

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**EUT Description** Wireless Electronic Dropper  
**Applicant:** Kind Shock Hi-Tech Co., Ltd.  
No. 298, Anxin 2nd Rd., Annan Dist., Tainan City 709, Taiwan  
(R.O.C.)  
**Manufacturer:** Atech OEM Inc.  
7F,AAEON Building, No.43,Sec.4,Keelung Rd., Taipei City  
10607,Taiwan R.O.C  
**Brand Name:** Kind Shock  
**Model No.:** Rage Circuit  
**Report Number:** TERF2503000857ER  
**FCC ID** 2BM6NKSC298  
**Date of EUT Received:** March 4, 2025  
**Date of Test:** March 6, 2025 ~ May 23, 2025  
**Issue Date:** May 26, 2025

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 §15.249.

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
TERF2503000857ER	00	Original	May 2, 2025	Candice Li	
TERF2503000857ER	01	Modify Date of Test. Add the descriptions and data of 20dB BW in sections 2.5, 2.6, 3, 5 and 10.	May 26, 2025	Candice Li	*

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.
- 2、Variant information of main & alternate battery sources is provided by the applicant. Test results of this report are applicable to the sample EUT(s) received.

	1st	2nd
Battery	Brand: GLOSO CO., LTD. Model No.: LP802030-2S Manufacturer: GLOSO CO., LTD.	Brand: BERON ENERGY Model No.: PA122-03B Manufacturer: Guangdong Beron Energy Technology Co., Ltd.
Note	AC 7.4V 450mAh	AC 7.4V 400mAh

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## 1 GENERAL INFORMATION

### 1.1 Product Description

EUT Description	Wireless Electronic Dropper
Brand Name:	Kind Shock
Model No.:	Rage Circuit
Hardware Version:	V1.0
Firmware Version:	V1.0
EUT Series No.:	N/A
Power Supply:	7.4 Vdc from Rechargeable Lithium Ion Battery 5 Vdc from Circuit Battery Charger
Test Software (Name/Version)	PuTTY to command

### 1.2 RF Specification

Radio Technology:	2.4GHz Short Range Radio
Frequency Range:	2423 – 2463MHz
Channel number:	5 Channels
Modulation type:	GFSK
Transmit Power:	82.69 dBuV/m at 3m (Peak) 82.34 dBuV/m at 3m (Avg)

### 1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Monopole	2400~2483	3.1

**Note:** Antenna information is provided by the applicant.

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## 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.249  
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 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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## 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 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 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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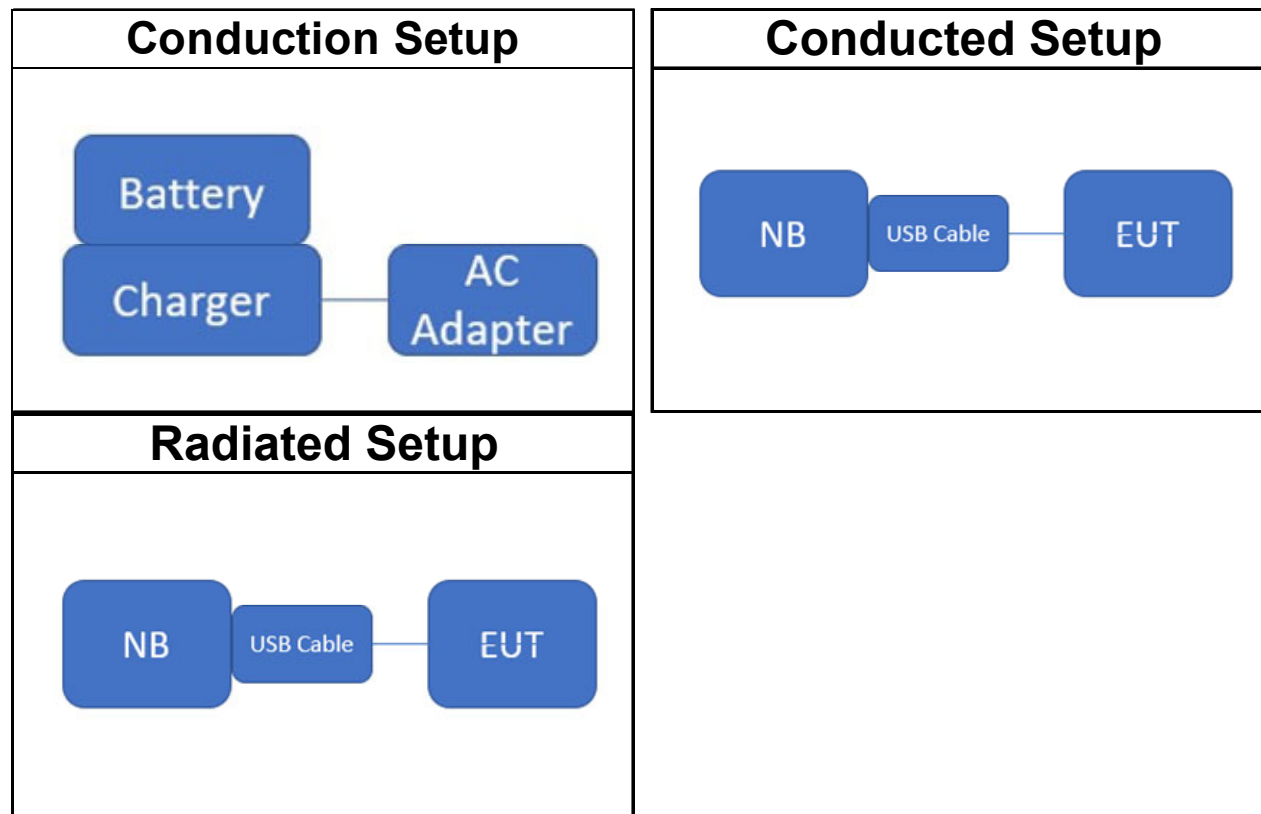
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## 2.5 Test Configuration



## 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)
TYPE-C USB Cable	SUNCA	1Q12508231-KS	N/A	N/A	N/A
Charger	Atech	Circuit Charger	N/A	N/A	N/A
AC Adapter	Apple	A1385	N/A	N/A	N/A

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	FTDI	CH340	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X45	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)
USB Cable	FTDI	CH340	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X45	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
§15.205 §15.249(a)(e) §15.209	Radiated Emission	Compliant
§15.215(c)	Emission Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

Channel	Frequency
23	2423
25	2425
43	2443
50	2450
63	2463

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## 5 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.

CONDUCTED TEST		
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)
SRD	2423 to 2463	2423,2443,2463

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)		
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)
SRD	2423 to 2463	2443

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)		
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)
SRD	2423 to 2463	2423,2443,2463

**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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## 6 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted 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			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 dB	140GHz-220GHz

### Note:

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

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## 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. (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

### 7.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/08/2024	07/07/2025

### 7.3 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 +SUCOFLEX 104PEA +EMC107-SM-SM-1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4P EA+221106+76096/6 )	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 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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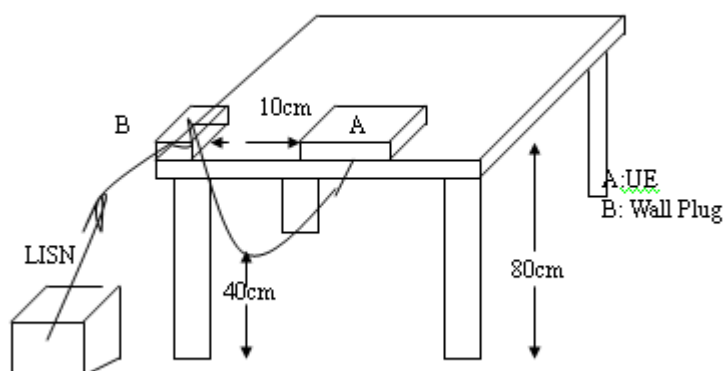
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Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

## 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



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#### 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.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

#### 8.5 Measurement Result:

Note1: Refer to next page for measurement data and plots.

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

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2503000857ER

Test Site :Conduction 1

Operation Mode :Charger mode

Test Date :2025-04-15

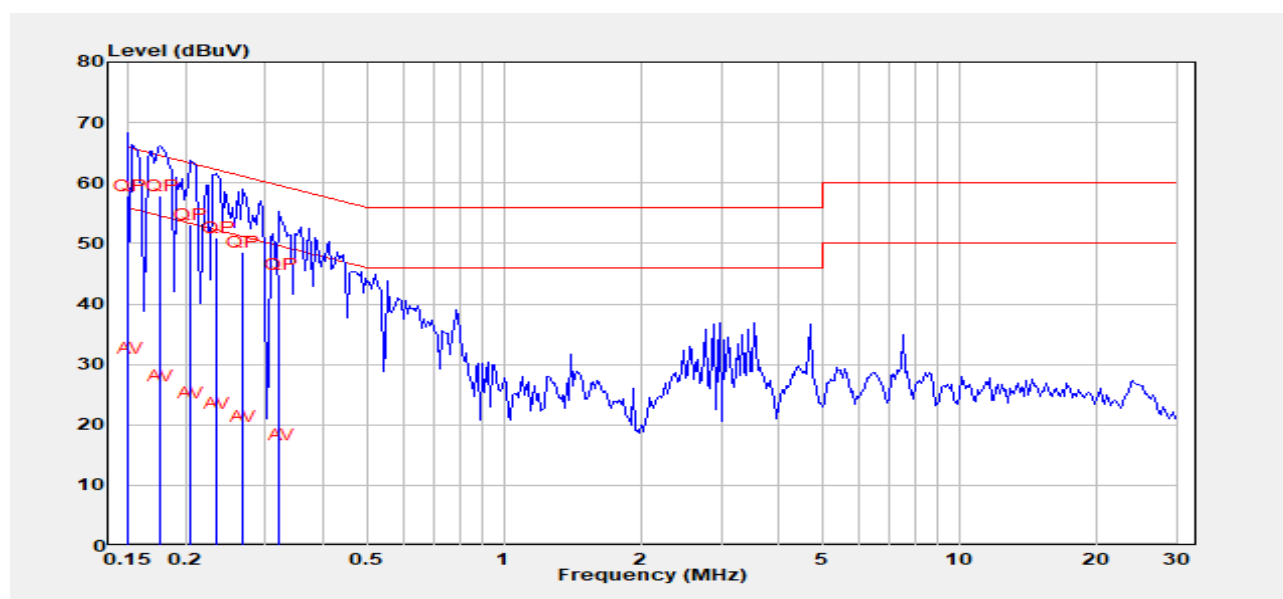
Power :120V/60Hz

Temp./Humi. :23.5°C/55%

Probe :L

Engineer :Nick Lin

Note: :1st Battery + Charger



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.150	Average	20.83	10.13	30.96	56.00	-25.04
0.150	QP	47.79	10.13	57.92	66.00	-8.08
0.176	Average	16.34	10.13	26.47	54.68	-28.21
0.176	QP	47.73	10.13	57.86	64.68	-6.82
0.204	Average	13.55	10.13	23.68	53.45	-29.77
0.204	QP	43.02	10.13	53.15	63.45	-10.30
0.234	Average	11.72	10.13	21.85	52.30	-30.45
0.234	QP	40.79	10.13	50.92	62.30	-11.38
0.266	Average	9.63	10.14	19.77	51.25	-31.48
0.266	QP	38.44	10.14	48.58	61.25	-12.67
0.322	Average	6.63	10.14	16.77	49.66	-32.89
0.322	QP	34.67	10.14	44.81	59.66	-14.85

