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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Manufacturer: ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Product Name: Dongle

Brand Name: ASUS

Model No.: MD102-D

Report Number: TERF2406001605ER

FCC ID MSQ-DG-MD102D

Date of EUT Received: June 04, 2024

Date of Test: June 05, 2024~June 18, 2024

Issue Date: July 22, 2024

Approved By

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 §15.249.

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	
TERF2406001605ER	00	Original	July 04, 2024	Kate Lai		
TERF2406001605ER	01	Revised: Applicant Manufacturer Frequency Range	July 22, 2024	Kate Lai	*	

Note:

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

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GENERAL INFORMATION

1.1 **Product Description**

Product Name:	Dongle
Brand Name:	ASUS
Model No.:	MD102-D
Hardware Version:	V04
Firmware Version:	V59
EUT Series No.:	MA0001411582-D
Power Supply:	5Vdc
Test Software (Name/Version)	CompxTest 1.4.0.09271

1.2 **RF Specification**

Radio Technology:	2.4GHz Short Range Radio
Frequency Range:	2403 - 2480MHz
Channel number:	16 Channels
Modulation type:	GFSK
Transmit Power:	99.20 dBµV/m at 3m (Peak) 66.54 dBuV/m at 3m (Avg)

1.3 Antenna Designation

Antenna	Supplier	Antenna	Freq.	Peak Antenna
Type		Part No.	(MHz)	Gain (dBi)
Copper trace antenna	DEXIN Corporation	MD102 -DG	2400-2500	1.07

Note: Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.249 ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 Wu Kung Bood New Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027	
	Taipei City, Taiwan.	Conducted 2	1 440021	
	raiper Oity, Taiwaii.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		TW3702
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladydaii Oity, Taiwaii 333	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 are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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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 a 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 according to §15.207. 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 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.

2.3.3 Radiated Emissions

The EUT is a 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.

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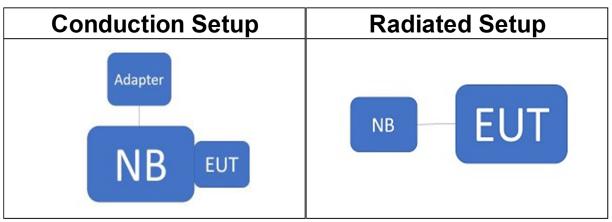
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2.5 **Test Configuration**



Control Unit(s) 2.6

AC Power-Line Conducted Emission Test Site: Conduction 1							
EQUIPMENT TYPE	EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER		LAST CAL.	CAL DUE.			
Adapter	Lenovo	ADLX90NLC3A	N/A	N/A	N/A		
Notebook	Lenovo	T440P	PB-03ECDS 14/08	N/A	N/A		
	Radiated Emission Test Site: SAC 3						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Notebook	Lenovo	T440P	PB-03ECDS 14/08	N/A	N/A		
USB Extension Cord Type A Male to Female	MAGIC	UF3AMAF018K	N/A	N/A	N/A		

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3 SUMMARY OF TEST RESULTS

FCC Rules	FCC Rules Description Of Test	
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.205 §15.249(a)(e) §15.209	Radiated Emission	Compliant
§15.215(c)	Emission Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

4.1 **Operating Frequencies**

Channel	Frequency
1	2403
2	2426
3	2441
4	2463
5	2407
6	2422
7	2445
8	2466
9	2414
10	2436
11	2459
12	2473
13	2419
14	2439
15	2453
16	2480

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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.

RADIATED EMISSION TEST:

,,, ti == =	THE EMILION LEGIT					
	TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
SRD	1 to 16	3	GFSK	2		
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
SRD	1 to 16	1,3,16	GFSK	2		

Note: 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.

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MEASUREMENT UNCERTAINTY

Test Items	Uı	ncertaint	:y
AC Power Line Conducted Emission	Emission +/- 1.54		dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
	+/-	1.89	dB	9kHz~30MHz	
Polarization: Vertical	+/-	4.15	dB	30MHz - 1000MHz	
Polarization. Vertical	+/-	3.43	dB	1GHz - 18GHz	
	+/-	3.86	dB	18GHz - 40GHz	
		1.89	dB	9kHz~30MHz	
Polarization: Horizontal	+/-	4.02	dB	30MHz - 1000MHz	
Polarization. Horizontal	+/-	3.43	dB	1GHz - 18GHz	
	+/-	3.86	dB	18GHz - 40GHz	
	+/-	2	dB	33GHz-50GHz	
	+/-	1.59	dB	50GHz-60GHz	
Radiated Spurious Emission	+/-	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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7 MEASUREMENT EQUIPMENT USED

