ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

EUT Description:	DK-B1
Applicant:	Alif Semiconductor, Inc 7901 Stoneridge Dr STE300, Pleasanton, CA 94588
Manufacturer:	Alif Semiconductor, Inc 7901 Stoneridge Dr STE300, Pleasanton, CA 94588
Brand Name:	Balletto Devkit
Model No./ISED HVIN:	DK-B1
ISED PMN:	Balletto Devkit
Report Number:	TERF2608002912E2
FCC ID	2A58G-DKB1
IC:	35789-DKB1
Date of EUT Received:	June 3, 2026
Date of Test:	August 13, 2026 ~ August 19, 2026
Issue Date:	September 4, 2026

Approved By _____

Vito Pei

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 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

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

Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2608002912E2	00	Original	September 4, 2026	Yuri Tsai	

Note:

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

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	DK-B1
Brand Name	Balletto Devkit
Model No./ISED HVIN	DK-B1
Firmware Version	1.2.20
Power Supply	5 Vdc
Test Software (Name/Version)	Tera Term/4.106

1.2 RF Specification

Radio Technology	802.15.4
Frequency Range	2405 ~ 2480MHz
Channel number	16 channels
Modulation type	O-QPSK
Transmit Power	-1.25 dBm

1.3 Antenna Designation

Ant. Type	Freq. (MHz)	Peak Gain(dBi)
Chip	2400~2483.5	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. 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.

1.4 Operating Frequencies

2400~2483.5 MHz	
CH	Freq. (MHz)
11	2405
12	2410
13	2415
14	2420
15	2425
16	2430
17	2435
18	2440
19	2445
20	2450
21	2455
22	2460
23	2465
24	2470
25	2475
26	2480

1.5 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. 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.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among modes below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	DATA RATE (Mbps)
CONDUCTED TEST			
802.15.4	11 to 26	11,18,26	-

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	DATA RATE (Mbps)
802.15.4	11 to 26	18	-
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	DATA RATE (Mbps)
802.15.4	11 to 26	11,18,26	-

2 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen § 7.4.2	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §6.3.2	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §6.3.1.a RSS-Gen § 5.1	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §6.6 RSS-Gen §7.4.3 RSS-Gen §7.5	Out of Band Emission	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §6.6 RSS-Gen §7.4.3 RSS-Gen §7.5	Unwanted Emission	Compliant
§15.247(e)	RSS-247 §6.3.1.b	Power Spectral Density	Compliant
§15.203	N/A	Antenna Requirement	Compliant

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart C §15.247
2. ANSI C63.10:2020
3. ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
4. FCC KDB 558074 D01 15.247 Meas Guidance v05r02
5. ISED RSS-247, Issue 4, Jul. 24, 2025
6. ISED RSS-Gen, Issue 6, Jul. 30, 2026

2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 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	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 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.

2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6 / FAC 1	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G FAC A	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted F	Willy Jiang	11824114552614-03039	24.8°C / 65%	2026/08/19 ~ 2026/08/19
Radiated	SAC C	Alex Li	11824114552614-03039	21.8~23.0°C / 64~65%	2026/08/18 ~ 2026/08/18
Conduction	Conducted C	Alex Li	11824114552614-03039	24.3°C / 51%	2026/08/19 ~ 2026/08/19

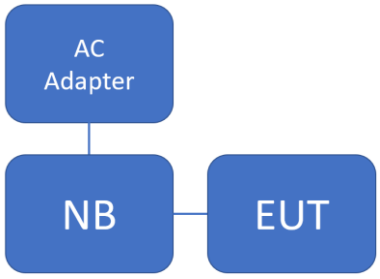
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 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.
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.

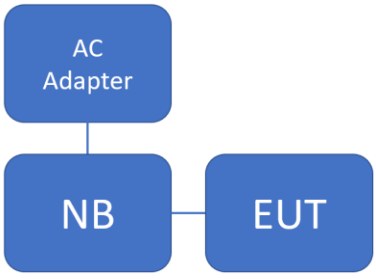
3.2 Diagrams

Conduction Setup



Conducted Setup

Radiated Setup



3.3 List

3.3.1 Conduction Setup

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)
Notebook	Lenovo	ThinkBook 14 G4 IAP	MP2K2PPA	N/A	N/A
AC Adapter	Lenovo	ADLX65YAC2D	N/A	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T14	P0003332	N/A	N/A
USB Cable	MI	SJX10ZM		N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	ThinkBook 14 G4 IAP	MP2K2PPA	N/A	N/A
AC Adapter	Lenovo	ADLX65YAC2D	N/A	N/A	N/A
USB Cable	CnC Tech	N/A	N/A	N/A	N/A

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
DC Block	PASTERNACK	PE8210	RF38	11/13/2025	11/12/2026
DC Power Supply	Gwinstek	SPS-3610	GEV856767	10/14/2025	10/13/2026
Power Meter	Anritsu	ML2496A	1326001	07/08/2026	07/07/2027
Power Sensor	Anritsu	MA2411B	1315048	07/08/2026	07/07/2027
Power Sensor	Anritsu	MA2411B	1315049	07/08/2026	07/07/2027
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/02/2026	02/01/2027
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	03/02/2026	03/01/2027
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Attenuator	Woken	WATT-218FS-10	RF17	11/13/2025	11/12/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/14/2025	11/13/2026
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/06/2026	02/05/2027
Horn Antenna	RF SPIN	DRH0844	KV2E12A0844	01/23/2026	01/22/2027
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-6000+EMC105-SM-SM-12000+15	W13.01+150813+2310002+15	11/13/2025	11/12/2026
Coaxial Cable	SUCCOFLEX	SUCCOFLEX 102	MY2153/2+MY520415/2	11/13/2025	11/12/2026
1G Low pass Filter	Woken	EWT-56-0019	RF156	11/13/2025	11/12/2026
2400-2483.5 Notch Filter	Titan Microwave	T04N240024835OS01	RF208	11/13/2025	11/12/2026
EMI Test Receiver	R&S	ESU 40	100363	04/29/2026	04/28/2027
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/02/2026	02/01/2027
Test Software	audix	e3	E3 210616 SGS Ver.9 (C)	N.C.R	N.C.R

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	03/27/2026	03/26/2027
EMI Test Receiver	R&S	ESCI	101342	04/16/2026	04/15/2027
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/29/2026	06/28/2027
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2026	03/26/2027
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.

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

FCC
For systems using digital modulation in the 2400-2483.5 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.
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

ISED
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

Note:
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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.

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.

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.
In addition, radiated emissions which fall in the restricted bands must also comply with the applicable radiated emission limit tables.
Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	2400/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 (dBμV)	
	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.

6 TEST CONFIGURATION

6.1 Emission Bandwidth

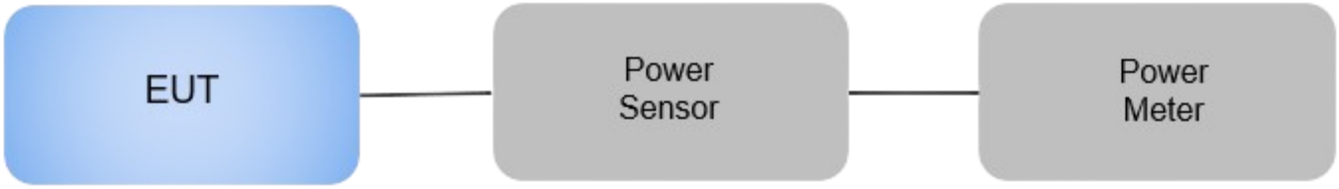
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. 6dB BW measurements
   The testing is performed in accordance with the applicable regulatory measurement procedure.
   Set the spectrum analyzer as
   RBW= 1% to 5% of the OBW but not less than 100 kHz,
   VBW ≥ 3 X RBW,
   Span= 2 to 5 times of the OBW,
   Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
   Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
   Repeat above procedures until all test default channel is completed.
4. 99% BW measurements
   The testing is performed in accordance with the applicable regulatory measurement procedure.
   Set the spectrum analyzer as
   RBW= 1 % to 5% of 99% without going below 10kHz,
   VBW≥3 X RBW,
   Span= 1.5 to 5 times of the OBW,
   Sweep=Auto, Detector = Peak, and Trace mode = Max Hold,
   Use the 99% power bandwidth function of the spectrum analyzer.
   Repeat above procedures until all test default channel is completed.

6.2 Maximum Output Power

6.2.1 Duty Cycle

Set the spectrum analyzer as
Center Frequency = fundamental frequency
Span = Zero,
RBW = 8 MHz,
VBW = 8 MHz,
Detector = Peak,
Allow trace to fully stabilize.
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 to transmit mode.
2. The testing was performed in accordance with the applicable measurement procedure.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.
4. Record the maximum reading as observed from the power meter.
5. Repeat the above procedures until all default test channels have been measured.

Note: The duty cycle factor is applied to obtain the average measurement corrected to its maximum equivalent.

Note: when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

6.3 Maximum Power Spectral Density

The test is conducted in accordance with the applicable regulatory measurement procedure.

Set spectrum analyzer center frequency to DTS channel center frequency.
Set the span > 1.5 times the DTS channel bandwidth.
Set the RBW = 3 kHz and VBW = 10 kHz.
Detector = Peak.
Sweep time = Auto Couple.
Trace mode = Max Hold.
Allow trace to fully stabilize.
Use the peak marker function to determine the maximum amplitude level.

Note: When the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

6.4 Out of Band Emission

6.4.1 Reference Level of Emission Limit

The testing is performed in accordance with the applicable measurement procedure.
Set the analyzer center frequency to the DTS channel center frequency.
Set the span to 1.5 times the DTS channel bandwidth.
Set RBW = 100 kHz and VBW = 300 kHz.
Detector = Peak.
Sweep time = Auto Couple.
Trace mode = Max Hold.
Allow the trace to fully stabilize.
Use the peak marker function to determine the maximum amplitude level.

6.4.2 Conducted Band Edge

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
4. Set the start frequency and stop frequency of the spectrum analyzer to encompass the spectrum to be examined.
   Configure the spectrum analyzer as follows:
   RBW = 100 kHz
   VBW = 300 kHz
   Detector = Peak
   Sweep = Auto
   Mark the highest reading of the emission as the reference level.
   Set DL as the limit = reading on marker of reference level measurement
   Mark the highest emissions observed outside of the 2400 MHz to 2483.5 MHz band.
5. Repeat the above procedure for each default test channel (low, middle, and high).

6.4.3 Conducted Spurious Emission

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
   Configure the spectrum analyzer as follows:
   RBW = 100 kHz
   VBW = 300 kHz
   Detector = Peak
   Sweep = Auto.
   Allow the trace to fully stabilize.
   Use the peak marker function to determine the maximum power level in any 100

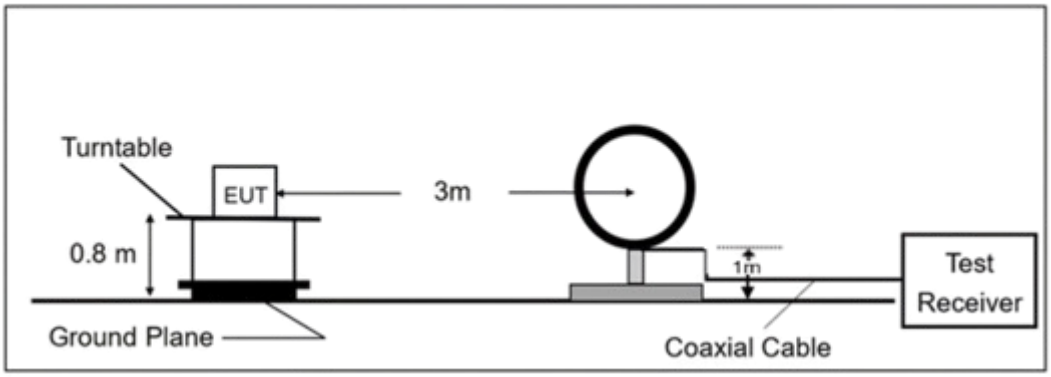
kHz band segment within the fundamental emission bandwidth (EBW).