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Report Number :TERF2503000857ER

Test Site :Conduction 1

Operation Mode :Charger mode

Test Date :2025-04-15

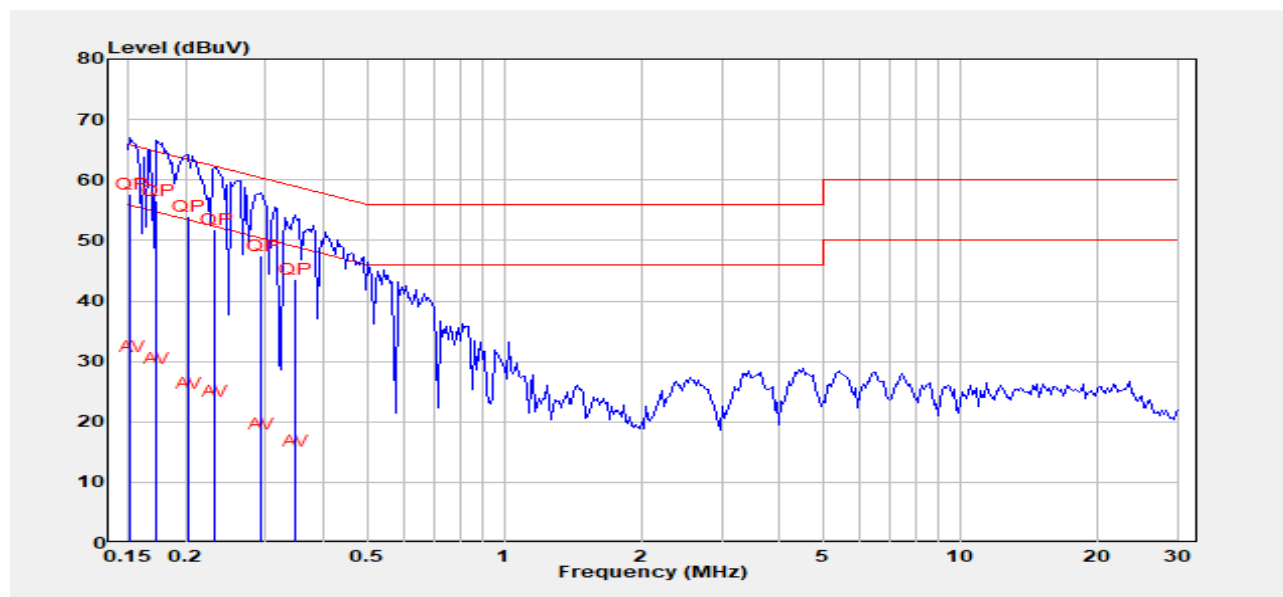
Power :120V/60Hz

Temp./Humi. :23.5°C/55%

Probe :N

Engineer :Nick Lin

Note: :1st Battery + Charger



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV	Limit dBuV	Margin dB
0.152	Average	20.72	10.12	30.84	55.91	-25.07
0.152	QP	47.54	10.12	57.66	65.91	-8.25
0.172	Average	18.73	10.12	28.85	54.86	-26.01
0.172	QP	46.57	10.12	56.69	64.86	-8.17
0.202	Average	14.54	10.12	24.66	53.54	-28.88
0.202	QP	43.83	10.12	53.95	63.54	-9.59
0.232	Average	13.32	10.13	23.45	52.39	-28.95
0.232	QP	41.68	10.13	51.81	62.39	-10.59
0.292	Average	7.81	10.14	17.95	50.46	-32.51
0.292	QP	37.37	10.14	47.51	60.46	-12.95
0.346	Average	4.93	10.14	15.07	49.05	-33.97
0.346	QP	33.48	10.14	43.62	59.05	-15.42

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Report Number :TERF2503000857ER

Operation Mode :Charger mode

Power :120V/60Hz

Probe :L

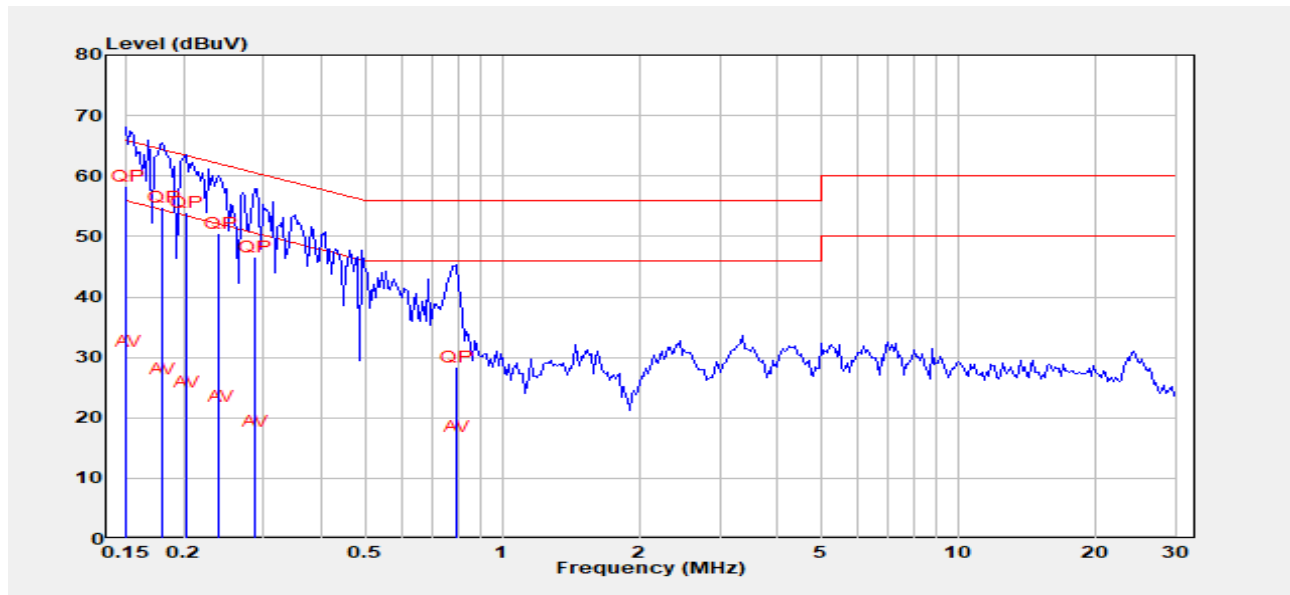
Note: :2nd Battery + Charger

Test Site :Conduction 1

Test Date :2025-04-15

Temp./Humi. :23.5°C/55%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV	Limit dBuV	Margin dB
0.150	Average	20.81	10.13	30.94	56.00	-25.06
0.150	QP	48.22	10.13	58.35	66.00	-7.65
0.180	Average	16.24	10.13	26.37	54.50	-28.13
0.180	QP	44.77	10.13	54.90	64.50	-9.60
0.202	Average	14.17	10.13	24.30	53.54	-29.24
0.202	QP	43.77	10.13	53.90	63.54	-9.64
0.239	Average	11.68	10.14	21.82	52.13	-30.31
0.239	QP	40.38	10.14	50.52	62.13	-11.61
0.286	Average	7.71	10.14	17.85	50.63	-32.78
0.286	QP	36.49	10.14	46.63	60.63	-14.00
0.792	Average	6.68	10.19	16.87	46.00	-29.13
0.792	QP	18.19	10.19	28.38	56.00	-27.62

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Report Number :TERF2503000857ER

Operation Mode :Charger mode

Power :120V/60Hz

Probe :N

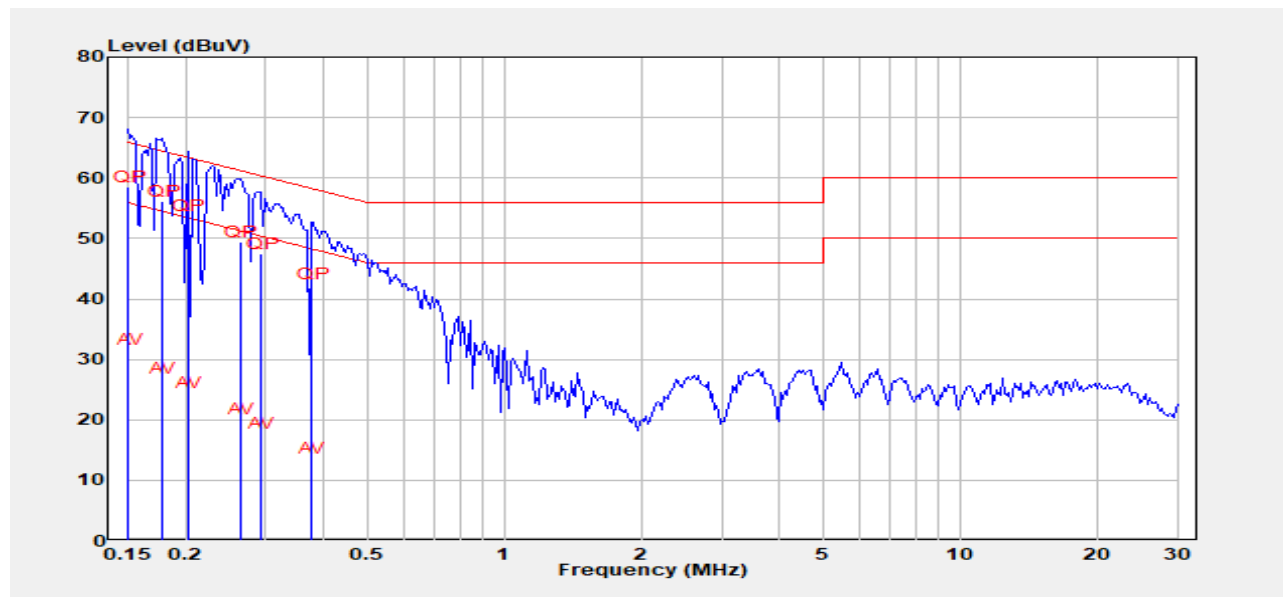
Note: :2nd Battery + Charger

Test Site :Conduction 1

Test Date :2025-04-15

Temp./Humi. :23.5°C/55%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV	Limit dBuV	Margin dB
0.150	Average	21.54	10.12	31.66	56.00	-24.34
0.150	QP	48.33	10.12	58.45	66.00	-7.55
0.178	Average	16.82	10.12	26.94	54.59	-27.65
0.178	QP	46.02	10.12	56.14	64.59	-8.45
0.202	Average	14.33	10.12	24.45	53.54	-29.09
0.202	QP	43.68	10.12	53.80	63.54	-9.74
0.263	Average	10.03	10.13	20.16	51.34	-31.17
0.263	QP	39.27	10.13	49.40	61.34	-11.93
0.292	Average	7.63	10.14	17.77	50.46	-32.69
0.292	QP	37.28	10.14	47.42	60.46	-13.04
0.377	Average	3.44	10.15	13.59	48.34	-34.76
0.377	QP	32.28	10.15	42.43	58.34	-15.92