7.1 Emission from AC power line

	AC Power-Line Conducted Emission Test Site: Conduction 1							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM- BM-3000	161207	06/22/2023	06/21/2024			
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024			
LISN	SCHWARZBECK	NSLK 8127	1040	09/06/2023	09/05/2024			
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2023	06/21/2024			
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R			

7.2 Radiated Measurement

	Radiated Emission Test Site: SAC 3								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
4G High Pass Filter	WI	WHKX4.0	22	12/12/2023	12/11/2024				
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024				
Band Reject Filter 2400-2483.5	EWT	EWT-54-0038	M2	12/12/2023	12/11/2024				
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2023	08/08/2024				
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000+EMC107-SM- SM-1500+EMC107- SM-SM- 8000+SUCOFLEX 104PEA	RX Cable 9K-18G (221110+221106+22 1212+MY4251/4PE A)	08/31/2023	08/30/2024				
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/31/2023	08/30/2024				
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024				
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025				
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024				
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2023	09/22/2024				
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024				
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/31/2023	08/30/2024				
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024				
Pre-Amplifier	HP	8447D	2944A07676	08/31/2023	08/30/2024				
Site Cal	SGS	SAC 3	N/A	08/31/2023	08/30/2024				
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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AC POWER LINE CONDUCTED EMISSION TEST

8.1 Applicable Standard:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below

· · · · · · · · · · · · · · · · · · ·	90		
Frequenc	v range		imits BuV)
i roquonic	y rango	\u	Dav _j
MH	lz	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

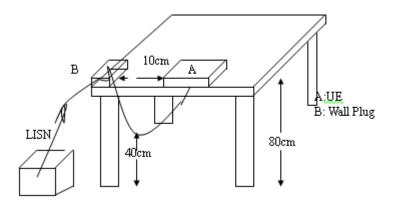
Note

- 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.

8.2 **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.

8.3 **Test Setup**



8.4 **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.
- Repeat above procedures until all phases of power being supplied by given UE are completed

8.5 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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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2406001605ER

Test Site :Conduction 1

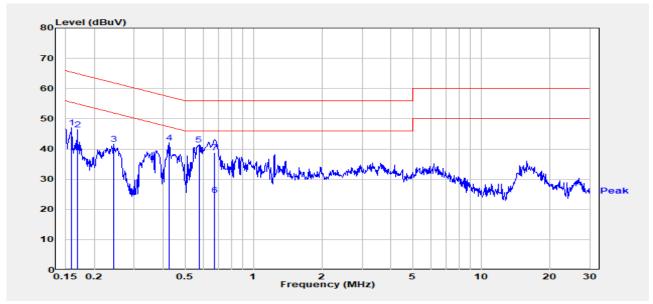
Operation Mode: SRD

Test Date :2024-06-13

Power :120V/60Hz Temp./Humi. :24.9°C/58%

Probe :L Engineer :Nick Lin

Note:



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.159	Peak	36.81	10.13	46.94	65.52	-18.57
0.169	Peak	36.22	10.13	46.35	65.03	-18.69
0.244	Peak	31.56	10.14	41.69	61.95	-20.26
0.428	Peak	31.82	10.15	41.98	57.29	-15.31
0.576	Peak	31.24	10.17	41.41	56.00	-14.59
0.672	Average	14.43	10.18	24.61	46.00	-21.39
0.672	QP	28.54	10.18	38.72	56.00	-17.28
0.244 0.428 0.576 0.672	Peak Peak Peak Average	31.56 31.82 31.24 14.43	10.14 10.15 10.17 10.18	41.69 41.98 41.41 24.61	61.95 57.29 56.00 46.00	-20. -15. -14. -21.

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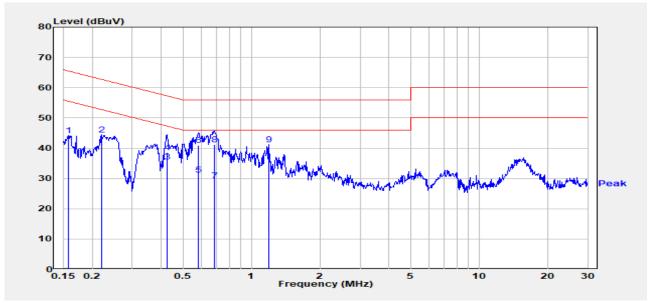
Report Number :TERF2406001605ER Test Site :Conduction 1

Operation Mode :SRD Test Date :2024-06-13

Power :120V/60Hz Temp./Humi. :24.9°C/58%

Probe :N Engineer :Nick Lin

Note: :



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.156	Peak	34.15	10.12	44.27	65.65	-21.38
0.220	Peak	34.28	10.12	44.41	62.83	-18.43
0.426	Average	25.33	10.15	35.48	47.33	-11.85
0.426	QP	28.37	10.15	38.52	57.33	-18.81
0.585	Average	21.02	10.17	31.19	46.00	-14.81
0.585	QP	30.78	10.17	40.95	56.00	-15.05
0.686	Average	19.11	10.18	29.29	46.00	-16.71
0.686	QP	30.92	10.18	41.10	56.00	-14.90
1.197	Peak	30.90	10.19	41.09	56.00	-14.91

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RADIATED EMISSION TEST

9.1 **Applicable Standard**

- 1. Only spurious emissions are permitted in any of the frequency bands listed in §15.205.
- 2. The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.
- 3. Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in §15.209, whichever is less stringent.

