

Report No.: BTEK240108001AE001

Page: 1 of 45 FCC ID: 2BDSV-512V30

TEST REPORT

Application No.: BTEK240108001AE

Applicant: Shenzhen Litime Technology Co., Ltd

Address of Applicant: Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong Street,

Shenzhen, China

Manufacturer: Shenzhen Litime Technology Co., Ltd

Address of Manufacturer: Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong Street,

Shenzhen, China

Factory: Shenzhen Litime Technology Co., Ltd

Address of Factory: Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong Street,

Shenzhen, China

Equipment Under Test (EUT):

EUT Name: LiTime 51.2V 30Ah GC Smart LiFe P04 Battery

Model No.: 51.2V 30Ah GC Smart, 51.2V 30Ah, 51.2V 30Ah GC, 51.2V 30Ah GC2, 51.2V

30Ah Smart, 51.2V 30Ah Group24, 51.2V 30Ah H190, 51.2V 30Ah Mini, 51.2V 30Ah Max, 51.2V 30Ah Self-Heating, 51.2V 30Ah Plus, 51.2V 30Ah LOW-TEMP Please refer to section 2 of this report which indicates which model was actually

tested and which were electrically identical.

Trade Mark: NA

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2024-01-08

Date of Test: 2024-01-08 to 2024-01-23

Date of Issue: 2024-01-25

Test Result: Pass*

Damon Su

EMC Laboratory Manager

ShenZhen BANTEK Testing Co.,Ltd.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| Revision Record | | | | | | |
|-----------------|---------|------------|----------|----------|--|--|
| Version | Chapter | Date | Modifier | Remark | | |
| 01 | | 2024-01-25 | | Original | | |
| | (1) | 0 | | 0 | | |
| | | | | | | |

| Authorized for issue by: | 25i // | 400 |
|--------------------------|-----------------------------|-----|
| BIEK | Elma. Kang | |
| 0 | Elma yang /Project Engineer | _ |
| | Carl. Yarg | |
| | Carl Yang /Reviewer | |

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2 Test Summary

| Radio Spectrum Technical Requirement | | | | | | |
|--------------------------------------|-------------------------------------|--------|--|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass | | |

| Radio Spectrum Matter Part | | | | | |
|---|------------------|---|--|--------|--|
| Item | Standard | Method | Requirement | Result | |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | N/A | |
| Conducted Peak Output Power | | ANSI C63.10 (2013) Section 11.9.1.3 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass | |
| Minimum 6dB Bandwidth | | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass | |
| Power Spectrum Density | 47 CFR Part 15, | ANSI C63.10 (2013) Section 11.10.2 | 47 CFR Part 15, Subpart C 15.247(e) | Pass | |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | |
| Conducted Spurious Emissions | Subpart C 15.247 | ANSI C63.10 (2013) Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | |
| Radiated Emissions which fall in the restricted bands | | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | |
| Radiated Spurious Emissions (Below 1GHz) | | ANSI C63.10 (2013) Section 6.4,6.5,6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | |
| Radiated Spurious Emissions (Above 1GHz) | | ANSI C63.10 (2013) Section 6.4,6.5,6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | |

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Model No.: 51.2V 30Ah GC Smart, 51.2V 30Ah, 51.2V 30Ah GC, 51.2V 30Ah GC2, 51.2V 30Ah Smart, 51.2V 30Ah Group24, 51.2V 30Ah H190, 51.2V 30Ah Mini, 51.2V 30Ah Max, 51.2V 30Ah Self-Heating, 51.2V 30Ah Plus, 51.2V 30Ah LOW-TEMP

Only the model 51.2V 30Ah GC Smart was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, Only the model number and product size are different.

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4 General Information

4.1 Details of E.U.T.

| Details of E.C.1. | | |
|---------------------|-----------------------------|--|
| | Operating Voltage: 51.2V | |
| Power supply: | Charging Voltage: 57.6±0.8V | |
| | Capacity: 30Ah | 0 0 |
| Test Voltage: | NA | |
| Cable(s): | | |
| Frequency Range: | 2402MHz to 2480MHz | // *** ******************************** |
| Bluetooth Version: | Bluetooth 5.0 | (L-X-3x 11) |
| Modulation Type: | GFSK | 815. |
| Number of Channels: | 40 | |
| Antenna Type: | PCB Antenna | |
| Antenna Gain: | 1.2dBi | Ô |

Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| 1 | | 1 1 | |

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ±3.12dB |
| Conducted Peak Output Power | ± 0.75dB |
| Minimum 6dB Bandwidth | ± 3% |
| Power Spectrum Density | ± 0.35dB |
| Conducted Band Edges Measurement | ± 0.75dB |
| Conducted Spurious Emissions | ± 0.75dB |
| Radiated Emissions which fall in the restricted bands | ±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz) |
| Radiated Spurious Emissions (Below 1GHz) | ±5.06dB (3m); ±4.46dB (10m) |
| Radiated Spurious Emissions (Above 1GHz) | ±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz) |

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4.4 Test Location

All tests were performed at:

