



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Outdoor Smart Plug
Applicant: Ring LLC
Manufacturer: Ring LLC
Brand Name: ring
Model No. /ISED HVIN: 5E22E9
Report Number: TERF2504001287E2
FCC ID 2AEUPRBWP001
IC: 20271-RBWP001
Date of EUT Received: April 7, 2025
Date of Test: April 7, 2025~April 29, 2025
Issue Date: May 21, 2025

Approved By

Aken Huang

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.

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Revision History

| Report Number | Revision | Description | Issue Date | Revised By | Remark |
|------------------|----------|---|--------------|------------|--------|
| TERF2504001287E2 | 00 | FCC C2PC/ ISED C3PC for increased frequency range | May 21, 2025 | Candice Li | |
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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 | Outdoor Smart Plug |
| Brand Name: | ring |
| Model No. /ISED HVIN: | 5E22E9 |
| Hardware Version: | MP |
| Firmware Version: | 5.0.3-81(rev.1) |
| EUT Series No.: | N/A |
| Power Supply: | 120V AC |
| Test Software (Name/Version) | J-Link Commander V7.96i |

1.2 RF Specification

| | |
|-------------------|------------------|
| Radio Technology: | FSK 100 Kbps |
| Frequency Range: | 902 – 928MHz |
| Channel number: | 31 channels |
| Modulation type: | FSK DTS |
| Transmit Power: | 13.34 dBm (Peak) |

1.3 Antenna Designation

| Antenna Type | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------------|-------------|-------------------------|
| PCB Layout Antenna | 902~928 | -3.8 |

Note: Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

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)

1.5 Test Facility

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

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. 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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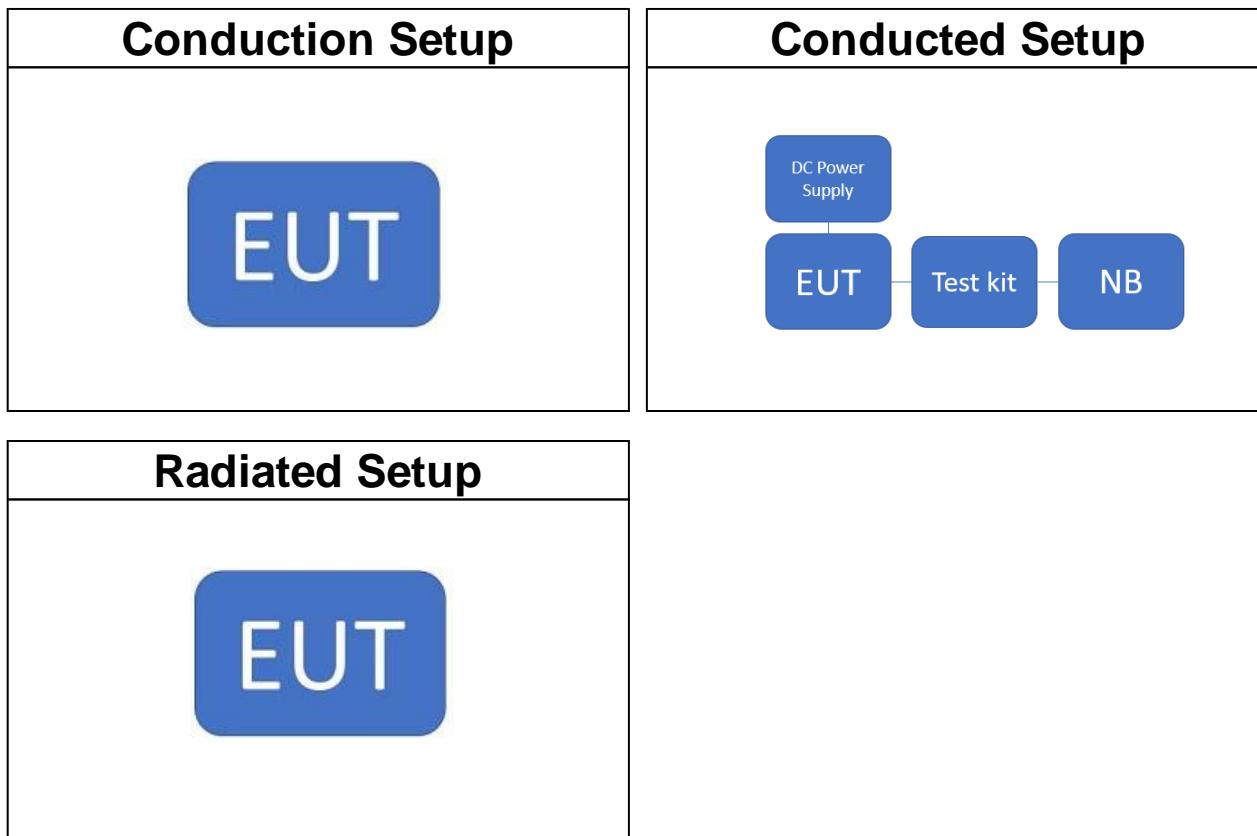
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2.5 Test Configuration



2.6 Control Unit(s)

| Conducted Emission Test Site: Conducted 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 |
| J-LINK BASE COMPACT | SEGGER | N/A | N/A | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | ISED Rules | Description Of Test | Result |
|----------------------------------|--------------------------------|---|-----------|
| §15.207(a) | RSS-Gen §8.8 | AC Power Line Conducted Emission | Compliant |
| §15.247(b) (3) | RSS-247 §5.4 d | Peak Output Power | Compliant |
| §15.247(a)(2) | RSS-247 §5.2 a RSS-Gen §6.7 | Emission Bandwidth | Compliant |
| §15.205 §15.209 §15.247(d) | RSS-247 §5.5 | Conducted Band Edge and Spurious Emission | Compliant |
| §15.205 §15.209 §15.247(d) | RSS-247 §5.5 | Radiated Band Edge and Spurious Emission | Compliant |
| §15.205 | RSS-Gen § 8.10 | Restricted Bands | Compliant |
| §15.247(e) | RSS-247 §5.2 b | Peak Power Density | 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 | 902.9 | 11 | 910.9 | 21 | 918.9 | 31 | 926.9 |
| 2 | 903.7 | 12 | 911.7 | 22 | 919.7 | | |
| 3 | 904.5 | 13 | 912.5 | 23 | 920.5 | | |
| 4 | 905.3 | 14 | 913.3 | 24 | 921.3 | | |
| 5 | 906.1 | 15 | 914.1 | 25 | 922.1 | | |
| 6 | 906.9 | 16 | 914.9 | 26 | 922.9 | | |
| 7 | 907.7 | 17 | 915.7 | 27 | 923.7 | | |
| 8 | 908.5 | 18 | 916.5 | 28 | 924.5 | | |
| 9 | 909.3 | 19 | 917.3 | 29 | 925.3 | | |
| 10 | 910.1 | 20 | 918.1 | 30 | 926.1 | | |

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.

The given UE is pre-scanned among below modes.

| CONDUCTED TEST | | | | |
|----------------|---------------------------|------------------------|------------|------------------|
| MODE | AVAILABLE FREQUENCY (MHz) | TESTED FREQUENCY (MHz) | MODULATION | DATA RATE (kbps) |
| FSK | 902 to 928 | 902.9,914.9,926.9 | FSK | 100 |

| TRANSMIT RADIATED EMISSION TEST | | | |
|---------------------------------|----------------------|----------------------|------------|
| MODE | FREQUENCY BAND (MHz) | TEST FREQUENCY (MHz) | MODULATION |
| FSK | 902-928 | 902.9,914.9,926.9 | 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.

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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 |
| Peak Power Density | +/- | 0.61 | dB |
| Temperature | +/- | 0.6 | °C |
| Humidity | +/- | 3 | % |
| DC / AC Power Source | +/- | 1 | % |

| Radiated Spurious Emission Measurement Uncertainty | | | |
|--|-----|------|---------------|
| Polarization: Vertical | +/- | 1.89 | dB |
| | +/- | 4.1 | dB |
| | +/- | 3.37 | dB |
| | +/- | 3.83 | dB |
| Polarization: Horizontal | +/- | 1.89 | dB |
| | +/- | 4.1 | dB |
| | +/- | 3.37 | dB |
| | +/- | 3.83 | dB |
| Radiated Spurious Emission | +/- | 2 | dB |
| | +/- | 1.59 | dB |
| | +/- | 1.71 | dB |
| | +/- | 1.64 | dB |
| | +/- | 3.84 | dB |
| | | | 33GHz-50GHz |
| | | | 50GHz-60GHz |
| | | | 60GHz-90GHz |
| | | | 90GHz-140GHz |
| | | | 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

| AC Power-Line Conducted Emission Test Site: Conduction C | | | | | |
|--|--------------------------------|---------------|------------------------|------------------------|-----------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| Coaxial Cable | EC Lab | RF-HY-CAB-250 | RF-HY-CAB-250-01 | 03/27/2025 | 03/26/2026 |
| EMI Test Receiver | Anritsu | N9038A | MY52260216 | 11/20/2024 | 11/19/2025 |
| LISN | SCHWARZBECK Mess-Elektronik | NSLK8127 | 974 | 06/26/2024 | 06/25/2025 |
| Pulse Limiter | EC Lab | VTSD 9561F-N | 485 | 03/27/2025 | 03/26/2026 |
| Test Software | audix | e3 | E3 20923 SGS Ver.9 (C) | N.C.R | N.C.R |

6.2 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 | 11/14/2024 | 11/13/2025 |
| Attenuator | Woken | WATT-218FS-10 | RF12 | 11/14/2024 | 11/13/2025 |
| DC Block | PASTERNACK | PE8210 | RF38 | 11/14/2024 | 11/13/2025 |
| DC Power Supply | Gwinsteck | SPS-3610 | GEV856769 | 08/14/2024 | 08/13/2025 |
| Power Meter | Anritsu | ML2496A | 2138005 | 09/25/2024 | 09/24/2025 |
| Power Sensor | Anritsu | MA2411B | 1911395 | 09/25/2024 | 09/24/2025 |
| Power Sensor | Anritsu | MA2411B | 1911396 | 09/25/2024 | 09/24/2025 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY63440390 | 02/13/2025 | 02/12/2026 |
| Test Software | SGS Taiwan | Radio Test Software | Ver.21 | N.C.R | N.C.R |

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6.3 Radiated Measurement

| Radiated Emission Test Site: SACC | | | | | |
|-----------------------------------|-------------------|--|--------------------------|------------------------|-----------------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. (mm/dd/yyyy) | CAL DUE. (mm/dd/yyyy) |
| 3m Site NSA | SGS | 966 chamber C | N/A | 03/02/2025 | 03/01/2026 |
| Active Loop Antenna | COM-POWER | AL-130R | 10160105 | 12/11/2024 | 12/10/2025 |
| Attenuator | Woken | WATT-218FS-10 | RF11 | 11/14/2024 | 11/13/2025 |
| Broadband Antenna | SCHWARZBECK | VULB 9168 | 9168-300 | 11/06/2024 | 11/05/2025 |
| Coaxial Cable | EMCI+Huber Suhner | RG 214/U+EMC104-SM-SM-6000+EMC105-SM-SM-12000+15 | W13.01+150813+2310002+15 | 11/14/2024 | 11/13/2025 |
| EMI Test Receiver | Anritsu | N9038A | MY52260216 | 11/20/2024 | 11/19/2025 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1187 | 02/05/2025 | 02/04/2026 |
| Lowpass Filter | Woken | EWT-56-0019 | RF163 | 11/14/2024 | 11/13/2025 |
| Notch Filter | Titan Microwave | T04N800100050S01 | RF212 | 11/14/2024 | 11/13/2025 |
| Pre-Amplifier | EMC Instruments | EMC118A45SE | 980789 | 11/14/2024 | 11/13/2025 |
| Pre-Amplifier | EMC Instruments | EMC330 | 980091 | 11/14/2024 | 11/13/2025 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY63440390 | 02/13/2025 | 02/12/2026 |
| Test Software | audix | e3 | E3 20923 SGS Ver.9 (C) | N.C.R | N.C.R |

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

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

| Frequency range MHz | Limits (dB μ V) | |
|------------------------|------------------------|----------|
| | 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 |

