

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description Doorbell
Applicant: Immedia Semiconductor LLC
100 Riverpark Drive, Suite 125 North Reading, MA 01864,
United States of America
Manufacturer: Immedia Semiconductor LLC
100 Riverpark Drive, Suite 125 North Reading, MA 01864,
United States of America
Brand Name: blink
Model No. / ISED HVIN: BDM00300U
ISED PMN: BDM00300U
Report Number: TERF2503000971E2
FCC ID 2AF77-H2441840
IC: 20741-H2441840
Date of EUT Received: March 6, 2025
Date of Test: January 15, 2025 ~ April 22, 2025
Issue Date: April 24, 2025

Arno Hsieh

Approved By

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 C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-Gen and RSS-247.

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

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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Revision History

| Report Number | Revision | Description | Issue Date | Revised By | Remark |
|------------------|----------|-------------|----------------|-------------|--------|
| TERF2503000971E2 | 00 | Original | April 24, 2025 | Karen Huang | |
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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 | Doorbell |
| Brand Name: | blink |
| Model No. / ISED HVIN: | BDM00300U |
| Hardware Version: | DVT2 |
| Firmware Version: | N/A |
| EUT Series No.: | GLC3QW01503400U1 |
| Power Supply: | 4.5Vdc from Battery |
| Test Software (Name/Version) | Tera Trem V4.106 |

1.2 RF Specification

| | |
|----------------------|----------------------------------|
| Radio Technology: | LFR |
| Frequency Range: | 902 – 928MHz |
| Channel number: | 64 channels |
| Modulation type: | FSK |
| Transmit Power: | 14.91 dBm (Peak) |
| Dwell Time: | <= 0.4s |
| Operating Mode: | Point-to-Point |
| Antenna Designation: | PIFA Antenna, Peak Gain: 0.21dBi |

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

1.4 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation number | IC CAB identifier |
|--|---|----------------|------------------------|-------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1 | TW0027 | TW3702 |
| | | SAC 2 | | |
| | | SAC 3 | | |
| | | Conduction 1 | | |
| | | Conducted 1 | | |
| | | Conducted 2 | | |
| | | Conducted 3 | | |
| | | Conducted 4 | | |
| | | Conducted 5 | | |
| | | Conducted 6 | | |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C | TW0028 | |
| | | SAC C | | |
| | | SAC D | | |
| | | SAC G | | |
| | | Conducted A | | |
| | | Conducted B | | |
| | | Conducted C | | |
| | | Conducted D | | |
| | | Conducted E | | |
| | | Conducted F | | |
| Conducted G | | | | |
| Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address. | | | | |

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

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

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

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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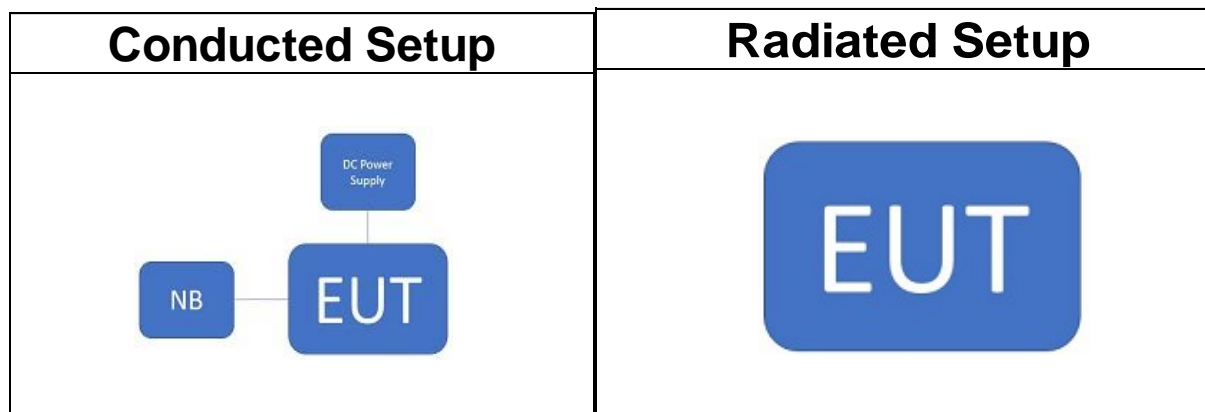
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2.5 Test Configuration



2.6 Control Unit(s)

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

| Radiated Emission Test Site: SAC D | | | | | |
|------------------------------------|--------|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| USB Cable | N/A | N/A | N/A | N/A | N/A |
| Notebook | Lenovo | T14 | P0003332 | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | IC Rules | Description Of Test | Result |
|----------------------------------|---|--|-----------|
| §15.207(a) | RSS-Gen §8.8 | AC Power Line Conducted Emission | N/A |
| §15.247(a)(1)(i) | RSS-247 §5.2 a RSS-Gen §6.7 | Emission Bandwidth | Compliant |
| §15.247(a)(1)(i) | RSS-247 §5.1 c | Number of Hopping Frequency | Compliant |
| §15.247(a)(1) | RSS-247 §5.1 b | Frequency Separation | Compliant |
| §15.247(b)(2) | RSS-247 §5.4 a | Peak Output Power | Compliant |
| §15.247(a)(1)(i) | RSS-247 §5.1 c | Time of Occupancy | Compliant |
| §15.205 §15.209 §15.247(d) | RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 | Conducted & Radiated Band Edge and Spurious Emission | Compliant |
| §15.203 | N/A | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

| 902~928 MHz | | | | | | | |
|-------------|----------------|----|----------------|----|----------------|----|----------------|
| CH | Freq. (MHz) | CH | Freq. (MHz) | CH | Freq. (MHz) | CH | Freq. (MHz) |
| 1 | 902.4 | 21 | 910.4 | 41 | 918.4 | 61 | 926.4 |
| 2 | 902.8 | 22 | 910.8 | 42 | 918.8 | 62 | 926.8 |
| 3 | 903.2 | 23 | 911.2 | 43 | 919.2 | 63 | 927.2 |
| 4 | 903.6 | 24 | 911.6 | 44 | 919.6 | 64 | 927.6 |
| 5 | 904 | 25 | 912 | 45 | 920 | | |
| 6 | 904.4 | 26 | 912.4 | 46 | 920.4 | | |
| 7 | 904.8 | 27 | 912.8 | 47 | 920.8 | | |
| 8 | 905.2 | 28 | 913.2 | 48 | 921.2 | | |
| 9 | 905.6 | 29 | 913.6 | 49 | 921.6 | | |
| 10 | 906 | 30 | 914 | 50 | 922 | | |
| 11 | 906.4 | 31 | 914.4 | 51 | 922.4 | | |
| 12 | 906.8 | 32 | 914.8 | 52 | 922.8 | | |
| 13 | 907.2 | 33 | 915.2 | 53 | 923.2 | | |
| 14 | 907.6 | 34 | 915.6 | 54 | 923.6 | | |
| 15 | 908 | 35 | 916 | 55 | 924 | | |
| 16 | 908.4 | 36 | 916.4 | 56 | 924.4 | | |
| 17 | 908.8 | 37 | 916.8 | 57 | 924.8 | | |
| 18 | 909.2 | 38 | 917.2 | 58 | 925.2 | | |
| 19 | 909.6 | 39 | 917.6 | 59 | 925.6 | | |
| 20 | 910 | 40 | 918 | 60 | 926 | | |

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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 Investigation has been done on all the possible configurations for searching the worst case.

| TRANSMIT RADIATED EMISSION TEST | | | |
|---------------------------------|----------------------|----------------------|------------|
| MODE | FREQUENCY BAND (MHz) | TEST FREQUENCY (MHz) | MODULATION |
| LFR | 902.4 to 927.6 | 902.4, 915.2, 927.6 | FSK |

Note: The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

| ANTENNA PORT CONDUCTED TEST | | | |
|--|---------------------|---|------------|
| MODE | AVAILABLE FREQUENCY | TESTED FREQUENCY | MODULATION |
| Peak Output Power, 20dB Band Width, Spurious Emission | | | |
| LFR | 902.4 to 927.6 | 902.4, 915.2, 927.6 | FSK |
| Band Edge | | | |
| LFR | 902.4 to 927.6 | 902.4, 927.6 | FSK |
| Frequency Separation | | | |
| LFR | 902.4 to 927.6 | 902.4, 902.8, 903.2 914.8, 915.2, 915.6 926.8, 927.2, 927.6 | FSK |
| Number of Hopping Frequency, Hopping Band edge | | | |
| LFR | 902.4 to 927.6 | 902.4 to 927.6 | FSK |
| Time of Occupancy(Dwell time) | | | |
| LFR | 902.4 to 927.6 | 915.2 | FSK |

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5 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 |
| Frequency Separation | +/- 1.48 Hz |
| Number of hopping frequency | +/- 1.48 Hz |
| Time of Occupancy | +/- 1.48 Hz |
| 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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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

N/A

6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted C | | | | | |
|---|------------|---------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Attenuator | Woken | WATT-218FS-10 | RF18 | 11/14/2024 | 11/13/2025 |
| Attenuator | Woken | WATT-218FS-10 | RF19 | 11/14/2024 | 11/13/2025 |
| DC Block | PASTERNAK | PE8210 | RF35 | 11/14/2024 | 11/13/2025 |
| DC Power Supply | Agilent | E3640A | MY53170008 | 08/29/2024 | 08/28/2025 |
| Power Meter | Anritsu | ML2496A | 1512003 | 09/04/2024 | 09/03/2025 |
| Power Sensor | Anritsu | MA2411B | 1339378 | 09/04/2024 | 09/03/2025 |
| Power Sensor | Anritsu | MA2411B | 1339379 | 09/04/2024 | 09/03/2025 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY59071573 | 05/24/2024 | 05/23/2025 |
| Test Software | SGS Taiwan | Radio Test Software | Ver.21 | N.C.R | N.C.R |

6.3 Radiated Measurement

| Radiated Emission Test Site: SAC D | | | | | |
|------------------------------------|-------------------|--|---|---------------------------|--------------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| 3m Site NSA | SGS | 966 chamber D | N/A | 04/30/2024 | 04/29/2025 |
| Attenuator | Woken | WATT-218FS-10 | RF17 | 11/14/2024 | 11/13/2025 |
| Broadband Antenna | SCHWARZBECK | VULB 9168 | 9168-617 | 12/17/2024 | 12/16/2025 |
| Coaxial Cable | EMCI+Huber Suhner | RG 214/U+EMC104-SM-SM-500+SUCOFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300 | W22.01+W21.01+15 0707+MY969/4+16+1 90825+150702 | 11/14/2024 | 11/13/2025 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1341 | 05/30/2024 | 05/29/2025 |
| Lowpass Filter | Woken | EWI-56-0019 | RF163 | 11/14/2024 | 11/13/2025 |
| Pre-Amplifier | EMC Instruments | EMC12630SE | 980273 | 11/14/2024 | 11/13/2025 |
| Pre-Amplifier | EMC Instruments | EMC9135 | 980234 | 11/14/2024 | 11/13/2025 |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 10/16/2024 | 10/15/2025 |
| Active Loop Antenna | COM-POWER | AL-130R | 10160105 | 12/11/2024 | 12/10/2025 |
| 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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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency within 150 kHz 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 |

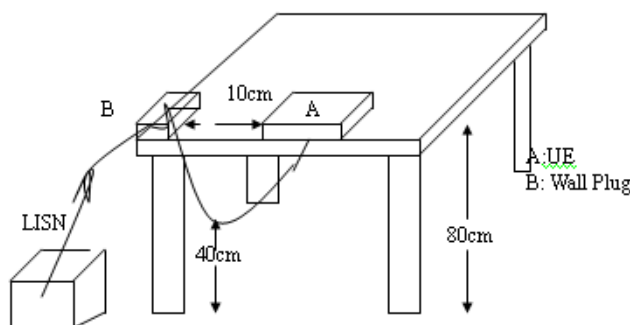
Note

- 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.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Set-up:



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

7.5 Measurement Result

N/A; Powered from AA battery.

