

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

EUT Description Wireless Electronic Target Button/Timer Expander
FCC Applicant: Guay Guay Trading Co., Ltd.
No. 999, Zhonghua Rd., Shengang Township, Changhua
County 50952, Taiwan
FCC Manufacturer: Guay Guay Trading Co., Ltd.
No. 999, Zhonghua Rd., Shengang Township, Changhua
County 50952, Taiwan
Brand Name: N/A
Model No.: G-11-175
Report Number: TERF2511003839ER
FCC ID 2BTUWG-11-175
Date of EUT Received: November, 13 2025
Date of Test: November 24, 2025 ~ January 15, 2026
Issue Date: April 08, 2026

Approved By

Arno Hsieh

Arno Hsieh

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
TERF2511003839ER	00	Original	January 16, 2026	Mini Yeh	
TERF2511003839ER	01	Update p.5 & p.7 & p.28	April 08, 2026	Mini Yeh	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Wireless Electronic Target Button/Timer Expander
Brand Name:	N/A
Model No.:	G-11-175
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	N/A
Power Supply:	3.7 Vdc from Rechargeable Li-Ion Battery *2
Test Software (Name/Version)	SmartRF Studio/2.10.0

1.2 RF Specification

Radio Technology:	SRD
Frequency Range:	922MHz - 925MHz
Channel number:	4 channels
Modulation type:	GFSK
Transmit Power:	23.59 dBm (Peak)

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Rubber	902.2MHz – 928MHz	2.2

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, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.
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

922~925 MHz	
CH	Freq. (MHz)
99	922
104	923
109	924
114	925

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)	TESTED FREQUENCY (MHz)	MODULATION
SRD	922,925	922,925	GFSK

TRANSMIT RADIATED EMISSION TEST			
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)	MODULATION
SRD	922,925	922,925	GFSK

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§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

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

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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.

Test Condition	Test Site name	Test Engineer	Test Environment:	Test Date
RF Conducted	Conducted F	Willy Jiang	21.3°C / 72%	December 03, 2025 ~ December 03, 2025

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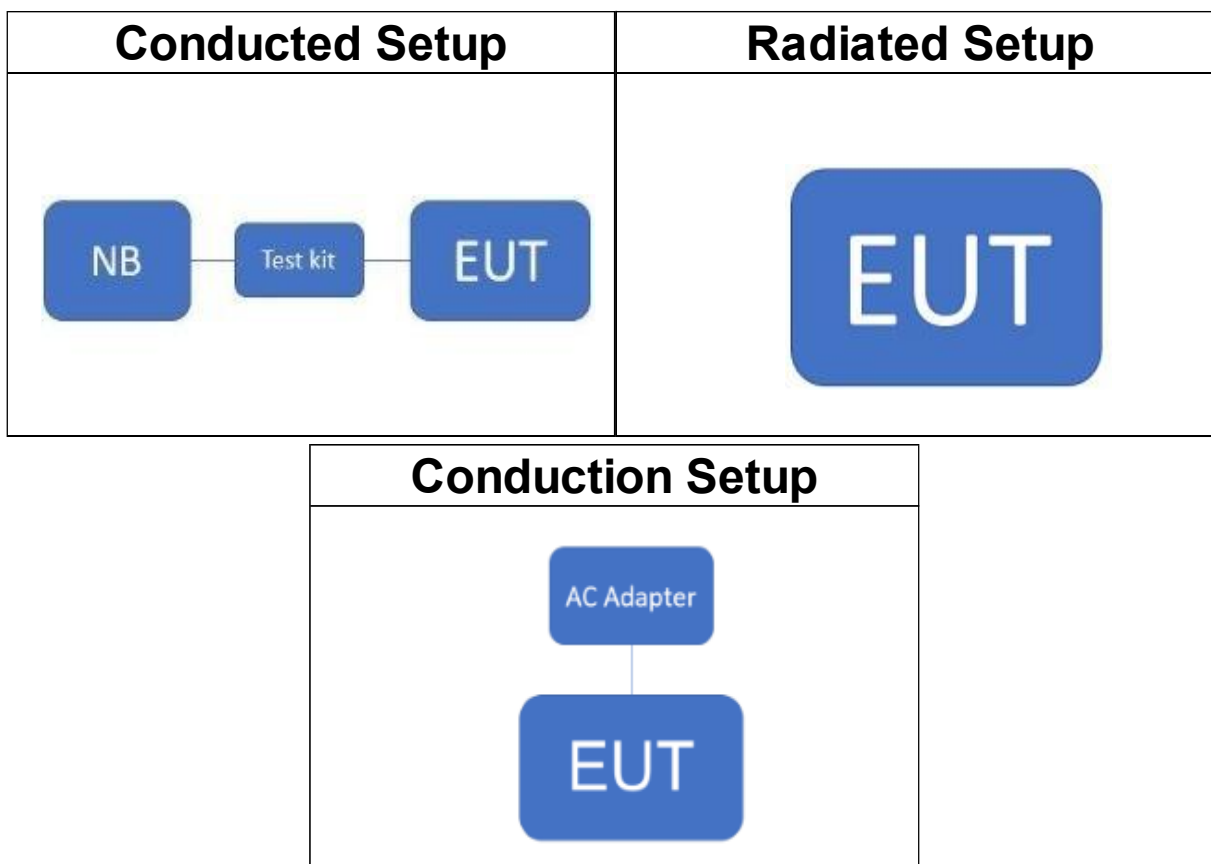
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

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)
Adapter	XIAOMI	MDY-09-ED	N/A	N/A	N/A
USB Cable	I Max	USB-C1200	N/A	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF04	11/13/2025	11/12/2026
Attenuator	Woken	WATT-218FS-10	RF12	11/13/2025	11/12/2026
Coaxial Cables	TITAN	T0710ASFF14110A3 0	RF80	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF38	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	2138005	09/22/2025	09/21/2026
Power Sensor	Anritsu	MA2411B	1911395	09/22/2025	09/21/2026
Power Sensor	Anritsu	MA2411B	1911396	09/22/2025	09/21/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2025	03/01/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Attenuator	Woken	WATT-218FS-10	RF11	11/13/2025	11/12/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/14/2025	11/13/2026
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104- SM-SM- 6000+EMC105-SM- SM-12000+15	W13.01+150813+2 310002+15	11/13/2025	11/12/2026
EMI Test Receiver	R&S	ESU 40	100363	05/06/2025	05/05/2026
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/05/2025	02/04/2026
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330	980091	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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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	974	06/30/2025	06/29/2026
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.

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.

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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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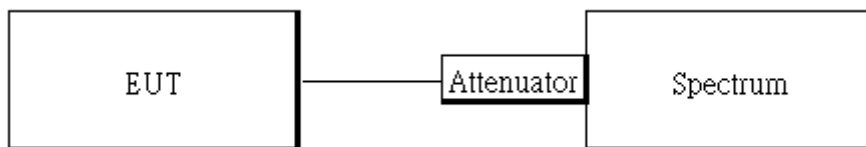
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6 TEST CONFIGURATION

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

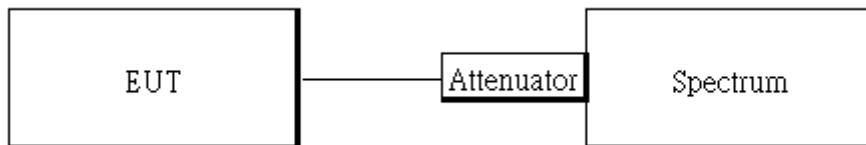
1. Set the spectrum analyzer as
RBW = 1% to 5% of the OBW but not less than 100 kHz.
VBW $\geq 3 \times$ RBW,
Span = 2 to 5 times of the OBW,
Sweep = auto,
Detector = Peak, and Max hold.
2. Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
3. Repeat above procedures until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

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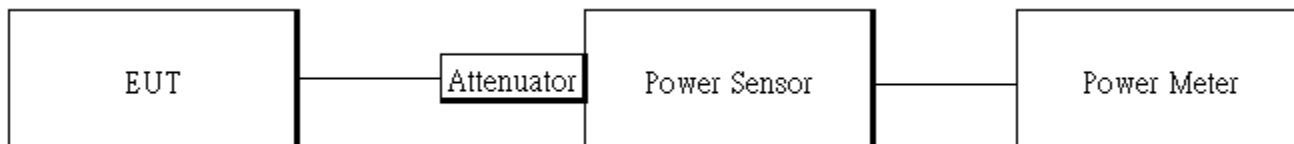
6.2 Maximum Output Power

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

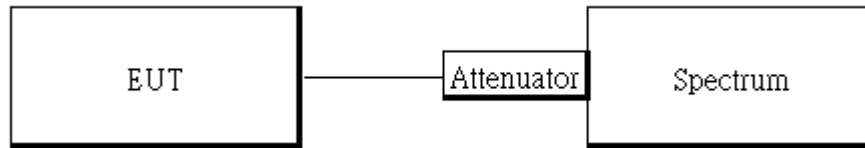


1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
3. Record the max. reading as observed from Power Meter.
4. Repeat above procedures until all default test channel is completed.