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## 9 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 Radiated Emission

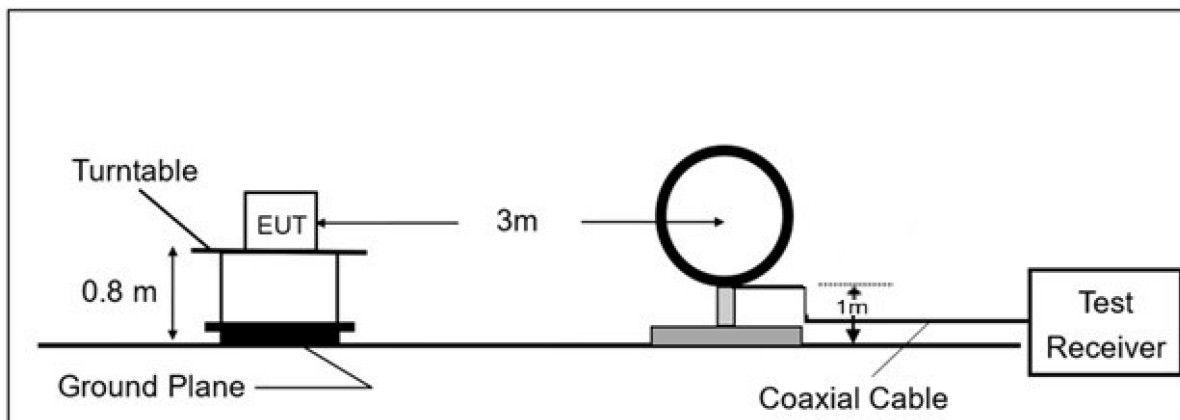
1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. 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.
7. 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.
8. 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
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.

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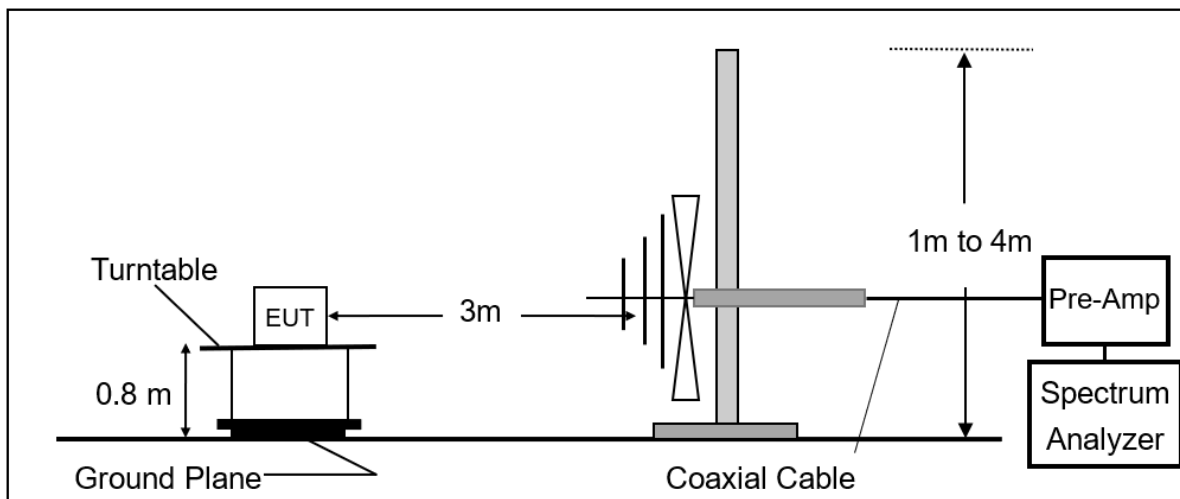
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## 9.3 Test Setup

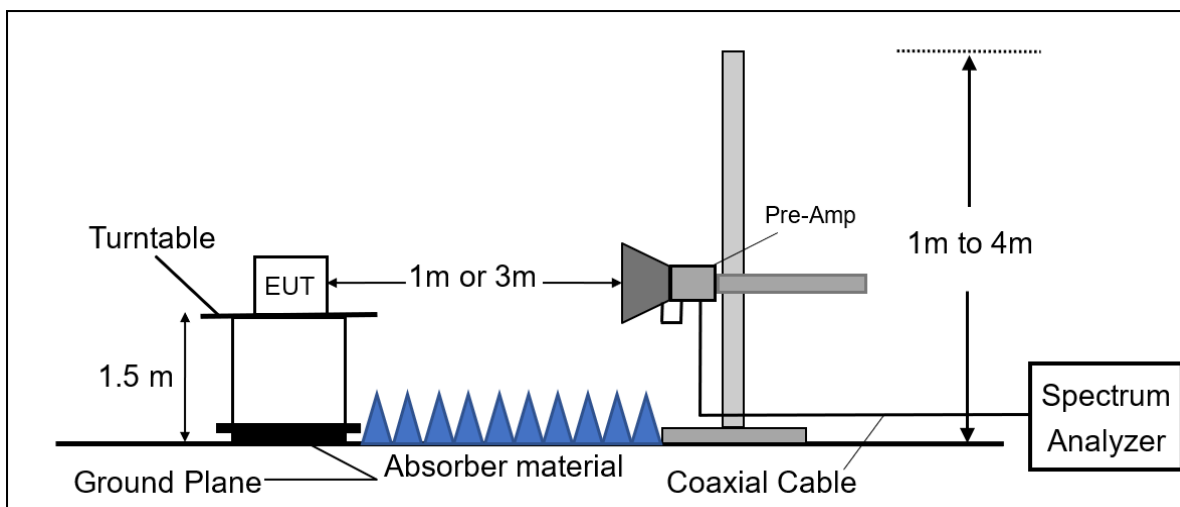
### 9.3.1 Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



### 9.3.3 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(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

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[www.sgs.com.tw](http://www.sgs.com.tw)

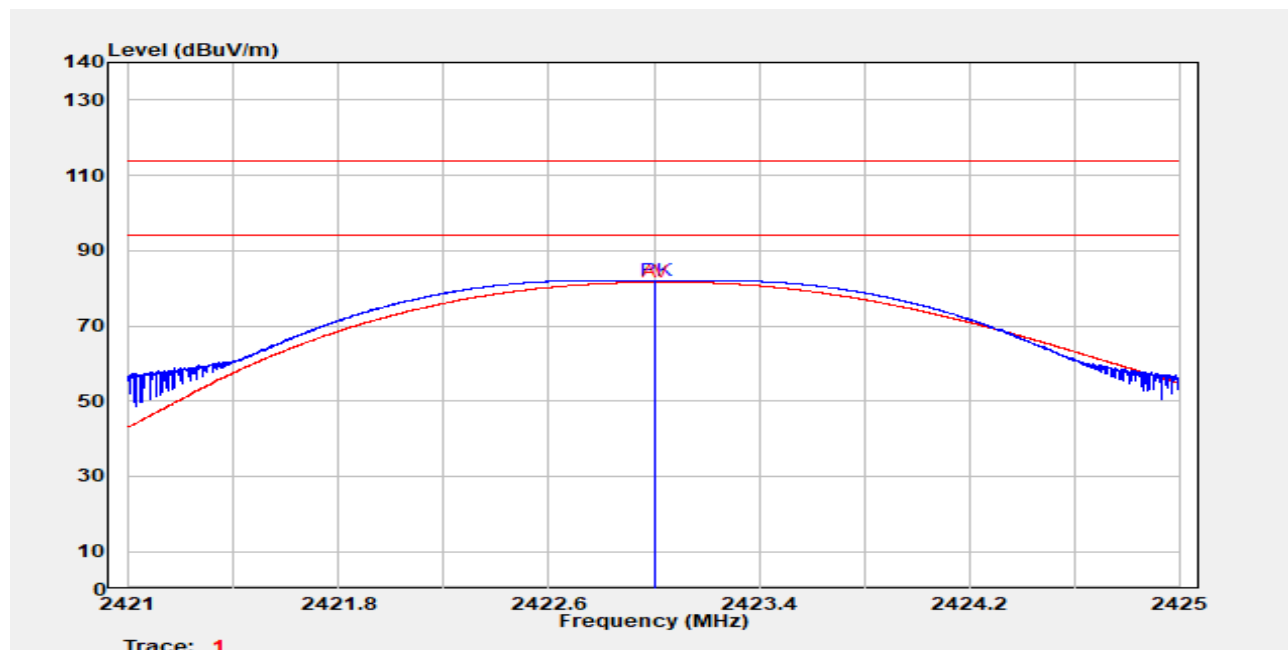
Member of SGS Group

## 9.5 Measurement Result

### 9.5.1 Field Strength of the Fundamental Signal

Report Number :TERF2503000857ER  
 Operation Mode :SRD  
 Test Frequency :2423  
 Test Mode :Main  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-04-15  
 Temp./Humi. :22.7°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