3. Repeat the above procedures until all default test channels (low, middle, and high) have been measured.

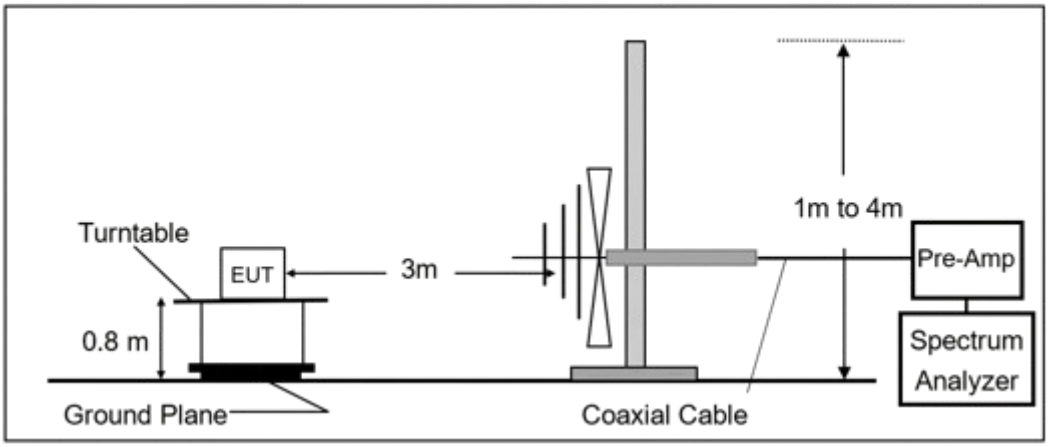
6.5 Unwanted Emissions

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.

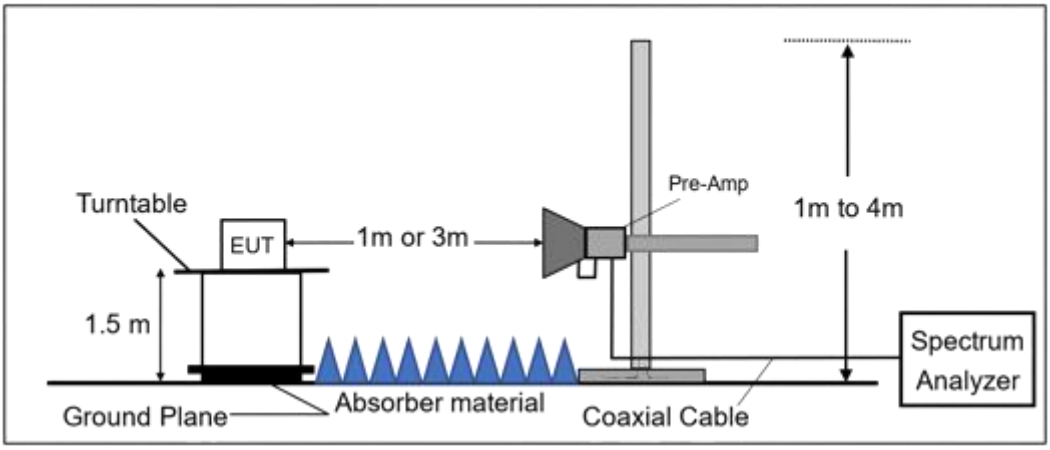
Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. The spectrum analyzer was set with RBW = 100 kHz and VBW = 300 kHz, using a Peak detector for frequencies between 30 MHz and 1 GHz.
6. A receiver mode with RBW = 120 kHz was used for Quasi-Peak (QP) measurements between 30 MHz and 1 GHz.
7. For frequencies above 1 GHz, the spectrum analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and Detector = Peak for maximum emission measurements.
8. 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 ≥ 98%. If a specific emission is demonstrated to be continuous (D ≥ 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.
9. Set the spectrum analyzer as RBW=1 MHz, VBW ≥ 1/T, Detector= Peak when D < 98% for Average Emission Measurements at frequency above 1 GHz.
10. The average value of pulsed emissions is determined using the duty cycle correction method, applying a correction factor of $20 \times \log_{10}$ (Ton / 100 ms).
11. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
12. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
13. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.
14. Repeat the above procedures until all default test channels (low, middle, and high)

are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

6.5.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

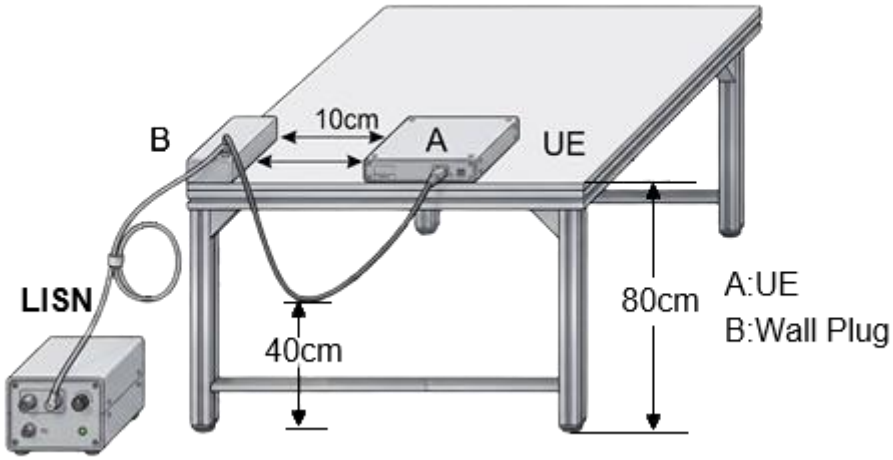
FS = RA + AF + CL – AG

Where:

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

The emission limit is expressed in dBμV/m, which corresponds to the logarithmic conversion of 20 × $\log_{10}$ (μV/m).

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 μH / 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.

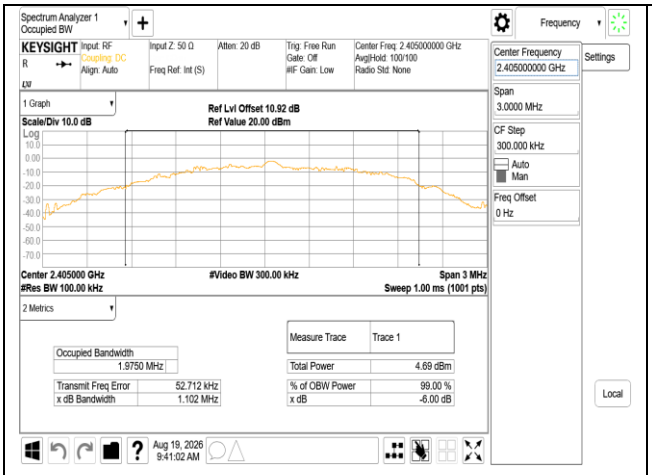
7 TEST RESULTS

7.1 Emission Bandwidth

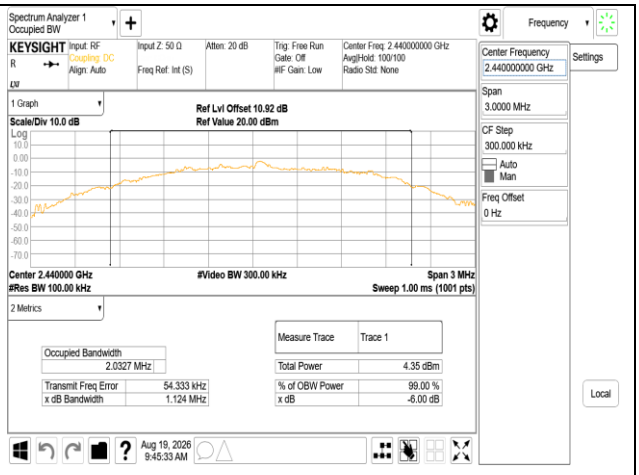
7.1.1 6dB BW measurements

802.15.4 mode

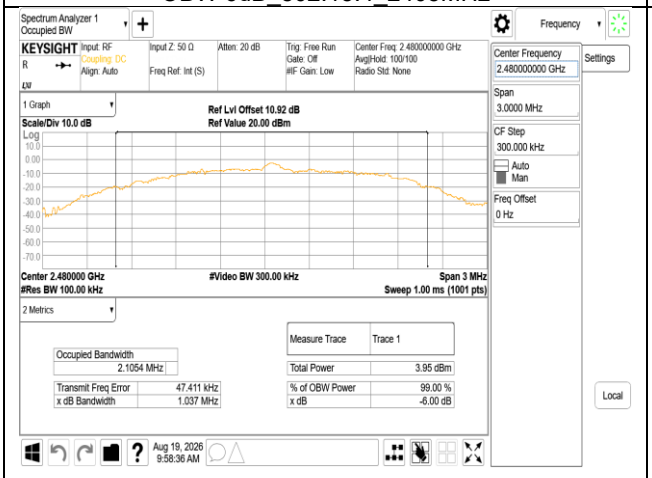
Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2405	1.102	≧ 0.5	PASS
2440	1.124	≧ 0.5	PASS
2480	1.037	≧ 0.5	PASS



OBW 6dB_802.15.4_2405MHz



OBW 6dB_802.15.4_2440MHz

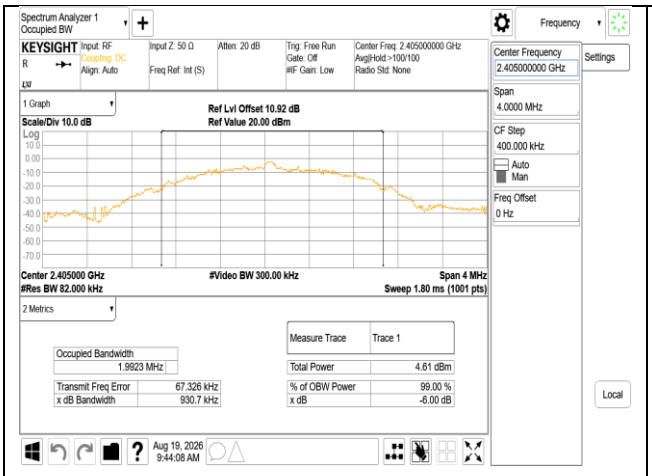


OBW 6dB_802.15.4_2480MHz

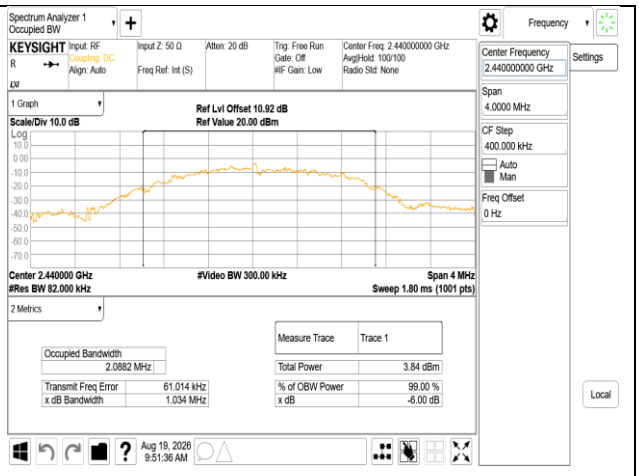
7.1.2 99% Bandwidth

802.15.4 mode

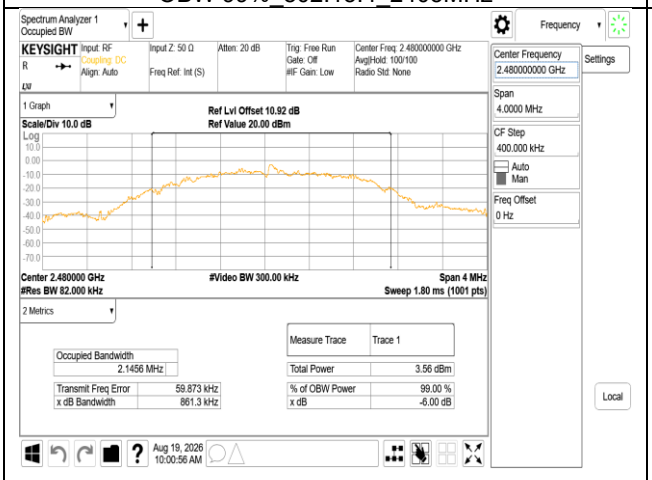
Frequency (MHz)	99%Bandwidth (MHz)
2405	1.9923
2440	2.0882
2480	2.1456



OBW 99%_802.15.4_2405MHz



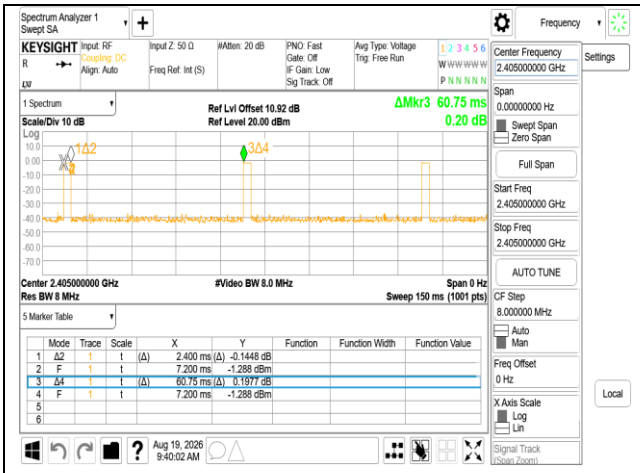
OBW 99%_802.15.4_2440MHz



OBW 99%_802.15.4_2480MHz

7.2 Duty Factor

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.15.4	3.95	14.03	0.42	1.00



802.15.4_2405MHz

7.3 Maximum Output Power

7.3.1 Peak & Avg

802.15.4 mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
11	2405	LPA	-1.25	30
18	2440	LPA	-1.54	30
26	2480	LPA	-1.83	30
CH	**Frequency (MHz)**	**Power Setting**	**Avg. Output Power (dBm)**	**Required Limit (dBm)**
11	2405	LPA	-1.52	30
18	2440	LPA	-1.82	30
26	2480	LPA	-2.15	30

Note:
1.Measured by power meter, path loss 10.92 dB + Duty cycle factor has been offseted to the power meter for Avg. power and path loss has been offseted for Peak power measurement.