9.2 Measurement Procedure

9.2.1 **Duty Factor**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Set span = Zero
- 3. RBW = 8MHz, VBW = 8MHz,
- Detector = Peak

9.2.2 Radiated Emission

- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 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 emissions.
- Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- 5. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
- 6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
- 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.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.

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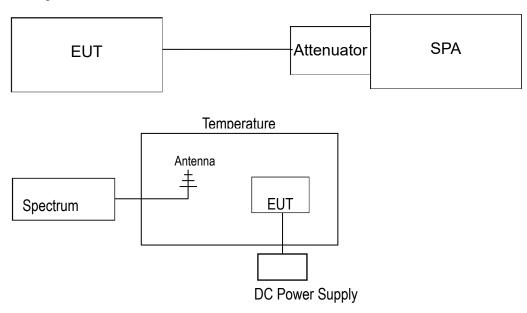


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- 10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 11. Repeat above procedures until all default test channel measured were complete.

9.3 Test Setup

9.3.1 Duty Factor



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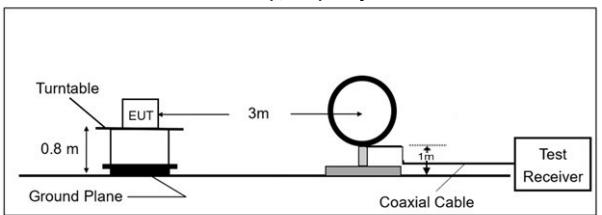
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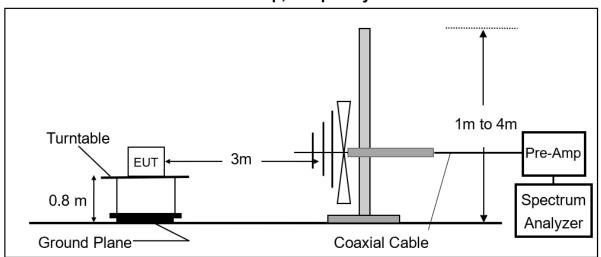
Page: 19 of 40



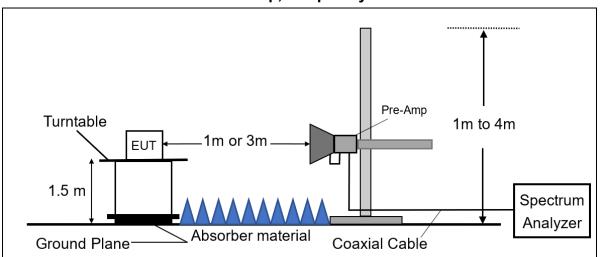
9.3.2 Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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9.4 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	

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB) Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

9.5 Measurement Result

9.6 Duty Factor:

SRD 2441MHz

Time ON of 100ms: 2.328 ms

Duty Cycle=2.328ms / 100ms= 0.02328

Duty Cycle correction factor=20 LOG 0.02328 = -32.66 dB

100ms



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9.6.1 Field Strength of the Fundamental Signal

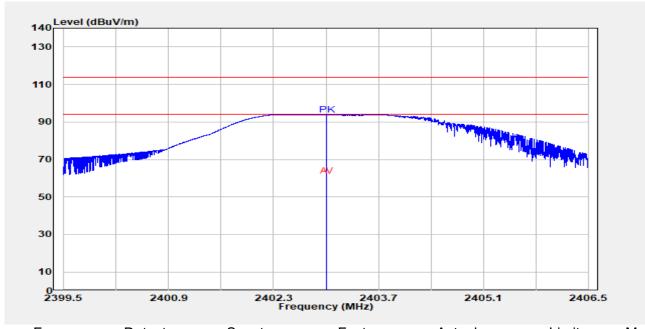
Report Number :TERF2406001605ER Test Site :SAC 3