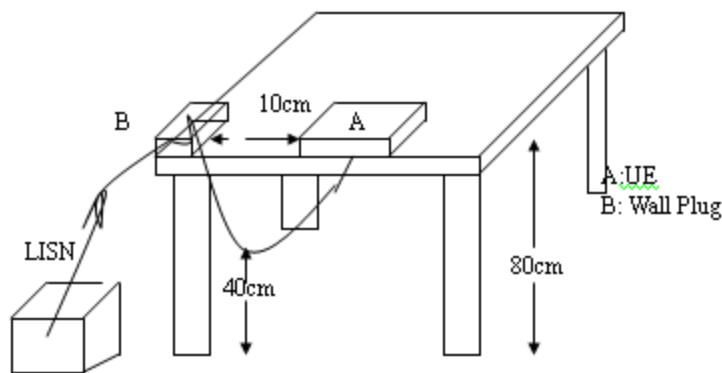
Note

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 Setup



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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 phases of power being supplied by given UE are completed

7.5 Measurement Result:

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

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

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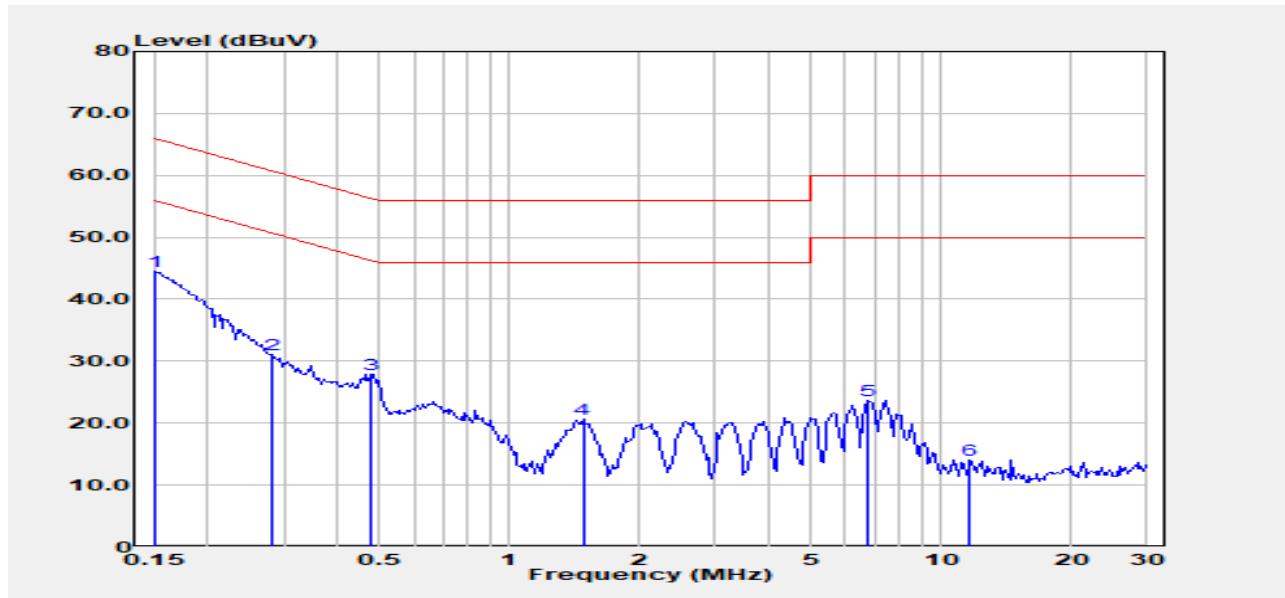
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number : TERF2504001287E2 Test Site : Conduction C
 Test Mode : FSK 100Kbps 249bytes Test Date : 2025-04-16
 Power : 120V/60Hz Temp./Humi. : 23.6°C/57%
 Probe : L1 Engineer : Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.150 | Peak | 33.95 | 10.65 | 44.60 | 66.00 | -21.40 |
| 0.280 | Peak | 20.52 | 10.64 | 31.15 | 60.81 | -29.65 |
| 0.476 | Peak | 17.26 | 10.62 | 27.88 | 56.41 | -28.53 |
| 1.480 | Peak | 9.82 | 10.74 | 20.56 | 56.00 | -35.44 |
| 6.805 | Peak | 12.78 | 10.96 | 23.74 | 60.00 | -36.26 |
| 11.683 | Peak | 3.05 | 11.00 | 14.06 | 60.00 | -45.94 |

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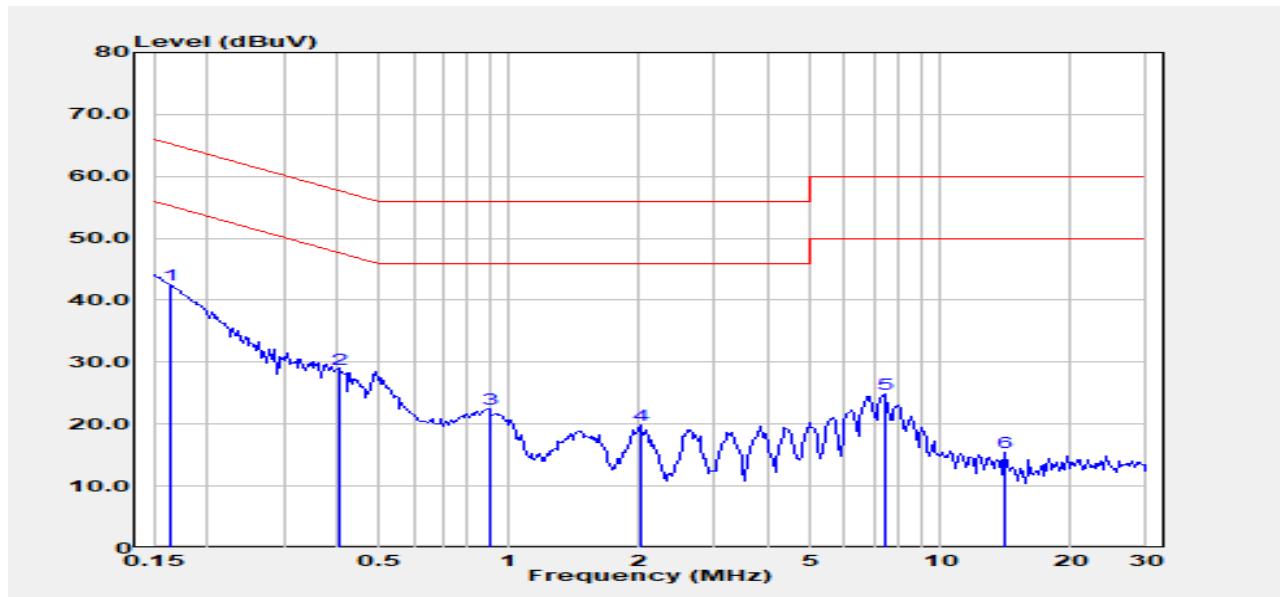
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Report Number : TERF2504001287E2 Test Site : Conduction C
 Test Mode : FSK 100Kbps 249bytes Test Date : 2025-04-16
 Power : 120V/60Hz Temp./Humi. : 23.6°C/57%
 Probe : N Engineer : Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|--|--------------|----------------------------|---------------------|--------------|
| 0.163 | Peak | 31.84 | 10.66 | 42.50 | 65.30 | -22.80 |
| 0.406 | Peak | 18.21 | 10.61 | 28.82 | 57.73 | -28.91 |
| 0.899 | Peak | 11.79 | 10.66 | 22.45 | 56.00 | -33.55 |
| 2.012 | Peak | 9.14 | 10.75 | 19.90 | 56.00 | -36.10 |
| 7.407 | Peak | 13.87 | 10.94 | 24.81 | 60.00 | -35.19 |
| 14.138 | Peak | 4.34 | 11.05 | 15.39 | 60.00 | -44.61 |

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

8.1.1 FCC

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

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

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.

8.1.2 ISED

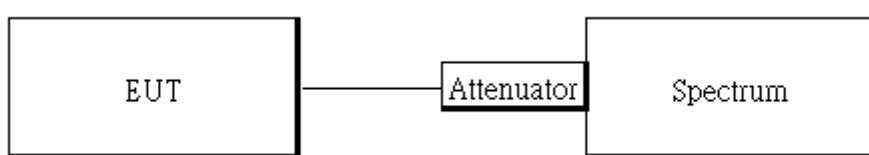
For systems using digital modulation in the 902-928 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

Note:

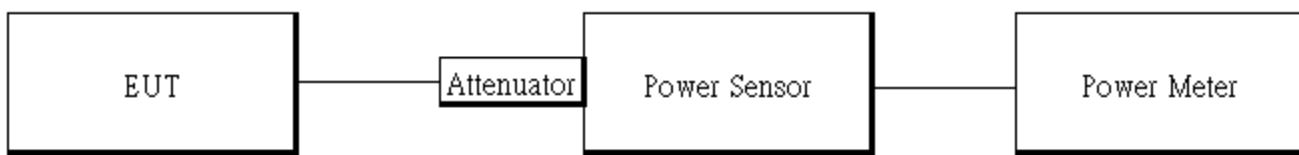
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



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8.3 Measurement Procedure:

8.3.1 Duty Cycle

1. Place the EUT on the table and set it in transmitting mode.
2. Set span = Zero
3. RBW = 8MHz, VBW = 8MHz,
4. Detector = Peak

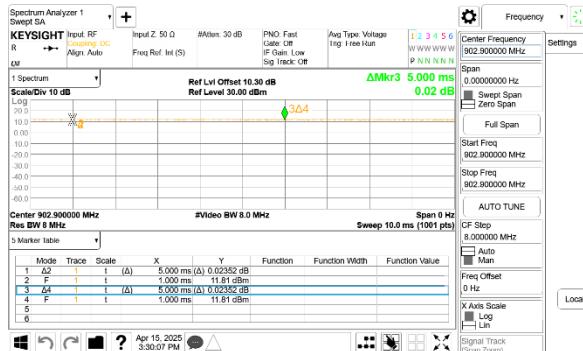
8.4 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

8.5 Duty Factor:

| Mode | Duty Cycle (%) = Ton / (Ton+Toff) | Duty Factor (dB) =10*log (1/Duty Cycle) | 1/T (kHz) | VBW setting (kHz) |
|----------------------|--------------------------------------|---|-----------|----------------------|
| FSK 100Kbps 249bytes | 100.00 | 0.00 | 0.00 | 0.01 |

FSK 100Kbps 249bytes_LowCH-902.9MHz



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8.6 Output Power:

8.6.1 Peak & Avg

FSK 100Kbps 249bytes

| CH | Frequency (MHz) | Power set | Peak Output Power (dBm) | Required Limit (dBm) |
|------|-----------------|-----------|-------------------------|----------------------|
| Low | 902.9 | 16 | 13.34 | 30 |
| Mid | 914.9 | 16 | 13.22 | 30 |
| High | 926.9 | 16 | 13.16 | 30 |
| CH | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Required Limit (dBm) |
| Low | 902.9 | 16 | 13.32 | 30 |
| Mid | 914.9 | 16 | 13.17 | 30 |
| High | 926.9 | 16 | 13.12 | 30 |

***Note:**

1. **Measured by power meter, cable loss 10.3 dB + Duty cycle factor has been offset to the power meter for Avg. power and cable loss has been offset for Peak power measurement.**
2. **The antenna gain is grater than 6 dBi, therefore the power limit attenuation has been applied in the test results. 30-(antenna gain-6)=30**

8.6.2 EIRP

IC

EIRP FSK 100Kbps 249bytes

| CH | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit |
|------|-----------------|-----------|-------------------------|--------------------|------------|------------|
| Low | 902.9 | 16 | 13.32 | -3.80 | 9.52 | 4W= 36 dBm |
| Mid | 914.9 | 16 | 13.17 | -3.80 | 9.37 | 4W= 36 dBm |
| High | 926.9 | 16 | 13.12 | -3.80 | 9.32 | 4W= 36 dBm |

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

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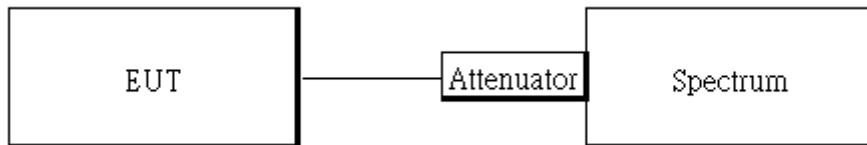
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 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.

9.3.1 6dB BW measurements

1. The testing follows the Measurement Procedure of the KDB 558074 D01.
2. Set the spectrum analyzer as
 - RBW= 100 kHz ,
 - VBW = 3 X RBW,
 - Span= 2 to 5 times of the OBW,
 - Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of -6dB.
4. Repeat above procedures until all test default channel is completed.