7.3.2 EIRP

EIRP 802.15.4 mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
11	2405	LPA	-1.52	2.00	0.48	4W=	36	dBm
18	2440	LPA	-1.82	2.00	0.18	4W=	36	dBm
26	2480	LPA	-2.15	2.00	-0.15	4W=	36	dBm

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

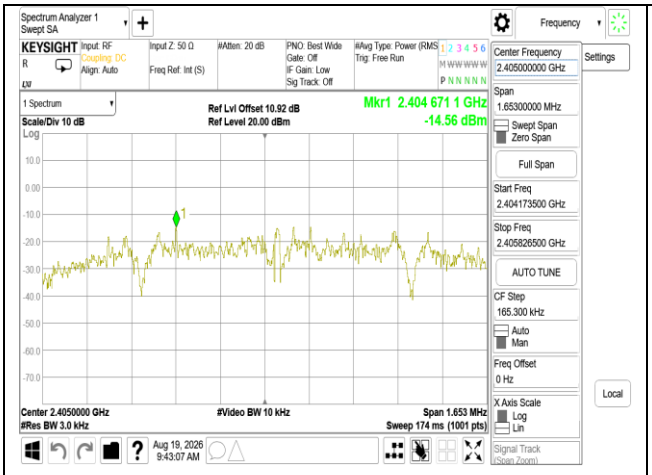
7.4 Maximum Power Spectral Density

802.15.4 mode

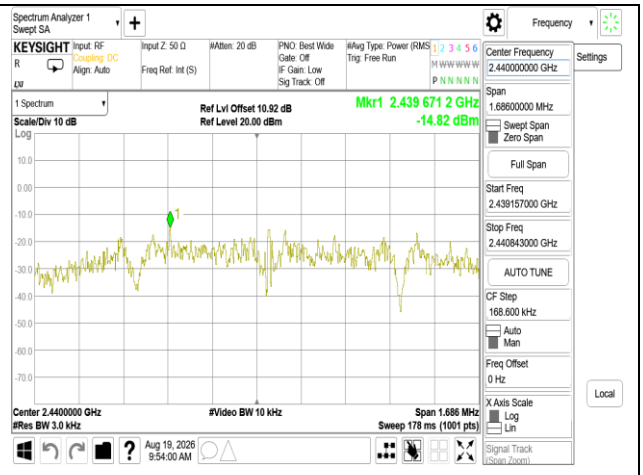
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2405	-14.56	8	PASS
2440	-14.82	8	PASS
2480	-15.55	8	PASS

Note:

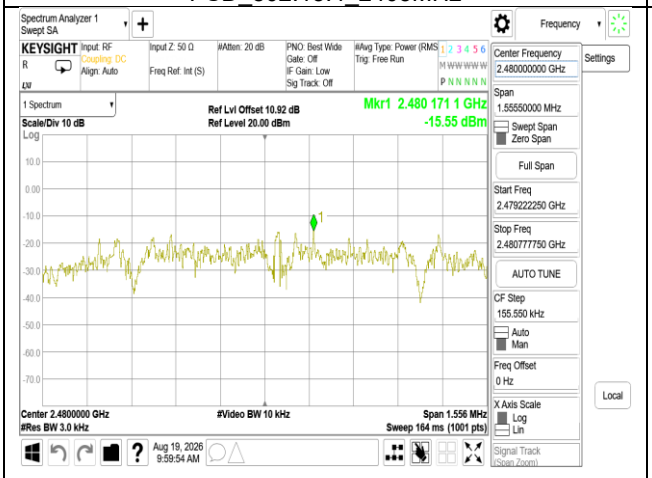
1.path loss as 10.92 dB that offsets in the spectrum



PSD_802.15.4_2405MHz



PSD_802.15.4_2440MHz



PSD_802.15.4_2480MHz

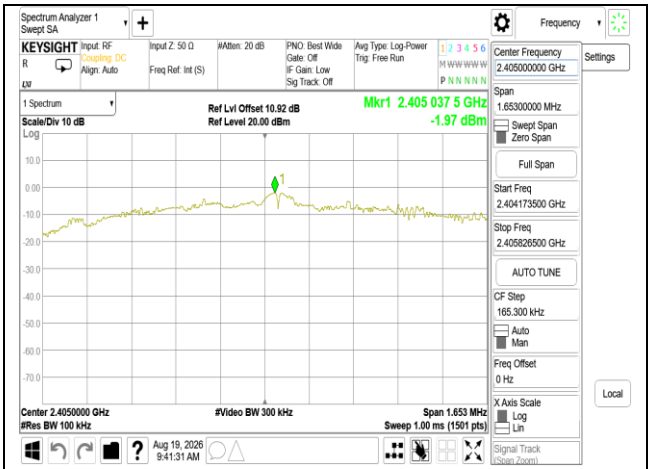
7.5 Out of Band Emission

802.15.4_Reference Level of Limit

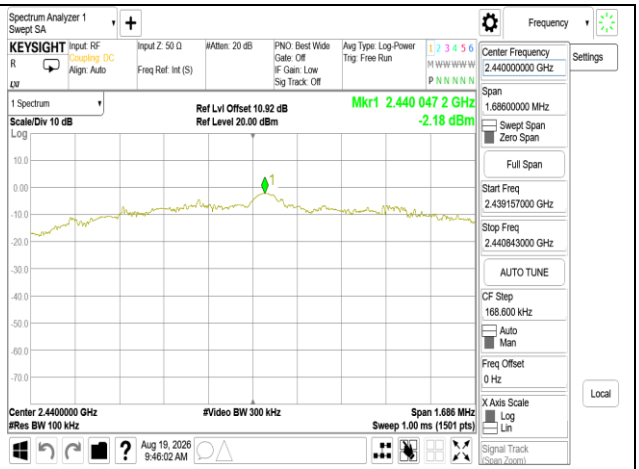
Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2405	-1.97	-21.97
2440	-2.18	-22.18
2480	-2.84	-22.84

***Note:**

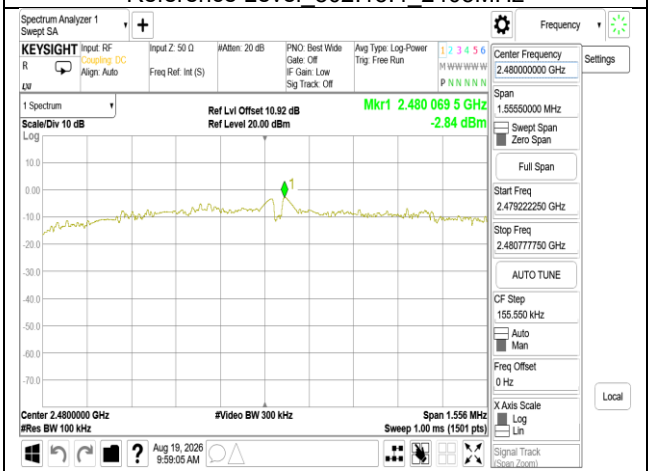
1.path loss as 10.92 dB that offsets in the spectrum