Operation Mode :SRD Test Date :2024-06-12

Test Frequency :2403 MHz Temp./Humi. :23.6°C/64%

Test Mode :Main Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Nick Lin



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
Peak Average	98.51 -	-4.66 -	93.85 61.19	114.00 94.00	-20.15 -32.81
	Mode PK/QP/AV Peak	Mode Reading Level PK/QP/AV dBμV Peak 98.51	Mode Reading Level PK/QP/AV dBμV dB Peak 98.51 -4.66	Mode Reading Level FS PK/QP/AV dBμV dB dBμV/m Peak 98.51 -4.66 93.85	Mode PK/QP/AV Reading Level ABμV FS dBμV/m @3m dBμV/m Peak 98.51 -4.66 93.85 114.00

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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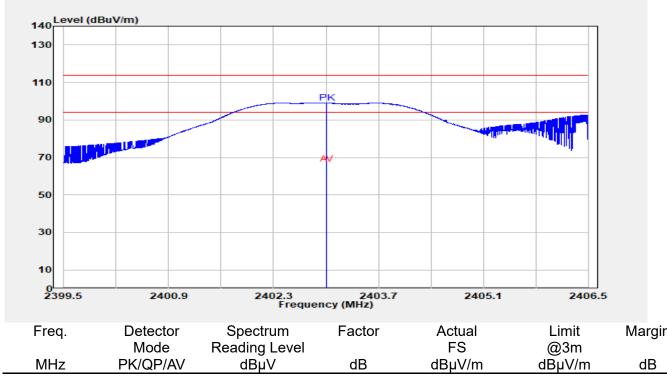
Report Number **Test Site** :SAC 3 :TERF2406001605ER

Operation Mode Test Date :2024-06-12 :SRD

Temp./Humi. :23.6°C/64% **Test Frequency** :2403 MHz

Test Mode :Main Antenna Pol. :Horizontal

Engineer **EUT Pol** :E2 Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2403.00 2403.00	Peak Average	103.65	-4.66 -	98.99 66.33	114.00 94.00	-15.01 -27.67
2403.00	Average	-	-	00.55	94.00	-27.07

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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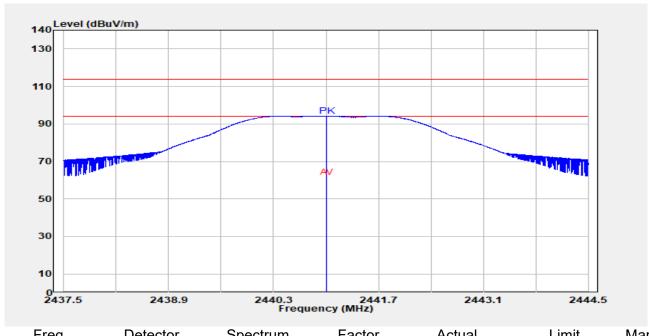
Report Number Test Site :SAC 3 :TERF2406001605ER

Operation Mode Test Date :2024-06-12 :SRD

Temp./Humi. :23.6°C/64% **Test Frequency** :2441 MHz

Test Mode :Main Antenna Pol. :Vertical

Engineer **EUT Pol** :E2 Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2441.00 2441.00	Peak Average	99.06	-4.85 -	94.21 61.55	114.00 94.00	-19.79 -32.45
2111.00	, worage			01.00	01.00	02.10

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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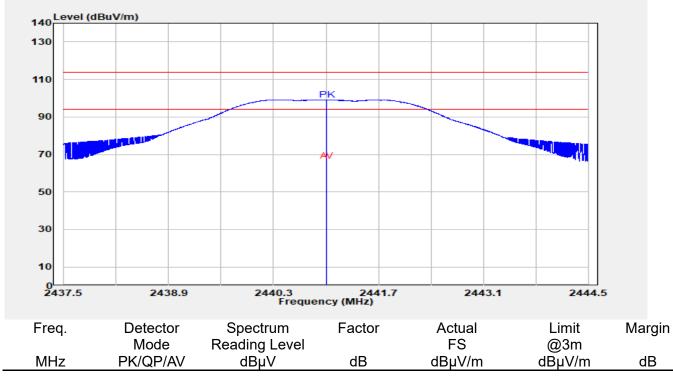
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Operation Mode Test Date :2024-06-12 :SRD

Temp./Humi. :23.6°C/64% **Test Frequency** :2441 MHz

Test Mode :Main Antenna Pol. :Horizontal

Engineer **EUT Pol** :E2 Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2441.00 2441.00	Peak Average	104.05 -	-4.85 -	99.20 66.54	114.00 94.00	-14.80 -27.46