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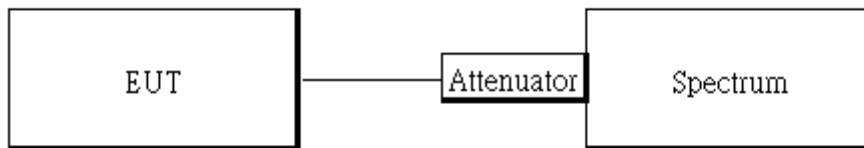
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6.3 Maximum Power Spectral Density



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
Mark the highest readings of the emissions outside of 902-928 MHz.
6. 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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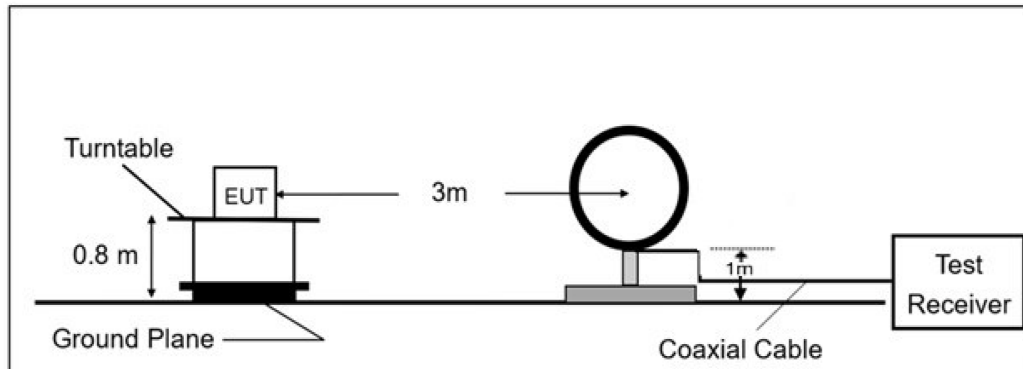
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6.5 Unwanted Emission

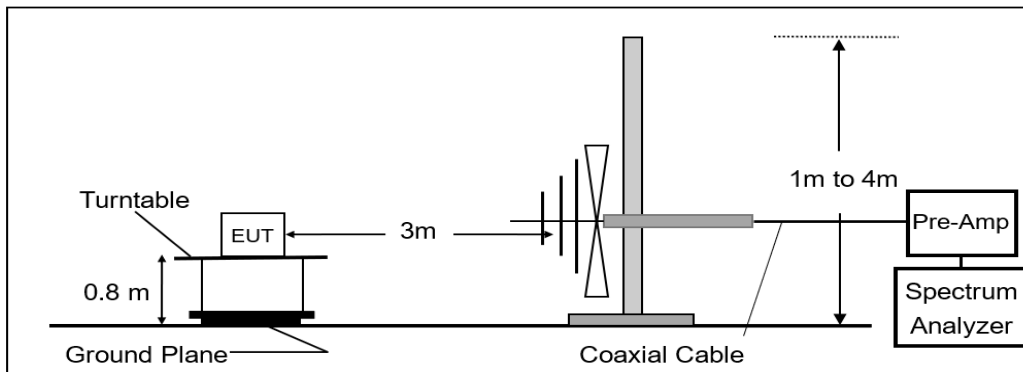
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

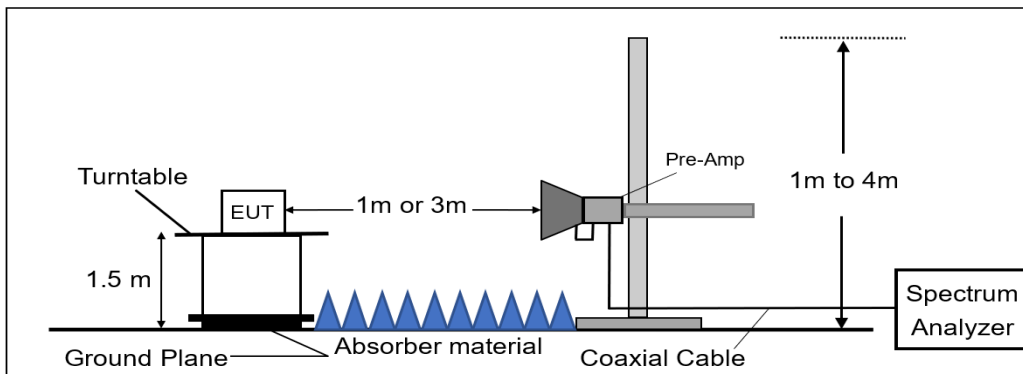
Radiated Emission Test Set-Up, Frequency Below 30MHz.



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(dBμV/m) *CL* = Cable Attenuation Factor (Cable Loss) (dB)
RA = Reading Amplitude(dBμV) *AG* = Amplifier Gain (dB)
AF = Antenna Factor (dBμV/m)

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

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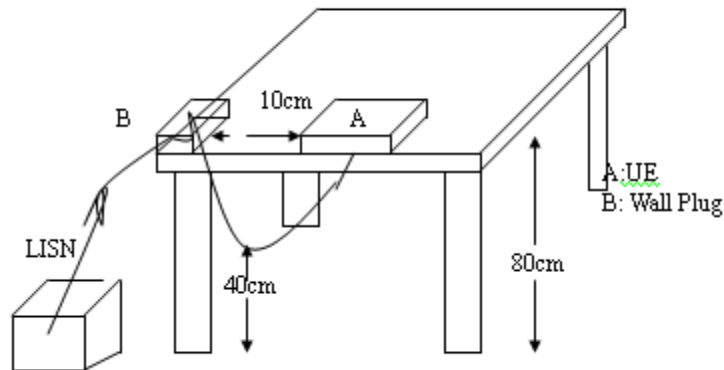
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6.6 AC Power Line Conducted Emission



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.

Level = Read Level + Factor

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

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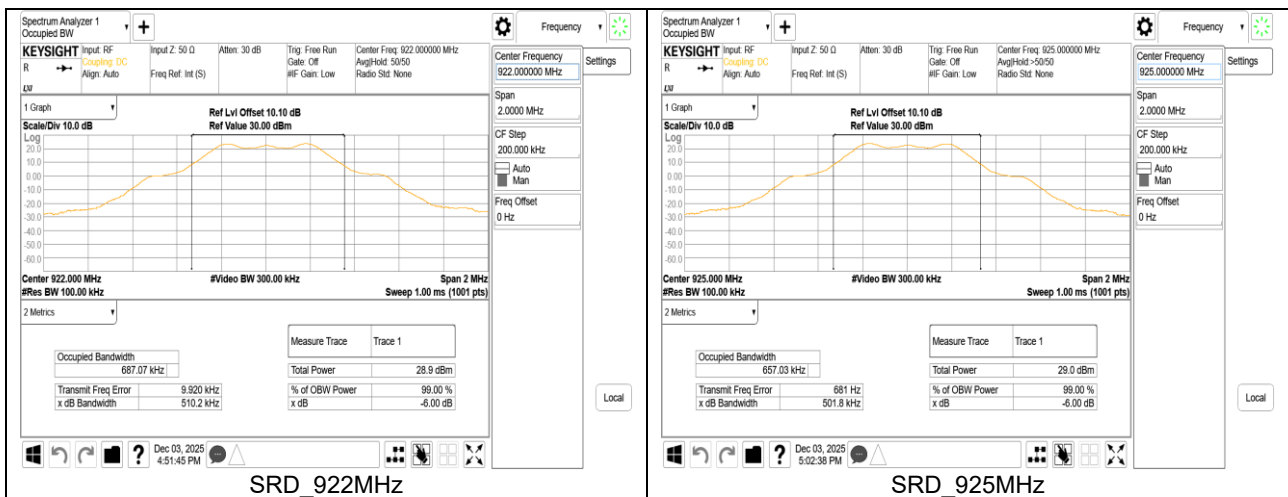
7 TEST RESULTS

7.1 Emission Bandwidth

7.1.1 6dB BW measurements

SRD mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
922	0.5102	≥ 0.5	PASS
925	0.518	≥ 0.5	PASS



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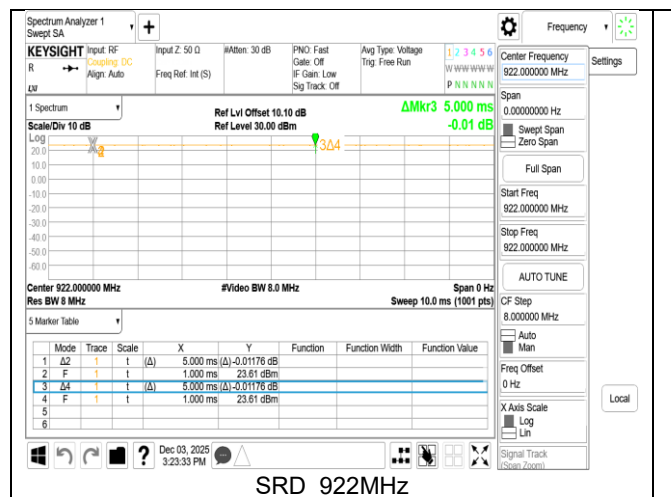
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7.2 Maximum Output Power

7.2.1 Duty Factor:

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/(100/100)) = 0$$

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) = 10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
SRD	100.00	0.00	0.00	0.01



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7.2.2 Conducted Power

SRD mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
99	922	26	23.36	30
114	925	25	23.59	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
99	922	26	23.19	30
114	925	25	23.45	30

***Note:**

1. Measured by power meter, cable loss 10.1 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

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7.3 Maximum Power Spectral Density

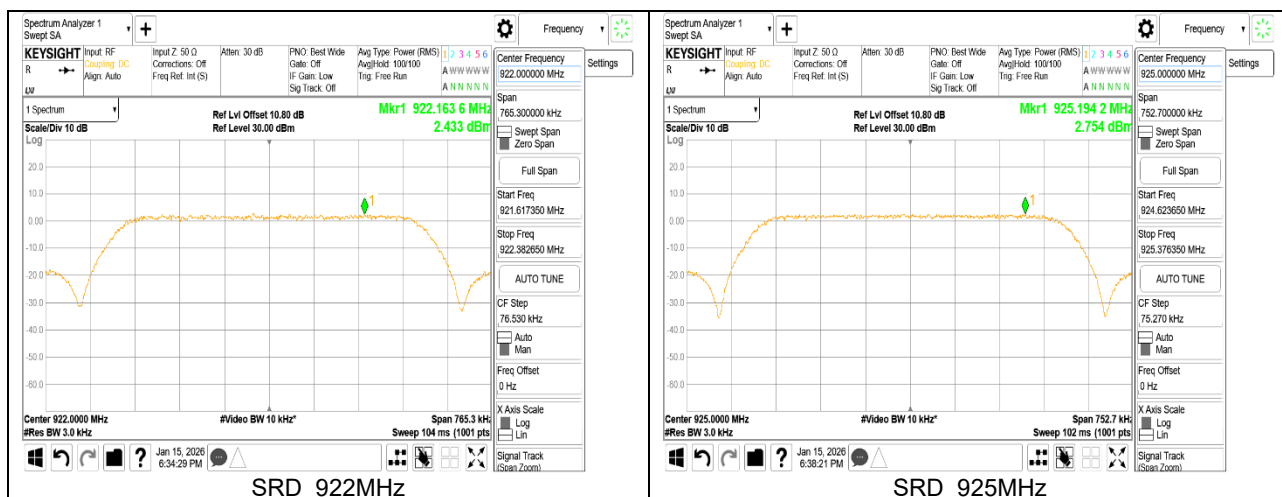
7.3.1 Average Power Spectral Density

SRD mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
922	2.433	8	PASS
925	2.754	8	PASS

***Note:**

1.cable loss as 10.8 dB that offsets in the spectrum



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7.4 Out of Band Emission

SRD_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 30dB (dBm)
922	23.63	-6.37
925	23.80	-6.20

***Note:**

- 1.cable loss as 10.1 dB that offsets in the spectrum
- 2.Refer to next page for plots.

