

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description ALARM.COM VIDEO DOORBELL

FCC Applicant: ALARM.COM INCORPORATED
8281 GREENSBORO DRIVE, SUITE 100. TYSONS, VIRGINIA
22102. USA.

FCC Manufacturer: ALARM.COM INCORPORATED
8281 GREENSBORO DRIVE, SUITE 100. TYSONS, VIRGINIA
22102. USA.

Brand Name: ALARM.COM

Model No.: ADC-VDB750

Report Number: TERF2512004152ER

FCC ID: YL6-143VDB750

Date of EUT Received: N/A, the test results are fully leveraged from test report number
TERF2512004157ER, for more details please refer to section 2
in this report.

Date of Test: N/A, the test results are fully leveraged from test report number
TERF2512004157ER, for more details please refer to section 2
in this report.

Issue Date: February 13, 2026

Approved By

Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2020 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2512004152ER	00	Original	February 13, 2026	Mini Yeh	

Note:

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

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Table of Contents

1	GENERAL INFORMATION	5
1.1	Product Description	5
1.2	RF Specification	5
1.3	Antenna Designation	5
1.4	Operating Frequencies	6
1.5	EUT Availability and The Worst Test Modes	6
2	SUMMARY OF TEST RESULTS	7
2.1	Test Methodology of Applied Standards	7
2.2	Measurement Uncertainty	8
2.3	Test Facility	9
3	CONTROL UNIT(S) AND PERIPHERAL(S).....	10
3.1	EUT Exercise	10
3.2	Diagrams.....	10
3.3	List	11
4	TEST INSTRUMENT	12
4.1	Conducted Measurement	12
4.2	Radiated Measurement	12
4.3	Emission from AC power line.....	13
5	REGULATORY REQUIREMENTS	14
5.1	Emission Bandwidth	14
5.2	Duty Cycle.....	14
5.3	Maximum Output Power.....	14
5.4	Maximum Power Spectral Density.....	14
5.5	Out of Band Emission.....	14
5.6	Unwanted Emissions.....	15
5.7	AC Power Line Conducted Emission.....	16
5.8	Antenna Requirement	16
6	TEST CONFIGURATION.....	17
6.1	Emission Bandwidth	17
6.2	Maximum Output Power.....	18
6.3	Maximum Power Spectral Density.....	19
6.4	Out of Band Emission.....	19

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6.5	Unwanted Emission.....	21
6.6	AC Power Line Conducted Emission.....	24
7	TEST RESULTS.....	25
7.1	Emission Bandwidth.....	25
7.2	Maximum Output Power.....	27
7.3	Maximum Power Spectral Density.....	29
7.4	Out of Band Emission.....	30
7.5	Unwanted Emissions.....	32
7.6	AC Power Line Conducted Emission.....	50

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	ALARM.COM VIDEO DOORBELL
Brand Name:	ALARM.COM
Model No.	ADC-VDB750
Hardware Version:	N/A
Firmware Version:	N/A
Power Supply:	16 Vdc
Test Software (Name/Version)	Tera Term/v4.84

1.2 RF Specification

Radio Technology:	LoRa DTS
Frequency Range:	903MHz to 914.2MHz, 923.3MHz to 926.9MHz
Channel number:	16 channels
Modulation type:	CSS
Transmit Power:	22.08 dBm (Peak)

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	902MHz – 928MHz	-7

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

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1.4 Operating Frequencies

902~928 MHz (500kHz)		902~928 MHz (500kHz)	
CH	Freq. (MHz)	CH	Freq. (MHz)
64	903	0	923.3
65	904.6	1	923.9
66	906.2	2	924.5
67	907.8	3	925.1
68	909.4	4	925.7
69	911	5	926.3
70	912.6	6	926.9
71	914.2	7	927.5

1.5 EUT Availability and The Worst Test Modes

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 radiation 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.

The given UE is pre-scanned among below modes.

CONDUCTED TEST			
MODE	AVAILABLE FREQUENCY(MHz)	TEST FREQUENCY (MHz)	MODULATION
LoRa 500 kHz	903MHz to 914.2MHz , 923.3MHz to 926.9MHz	903 , 914.2 , 926.9	CCS

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)			
MODE	AVAILABLE FREQUENCY(MHz)	TEST FREQUENCY (MHz)	MODULATION
LoRa 500KHz	903MHz to 914.2MHz , 923.3MHz to 926.9MHz	903 , 914.2 , 926.9	CSS

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)			
MODE	AVAILABLE FREQUENCY(MHz)	TEST FREQUENCY (MHz)	MODULATION
LoRa 500KHz	903MHz to 914.2MHz , 923.3MHz to 926.9MHz	903 , 914.2 , 926.9	CSS

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Compliant	
§15.247(b) (3)	Peak Output Power	Compliant	
§15.247(a)(2)	Emission Bandwidth	Compliant	
§15.205 §15.209 §15.247(d)	Out of Band Emission	Compliant	
§15.205 §15.209 §15.247(d)	Unwanted Emission	Compliant	
§15.247(e)	Peak Power Density	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2512004157ER

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024

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2.2 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
Peak Power Density	+/- 0.61 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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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	ISED CAB identifier/ Company Number
TW3702 / 4620A	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702 / 4620A
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	TW3702 / 4620E
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	50407435023E	21.2~22.3°C / 70~65%	2025/12/17 ~ 2026/01/29
Radiated	SAC G Chamber	Temo Chen	504074350244	21.5~23.3°C / 42~53%	2026/01/13 ~ 2026/01/28
Conduction	Conduction C	Temo Chen	504074350244	20.6°C / 54%	2026/01/14 ~ 2026/01/14

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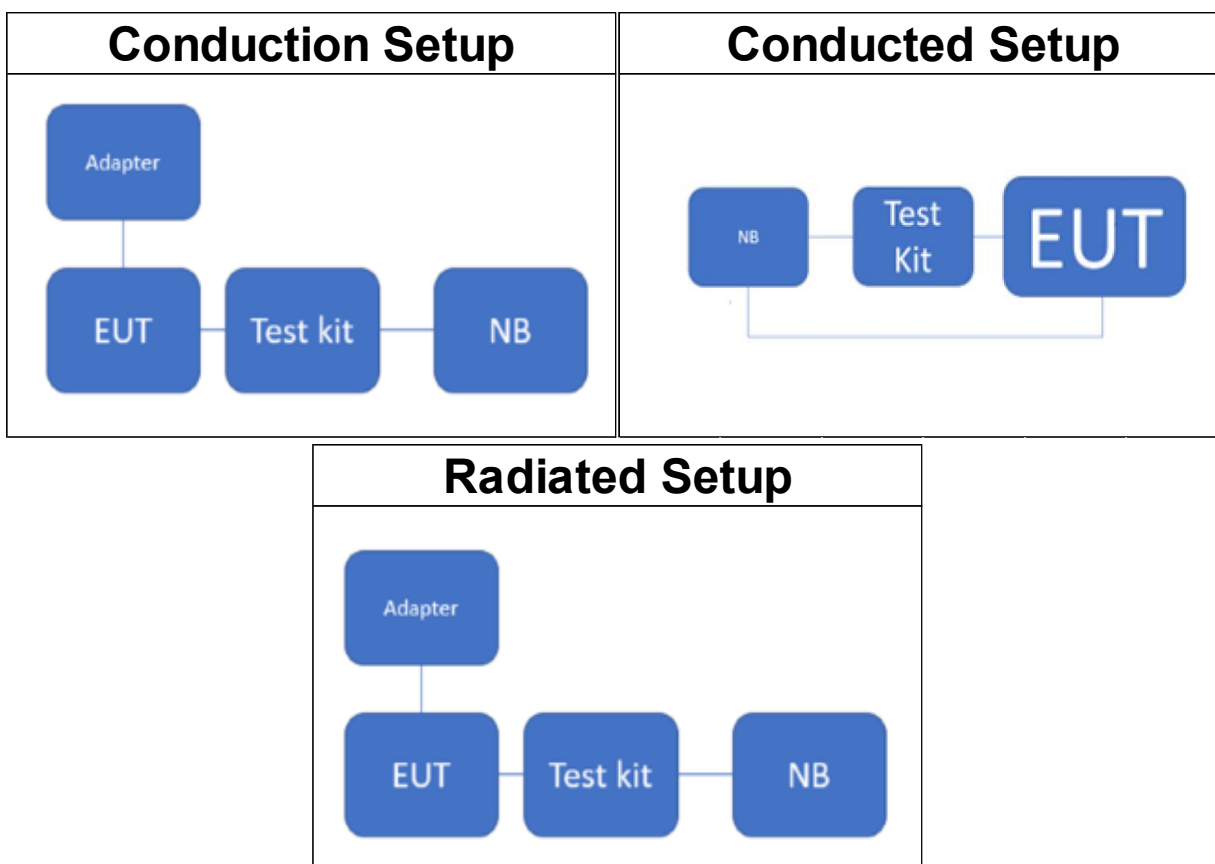
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

1. An engineering test mode provided by the applicant was used to control the EUT transmission, test channel, and modulation.
2. The spectrum analyzer offset was set to compensate for RF cable loss and attenuation between the EUT and the analyzer, ensuring the reading reflects the actual RF output level. Duty factor compensation was also applied where applicable.

3.2 Diagrams



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3.3 List

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Micro USB Cable	ronever	VPC-70	N/A	N/A	N/A
Notebook	Lenove	T490	P0002550	N/A	N/A
Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF05	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF34	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	1326001	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315048	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315049	07/29/2025	07/28/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/02/2025	04/01/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2025	03/29/2026
800-1000 Notch Filter	Woken	EWT-54-0037	RF190	11/13/2025	11/12/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/08/2026	01/07/2027
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/13/2025	11/12/2026
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/15/2025	04/14/2026
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026

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4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/18/2025	04/17/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

5.3 Maximum Output Power

5.3.1 FCC

For systems using digital modulation in the 902-928 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

5.4 Maximum Power Spectral Density

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

5.5 Out of Band Emission

For emissions in non-restricted frequency bands, 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

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5.6 Unwanted Emissions

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

In addition, radiated emissions which fall in the restricted bands must also comply with the limit as below.

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: The lower limit shall apply at the transition frequencies.

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5.7 AC Power Line Conducted Emission

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

Frequency range MHz	Limits (dBuV)	
	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.

5.8 Antenna Requirement

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.

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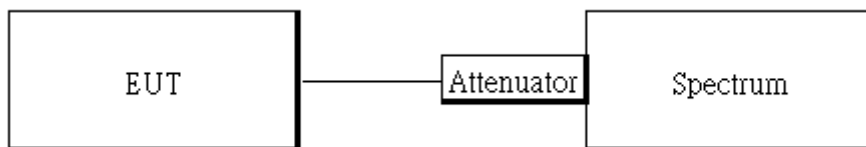
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6 TEST CONFIGURATION

6.1 Emission Bandwidth



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.

6.1.1 6dB BW measurements

1. Set the spectrum analyzer as
RBW = 1% to 5% of the OBW but not less than 100 kHz.
VBW $\geq 3 \times$ RBW,
Span = 2 to 5 times of the OBW,
Sweep = auto,
Detector = Peak, and Max hold.
2. Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
3. Repeat above procedures until all test default channel is completed.

6.1.2 99% BW measurements

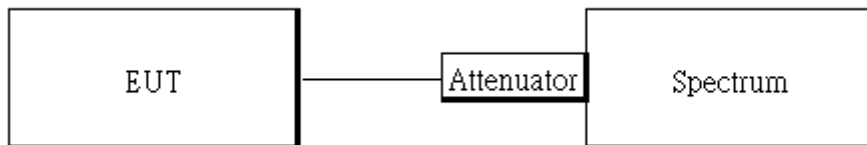
1. Set the spectrum analyzer as
RBW = 1 % to 5% of 99% and without going below 1kHz,
VBW $\geq 3 \times$ RBW,
Span = 2 to 5 times of the 99% Bandwidth
Sweep = auto,
Detector = Peak, and Max hold.
2. Use the 99% power bandwidth function of the spectrum analyzer.
3. Repeat above procedures until all test default channel is completed.

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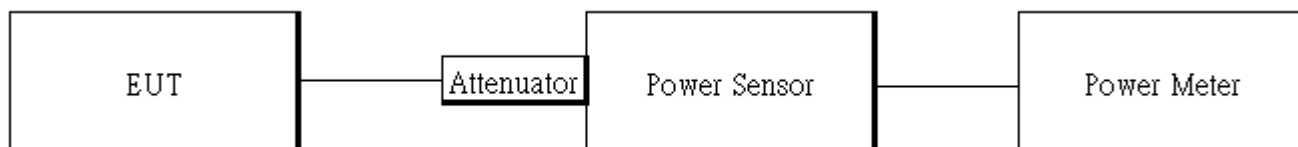
6.2 Maximum Output Power

6.2.1 Duty Cycle



1. Place the EUT on the table and set it in transmitting mode.
2. Set the spectrum analyzer as
Center Frequency = fundamental frequency
RBW = 8MHz,
VBW = 8MHz,
Detector = Peak,
span = Zero
3. Allow trace to fully stabilize.
4. Use the delta marker function to determine the ON and OFF times.