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Shenzhen, Guangdong, China 518104

Tel: +86 0755-2334 4200 Fax: +86 0755-2334 4200

FCC Registration Number: 264293 Designation Number: CN1356 No tests were sub-contracted.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

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5 Equipment List

| Conducted Emissions at AC Mains Power Port | | | | | | | |
|--|----------------------|------------------------|-----------------|------------|------------|--|--|
| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due | | |
| Shielding Room | YIHENG ENECTRONIC | 9*5*3.3 | YH-BT-220304-04 | 2022-03-03 | 2025-03-02 | | |
| EMI Test Receiver | Rohde&Schwarz | ESCI | 101021 | 2023-06-12 | 2024-06-11 | | |
| Measurement Software | Fara | EZ_EMC Ver. FA-03A2 | N/A | N/A | N/A | | |
| LISN | Rohde&Schwarz | ENV216 | 101472 | 2023-06-12 | 2024-06-11 | | |
| LISN | Schwarzbeck | NSLK 8128 | 05127 | 2023-06-12 | 2024-06-11 | | |

| RF Conducted | | | | | |
|---|----------------------|-------------------------|---------------------|------------|--------------|
| Equipment | Manufacturer | Model No | Serial No | Cal Date | Cal Due Date |
| Shielding Room | YIHENG ENECTRONIC | 5.5*3.1*3 | YH-BT-220304- 03 | 2022-03-03 | 2025-03-02 |
| EXA Signal Analyzer | KEYSIGHT | N9020A | MY54230486 | 2023-06-12 | 2024-06-11 |
| DC Power Supply | E3632A | E3642A | KR75304416 | 2023-06-12 | 2024-06-11 |
| Attenuator | RswTech | SMA-JK-6dB | N/A | 2023-06-12 | 2024-06-11 |
| Attenuator | RswTech | SMA-JK-3dB | N/A | 2023-06-12 | 2024-06-11 |
| RF Control Unit | Techy | TR1029-1 | N/A | 2023-06-12 | 2024-06-11 |
| RF Sensor Unit | Techy | TR1029-2 | N/A | 2023-06-12 | 2024-06-11 |
| WIDEBAND RADIO COMMUNICATION TESTER | R&S | CMW 500 | 141258 | 2023-06-12 | 2024-06-11 |
| MXG Vector Signal Generator | Agilent | N5182A | US46240522 | 2023-06-12 | 2024-06-11 |
| Programmable Temperature&Humidity Chamber | GRT | GR-HWX1000 | GR22051001 | 2023-06-12 | 2024-06-11 |
| Measurement Software | ТАСНОҮ | RF TestSoft V2.0.0.0 | N/A | N/A | N/A |

| RSE | | | | | |
|-----------------------------|----------------------|------------------------|---------------------|------------|--------------|
| Equipment | Manufacturer | Model No | Serial No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | YIHENG ENECTRONIC | 966 | YH-BT-220304- 01 | 2022-05-06 | 2025-05-05 |
| EMI Test Receiver | Rohde&Schwarz | ESCI | 100694 | 2023-06-12 | 2024-06-11 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9168 | 01324 | 2022-06-15 | 2025-06-14 |
| Pre-Amplifier | Schwarzbeck | BBV 9745 | #180 | 2023-06-12 | 2024-06-11 |
| Measurement Software | Fara | EZ_EMC Ver. FA-03A2 | N/A | 2023-06-12 | 2024-06-11 |
| EXA Signal Analyzer | Keysight | N9020A | MY54440290 | 2023-06-12 | 2024-06-11 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 02695 | 2022-06-15 | 2025-06-14 |
| Pre-Amplifier | Tonscend | TAP0118045 | AP20K806109 | 2023-06-12 | 2024-06-11 |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 1157 | 2022-06-15 | 2025-06-14 |

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| Low Noise Pre-amplifier | SKET | LNPA-1840G- 50 SK2022032902 | | 2023-06-12 | 2024-06-11 |
|-------------------------|---------------|--------------------------------|----------|------------|------------|
| Signal analyzer | ROHDE&SCHWARZ | FSQ40 | 100010 | 2023-06-12 | 2024-06-11 |
| Loop Antenna | ETS | 6502 | 00201177 | 2022-06-15 | 2025-06-14 |

| General used equipment | | | | | | | | | |
|---|--------------|--------------------------|-----|------------|--------------|--|--|--|--|
| Equipment | Manufacturer | Manufacturer Model No Se | | Cal Date | Cal Due Date | | | | |
| Humidity/Temperature/Bar ometric Pressure Indicator | KUMAR | F132 | N/A | 2023-06-12 | 2024-06-11 | | | | |
| Humidity/Temperature/Bar | KUMAR | F132 | N/A | 2023-06-12 | 2024-06-11 | | | | |

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

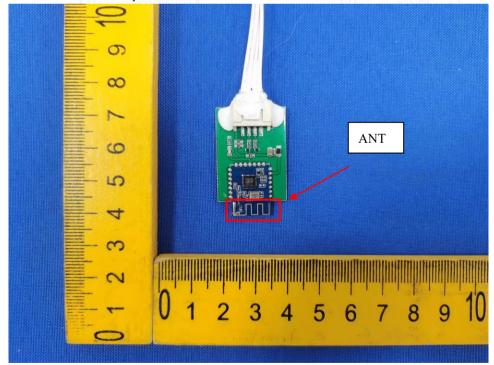
15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.2dBi.