9.3.2 99% BW measurements

1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
2. Set the spectrum analyzer as
 - RBW= 1 % to 5% of 99%,
 - VBW \geq 3 X RBW,
 - Span= large enough to capture all products of the modulation process
 - Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of 99%.
4. Repeat above procedures until all test default channel is completed.

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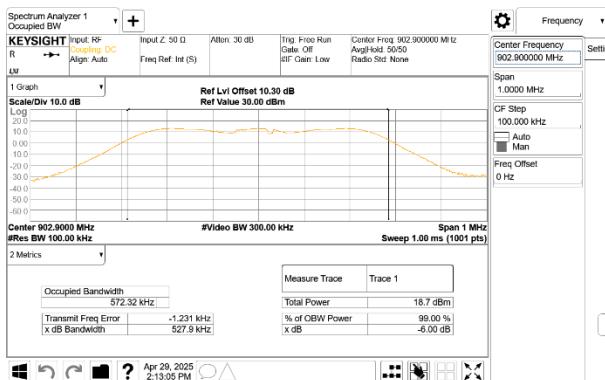
9.4 Measurement Result:

9.4.1 6dB BW measurements

FSK 100Kbps 249bytes

| Frequency (MHz) | 6dB BW (MHz) | Required BW (MHz) | Result |
|-----------------|--------------|-------------------|--------|
| 902.9 | 0.5279 | ≥ 0.5 | PASS |
| 914.9 | 0.5277 | ≥ 0.5 | PASS |
| 926.9 | 0.5264 | ≥ 0.5 | PASS |

OBW_FSK 100Kbps 249bytes_LowCH-902.9MHz



OBW_FSK 100Kbps 249bytes_HighCH-926.9MHz



OBW_FSK 100Kbps 249bytes_MidCH-914.9MHz



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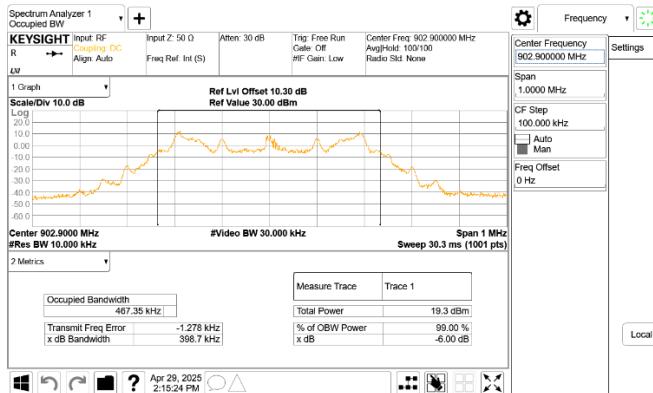
9.4.2

99% Bandwidth

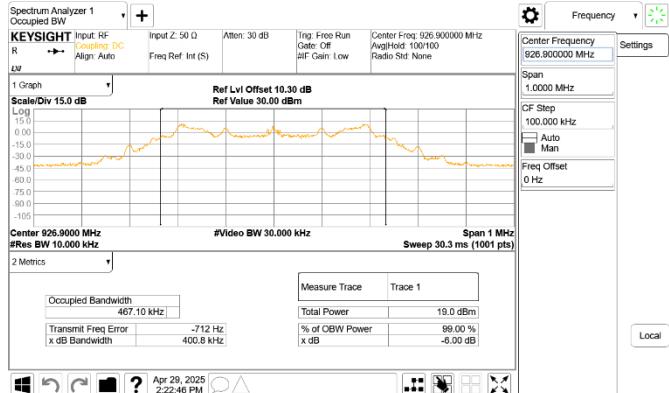
FSK 100Kbps 249bytes

| Frequency (MHz) | 99%Bandwidth (MHz) |
|-----------------|--------------------|
| 902.9 | 0.46571 |
| 914.9 | 0.47779 |
| 926.9 | 0.46116 |

IC OBW_FSK 100Kbps 249bytes _LowCH-902.9MHz



IC OBW_FSK 100Kbps 249bytes _HighCH-926.9MHz



IC OBW_FSK 100Kbps 249bytes _MidCH-914.9MHz



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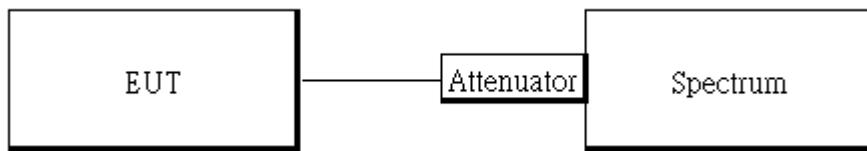
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 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) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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10.3.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
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 start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Set DL as the limit =
OFDM 4M & 8M reading on marker of reference level measurement – 20dBm
7. Mark the highest readings of the emissions outside of 902-928 MHz.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

10.3.3 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
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.

10.4 Measurement Result

FSK 100Kbps 249bytes

| Frequency (MHz) | RF Power Density (dBm) | Reference Level of Limit = PSD - 20dB (dBm) |
|-----------------|------------------------|---|
| 902.9 | 13.06 | -6.94 |
| 914.9 | 12.92 | -7.08 |
| 926.9 | 12.80 | -7.20 |

*Note:

1. cable loss as 10.3dB that offsets in the spectrum
2. Refer to next page for plots.

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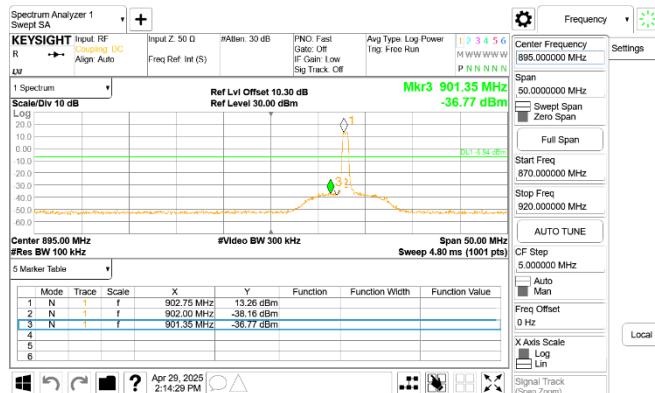
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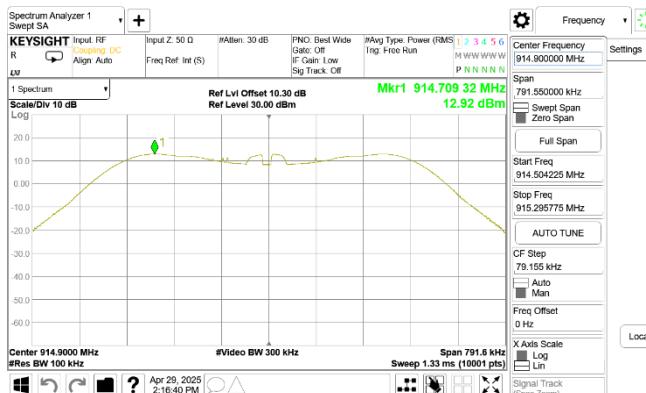
Reference Level_FSK 100Kbps 249bytes_LowCH-902.9MHz



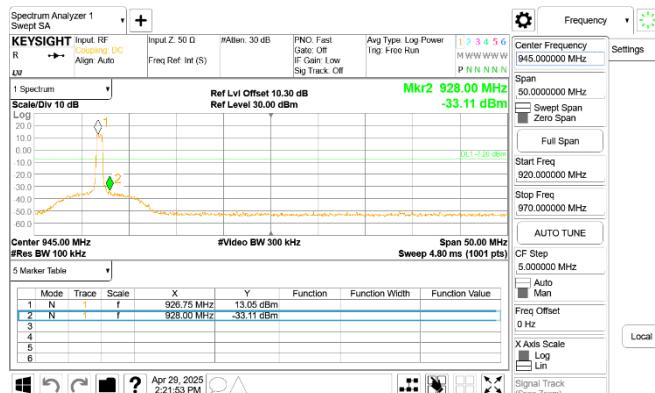
Band Edge_FSK 100Kbps 249bytes_LowCH-902.9MHz



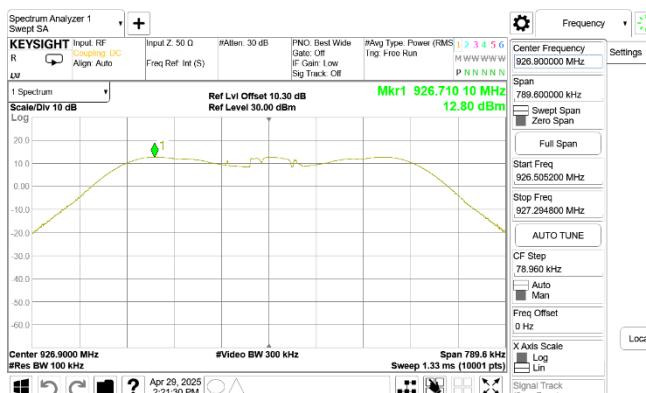
Reference Level_FSK 100Kbps 249bytes_MidCH-914.9MHz



Band Edge_FSK 100Kbps 249bytes_HighCH-914.9MHz



Reference Level_FSK 100Kbps 249bytes_HighCH-926.9MHz



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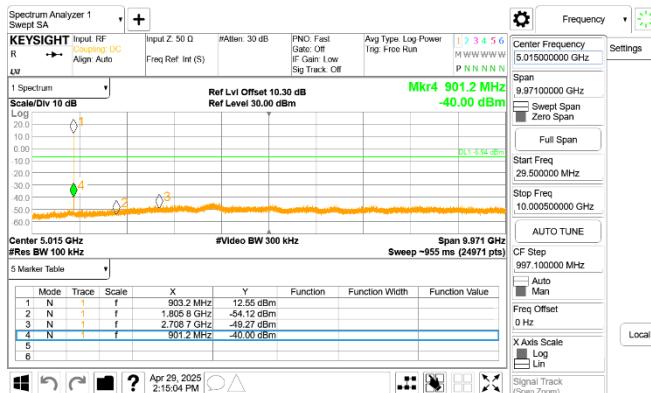
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Spurious_Emission_FSK 100Kbps 249bytes_LowCH-902.9MHz



Spurious_Emission_FSK 100Kbps 249bytes_MidCH-914.9MHz



Spurious_Emission_FSK 100Kbps 249bytes_HighCH-926.9MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, 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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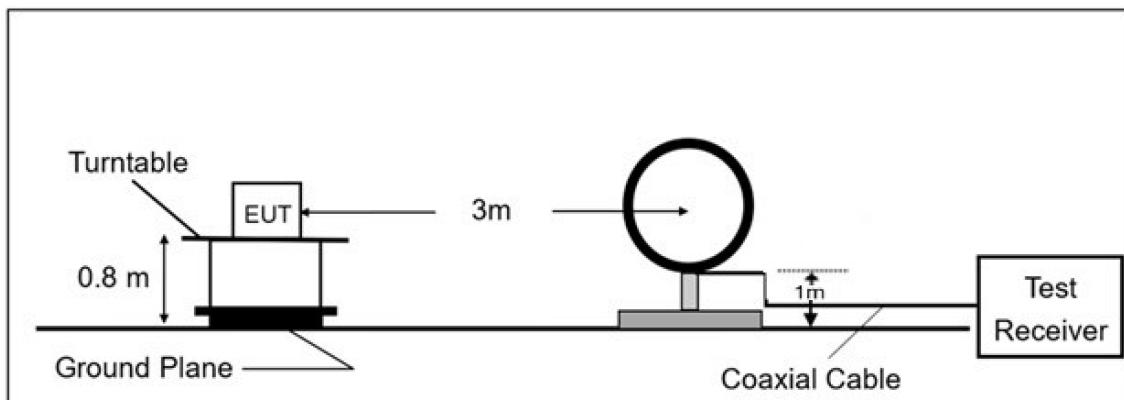
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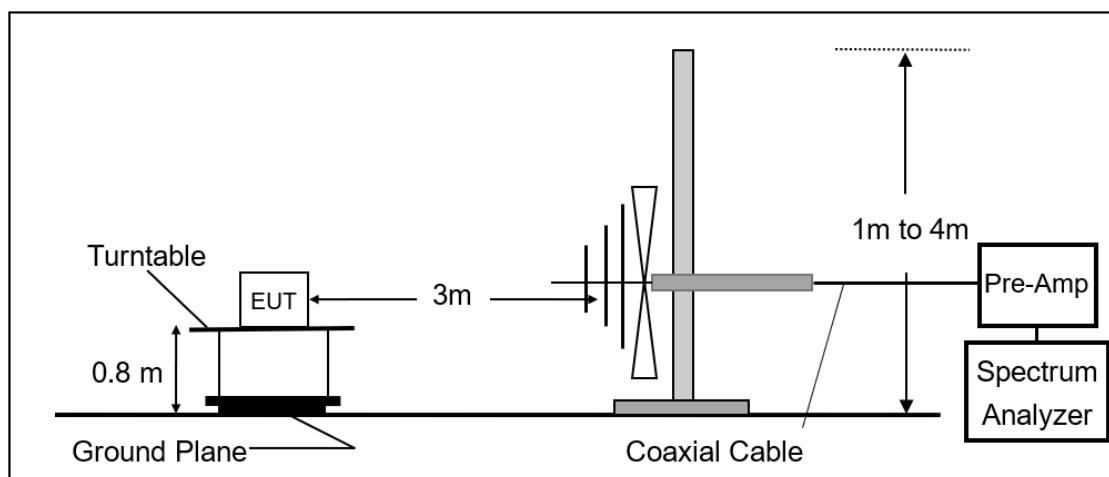
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11.2 Test Setup