6.2.2 Output Power

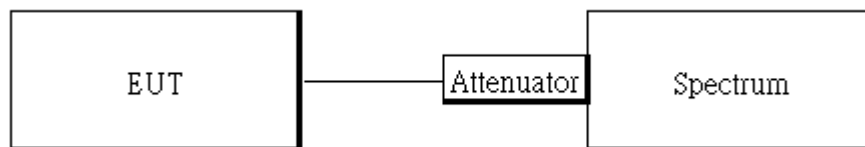


1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
3. Record the max. reading as observed from Power Meter.
4. Repeat above procedures until all default test channel is completed.

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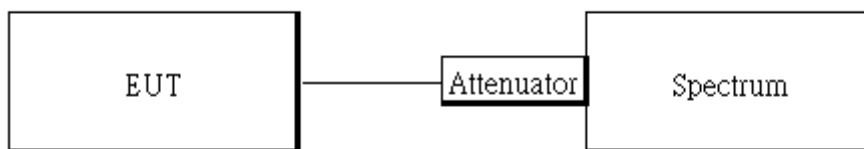
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6.3 Maximum Power Spectral Density



1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span >1.5 times the DTS channel bandwidth.
3. Set the RBW = 3 kHz. & the VBW = 10 kHz
4. Set Detector =average
5. Sweep time = auto couple.
6. Set Trace mode =average
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

6.4 Out of Band Emission



6.4.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW = 100kHz & VBW = 300 kHz.
4. Detector = peak
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

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6.4.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
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 start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
4. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 300 kHz,
Detector = Peak,
Sweep = auto
5. Set DL as the limit = reading on marker of reference level measurement – 30dBm
6. Mark the highest readings of the emissions outside of 902-928 MHz.
7. Repeat above procedures until all default test channel is completed.

6.4.3 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100 kHz & VBW = 300 kHz, Detector = Peak, Sweep = Auto
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
5. Repeat above procedures until all default test channel measured were complete.

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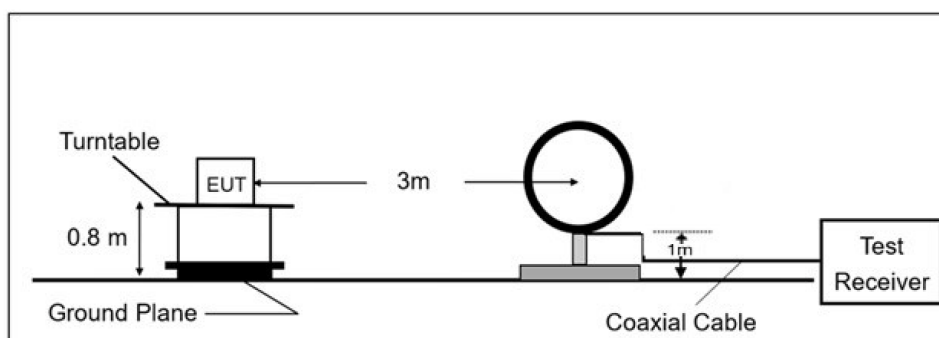
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6.5 Unwanted Emission

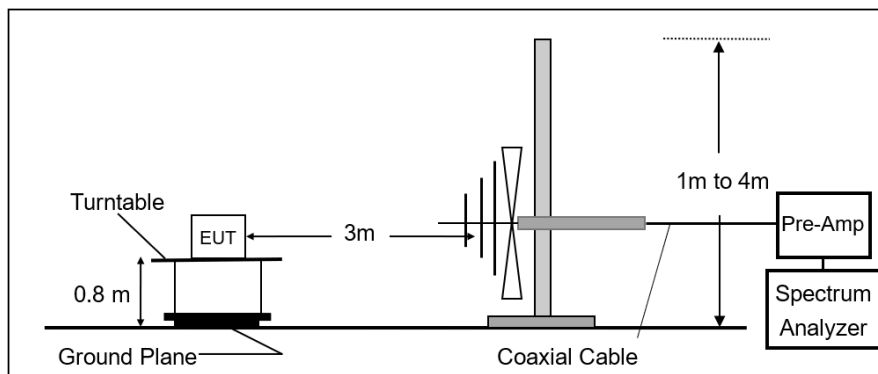
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

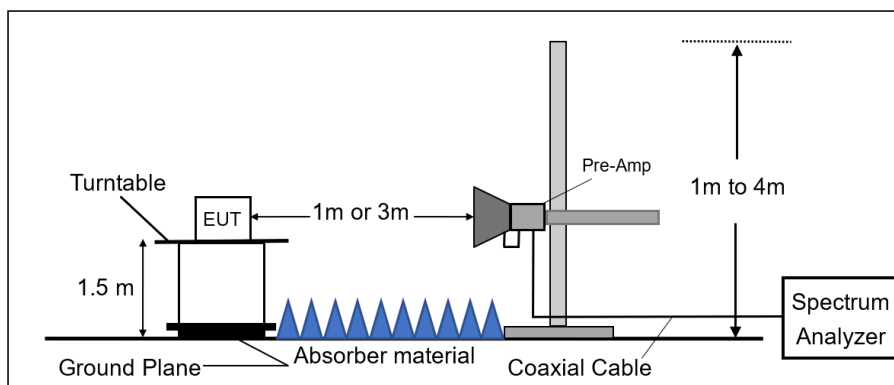
Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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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, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz **when $D \geq 98\%$** . If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
8. Set the spectrum analyzer as RBW=1 MHz, $VBW \geq 1/T$, Detector= Peak **when $D < 98\%$** for Average Emission Measurements at frequency above 1 GHz.
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. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

Note: The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits and hence not reported.

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6.5.1 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:

$$FS = RA + AF + CL - AG$$

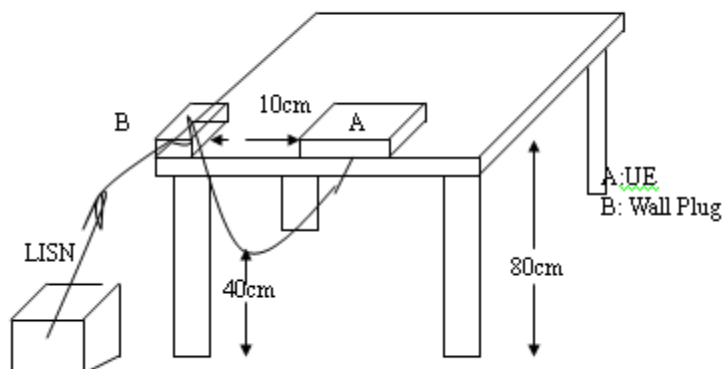
Where FS = Field Strength(dB μ V/m) CL = Cable Attenuation Factor (Cable Loss) (dB)
 RA = Reading Amplitude(dB μ V) AG = Amplifier Gain (dB)
 AF = Antenna Factor (dB μ V/m)

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

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6.6 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI C63.10.
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

$$\text{Level} = \text{Read Level} + \text{Factor}$$
$$\text{Factor} = (\text{LISN, ISN, or current probe})\text{Factor} + \text{Cable Loss} + \text{Attenuator}$$

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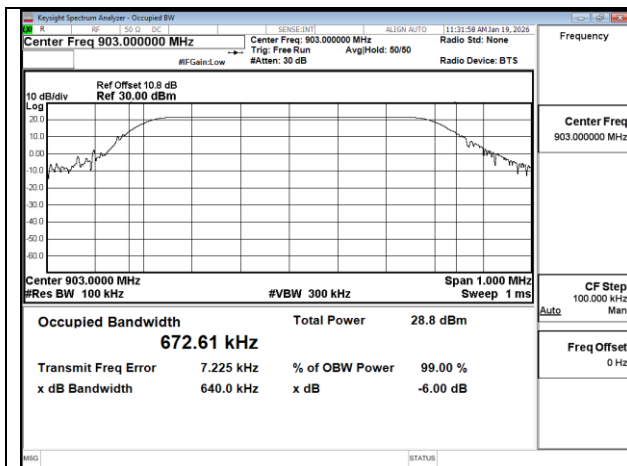
7 TEST RESULTS

7.1 Emission Bandwidth

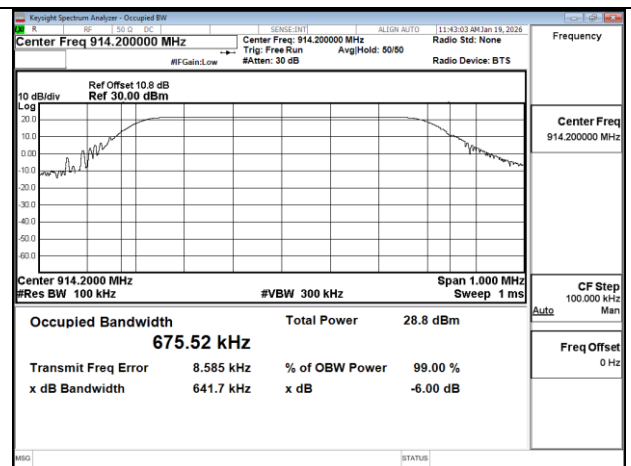
7.1.1 6dB BW measurements

LoRa 500 kHz mode

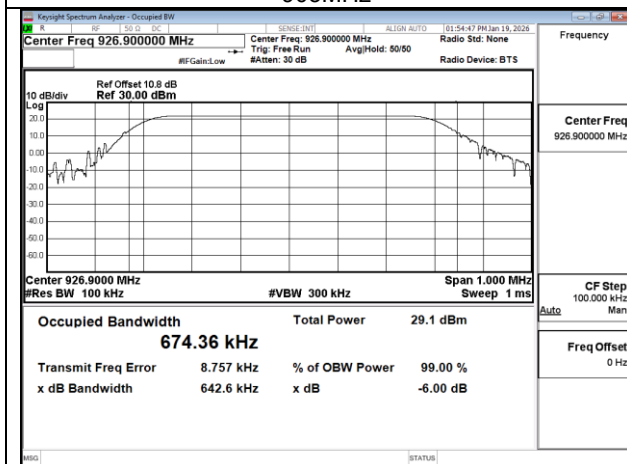
Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
903	0.64	≥ 0.5	PASS
914.2	0.6417	≥ 0.5	PASS
926.9	0.6426	≥ 0.5	PASS



903MHz



914.2MHz



926.9MHz

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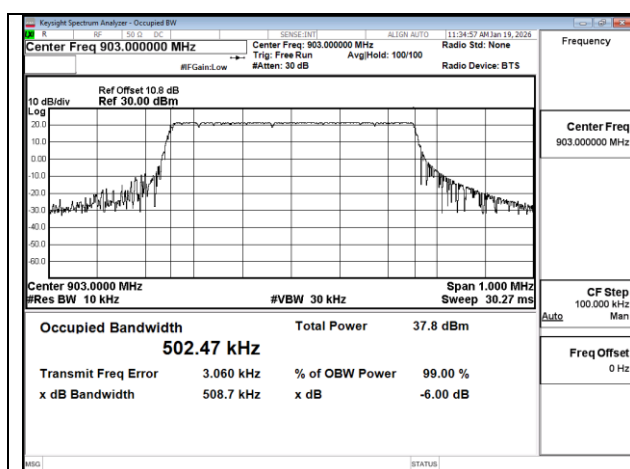
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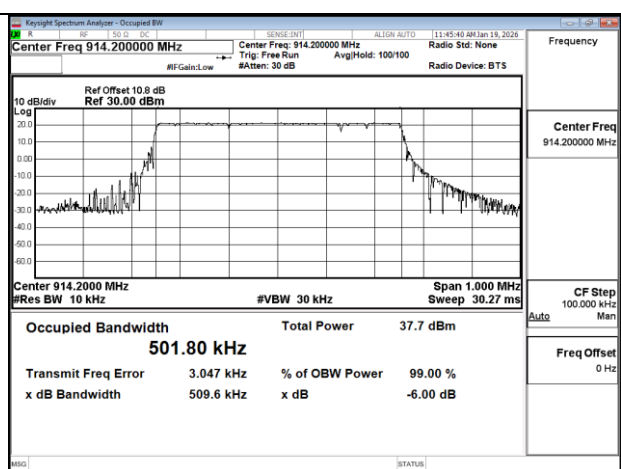
7.1.2 99% Bandwidth

