

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR231000322902

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TEST REPORT

Application No.: SZCR2310003229AT

Applicant: Vision IOT Inc

Address of Applicant: 22994 Lavender Valley CT Ashburn, Virginia20148, United States

Manufacturer: Vision IOT Inc

Address of Manufacturer: 22994 Lavender Valley CT ASHBURN, VA 20148

Factory: SHI JIAZHUANG OURPCB Tech. Ltd

Address of Factory: 3RD FLOOR NANHAI PLAZA, NO.505 XINHUA ROAD, XINHUA

DISTRICT, SHIJIAZHUANG, HEBEI, CHINA

Equipment Under Test (EUT):

EUT Name: Smart HUB

Model No.: SHET53211G

Trade Mark: Vision IOT

FCC ID: 2BBDSSHET53211G

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

Date of Receipt: 2023-10-07

Date of Test: 2023-10-08 to 2023-10-27

Date of Issue: 2023-10-27

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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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 | | 2023-10-27 | | Original | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|----------------------------|--|
| | Edisonti | |
| | Edison Li/Project Engineer | |
| | Exic Fu | |
| | Eric Fu/Reviewer | |



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Test Summary 2

| 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 | Pass | | |
| Conducted Peak Output Power | | ANSI C63.10 (2013) Section 11.9.1 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass | | |
| Minimum 6dB Bandwidth | 47 CFR Part 15, | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass | | |
| Power Spectrum Density | | 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 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | | |
| Radiated Spurious Emissions Above 1GHz | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | | |



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General Information

4.1 Details of E.U.T.

| Power supply: | AC 85V-264V, 50Hz |
|---------------------|---|
| | Backup battery |
| | 3.7V 550mAh rechargeable backup battery |
| Frequency Range: | 2402MHz to 2480MHz |
| Bluetooth Version: | V5.0 |
| Modulation Type: | GFSK |
| Number of Channels: | 40 |
| Sample Type: | Fixed device |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 2.96dBi |

Remark: The information in this section is provided by the applicant or manufacturer, SGS 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. | | | |
|---|--------------|-----------|------------|--|--|--|
| | | | | | | |
| The EUT has been tested as an independent unit. | | | | | | |

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|--|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ± 3.1dB |
| Conducted Peak Output Power | ± 0.75dB |
| Minimum 6dB Bandwidth | ± 3% |
| Power Spectrum Density | ± 2.84dB |
| Conducted Band Edges Measurement | ± 0.75dB |
| Conducted Spurious Emissions | ± 0.75dB |
| Radiated Emissions which fall in the restricted bands | ± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz | ± 6.0dB for 3m; ± 5.0dB for 10m |
| Radiated Spurious Emissions Above 1GHz | ± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz) |

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 **Abnormalities from Standard Conditions**

None



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5 **Equipment List**

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | | |
|---|------------------|----------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2022-05-14 | 2025-05-13 | |
| EMI Test Receiver | Rohde&Schwarz | ESCI | SEM004-02 | 2023-03-20 | 2024-03-19 | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27a | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2023-07-07 | 2024-07-06 | |
| LISN | Rohde&Schwarz | ENV216 | SEM007-01 | 2023-09-19 | 2024-09-18 | |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2023-03-20 | 2024-03-19 | |

| Conducted Peak Output Power | | | | | | |
|-----------------------------|--------------|-------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| Power Sensor | TST PASS | TSPS2023R | SEM009-26 | 2023-04-01 | 2024-03-31 | |
| Power Sensor | KEYSIGHT | U2021XA | SEM009-16 | 2023-03-21 | 2024-03-20 | |
| DC Power Supply | Chromo | 62012P-80-60 | CEM044 44 | 2022-10-21 | 2023-10-20 | |
| | Chroma | | SEM011-11 | 2023-10-19 | 2024-10-18 | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2023-03-21 | 2024-03-20 | |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | 2023-03-31 | 2024-03-30 | |

| Minimum 6dB Bandwidth | | | | | | |
|-----------------------|---|-------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| DC Dower Cumply | DC Power Supply Chroma 62012P-80-60 SEM011-11 | 2022-10-21 | 2023-10-20 | | | |
| DC Power Supply | | 62012P-80-60 | SEMOTI-TI | 2023-10-19 | 2024-10-18 | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2023-03-21 | 2024-03-20 | |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | 2023-03-31 | 2024-03-30 | |



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| Power Spectrum Density | | | | | | |
|------------------------|--------------|-------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| DC Dower Cumply | Chromo | 62012D 90 60 | CEM011 11 | 2022-10-21 | 2023-10-20 | |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2023-03-21 | 2024-03-20 | |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | 2023-03-31 | 2024-03-30 | |

| Conducted Band Edges Measurement | | | | | | |
|----------------------------------|------------------------------------|-------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| DC Davier Comple | DO D | | CEM044 44 | 2022-10-21 | 2023-10-20 | |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2023-03-21 | 2024-03-20 | |
| Measurement Software | Measurement Software TST PASS V2.0 | | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | 2023-03-31 | 2024-03-30 | |

| Conducted Spurious Emissions | | | | | | |
|------------------------------|--------------|-------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| DC Dower Cupply | DO D | | CEM044 44 | 2022-10-21 | 2023-10-20 | |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2023-03-21 | 2024-03-20 | |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | 2023-03-31 | 2024-03-30 | |



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| Radiated Emissions which fall in the restricted bands | | | | | | |
|---|--|---------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2023-04-01 | 2026-03-31 | |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2023-03-20 | 2024-03-19 | |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2023-07-23 | 2025-07-22 | |
| Microwave system amplifier | Agilent | 83017A | SEM005-25 | 2023-09-19 | 2024-09-18 | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2023-07-07 | 2024-07-06 | |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2022-08-10 | 2024-08-09 | |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2023-03-20 | 2024-03-19 | |

| Radiated Spurious Emissions Below 1GHz | | | | | | |
|--|----------------------|---------------------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2021-11-30 | 2023-11-29 | |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2023-06-19 | 2026-06-18 | |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2022-10-21 | 2023-10-20 | |
| MIXE EIVII Receiver | | | | 2023-10-19 | 2024-10-18 | |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2023-09-16 | 2025-09-15 | |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2023-03-20 | 2024-03-19 | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2023-07-07 | 2024-07-06 | |



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| Radiated Spurious Emissions Above 1GHz | | | | | | | |
|--|-----------------|---------------------|---------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | |
| 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2023-04-01 | 2026-03-31 | | |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2023-03-20 | 2024-03-19 | | |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2023-07-23 | 2025-07-22 | | |
| Microwave system amplifier | Agilent | 83017A | SEM005-25 | 2023-09-19 | 2024-09-18 | | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2023-07-07 | 2024-07-06 | | |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2022-08-10 | 2024-08-09 | | |
| Pre-Amplifier Compliance Directions Systems Inc. | | PAP-2640-50 | SEM005-08 | 2023-03-20 | 2024-03-19 | | |

| General used equipment | | | | | | |
|---------------------------------|---|-----------|---------------|------------|--------------|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-32 | 2023-07-28 | 2024-07-27 | |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-33 | 2023-07-28 | 2024-07-27 | |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2023-03-23 | 2024-03-22 | |



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Radio Spectrum Technical Requirement 6

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:

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, 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.