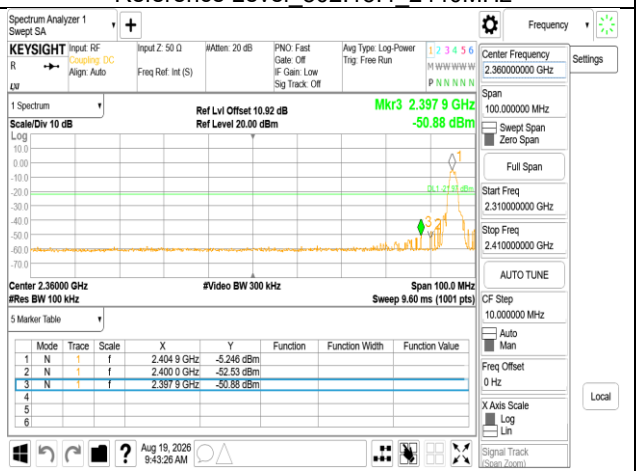
Reference Level_802.15.4_2405MHz



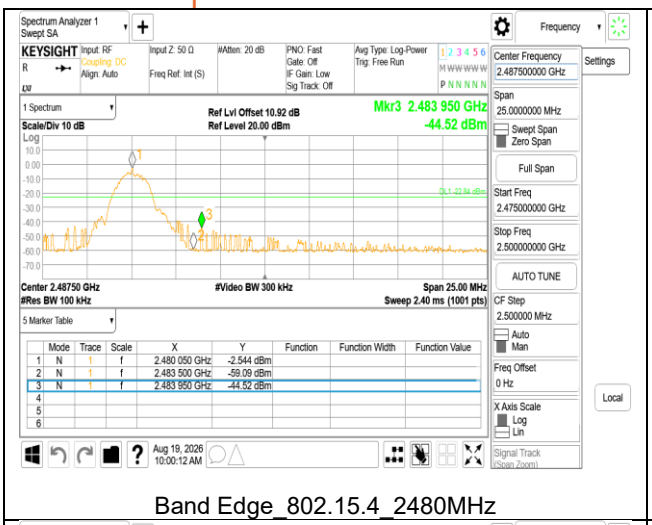
Reference Level_802.15.4_2440MHz



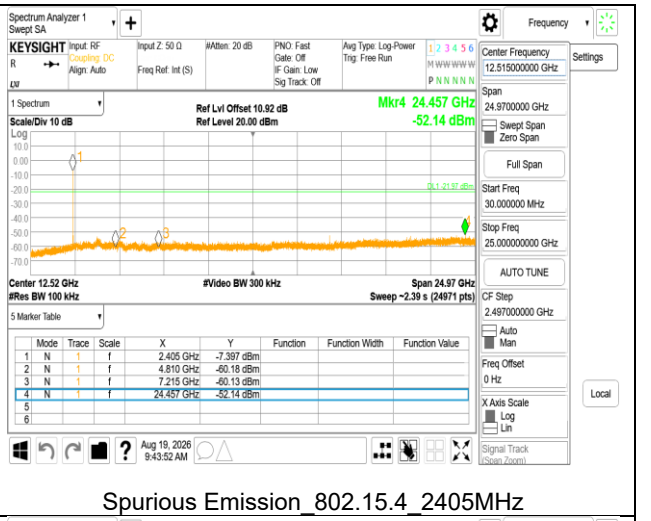
Reference Level_802.15.4_2480MHz



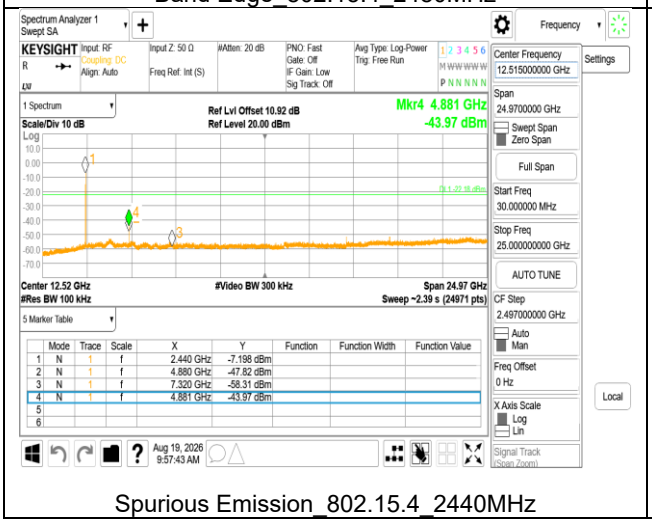
Band Edge_802.15.4_2405MHz



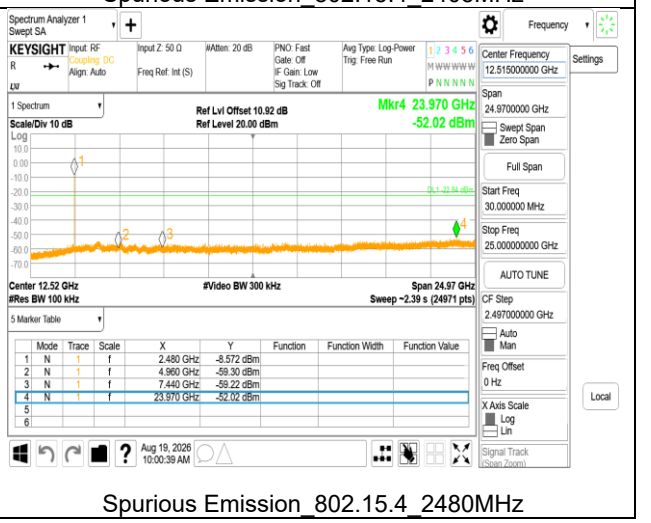
Band Edge_802.15.4_2480MHz



Spurious Emission_802.15.4_2405MHz



Spurious Emission_802.15.4_2440MHz

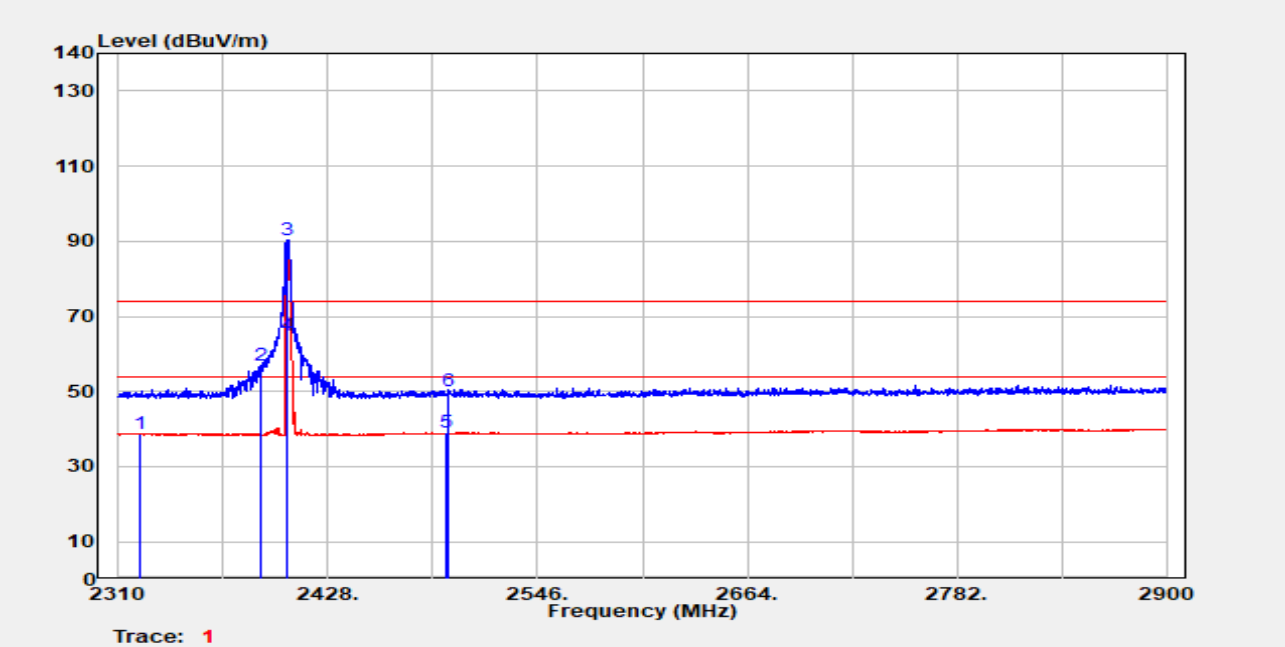


Spurious Emission_802.15.4_2480MHz

7.6 Unwanted Emissions

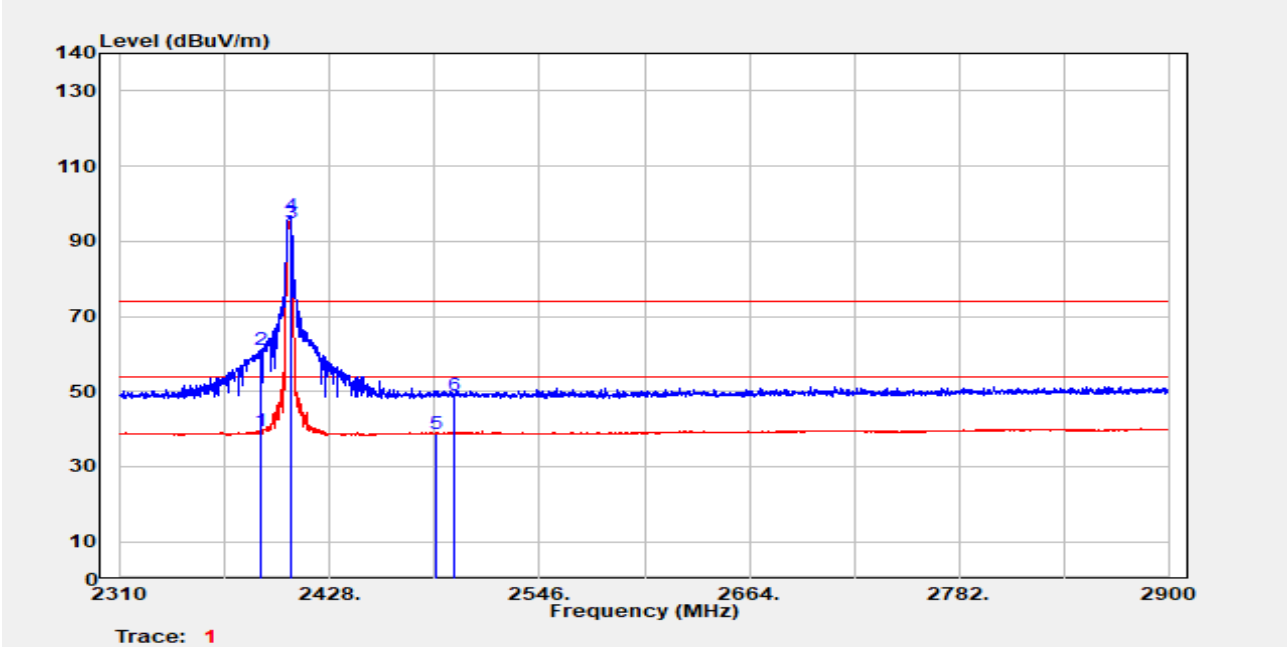
7.6.1 Radiated Band Edge Measurement Result

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2405 MHz	Temp./Humi.	:21.8℃/65%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



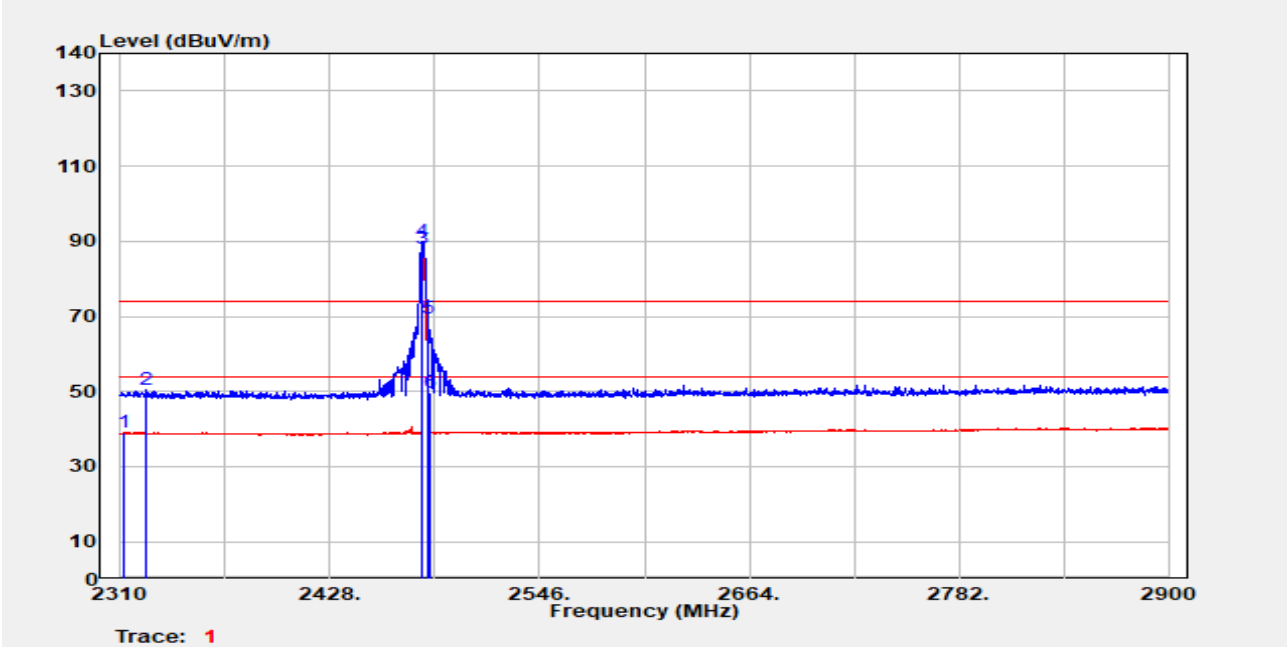
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2321.61	Average	42.13	-3.39	38.74	54.00	-15.26
2389.87	Peak	60.49	-3.73	56.76	74.00	-17.24
2404.63	Peak	94.22	-3.79	90.43	-	-
2404.83	Average	68.63	-3.79	64.84	-	-
2494.73	Average	42.45	-3.50	38.95	54.00	-15.05
2496.11	Peak	53.47	-3.49	49.98	74.00	-24.02

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2405 MHz	Temp./Humi.	:21.8℃/65%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



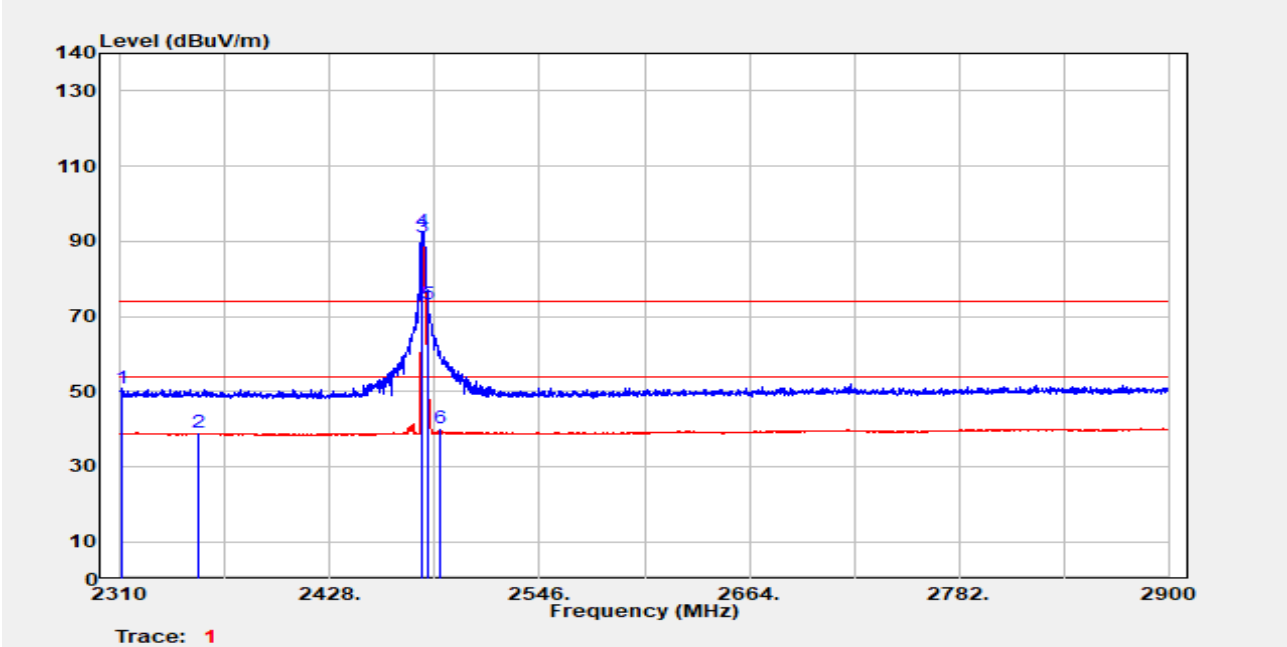
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2388.89	Average	43.06	-3.72	39.34	54.00	-14.66
2389.09	Peak	64.67	-3.72	60.95	74.00	-13.05
2405.61	Average	98.80	-3.78	95.02	-	-
2405.81	Peak	100.41	-3.78	96.63	-	-
2487.26	Average	42.28	-3.52	38.76	54.00	-15.24
2498.27	Peak	52.31	-3.48	48.83	74.00	-25.17