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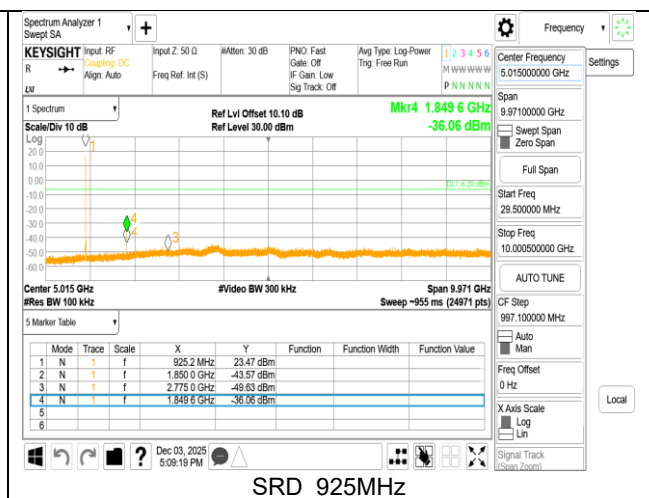
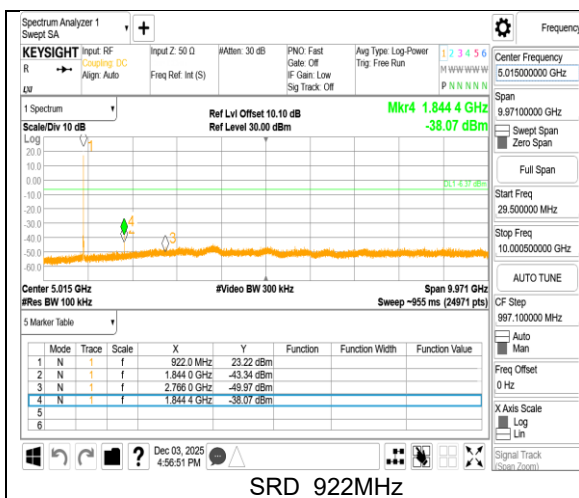
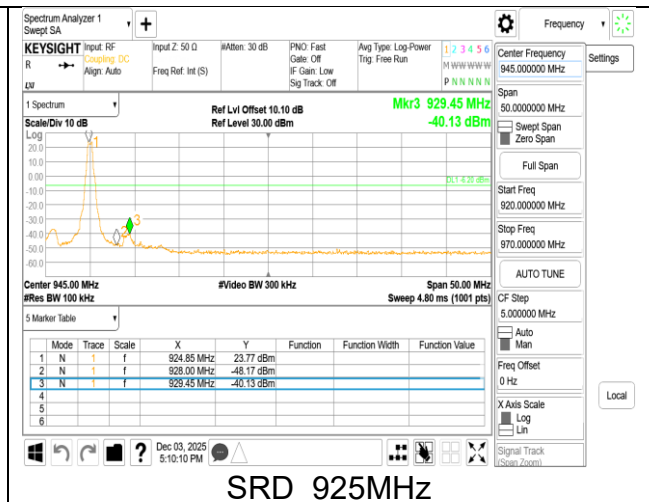
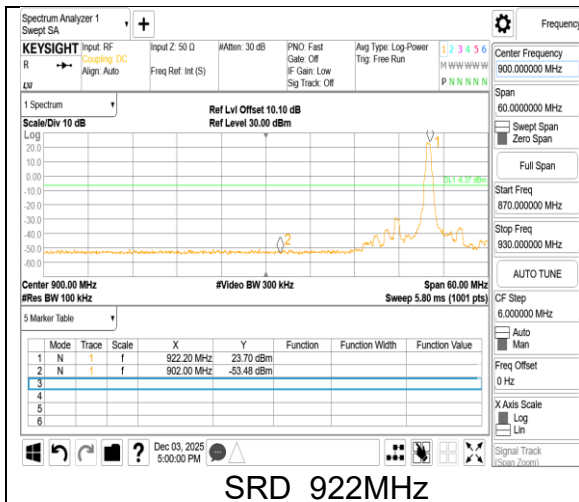
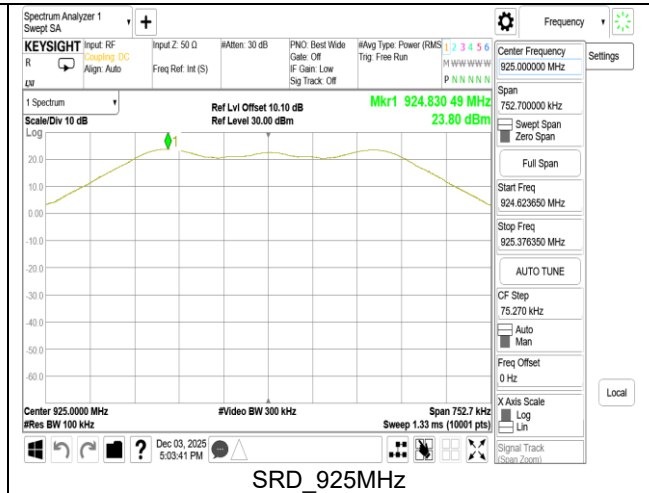
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7.5 Unwanted Emissions

7.5.1 Duty Factor

SRD_922MHz

Time ON of 100ms: 0.700 ms
Duty Cycle=0.7ms / 100ms= 0.007
Duty Cycle correction factor=20 LOG 0.007 = -43.09 dB

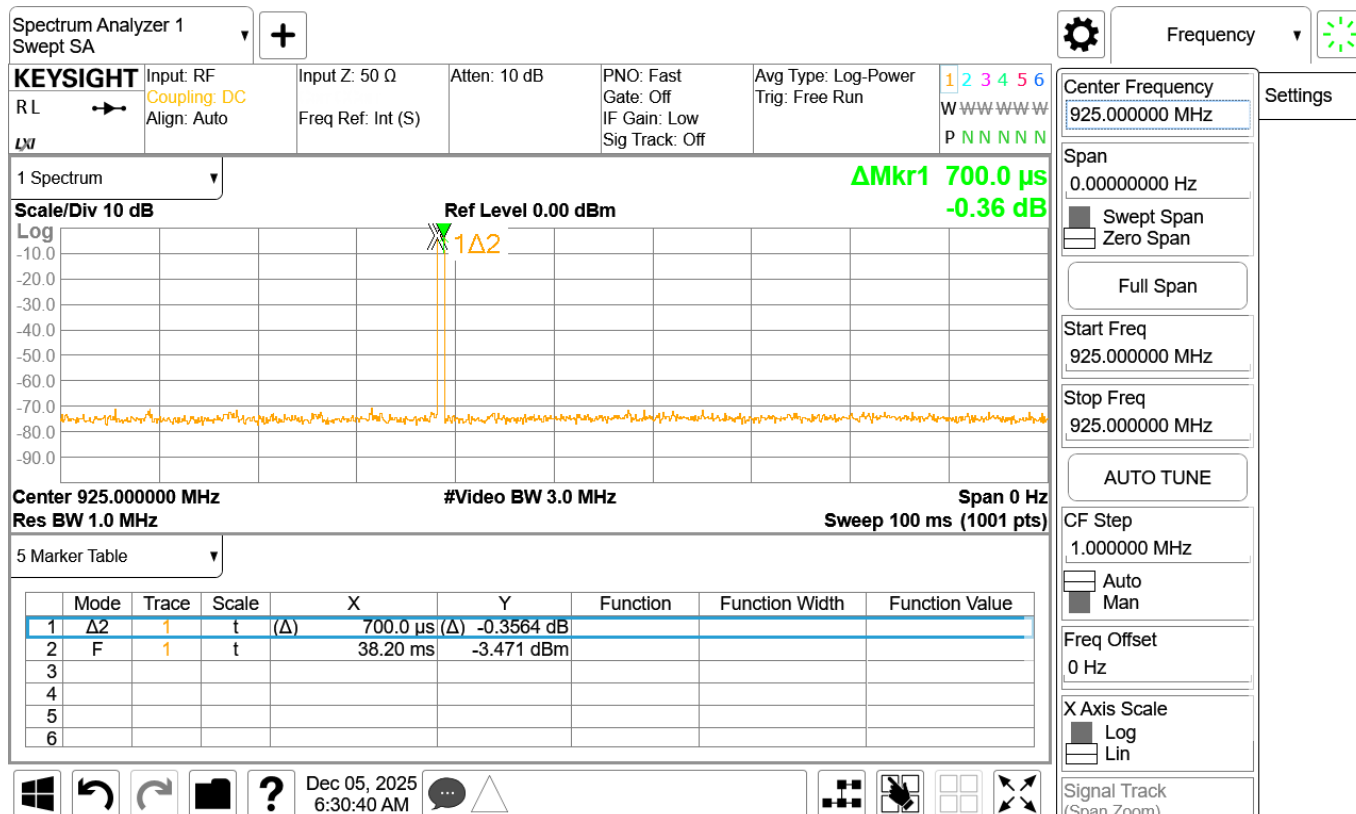
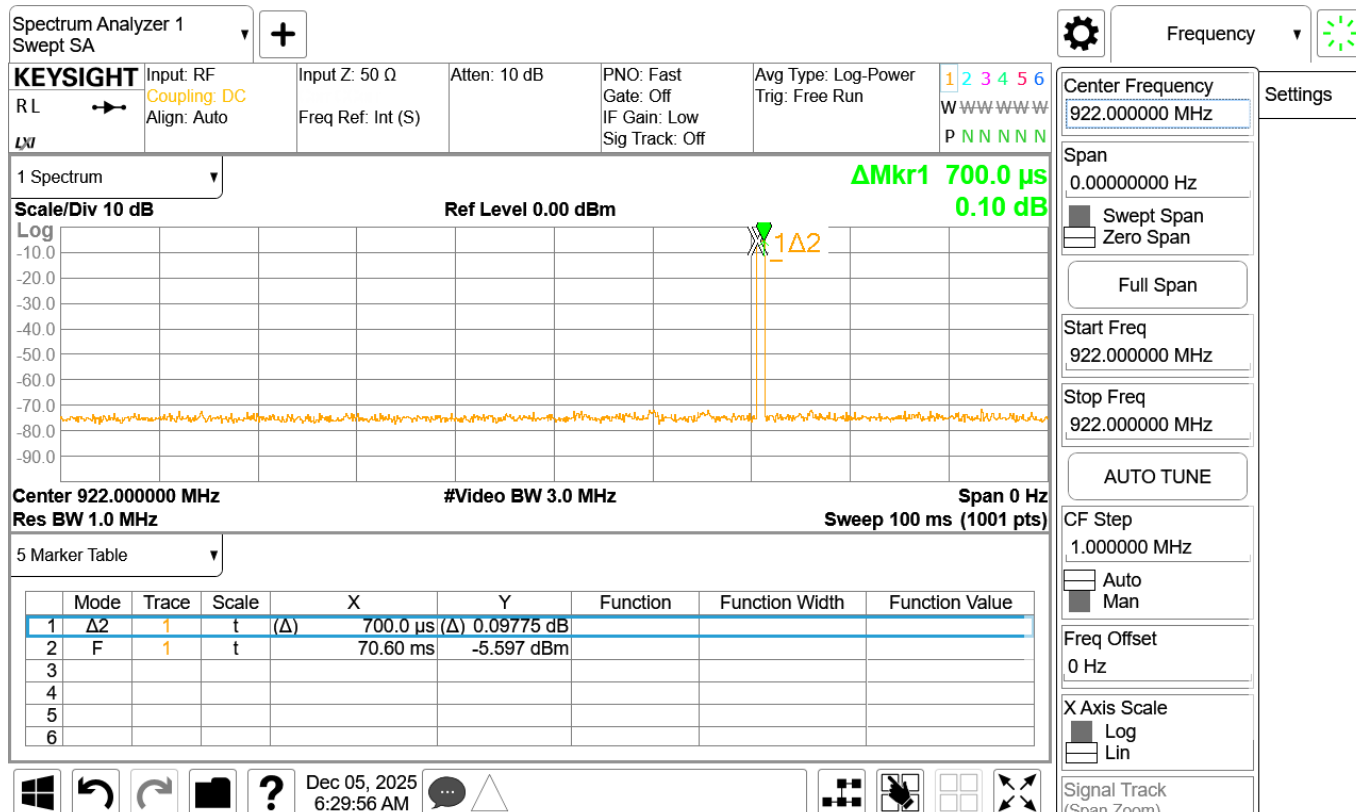
SRD_925MHz