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 2.96 dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of | Conducted limit(dBµV) | | | | |
|---|--------------------------------------|-----------|--|--|--|
| 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 frequency. | | | | | |
| Detector: Peak for pre-scan (9kF | dz resolution bandwidth) 0.15M to 30 | MHz | | | |

7.1.1 E.U.T. Operation

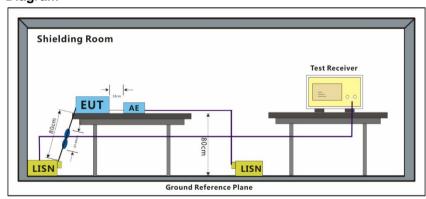
Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

| 1112 1001 111040 2000 1 211011 | | | | | | |
|--------------------------------|--------------|--|--|--|--|--|
| Pre-scan / Final test | Mode Code | Description | | | | |
| Final test | 02 | TX mode_Keep the EUT in 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 50ohm/50µH + 5ohm 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
- 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: Level=Read Level+ Cable Loss+ LISN Factor



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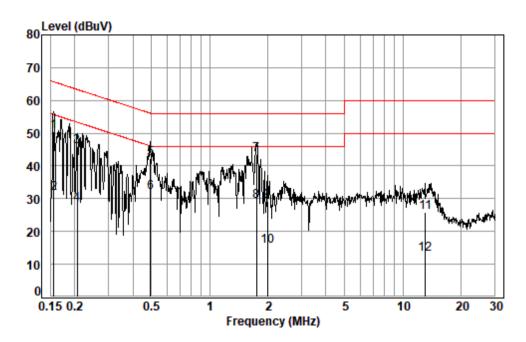


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Test Mode: 02: Line: Live line



: Shielding Room

Condition: Line Job No. : 03229AT

Test mode: 02

| | | Cable | LISN | Read | | Limit | 0ver | |
|-----|---------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1557 | 0.02 | 10.26 | 40.10 | 50.38 | 65.69 | -15.31 | QP |
| 2 | 0.1557 | 0.02 | 10.26 | 21.35 | 31.63 | 55.69 | -24.06 | Average |
| 3 | 0.2061 | 0.02 | 10.28 | 35.70 | 46.00 | 63.36 | -17.36 | QP |
| 4 | 0.2061 | 0.02 | 10.28 | 18.14 | 28.44 | 53.36 | -24.92 | Average |
| 5 | 0.4941 | 0.04 | 10.35 | 31.89 | 42.28 | 56.10 | -13.82 | QP |
| 6 * | 0.4941 | 0.04 | 10.35 | 21.57 | 31.96 | 46.10 | -14.14 | Average |
| 7 * | 1.7529 | 0.07 | 10.38 | 32.97 | 43.42 | 56.00 | -12.58 | QP |
| 8 | 1.7529 | 0.07 | 10.38 | 18.63 | 29.08 | 46.00 | -16.92 | Average |
| 9 | 1.9906 | 0.07 | 10.38 | 18.65 | 29.10 | 56.00 | -26.90 | QP |
| 10 | 1.9906 | 0.07 | 10.38 | 5.00 | 15.45 | 46.00 | -30.55 | Average |
| 11 | 13.0575 | 0.21 | 10.84 | 14.76 | 25.81 | 60.00 | -34.19 | QP |
| 12 | 13.0575 | 0.21 | 10.84 | 2.10 | 13.15 | 50.00 | -36.85 | Average |



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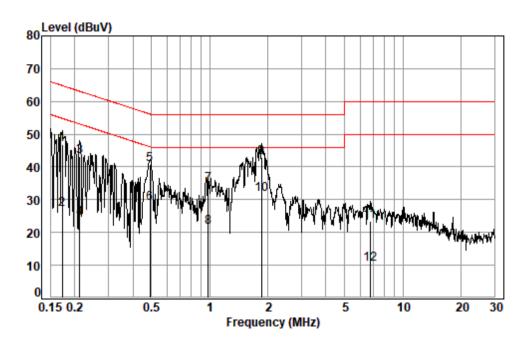


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Test Mode: 02: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03229AT

Test mode: 02

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|--------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1722 | 0.02 | 10.24 | 36.59 | 46.85 | 64.86 | -18.01 | QP |
| 2 | 0.1722 | 0.02 | 10.24 | 16.95 | 27.21 | 54.86 | -27.65 | Average |
| 3 | 0.2128 | 0.03 | 10.25 | 32.89 | 43.17 | 63.10 | -19.93 | QP |
| 4 | 0.2128 | 0.03 | 10.25 | 14.10 | 24.38 | 53.10 | -28.72 | Average |
| 5 | 0.4915 | 0.04 | 10.29 | 30.35 | 40.68 | 56.14 | -15.46 | QP |
| 6 | 0.4915 | 0.04 | 10.29 | 18.61 | 28.94 | 46.14 | -17.20 | Average |
| 7 | 0.9839 | 0.06 | 10.32 | 24.19 | 34.57 | 56.00 | -21.43 | QP |
| 8 | 0.9839 | 0.06 | 10.32 | 11.16 | 21.54 | 46.00 | -24.46 | Average |
| 9 * | 1.8581 | 0.07 | 10.33 | 32.52 | 42.92 | 56.00 | -13.08 | QP |
| 10 * | 1.8581 | 0.07 | 10.33 | 21.27 | 31.67 | 46.00 | -14.33 | Average |
| 11 | 6.7691 | 0.12 | 11.16 | 12.17 | 23.45 | 60.00 | -36.55 | QP |
| 12 | 6.7691 | 0.12 | 11.16 | -0.79 | 10.49 | 50.00 | -39.51 | Average |



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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

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 | | | |
| | 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

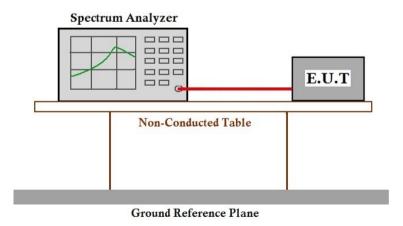
Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

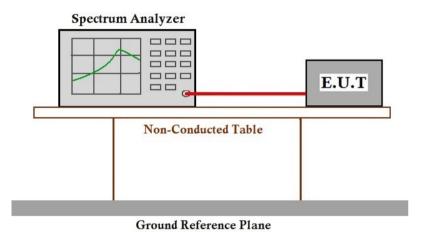
Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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

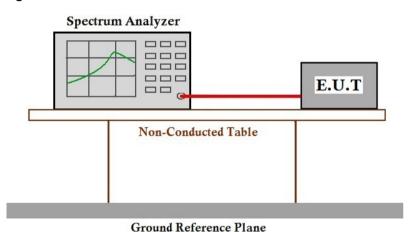
Operating Environment:

Temperature: Humidity: 45.2 % RH Atmospheric Pressure: 1000 mbar 20.2 °C

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

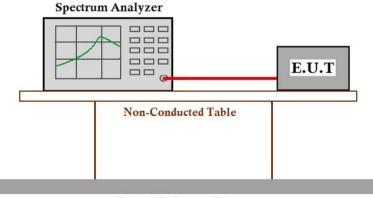
Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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

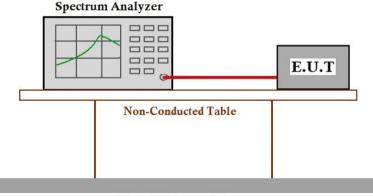
Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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

Measurement Distance: 3m

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

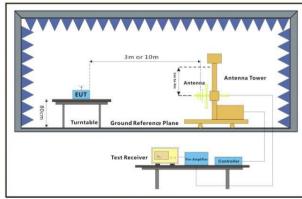
Operating Environment:

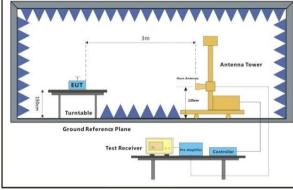
Temperature: 23.6 °C Humidity: 52.9 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.7.3 Test Setup Diagram