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2480 MHz	Temp./Humi.	:21.8℃/65%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2311.97	Average	42.47	-3.43	39.04	54.00	-14.96
2323.97	Peak	53.73	-3.41	50.32	74.00	-23.68
2479.78	Average	91.56	-3.55	88.01	-	-
2479.78	Peak	93.40	-3.55	89.85	-	-
2483.32	Peak	73.05	-3.55	69.50	74.00	-4.50
2484.70	Average	53.13	-3.54	49.59	54.00	-4.41

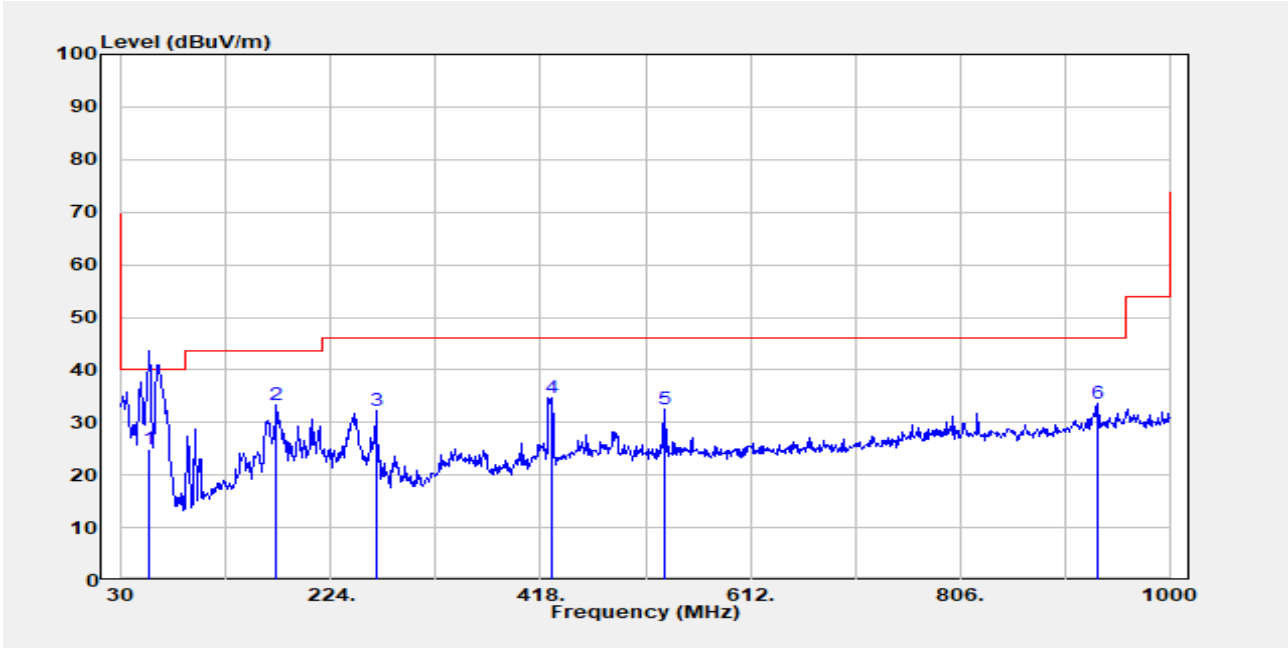
Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2480 MHz	Temp./Humi.	:21.8℃/65%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2310.39	Peak	54.14	-3.44	50.70	74.00	-23.30
2353.28	Average	42.36	-3.44	38.92	54.00	-15.08
2479.78	Average	94.46	-3.55	90.91	-	-
2479.78	Peak	96.10	-3.55	92.55	-	-
2483.32	Peak	76.67	-3.55	73.12	74.00	-0.88
2489.42	Average	43.60	-3.52	40.08	54.00	-13.92

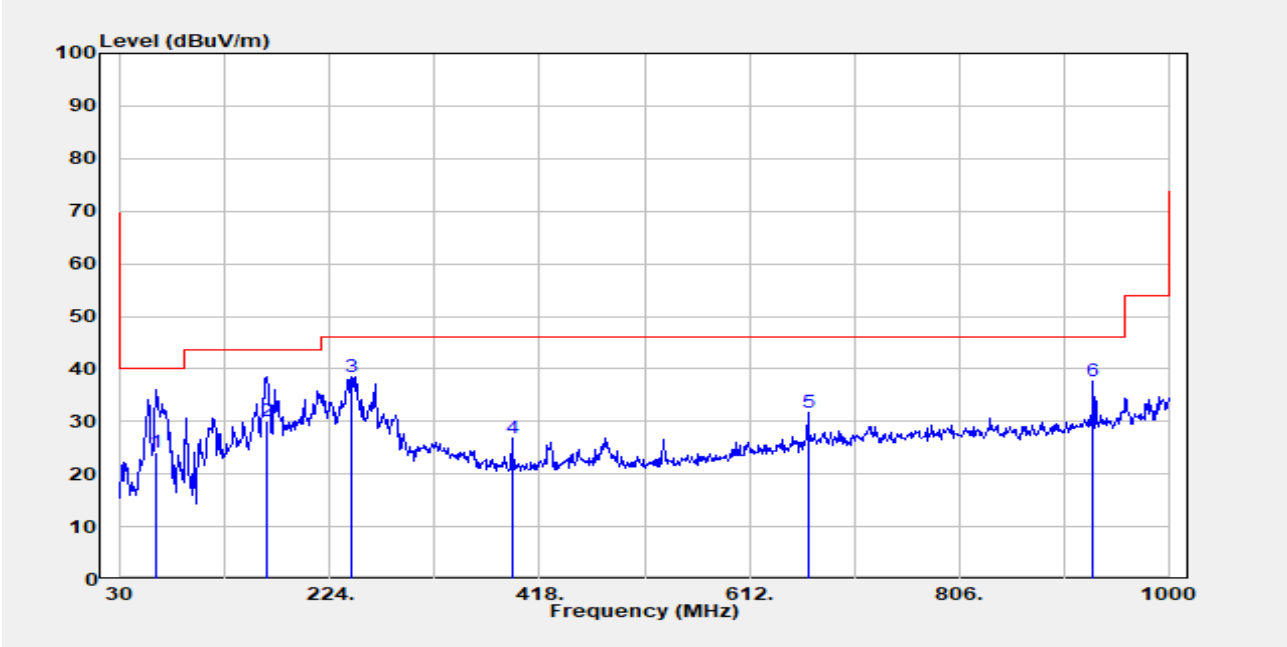
7.6.2 Spurious Emission

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2440 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



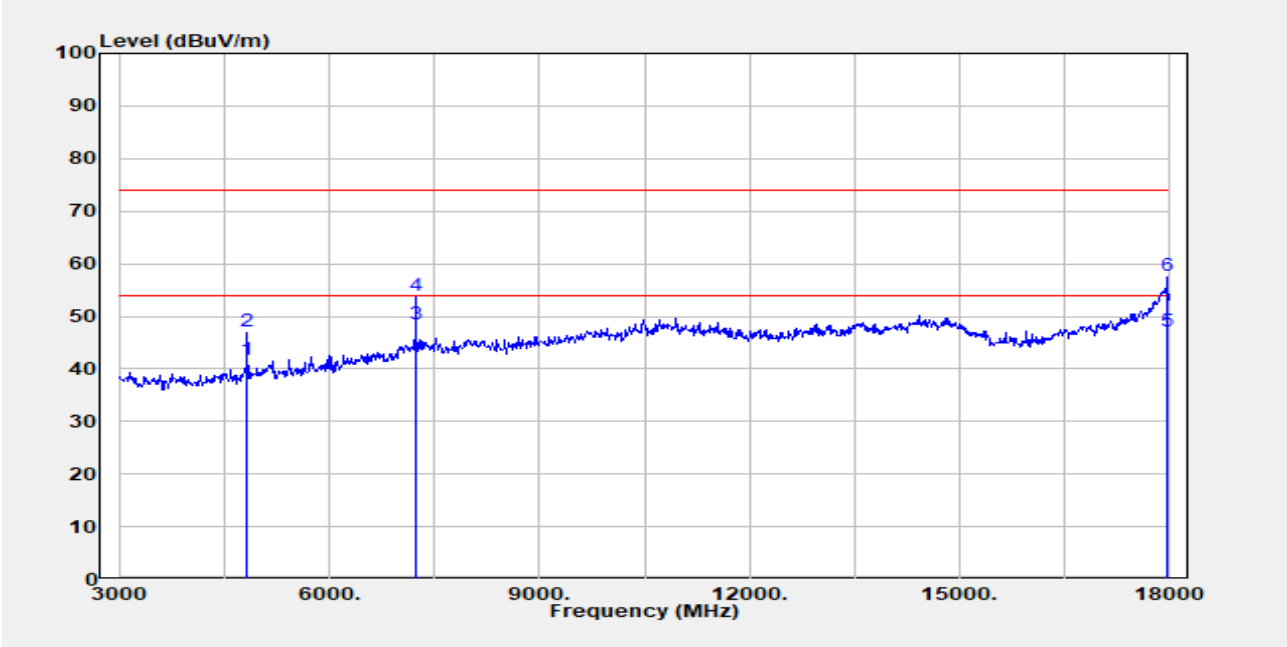
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
56.19	QP	42.30	-17.34	24.96	40.00	-15.04
173.56	Peak	50.37	-17.11	33.26	43.50	-10.24
265.71	Peak	49.20	-16.86	32.34	46.00	-13.66
427.70	Peak	47.15	-12.44	34.71	46.00	-11.29
533.43	Peak	43.29	-10.68	32.61	46.00	-13.39
933.07	Peak	37.49	-4.02	33.47	46.00	-12.53

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2440 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



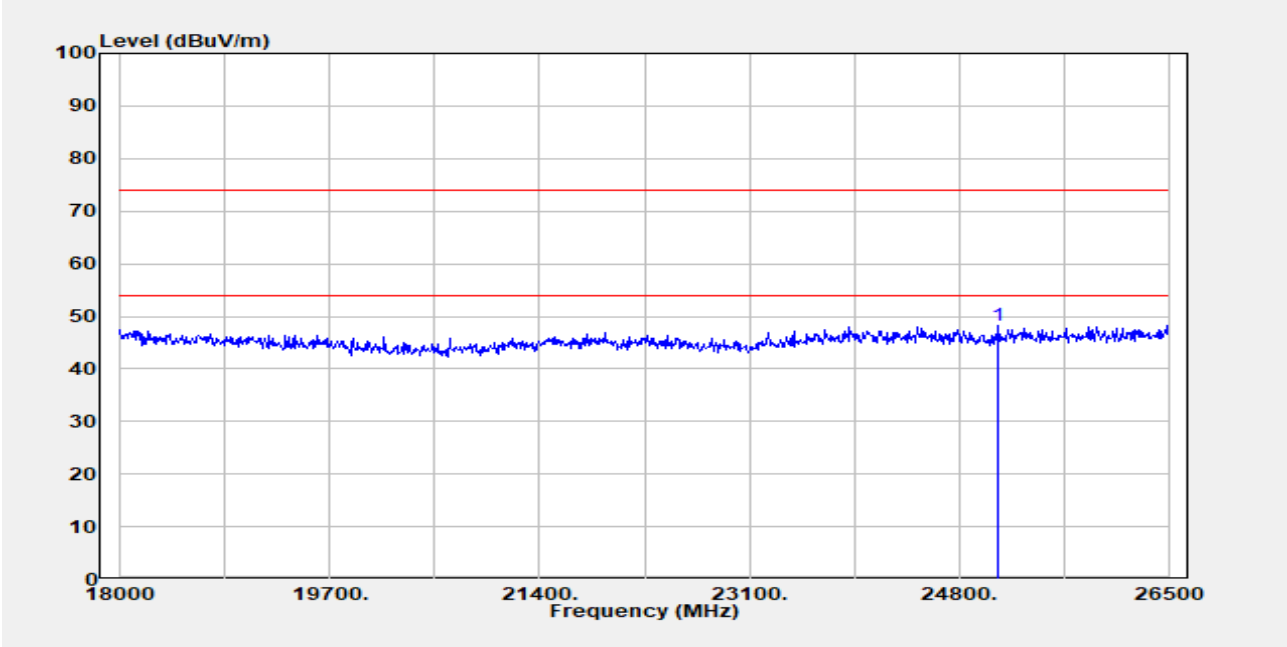
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
62.01	QP	42.19	-18.16	24.03	40.00	-15.97
164.83	QP	46.60	-16.59	30.01	43.50	-13.49
244.37	Peak	56.13	-17.52	38.61	46.00	-7.39
392.78	Peak	40.44	-13.57	26.87	46.00	-19.13
666.32	Peak	39.78	-8.16	31.62	46.00	-14.38
930.16	Peak	41.60	-4.04	37.56	46.00	-8.44