LoRa 500 kHz mode

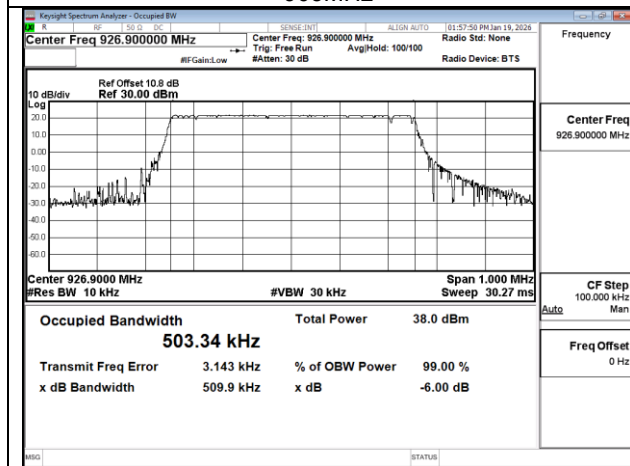
Frequency (MHz)	99%Bandwidth (MHz)
903	0.50247
914.2	0.5018
926.9	0.50334



903MHz



914.2MHz



926.9MHz

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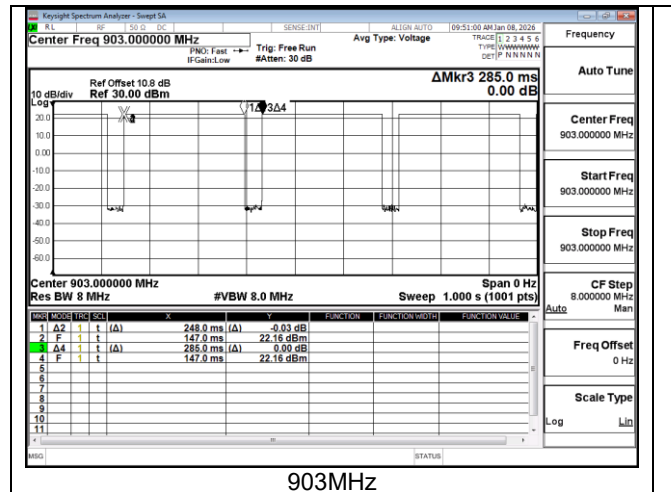
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7.2 Maximum Output Power

7.2.1 Duty Factor:

Duty Cycle				
Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
LoRa 500 kHz	87.02	0.60	0.00	1.00



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7.2.2 Conducted Power

LoRa 500 kHz mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
Low	903	default	21.75	30
Mid	914.2	default	21.69	30
High	926.9	default	22.08	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	903	default	21.65	30
Mid	914.2	default	21.58	30
High	926.9	default	21.90	30

***Note:**

1. Measured by power meter, cable loss 10.8 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

7.2.3 EIRP

EIRP LoRa 500 kHz mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
Low	903	default	21.65	-7.00	14.65	4W=	36	dBm
Mid	914.2	default	21.58	-7.00	14.58	4W=	36	dBm
High	926.9	default	21.90	-7.00	14.90	4W=	36	dBm

*** Note:** EIRP = Average Power + Gain

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

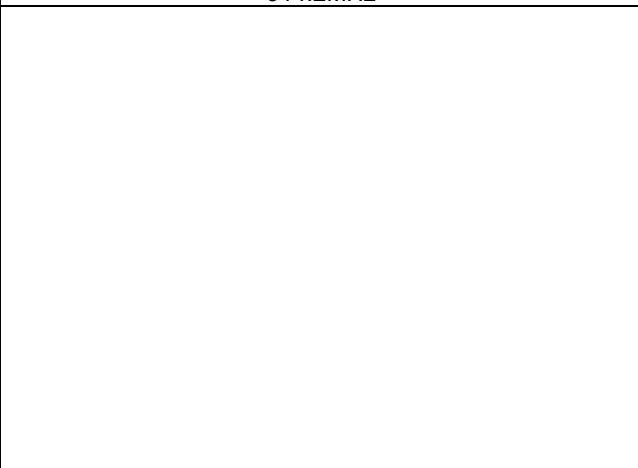
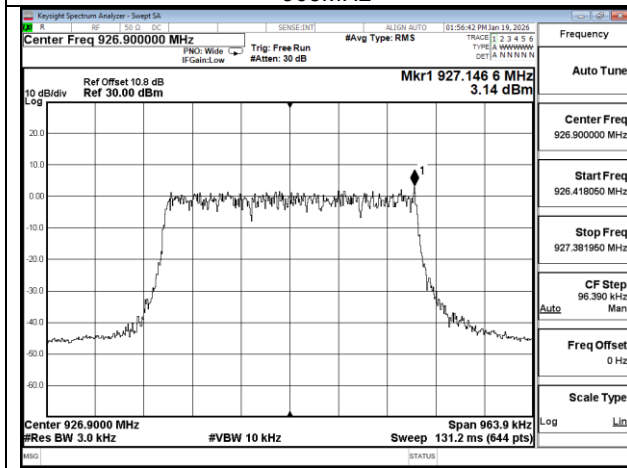
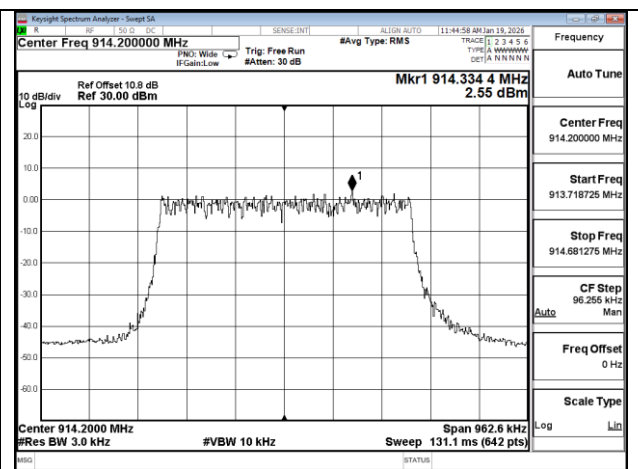
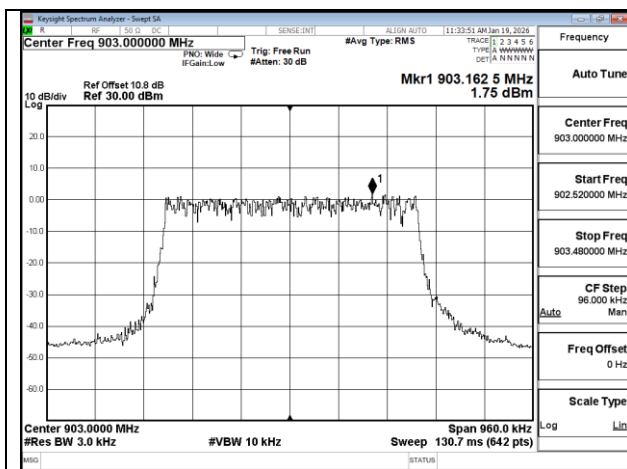
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7.3 Maximum Power Spectral Density

LoRa 500 kHz mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
903	1.75	8	PASS
914.2	2.55	8	PASS
926.9	3.14	8	PASS



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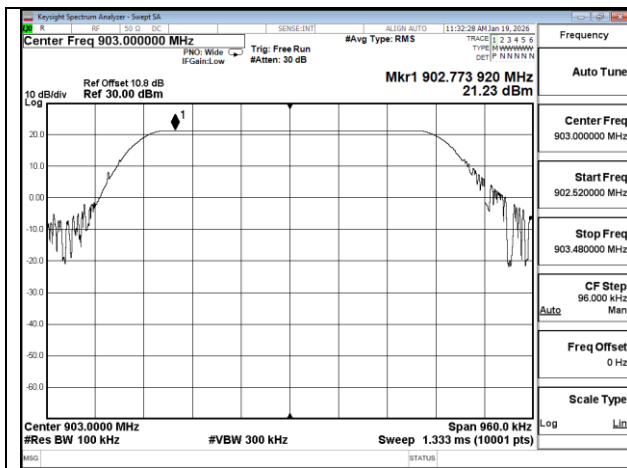
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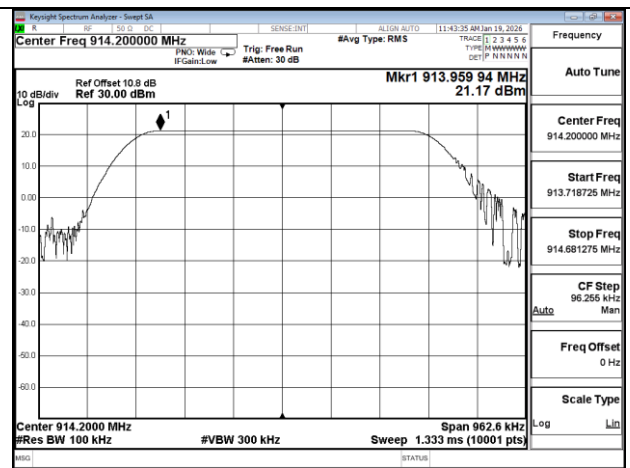
7.4 Out of Band Emission

LoRa 500 kHz Reference Level of Limit

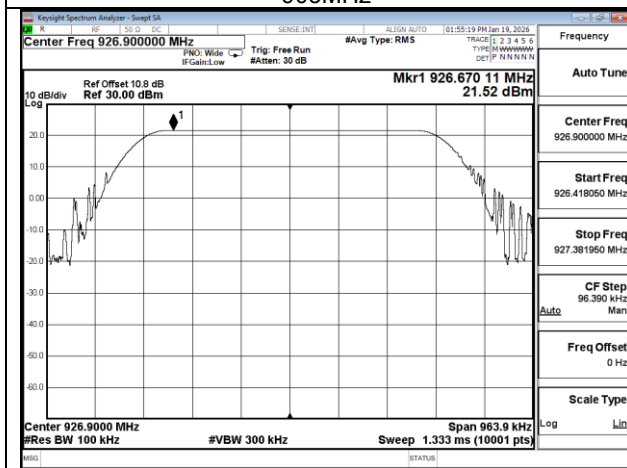
Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 30dB (dBm)
903	21.23	-8.77
914.2	21.17	-8.83
926.9	21.52	-8.48



903MHz



914.2MHz

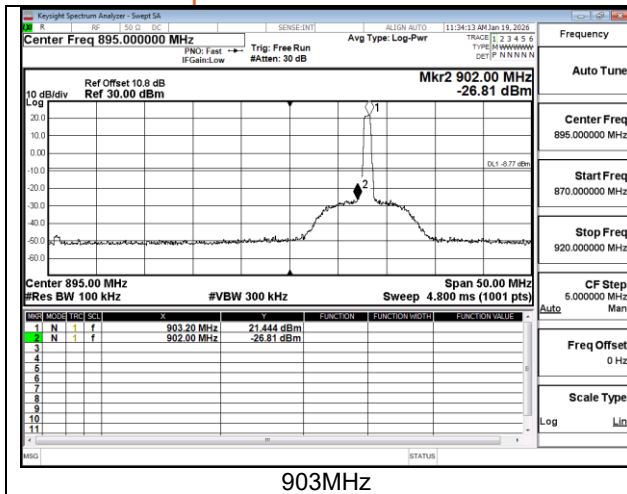


926.9MHz

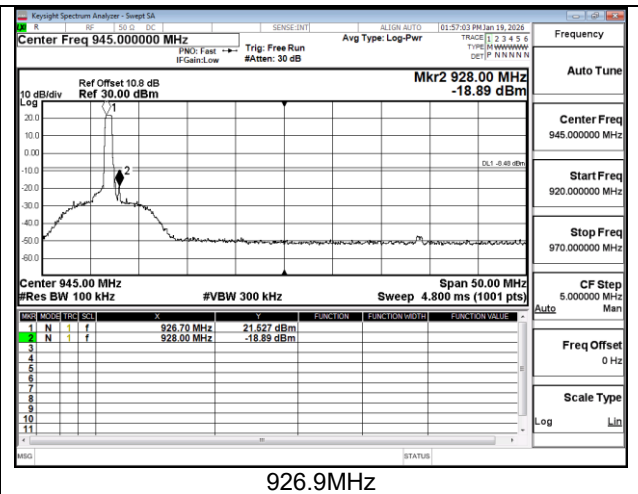
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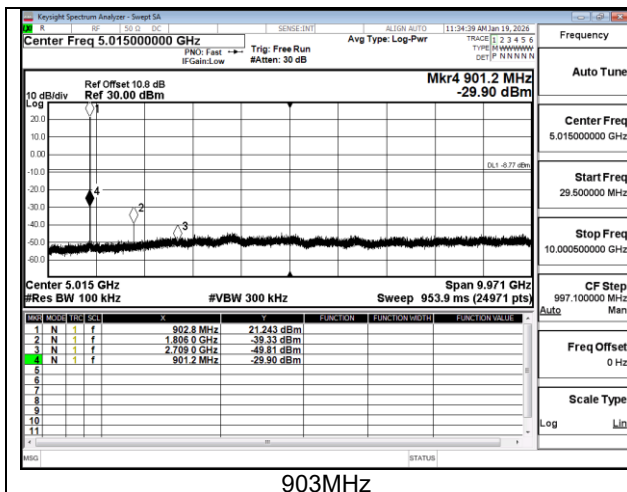
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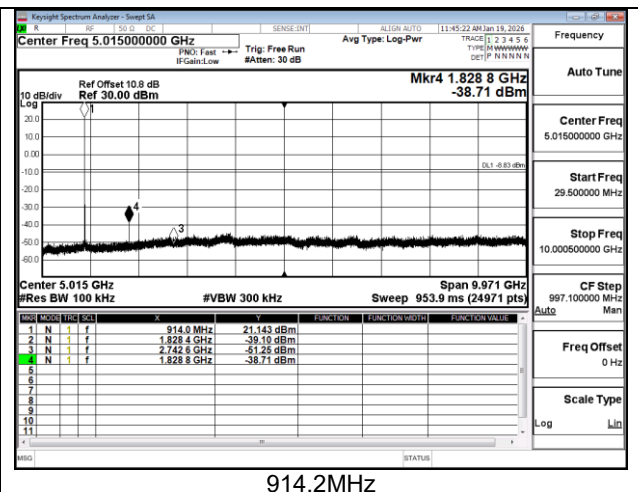
903MHz