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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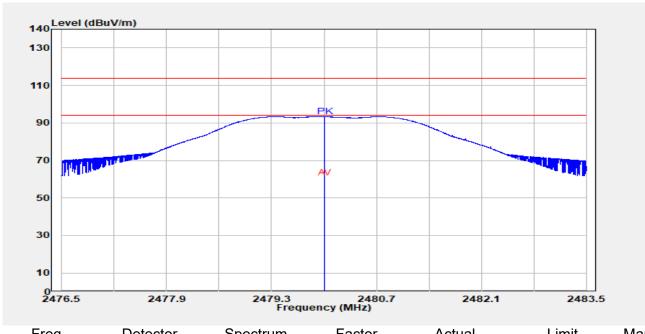
Report Number Test Site :SAC 3 :TERF2406001605ER

Operation Mode :SRD **Test Date** :2024-06-12

Temp./Humi. :23.6°C/64% **Test Frequency** :2480 MHz

Test Mode :Main Antenna Pol. :Vertical

Engineer **EUT Pol** :E2 Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2480.00 2480.00	Peak	98.13	-4.85	93.28 60.62	114.00 94.00	-20.72 -33.38
2400.00	Average	-	-	00.02	94.00	-33.30

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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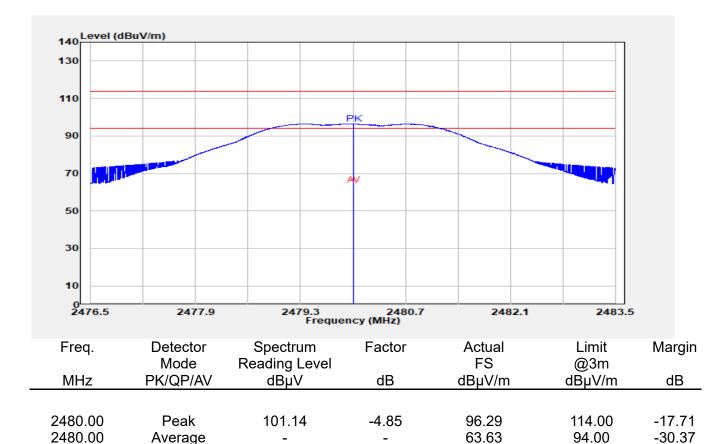
Test Site :SAC 3 Report Number :TERF2406001605ER

Operation Mode Test Date :2024-06-12 :SRD

Test Frequency :2480 MHz Temp./Humi. :23.6°C/64%

Test Mode :Main Antenna Pol. :Horizontal

Engineer **EUT Pol** :E2 Plane :Nick Lin



Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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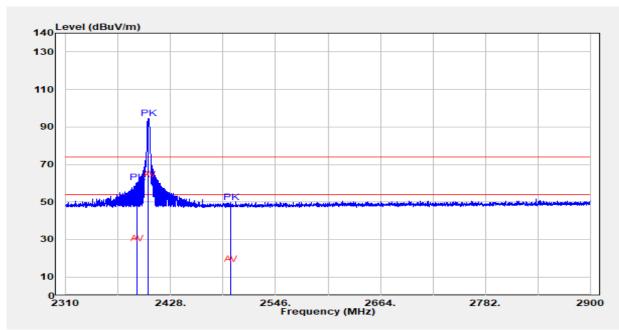
9.6.2 Restricted bands around fundamental frequency

Report Number :TERF2406001605ER Test Site :SAC 3

Operation Mode :SRD Test Date :2024-06-12 Test Frequency :2403 MHz Temp./Humi. :23.6℃/64%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2389.87	Peak	65.02	-4.63	60.39	74.00	-13.61
2389.87	Average	-	-	27.73	54.00	-26.27
2403.00	Peak	99.14	-4.66	94.48	-	-
2403.00	Average	-	-	61.82	-	-
2495.32	Peak	54.35	-4.83	49.52	74.00	-24.48
2495.32	Average	-	-	16.86	54.00	-37.14

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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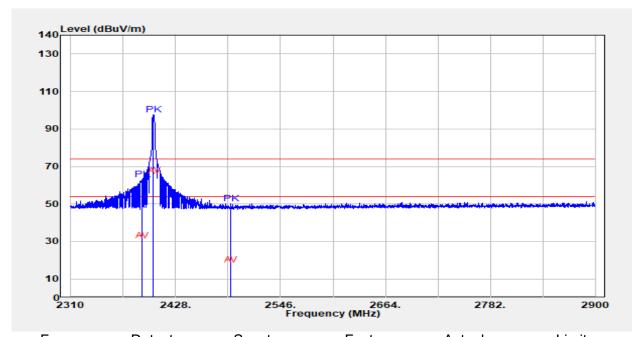
Report Number **Test Site** :SAC 3 :TERF2406001605ER

Operation Mode Test Date :2024-06-12 :SRD

Temp./Humi. :23.6°C/64% **Test Frequency** :2403 MHz

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2389.87	Peak	67.59	-4.63	62.96	74.00	-11.04
2389.87	Average	-	-	30.30	54.00	-23.70
2403.00	Peak	102.15	-4.66	97.49	-	-
2403.00	Average	-	-	64.83	-	-
2489.62	Peak	54.96	-4.84	50.12	74.00	-23.88
2489.62	Average	-	-	17.46	54.00	-36.54