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2405 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



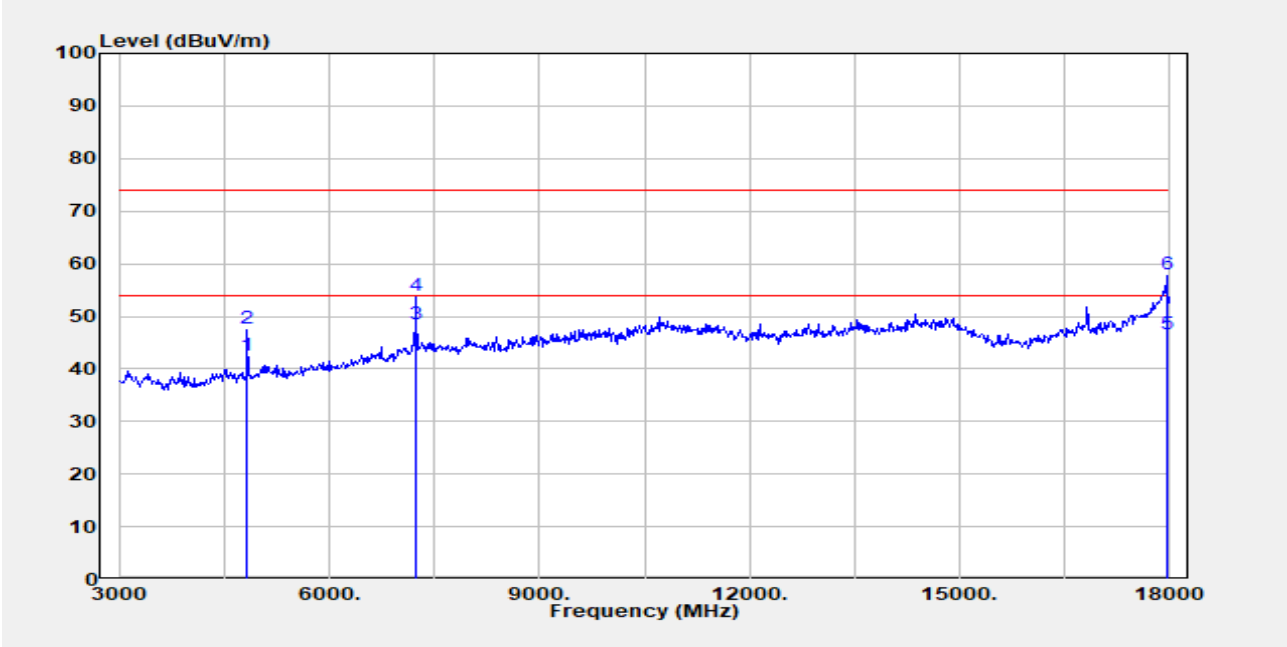
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4810.00	Average	40.64	1.06	41.70	54.00	-12.30
4810.00	Peak	46.20	1.06	47.26	74.00	-26.74
7215.00	Average	41.09	7.52	48.61	54.00	-5.39
7215.00	Peak	46.31	7.52	53.83	74.00	-20.17
17985.00	Average	29.55	17.71	47.26	54.00	-6.74
17985.00	Peak	40.04	17.71	57.75	74.00	-16.25

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2405 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



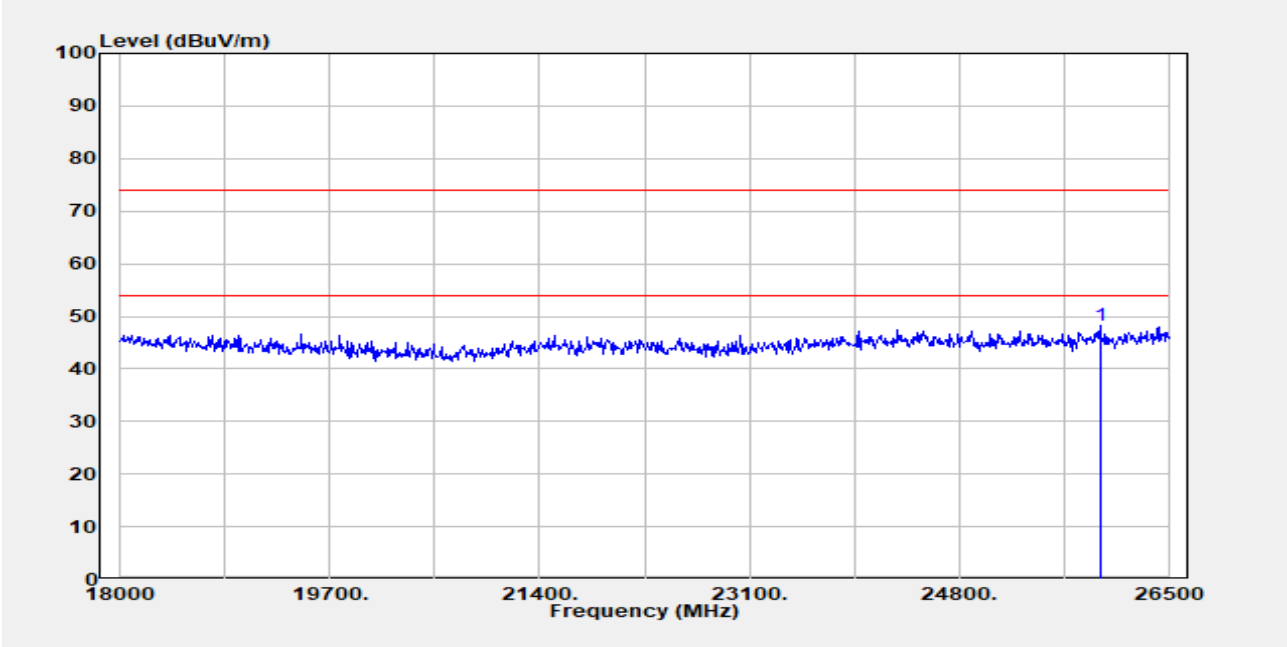
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
25123.00	Peak	40.46	7.69	48.15	74.00	-25.85

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2405 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



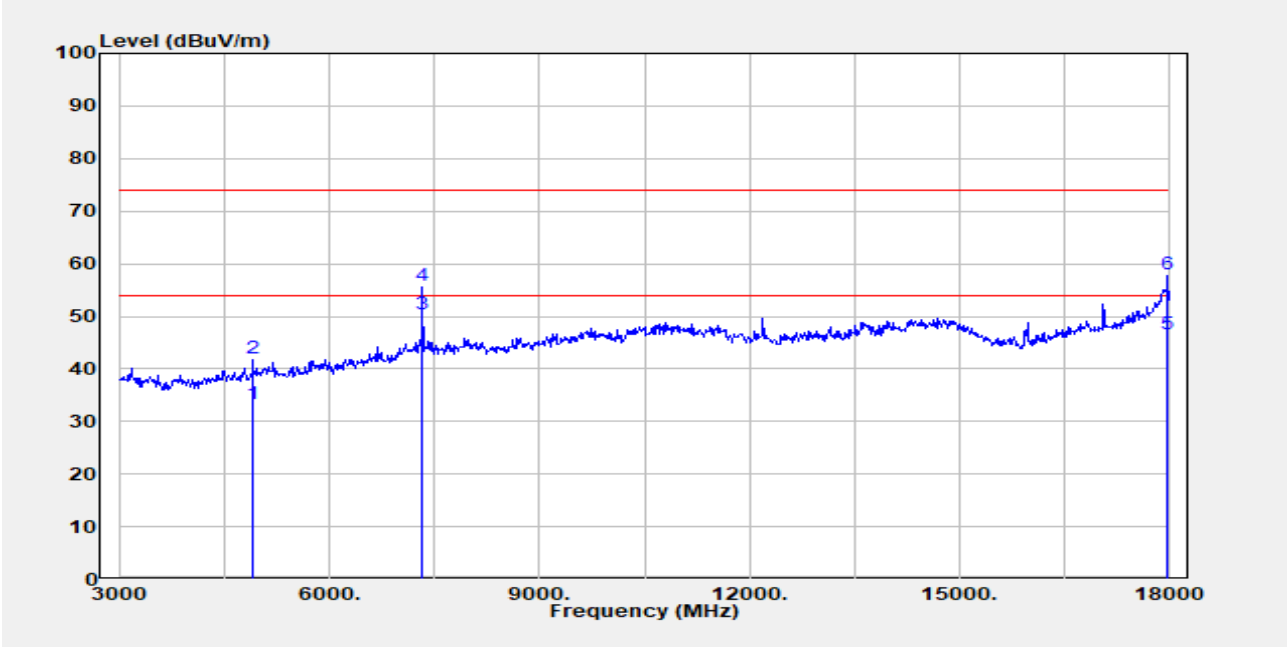
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4810.00	Average	41.41	1.06	42.47	54.00	-11.53
4810.00	Peak	46.58	1.06	47.64	74.00	-26.36
7215.00	Average	40.99	7.52	48.51	54.00	-5.49
7215.00	Peak	46.33	7.52	53.85	74.00	-20.15
17970.00	Average	29.37	17.35	46.72	54.00	-7.28
17970.00	Peak	40.54	17.35	57.89	74.00	-16.11

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2405 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



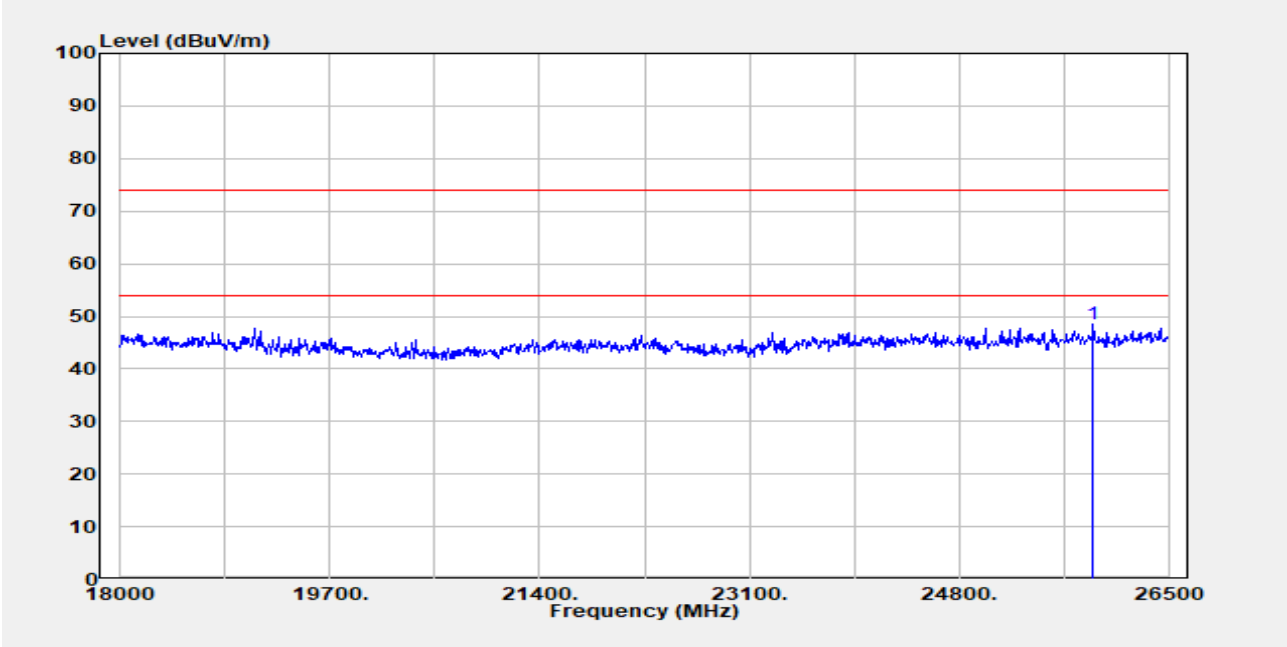
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
25947.50	Peak	40.40	7.83	48.23	74.00	-25.77