Please refer to internal photos.



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Radio Spectrum Matter Test Results 7

7.1 **Conducted Emissions at AC Power Line (150kHz-30MHz)**

Test Requirement

47 CFR Part 15, Subpart C 15.207

Test Method:

ANSI C63.10 (2013) Section 6.2

Limit:

| European of omission (MII-) | Condu | cted limit(dBµV) |
|--|----------------------------|------------------|
| Frequency of emission(MHz) | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |
| *Decreases with the logarithm of the frequ | iency. | |
| Detector: Peak for pre-scan (9kHz resoluti | on bandwidth) 0.15M to 30N | ИНz |

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

60.5 % RH Humidity:

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Mode Pre-scan / Final test

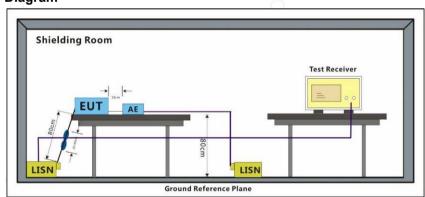
Code

Description

Final test 01 Charge+TX mode_Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Note: Due to the EUT is a Battery, it is powered by DC 57.6±0.8V. So, the Conducted Emissions at AC Power Line is not applicability.

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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) Test Method: ANSI C63.10 (2013) Section 11.9.1.3

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|----------------------|--|
| | 1 for ≥50 hopping channels |
| 902-928 | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| 111 20% | 1 for ≥75 non-overlapping hopping channels |
| 2400-2483.5 | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

7.2.1 E.U.T. Operation

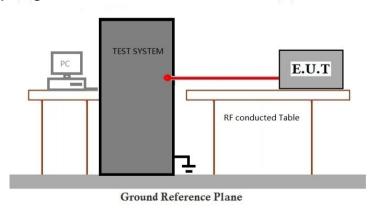
Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 00 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 01 | Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.3.1 E.U.T. Operation

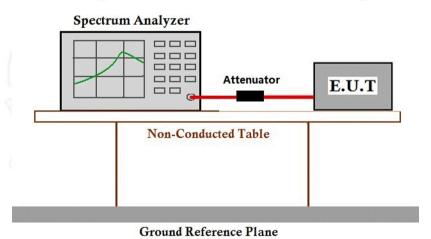
Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 00 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 01 | Charge+ TX mode_Keep the EUT in charging and continuously transmitting |

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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7.4 Power Spectrum Density

Test Requirement

47 CFR Part 15, Subpart C 15.247(e)

Test Method:

ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humi

Humidity: 50.0 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Mode Final test Code

Description

Final test 00

TX mode_Keep the EUT in continuously transmitting mode with GFSK

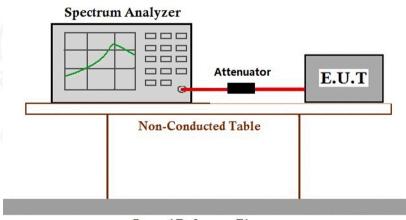
modulation.

Pre-scan 01

Charge+ TX mode_Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.5.1 E.U.T. Operation

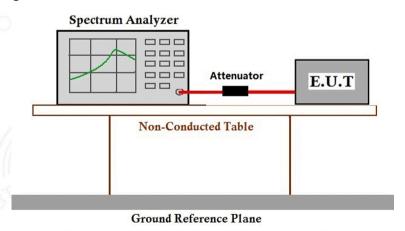
Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 00 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 01 | Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.6.1 E.U.T. Operation

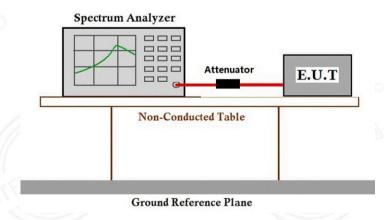
Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 00 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 01 | Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) | | |
|----------------|----------------------------------|------------------------------|--|--|
| 0.009-0.490 | 2400/F(kHz) | 300 | | |
| 0.490-1.705 | 24000/F(kHz) | 30 | | |
| 1.705-30.0 | 30 | 30 | | |
| 30-88 | 100 | 3 | | |
| 88-216 | 150 | 3 | | |
| 216-960 | 200 | 3 | | |
| Above 960 | 500 | 3 | | |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 54.3 % RH Atmospheric Pressure: 1010 mba

7.7.2 Test Mode Description Pre-scan / Mode

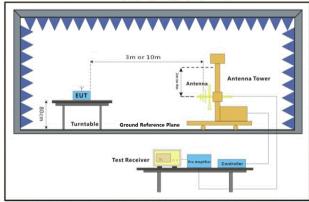
| Final test | Code | Description |
|------------|------|--|
| Final test | 00 | TX mode_Keep the EUT in continuously transmitting mode with GFSK |

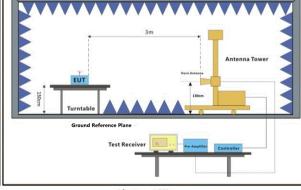
modulation.