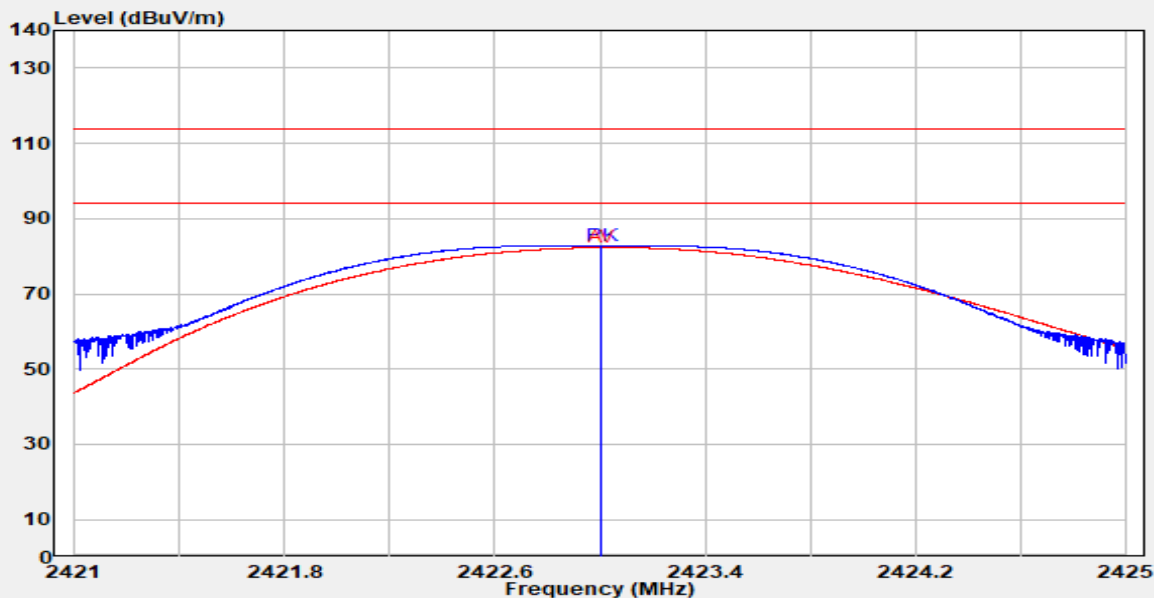
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2423.00	Peak	86.63	-4.61	82.02	114.00	-31.98
2423.00	Average	86.29	-4.61	81.68	94.00	-12.32

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2423  
Test Mode :Main  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-15  
Temp./Humi. :22.7°C/59%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2423.00	Peak	87.30	-4.61	82.69	114.00	-31.31
2423.00	Average	86.95	-4.61	82.34	94.00	-11.66

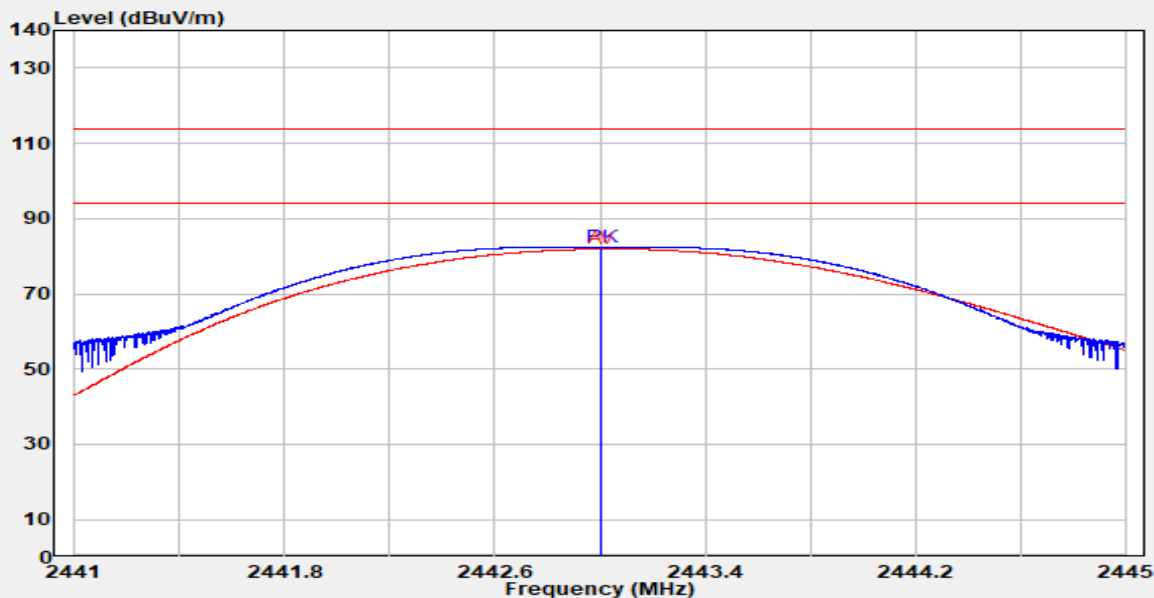
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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2443  
Test Mode :Main  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-15  
Temp./Humi. :22.7°C/59%  
Antenna Pol. :Vertical  
Engineer :Nick Lin



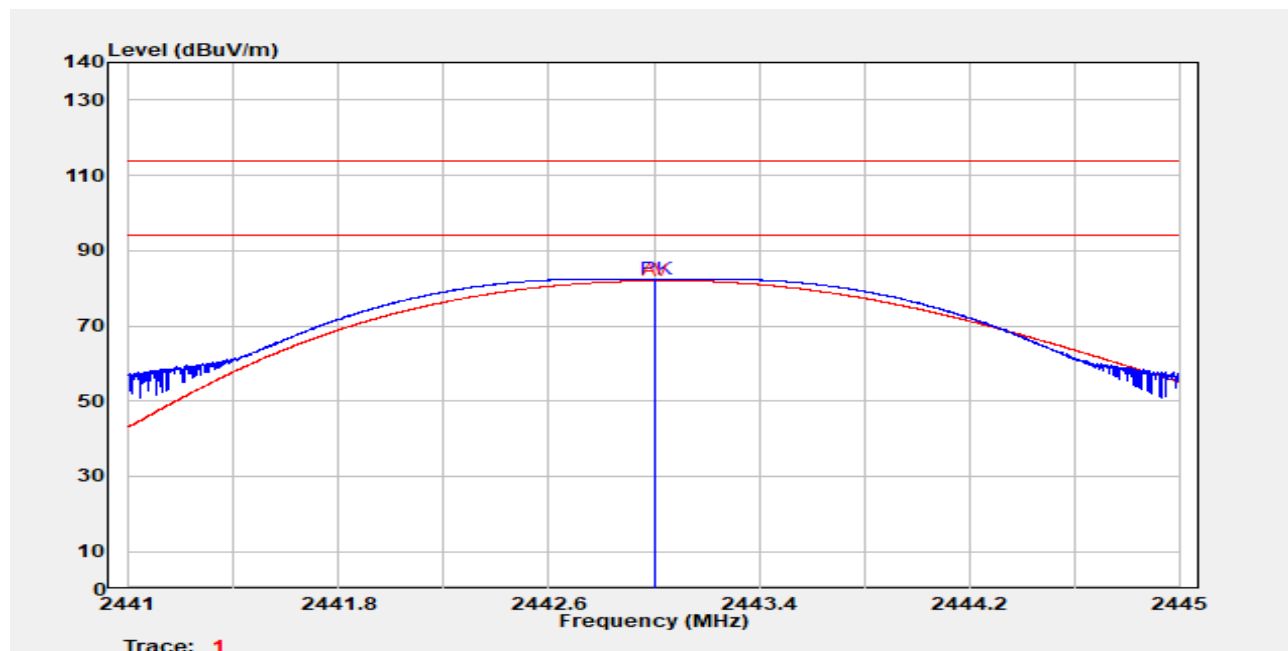
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2443.00	Peak	86.98	-4.68	82.30	114.00	-31.70
2443.00	Average	86.62	-4.68	81.94	94.00	-12.06

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2443  
Test Mode :Main  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-15  
Temp./Humi. :22.7°C/59%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



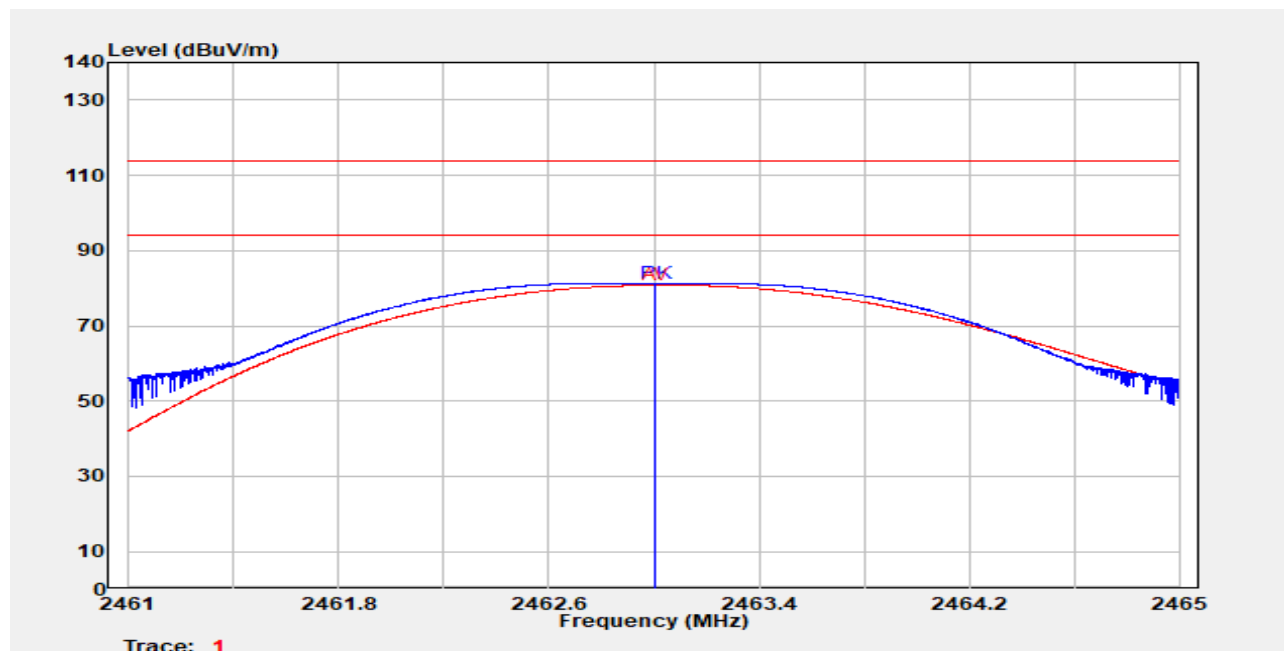
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2443.00	Peak	87.07	-4.68	82.39	114.00	-31.61
2443.00	Average	86.70	-4.68	82.02	94.00	-11.98

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2463  
Test Mode :Main  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-15  
Temp./Humi. :22.7°C/59%  
Antenna Pol. :Vertical  
Engineer :Nick Lin