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2440 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



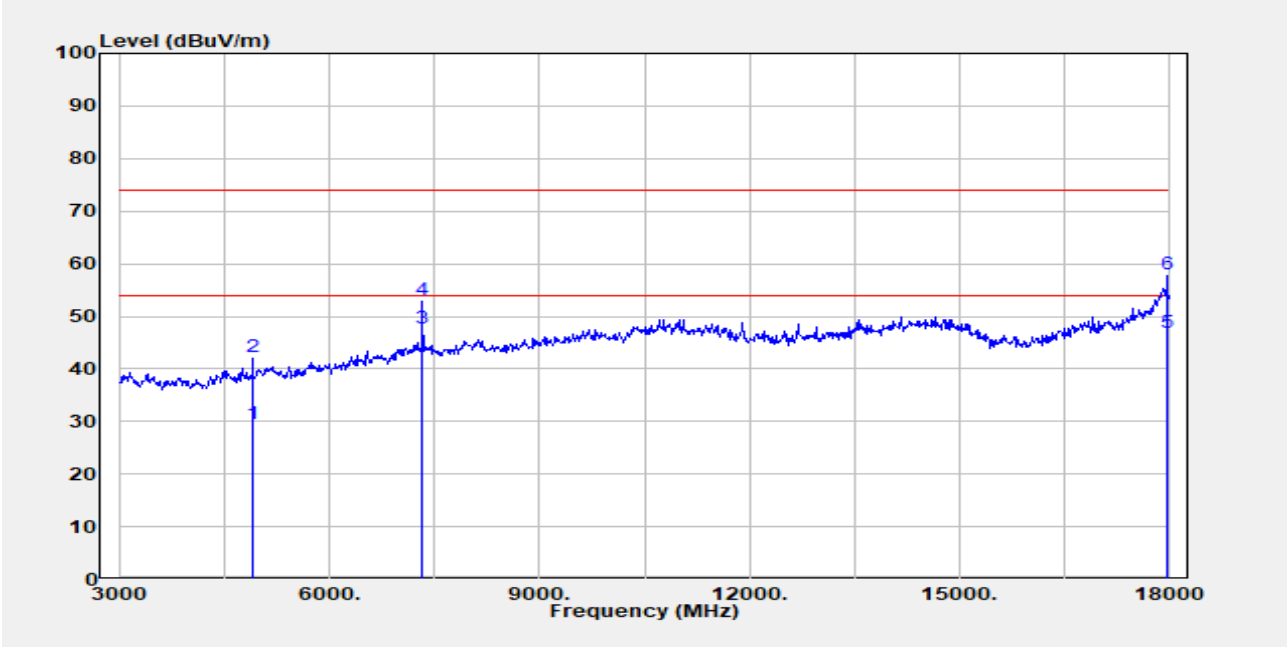
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4880.00	Average	32.23	1.13	33.36	54.00	-20.64
4880.00	Peak	41.00	1.13	42.13	74.00	-31.87
7320.00	Average	42.49	7.97	50.46	54.00	-3.54
7320.00	Peak	47.93	7.97	55.90	74.00	-18.10
17985.00	Average	28.85	17.71	46.56	54.00	-7.44
17985.00	Peak	40.29	17.71	58.00	74.00	-16.00

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2440 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



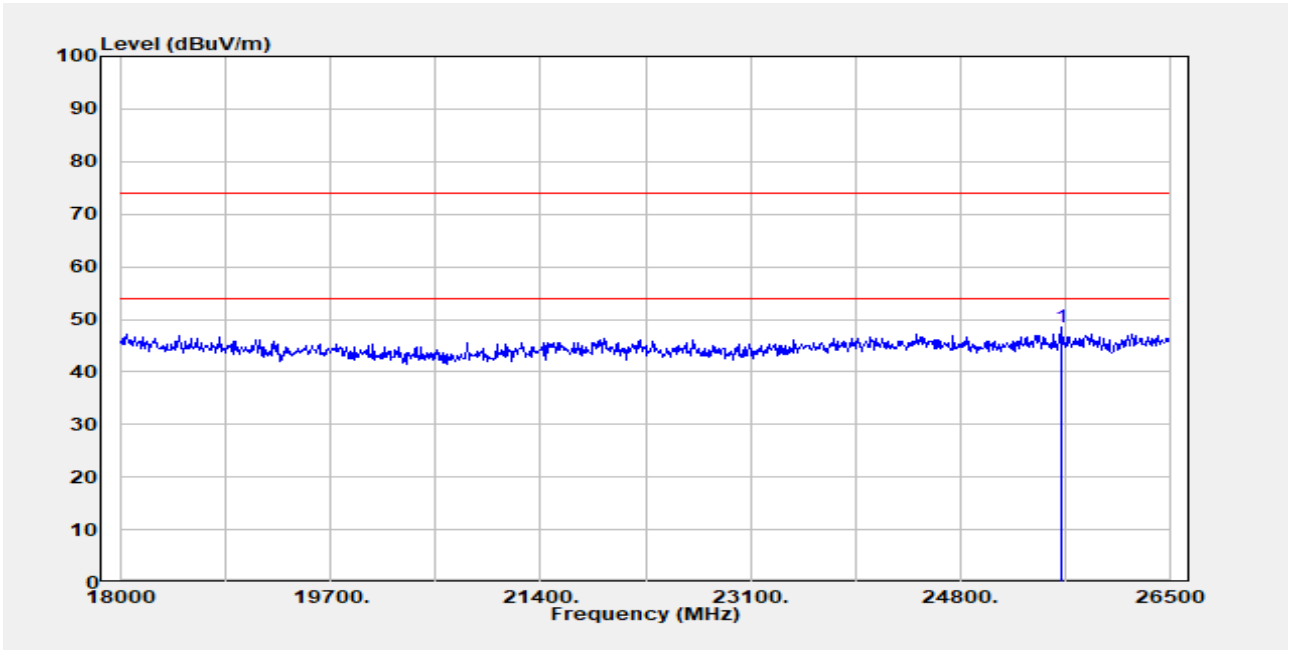
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
25888.00	Peak	40.75	7.88	48.63	74.00	-25.37

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2440 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



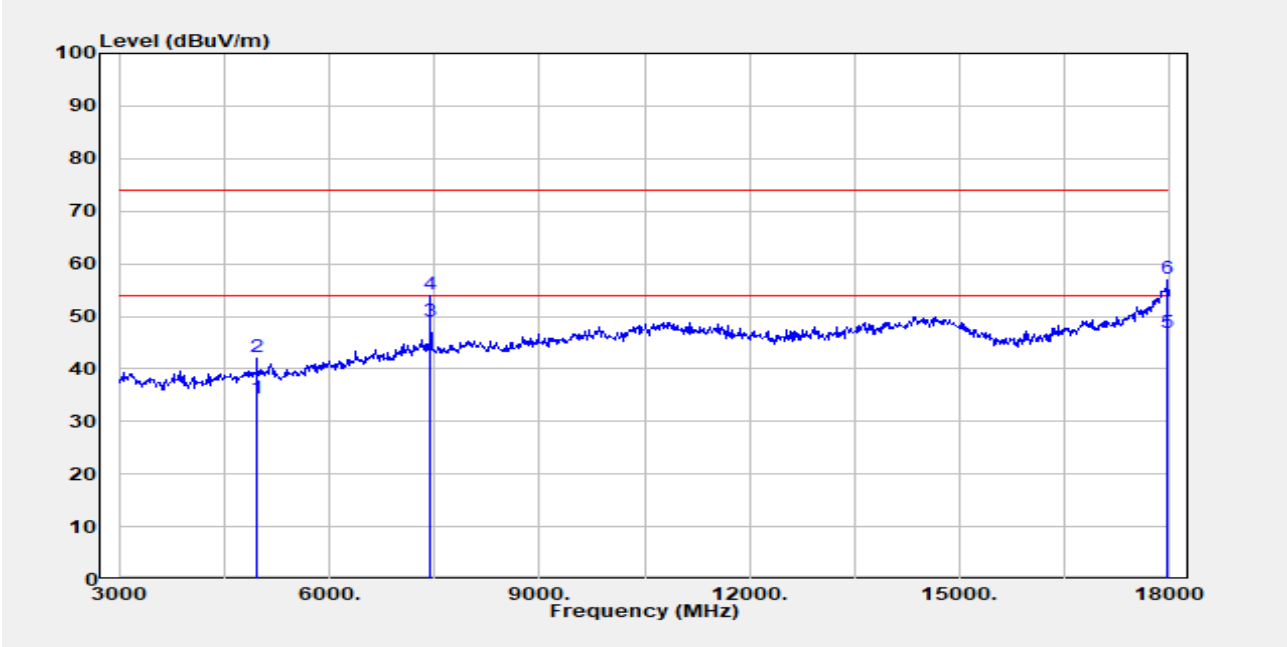
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4880.00	Average	28.49	1.13	29.62	54.00	-24.38
4880.00	Peak	41.13	1.13	42.26	74.00	-31.74
7320.00	Average	39.65	7.97	47.62	54.00	-6.38
7320.00	Peak	45.19	7.97	53.16	74.00	-20.84
17985.00	Average	29.27	17.71	46.98	54.00	-7.02
17985.00	Peak	40.24	17.71	57.95	74.00	-16.05

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2440 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



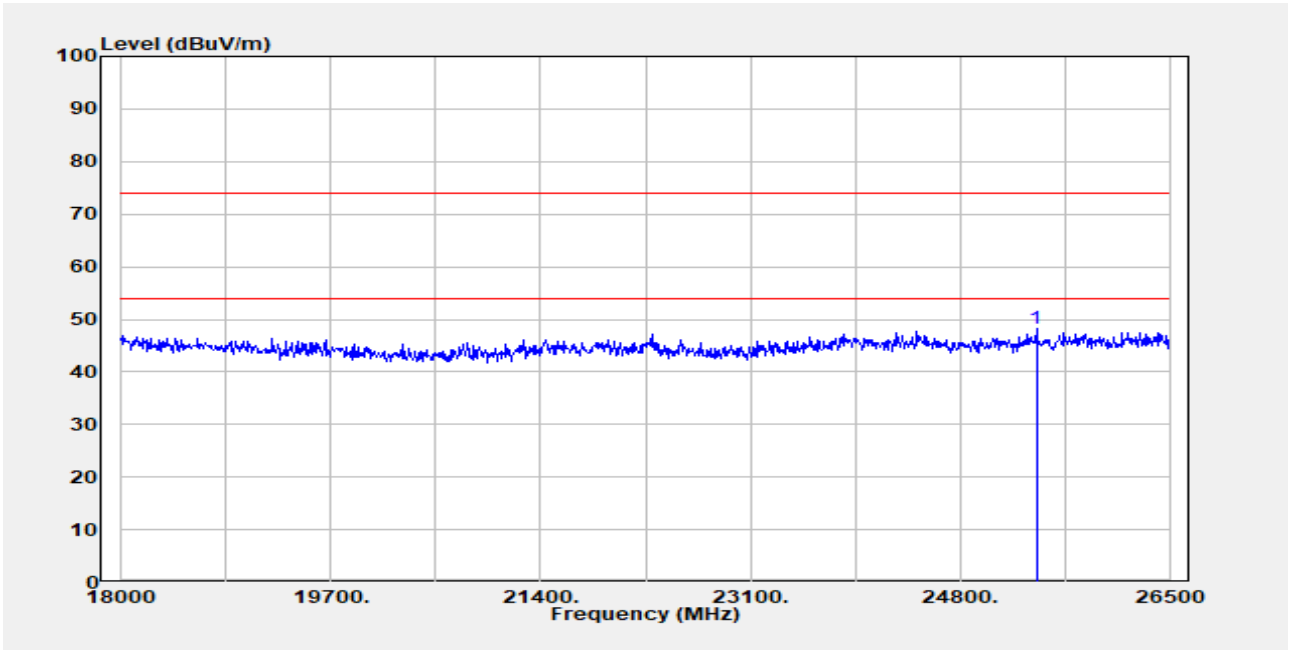
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
25624.50	Peak	40.87	7.62	48.49	74.00	-25.51

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2480 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