Time ON of 100ms: 0.700 ms
Duty Cycle=0.7ms / 100ms= 0.007
Duty Cycle correction factor=20 LOG 0.007 = -43.09 dB

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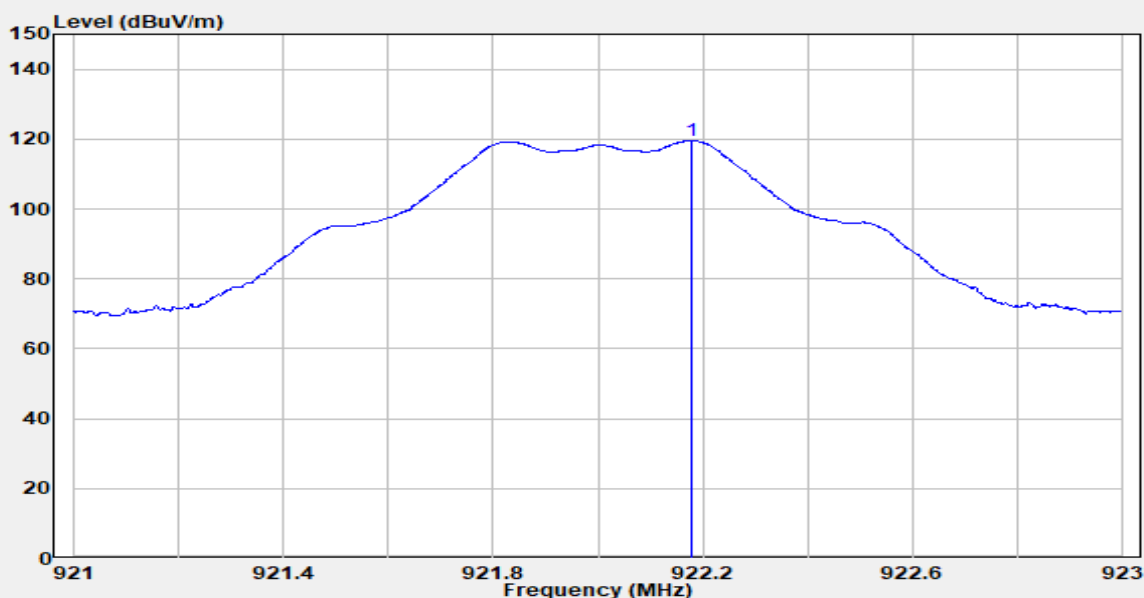
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7.5.2 Radiated Main and Band Edge Measurement Result

7.5.2.1 Main

Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :922 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
922.18	Peak	118.14	1.36	119.50	-	-

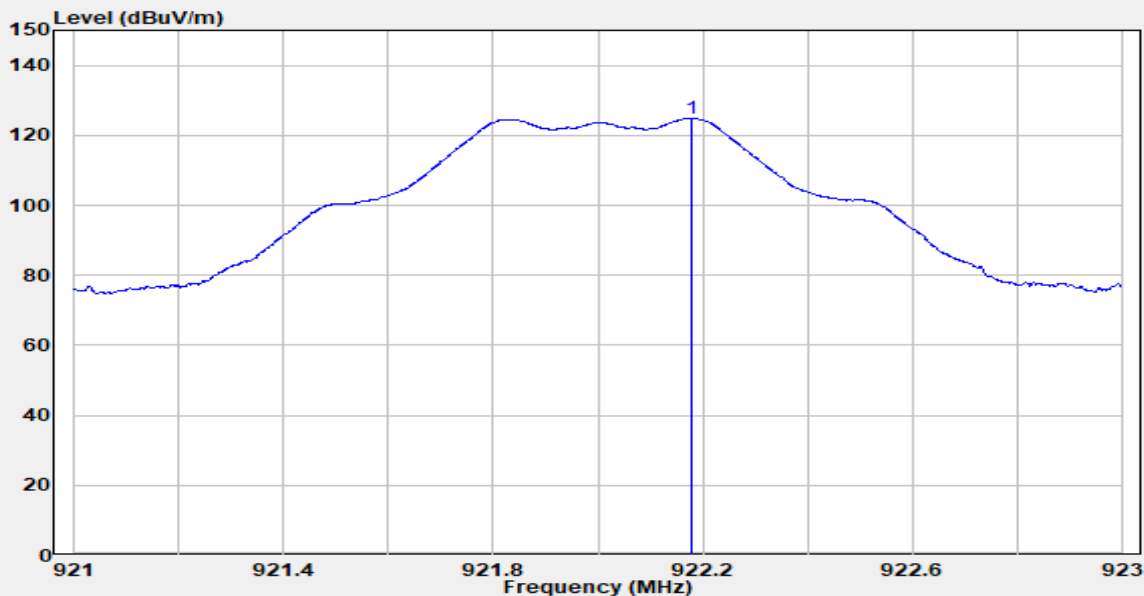
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Report Number :TERF2511003839ER
Operation Mode :SRD
Test Frequency :922 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-12-05
Temp./Humi. :19.3°C/56%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
922.18	Peak	123.46	1.36	124.82	-	-

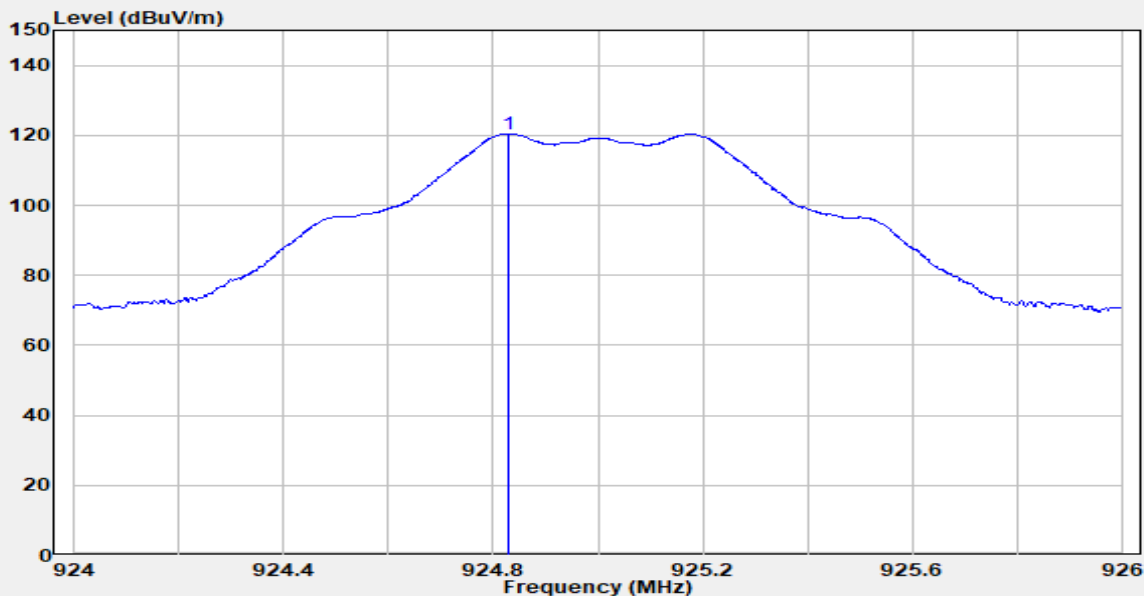
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Report Number :TERF2511003839ER
Operation Mode :SRD
Test Frequency :925 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-12-05
Temp./Humi. :19.3°C/56%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
924.830	Peak	119.07	1.41	120.49	-	-

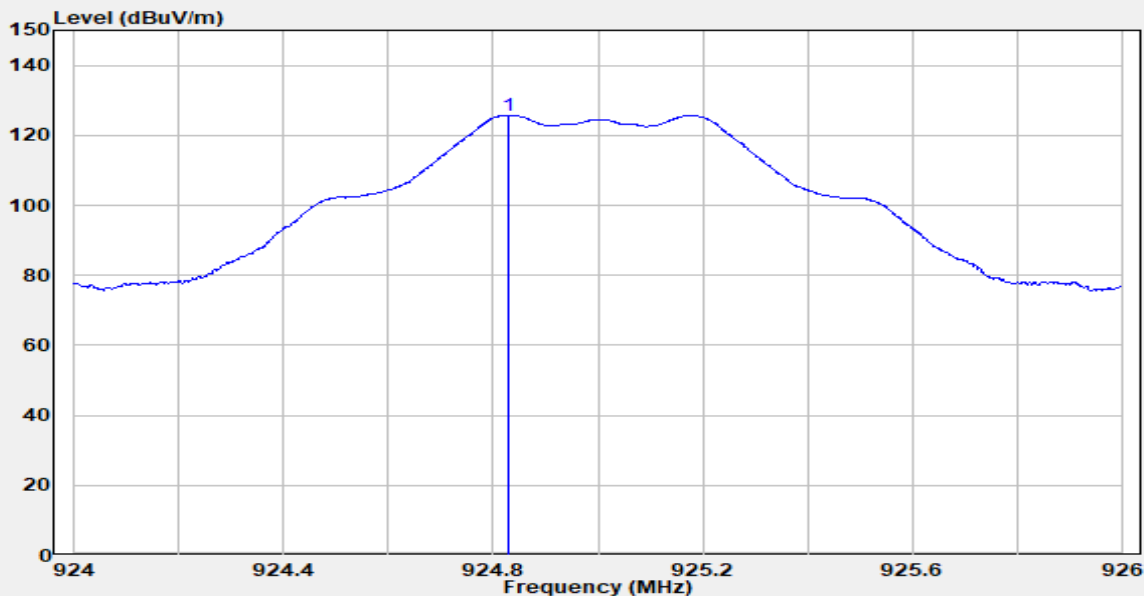
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Report Number :TERF2511003839ER
Operation Mode :SRD
Test Frequency :925 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-12-05
Temp./Humi. :19.3°C/56%
Antenna Pol. :Horizontal
Engineer :Alex Li