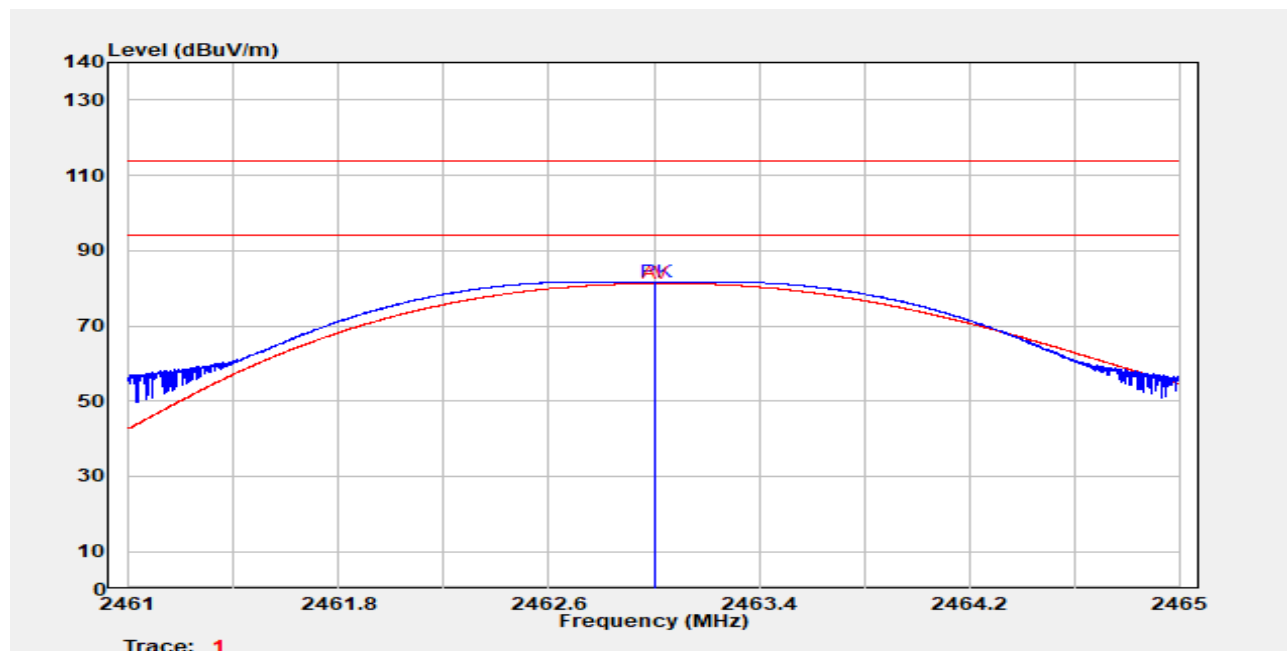
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2463.00	Peak	85.93	-4.71	81.22	114.00	-32.78
2463.00	Average	85.57	-4.71	80.86	94.00	-13.14

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2463  
Test Mode :Main  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-15  
Temp./Humi. :22.7°C/59%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2463.00	Peak	86.42	-4.71	81.71	114.00	-32.29
2463.00	Average	85.99	-4.71	81.28	94.00	-12.72

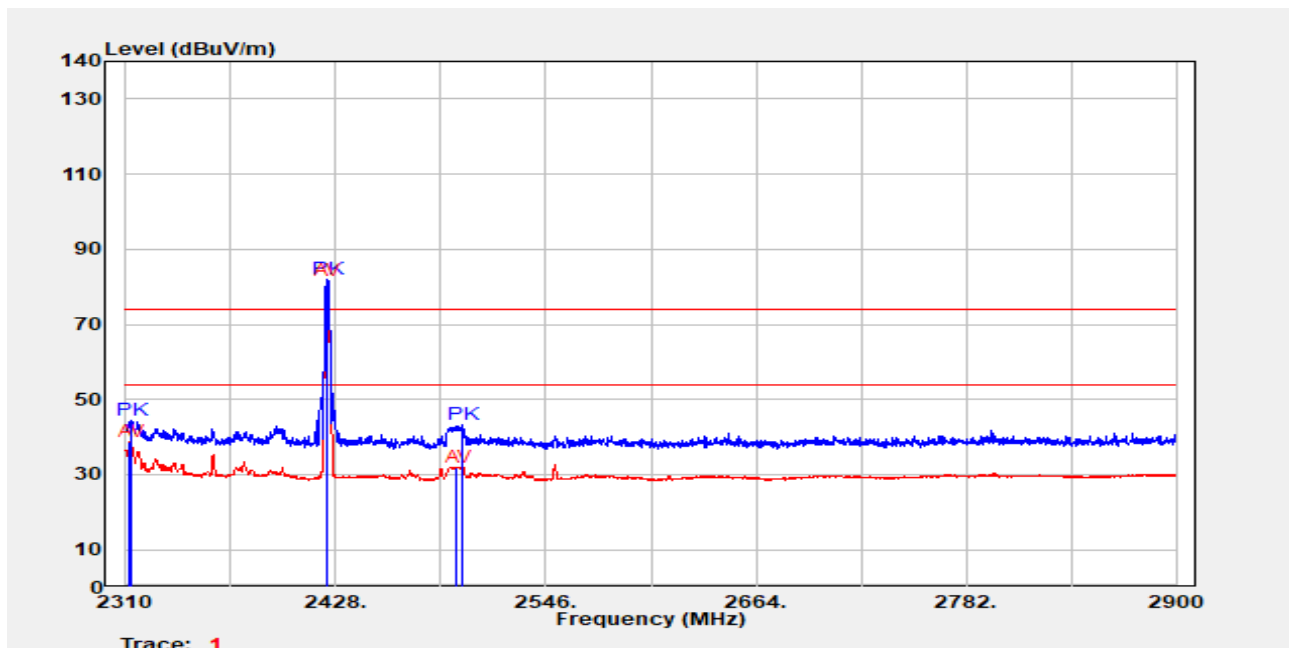
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## 9.5.2 Restricted bands around fundamental frequency

Report Number :TERF2503000857ER  
 Operation Mode :SRD  
 Test Frequency :2423  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-04-15  
 Temp./Humi. :22.7°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



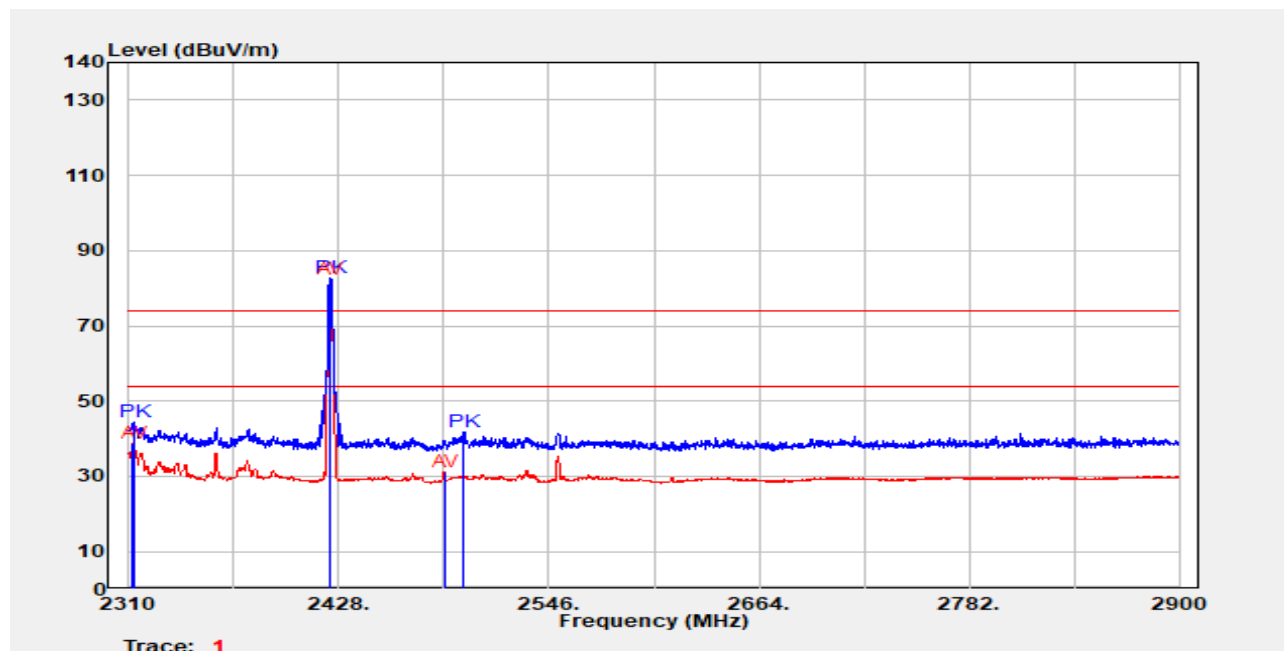
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2312.36	Average	42.99	-4.32	38.67	54.00	-15.33
2312.56	Peak	48.61	-4.33	44.28	74.00	-29.72
2423.00	Peak	86.67	-4.61	82.06	-	-
2423.00	Average	86.23	-4.61	81.62	-	-
2496.11	Average	36.76	-4.71	32.05	54.00	-21.95
2498.67	Peak	48.05	-4.70	43.35	74.00	-30.65

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Report Number :TERF2503000857ER  
 Operation Mode :SRD  
 Test Frequency :2423  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-04-15  
 Temp./Humi. :22.7°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



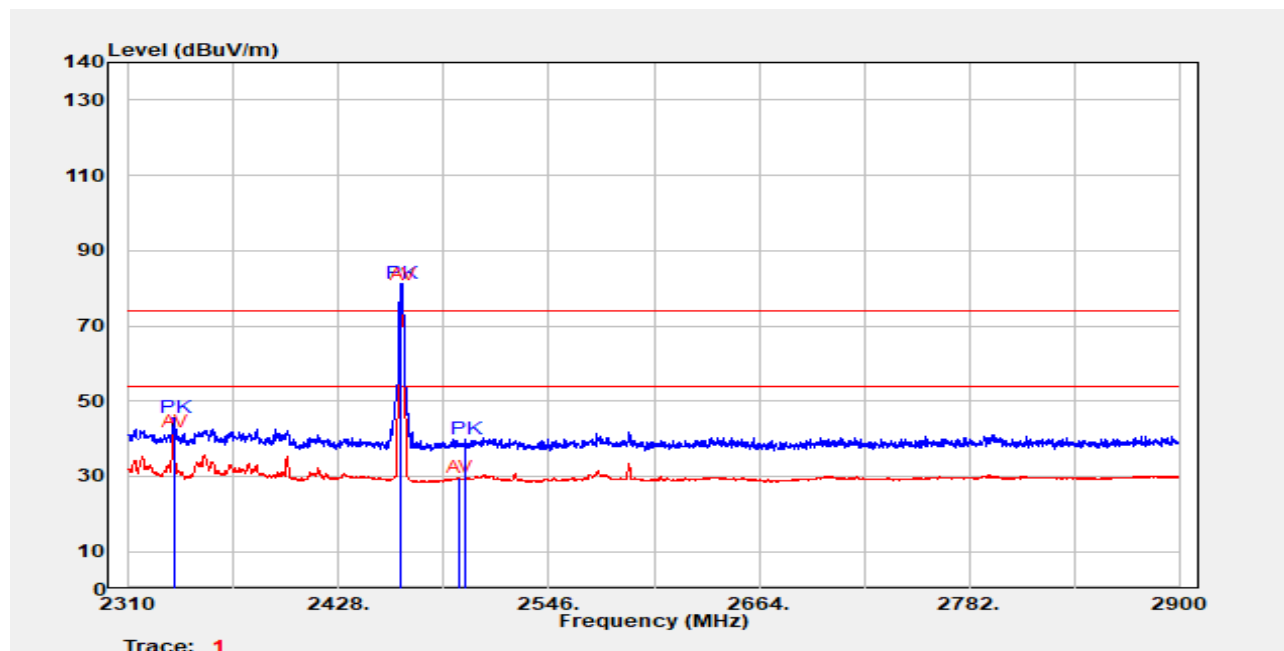
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2312.36	Average	42.98	-4.32	38.66	54.00	-15.34
2313.15	Peak	48.86	-4.33	44.53	74.00	-29.47
2423.00	Peak	87.38	-4.61	82.77	-	-
2423.00	Average	86.89	-4.61	82.28	-	-
2487.06	Average	35.93	-4.71	31.22	54.00	-22.78
2498.27	Peak	46.57	-4.70	41.87	74.00	-32.13