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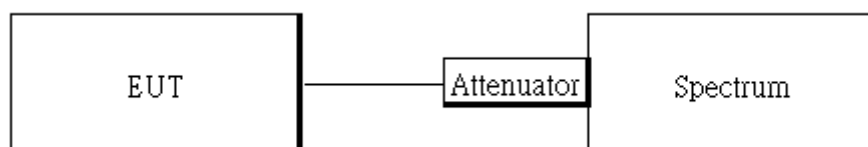
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8 EMISSION BANDWIDTH

8.1 Standard Applicable

The minimum 6 dB bandwidth shall be 500 kHz.

8.2 Test Setup



8.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=1% to 5% OBW, VBW = 3 x RBW, Span= large enough to capture all products of the modulation process, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
4. Mark the peak frequency and -20dB (upper and lower) frequency and Turn on the 99% bandwidth function, max reading.
5. Repeat above procedures until all test default channel is completed

8.4 20dB Bandwidth

FSK

| CH | 20 dB BW (MHz) | 2/3 BW (MHz) |
|-------|----------------|--------------|
| 902.4 | 0.105 | 0.07 |
| 915.2 | 0.1057 | 0.07 |
| 927.6 | 0.1048 | 0.07 |

8.5 99% Bandwidth

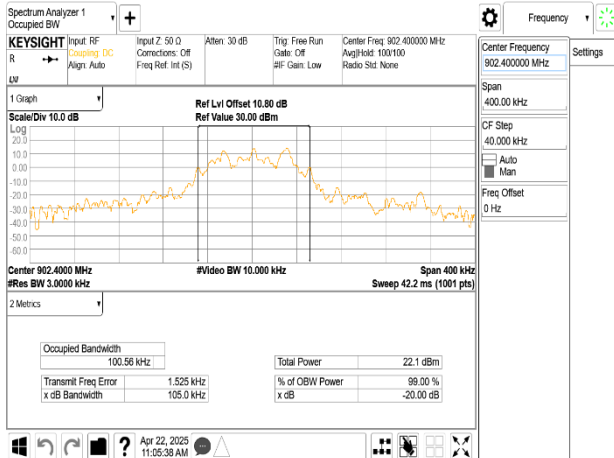
FSK

| CH | 99% BW (MHz) |
|-------|--------------|
| 902.4 | 0.10106 |
| 915.2 | 0.10059 |
| 927.6 | 0.10002 |

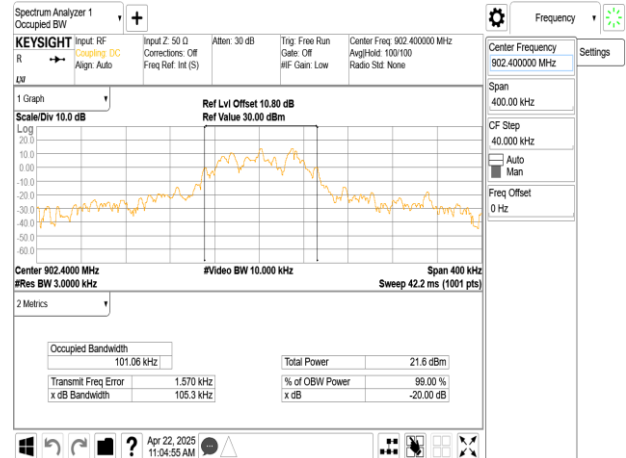
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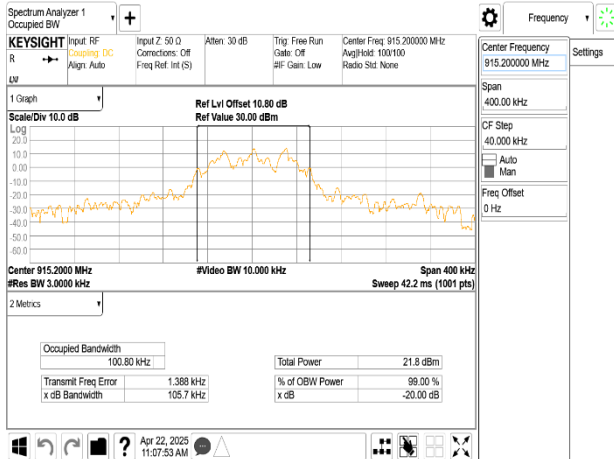
OBW 20dB_FSK_902.4MHz



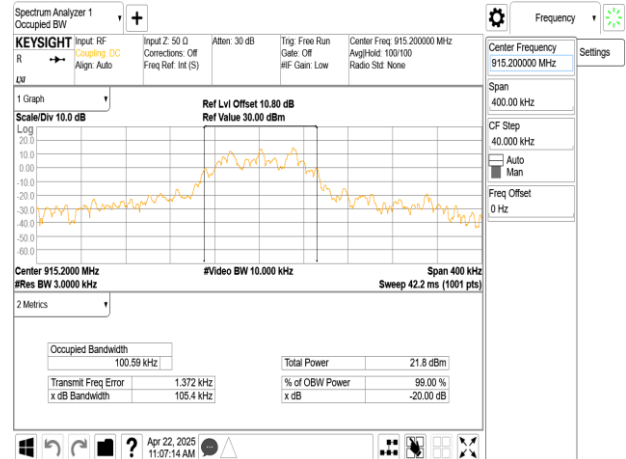
IC OBW 99%_FSK_902.4MHz



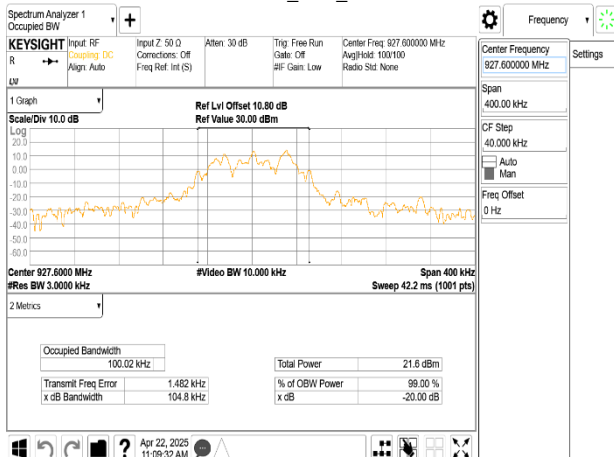
OBW 20dB_FSK_915.2MHz



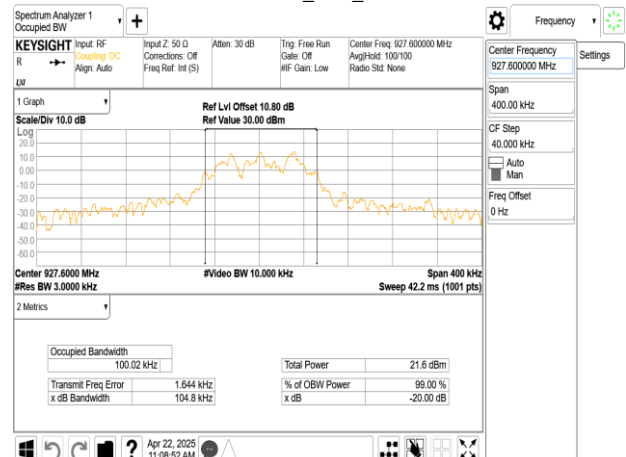
IC OBW 99%_FSK_915.2MHz



OBW 20dB_FSK_927.6MHz



IC OBW 99%_FSK_927.6MHz



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9 NUMBER OF HOPPING FREQUENCY

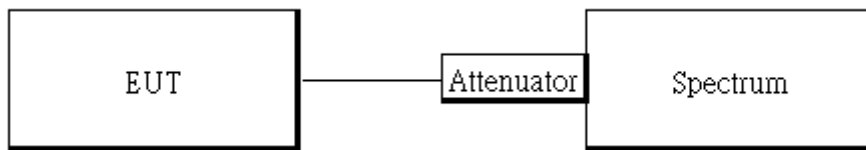
9.1 Standard Applicable

Frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies.

if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.

The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

9.2 Test Setup



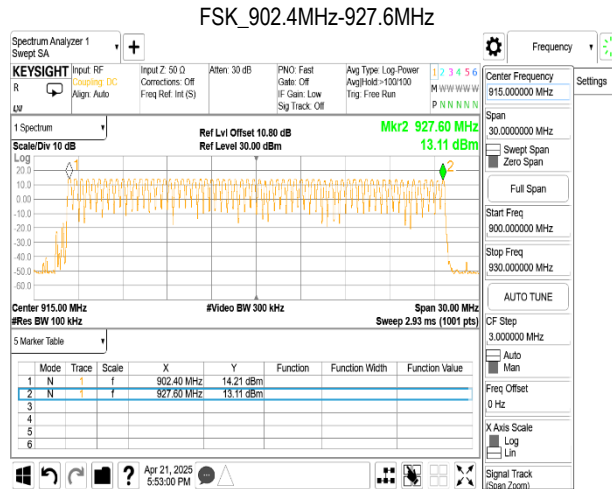
9.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set spectrum analyzer Start= 902.4MHz, Stop = 927.6MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW< 30% Freq. spacing or the 20 dB bandwidth, whichever is smaller, VBW ≥ RBW, Detector = Peak
6. Max hold, view and count how many channel in the band.