Pre-scan 01 Charge+ TX mode_Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

7.7.3 Test Setup Diagram





30MHz-1GHz Above 1GHz

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7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low

| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|-------------------|----------------|------------|----------|-----|
| 1 | 2310.000 | 68.34 | -30.59 | 37.75 | 74.00 | -36.25 | peak | Р |
| 2 | 2390.000 | 69.99 | -30.49 | 39.50 | 74.00 | -34.50 | peak | Р |
| 3 | 2400.000 | 78.12 | -30.48 | 47.64 | 74.00 | -26.36 | peak | Р |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low

| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|-------------------|----------------|------------|----------|-----|
| 1 | 2310.000 | 68.80 | -30.59 | 38.21 | 74.00 | -35.79 | peak | Р 🖔 |
| 2 | 2390.000 | 70.16 | -30.49 | 39.67 | 74.00 | -34.33 | peak | Р |
| 3 | 2400.000 | 77.92 | -30.48 | 47.44 | 74.00 | -26.56 | peak | Р |

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High

| | Frequency | Reading | Factor | Level | Limit | , , | | |
|-----|-----------|---------|--------|----------|----------|------------|----------|-----|
| No. | (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | Margin(dB) | Detector | P/F |
| 1 | 2483.500 | 80.26 | -30.39 | 49.87 | 74.00 | -24.13 | peak | Р |
| 2 | 2500.000 | 70.97 | -30.37 | 40.60 | 74.00 | -33.40 | peak | P |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High

| | | / | , | | , | e mannie ministri | | |
|-----|-----------------|----------------|---------------|-------------------|-------------------|-------------------|----------|-----|
| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
| 1 | 2483.500 | 79.40 | -30.39 | 49.01 | 74.00 | -24.99 | peak | Р |
| 2 | 2500.000 | 70.33 | -30.37 | 39.96 | 74.00 | -34.04 | peak | Р |

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7.8 Radiated Spurious Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209 Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.8.1 E.U.T. Operation

Pre-scan /

Operating Environment:

Temperature: 25.5 °C Humidity: 68.6 % RH Atmospheric Pressure: 1010 mba

7.8.2 Test Mode Description

Final test Code

Description

TX mode Keep the EUT in continuously transmitting mode with GFSK

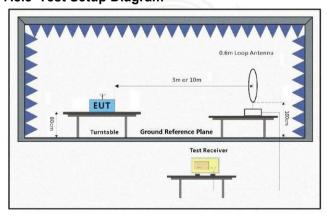
Pre-scan 00 modulation.

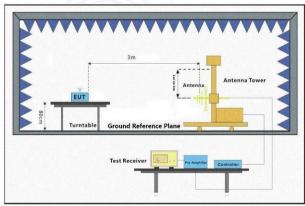
Mode

Final test 01 Charge+ TX mode_Keep the EUT in charging and continuously transmitting

mode with GFSK modulation.

7.8.3 Test Setup Diagram





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7.8.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: Low



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 * | 65.5727 | 51.34 | -19.12 | 32.22 | 40.00 | -7.78 | QP | 300 | 171 | Р | |
| 2 | 113.7143 | 54.34 | -19.71 | 34.63 | 43.50 | -8.87 | QP | 300 | 73 | Р | |
| 3 | 143.8295 | 49.38 | -17.26 | 32.12 | 43.50 | -11.38 | QP | 100 | 113 | Р | |
| 4 | 224.5193 | 54.85 | -19.81 | 35.04 | 46.00 | -10.96 | QP | 100 | 113 | Р | |
| 5 | 278.0668 | 56.00 | -18.28 | 37.72 | 46.00 | -8.28 | QP | 100 | 212 | Р | |
| 6 | 766.0571 | 45.21 | -8.61 | 36.60 | 46.00 | -9.40 | QP | 300 | 24 | Р | |

Note: Level =Reading + Factor



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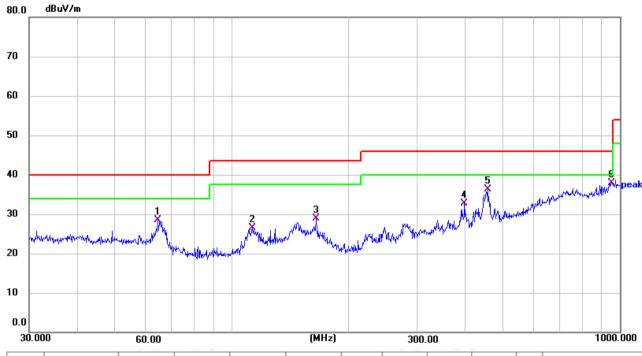