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Report Number :TERF2503000857ER  
 Operation Mode :SRD  
 Test Frequency :2463  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-04-15  
 Temp./Humi. :22.7°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



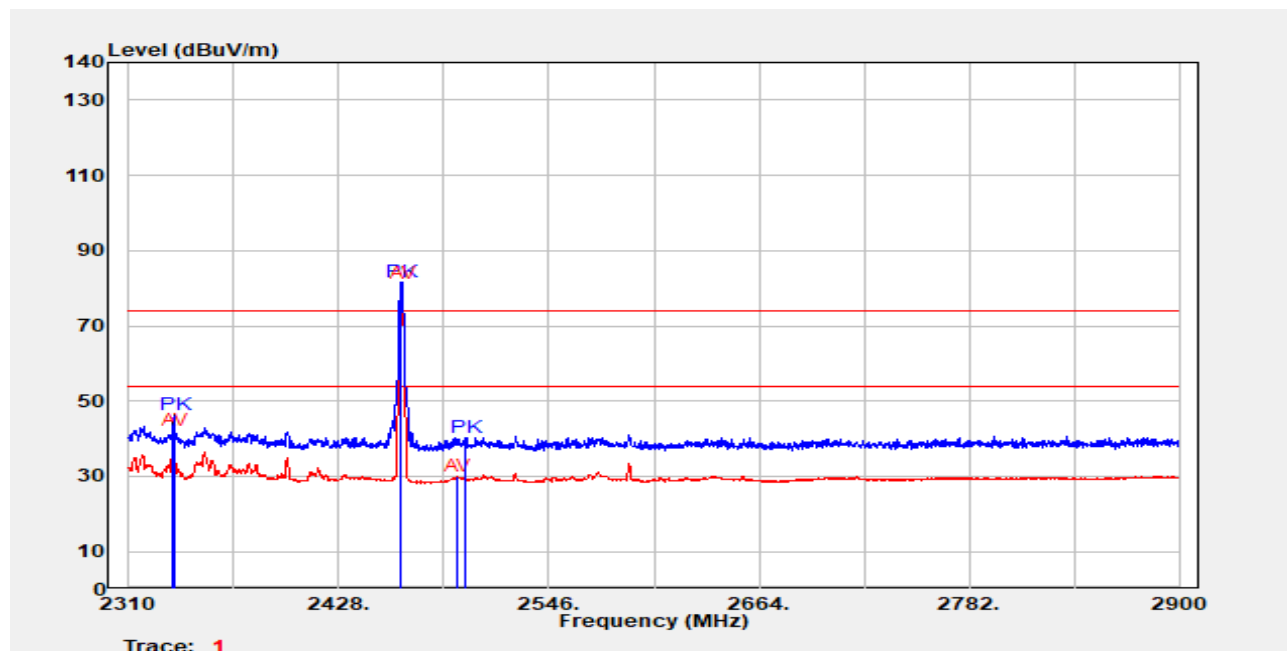
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2335.18	Average	45.95	-4.39	41.56	54.00	-12.44
2335.38	Peak	50.08	-4.39	45.69	74.00	-28.31
2463.00	Peak	85.97	-4.71	81.26	-	-
2463.00	Average	85.57	-4.71	80.86	-	-
2495.32	Average	34.33	-4.71	29.62	54.00	-24.38
2498.86	Peak	44.50	-4.70	39.80	74.00	-34.20

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2463  
Test Mode :Bandedge  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-15  
Temp./Humi. :22.7°C/59%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2334.99	Average	46.36	-4.38	41.98	54.00	-12.02
2335.38	Peak	50.54	-4.39	46.15	74.00	-27.85
2463.00	Peak	86.43	-4.71	81.72	-	-
2463.00	Average	85.97	-4.71	81.26	-	-
2494.54	Average	34.53	-4.70	29.83	54.00	-24.17
2499.45	Peak	44.89	-4.70	40.19	74.00	-33.81

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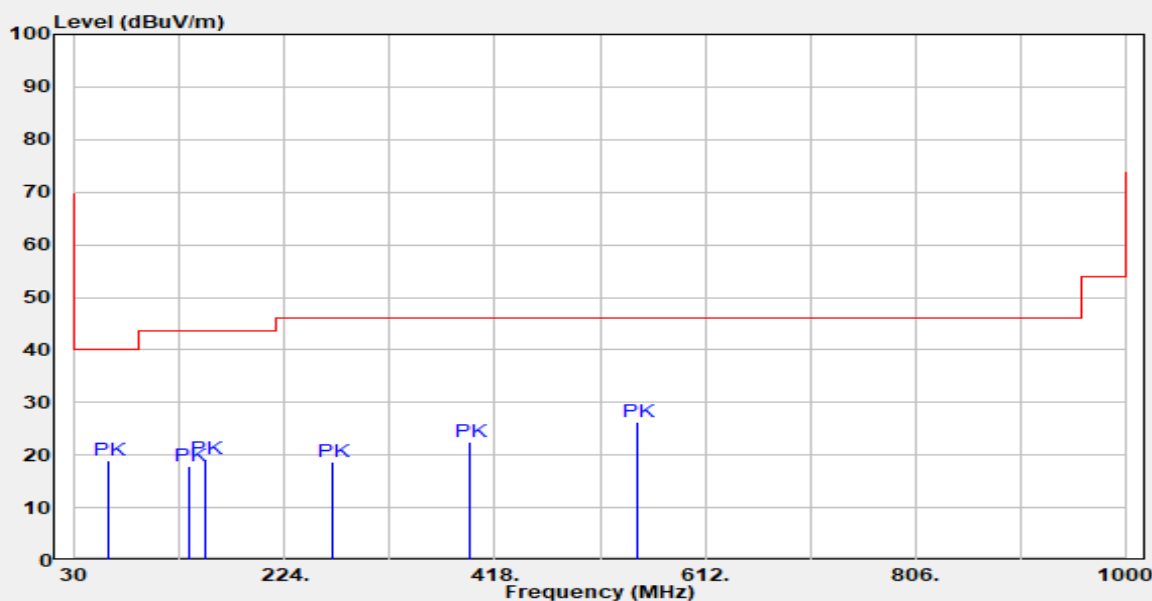
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## 9.5.3 Radiated Spurious Emission Measurement Result

Report Number :TERF2503000857ER  
 Operation Mode :SRD  
 Test Frequency :2443  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-04-15  
 Temp./Humi. :22.7°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



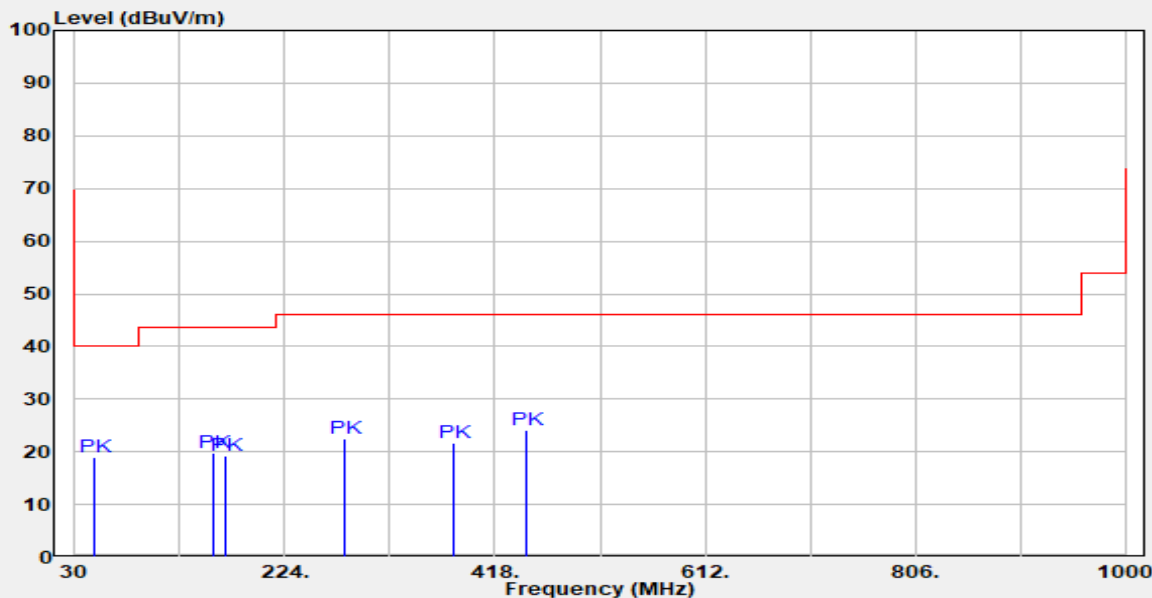
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
61.04	Peak	28.09	-9.18	18.91	40.00	-21.09
135.73	Peak	27.21	-9.34	17.87	43.50	-25.63
151.25	Peak	27.46	-8.21	19.25	43.50	-24.25
267.65	Peak	26.55	-7.98	18.57	46.00	-27.43
394.72	Peak	27.85	-5.33	22.52	46.00	-23.48
549.92	Peak	28.74	-2.57	26.17	46.00	-19.83

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Report Number :TERF2503000857ER  
 Operation Mode :SRD  
 Test Frequency :2443  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-04-15  
 Temp./Humi. :22.7°C/59%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