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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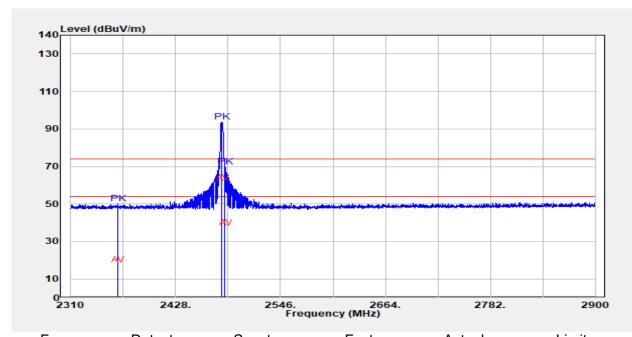
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Report Number Test Site :SAC 3 :TERF2406001605ER

Operation Mode Test Date :2024-06-12 :SRD

Temp./Humi. :23.6°C/64% **Test Frequency** :2480 MHz

Test Mode :Bandedge Antenna Pol. :Vertical **EUT Pol** :E2 Plane Engineer :Nick Lin



	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
_							
	2362.92	Peak	54.74	-4.58	50.16	74.00	-23.84
	2362.92	Average	-	-	17.50	54.00	-36.50
	2480.00	Peak	98.41	-4.85	93.56	-	-
	2480.00	Average	-	-	60.90	-	-
	2483.52	Peak	74.52	-4.85	69.67	74.00	-4.33
	2483.52	Average	-	-	37.01	54.00	-16.99

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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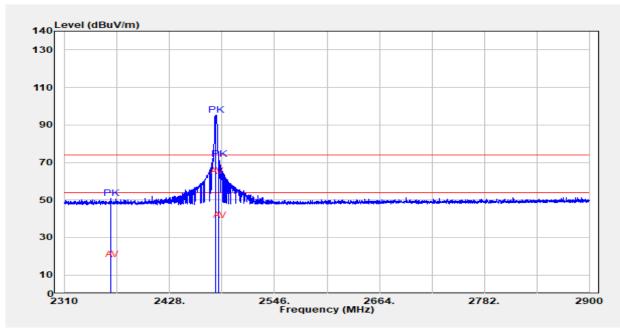
Report Number :TERF2406001605ER Test Site :SAC 3

Operation Mode :SRD Test Date :2024-06-12

Test Frequency :2480 MHz Temp./Humi. :23.6℃/64%

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
2361.94	Peak	55.34	-4.57	50.77	74.00	-23.23
2361.94	Average	-	-	18.11	54.00	-35.89
2480.00	Peak	99.94	-4.85	95.09	-	-
2480.00	Average	-	-	62.43	-	-
2483.52	Peak	76.54	-4.85	71.69	74.00	-2.31
2483.52	Average	-	-	39.03	54.00	-14.97

Average Duty Cycle Factor=-32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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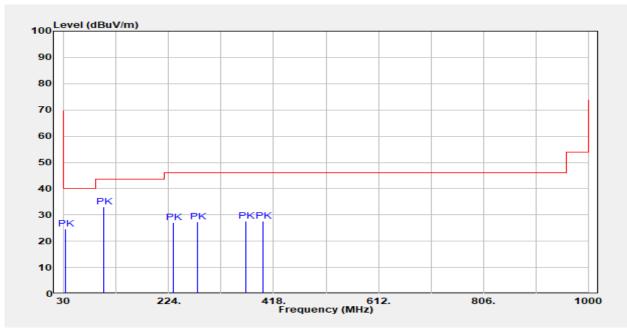
Radiated Spurious Emission Measurement Result

Report Number :TERF2406001605ER **Test Site** :SAC 3

Operation Mode :SRD **Test Date** :2024-06-12 **Test Frequency** :2441 MHz Temp./Humi. :23.6°C/64%

Test Mode Antenna Pol. :Vertical :Tx

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
32.91	Peak	34.60	-9.92	24.68	40.00	-15.32
103.72	Peak	45.50	-12.48	33.02	43.50	-10.48
232.73	Peak	36.69	-9.51	27.18	46.00	-18.82
276.38	Peak	34.95	-7.69	27.26	46.00	-18.74
366.59	Peak	33.47	-5.70	27.77	46.00	-18.23
398.60	Peak	32.63	-5.12	27.51	46.00	-18.49