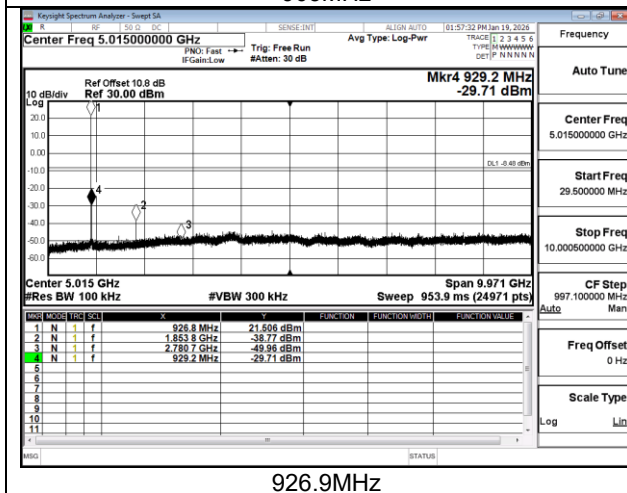
926.9MHz



903MHz



914.2MHz



926.9MHz

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7.5 Unwanted Emissions

7.5.1 Radiated Main and Band Edge Measurement Result

Report Number :TERF2512004157ER

Test Site :SAC G Chamber

Operation Mode :LoRa 500KHz

Test Date :2026-01-28

Test Frequency :903 MHz

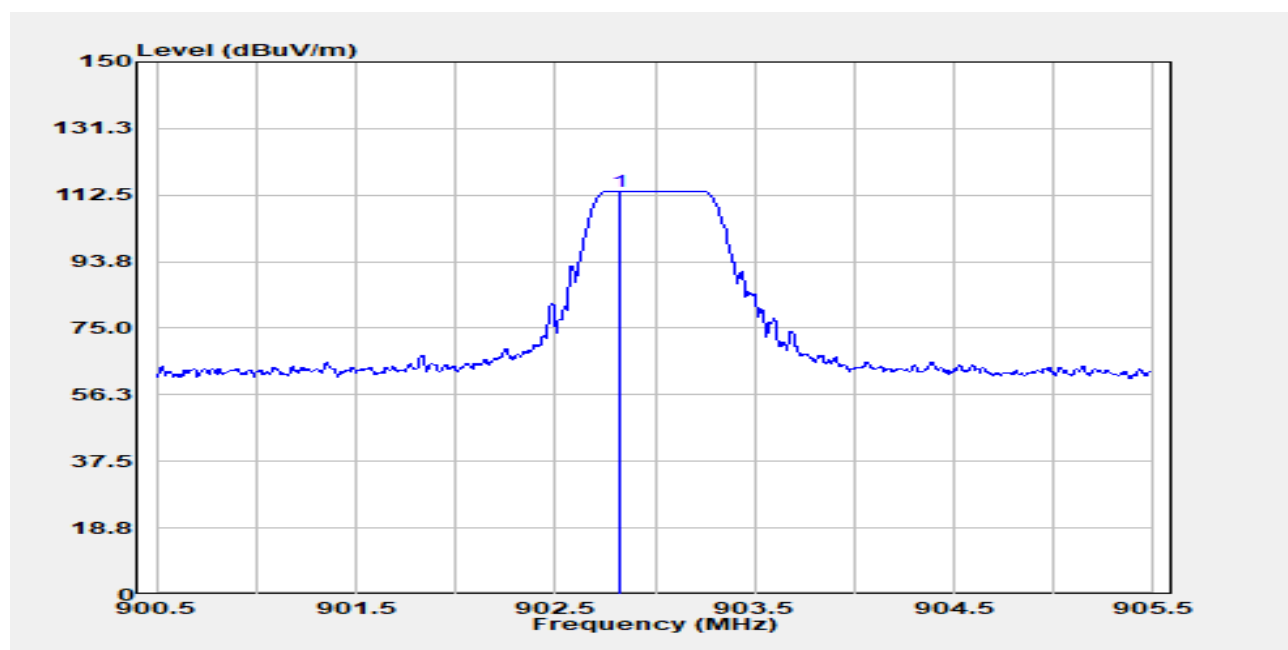
Temp./Humi. :22.7°C/53%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



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
902.83	Peak	114.16	-0.54	113.62	-	-

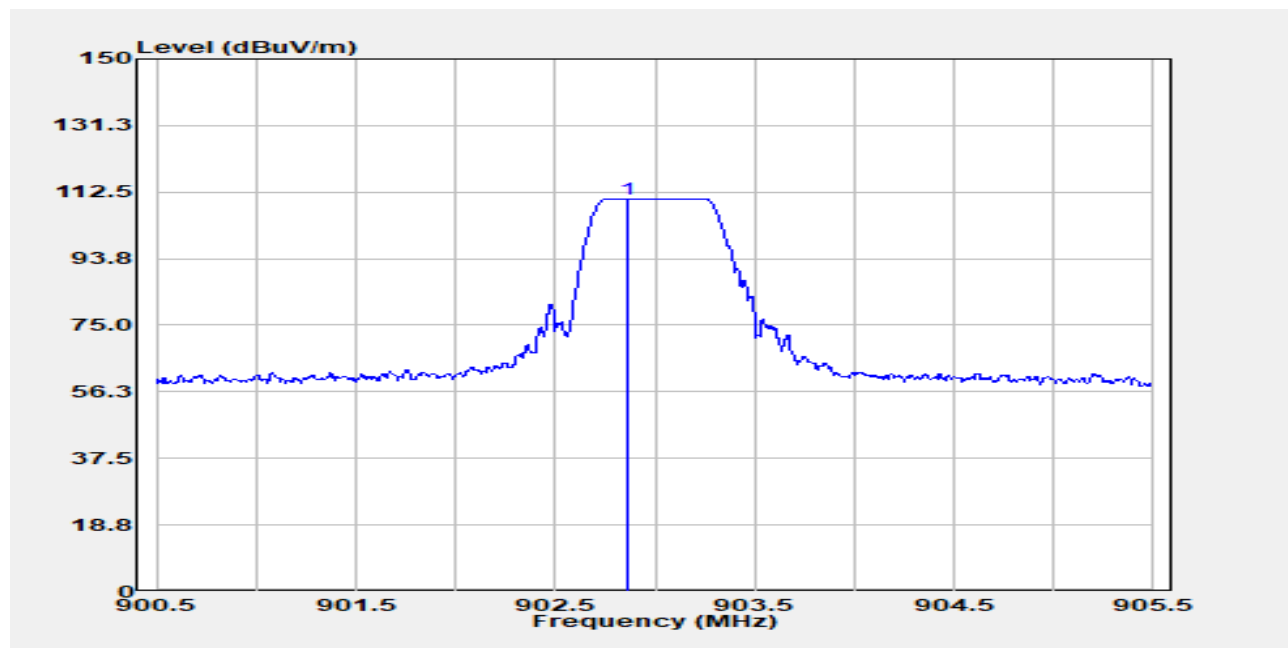
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :903 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
902.86	Peak	111.24	-0.54	110.70	-	-

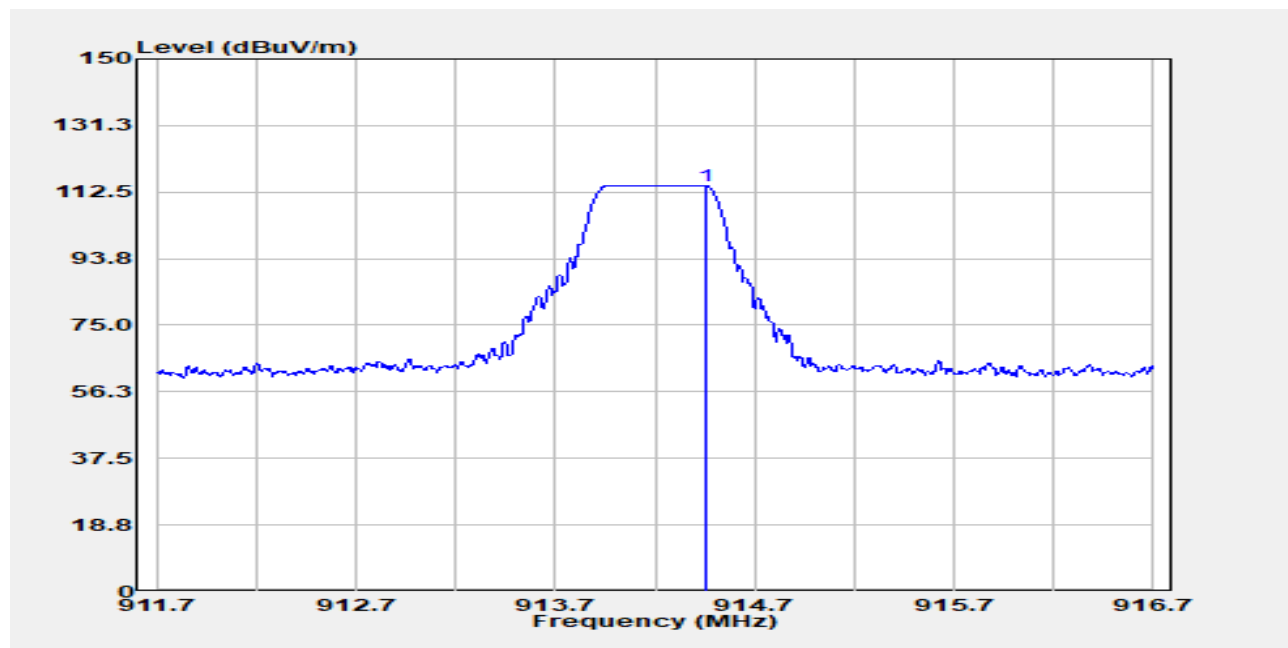
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :914.2 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
914.45	Peak	114.65	-0.28	114.37	-	-

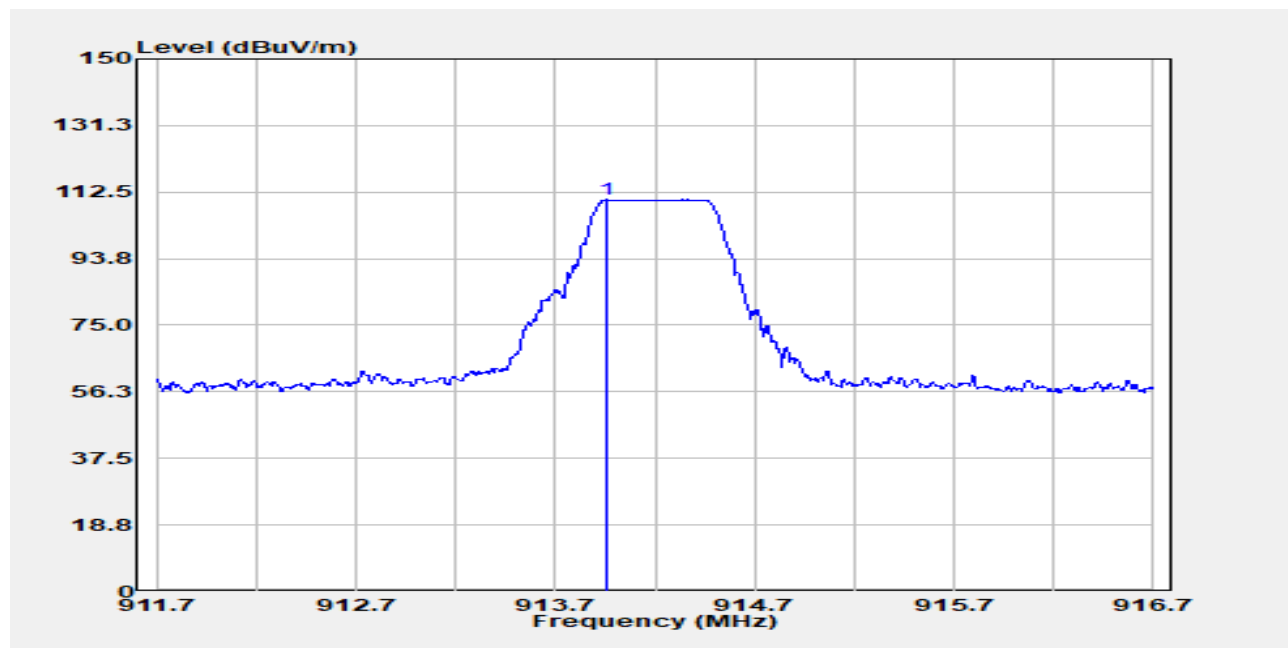
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :914.2 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
913.96	Peak	110.64	-0.29	110.35	-	-