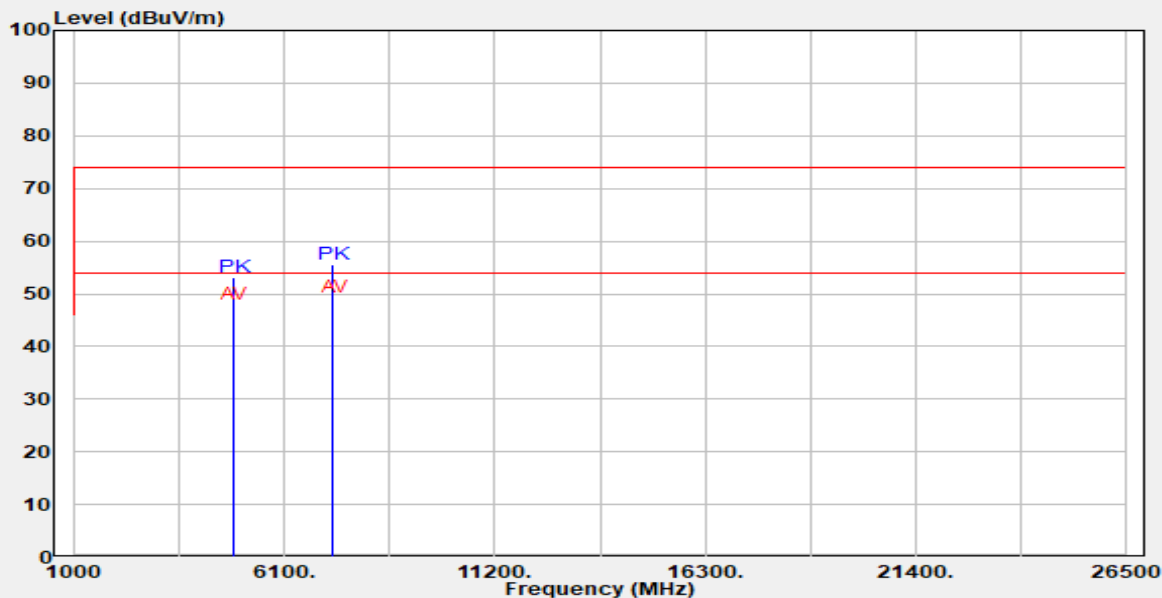
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
47.46	Peak	27.78	-8.77	19.01	40.00	-20.99
157.07	Peak	27.96	-8.20	19.76	43.50	-23.74
168.71	Peak	27.94	-8.74	19.20	43.50	-24.30
279.29	Peak	29.95	-7.57	22.38	46.00	-23.62
379.20	Peak	27.21	-5.59	21.62	46.00	-24.38
447.10	Peak	28.18	-3.99	24.19	46.00	-21.81

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2423  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-07  
Temp./Humi. :20.5°C/59%  
Antenna Pol. :Vertical  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4846.00	Peak	52.90	0.17	53.07	74.00	-20.93
4846.00	Average	47.82	0.17	47.99	54.00	-6.01
7269.00	Peak	49.99	5.52	55.51	74.00	-18.49
7269.00	Average	43.71	5.52	49.23	54.00	-4.77

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

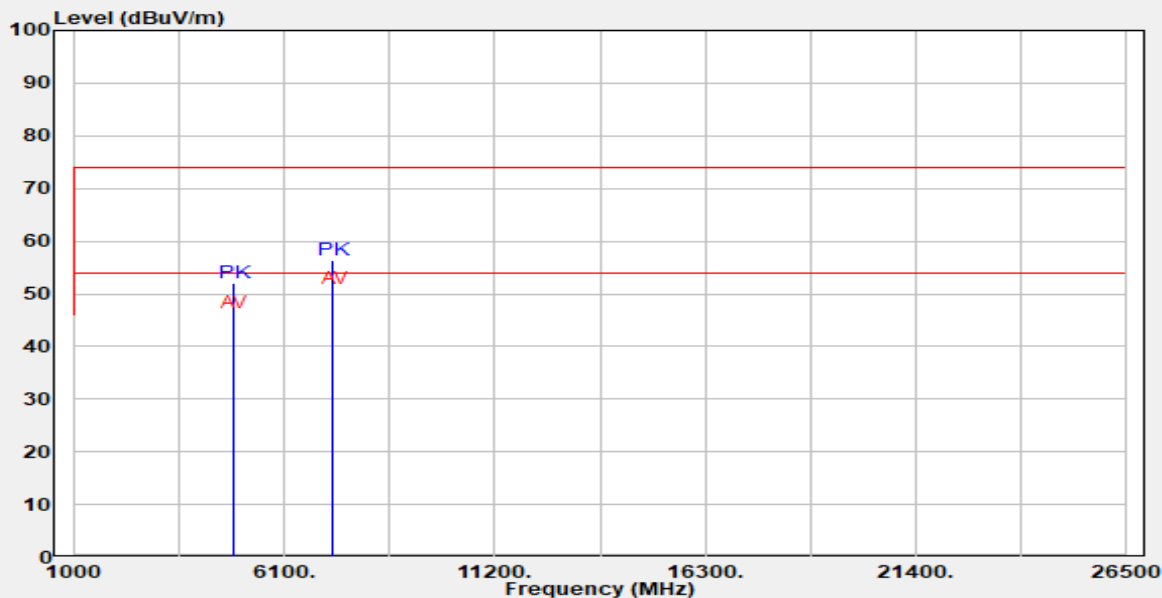
f (886-2) 2298-0488

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2423  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-07  
Temp./Humi. :20.5°C/59%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



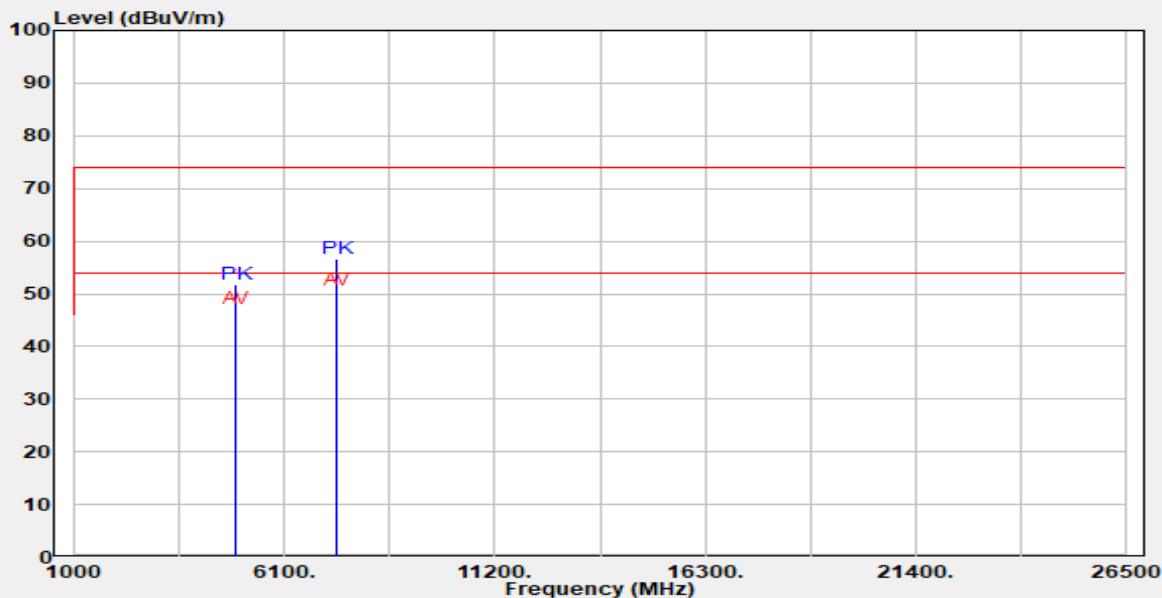
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4846.00	Peak	51.82	0.17	51.99	74.00	-22.01
4846.00	Average	46.15	0.17	46.32	54.00	-7.68
7269.00	Peak	50.96	5.52	56.48	74.00	-17.52
7269.00	Average	45.50	5.52	51.02	54.00	-2.98

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2443  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-07  
Temp./Humi. :20.5°C/59%  
Antenna Pol. :Vertical  
Engineer :Nick Lin



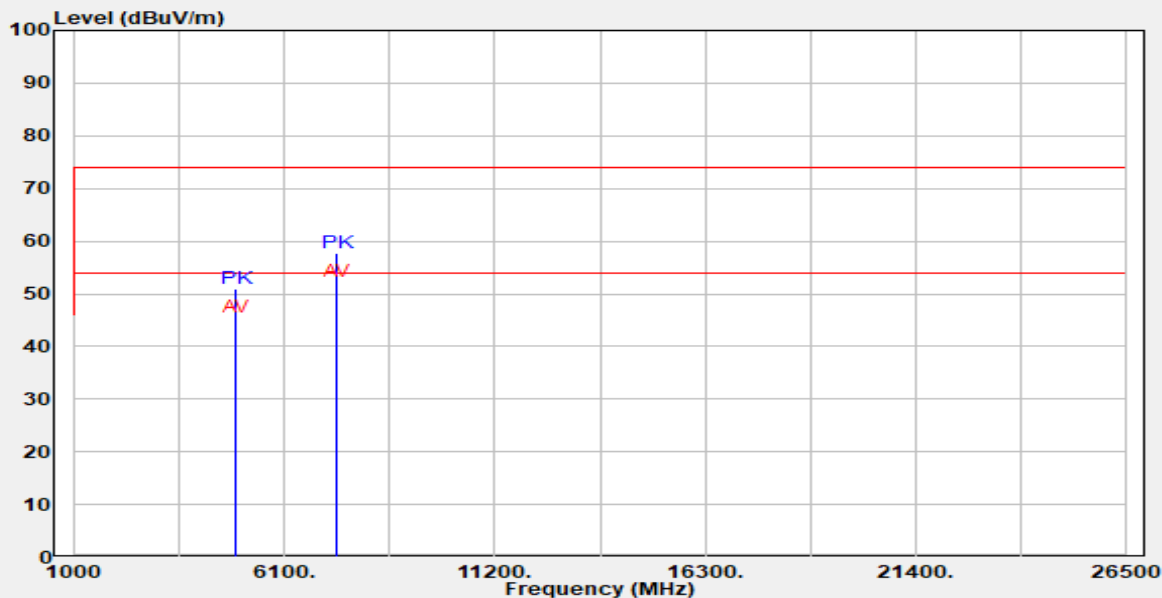
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4886.00	Peak	51.43	0.21	51.64	74.00	-22.36
4886.00	Average	46.86	0.21	47.07	54.00	-6.93
7329.00	Peak	50.97	5.56	56.53	74.00	-17.47
7329.00	Average	45.05	5.56	50.61	54.00	-3.39

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2443  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-07  
Temp./Humi. :20.5°C/59%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