30MHz-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 middle 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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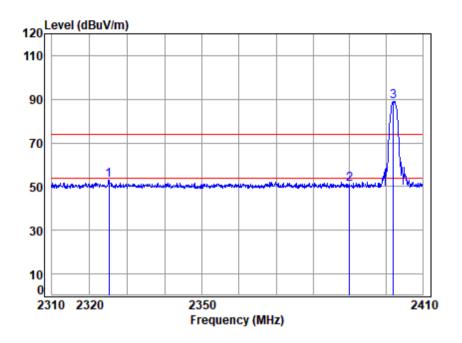


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03229AT

Mode : 2402 Band edge

: BLE Note

| | Freq | | | Preamp Factor | | | | | Remark |
|---|---------|------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2325.13 | 4.18 | 28.50 | 39.19 | 59.37 | 52.86 | 74.00 | -21.14 | peak |
| 2 | 2390.00 | 4.25 | 28.76 | 39.22 | 57.09 | 50.88 | 74.00 | -23.12 | peak |
| 3 | 2402.00 | 4.26 | 28.81 | 39.23 | 95.01 | 88.85 | 74.00 | 14.85 | peak |



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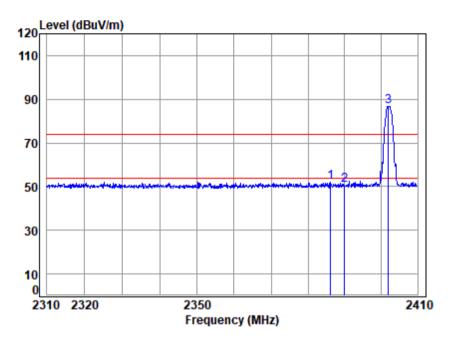


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03229AT

Mode : 2402 Band edge

: BLE Note

| | Freq | | | Preamp Factor | | | | | Remark |
|---|---------|------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2386.22 | 4.25 | 28.75 | 39.22 | 58.25 | 52.03 | 74.00 | -21.97 | peak |
| 2 | 2390.00 | 4.25 | 28.76 | 39.22 | 56.66 | 50.45 | 74.00 | -23.55 | peak |
| 3 | 2402.00 | 4.26 | 28.81 | 39.23 | 92.96 | 86.80 | 74.00 | 12.80 | peak |



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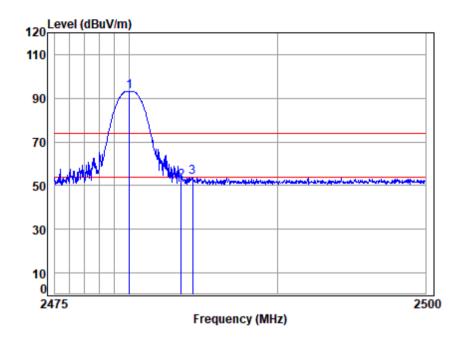


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03229AT

Mode : 2480 Band edge

Note : BLE

| loce | . DLL | | | | | | | | | |
|------|---------|-------|--------|--------|-------|--------|--------|--------|--------|--|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| 1 | 2480.00 | 4.34 | 29.28 | 39.27 | 98.81 | 93.16 | 74.00 | 19.16 | peak | |
| 2 | 2483.50 | 4.34 | 29.30 | 39.27 | 57.52 | 51.89 | 74.00 | -22.11 | peak | |
| 3 | 2484.25 | 4.34 | 29.31 | 39.27 | 59.44 | 53.82 | 74.00 | -20.18 | neak | |



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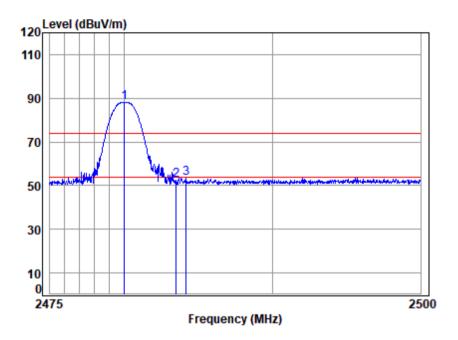


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Test Mode: 02; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber Condition: 3m VERTICAL Job No : 03229AT

Mode : 2480 Band edge

Note : BLE

| OCC | | | | | | | | | | |
|-----|---------|-------|--------|--------|-------|--------|--------|--------|--------|--|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| _ | | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | |
| 1 | 2480.00 | 4.34 | 29.28 | 39.27 | 93.79 | 88.14 | 74.00 | 14.14 | peak | |
| 2 | 2483.50 | 4.34 | 29.30 | 39.27 | 58.23 | 52.60 | 74.00 | -21.40 | peak | |
| 3 | 2484 17 | 4 34 | 29 31 | 39 27 | 59 13 | 53 51 | 74 99 | -20 49 | neak | |



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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

Measurement Distance: 3m

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 |
| 960-1000 | 500 | 3 |

7.8.1 E.U.T. Operation

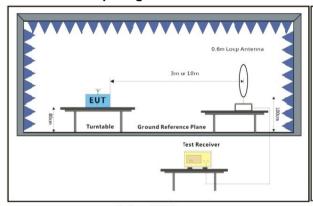
Operating Environment:

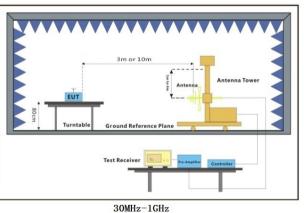
Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.8.3 Test Setup Diagram





Below 30MHz



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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 quasi-peak 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, 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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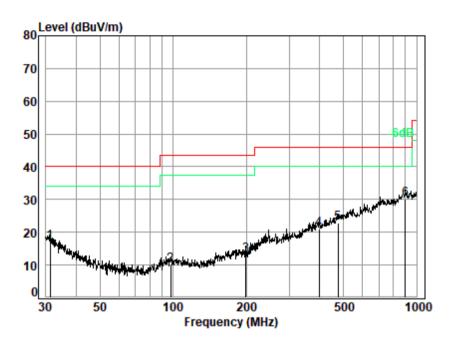


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Test Mode: 02; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03229AT

Test Mode: 02

| | | Ant | Cable | Preamp | Read | | Limit | 0ver | |
|-----|--------|--------|-------|--------|-------|--------|--------|--------|--------|
| | Freq | Factor | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 31.18 | 20.73 | 0.65 | 27.80 | 23.52 | 17.10 | 40.00 | -22.90 | QP |
| 2 | 97.80 | 12.93 | 1.18 | 27.62 | 23.54 | 10.03 | 43.50 | -33.47 | QP |
| 3 | 199.29 | 14.36 | 1.73 | 27.25 | 24.35 | 13.19 | 43.50 | -30.31 | QP |
| 4 | 397.63 | 21.65 | 2.54 | 27.33 | 23.99 | 20.85 | 46.00 | -25.15 | QP |
| 5 | 475.50 | 23.08 | 2.81 | 27.67 | 24.48 | 22.70 | 46.00 | -23.30 | QP |
| 6 a | 897.00 | 28.85 | 4.08 | 27.14 | 24.19 | 29.98 | 46.00 | -16.02 | OP. |



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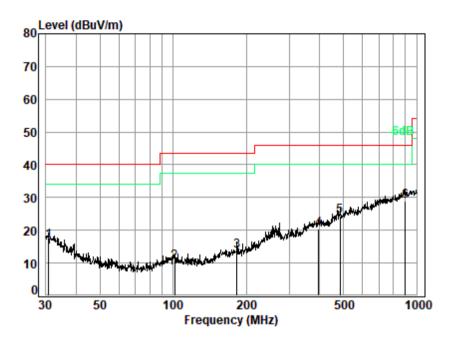


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Test Mode: 02; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03229AT