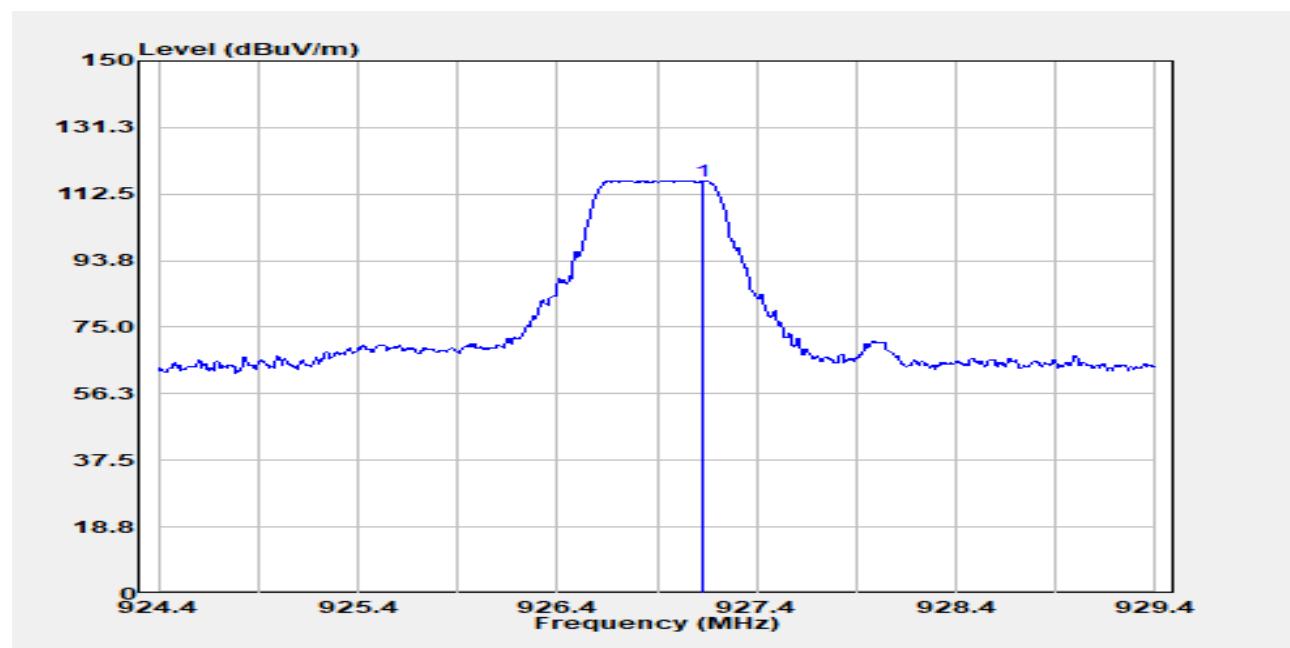
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Report Number :TERF2512004157ER
Operation Mode :LoRa 500KHz
Test Frequency :926.9 MHz
Test Mode :Main
EUT Pol :H Plane

Test Site :SAC G Chamber
Test Date :2026-01-28
Temp./Humi. :22.7°C/53%
Antenna Pol. :Vertical
Engineer :Temo Chen



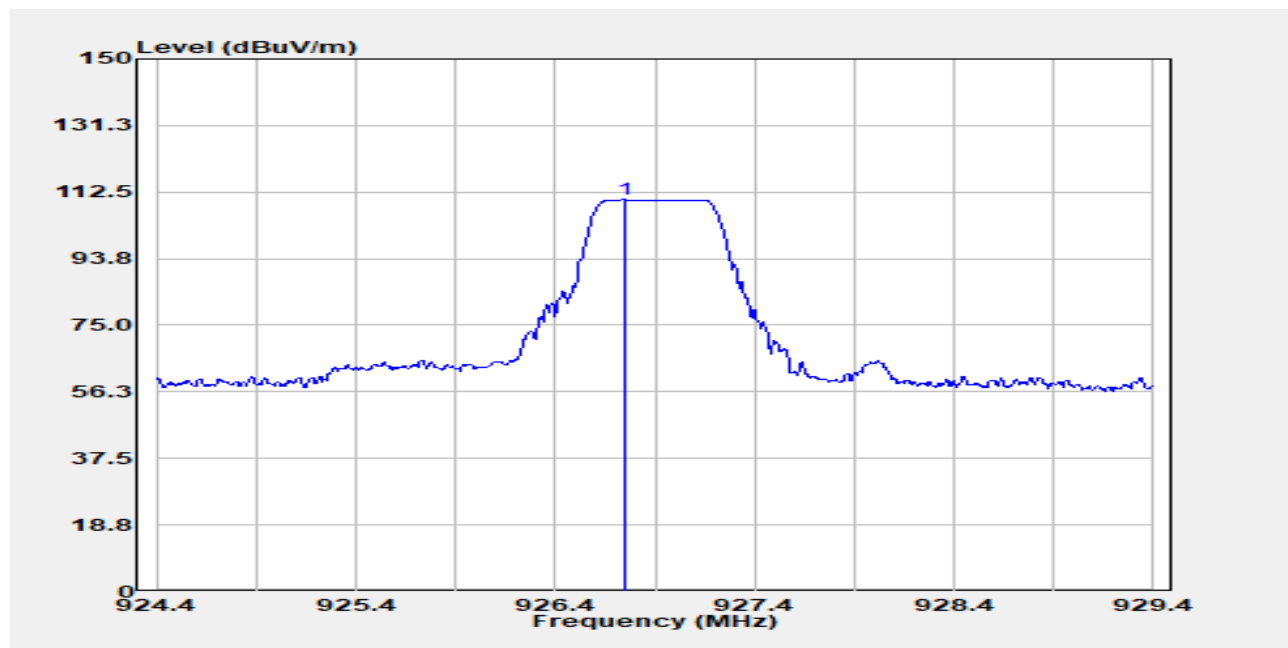
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
927.14	Peak	116.15	-0.08	116.07	-	-

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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :926.9 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
926.75	Peak	110.48	-0.10	110.38	-	-

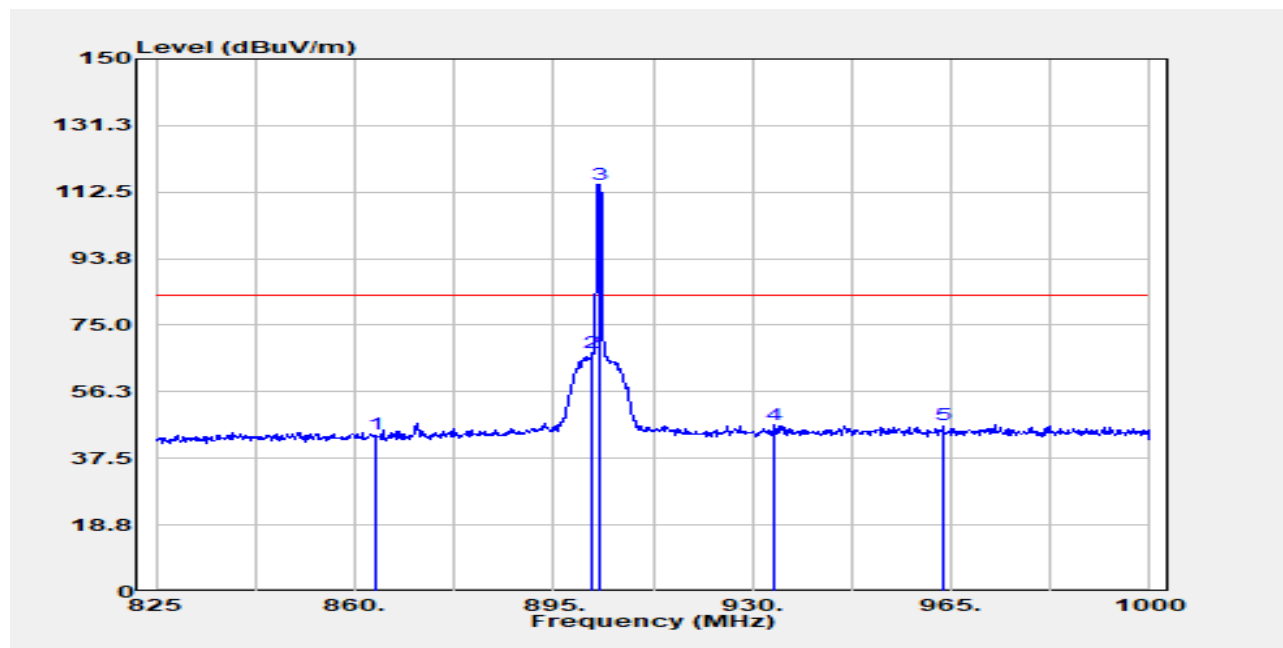
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :903 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
863.50	Peak	45.81	-1.27	44.54	83.62	-39.08
901.83	Peak	68.01	-0.56	67.45	83.62	-16.17
903.00	Peak	115.02	-0.54	114.48	-	-
934.03	Peak	46.88	0.12	47.00	83.62	-36.62
963.43	Peak	46.26	0.58	46.84	83.62	-36.78

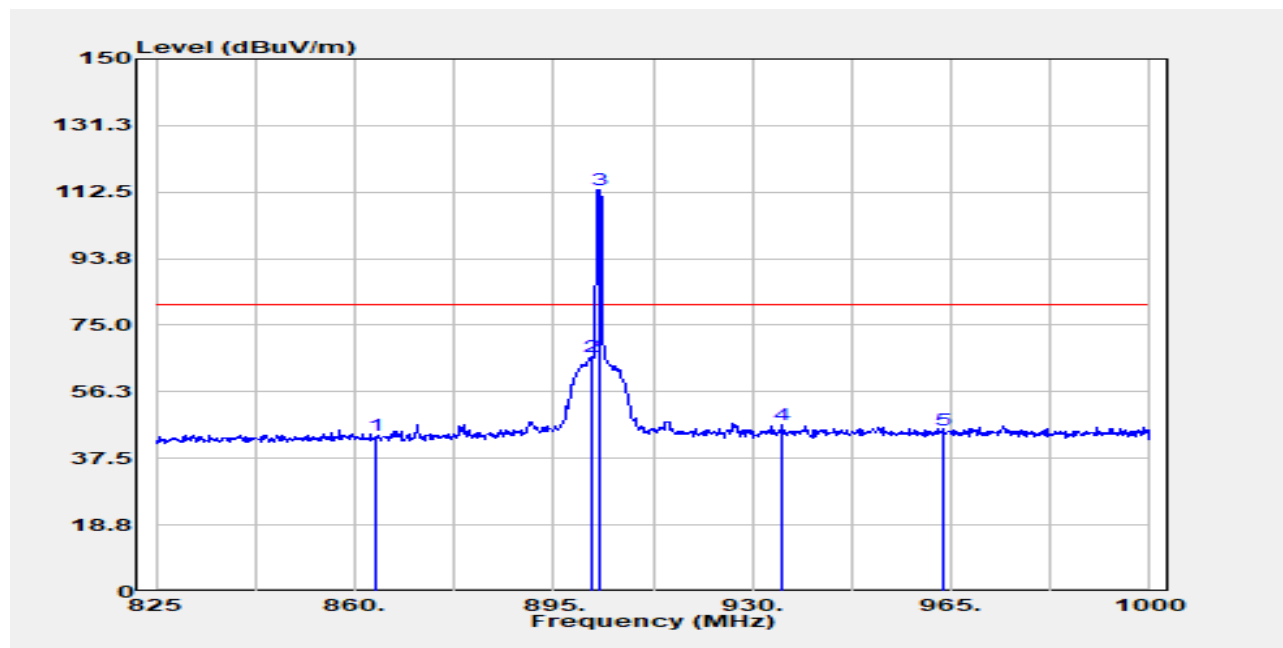
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :903 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