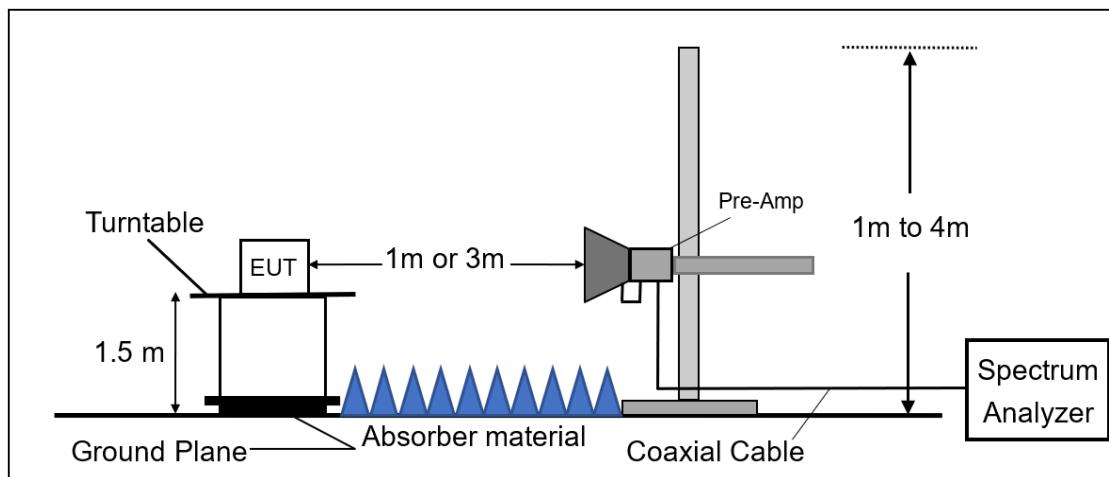
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
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
6. (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
9. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
10. 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.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
13. Repeat above procedures until all default test channel measured were complete.

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11.4 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:

$$\mathbf{FS = RA + AF + CL - AG}$$

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 $dB\mu V/m$, which converts $20 * \log(uV/m)$

Actual $FS(dB\mu V/m)$ = SPA. Reading level($dB\mu V$) + Factor(dB)

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

11.5 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.

11.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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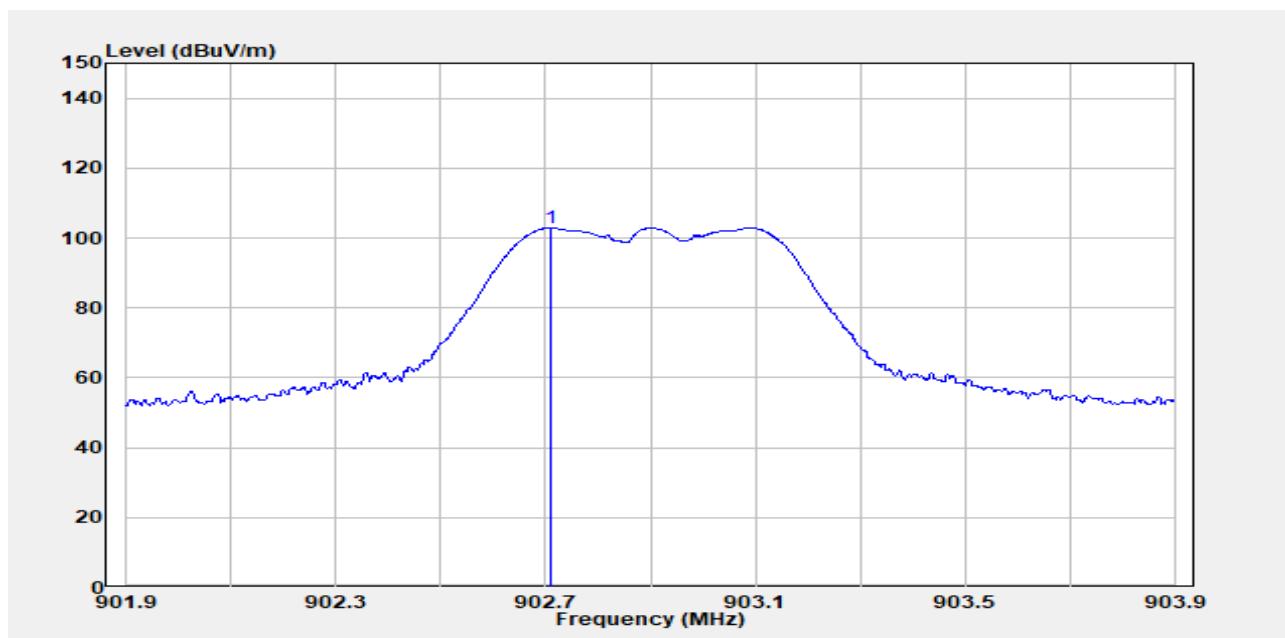
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11.6.1 Radiated Main and Band Edge Measurement Result**Main**

| | | | |
|----------------|-----------------------|--------------|-------------|
| Report Number | :TERF2504001287E2 | Test Site | :SAC C |
| Operation Mode | :FSK 100Kbps 249bytes | Test Date | :2025-04-16 |
| Test Frequency | :902.9 MHz | Temp./Humi. | :23.1°C/56% |
| Test Mode | :Main | Antenna Pol. | :Vertical |
| EUT Pol | :E2 Plane | Engineer | :Alex Li |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 902.71 | Peak | 102.44 | 0.37 | 102.81 | - | - |

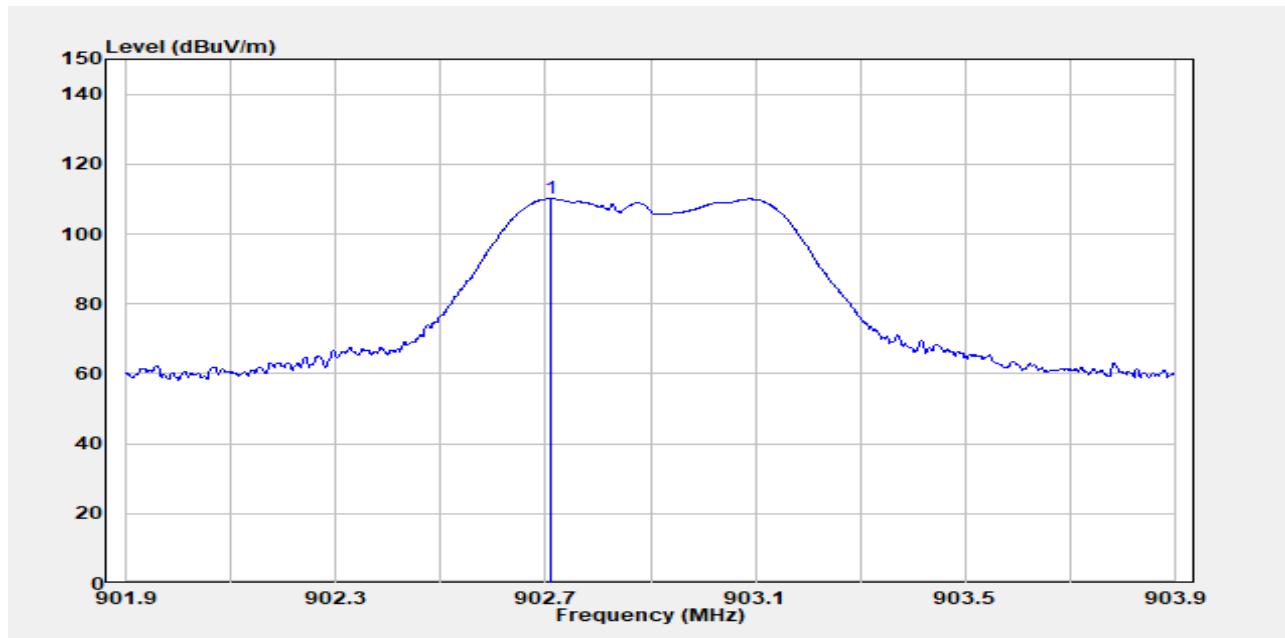
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Report Number :TERF2504001287E2
 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :902.9 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-16
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 902.71 | Peak | 109.65 | 0.37 | 110.02 | - | - |

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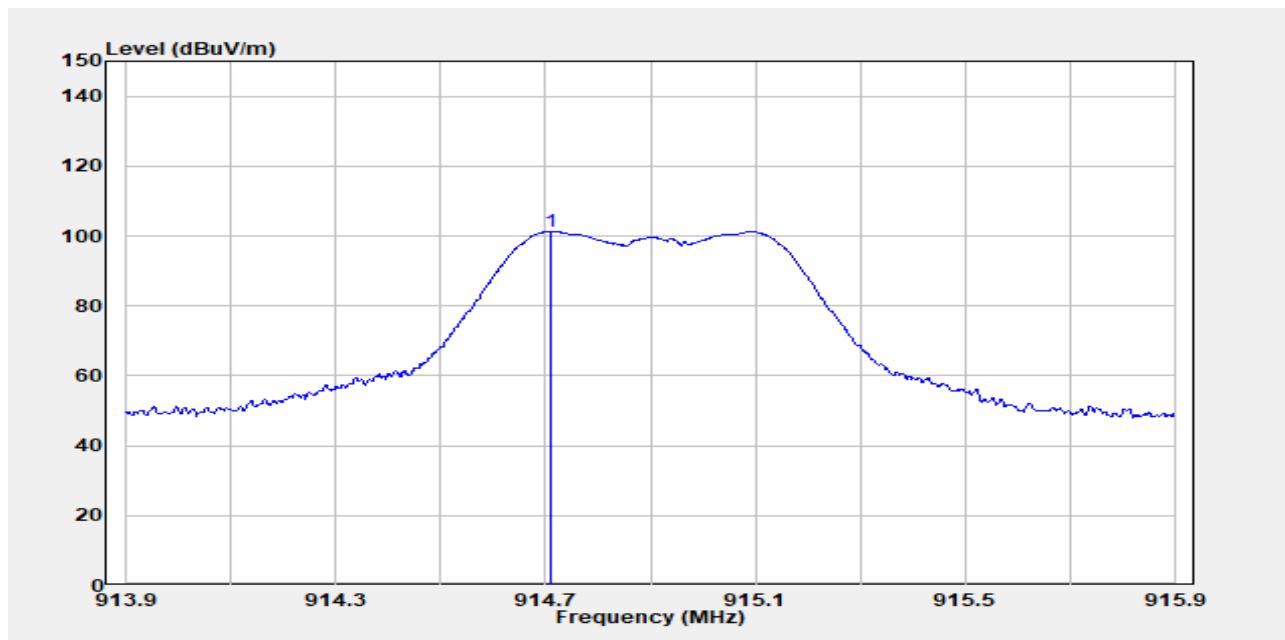
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Report Number :TERF2504001287E2
 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :914.9 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-16
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 914.71 | Peak | 100.48 | 0.84 | 101.32 | - | - |