Test Mode: 02

| | | Ant | Cable | Preamp | Read | | Limit | 0ver | |
|-----|--------|--------|-------|--------|-------|--------|--------|--------|--------|
| | Freq | Factor | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 30.75 | 21.00 | 0.65 | 27.80 | 22.91 | 16.76 | 40.00 | -23.24 | QP |
| 2 | 101.64 | 13.00 | 1.20 | 27.60 | 23.61 | 10.21 | 43.50 | -33.29 | QP |
| 3 | 183.20 | 14.68 | 1.64 | 27.31 | 24.76 | 13.77 | 43.50 | -29.73 | QP |
| 4 | 396.24 | 21.65 | 2.54 | 27.32 | 23.37 | 20.24 | 46.00 | -25.76 | QP |
| 5 | 485.61 | 23.05 | 2.84 | 27.72 | 26.02 | 24.19 | 46.00 | -21.81 | QP |
| 6 g | 900.15 | 28.74 | 4.09 | 27.13 | 23.34 | 29.04 | 46.00 | -16.96 | OP |



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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 6.6

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1000 | 500 | 3 |

7.9.1 E.U.T. Operation

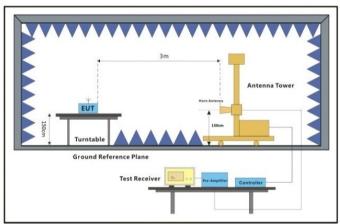
Operating Environment:

Temperature: 23.2 °C Humidity: 52.9 % RH Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description | | | | | | | | |
|--------------------------|--------------|--|--|--|--|--|--|--|--|--|
| Final test | 02 | TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation. | | | | | | | | |

7.9.3 Test Setup Diagram



Above 1GHz



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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 (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 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp 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. As shown in this section, 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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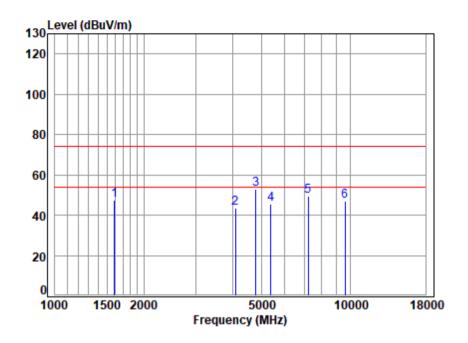


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03229AT Mode : 2402 TX RSE

Note : BLE

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|---------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1592.57 | 3.36 | 26.41 | 38.80 | 56.54 | 47.51 | 74.00 | -26.49 | peak |
| 2 | 4086.18 | 6.37 | 32.97 | 40.37 | 44.60 | 43.57 | 74.00 | -30.43 | peak |
| 3 | 4804.00 | 7.04 | 33.82 | 40.87 | 53.11 | 53.10 | 74.00 | -20.90 | peak |
| 4 | 5377.35 | 7.59 | 34.41 | 41.16 | 44.78 | 45.62 | 74.00 | -28.38 | peak |
| 5 | 7206.00 | 8.52 | 35.80 | 40.47 | 45.54 | 49.39 | 74.00 | -24.61 | peak |
| 6 | 9608.00 | 10.39 | 37.10 | 37.05 | 36.42 | 46.86 | 74.00 | -27.14 | peak |



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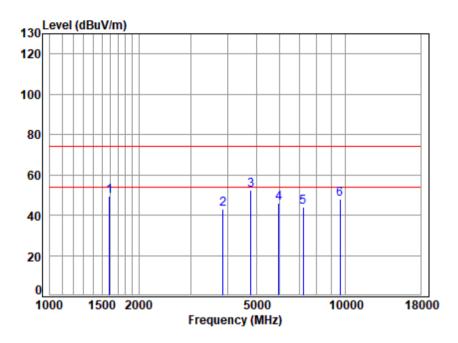


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Mode : 2402 TX RSE

: 03229AT

Note : BLE

| | Freq | | | Preamp Factor | | | | | Remark |
|---|---------|-------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | ——dB | dBuV | dBuV/m | dBuV/m | ——dB | |
| 1 | 1592.57 | 3.36 | 26.41 | 38.80 | 58.46 | 49.43 | 74.00 | -24.57 | peak |
| 2 | 3856.67 | 6.09 | 32.69 | 40.20 | 44.54 | 43.12 | 74.00 | -30.88 | peak |
| 3 | 4804.00 | 7.04 | 33.82 | 40.87 | 52.34 | 52.33 | 74.00 | -21.67 | peak |
| 4 | 5949.81 | 8.12 | 34.90 | 41.38 | 44.45 | 46.09 | 74.00 | -27.91 | peak |
| 5 | 7206.00 | 8.52 | 35.80 | 40.47 | 39.91 | 43.76 | 74.00 | -30.24 | peak |
| 6 | 9608.00 | 10.39 | 37.10 | 37.05 | 37.58 | 48.02 | 74.00 | -25.98 | peak |



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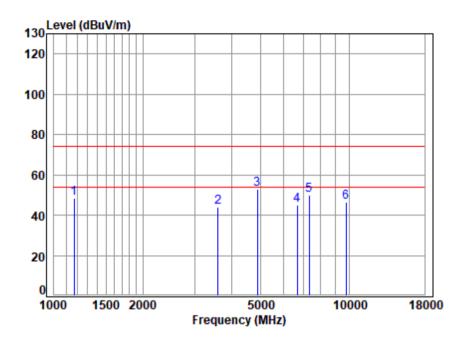


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

: 03229AT

Mode : 2442 TX RSE

: BLE Note

| | Freq | Cable Loss | | Preamp Factor | | | | | Remark |
|---|---------|---------------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1168.92 | 2.75 | 24.28 | 38.54 | 60.01 | 48.50 | 74.00 | -25.50 | peak |
| 2 | 3598.20 | 5.74 | 31.90 | 40.01 | 46.45 | 44.08 | 74.00 | -29.92 | peak |
| 3 | 4884.00 | 7.11 | 34.07 | 40.93 | 52.88 | 53.13 | 74.00 | -20.87 | peak |
| 4 | 6659.76 | 8.27 | 35.60 | 40.86 | 42.11 | 45.12 | 74.00 | -28.88 | peak |
| 5 | 7326.00 | 8.63 | 35.90 | 40.40 | 45.73 | 49.86 | 74.00 | -24.14 | peak |
| 6 | 9768.00 | 10.46 | 37.20 | 36.78 | 35.78 | 46.66 | 74.00 | -27.34 | peak |



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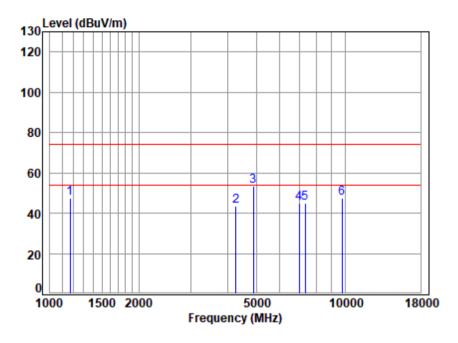


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL

: 03229AT

Mode : 2442 TX RSE

: BLE Note

| | Freq | | | Preamp Factor | | | | | Remark |
|---|---------|-------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1172.30 | 2.75 | 24.29 | 38.54 | 58.91 | 47.41 | 74.00 | -26.59 | peak |
| 2 | 4267.24 | 6.55 | 33.60 | 40.50 | 44.08 | 43.73 | 74.00 | -30.27 | peak |
| 3 | 4884.00 | 7.11 | 34.07 | 40.93 | 53.36 | 53.61 | 74.00 | -20.39 | peak |
| 4 | 6995.17 | 8.32 | 35.79 | 40.60 | 41.67 | 45.18 | 74.00 | -28.82 | peak |
| 5 | 7326.00 | 8.63 | 35.90 | 40.40 | 40.70 | 44.83 | 74.00 | -29.17 | peak |
| 6 | 9768.00 | 10.46 | 37.20 | 36.78 | 36.67 | 47.55 | 74.00 | -26.45 | peak |