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
924.83	Peak	124.38	1.41	125.79	-	-

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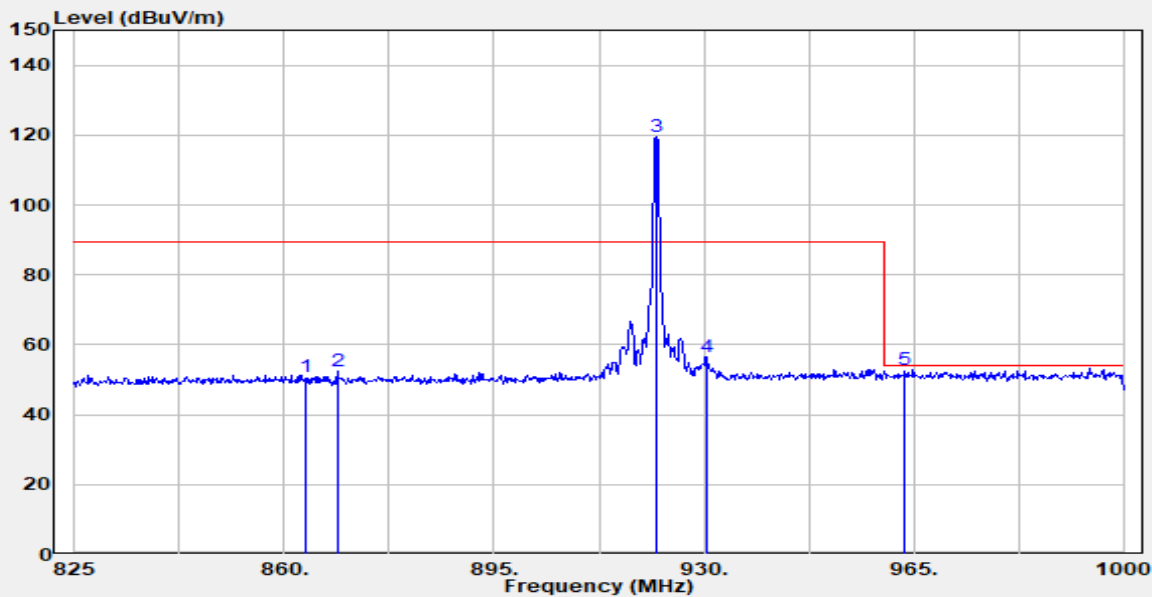
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7.5.2.2 Bandedge

Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :922 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



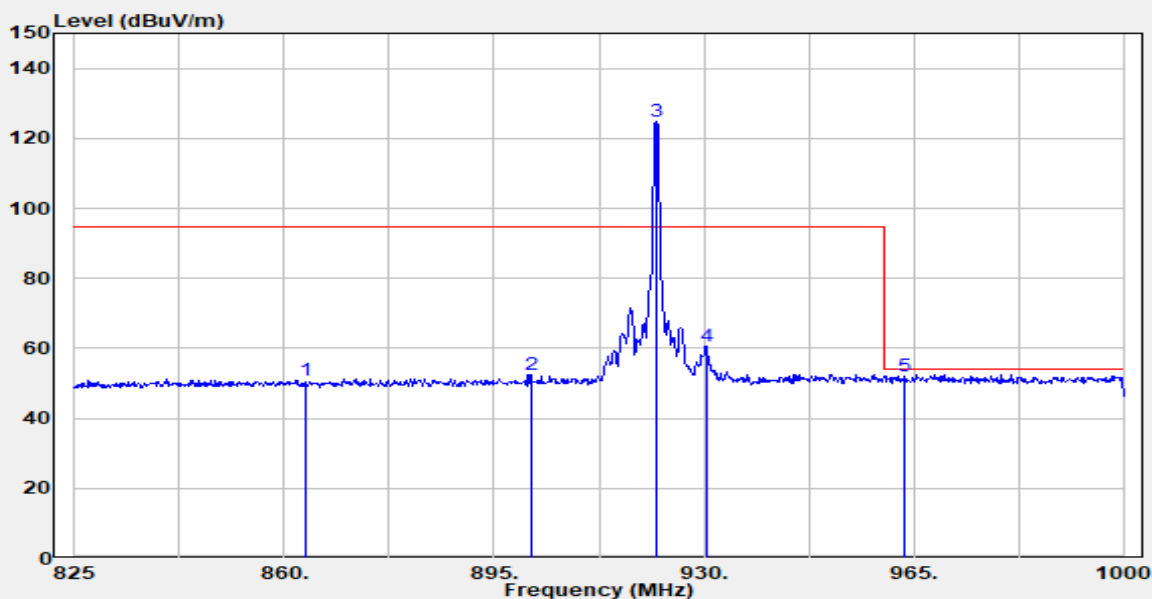
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
863.50	Peak	50.38	0.63	51.01	89.50	-38.49
868.93	Peak	51.74	0.55	52.29	89.50	-37.21
922.00	Peak	118.20	1.36	119.56	-	-
930.35	Peak	55.00	1.42	56.42	89.50	-33.08
963.43	Peak	51.06	1.72	52.78	54.00	-1.22

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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :922 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



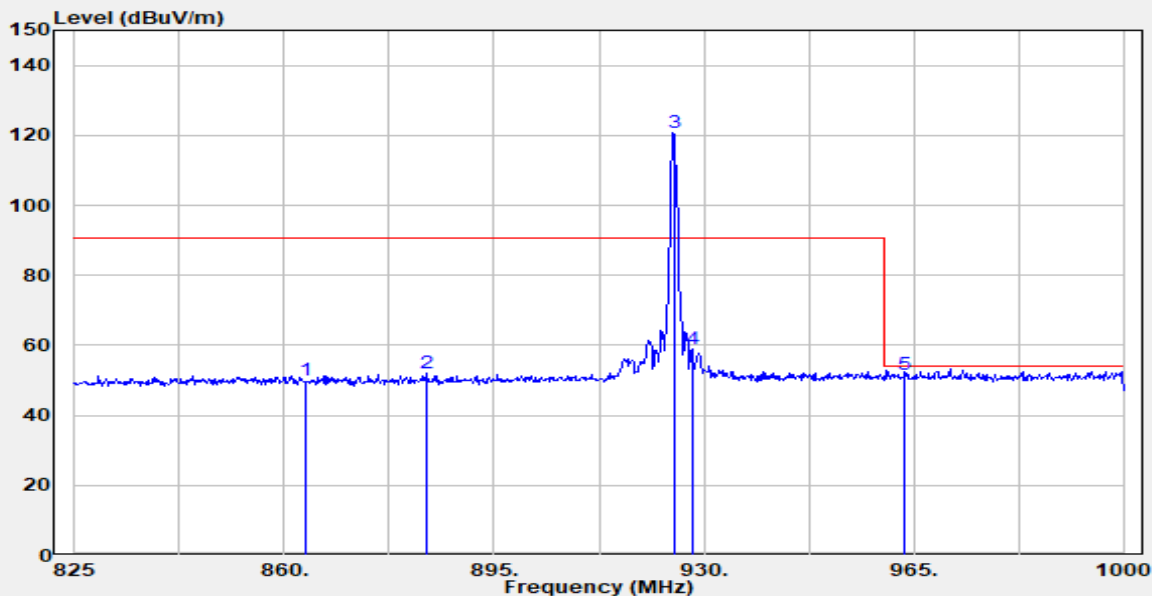
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
863.50	Peak	50.18	0.63	50.81	94.82	-44.01
901.13	Peak	51.86	0.69	52.55	94.82	-42.27
922.00	Peak	123.52	1.36	124.88	-	-
930.35	Peak	59.19	1.42	60.61	94.82	-34.21
963.43	Peak	50.17	1.72	51.89	54.00	-2.11

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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :925 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



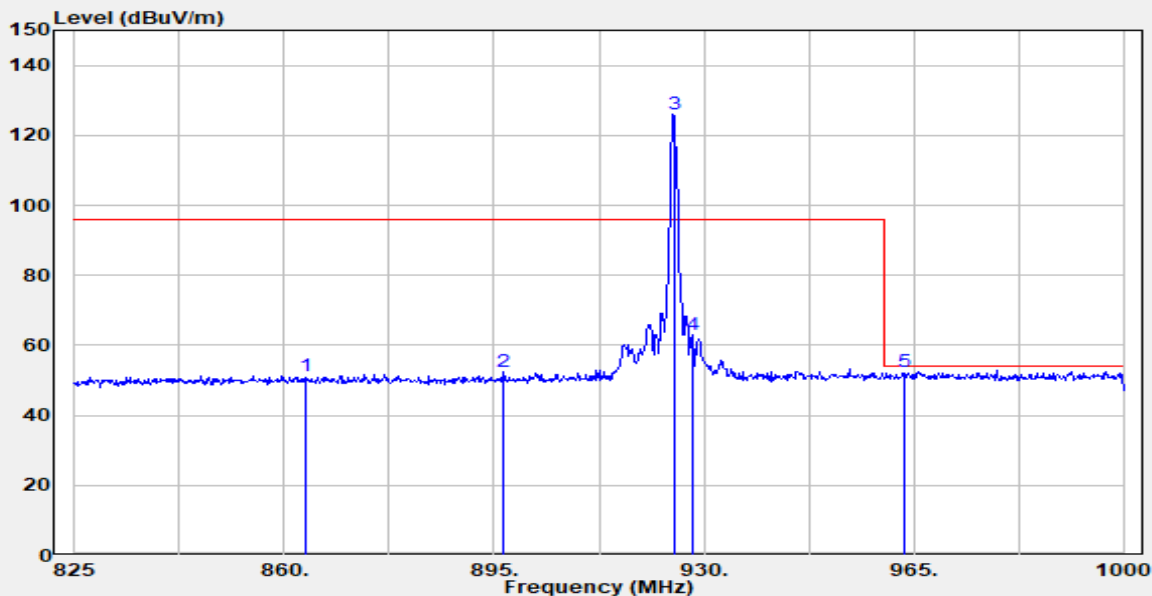
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
863.500	Peak	49.56	0.63	50.19	90.49	-40.30
883.625	Peak	51.48	0.56	52.04	90.49	-38.45
925.000	Peak	119.13	1.42	120.55	-	-
928.075	Peak	57.42	1.42	58.84	90.49	-31.65
963.425	Peak	50.07	1.72	51.79	54.00	-2.21