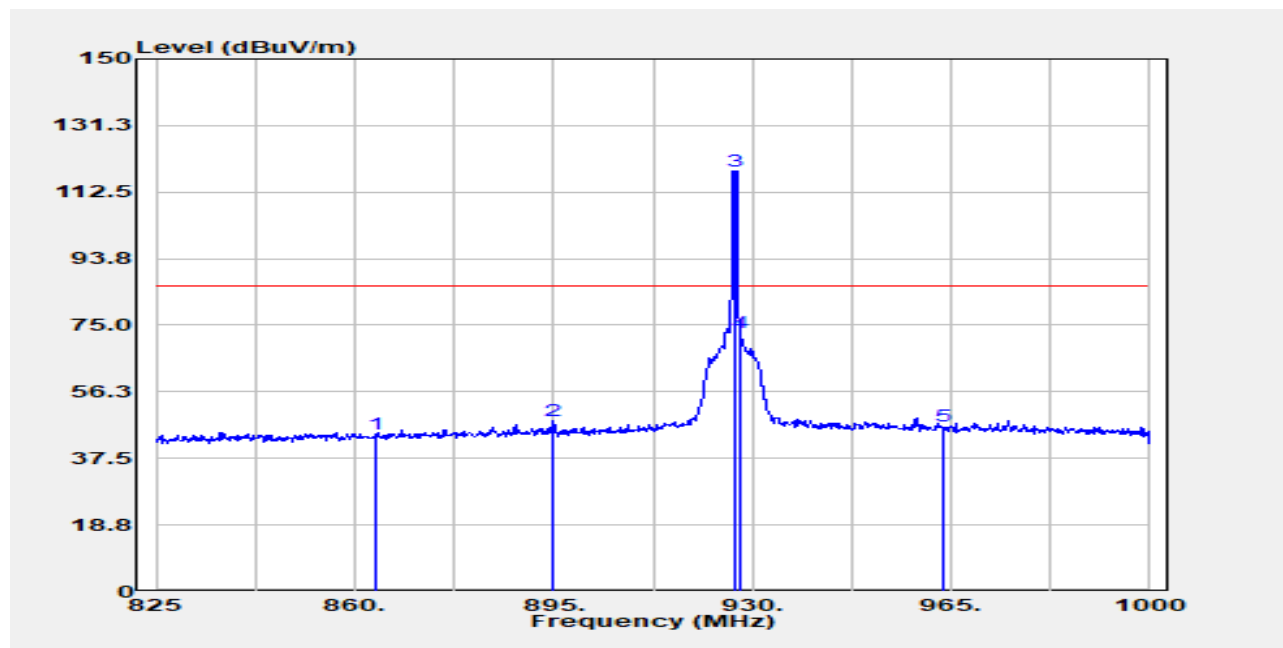
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
863.50	Peak	45.23	-1.27	43.96	80.70	-36.74
901.65	Peak	66.75	-0.57	66.18	80.70	-14.52
903.00	Peak	113.80	-0.54	113.26	-	-
935.25	Peak	46.90	0.15	47.05	80.70	-33.65
963.43	Peak	45.02	0.58	45.60	80.70	-35.10

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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :926.9 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
863.50	Peak	45.59	-1.27	44.32	86.07	-41.75
894.65	Peak	48.86	-0.64	48.22	86.07	-37.85
926.90	Peak	118.47	-0.09	118.38	-	-
927.90	Peak	73.16	-0.05	73.11	86.07	-12.96
963.43	Peak	45.94	0.58	46.52	86.07	-39.55

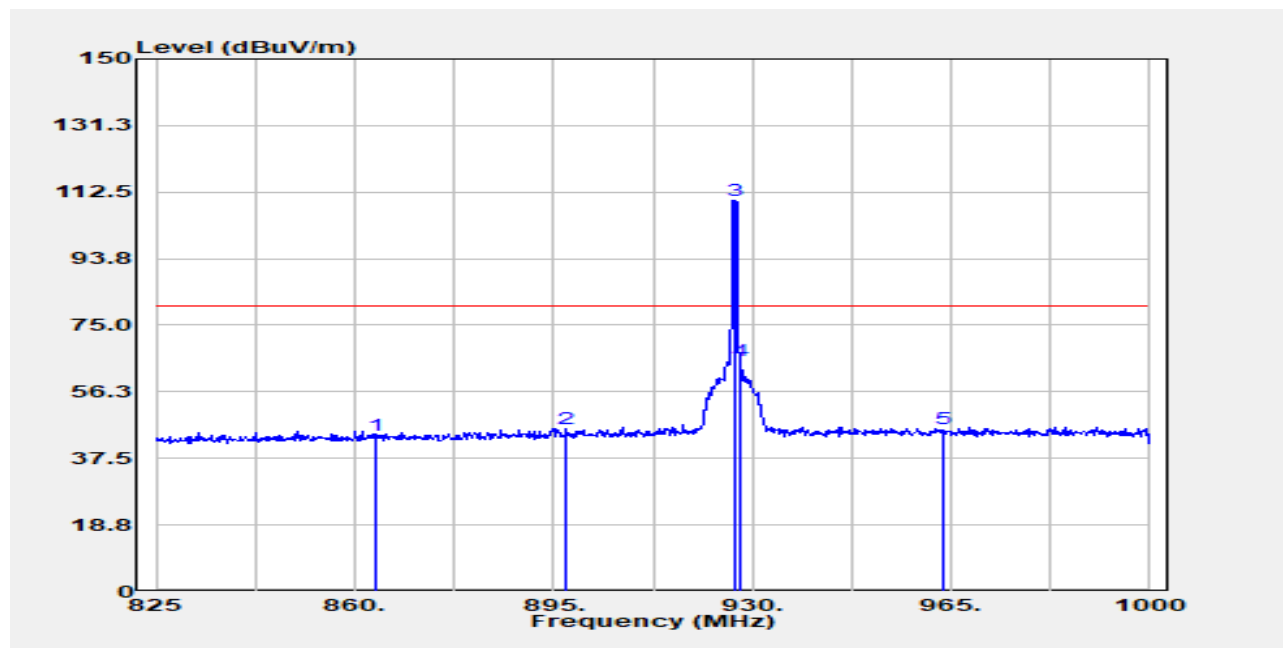
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :926.9 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



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
863.50	Peak	45.34	-1.27	44.07	80.38	-36.31
897.28	Peak	46.64	-0.62	46.02	80.38	-34.36
926.90	Peak	110.09	-0.09	110.00	-	-
927.90	Peak	65.16	-0.05	65.11	80.38	-15.27
963.43	Peak	45.12	0.58	45.70	80.38	-34.68

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7.5.2 Radiated Spurious Emission

Report Number :TERF2512004157ER

Operation Mode :LoRa 500KHz

Test Frequency :914.2 MHz

Test Mode :Tx

EUT Pol :H Plane

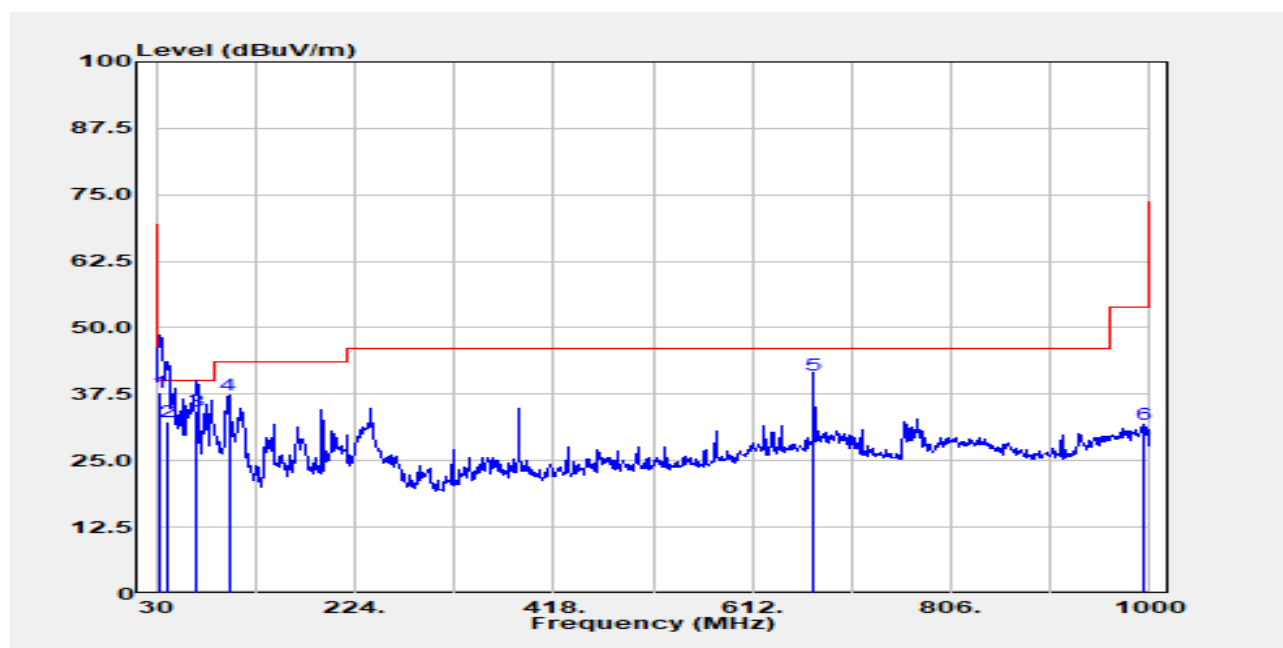
Test Site :SAC G Chamber

Test Date :2026-01-13

Temp./Humi. :21.5°C/49%

Antenna Pol. :Vertical

Engineer :Temo Chen



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
33.88	QP	52.20	-14.41	37.79	40.00	-2.21
41.64	QP	45.70	-13.43	32.27	40.00	-7.73
69.77	QP	49.69	-15.26	34.43	40.00	-5.57
100.81	Peak	55.07	-17.66	37.41	43.50	-6.09
672.14	QP	44.91	-3.86	41.05	46.00	-4.95
994.18	Peak	31.32	0.54	31.86	54.00	-22.14

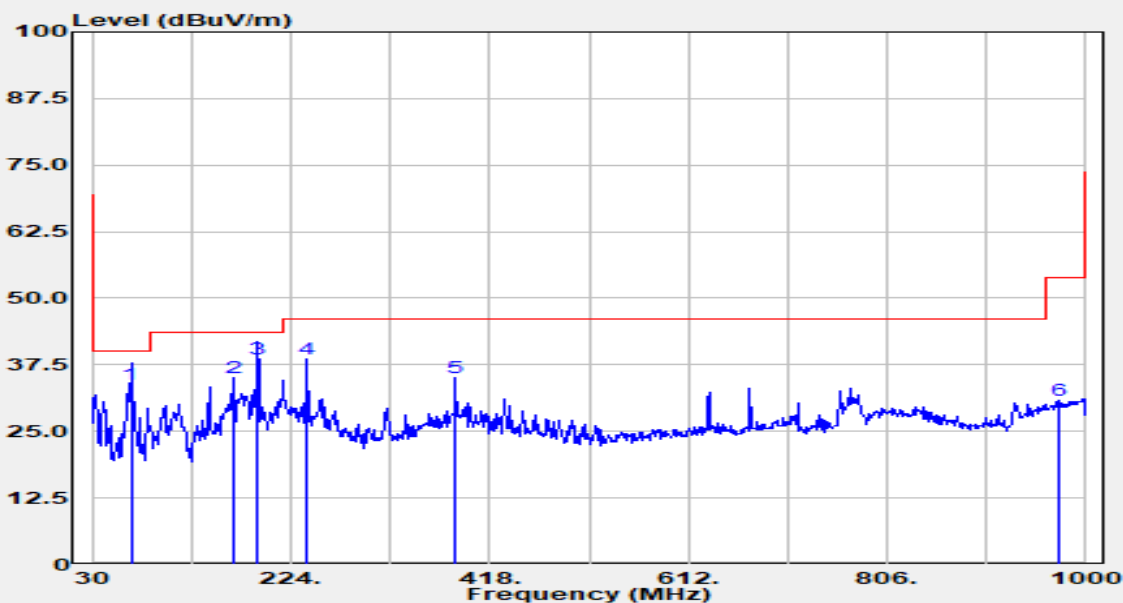
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :914.2 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-13
 Temp./Humi. :21.5°C/49%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