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9.4 Measurement Result:



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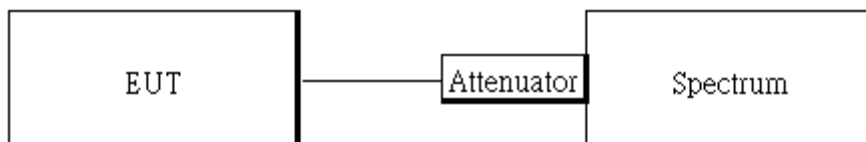
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10 FREQUENCY SEPARATION

10.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

10.2 Test Setup



10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = middle of hopping channel.
5. Set the RBW approximately 30% of the channel spacing, $VBW \geq RBW$.
6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
7. Sweep = auto.
8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

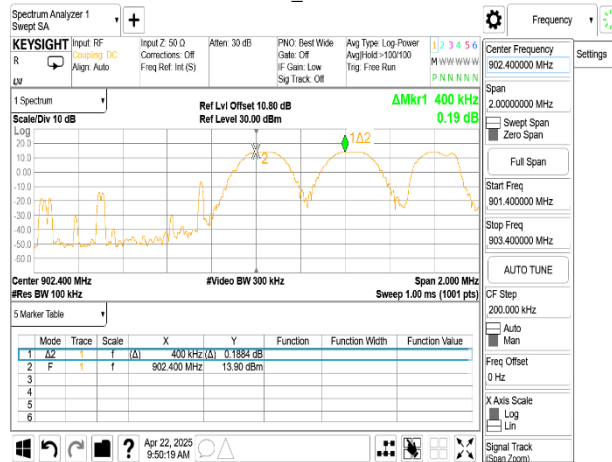
10.4 Measurement Result

| Channel separation (kHz) | Limit | Result |
|--------------------------|--|--------|
| 400 | ≥ 25 kHz or 2/3 times 20dB bandwidth | PASS |

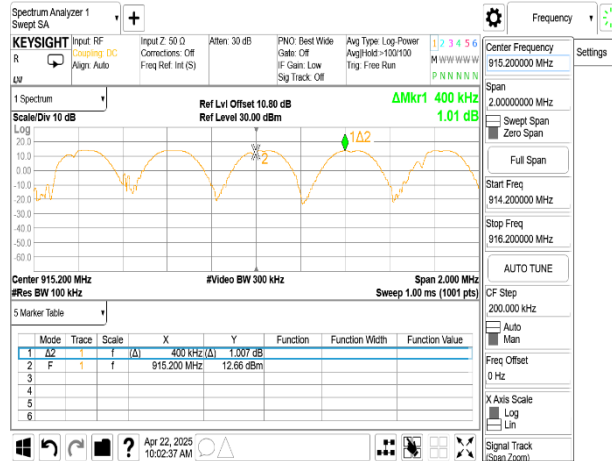
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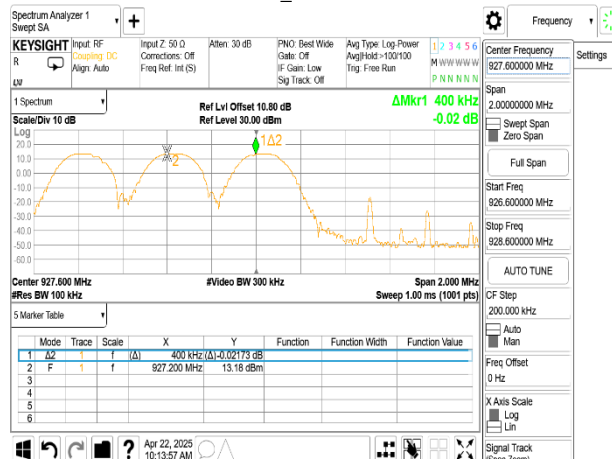
FSK_CH1CH2



FSK_CH32CH33



FSK_CH63CH64



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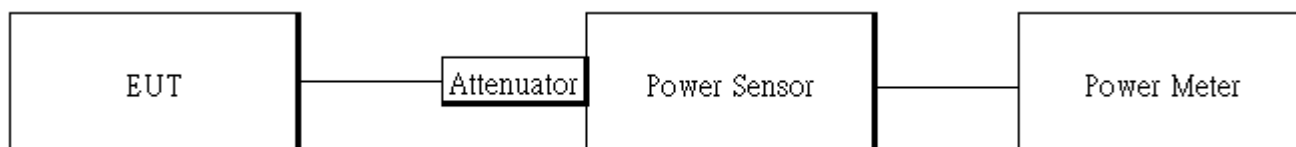
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11 PEAK OUTPUT POWER MEASUREMENT

11.1 Standard Applicable

For frequency hopping systems operating in the 902-928 MHz band employing at least 50 hopping channels, conducted output power shall not exceed 1Watt and EIRP shall not exceed 4W. For systems employing less than 50 hopping channels, conducted output power shall not exceed 0.25Watt and EIRP shall not exceed 1W.

11.2 Test Setup



11.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW \geq 20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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11.4 Measurement Result

FSK mode (Peak):

| Freq. (MHz) | Power Setting | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|----------------|------------------|----------------------------------|-------------------------|---------------|
| 902.4 | 6 | 14.91 | 30.974 | 1000 |
| 915.2 | 6 | 14.71 | 29.580 | 1000 |
| 927.6 | 6 | 14.55 | 28.510 | 1000 |

FSK mode (Average):

| Freq. (MHz) | Power Setting | Avg. Output Power (dBm) | Output Power (mW) | Limit (mW) |
|----------------|------------------|----------------------------------|-------------------------|---------------|
| 902.4 | 6 | 14.70 | 29.528 | 1000 |
| 915.2 | 6 | 14.52 | 28.330 | 1000 |
| 927.6 | 6 | 14.47 | 28.005 | 1000 |

***Note:** Avg. output power has been calculated with duty factor.

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12 TIME OF OCCUPANCY (DWELL TIME)

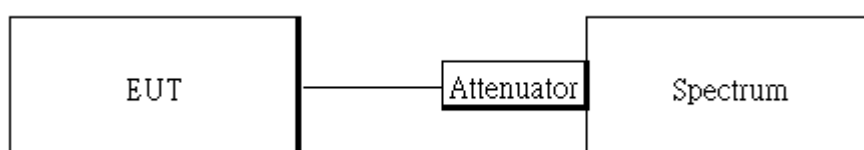
12.1 Standard Applicable

For FHSs in the band 902-928 MHz:

if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 20-second period.

If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 10-second period.

12.2 Test Setup



12.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=100kHz, 300kHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 50ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

12.4 Tabular Result of the Measurement:

FSK

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) | 1/T (kHz) | 1/T Minimum VBW(kHz) |
|---------|-------------|-------------------------|------------|-----------|----------------------|
| 915.2 | FSK | 9.60 | 400 | 0.104 | 1.00 |

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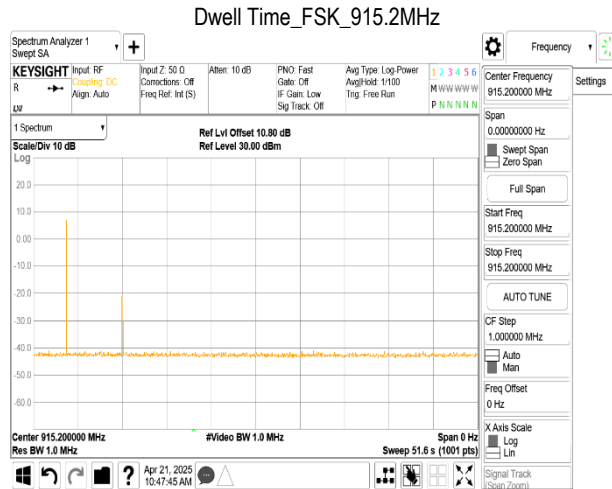
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12.5 Measurement Result:



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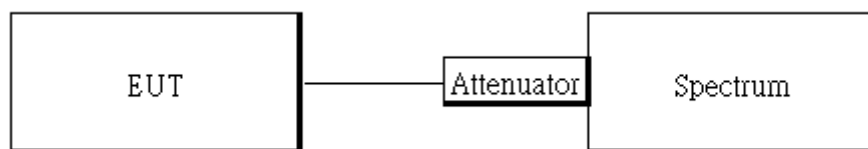
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13 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

13.1 Standard Applicable

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, as defined in §15.205(a) and RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) and RSS-Gen §8.9.

13.2 Test Setup



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13.3 Measurement Procedure

Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows ANSI C63.10:2013.
3. Set RBW = 100 kHz & VBW = 300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

NOTE: cable loss as 0.8dB that offsets in the spectrum

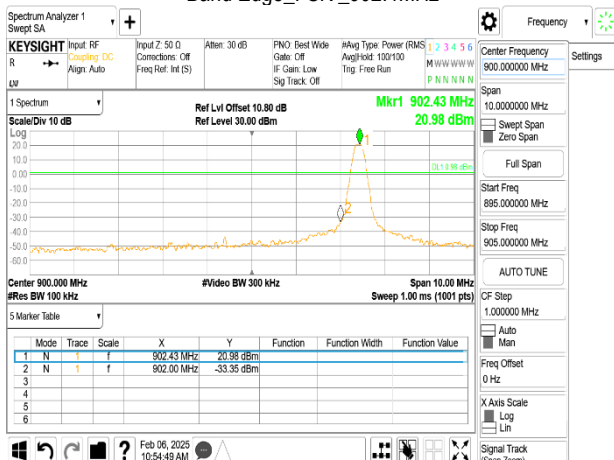
13.4 Measurement Result

See next page for test plots.

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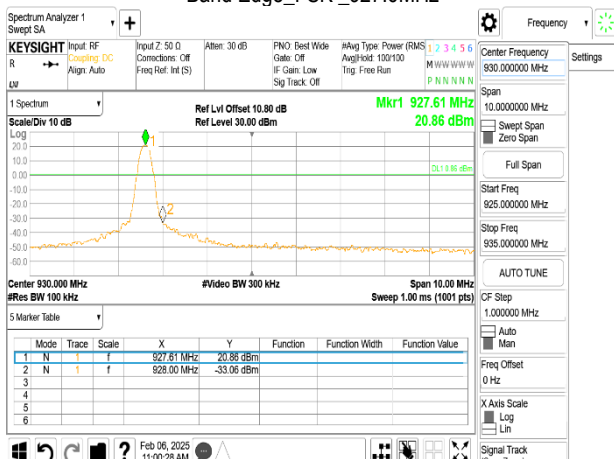
Band Edge_FSK_902.4MHz