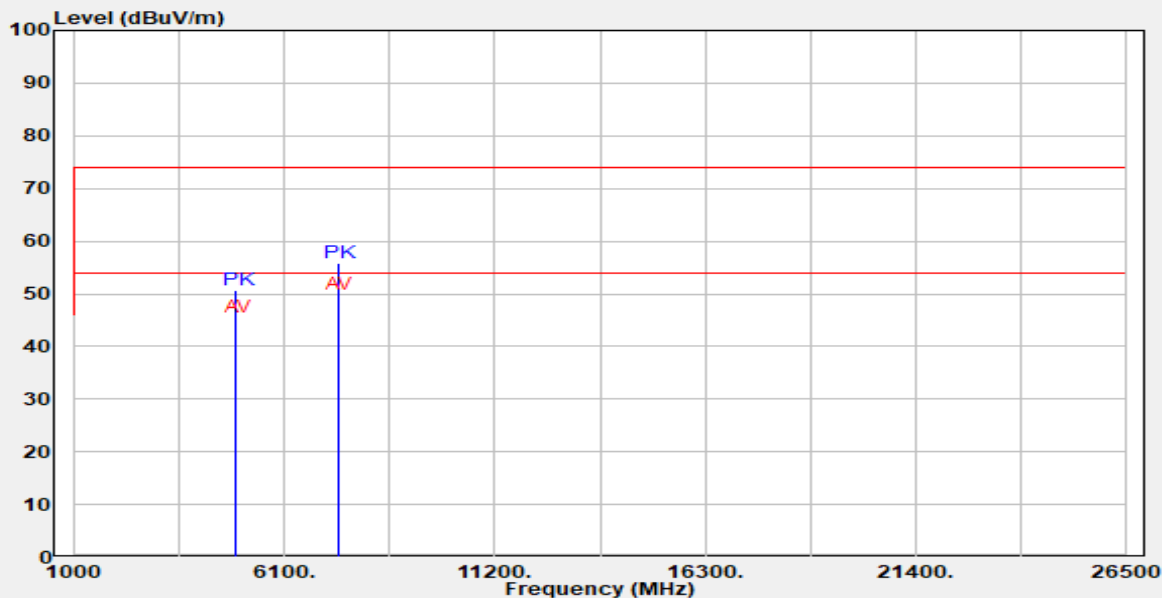
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4886.00	Peak	50.76	0.21	50.97	74.00	-23.03
4886.00	Average	45.41	0.21	45.62	54.00	-8.38
7329.00	Peak	52.19	5.56	57.75	74.00	-16.25
7329.00	Average	46.68	5.56	52.24	54.00	-1.76

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Report Number :TERF2503000857ER  
 Operation Mode :SRD  
 Test Frequency :2463  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-04-07  
 Temp./Humi. :20.5°C/59%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



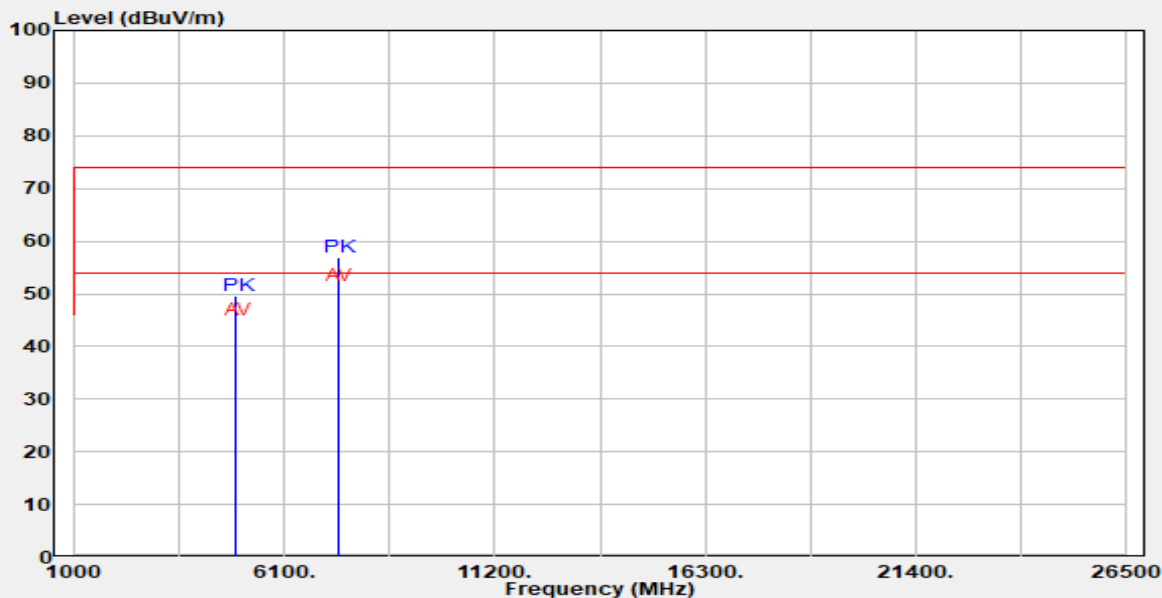
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4926.00	Peak	50.28	0.31	50.59	74.00	-23.41
4926.00	Average	45.24	0.31	45.55	54.00	-8.45
7389.00	Peak	50.38	5.50	55.88	74.00	-18.12
7389.00	Average	44.37	5.50	49.87	54.00	-4.13

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Report Number :TERF2503000857ER  
Operation Mode :SRD  
Test Frequency :2463  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-04-07  
Temp./Humi. :20.5°C/59%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4926.00	Peak	49.25	0.31	49.56	74.00	-24.44
4926.00	Average	44.67	0.31	44.98	54.00	-9.02
7389.00	Peak	51.48	5.50	56.98	74.00	-17.02
7389.00	Average	46.08	5.50	51.58	54.00	-2.42

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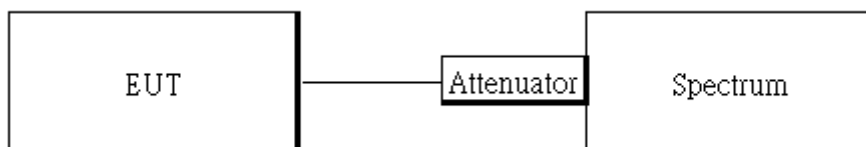


## 10 EMISSION BANDWIDTH MEASUREMENT

### 10.1 Applicable Standard:

The 20 dB and 99% bandwidth shall be specified in operating frequency band.

### 10.2 Test Set-up



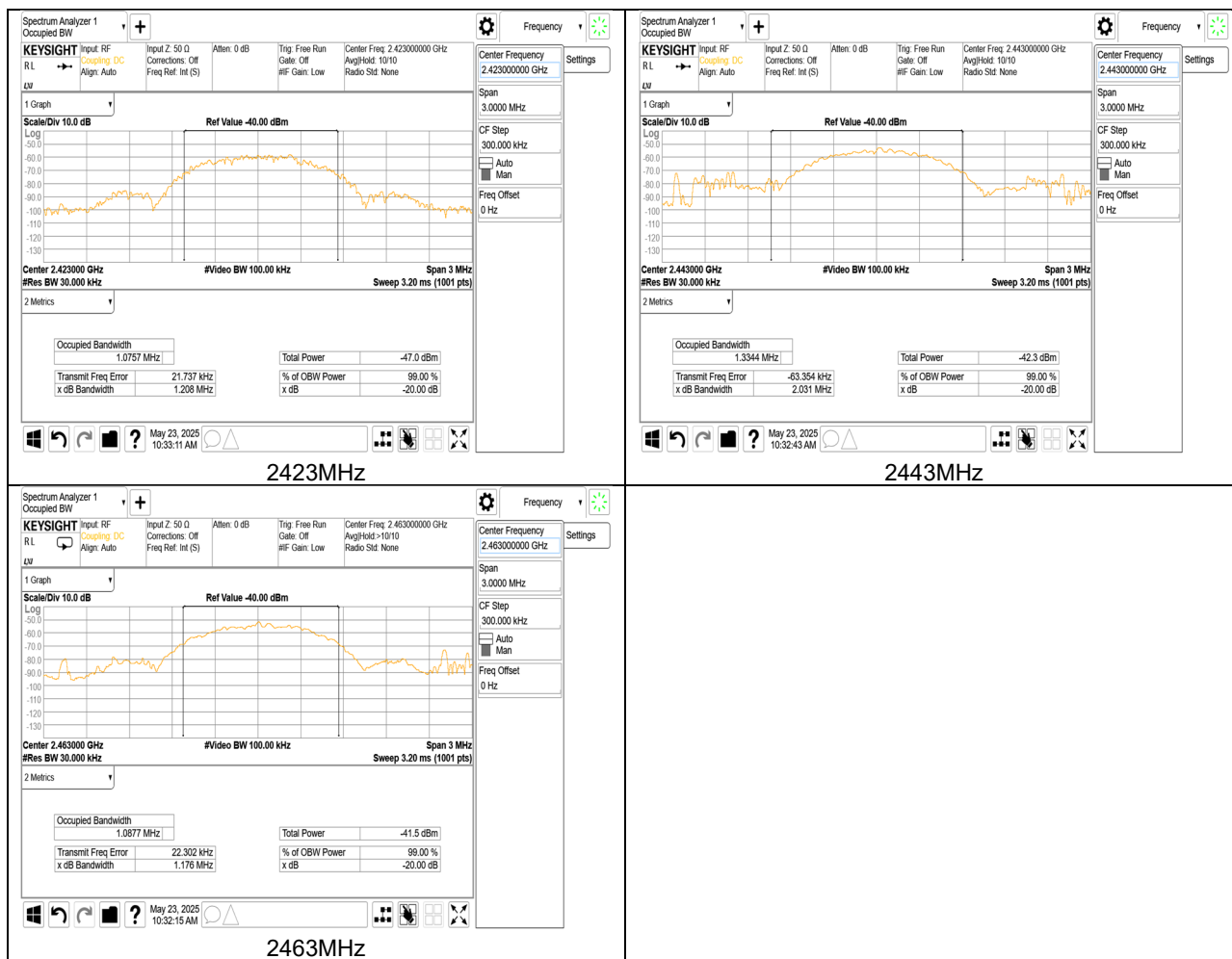
### 10.3 Measurement Procedure

1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. Set SPA Center Frequency = fundamental frequency, RBW=1% to 5% OBW, VBW=3 x RBW, Span = large enough to capture all products of the modulation process.
4. Measured the spectrum width with power higher than 20dB below carrier and turn on the 99% bandwidth function, max reading.

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## 10.4 Measurement Result



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## 11 ANTENNA REQUIREMENT

### 11.1 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.

### 11.2 Antenna Connected Construction:

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

*~ End of Report ~*

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