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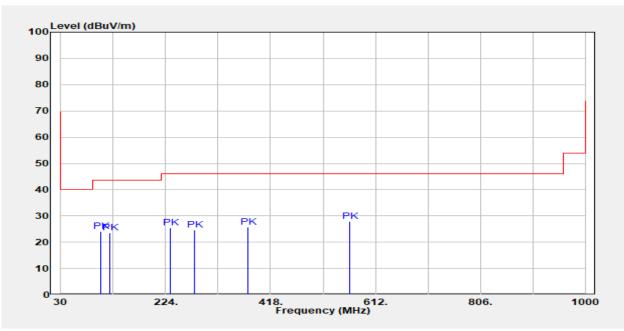
Report Number :TERF2406001605ER Test Site :SAC 3

Operation Mode :SRD Test Date :2024-06-12

Test Frequency :2441 MHz Temp./Humi. :23.6°C/64%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
103.72	Peak	36.66	-12.48	24.18	43.50	-19.32
120.21	Peak	34.18	-10.61	23.57	43.50	-19.93
232.73	Peak	35.08	-9.51	25.57	46.00	-20.43
276.38	Peak	32.42	-7.69	24.73	46.00	-21.27
375.32	Peak	31.16	-5.53	25.63	46.00	-20.37
563.50	Peak	30.12	-2.10	28.02	46.00	-17.98

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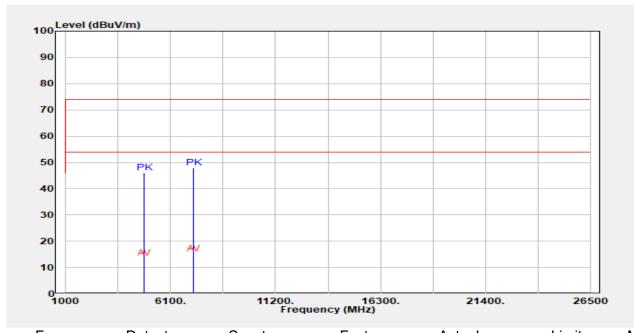
Report Number :TERF2406001605ER Test Site :SAC 3

Operation Mode :SRD Test Date :2024-06-12

Test Frequency :2403 MHz Temp./Humi. :23.6°C/64%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4806.00	Peak	45.78	0.36	46.14	74.00	-27.86
4806.00	Average	-	-	13.48	54.00	-40.52
7209.00	Peak	42.51	5.43	47.94	74.00	-26.06
7209.00	Average	-	-	15.28	54.00	-38.72

Average Duty Cycle Factor= -32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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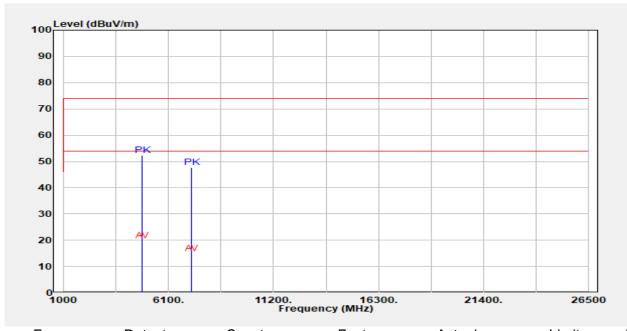
Report Number :TERF2406001605ER Test Site :SAC 3

Operation Mode :SRD Test Date :2024-06-12

Test Frequency :2403 MHz Temp./Humi. :23.6°C/64%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBμV/m	dB
4806.00	Peak	52.07	0.36	52.43	74.00	-21.57
4806.00	Average	-	-	19.77	54.00	-34.23
7209.00	Peak	42.24	5.43	47.67	74.00	-26.33
7209.00	Average	-	-	15.01	54.00	-38.99

Average Duty Cycle Factor= -32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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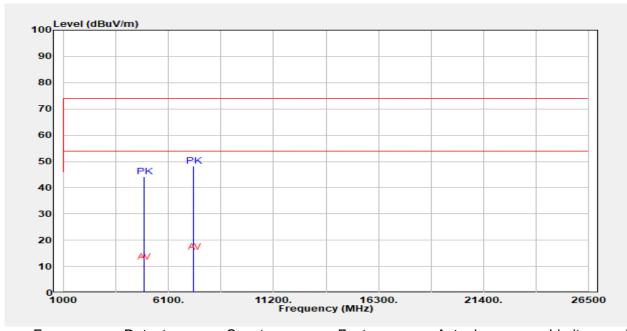
Report Number :TERF2406001605ER Test Site :SAC 3

Operation Mode :SRD Test Date :2024-06-12

Test Frequency :2441 MHz Temp./Humi. :23.6°C/64%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4882.00	Peak	44.21	0.06	44.27	74.00	-29.73
4882.00	Average	-	-	11.61	54.00	-42.39
7323.00	Peak	42.38	5.77	48.15	74.00	-25.85
7323.00	Average	-	-	15.49	54.00	-38.51