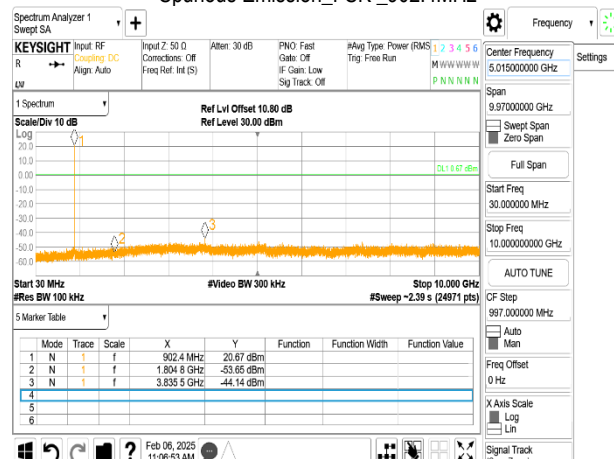
Hopping Band Edge_FSK_927.6MHz



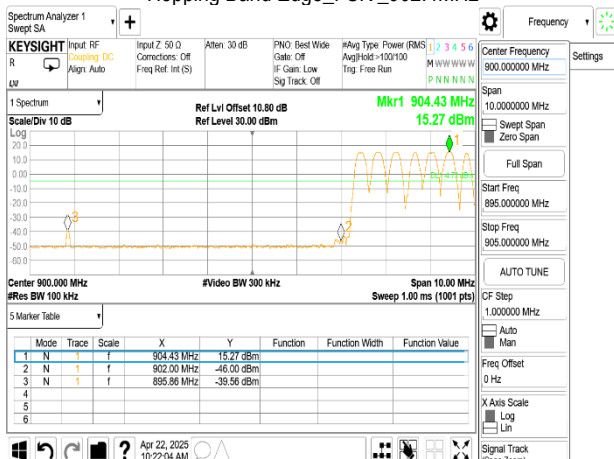
Band Edge_FSK_927.6MHz



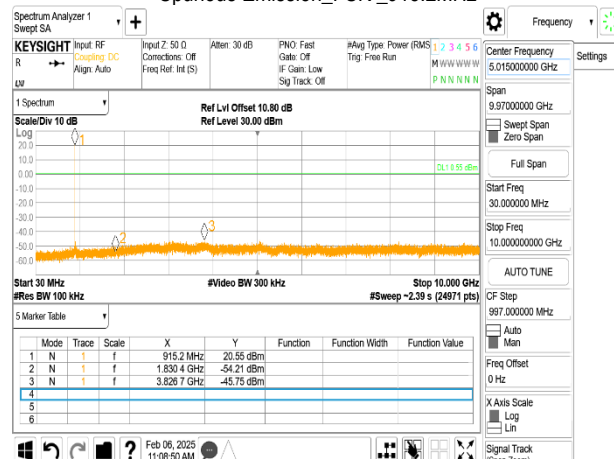
Spurious Emission_FSK_902.4MHz



Hopping Band Edge_FSK_902.4MHz



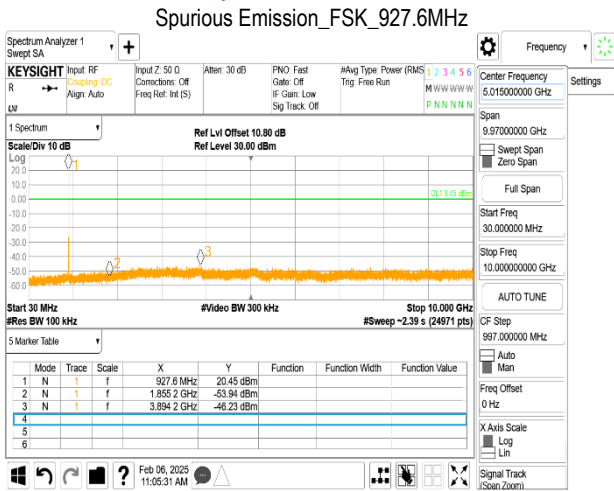
Spurious Emission_FSK_915.2MHz



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14 SPURIOUS RADIATED EMISSION TEST

14.1 Standard Applicable

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 §15.209 limit as below.

And according to §15.33(a) (1), 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:

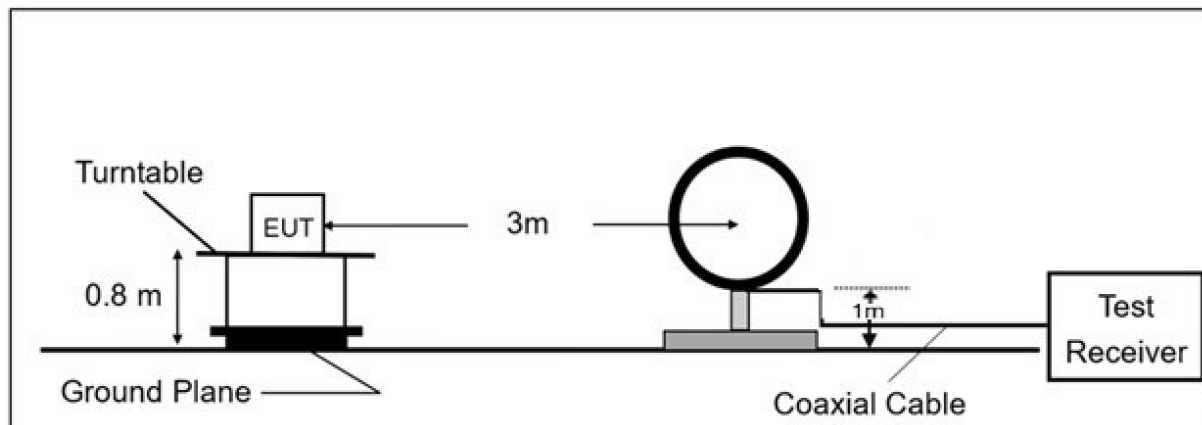
1. The lower limit shall apply at the transition frequencies.

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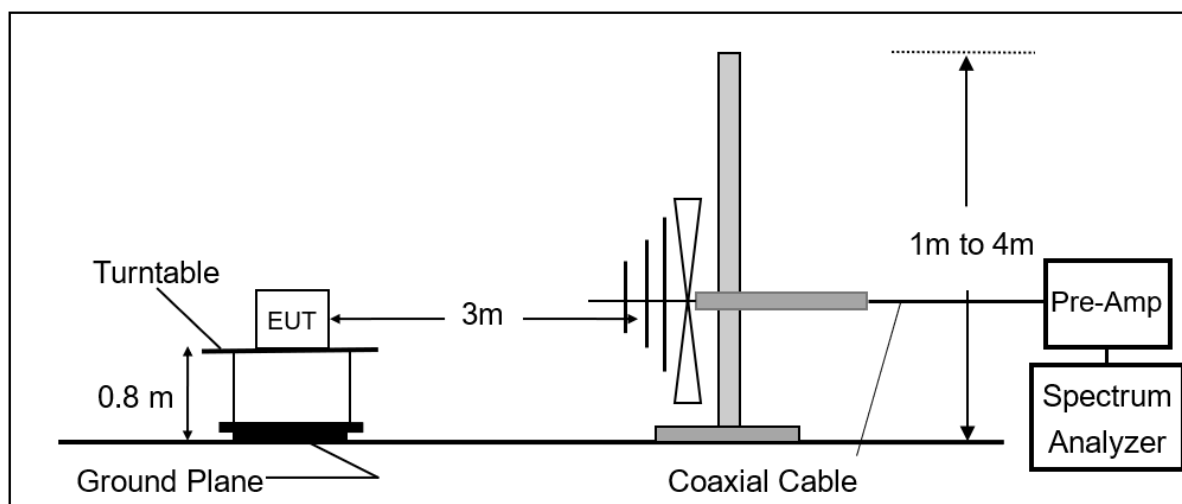
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14.2 Test Setup

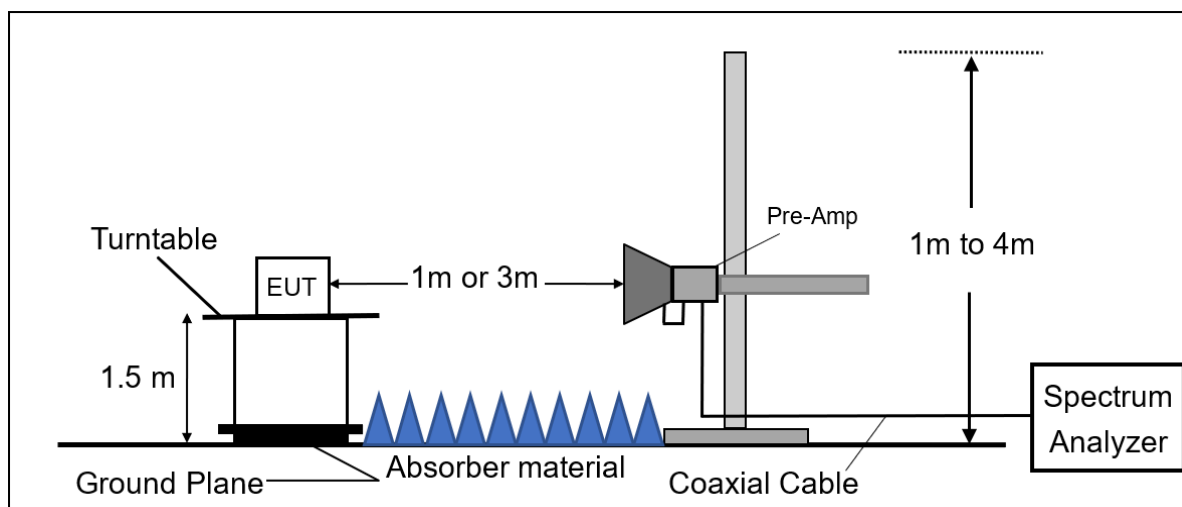
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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14.3 Measurement Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$.
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.
12. Repeat above procedures until all default test channel measured were complete.

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14.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

| | |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

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

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

14.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

14.6 AVG Duty Cycle Factor calculation

N/A

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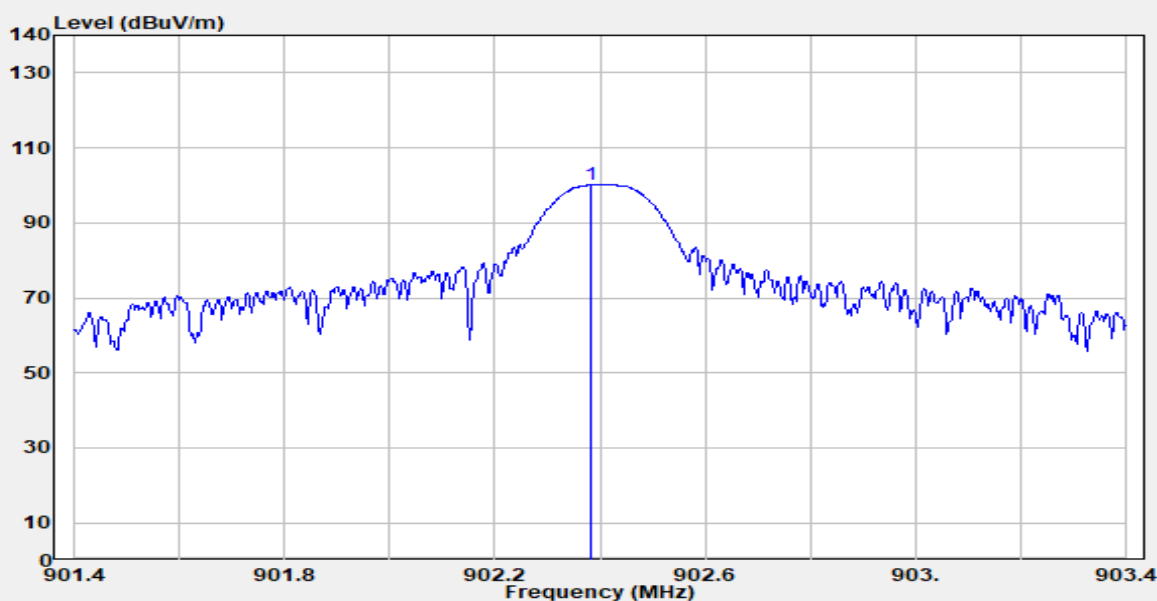
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14.7 Measurement Result:**14.7.1 Main Result**

Report Number :TERF2502000809E2
Operation Mode :FSK
Test Frequency :902.4 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.2°C/55%
Antenna Pol. :Vertical
Engineer :Temo Chen