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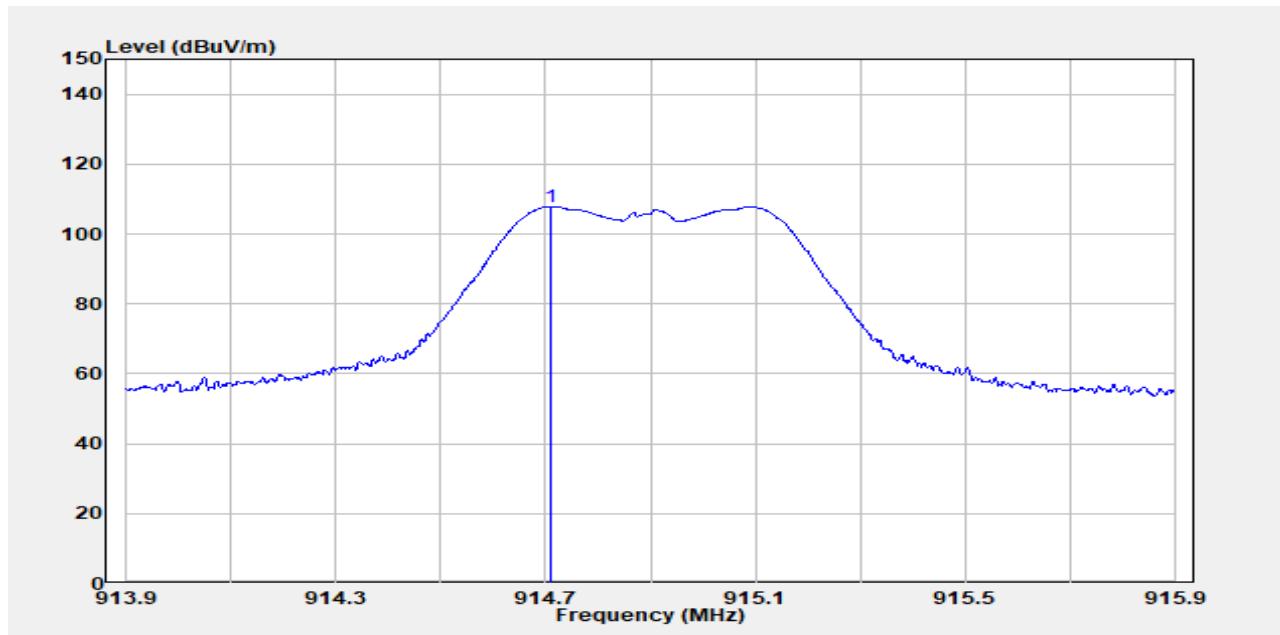
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Report Number :TERF2504001287E2
 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :914.9 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-16
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 914.71 | Peak | 106.95 | 0.84 | 107.79 | - | - |

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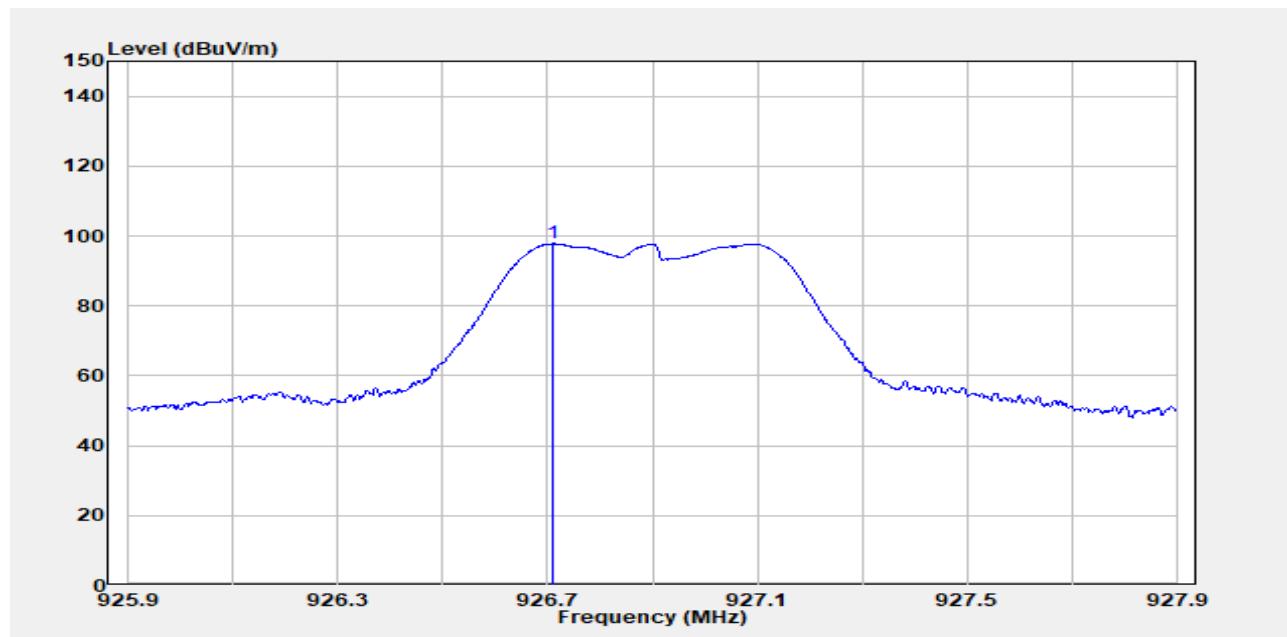
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Report Number :TERF2504001287E2
 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :926.9 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-16
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 926.71 | Peak | 96.50 | 1.27 | 97.77 | - | - |

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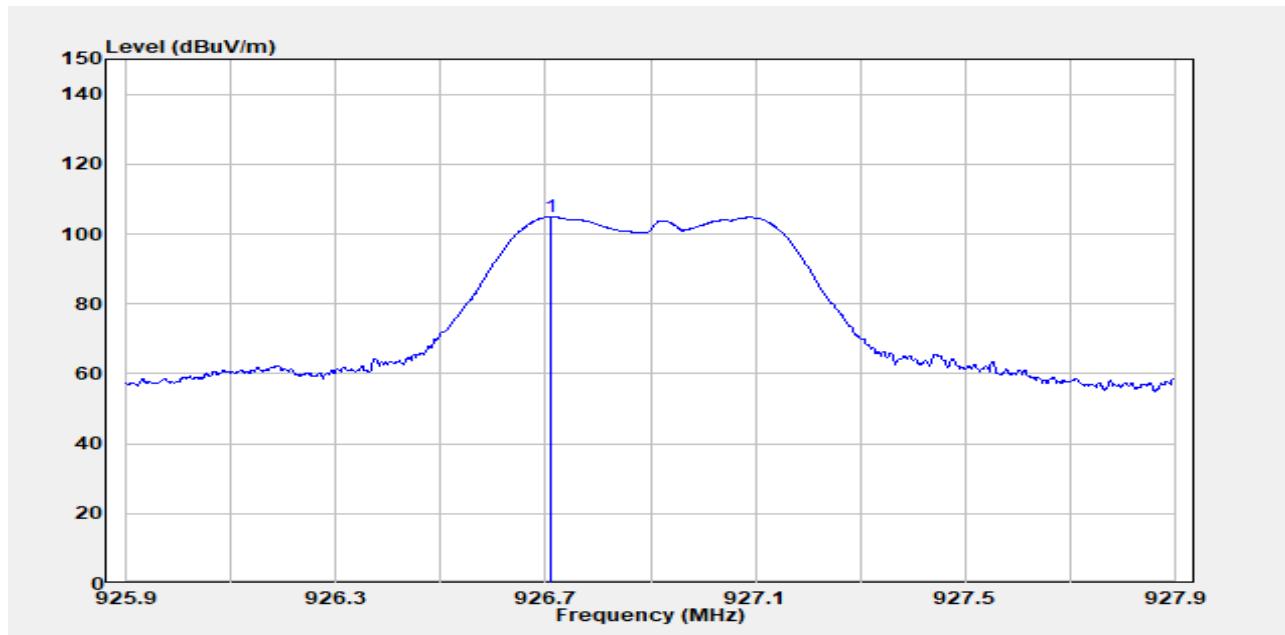
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Report Number :TERF2504001287E2
 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :926.9 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-16
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 926.71 | Peak | 103.56 | 1.27 | 104.82 | - | - |

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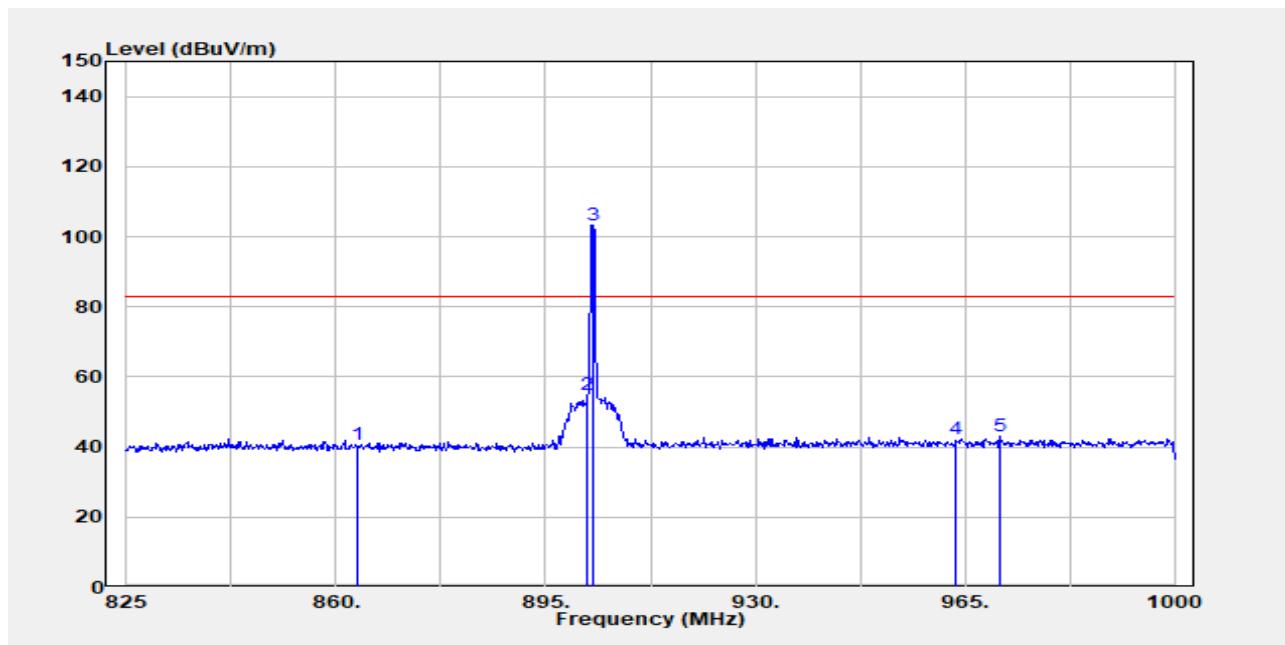
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Bandedge

| | | | |
|----------------|-----------------------|--------------|-------------|
| Report Number | :TERF2504001287E2 | Test Site | :SAC C |
| Operation Mode | :FSK 100Kbps 249bytes | Test Date | :2025-04-16 |
| Test Frequency | :902.9 MHz | Temp./Humi. | :23.1°C/56% |
| Test Mode | :Bandedge | Antenna Pol. | :Vertical |
| EUT Pol | :E2 Plane | Engineer | :Alex Li |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|--|--------------|------------------------------|------------------------------|--------------|
| 863.50 | Peak | 40.33 | 0.41 | 40.74 | 82.81 | -42.07 |
| 902.00 | Peak | 54.40 | 0.36 | 54.76 | 82.81 | -28.05 |
| 902.90 | Peak | 102.71 | 0.38 | 103.09 | - | - |
| 963.43 | Peak | 40.53 | 1.55 | 42.08 | 82.81 | -40.73 |
| 970.95 | Peak | 41.48 | 1.71 | 43.19 | 82.81 | -39.62 |