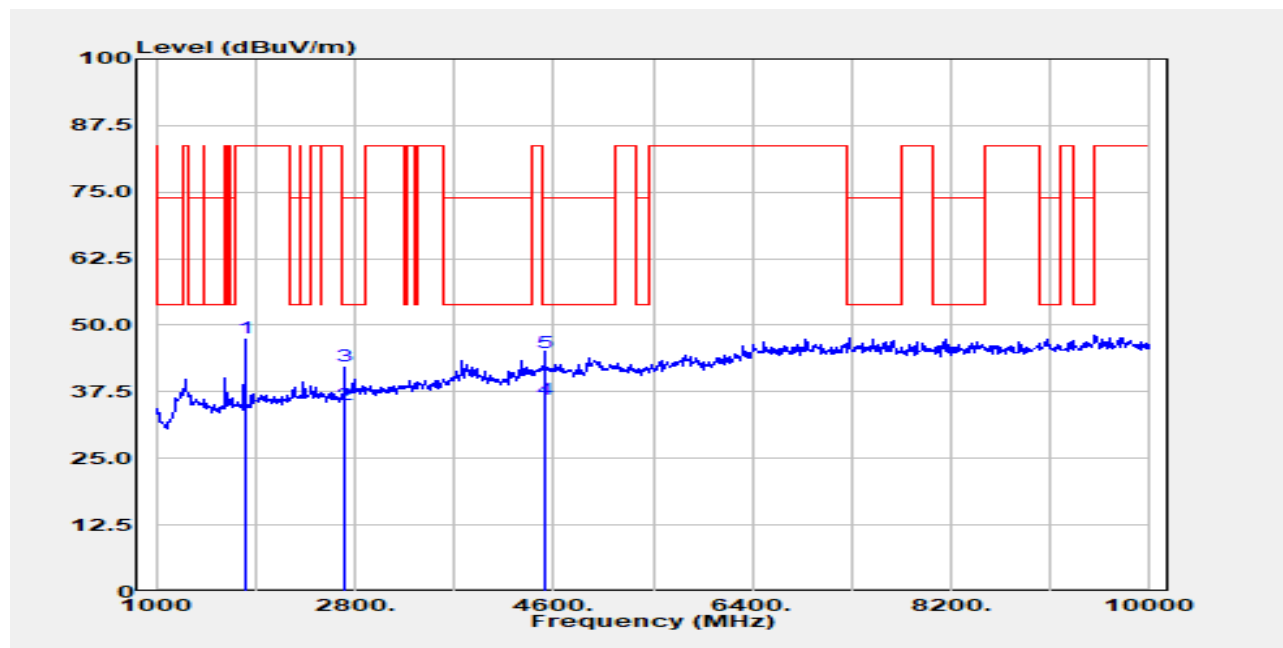
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
67.83	QP	48.30	-14.50	33.80	40.00	-6.20
168.71	Peak	48.31	-13.32	34.99	43.50	-8.51
191.99	QP	54.11	-15.58	38.53	43.50	-4.97
240.49	Peak	52.94	-14.43	38.51	46.00	-7.49
384.05	Peak	45.04	-10.01	35.03	46.00	-10.97
974.78	Peak	30.16	0.63	30.79	54.00	-23.21

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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :903 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-15
 Temp./Humi. :23.3°C/42%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1806.00	Peak	53.61	-5.98	47.63	83.62	-35.99
2709.00	Average	38.29	-3.09	35.20	54.00	-18.80
2709.00	Peak	45.56	-3.09	42.47	74.00	-31.53
4515.00	Average	34.40	1.76	36.16	54.00	-17.84
4515.00	Peak	43.21	1.76	44.97	74.00	-29.03

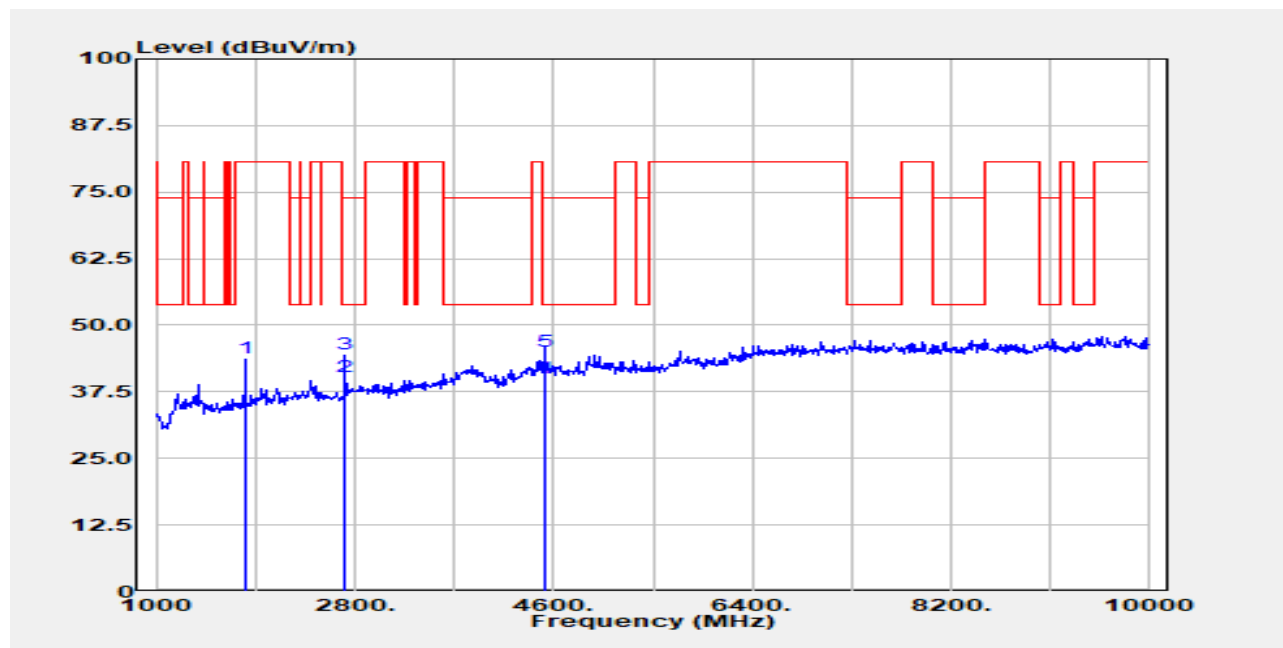
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Report Number :TERF2512004157ER
Operation Mode :LoRa 500KHz
Test Frequency :903 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC G Chamber
Test Date :2026-01-15
Temp./Humi. :23.3°C/42%
Antenna Pol. :Horizontal
Engineer :Temo Chen



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
1806.00	Peak	49.86	-5.98	43.88	80.70	-36.82
2709.00	Average	43.36	-3.09	40.27	54.00	-13.73
2709.00	Peak	47.76	-3.09	44.67	74.00	-29.33
4515.00	Average	38.44	1.76	40.20	54.00	-13.80
4515.00	Peak	43.46	1.76	45.22	74.00	-28.78

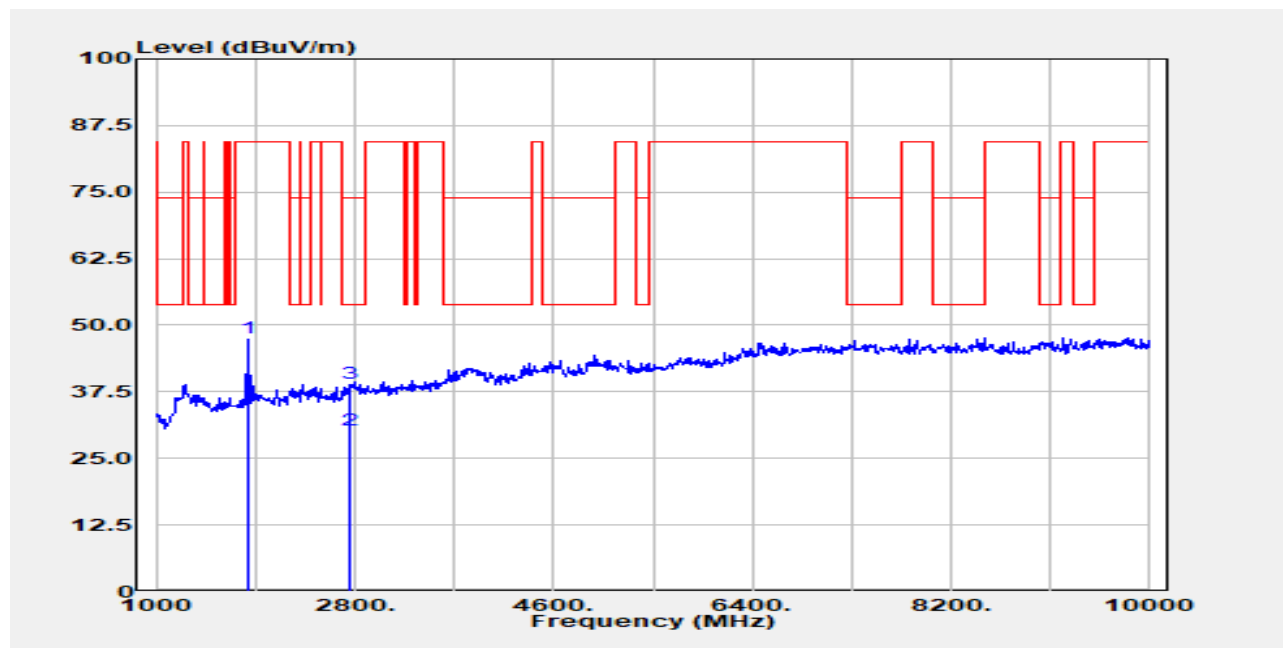
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :914.2 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-15
 Temp./Humi. :23.3°C/42%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1828.40	Peak	53.49	-5.95	47.54	84.37	-36.83
2742.60	Average	33.18	-2.77	30.41	54.00	-23.59
2742.60	Peak	41.98	-2.77	39.21	74.00	-34.79

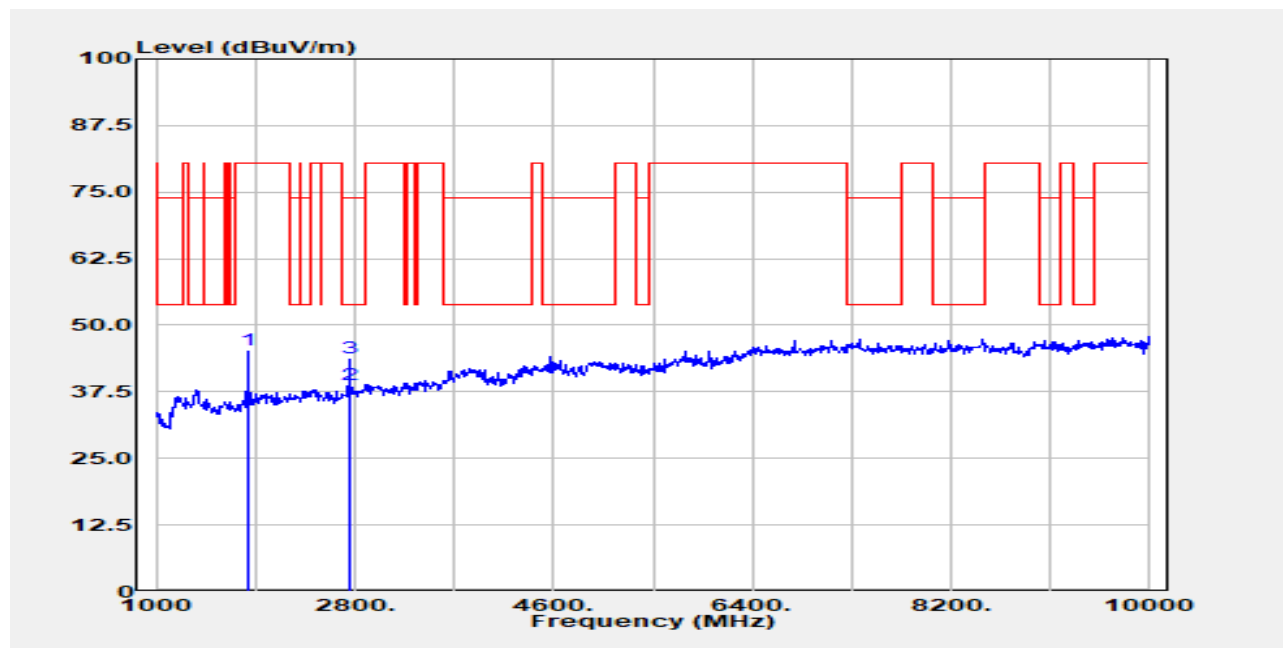
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :914.2 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-15
 Temp./Humi. :23.3°C/42%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