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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :925 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
863.50	Peak	50.51	0.63	51.14	95.79	-44.65
896.40	Peak	51.62	0.62	52.24	95.79	-43.55
925.00	Peak	124.43	1.42	125.85	-	-
928.25	Peak	61.46	1.41	62.87	95.79	-32.92
963.43	Peak	50.89	1.72	52.61	54.00	-1.39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

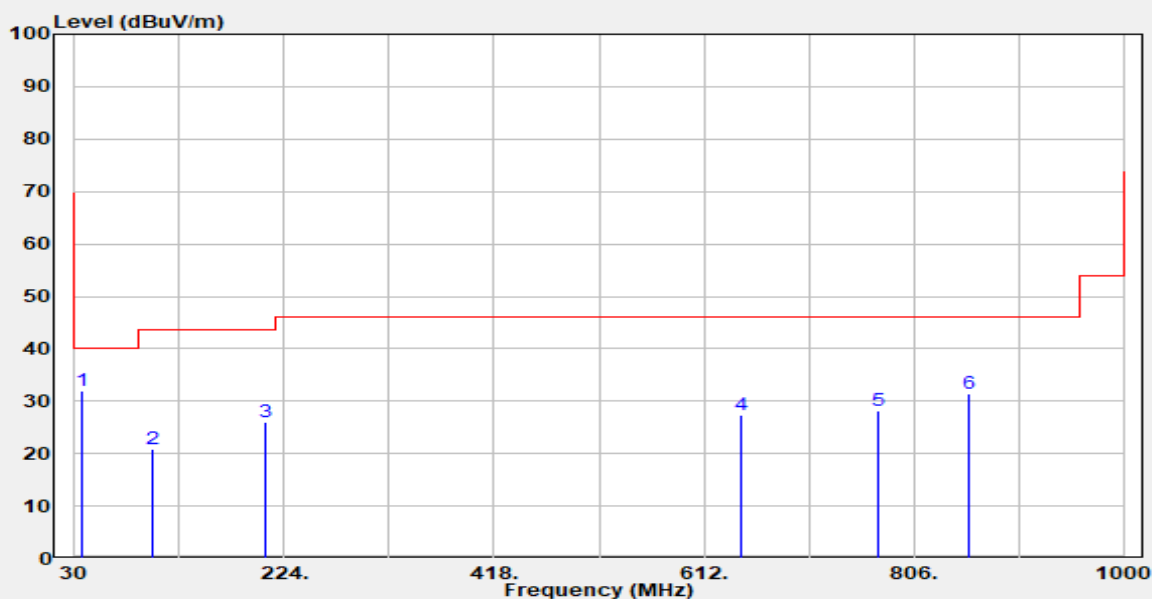
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7.5.3 Radiated Spurious Emission

Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :922 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



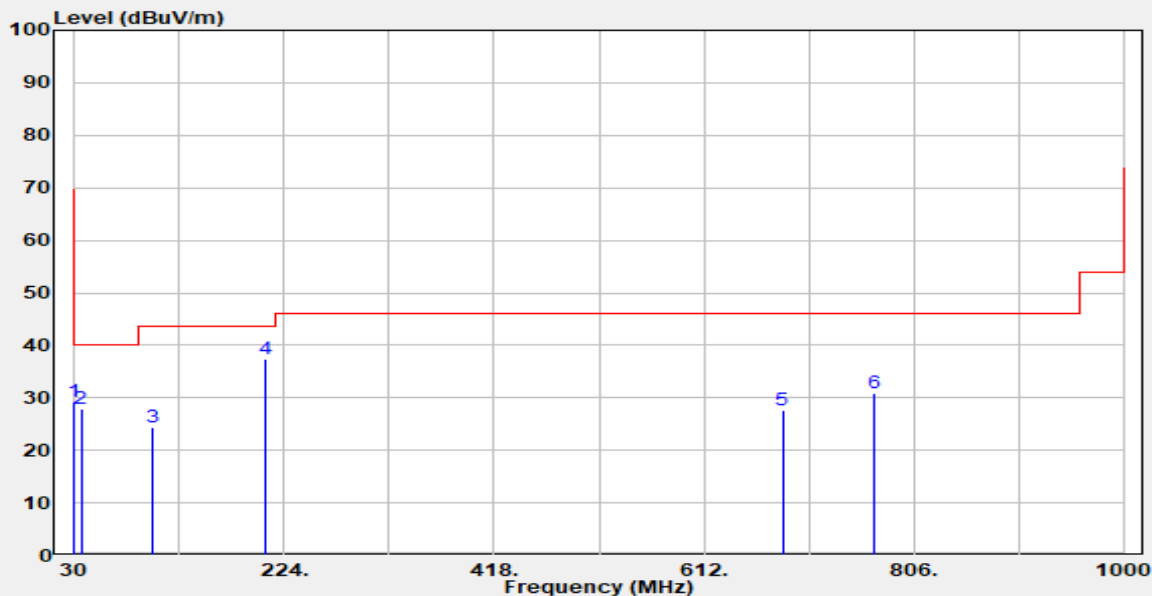
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
36.79	Peak	44.98	-12.94	32.04	40.00	-7.96
101.78	Peak	37.27	-16.43	20.84	43.50	-22.66
206.54	Peak	40.84	-14.77	26.07	43.50	-17.43
645.95	Peak	30.12	-2.84	27.28	46.00	-18.72
773.99	Peak	28.63	-0.44	28.19	46.00	-17.81
857.41	Peak	30.76	0.62	31.38	46.00	-14.62

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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :922 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



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
30.00	Peak	43.29	-14.15	29.14	40.00	-10.86
35.82	Peak	41.07	-13.23	27.84	40.00	-12.16
101.78	Peak	40.80	-16.43	24.37	43.50	-19.13
206.54	QP	52.10	-14.77	37.33	43.50	-6.17
684.75	Peak	30.00	-2.37	27.63	46.00	-18.37
770.11	Peak	31.42	-0.46	30.96	46.00	-15.04

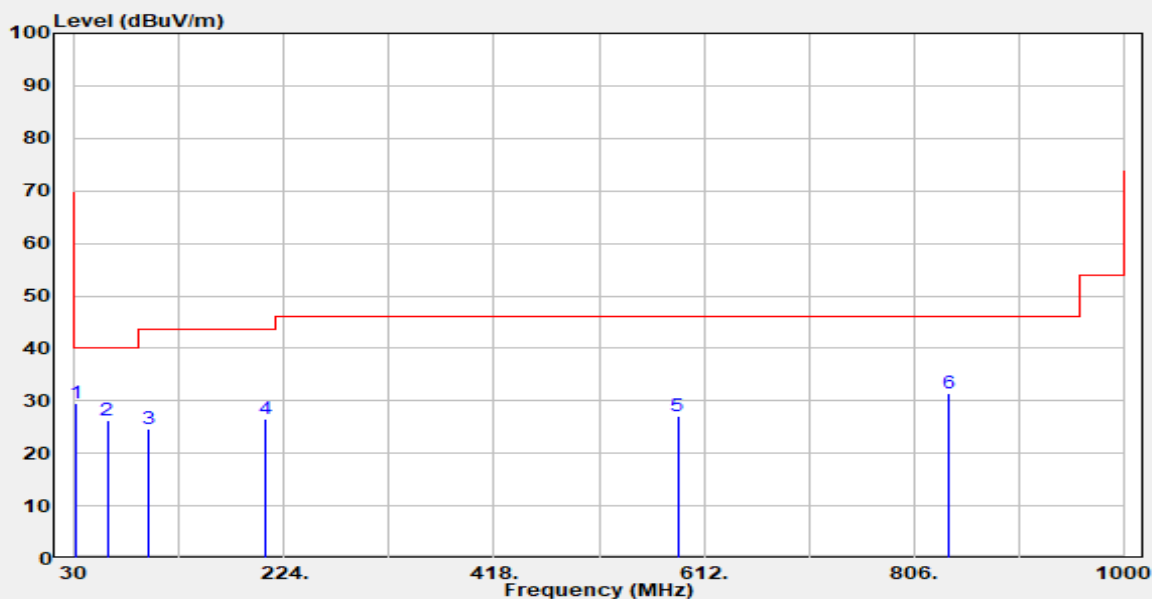
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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :925 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



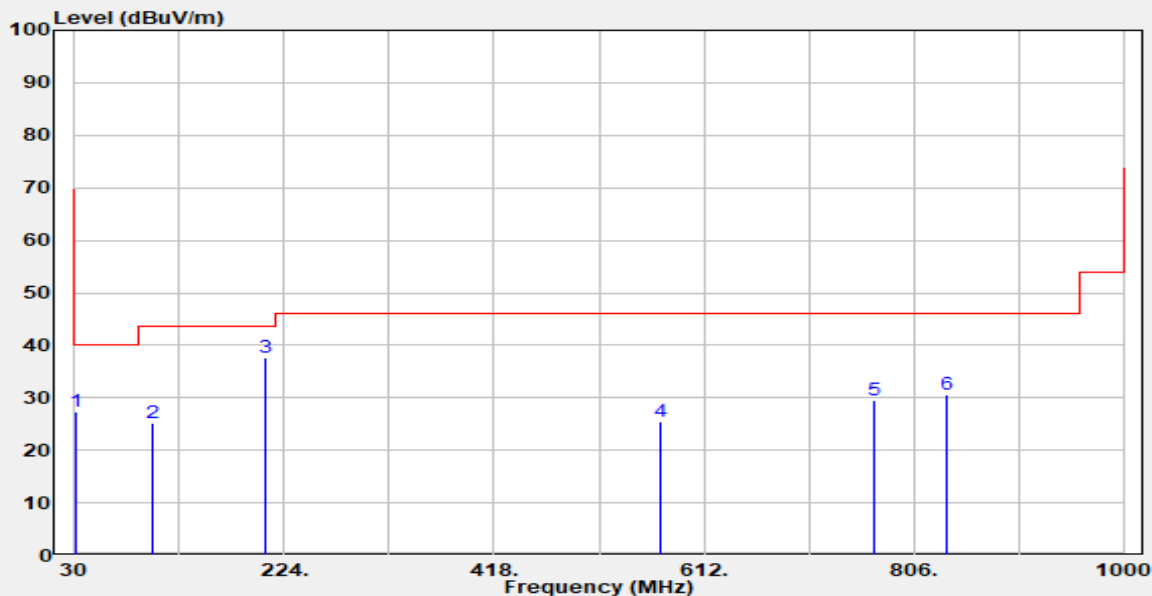
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
30.970	Peak	43.12	-13.65	29.47	40.00	-10.53
60.070	Peak	38.60	-12.29	26.31	40.00	-13.69
98.870	Peak	41.68	-16.95	24.73	43.50	-18.77
205.570	Peak	41.33	-14.80	26.53	43.50	-16.97
587.750	Peak	30.87	-3.86	27.01	46.00	-18.99
838.980	Peak	31.19	0.35	31.55	46.00	-14.45