Average Duty Cycle Factor= -32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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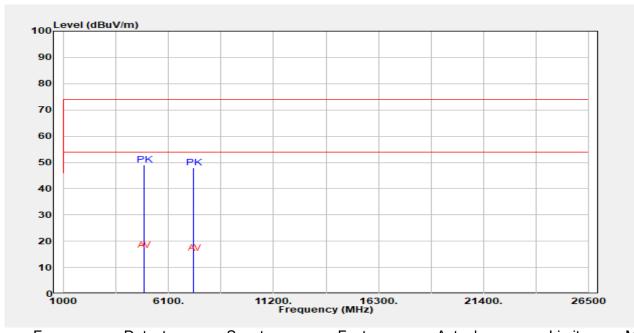
Report Number :TERF2406001605ER Test Site :SAC 3

Operation Mode :SRD Test Date :2024-06-12

Test Frequency :2441 MHz Temp./Humi. :23.6°C/64%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4882.00	Peak	49.08	0.06	49.14	74.00	-24.86
4882.00	Average	-	-	16.48	54.00	-37.52
7323.00	Peak	42.21	5.77	47.98	74.00	-26.02
7323.00	Average	-	-	15.32	54.00	-38.68

Average Duty Cycle Factor= -32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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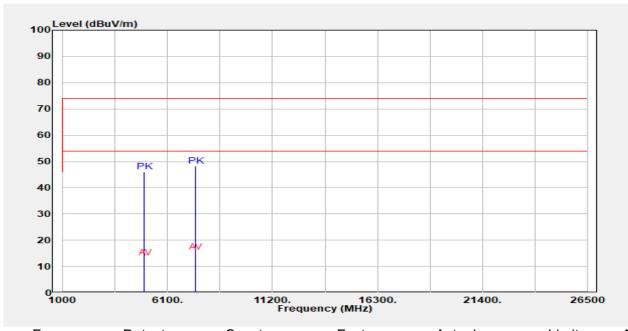
Report Number Test Site :SAC 3 :TERF2406001605ER

Operation Mode **Test Date** :2024-06-12 :SRD

Test Frequency :2480 MHz Temp./Humi. :23.6°C/64%

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :E2 Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.00	Peak	45.73	0.21	45.94	74.00	-28.06
4960.00	Average	-	-	13.28	54.00	-40.72
7440.00	Peak	42.39	5.73	48.12	74.00	-25.88
7440.00	Average	-	-	15.46	54.00	-38.54

Average Duty Cycle Factor= -32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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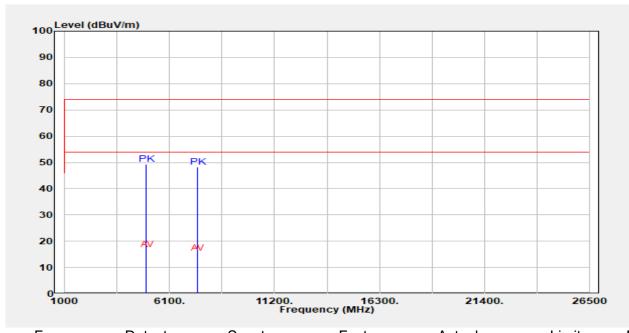
Report Number Test Site :SAC 3 :TERF2406001605ER

Operation Mode Test Date :2024-06-12 :SRD

Test Frequency :2480 MHz Temp./Humi. :23.6°C/64%

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :E2 Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4960.00	Peak	49.19	0.21	49.40	74.00	-24.60
4960.00	Average	-	-	16.74	54.00	-37.26
7440.00	Peak	42.39	5.73	48.12	74.00	-25.88
7440.00	Average	-	-	15.46	54.00	-38.54

Average Duty Cycle Factor= -32.66 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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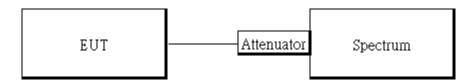
10 EMISSION BANDWIDTH

10.1 **Applicable Standard**

§2.1049 (h) & 15.215(c)

Intentional radiators operating under the alternative provisions to the general emis-(c) sion limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

10.1 **Test Setup**



10.2 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as

RBW=1% of the approximate emission bandwidth,

VBW = 3 times RBW.

Span= 2 to 5 times of the OBW.

Sweep=auto

Detector = Peak, and Max hold

Turn on the -20 dB Bandwidth function, max reading.

10.3 Measurement Results:

N/A

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11 ANTENNA REQUIREMENT

Standard Applicable:

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

Antenna Connected Construction: 11.2

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

~ End of Report ~

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