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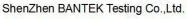
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|-------------------|------------------|-------------------|-------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 64.4330 | 47.50 | -18.96 | 28.54 | 40.00 | -11.46 | QP | 300 | 114 | Р | |
| 2 | 112.9196 | 46.27 | -19.78 | 26.49 | 43.50 | -17.01 | QP | 100 | 295 | Р | |
| 3 | 164.9074 | 46.55 | -17.73 | 28.82 | 43.50 | -14.68 | QP | 300 | 348 | Р | |
| 4 | 397.6334 | 48.18 | -15.44 | 32.74 | 46.00 | -13.26 | QP | 100 | 196 | Р | |
| 5 | 455.9058 | 50.29 | -14.06 | 36.23 | 46.00 | -9.77 | QP | 100 | 307 | Р | |
| 6 * | 952.0937 | 44.74 | -6.93 | 37.81 | 46.00 | -8.19 | QP | 300 | 237 | Р | |

Note: Level =Reading + Factor



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7.9 Radiated Spurious Emissions (Above 1GHz)

Test Requirement

47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method:

ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 54.3 % RH

Atmospheric Pressure: 1010

7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 00 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 01 | Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation. |

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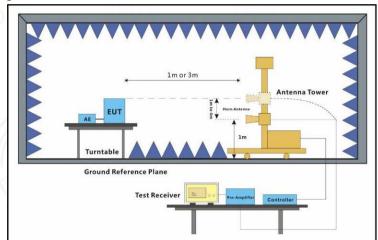




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7.9.3 Test Setup Diagram





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7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: Low

| | | | , , | 112011141, 111041 | , | | | |
|-----|-----------------|----------------|---------------|-------------------|----------------|------------|----------|-----|
| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
| 1 | 2915.385 | 70.02 | -30.12 | 39.89 | 74.00 | -34.11 | peak | Р |
| 2 | 4277.061 | 68.02 | -29.47 | 38.55 | 74.00 | -35.45 | peak | Р |
| 3 | 6084.849 | 65.17 | -26.04 | 39.13 | 74.00 | -34.87 | peak | Р |
| 4 | 8646.156 | 68.90 | -24.04 | 44.87 | 74.00 | -29.13 | peak | Р |
| 5 | 11047.703 | 67.93 | -23.29 | 44.63 | 74.00 | -29.37 | peak | Р |
| 6 | 14218.868 | 70.76 | -21.26 | 49.50 | 74.00 | -24.50 | peak | Р |

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel:Low

| | | Readin | | | , === | | | |
|-----|-----------|--------|--------|----------|----------|------------|----------|-----|
| | Frequency | g | Factor | Level | Limit | | | C |
| No. | (MHz) | (dBuv) | (dB/m) | (dBuv/m) | (dBuv/m) | Margin(dB) | Detector | P/F |
| 1 | 2973.858 | 66.44 | -29.20 | 37.23 | 74.00 | -36.77 | peak | Р |
| 2 | 4312.612 | 68.26 | -28.56 | 39.70 | 74.00 | -34.30 | peak | Р |
| 3 | 6352.836 | 68.21 | -24.60 | 43.61 | 74.00 | -30.39 | peak | Р |
| 4 | 8576.465 | 69.86 | -25.59 | 44.27 | 74.00 | -29.73 | peak | Р |
| 5 | 11286.233 | 67.73 | -22.71 | 45.02 | 74.00 | -28.98 | peak | Р |
| 6 | 14955.691 | 71.62 | -20.78 | 50.83 | 74.00 | -23.17 | peak | Р |

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle

| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|-------------------|----------------|------------|----------|-----|
| 1 | 2915.516 | 70.10 | -30.55 | 39.56 | 74.00 | -34.44 | peak | Р |
| 2 | 4276.914 | 68.38 | -28.76 | 39.62 | 74.00 | -34.38 | peak | Р |
| 3 | 6085.010 | 65.58 | -24.38 | 41.20 | 74.00 | -32.80 | peak | Р |
| 4 | 8645.002 | 69.73 | -24.74 | 44.99 | 74.00 | -29.01 | peak | Р |
| 5 | 11047.149 | 68.03 | -23.03 | 45.00 | 74.00 | -29.00 | peak | Р |
| 6 | 14217.242 | 70.36 | -20.46 | 49.90 | 74.00 | -24.10 | peak | Р |

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Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: middle

| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|-------------------|----------------|------------|----------|-----|
| 1 | 2972.772 | 67.14 | -30.21 | 36.93 | 74.00 | -37.07 | peak | Р |
| 2 | 4313.077 | 68.35 | -28.10 | 40.25 | 74.00 | -33.75 | peak | Р |
| 3 | 6353.074 | 68.39 | -25.64 | 42.75 | 74.00 | -31.25 | peak | Р |
| 4 | 8575.483 | 69.70 | -25.27 | 44.42 | 74.00 | -29.58 | peak | Р |
| 5 | 11285.197 | 68.48 | -22.92 | 45.57 | 74.00 | -28.43 | peak | Р |
| 6 | 14955.379 | 70.31 | -19.93 | 50.38 | 74.00 | -23.62 | peak | Р |