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
1828.40	Peak	51.22	-5.95	45.27	80.35	-35.08
2742.60	Average	41.50	-2.77	38.73	54.00	-15.27
2742.60	Peak	46.54	-2.77	43.77	74.00	-30.23

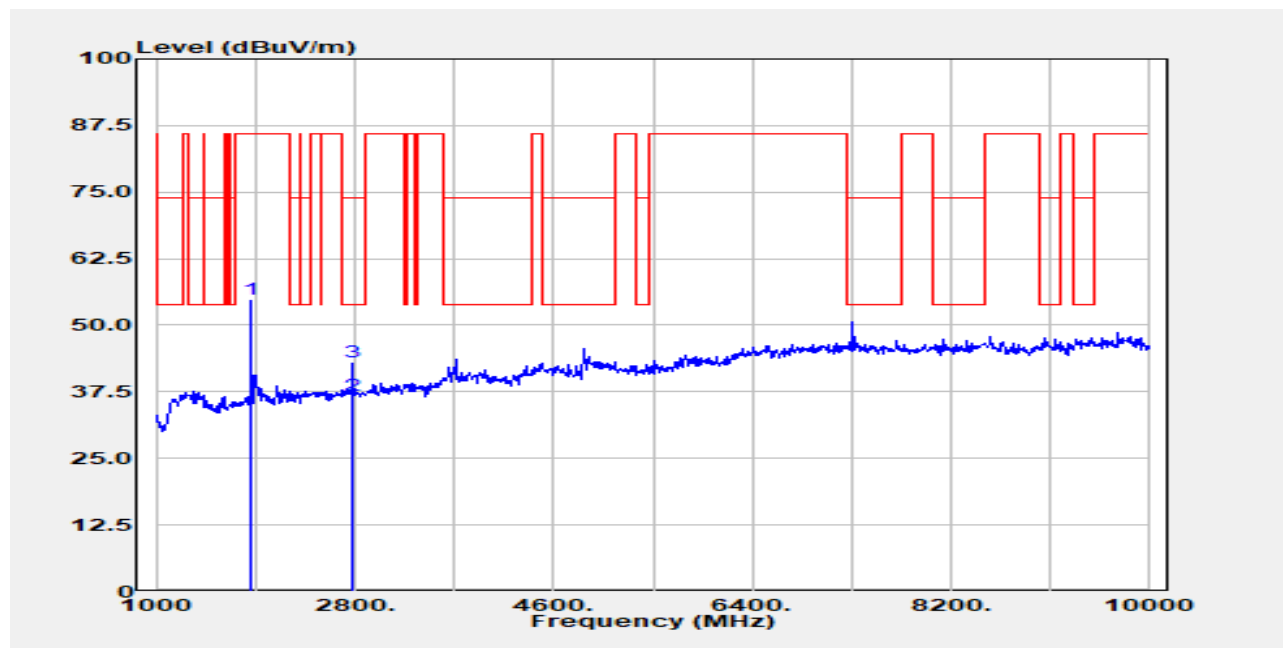
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :926.9 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1853.80	Peak	60.71	-5.72	54.99	86.07	-31.08
2780.70	Average	39.48	-2.56	36.92	54.00	-17.08
2780.70	Peak	45.61	-2.56	43.05	74.00	-30.95

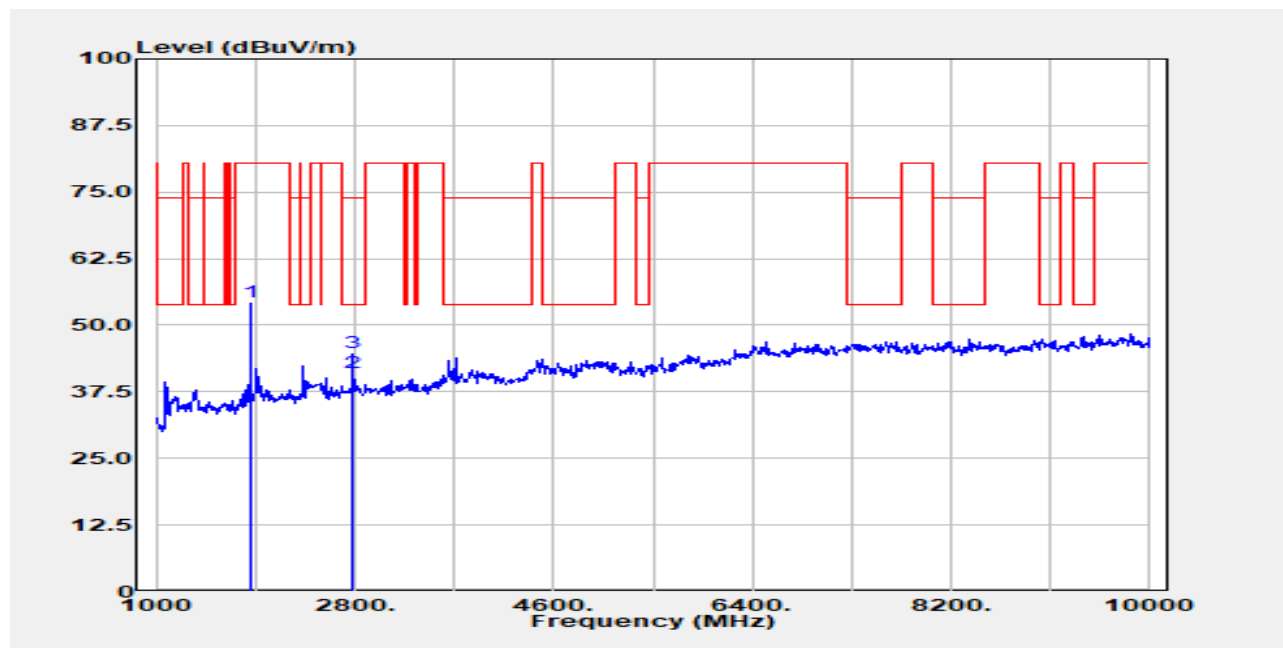
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Report Number :TERF2512004157ER
 Operation Mode :LoRa 500KHz
 Test Frequency :926.9 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



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
1853.80	Peak	60.17	-5.72	54.45	80.38	-25.93
2780.70	Average	43.62	-2.56	41.06	54.00	-12.94
2780.70	Peak	47.53	-2.56	44.97	74.00	-29.03

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7.6 AC Power Line Conducted Emission

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

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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Member of SGS Group

Report Number :TERF2512004157ER

Test Site :Conduction C

Test Mode :Lora DTS

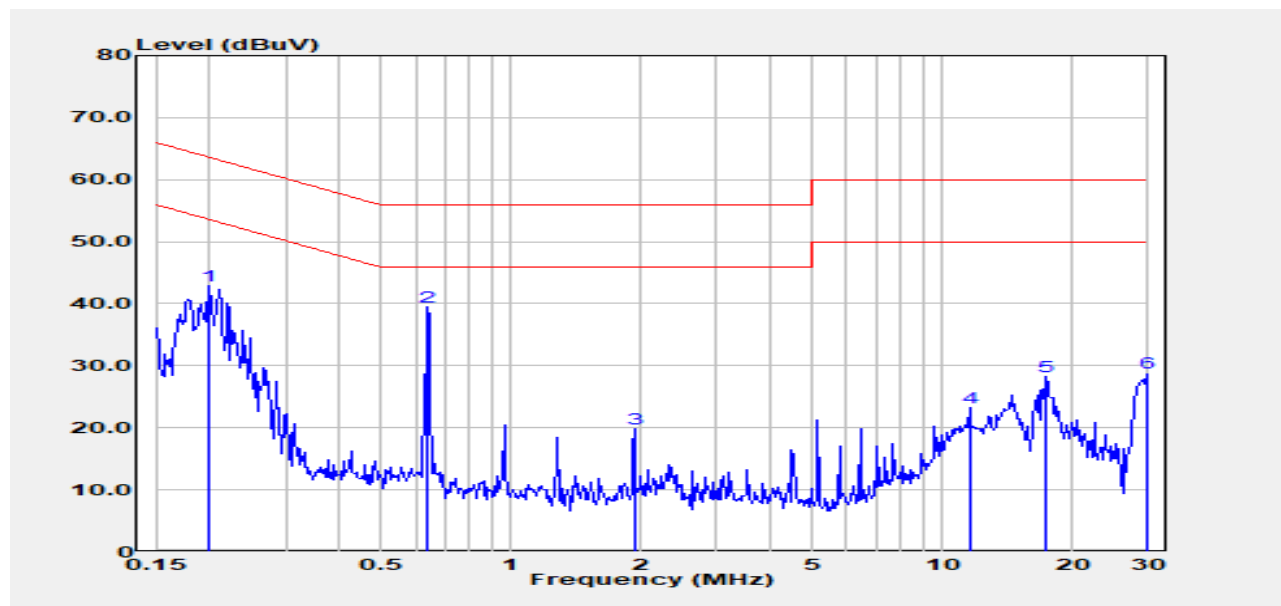
Test Date :2026-01-14

Power :120V/60Hz

Temp./Humi :20.6°C/54%

Probe :L1

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.200	Peak	32.30	10.65	42.95	63.60	-20.65
0.641	Peak	28.93	10.64	39.57	56.00	-16.43
1.932	Peak	9.17	10.77	19.93	56.00	-36.07
11.591	Peak	12.21	11.00	23.21	60.00	-36.79
17.423	Peak	17.17	11.12	28.29	60.00	-31.71
29.746	Peak	17.46	11.37	28.83	60.00	-31.17

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Report Number :TERF2512004157ER

Test Site :Conduction C

Test Mode :Lora DTS

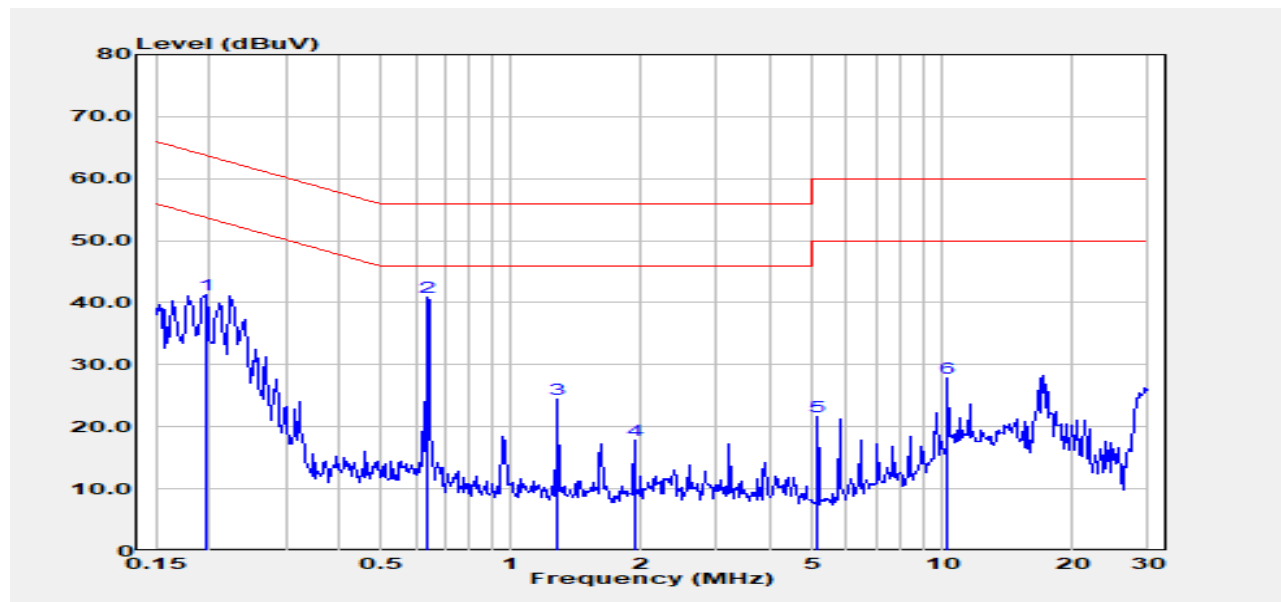
Test Date :2026-01-14

Power :120V/60Hz

Temp./Humi :20.6°C/54%

Probe :N

Engineer :Temo Chen



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
0.195	Peak	30.71	10.65	41.36	63.81	-22.45
0.641	Peak	30.35	10.63	40.98	56.00	-15.02
1.285	Peak	13.69	10.70	24.39	56.00	-31.61
1.932	Peak	7.19	10.75	17.94	56.00	-38.06
5.130	Peak	10.81	10.94	21.74	60.00	-38.26
10.292	Peak	16.95	10.96	27.91	60.00	-32.09

~ End of Report ~

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