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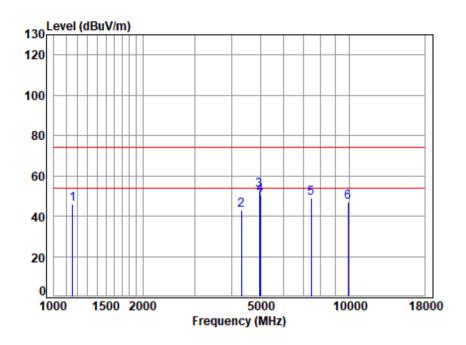


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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 2480 TX RSE

: 03229AT

: BLE Note

Mode

| | Freq | Cable Loss | | Preamp Factor | | | | | Remark |
|---|---------|---------------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1158.83 | 2.73 | 24.24 | 38.53 | 57.71 | 46.15 | 74.00 | -27.85 | peak |
| 2 | 4316.86 | 6.60 | 33.60 | 40.54 | 43.23 | 42.89 | 74.00 | -31.11 | peak |
| 3 | 4960.00 | 7.18 | 34.22 | 40.97 | 52.52 | 52.95 | 74.00 | -21.05 | peak |
| 4 | 5002.50 | 7.21 | 34.29 | 41.00 | 50.12 | 50.62 | 74.00 | -23.38 | peak |
| 5 | 7440.00 | 8.73 | 35.90 | 40.33 | 44.54 | 48.84 | 74.00 | -25.16 | peak |
| 6 | 9920.00 | 10.52 | 37.30 | 36.53 | 35.63 | 46.92 | 74.00 | -27.08 | peak |



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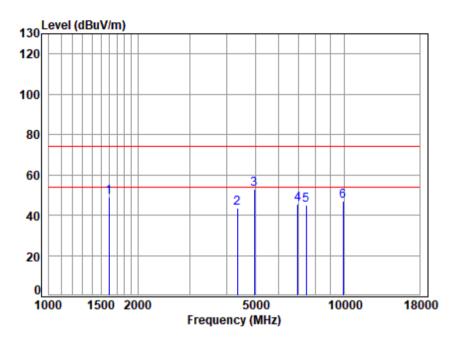


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03229AT

Mode : 2480 TX RSE

Note : BLE

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|---------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1597.18 | 3.37 | 26.47 | 38.81 | 57.76 | 48.79 | 74.00 | -25.21 | peak |
| 2 | 4354.45 | 6.63 | 33.59 | 40.57 | 43.75 | 43.40 | 74.00 | -30.60 | peak |
| 3 | 4960.00 | 7.18 | 34.22 | 40.97 | 52.38 | 52.81 | 74.00 | -21.19 | peak |
| 4 | 6954.85 | 8.31 | 35.71 | 40.63 | 41.96 | 45.35 | 74.00 | -28.65 | peak |
| 5 | 7440.00 | 8.73 | 35.90 | 40.33 | 40.90 | 45.20 | 74.00 | -28.80 | peak |
| 6 | 9920.00 | 10.52 | 37.30 | 36.53 | 35.91 | 47.20 | 74.00 | -26.80 | peak |



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2310003229AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2310003229AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

| | Ant1 | | | | | | | | | |
|------|------------|--------------------|--------------|----------------|-------------------|--------------------------------------|--------------------------|--|--|--|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) | | | |
| | | 2402 | 2.107 | 2.224 | 94.74 | 0.23 | 0.04 | | | |
| 1M | SISO | 2442 | 2.107 | 2.224 | 94.74 | 0.23 | 0.04 | | | |
| | | 2480 | 2.107 | 2.224 | 94.74 | 0.23 | 0.04 | | | |
| | | 2402 | 1.061 | 1.178 | 90.07 | 0.45 | 0.04 | | | |
| 2M | SISO | 2442 | 1.061 | 1.178 | 90.07 | 0.45 | 0.03 | | | |
| | | 2480 | 1.062 | 1.178 | 90.15 | 0.45 | 0.03 | | | |



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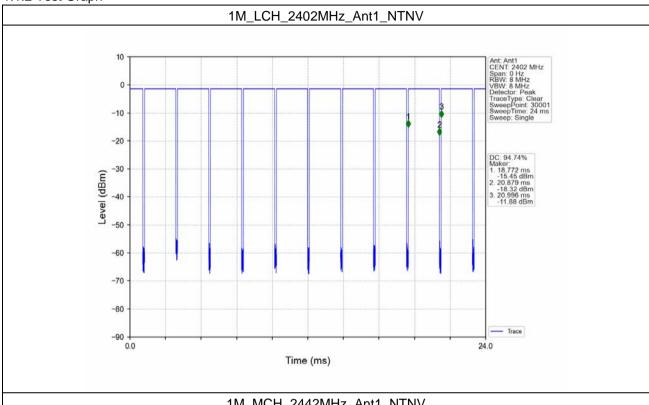


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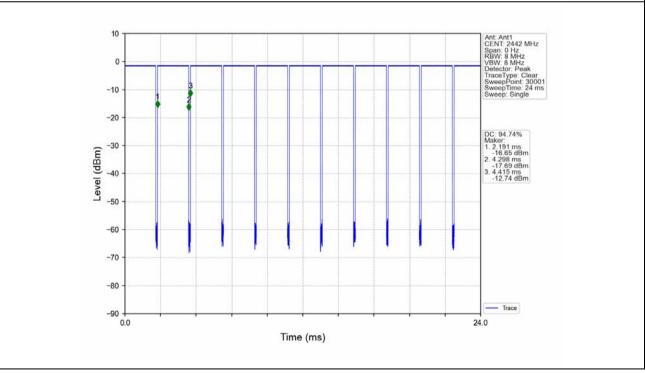
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1.1.2 Test Graph









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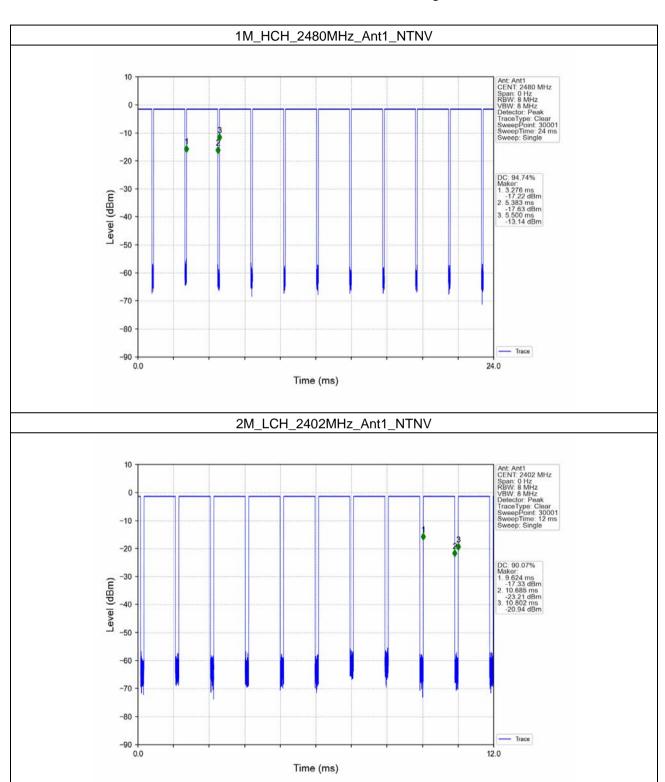
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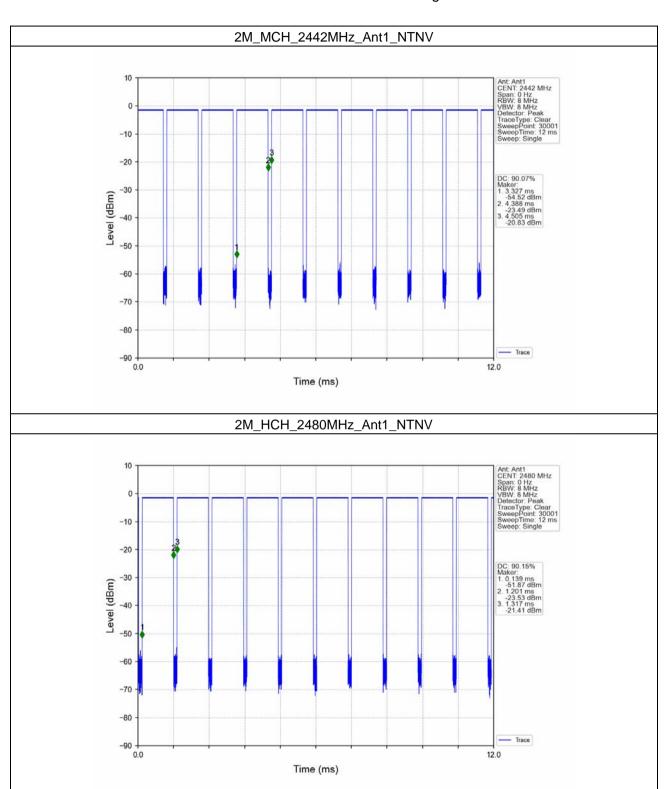
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2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