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High

| | | | | , | | | | |
|-----|--------------------|----------------|---------------|-------------------|----------------|------------|----------|-----|
| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
| 1 | 2914.798 | 69.62 | -28.85 | 40.78 | 74.00 | -33.22 | peak | Р |
| 2 | 4277.168 | 68.35 | -28.50 | 39.85 | 74.00 | -34.15 | peak | Р |
| 3 | 6086.000 | 65.34 | -25.87 | 39.47 | 74.00 | -34.53 | peak | Р |
| 4 | 8646.219 | 70.42 | -25.42 | 45.01 | 74.00 | -28.99 | peak | Р |
| 5 | 11047.662 | 67.74 | -23.47 | 44.27 | 74.00 | -29.73 | peak | P |
| 6 | 14218.151 | 70.18 | -21.46 | 48.72 | 74.00 | -25.28 | peak | Р |

Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High

| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
|-----|--------------------|----------------|---------------|-------------------|-------------------|------------|----------|-----|
| 1 | 2973.136 | 67.63 | -28.91 | 38.71 | 74.00 | -35.29 | peak | Р |
| 2 | 4313.281 | 68.45 | -28.77 | 39.68 | 74.00 | -34.32 | peak | Р |
| 3 | 6352.474 | 66.69 | -25.35 | 41.34 | 74.00 | -32.66 | peak | Р |
| 4 | 8575.985 | 69.68 | -25.40 | 44.28 | 74.00 | -29.72 | peak | Р |
| 5 | 11286.411 | 67.73 | -22.49 | 45.24 | 74.00 | -28.76 | peak | Р |
| 6 | 14955.682 | 71.20 | -20.61 | 50.59 | 74.00 | -23.41 | peak | Р |

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8 Test Setup Photo

Please refer to the Appendix test setup Photos.

9 EUT Constructional Details (EUT Photos)

Please refer to the Appendix EUT Photos.

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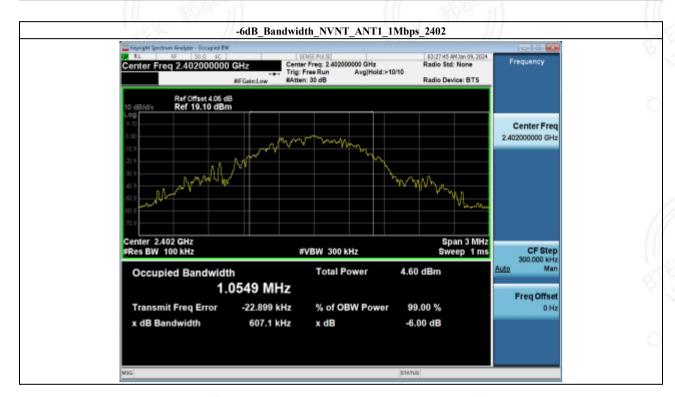
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10 Appendix

1. -6dB Bandwidth

| Condition | Antenna | Rate | Frequency (MHz) | -6dB BW(kHz) | limit(kHz) | Result |
|-----------|---------|-------|-----------------|--------------|------------|--------|
| NVNT | ANT1 | 1Mbps | 2402 | 607.06 | 500 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | 669.67 | 500 | Pass |
| NVNT | ANT1 | 1Mbps | 2480 | 728.66 | 500 | Pass |



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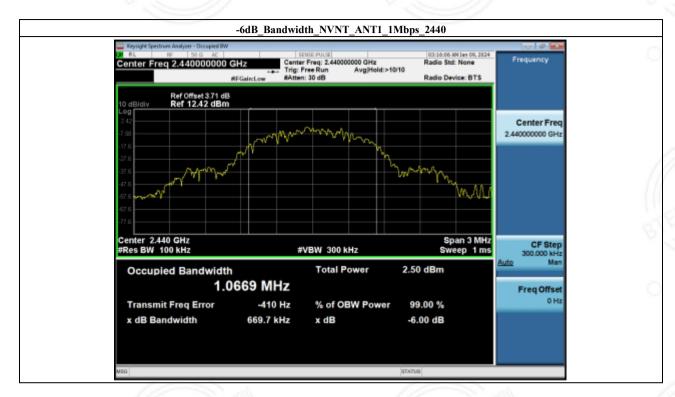
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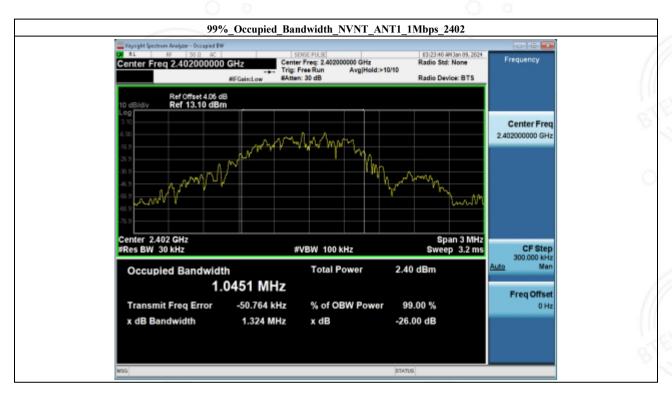