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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :925 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	40.95	-13.66	27.29	40.00	-12.71
101.78	Peak	41.53	-16.43	25.10	43.50	-18.40
205.57	QP	52.50	-14.80	37.70	43.50	-5.80
571.26	Peak	29.67	-4.31	25.36	46.00	-20.64
770.11	Peak	30.04	-0.46	29.58	46.00	-16.42
836.07	Peak	30.29	0.28	30.57	46.00	-15.43

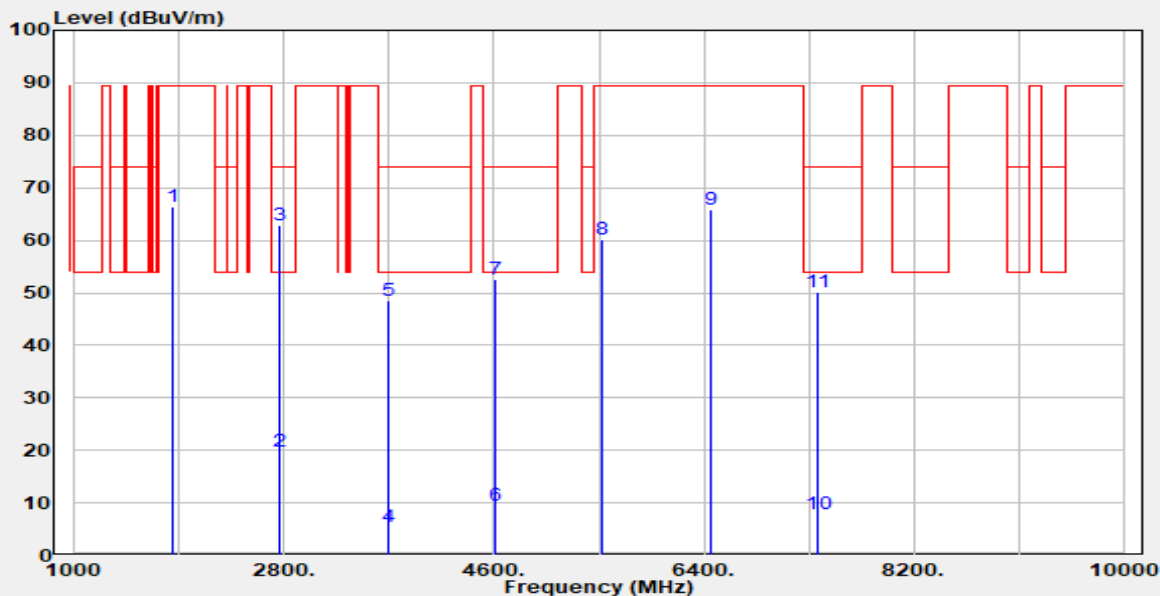
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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :922 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1844.00	Peak	72.59	-6.06	66.53	89.50	-22.97
2766.00	Average	-	-	19.67	54.00	-34.33
2766.00	Peak	65.65	-2.89	62.76	74.00	-11.24
3688.00	Average	-	-	5.34	54.00	-48.66
3688.00	Peak	49.77	-1.34	48.43	74.00	-25.57
4610.00	Average	-	-	9.53	54.00	-44.47
4610.00	Peak	52.24	0.38	52.62	74.00	-21.38
5532.00	Peak	58.40	1.71	60.11	89.50	-29.39
6454.00	Peak	61.19	4.67	65.86	89.50	-23.64
7376.00	Average	-	-	7.76	54.00	-46.24
7376.00	Peak	42.79	7.46	50.25	74.00	-23.75

Average Duty Cycle Factor=-43.09 (dB)

Average Level= Peak Level+ Duty Cycle Factor

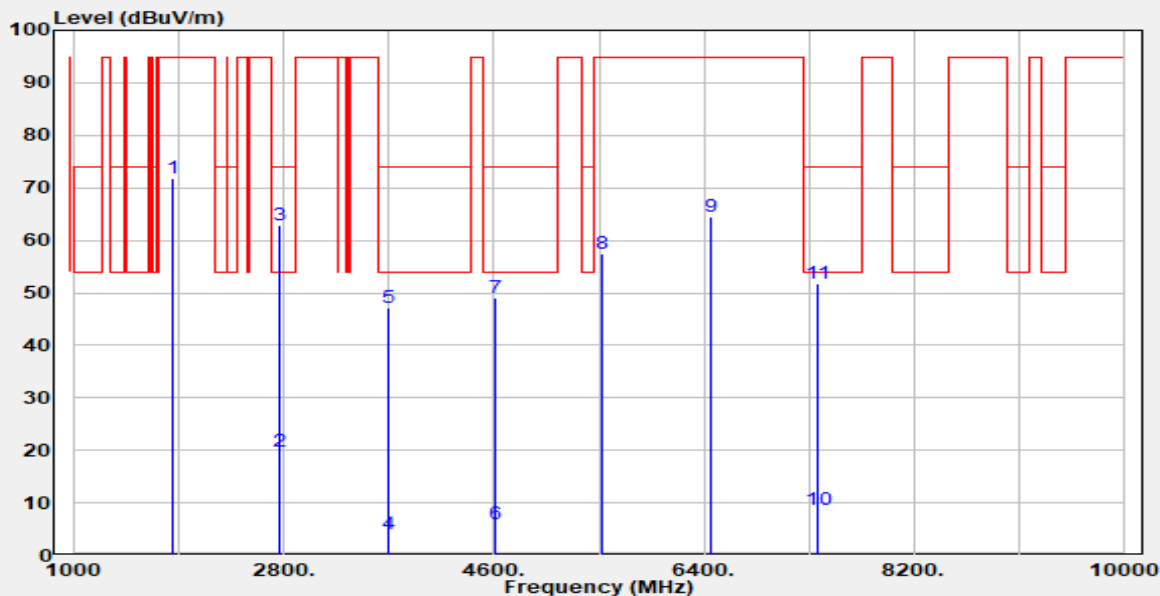
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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :922 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1844.00	Peak	77.78	-6.06	71.72	94.82	-23.10
2766.00	Average	-	-	19.80	54.00	-34.20
2766.00	Peak	65.78	-2.89	62.89	74.00	-11.11
3688.00	Average	-	-	4.13	54.00	-49.87
3688.00	Peak	48.56	-1.34	47.22	74.00	-26.78
4610.00	Average	-	-	5.83	54.00	-48.17
4610.00	Peak	48.54	0.38	48.92	74.00	-25.08
5532.00	Peak	55.63	1.71	57.34	94.82	-37.48
6454.00	Peak	59.87	4.67	64.54	94.82	-30.28
7376.00	Average	-	-	8.63	54.00	-45.37
7376.00	Peak	44.26	7.46	51.72	74.00	-22.28

Average Duty Cycle Factor=-43.09 (dB)

Average Level= Peak Level+ Duty Cycle Factor

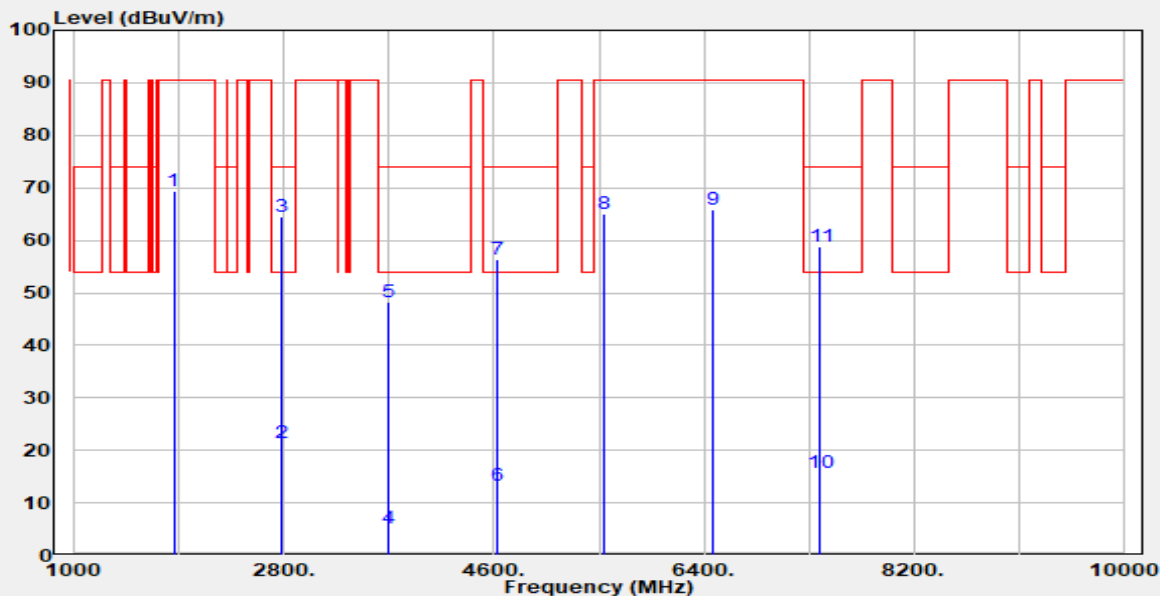
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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :925 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1850.00	Peak	75.31	-5.98	69.33	90.49	-21.16
2775.00	Average	-	-	21.54	54.00	-32.46
2775.00	Peak	67.42	-2.79	64.63	74.00	-9.37
3700.00	Average	-	-	5.02	54.00	-48.98
3700.00	Peak	49.38	-1.27	48.11	74.00	-25.89
4625.00	Average	-	-	13.35	54.00	-40.65
4625.00	Peak	56.04	0.40	56.44	74.00	-17.56
5550.00	Peak	63.40	1.72	65.12	90.49	-25.37
6475.00	Peak	61.19	4.75	65.94	90.49	-24.55
7400.00	Average	-	-	15.71	54.00	-38.29
7400.00	Peak	51.41	7.39	58.80	74.00	-15.20