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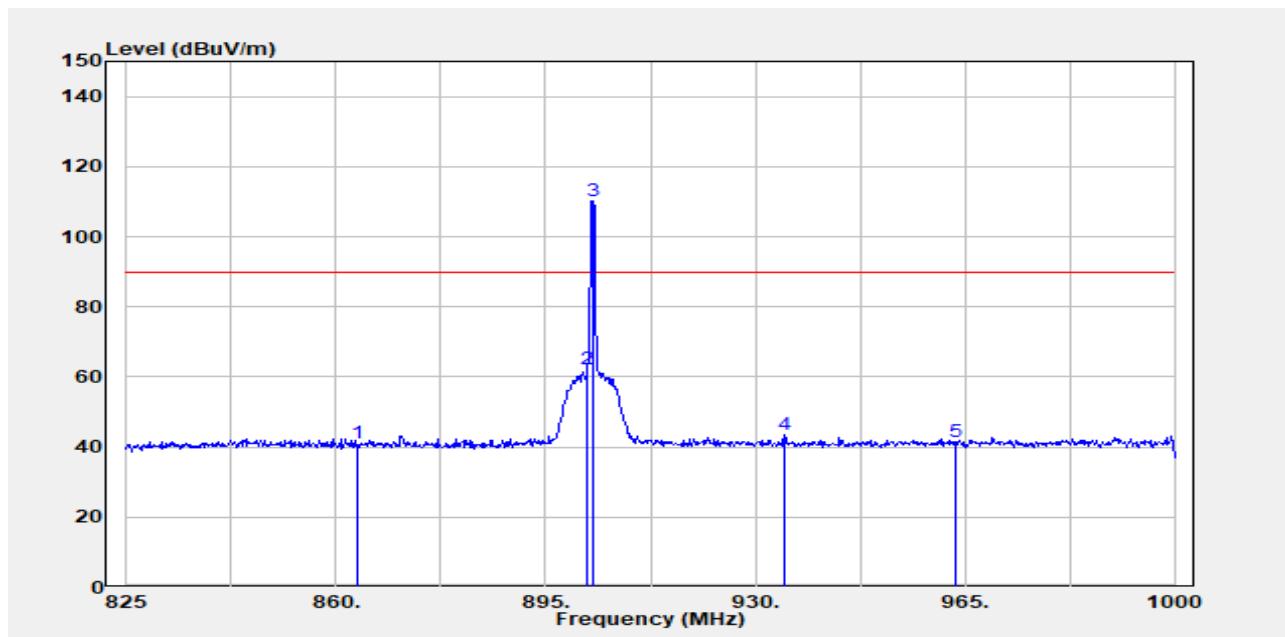
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Report Number :TERF2504001287E2 Test Site :SAC C
 Operation Mode :FSK 100Kbps 249bytes Test Date :2025-04-16
 Test Frequency :902.9 MHz Temp./Humi. :23.1°C/56%
 Test Mode :Bandedge Antenna Pol. :Horizontal
 EUT Pol :E2 Plane Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 863.50 | Peak | 40.79 | 0.41 | 41.20 | 90.02 | -48.82 |
| 902.00 | Peak | 61.83 | 0.36 | 62.19 | 90.02 | -27.83 |
| 902.90 | Peak | 109.87 | 0.38 | 110.25 | - | - |
| 934.73 | Peak | 42.16 | 1.37 | 43.53 | 90.02 | -46.49 |
| 963.43 | Peak | 40.04 | 1.55 | 41.59 | 90.02 | -48.43 |

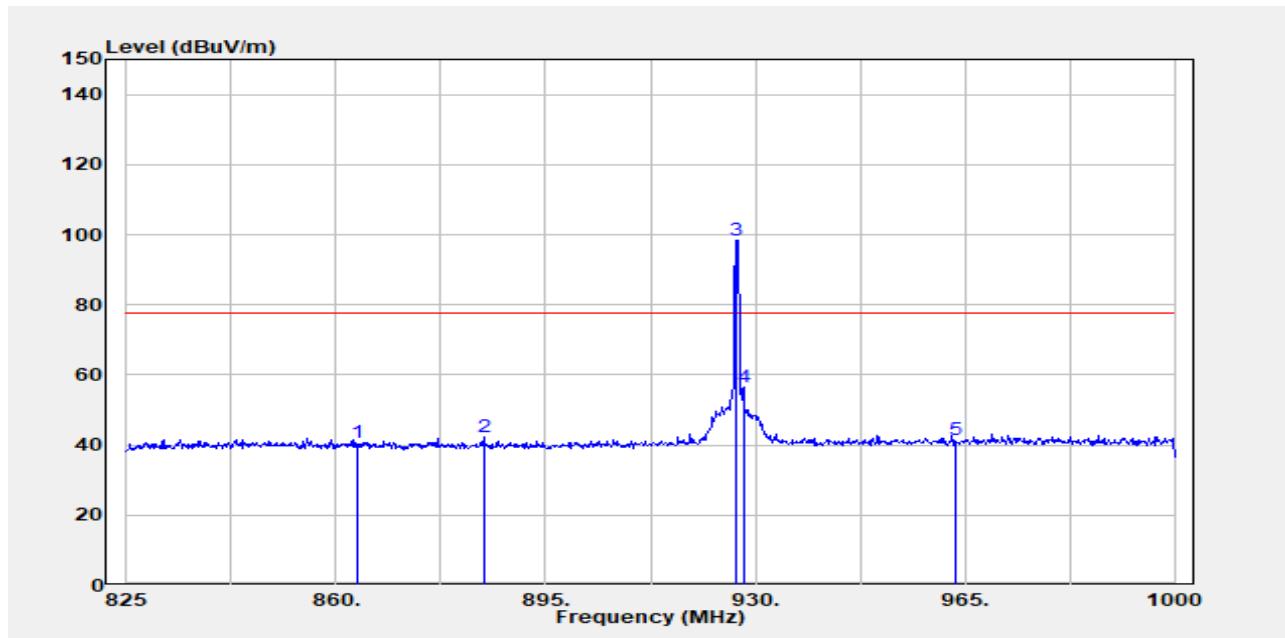
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Report Number :TERF2504001287E2 Test Site :SAC C
 Operation Mode :FSK 100Kbps 249bytes Test Date :2025-04-16
 Test Frequency :926.9 MHz Temp./Humi. :23.1°C/56%
 Test Mode :Bandedge Antenna Pol. :Vertical
 EUT Pol :E2 Plane Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 863.500 | Peak | 40.09 | 0.41 | 40.51 | 77.77 | -37.26 |
| 884.675 | Peak | 41.96 | 0.17 | 42.13 | 77.77 | -35.64 |
| 926.900 | Peak | 97.11 | 1.27 | 98.38 | - | - |
| 928.075 | Peak | 55.06 | 1.27 | 56.33 | 77.77 | -21.44 |
| 963.425 | Peak | 40.01 | 1.55 | 41.56 | 77.77 | -36.21 |

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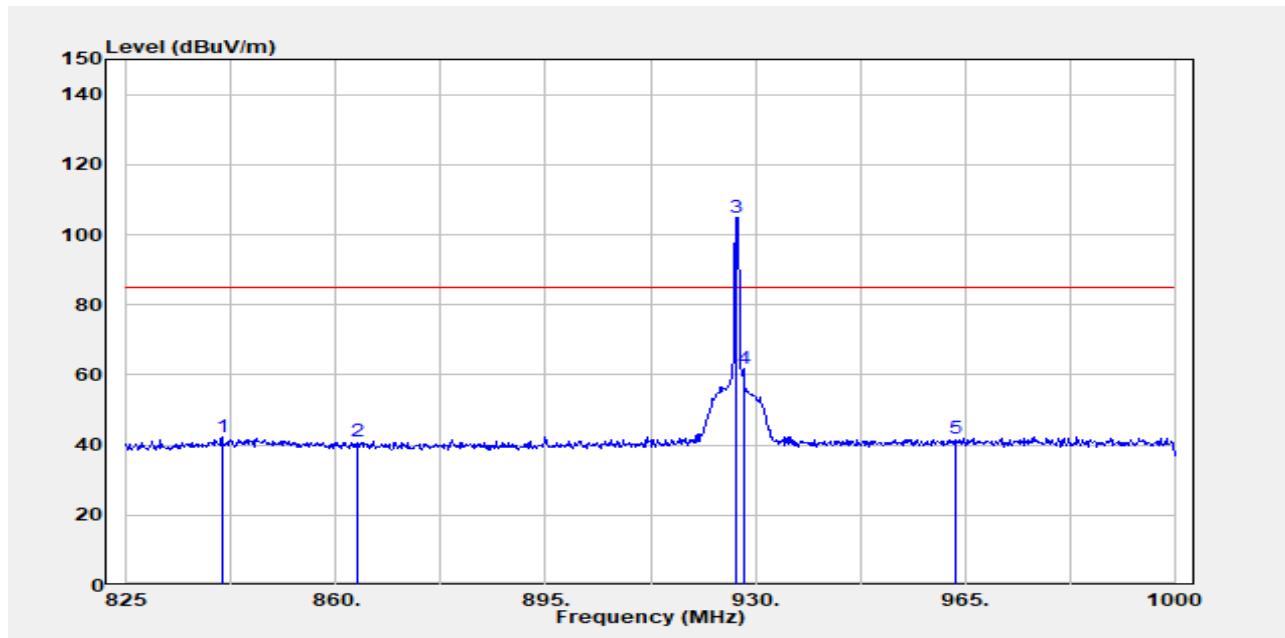
t (886-2) 2299-3279

f (886-2) 2298-0488

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Report Number :TERF2504001287E2 Test Site :SAC C
 Operation Mode :FSK 100Kbps 249bytes Test Date :2025-04-16
 Test Frequency :926.9 MHz Temp./Humi. :23.1°C/56%
 Test Mode :Bandedge Antenna Pol. :Horizontal
 EUT Pol :E2 Plane Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 840.93 | Peak | 42.01 | 0.09 | 42.10 | 84.82 | -42.72 |
| 863.50 | Peak | 40.62 | 0.41 | 41.03 | 84.82 | -43.79 |
| 926.90 | Peak | 103.75 | 1.27 | 105.02 | - | - |
| 928.08 | Peak | 60.56 | 1.26 | 61.82 | 84.82 | -23.00 |
| 963.43 | Peak | 40.13 | 1.55 | 41.68 | 84.82 | -43.14 |

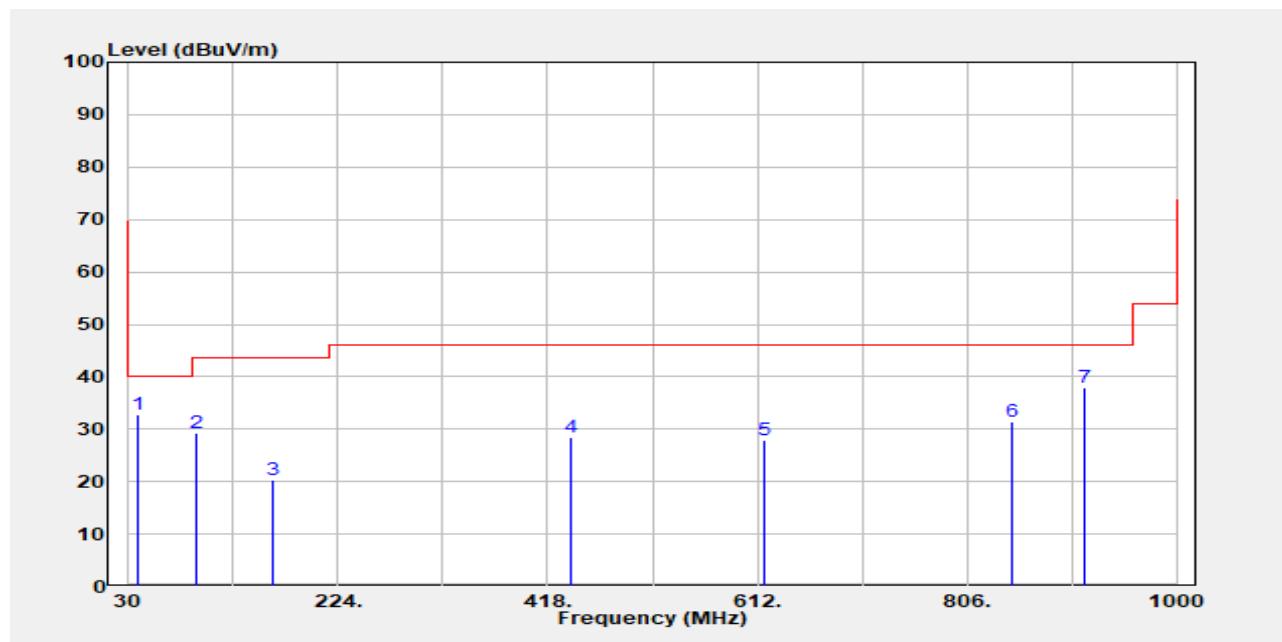
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11.6.2 Radiated Spurious Emission

| | | | |
|----------------|-----------------------|--------------|-------------|
| Report Number | :TERF2504001287E2 | Test Site | :SAC C |
| Operation Mode | :FSK 100Kbps 249bytes | Test Date | :2025-04-17 |
| Test Frequency | :914.9 MHz | Temp./Humi. | :23.1°C/56% |
| Test Mode | :Tx | Antenna Pol. | :Vertical |
| EUT Pol | :E2 Plane | Engineer | :Alex Li |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 37.760 | Peak | 45.17 | -12.36 | 32.81 | 40.00 | -7.19 |
| 92.080 | Peak | 47.31 | -18.02 | 29.29 | 43.50 | -14.21 |
| 162.890 | Peak | 32.16 | -11.93 | 20.23 | 43.50 | -23.27 |
| 439.340 | Peak | 35.47 | -6.99 | 28.48 | 46.00 | -17.52 |
| 618.790 | Peak | 31.09 | -3.09 | 28.00 | 46.00 | -18.00 |
| 848.680 | Peak | 31.23 | 0.25 | 31.48 | 46.00 | -14.52 |
| 914.900 | Peak | 37.16 | 0.85 | 38.00 | 46.00 | -8.00 |