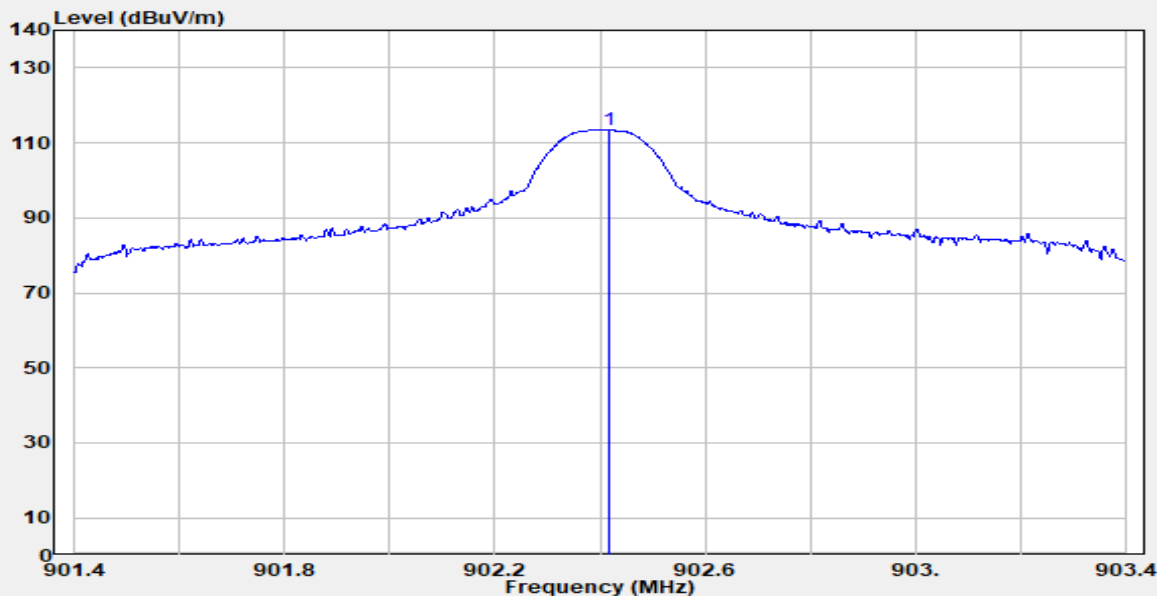
| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|----------|---------------|--------|--------------|--------------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 902.38 | Peak | 105.36 | -5.30 | 100.06 | - | - |

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Report Number :TERF2502000809E2
 Operation Mode :FSK
 Test Frequency :902.4 MHz
 Test Mode :Main
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



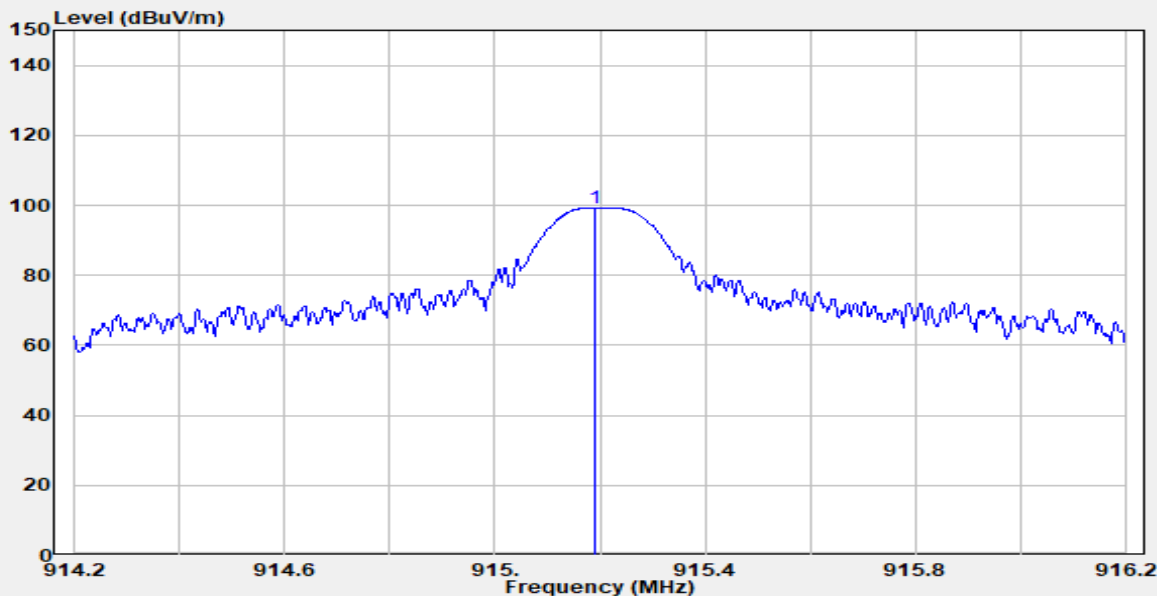
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 902.42 | Peak | 118.62 | -5.30 | 113.32 | - | - |

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Report Number :TERF2503000971E2
Operation Mode :FSK
Test Frequency :915.2 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Vertical
Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 915.19 | Peak | 104.36 | -5.04 | 99.32 | - | - |

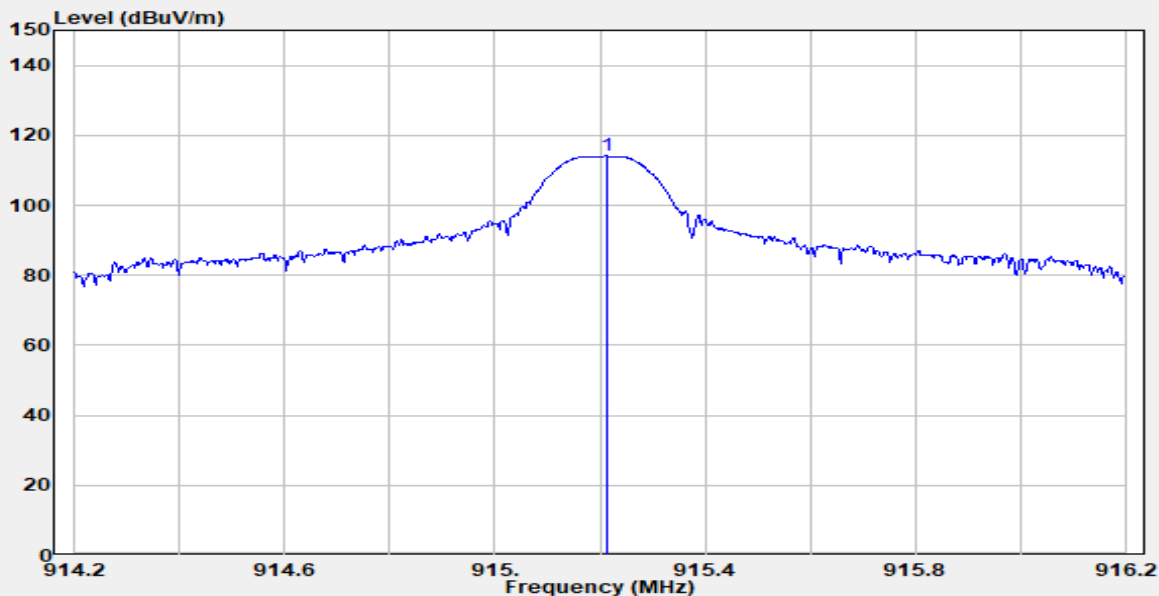
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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :915.2 MHz
 Test Mode :Main
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



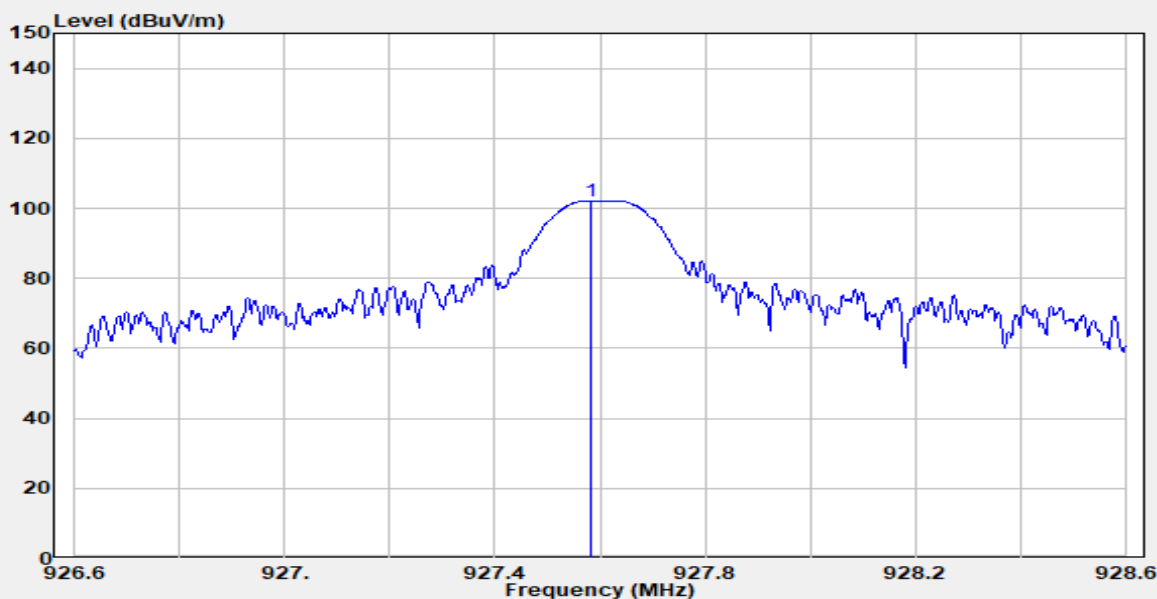
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 915.21 | Peak | 119.08 | -5.04 | 114.04 | - | - |

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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :927.6 MHz
 Test Mode :Main
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



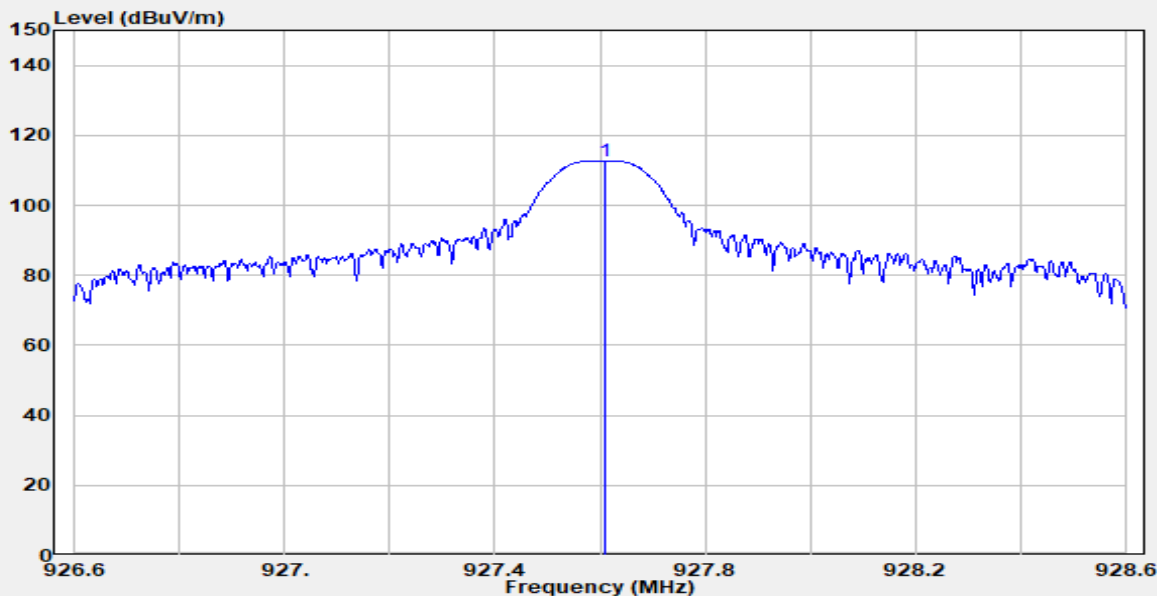
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 927.58 | Peak | 106.97 | -4.78 | 102.19 | - | - |

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Report Number :TERF2503000971E2
Operation Mode :FSK
Test Frequency :927.6 MHz
Test Mode :Main
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-08
Temp./Humi. :20.3°C/60%
Antenna Pol. :Horizontal
Engineer :Temo Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 927.61 | Peak | 117.38 | -4.78 | 112.60 | - | - |