| Mode | TX | Frequency | ANIT | 6dB Bandv | Mandiat | |
|------|------|-----------|------|-----------|---------|---------|
| | Туре | (MHz) | ANT | Result | Limit | Verdict |
| 1M | SISO | 2402 | 1 | 0.695 | >=0.5 | Pass |
| | | 2442 | 1 | 0.714 | >=0.5 | Pass |
| | | 2480 | 1 | 0.706 | >=0.5 | Pass |
| | SISO | 2402 | 1 | 1.164 | >=0.5 | Pass |
| 2M | | 2442 | 1 | 1.148 | >=0.5 | Pass |
| | | 2480 | 1 | 1.159 | >=0.5 | Pass |



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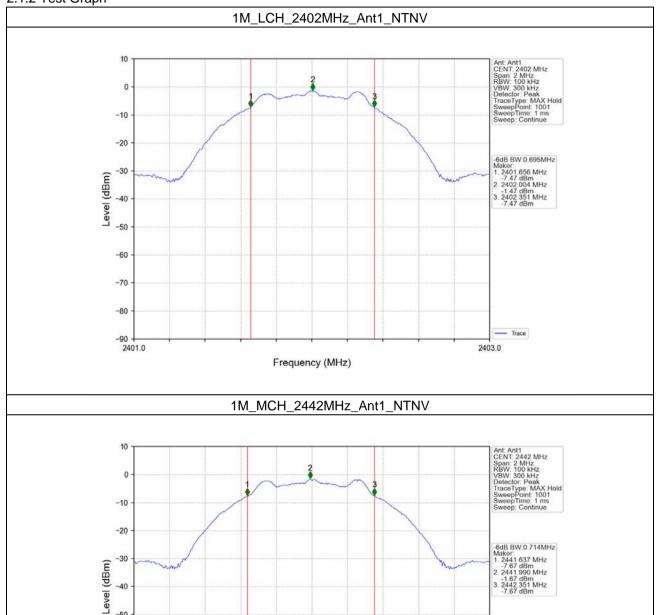


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2.1.2 Test Graph





-50

-60

-70

-80

-90 2441.0

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Frequency (MHz)

Trace

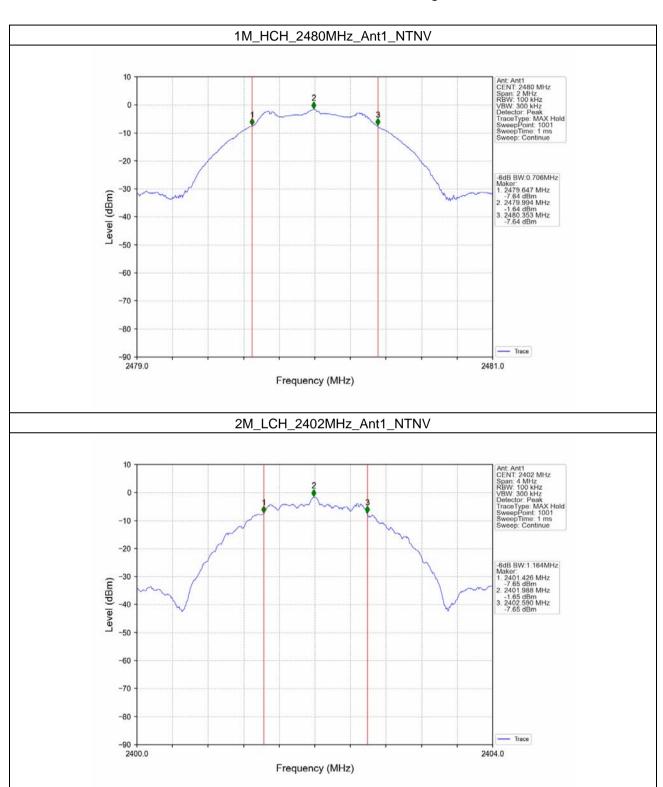
2443.0



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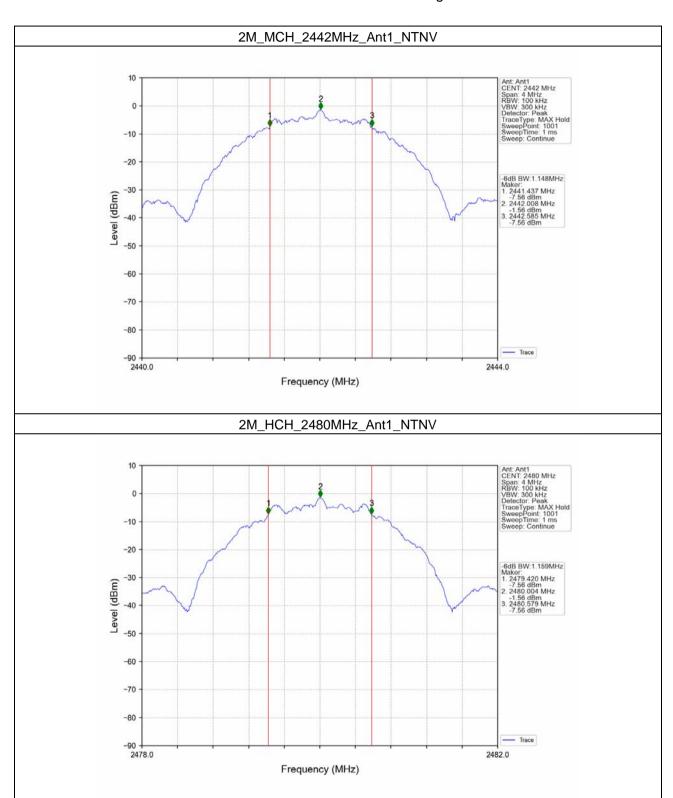
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mada | TX | Frequency | Maximum Peak Conduc | Mandiat | | |
|------|------|-----------|---------------------|---------|---------|--|
| Mode | Туре | (MHz) | ANT1 | Limit | Verdict | |
| 1M | SISO | 2402 | -1.39 | <=30 | Pass | |
| | | 2442 | -1.48 | <=30 | Pass | |
| | | 2480 | -1.55 | <=30 | Pass | |
| | SISO | 2402 | -1.36 | <=30 | Pass | |
| 2M | | 2442 | -1.47 | <=30 | Pass | |
| | | 2480 | -1.51 | <=30 | Pass | |