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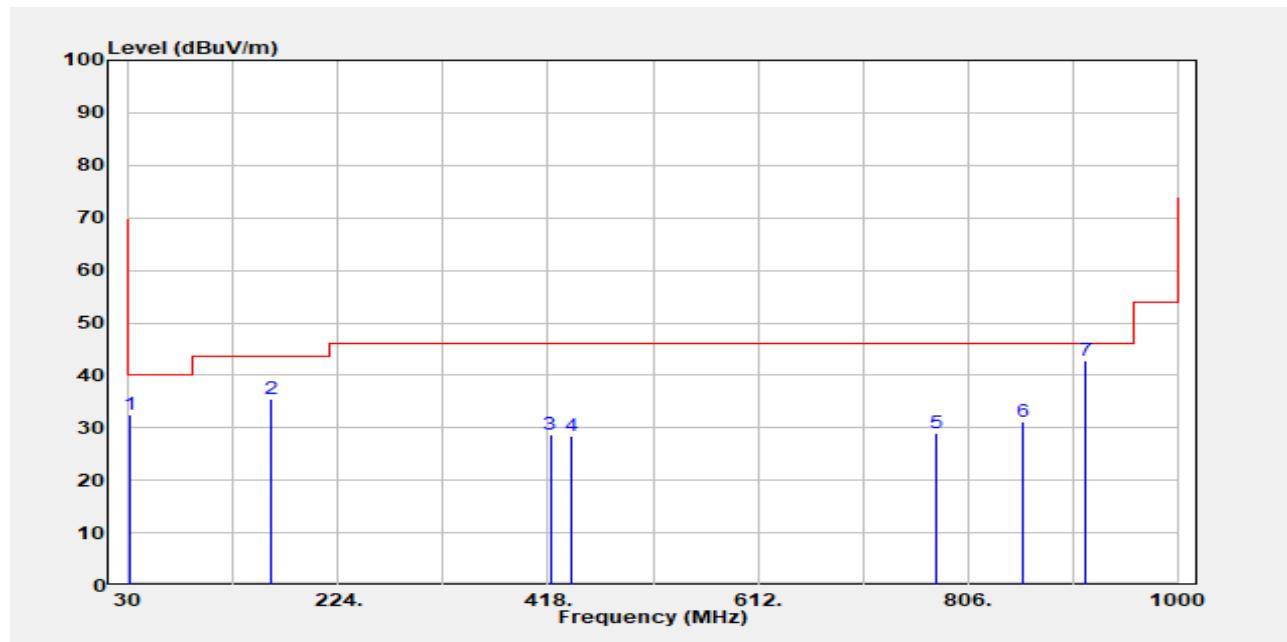
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Report Number :TERF2504001287E2
 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :914.9 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-17
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 31.940 | Peak | 45.69 | -13.18 | 32.51 | 40.00 | -7.49 |
| 160.950 | Peak | 47.32 | -11.93 | 35.39 | 43.50 | -8.11 |
| 419.940 | Peak | 36.30 | -7.64 | 28.66 | 46.00 | -17.34 |
| 440.310 | Peak | 35.52 | -6.97 | 28.55 | 46.00 | -17.45 |
| 776.900 | Peak | 29.62 | -0.66 | 28.96 | 46.00 | -17.04 |
| 857.410 | Peak | 30.75 | 0.37 | 31.11 | 46.00 | -14.89 |
| 914.900 | Peak | 41.96 | 0.85 | 42.81 | 46.00 | -3.19 |

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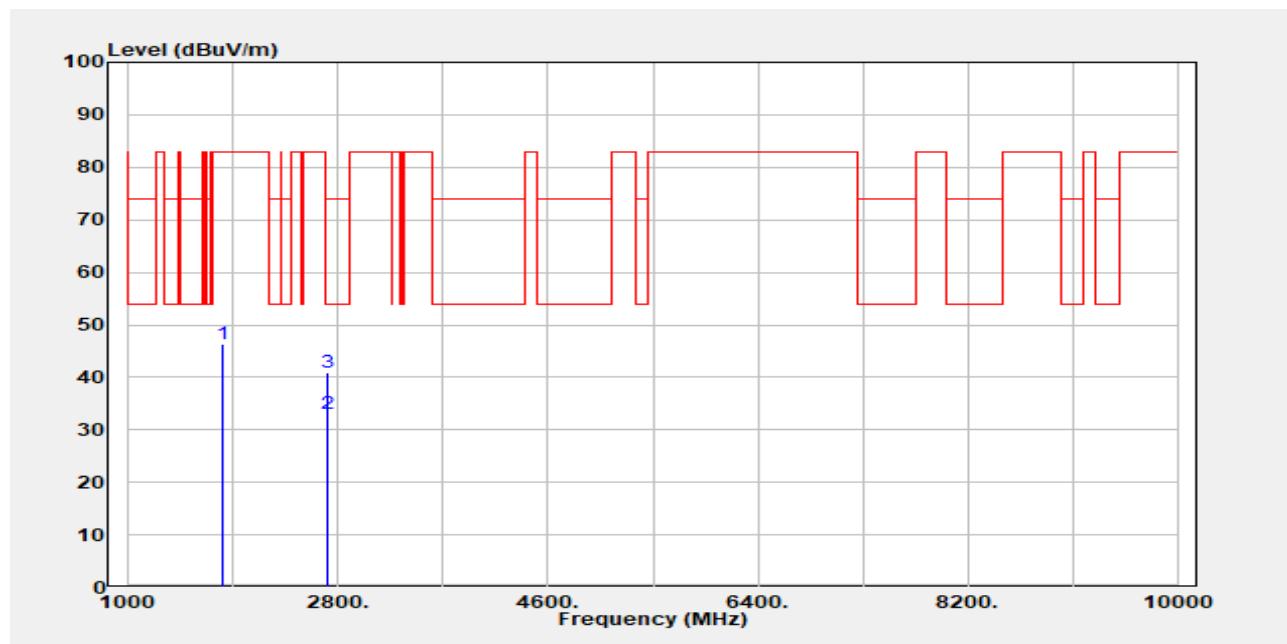
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Report Number :TERF2504001287E2
 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :902.9 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-18
 Temp./Humi. :23.2°C/51%
 Antenna Pol. :Vertical
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 1805.800 | Peak | 52.79 | -6.35 | 46.44 | 82.81 | -36.37 |
| 2708.700 | Average | 36.92 | -3.73 | 33.19 | 54.00 | -20.81 |
| 2708.700 | Peak | 44.56 | -3.73 | 40.83 | 74.00 | -33.17 |

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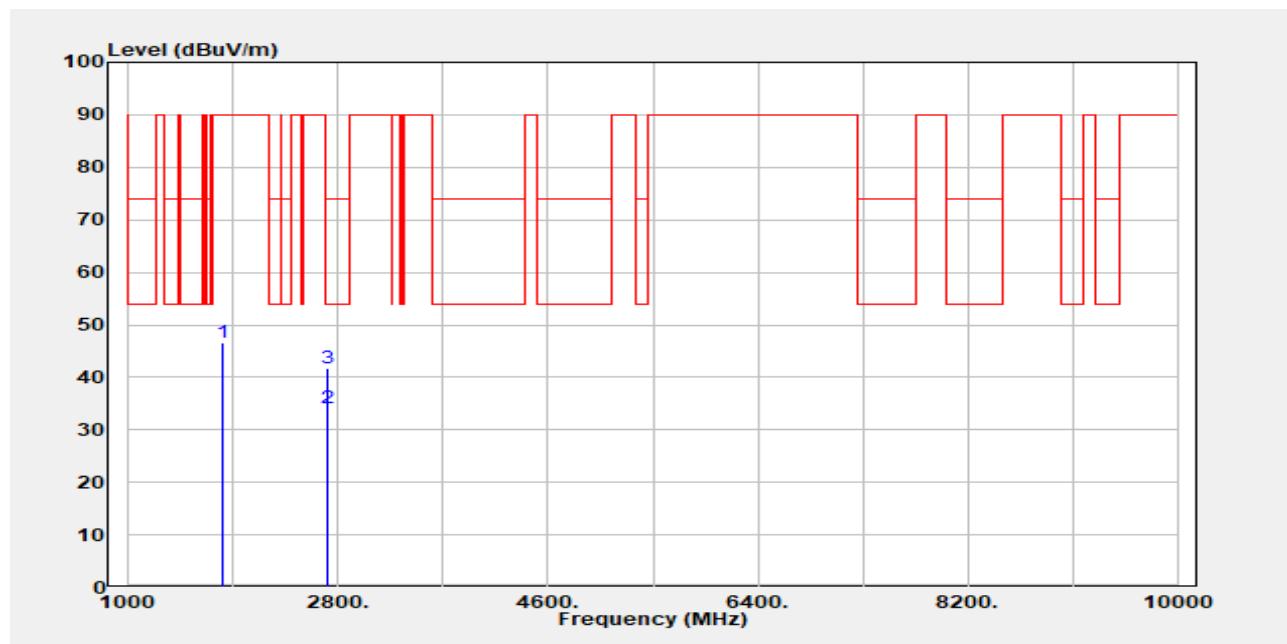
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 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :902.9 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-18
 Temp./Humi. :23.2°C/51%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 1805.800 | Peak | 52.99 | -6.35 | 46.64 | 90.02 | -43.38 |
| 2708.700 | Average | 37.99 | -3.73 | 34.26 | 54.00 | -19.74 |
| 2708.700 | Peak | 45.57 | -3.73 | 41.84 | 74.00 | -32.16 |

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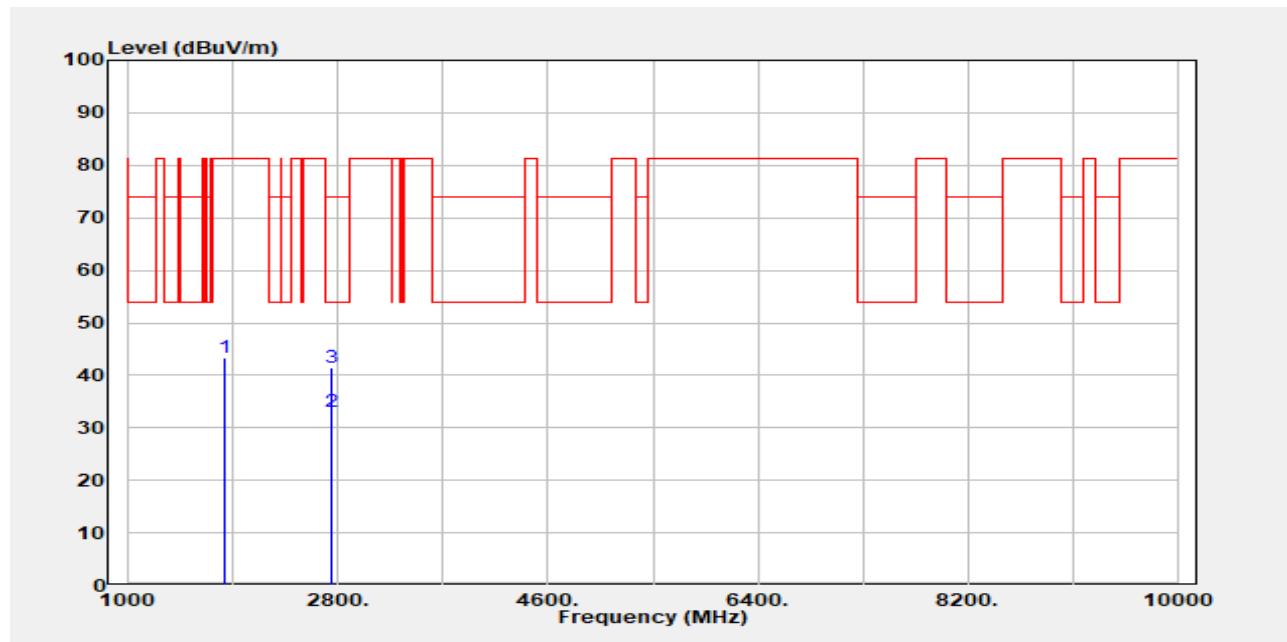
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 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-18
 Temp./Humi. :23.2°C/51%
 Antenna Pol. :Vertical
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 1829.800 | Peak | 49.71 | -6.36 | 43.35 | 81.32 | -37.97 |
| 2744.700 | Average | 36.52 | -3.48 | 33.04 | 54.00 | -20.96 |
| 2744.700 | Peak | 44.89 | -3.48 | 41.41 | 74.00 | -32.59 |

