05-05
Test Frequency :2480 MHz Temp./Humi. :23.2°C/62%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :H Plane Engineer :Nick Lin



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
4960.00	Peak	47.12	0.46	47.58	74.00	-26.42
4960.00	Average	-	-	22.85	54.00	-31.15
7440.00	Peak	41.62	5.54	47.16	74.00	-26.84
7440.00	Average	-	-	22.43	54.00	-31.57

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

~ End of Report ~

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