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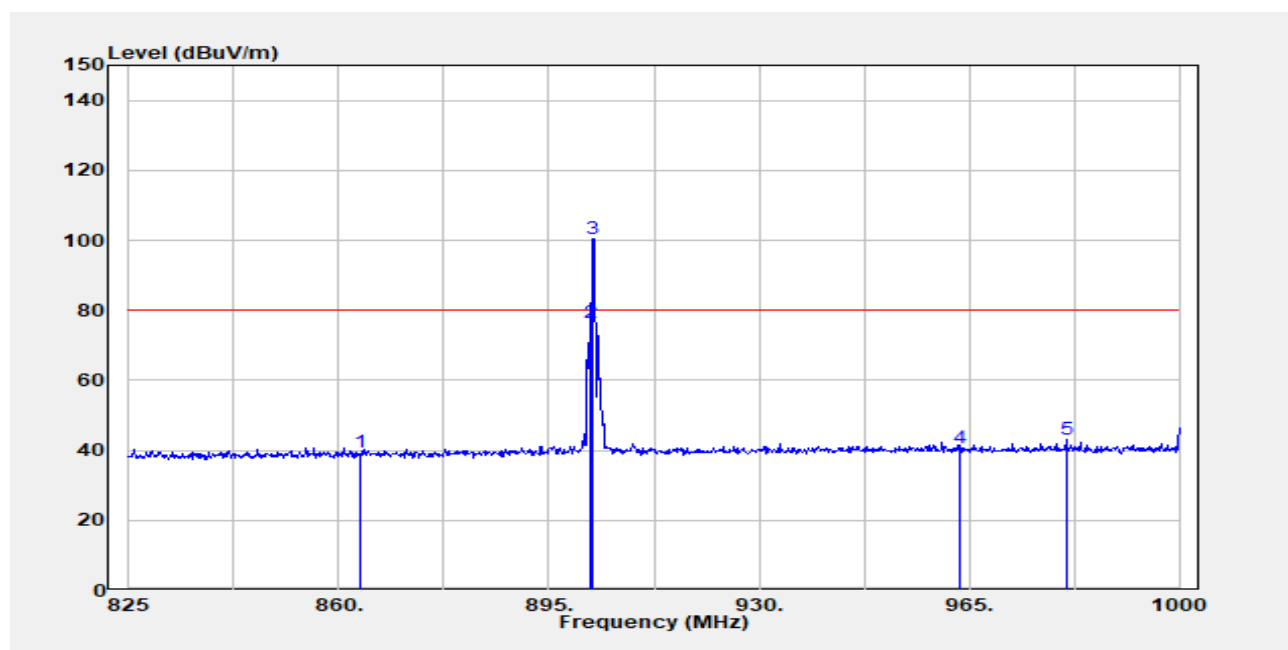
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14.7.2 Bandedge Result

Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :902.4 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



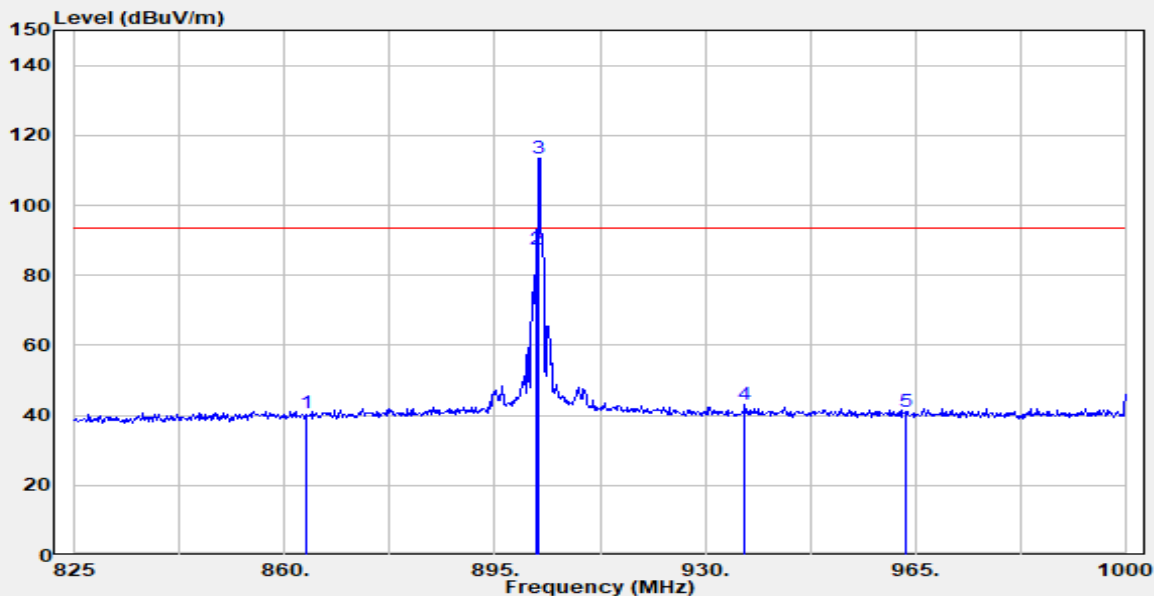
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 863.50 | Peak | 45.45 | -5.93 | 39.52 | 80.06 | -40.54 |
| 902.00 | Peak | 81.84 | -5.31 | 76.53 | 80.06 | -3.53 |
| 902.40 | Peak | 105.85 | -5.30 | 100.55 | - | - |
| 963.43 | Peak | 45.07 | -4.23 | 40.84 | 80.06 | -39.22 |
| 981.28 | Peak | 47.10 | -4.19 | 42.91 | 80.06 | -37.15 |

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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :902.4 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



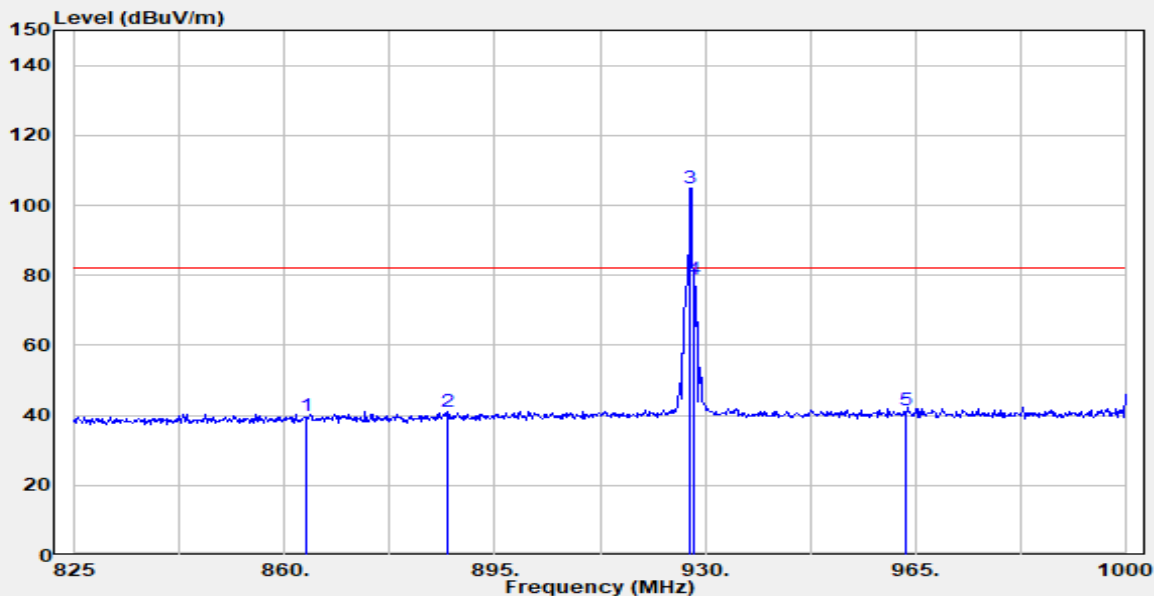
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 863.50 | Peak | 46.50 | -5.93 | 40.57 | 93.32 | -52.75 |
| 901.83 | Peak | 92.62 | -5.31 | 87.31 | 93.32 | -6.01 |
| 902.40 | Peak | 118.73 | -5.30 | 113.43 | - | - |
| 936.65 | Peak | 47.70 | -4.57 | 43.13 | 93.32 | -50.19 |
| 963.43 | Peak | 45.09 | -4.23 | 40.86 | 93.32 | -52.46 |

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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :927.6 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :21.3°C/68%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



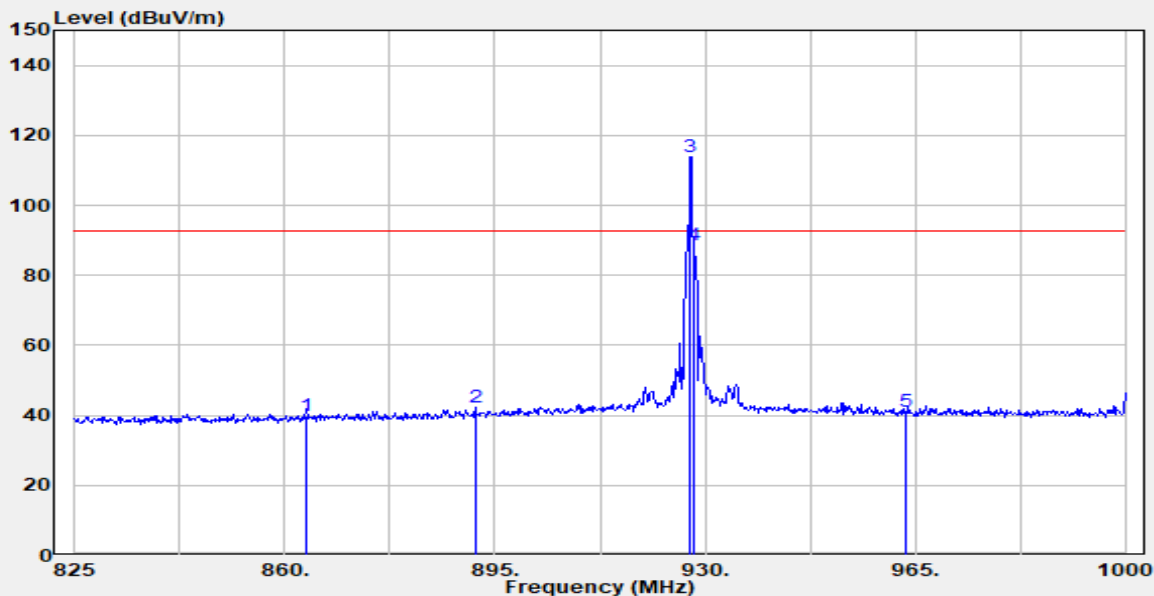
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 863.50 | Peak | 45.83 | -5.93 | 39.90 | 82.19 | -42.29 |
| 886.95 | Peak | 46.88 | -5.65 | 41.23 | 82.19 | -40.96 |
| 927.60 | Peak | 109.70 | -4.78 | 104.92 | - | - |
| 928.00 | Peak | 83.80 | -4.77 | 79.03 | 82.19 | -3.16 |
| 963.43 | Peak | 45.64 | -4.23 | 41.41 | 82.19 | -40.78 |