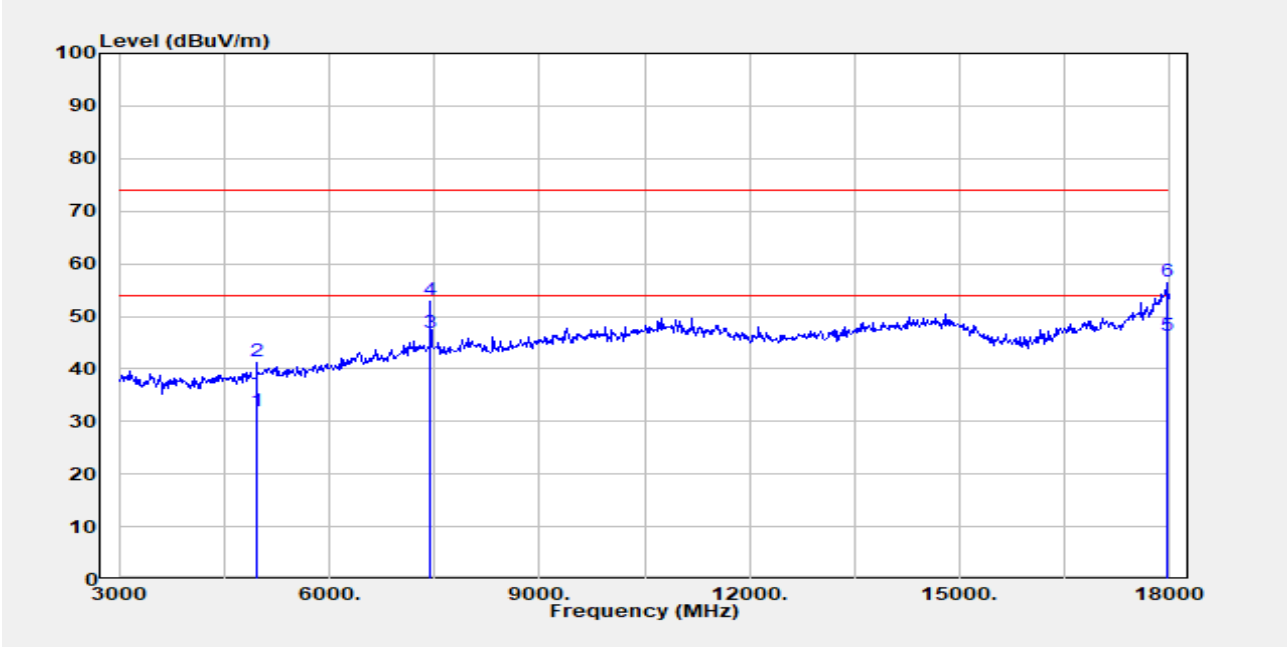
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4960.00	Average	33.00	1.45	34.45	54.00	-19.55
4960.00	Peak	40.87	1.45	42.32	74.00	-31.68
7440.00	Average	41.36	7.79	49.15	54.00	-4.85
7440.00	Peak	46.29	7.79	54.08	74.00	-19.92
17985.00	Average	29.16	17.71	46.87	54.00	-7.13
17985.00	Peak	39.36	17.71	57.07	74.00	-16.93

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2480 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



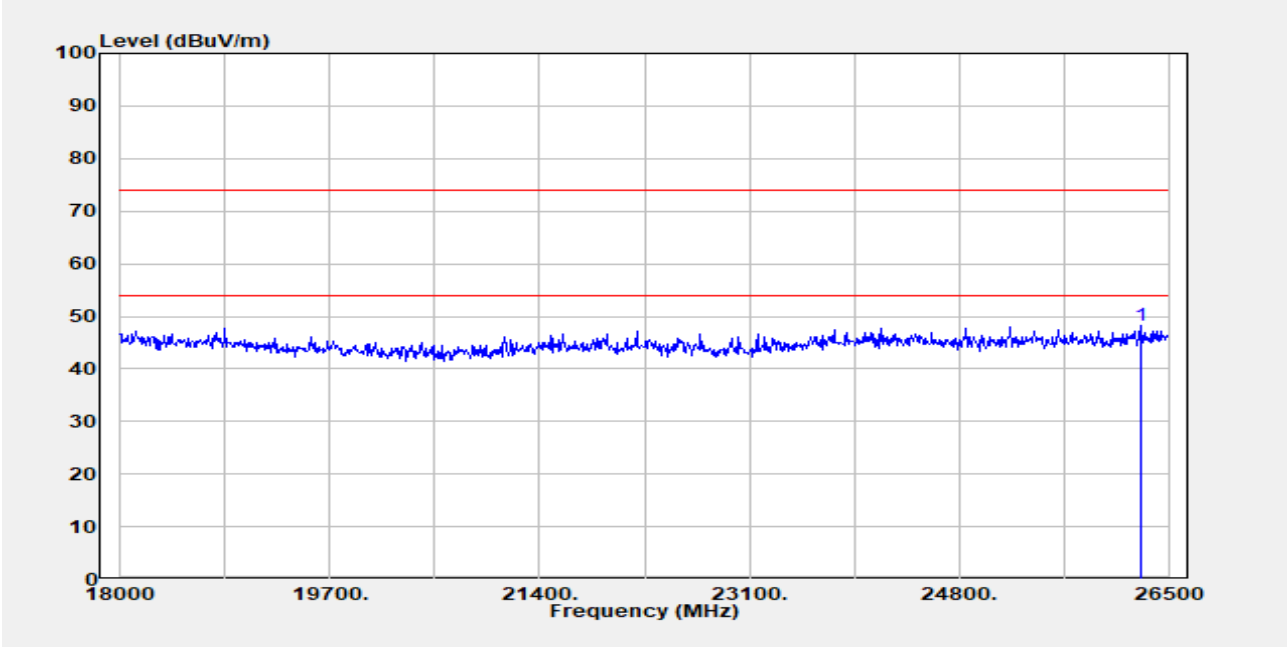
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
25420.50	Peak	40.64	7.65	48.29	74.00	-25.71

Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2480 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4960.00	Average	30.59	1.45	32.04	54.00	-21.96
4960.00	Peak	40.10	1.45	41.55	74.00	-32.45
7440.00	Average	39.18	7.79	46.97	54.00	-7.03
7440.00	Peak	45.32	7.79	53.11	74.00	-20.89
17970.00	Average	29.09	17.35	46.44	54.00	-7.56
17970.00	Peak	39.35	17.35	56.70	74.00	-17.30

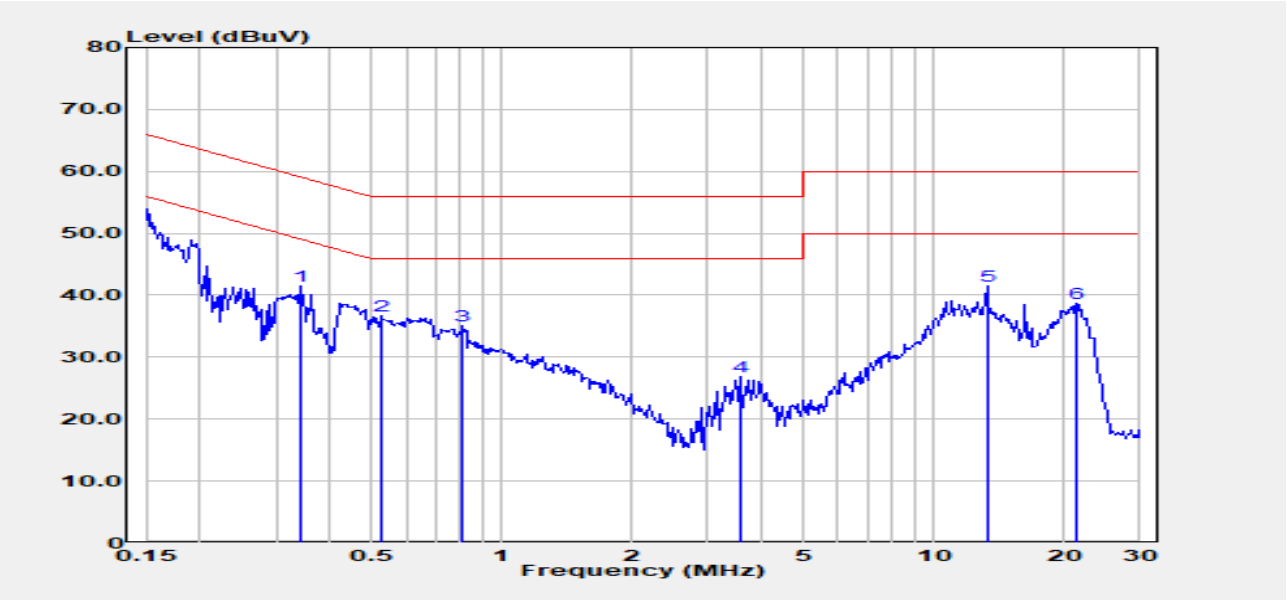
Report Number	:TERF2608002912E2	Test Site	:SAC C
Operation Mode	:802.15.4	Test Date	:2026-08-18
Test Frequency	:2480 MHz	Temp./Humi.	:23.0℃/64%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
26270.50	Peak	39.96	8.17	48.13	74.00	-25.87

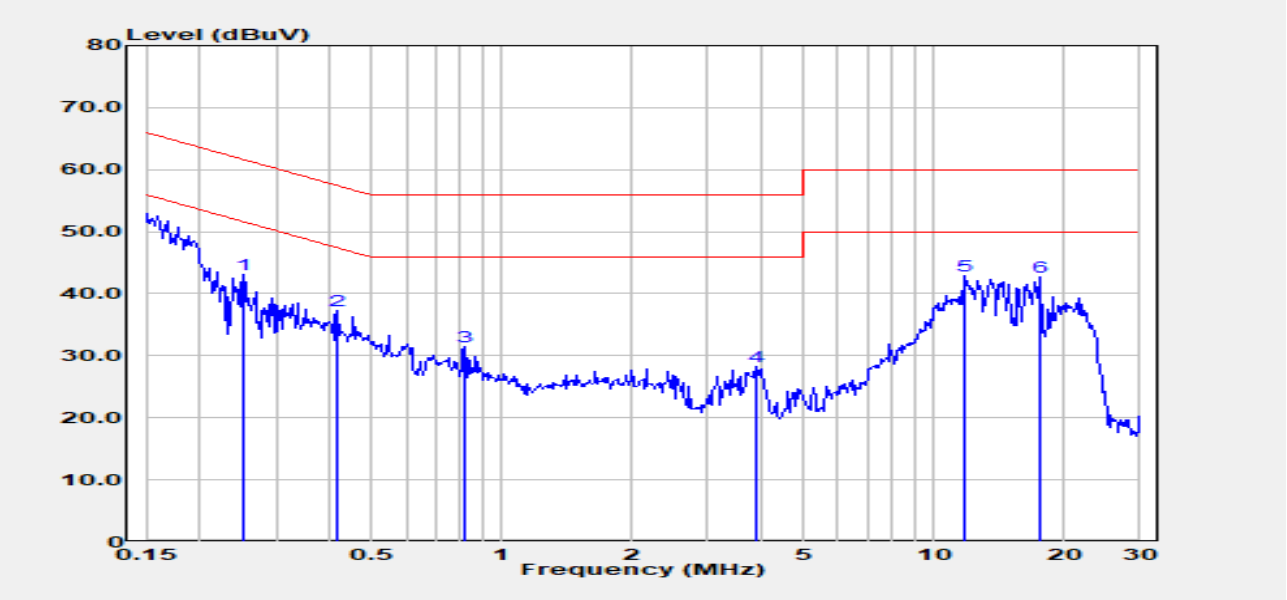
7.7 AC Power Line Conducted Emission

Report Number	:TERF2608002912E2	Test Site	:Conduction C
Test Mode	:802.15.4	Test Date	:2026-08-19
Power	:120V/60Hz	Temp./Humi.	:24.3℃/51%
Probe	:L1	Engineer	:Alex Li



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.342	Peak	30.79	10.63	41.41	59.16	-17.75
0.523	Peak	26.03	10.62	36.65	56.00	-19.35
0.813	Peak	24.35	10.67	35.02	56.00	-20.98
3.561	Peak	15.93	10.88	26.81	56.00	-29.19
13.278	Peak	30.55	11.04	41.59	60.00	-18.41
21.361	Peak	27.50	11.19	38.70	60.00	-21.30

Report Number	:TERF2608002912E2	Test Site	:Conduction C
Test Mode	:802.15.4	Test Date	:2026-08-19
Power	:120V/60Hz	Temp./Humi.	:24.3℃/51%
Probe	:N	Engineer	:Alex Li



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.252	Peak	32.56	10.64	43.20	61.70	-18.50
0.416	Peak	26.66	10.61	37.27	57.54	-20.27
0.820	Peak	20.82	10.65	31.48	56.00	-24.52
3.876	Peak	17.45	10.87	28.32	56.00	-27.68
11.789	Peak	31.82	11.00	42.82	60.00	-17.18
17.721	Peak	31.50	11.12	42.62	60.00	-17.38

~ End of Report ~