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

| NA I - | TX | Frequency | Maximum PS | Verdict | |
|--------|------|-----------|------------|------------|------|
| Mode | Type | (MHz) | ANT1 | ANT1 Limit | |
| | | 2402 | -14.21 | <=8 | Pass |
| 1M | SISO | 2442 | -14.09 | <=8 | Pass |
| | | 2480 | -14.42 | <=8 | Pass |
| | SISO | 2402 | -15.64 | <=8 | Pass |
| 2M | | 2442 | -17.36 | <=8 | Pass |
| | | 2480 | -17.55 | <=8 | Pass |



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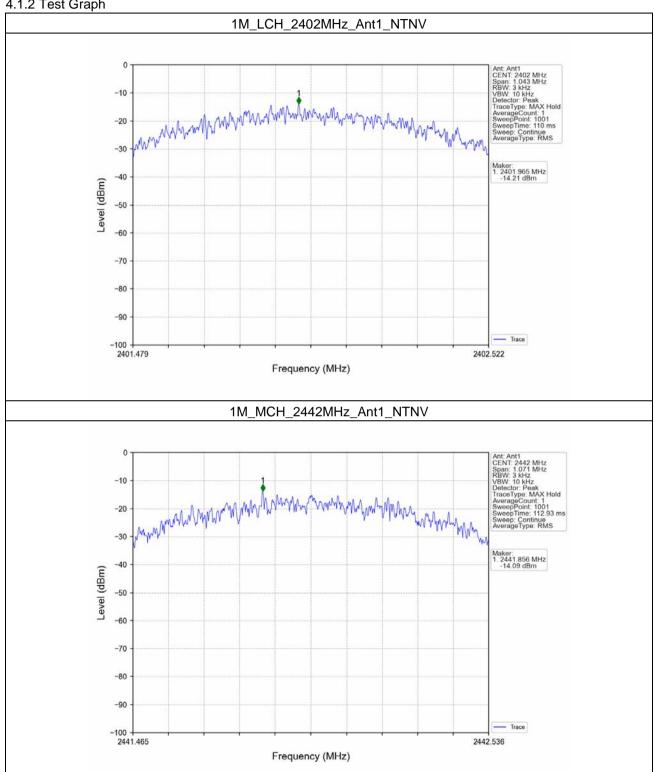


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4.1.2 Test Graph





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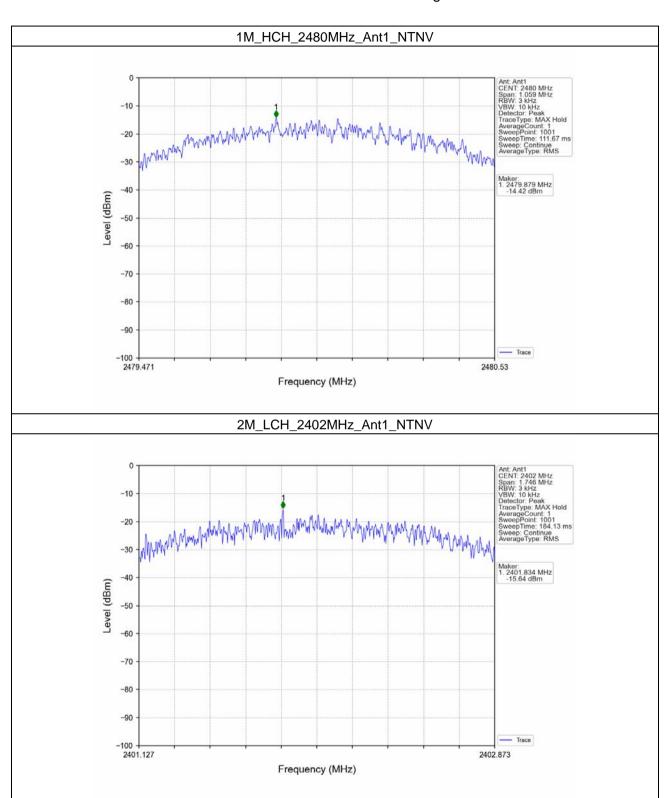
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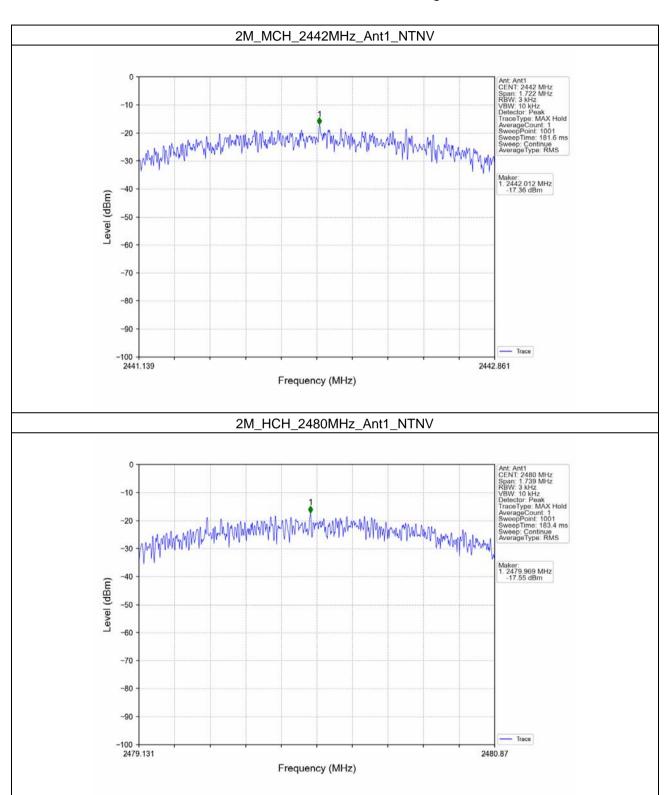
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|------------|--------------------|-----|-----------------------------|
| | | 2402 | 1 | -1.46 |
| 1M | SISO | 2442 | 1 | -1.56 |
| | | 2480 | 1 | -1.63 |
| | SISO | 2402 | 1 | -1.48 |
| 2M | | 2442 | 1 | -1.57 |
| | | 2480 | 1 | -1.60 |



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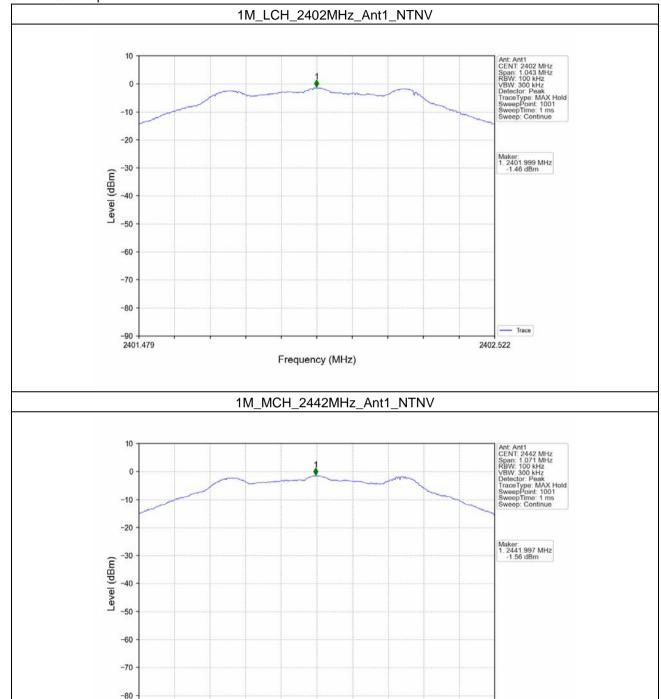