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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :927.6 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :21.3°C/68%
 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 863.50 | Peak | 45.90 | -5.93 | 39.97 | 92.60 | -52.63 |
| 891.68 | Peak | 47.91 | -5.58 | 42.33 | 92.60 | -50.27 |
| 927.60 | Peak | 118.63 | -4.78 | 113.85 | - | - |
| 928.00 | Peak | 93.59 | -4.77 | 88.82 | 92.60 | -3.78 |
| 963.43 | Peak | 45.17 | -4.23 | 40.94 | 92.60 | -51.66 |

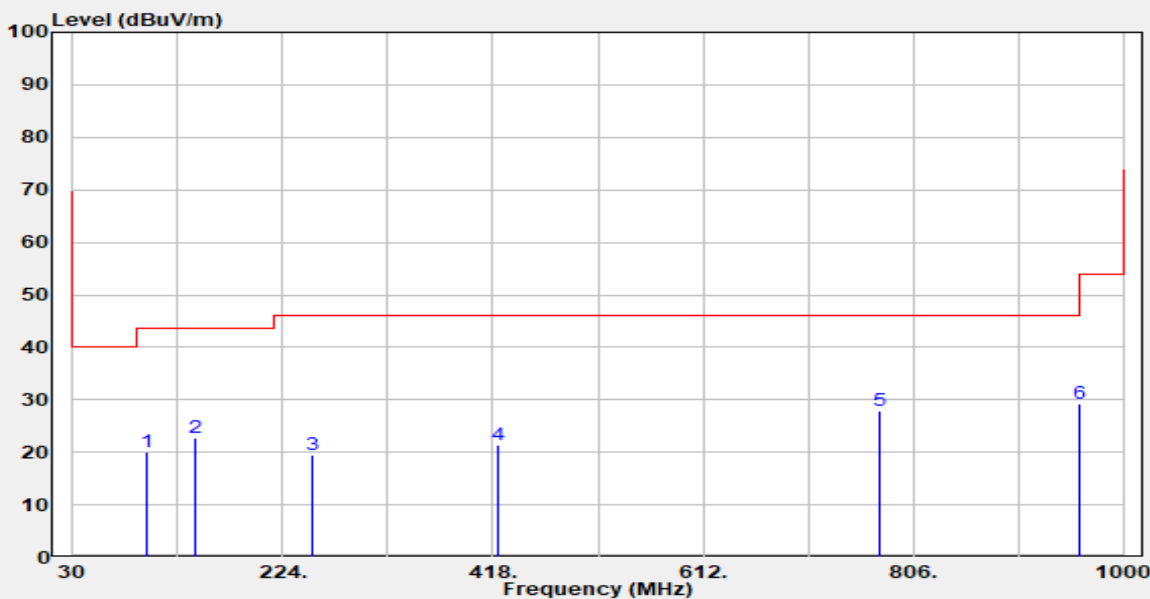
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14.7.3 Radiated Spurious Emission

Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :915.2 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/65%
 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 |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 97.61 | Peak | 42.16 | -22.19 | 19.97 | 43.50 | -23.53 |
| 143.88 | Peak | 39.65 | -16.91 | 22.74 | 43.50 | -20.76 |
| 252.03 | Peak | 37.34 | -17.88 | 19.46 | 46.00 | -26.54 |
| 423.04 | Peak | 34.27 | -12.93 | 21.34 | 46.00 | -24.66 |
| 774.28 | Peak | 34.29 | -6.40 | 27.89 | 46.00 | -18.11 |
| 959.26 | Peak | 33.48 | -4.25 | 29.23 | 46.00 | -16.77 |

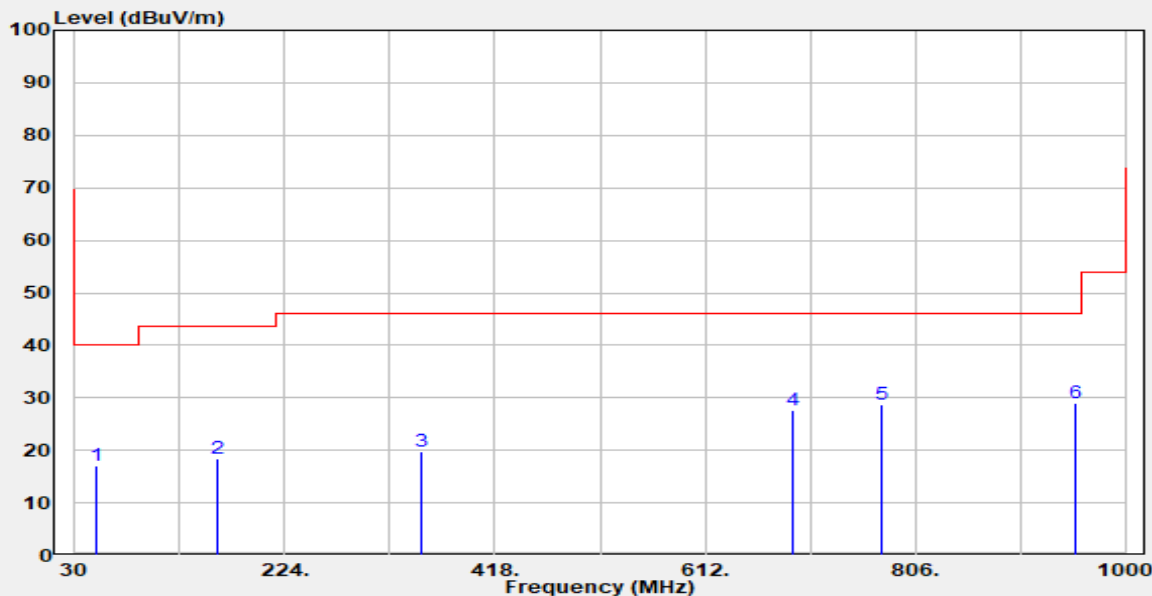
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :915.2 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-08
 Temp./Humi. :21.3°C/65%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



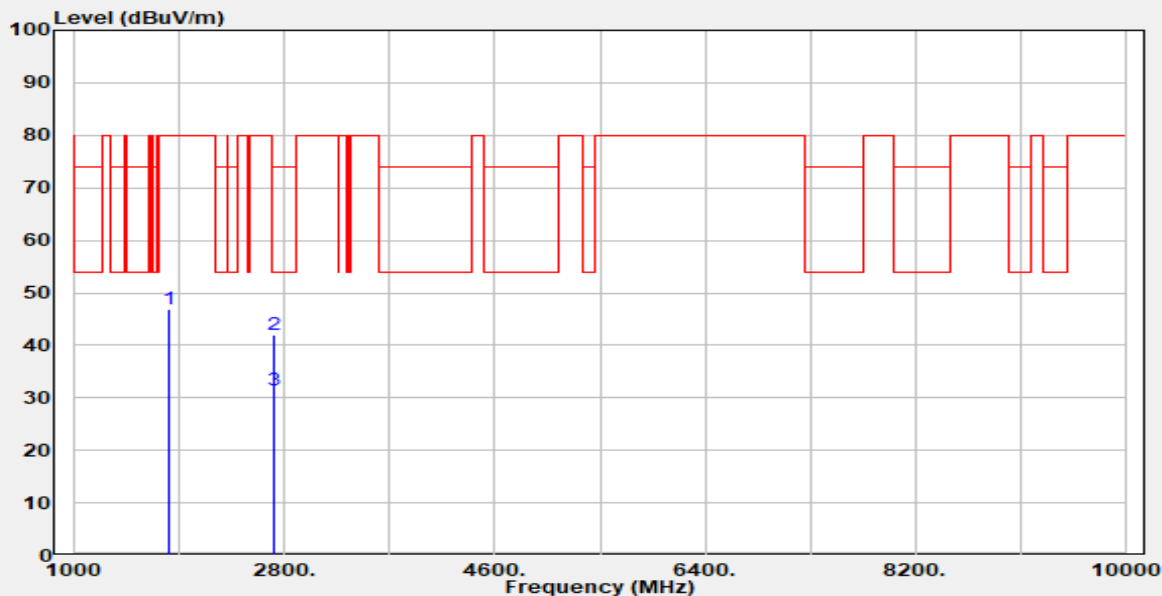
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBUV | Factor dB | Actual FS dBUV/m | Limit @3m dBUV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 49.50 | Peak | 34.45 | -17.43 | 17.02 | 40.00 | -22.98 |
| 162.50 | Peak | 35.01 | -16.54 | 18.47 | 43.50 | -25.03 |
| 350.10 | Peak | 34.71 | -14.93 | 19.78 | 46.00 | -26.22 |
| 693.58 | Peak | 35.59 | -7.99 | 27.60 | 46.00 | -18.40 |
| 775.83 | Peak | 35.13 | -6.38 | 28.75 | 46.00 | -17.25 |
| 953.34 | Peak | 33.36 | -4.30 | 29.06 | 46.00 | -16.94 |

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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :902.4 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



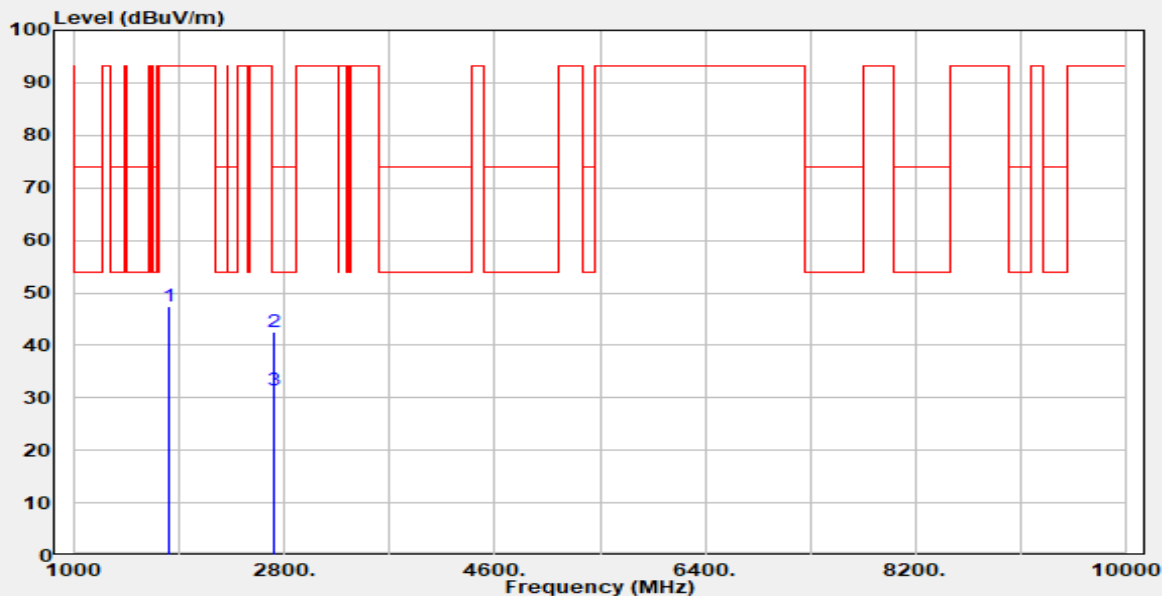
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 1804.80 | Peak | 47.27 | -0.40 | 46.87 | 80.06 | -33.19 |
| 2707.20 | Peak | 38.37 | 3.71 | 42.08 | 74.00 | -31.92 |
| 2707.20 | Average | 27.69 | 3.71 | 31.40 | 54.00 | -22.60 |