Average Duty Cycle Factor=-43.09 (dB)

Average Level= Peak Level+ Duty Cycle Factor

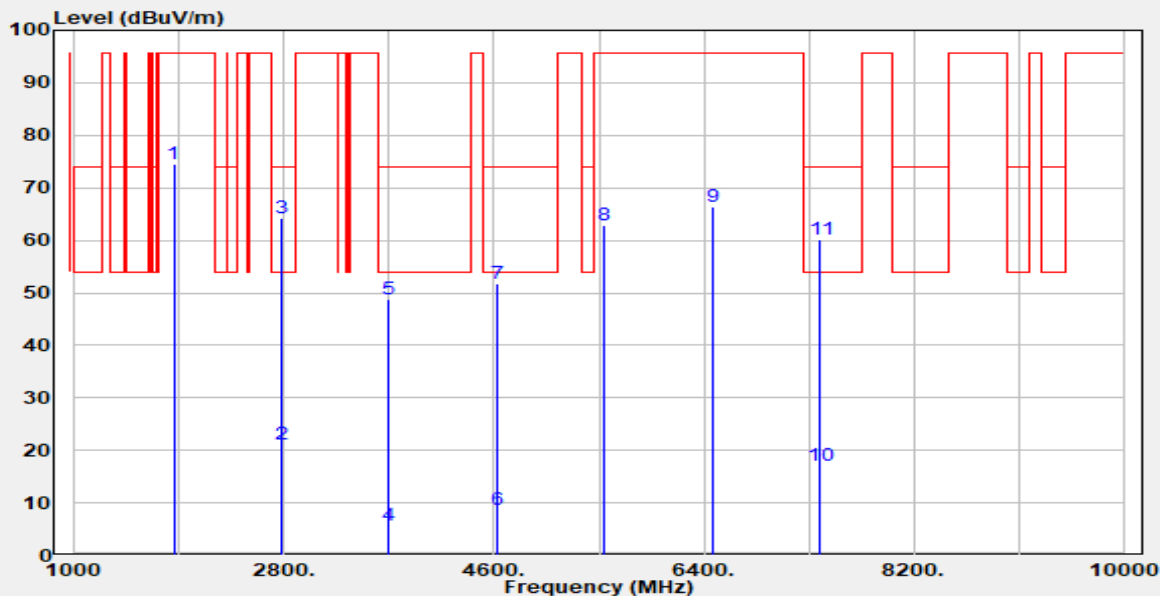
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Report Number :TERF2511003839ER
 Operation Mode :SRD
 Test Frequency :925 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC C
 Test Date :2025-12-05
 Temp./Humi. :19.3°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1850.00	Peak	80.51	-5.98	74.53	95.79	-21.26
2775.00	Average	-	-	21.03	54.00	-32.97
2775.00	Peak	66.91	-2.79	64.12	74.00	-9.88
3700.00	Average	-	-	5.59	54.00	-48.41
3700.00	Peak	49.95	-1.27	48.68	74.00	-25.32
4625.00	Average	-	-	8.73	54.00	-45.27
4625.00	Peak	51.42	0.40	51.82	74.00	-22.18
5550.00	Peak	61.15	1.72	62.87	95.79	-32.92
6475.00	Peak	61.77	4.75	66.52	95.79	-29.27
7400.00	Average	-	-	17.16	54.00	-36.84
7400.00	Peak	52.86	7.39	60.25	74.00	-13.75

Average Duty Cycle Factor=-43.09 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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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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台灣檢驗科技股份有限公司

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Member of SGS Group

Report Number :TERF2511003839ER

Test Site :Conduction C

Test Mode :SRD

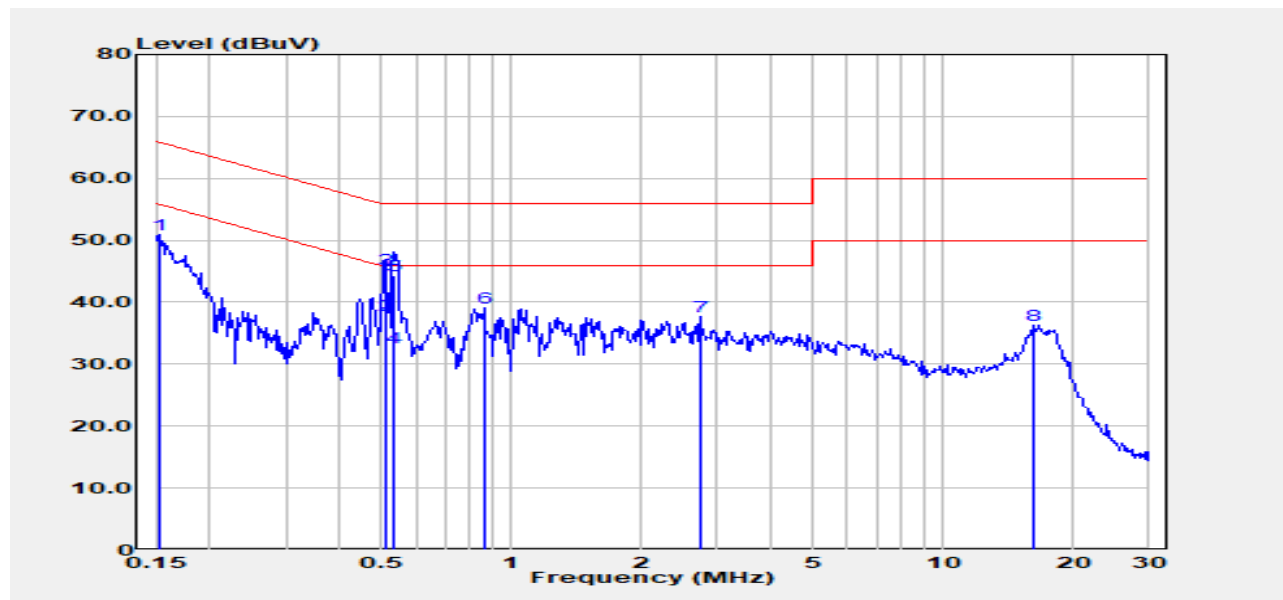
Test Date :2025-12-08

Power :120V/60Hz

Temp./Humi. :25.8°C/59%

Probe :L1

Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.154	Peak	40.31	10.65	50.96	65.79	-14.83
0.509	Average	27.20	10.62	37.82	46.00	-8.18
0.509	QP	34.60	10.62	45.22	56.00	-10.78
0.532	Average	22.10	10.62	32.72	46.00	-13.28
0.532	QP	33.70	10.62	44.32	56.00	-11.68
0.862	Peak	28.40	10.67	39.07	56.00	-16.93
2.737	Peak	26.85	10.83	37.68	56.00	-18.32
16.141	Peak	25.29	11.10	36.39	60.00	-23.61

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Report Number :TERF2511003839ER

Test Site :Conduction C

Test Mode :SRD

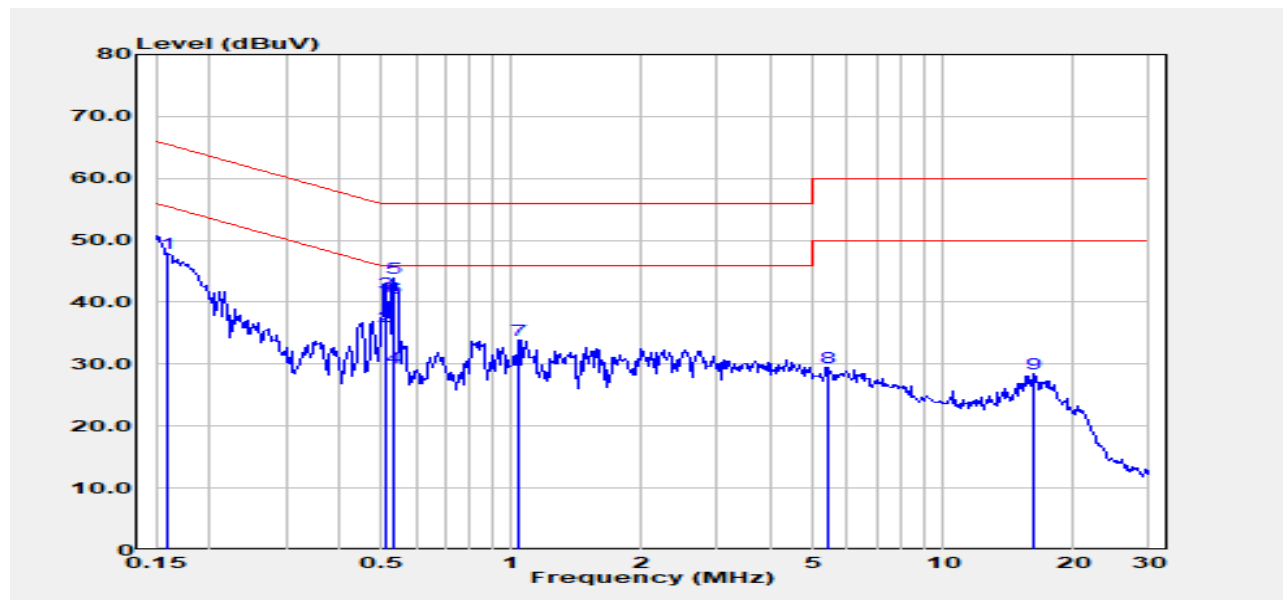
Test Date :2025-12-08

Power :120V/60Hz

Temp./Humi. :25.8°C/59%

Probe :N

Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.159	Peak	37.30	10.66	47.96	65.51	-17.55
0.509	Average	25.40	10.60	36.00	46.00	-10.00
0.509	QP	30.80	10.60	41.40	56.00	-14.60
0.532	Average	18.90	10.61	29.51	46.00	-16.49
0.532	Peak	33.36	10.61	43.97	56.00	-12.03
0.532	QP	30.00	10.61	40.61	56.00	-15.39
1.040	Peak	23.15	10.67	33.83	56.00	-22.17
5.444	Peak	18.50	10.94	29.44	60.00	-30.56
16.141	Peak	17.38	11.10	28.48	60.00	-31.52

~ End of Report ~

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