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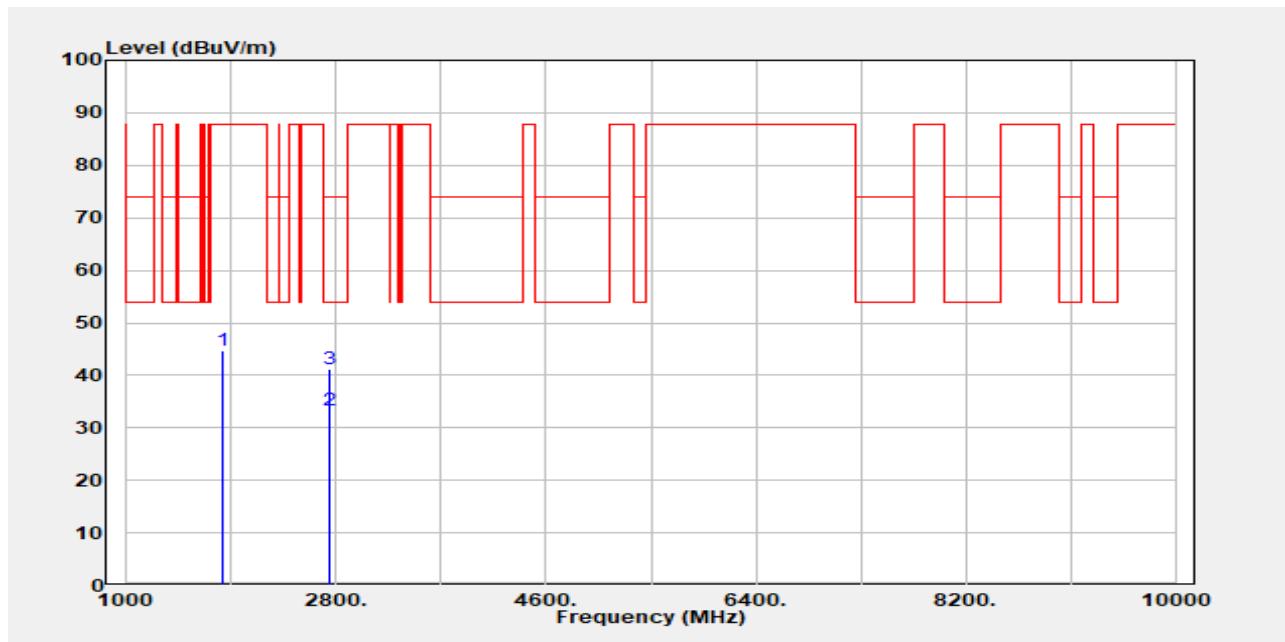
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 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :914.9 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-18
 Temp./Humi. :23.2°C/51%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 1829.800 | Peak | 51.14 | -6.36 | 44.78 | 87.79 | -43.01 |
| 2744.700 | Average | 36.71 | -3.48 | 33.23 | 54.00 | -20.77 |
| 2744.700 | Peak | 44.65 | -3.48 | 41.17 | 74.00 | -32.83 |

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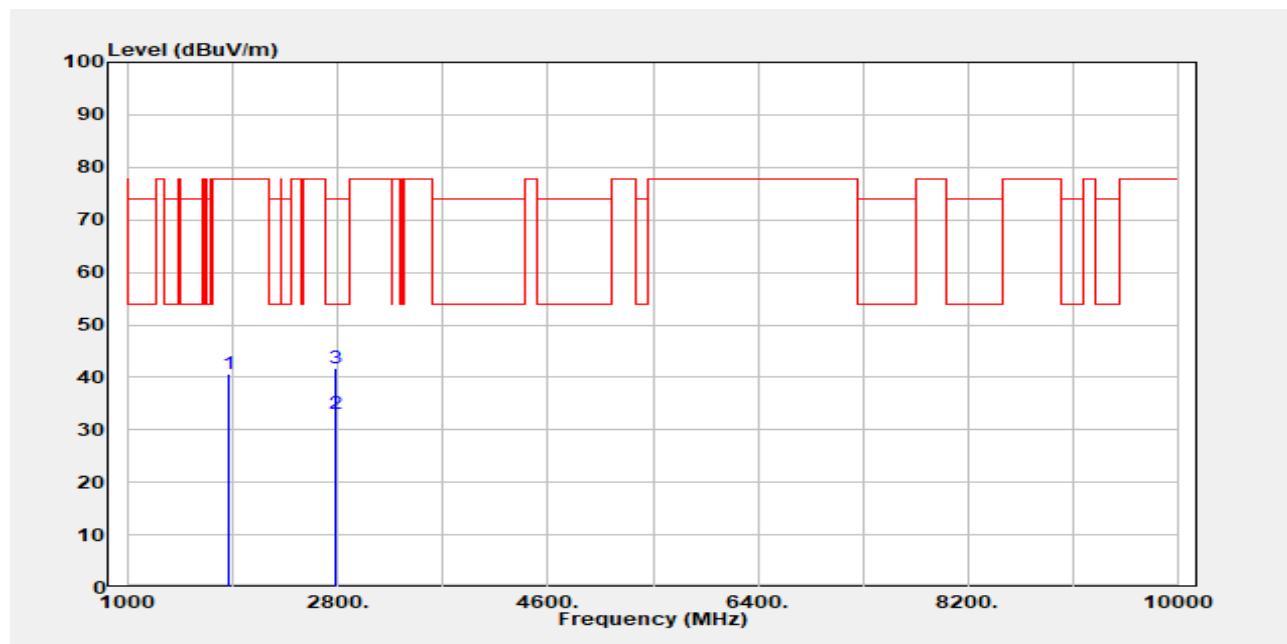
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Report Number :TERF2504001287E2
 Operation Mode :FSK 100Kbps 249bytes
 Test Frequency :926.9 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-18
 Temp./Humi. :23.2°C/51%
 Antenna Pol. :Vertical
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 1853.800 | Peak | 46.84 | -6.19 | 40.65 | 77.77 | -37.12 |
| 2780.700 | Average | 36.20 | -3.23 | 32.96 | 54.00 | -21.04 |
| 2780.700 | Peak | 44.93 | -3.23 | 41.69 | 74.00 | -32.31 |

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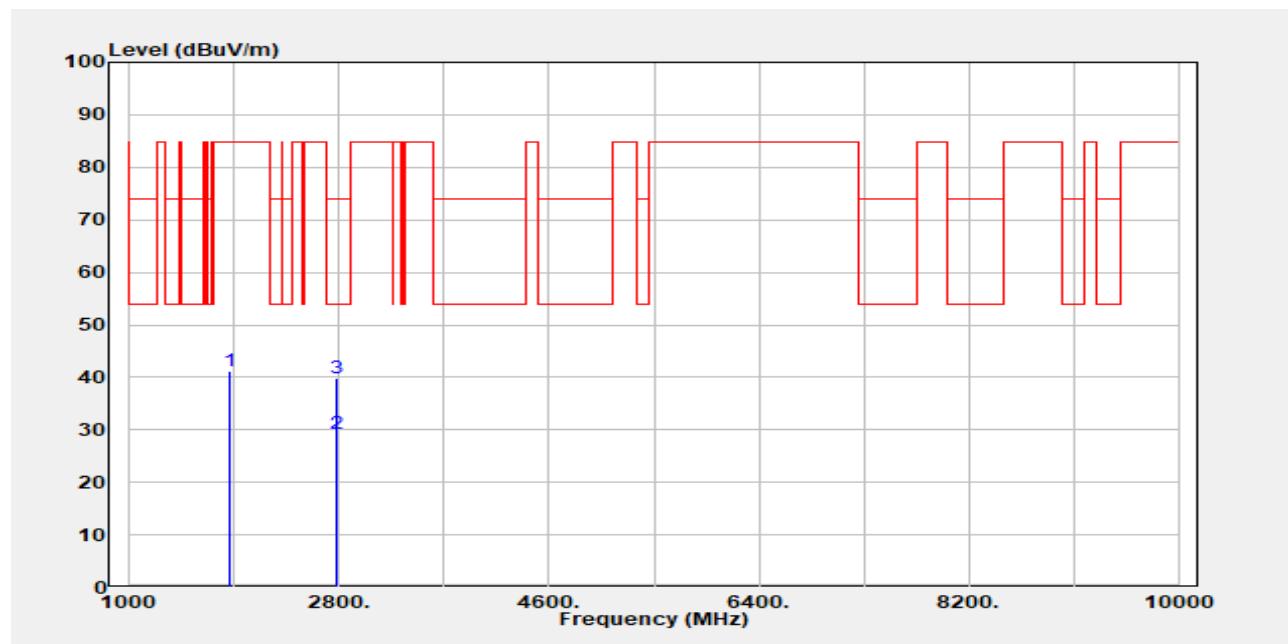
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Report Number :TERF2504001287E2
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 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-04-18
 Temp./Humi. :23.2°C/51%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 1853.800 | Peak | 47.33 | -6.19 | 41.14 | 84.82 | -43.68 |
| 2780.700 | Average | 32.50 | -3.23 | 29.26 | 54.00 | -24.74 |
| 2780.700 | Peak | 42.97 | -3.23 | 39.74 | 74.00 | -34.26 |

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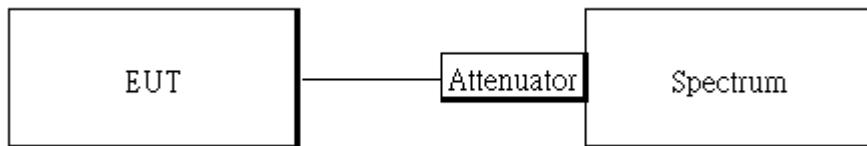
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

Per Part 15.247 (e) & RSS-247 section 5.2 b

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.

12.2 Test Setup



12.3 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. Set Detector = peak
6. Sweep time = auto couple.
7. Set Trace mode = 1M & 2M trace mode = average
4M & 8M trace mode = max hold
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

12.4 Measurement Result:

FSK 100Kbps 249bytes

| Frequency (MHz) | RF Power Density (dBm/3kHz) | Maximum Limit (dBm/3kHz) | Result |
|-----------------|-----------------------------|--------------------------|--------|
| 902.9 | 7.17 | 8 | PASS |
| 914.9 | 7.51 | 8 | PASS |
| 926.9 | 6.72 | 8 | PASS |

*Note:

1. cable loss as 10.3dB that offsets in the spectrum

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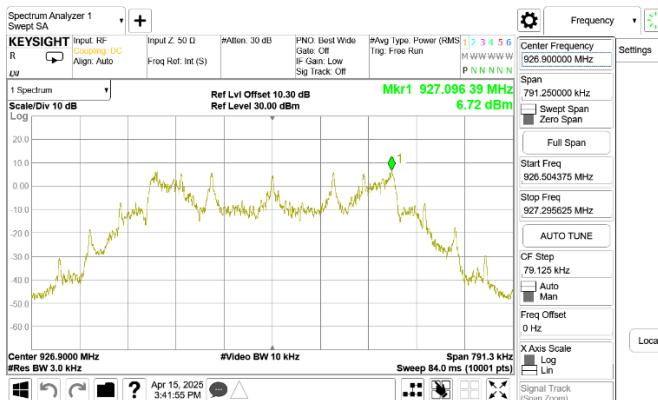
PSD_FSK 100Kbps 249bytes_LowCH-902.9MHz



PSD_FSK 100Kbps 249bytes_MidCH-914.9MHz



PSD_FSK 100Kbps 249bytes_HighCH-926.9MHz



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13 ANTENNA REQUIREMENT

13.1 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.

13.2 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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