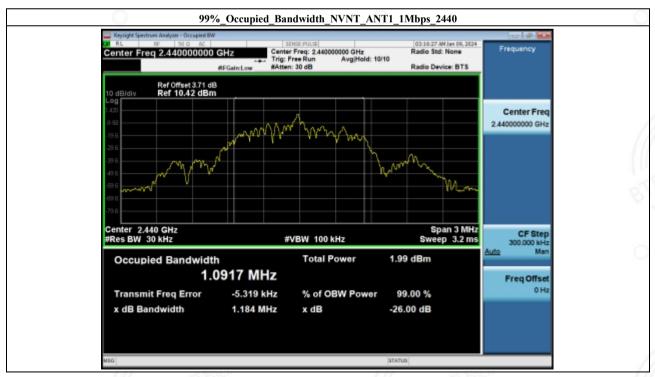
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2. 99% Occupied Bandwidth

| Condition | ondition Antenna | | Antenna Rate | | Frequency (MHz) | 99%%BW(MHz) | |
|-----------|------------------|--------|--------------|-------|-----------------|-------------|--|
| NVNT | ANT1 | 1Mbps | 2402 | 1.045 | | | |
| NVNT | ANT1 | 1 Mbps | 2440.00 | 1.092 | | | |
| NVNT | ANT1 | 1Mbps | 2480 | 0.969 | | | |





99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2480

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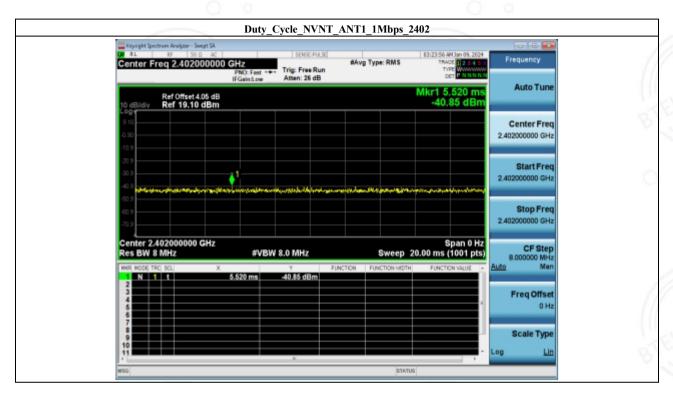


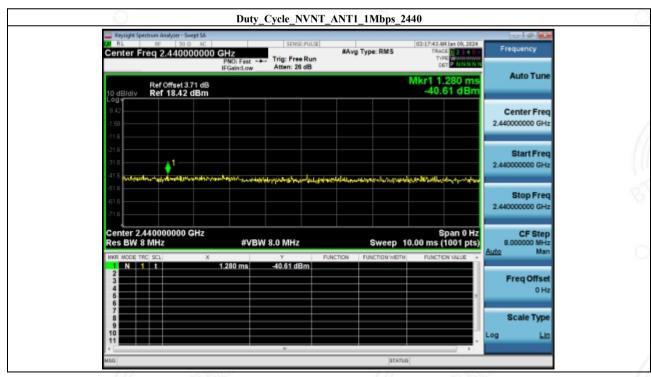
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3. Duty Cycle

| Condition | Antenna | Rate | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|-----------|---------|-------|-----------------|--------------|-------------|
| NVNT | ANT1 | 1Mbps | 2402 | 100 | 0.00 |
| NVNT | ANT1 | 1Mbps | 2440.00 | 100 | 0.00 |
| NVNT | ANT1 | 1Mbps | 2480 | 100 | 0.00 |





Duty_Cycle_NVNT_ANT1_1Mbps_2480

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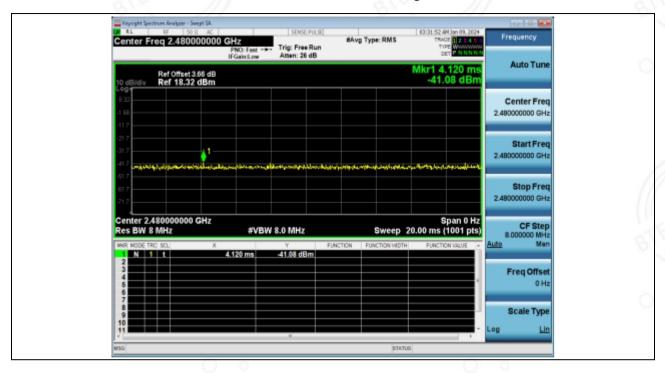
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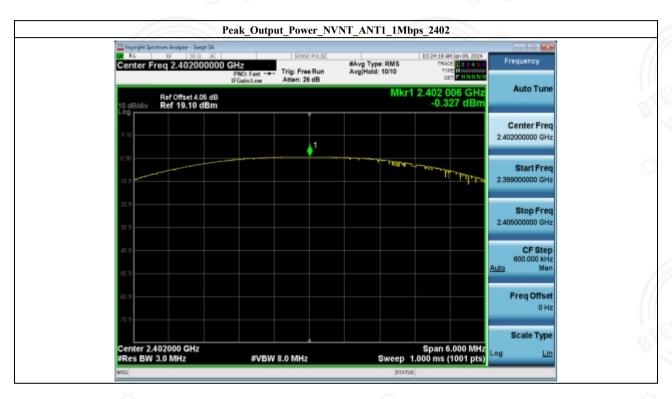