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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :902.4 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :20.3°C/60%
 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 1804.80 | Peak | 47.81 | -0.40 | 47.41 | 93.32 | -45.91 |
| 2707.20 | Peak | 38.90 | 3.71 | 42.61 | 74.00 | -31.39 |
| 2707.20 | Average | 27.84 | 3.71 | 31.55 | 54.00 | -22.45 |

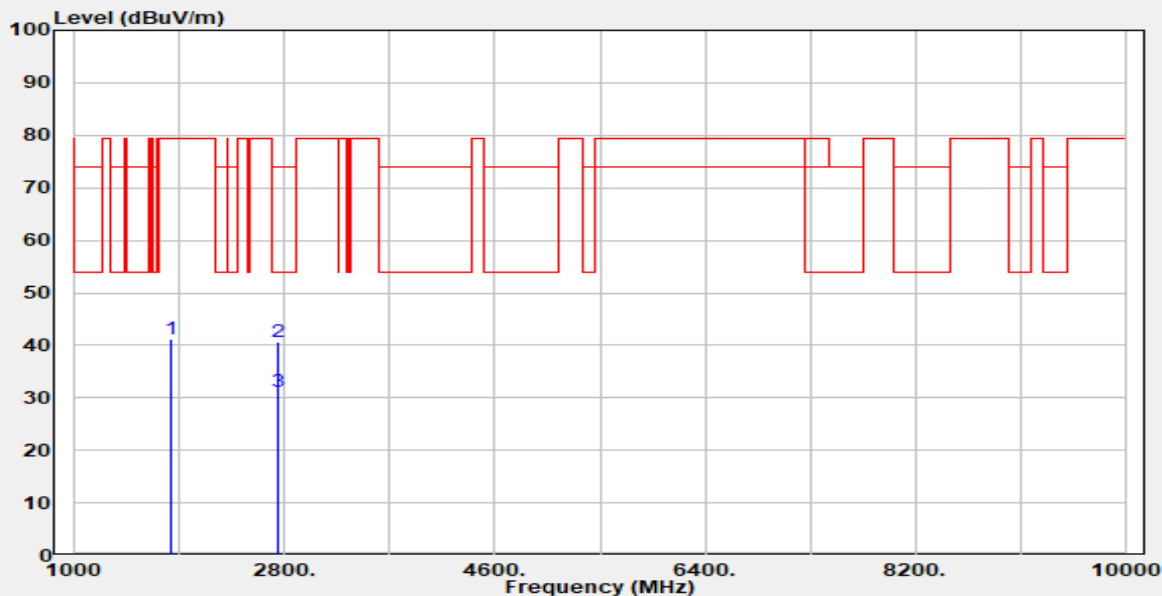
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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :915.2 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



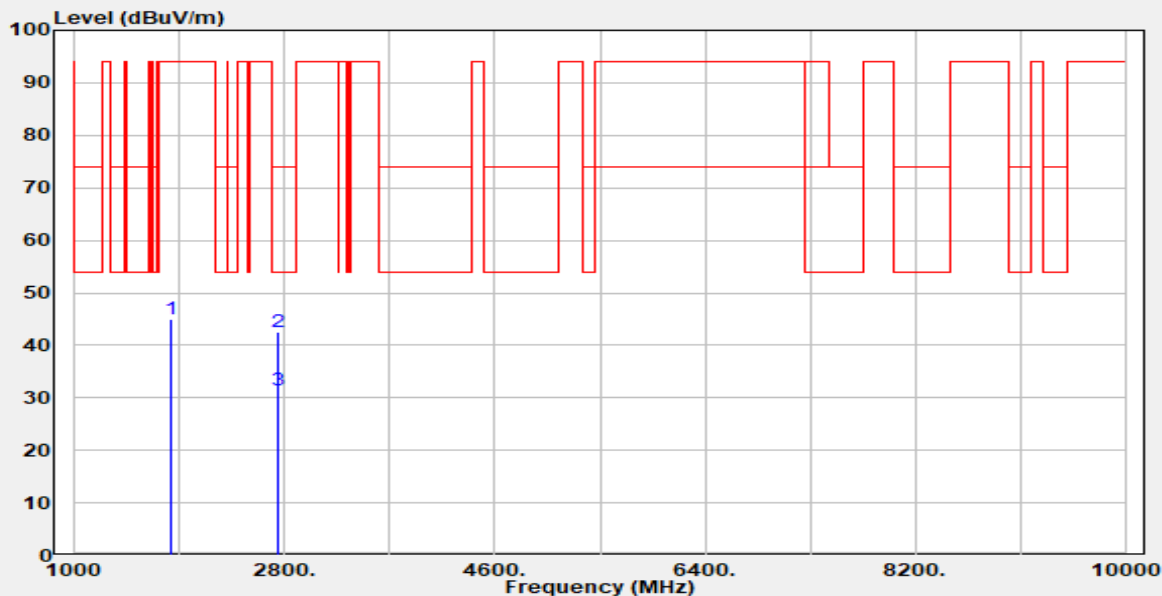
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 1830.40 | Peak | 41.58 | -0.27 | 41.31 | 94.04 | -49.01 |
| 2745.60 | Peak | 36.73 | 3.85 | 40.58 | 74.00 | -31.54 |
| 2745.60 | Average | 27.31 | 3.85 | 31.16 | 54.00 | -22.51 |

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Report Number :TERF2503000971E2
 Operation Mode :FSK
 Test Frequency :915.2 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-04-18
 Temp./Humi. :20.3°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



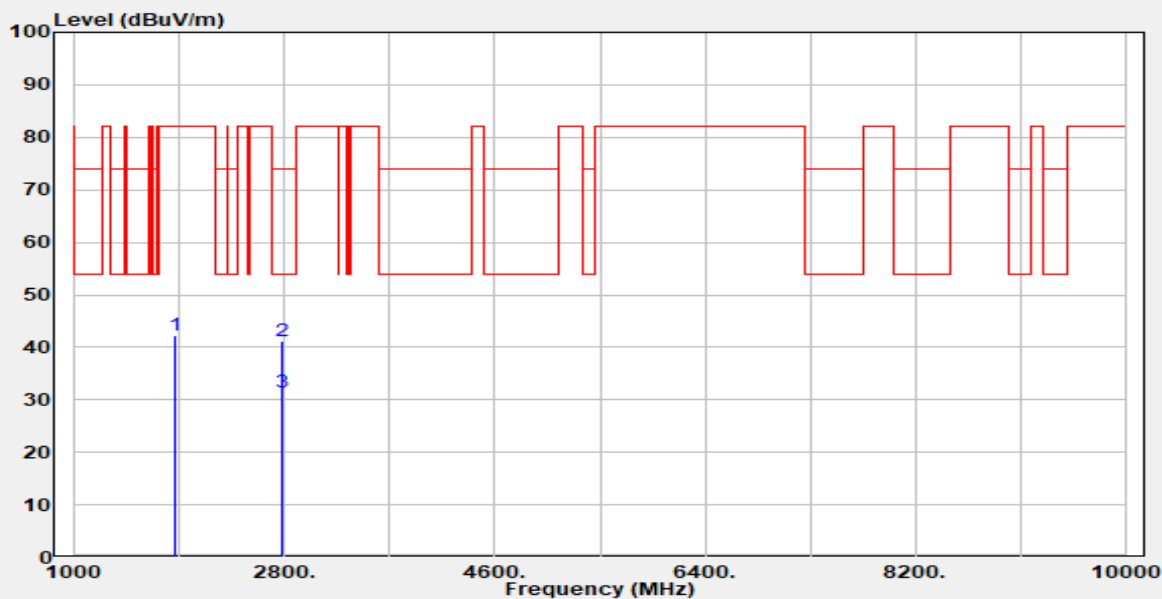
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 1830.40 | Peak | 45.30 | -0.27 | 45.03 | 94.04 | -49.01 |
| 2745.60 | Peak | 38.61 | 3.85 | 42.46 | 74.00 | -31.54 |
| 2745.60 | Average | 27.64 | 3.85 | 31.49 | 54.00 | -22.51 |

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Report Number :TERF2503000971E2
Operation Mode :FSK
Test Frequency :927.6 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-04-18
Temp./Humi. :20.3°C/60%
Antenna Pol. :Vertical
Engineer :Temo Chen



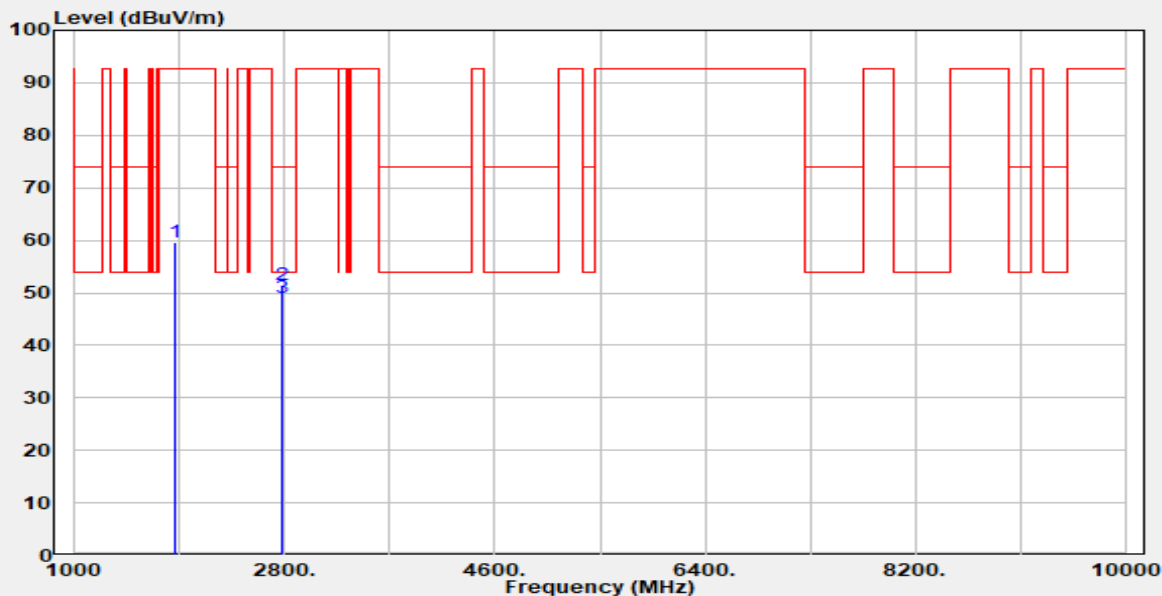
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 1855.20 | Peak | 42.15 | 0.02 | 42.17 | 82.19 | -40.02 |
| 2782.80 | Peak | 37.02 | 4.23 | 41.25 | 74.00 | -32.75 |
| 2782.80 | Average | 27.17 | 4.23 | 31.40 | 54.00 | -22.60 |

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Report Number :TERF2503000971E2
Operation Mode :FSK
Test Frequency :927.6 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-03-12
Temp./Humi. :20.3°C/60%
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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 1855.20 | Peak | 59.58 | 0.02 | 59.60 | 92.60 | -33.00 |
| 2782.80 | Peak | 47.39 | 4.23 | 51.62 | 74.00 | -22.38 |
| 2782.80 | Average | 44.76 | 4.23 | 48.99 | 54.00 | -5.01 |

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15 ANTENNA REQUIREMENT

15.1 Standard Applicable

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

15.2 Antenna Connected Construction:

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

~ End of Report ~

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