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4. Peak Output Power

| Condition | Antenna | Rate | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|-----------|---------|-------|--------------------|------------------------------|-----------------------------|-----------|--------|
| NVNT | ANT1 | 1Mbps | 2402 | -0.33 | 0.93 | 1000 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | -0.77 | 0.84 | 1000 | Pass |
| NVNT | ANT1 | 1Mbps | 2480 | -1.02 | 0.79 | 1000 | Pass |





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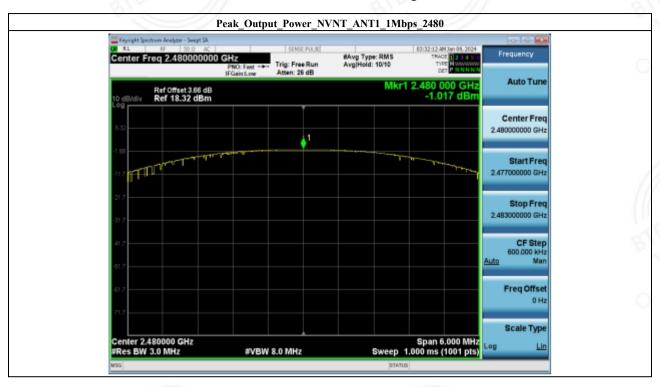
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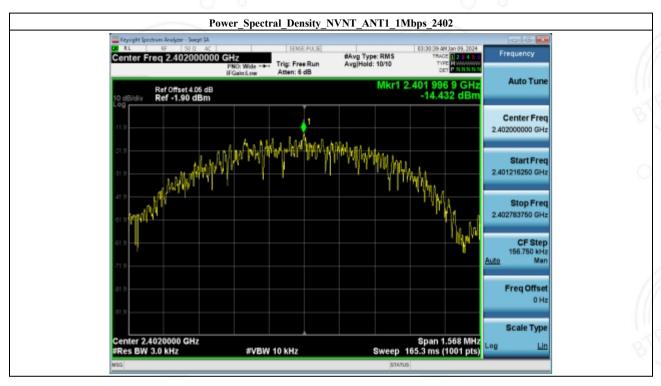


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5. Power Spectral Density

| Condition | Antenna | Rate | Frequency (MHz) | Power Spectral Density(dBm) | Limit(dBm/3kHz) | Result |
|-----------|---------|-------|-----------------|-----------------------------|-----------------|--------|
| NVNT | ANT1 | 1Mbps | 2402 | -14.43 | 8 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | -13.12 | 8 | Pass |
| NVNT | ANT1 | 1Mbps | 2480 | -14.44 | 8 | Pass |





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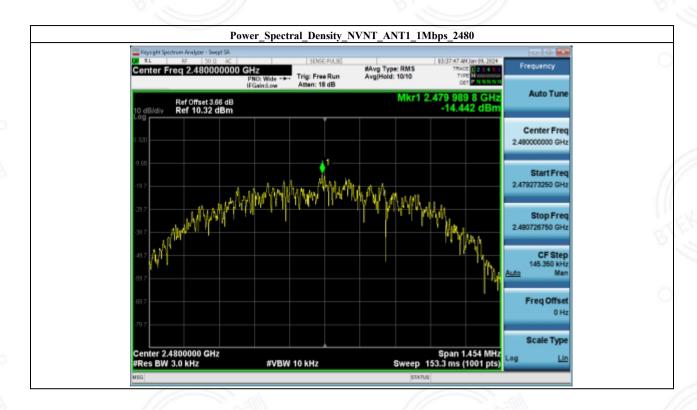
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6. Bandedge

| | Condition | Antenna | Rate | TX_Frequency (MHz) | Max. Mark Frequency (MHz) | Spurious level(dBm) | limit(dBm) | Result |
|---|-----------|---------|-------|-----------------------|------------------------------|------------------------|------------|--------|
| | NVNT | ANT1 | 1Mbps | 2402 | 2399.965 | -61.611 | -22.740 | Pass |
| ĺ | NVNT | ANT1 | 1Mbps | 2480 | 2495.975 | -62.769 | -22.404 | Pass |



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7. Spurious Emission

| Condition | Antenna | Rate | TX_Frequency(MHz) | Spurious MAX.Value(dBm) | Limit | Result |
|-----------|---------|-------|-------------------|-------------------------|---------|--------|
| NVNT | ANT1 | 1Mbps | 2402 | -24.807 | -22.740 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | -58.411 | -22.987 | Pass |
| NVNT | ANT1 | 1Mbps | 2480 | -51.404 | -18.923 | Pass |



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