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5.1.2 Test Graph





-90 2441.465

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Frequency (MHz)

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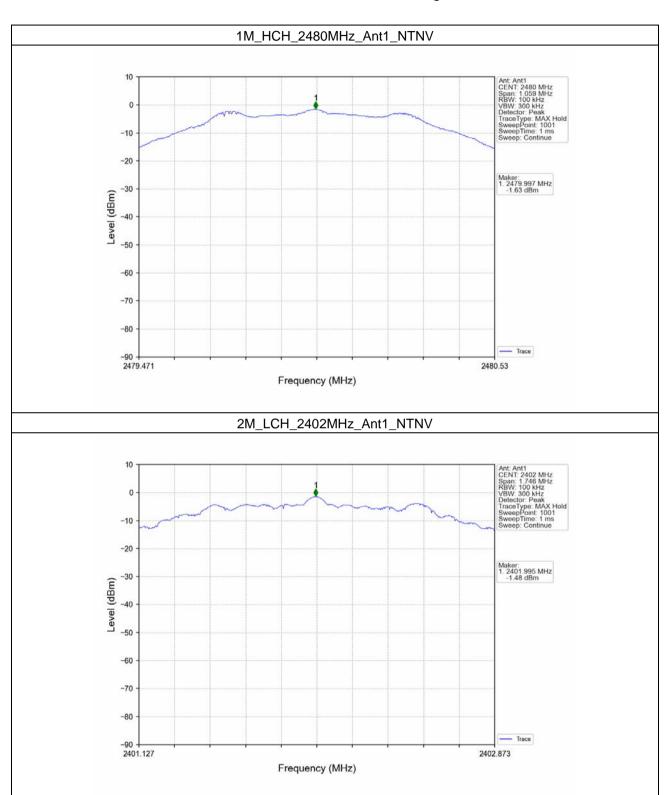
2442.536



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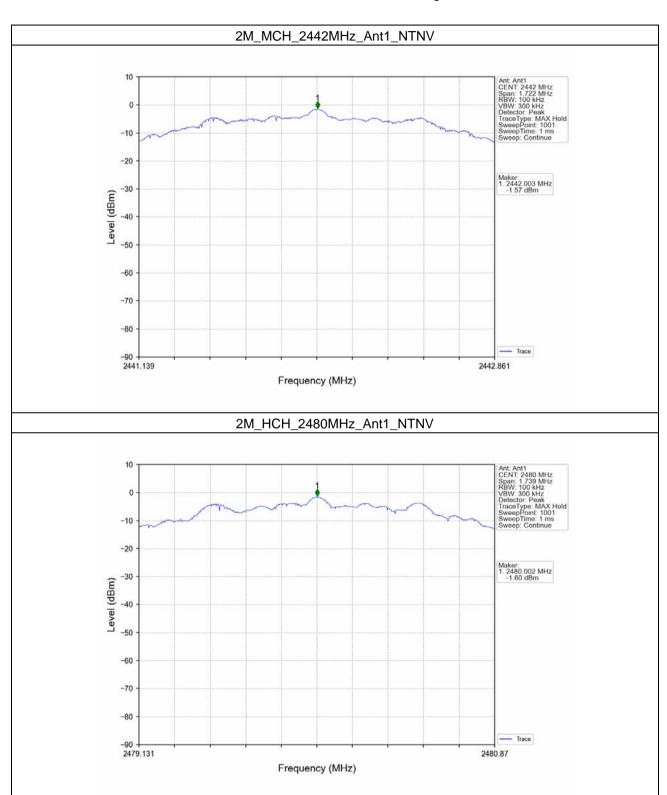
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5.2 CSE

5.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|------------|--------------------|-----|-----------------------------|----------------|---------|
| | | 2402 | 1 | -1.46 | -21.46 | Pass |
| 1M | SISO | 2442 | 1 | -1.46 | -21.46 | Pass |
| | | 2480 | 1 | -1.46 | -21.46 | Pass |
| | SISO | 2402 | 1 | -1.48 | -21.48 | Pass |
| 2M | | 2442 | 1 | -1.48 | -21.48 | Pass |
| | | 2480 | 1 | -1.48 | -21.48 | Pass |



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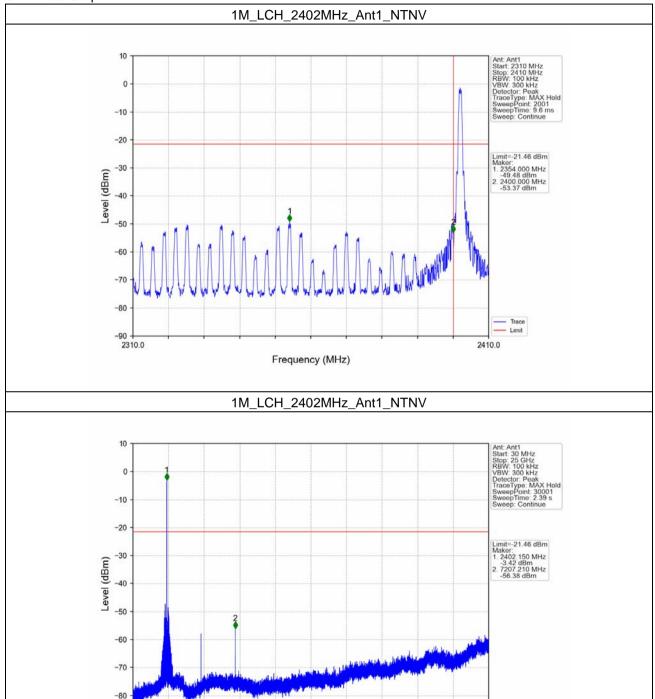


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5.2.2 Test Graph





-90 30.0

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Frequency (MHz)

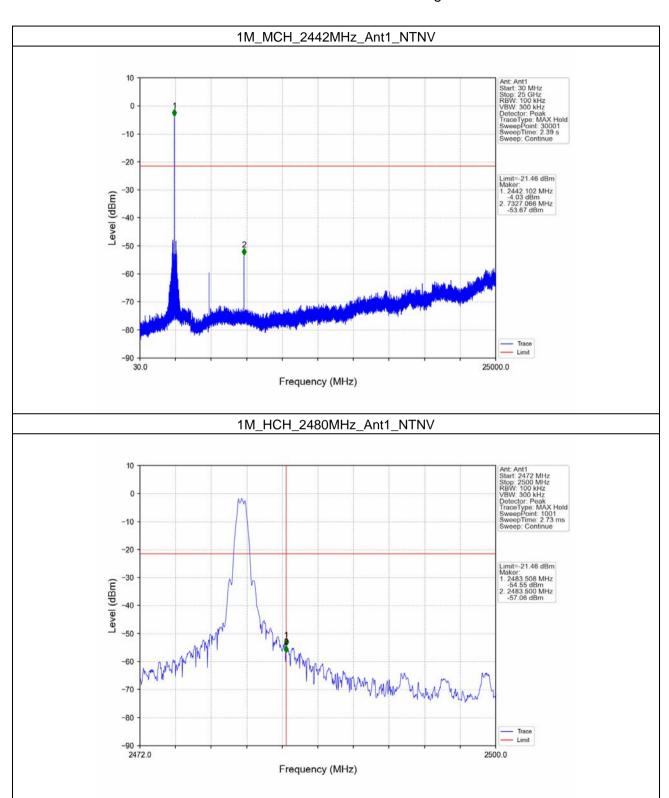
Trace Limit



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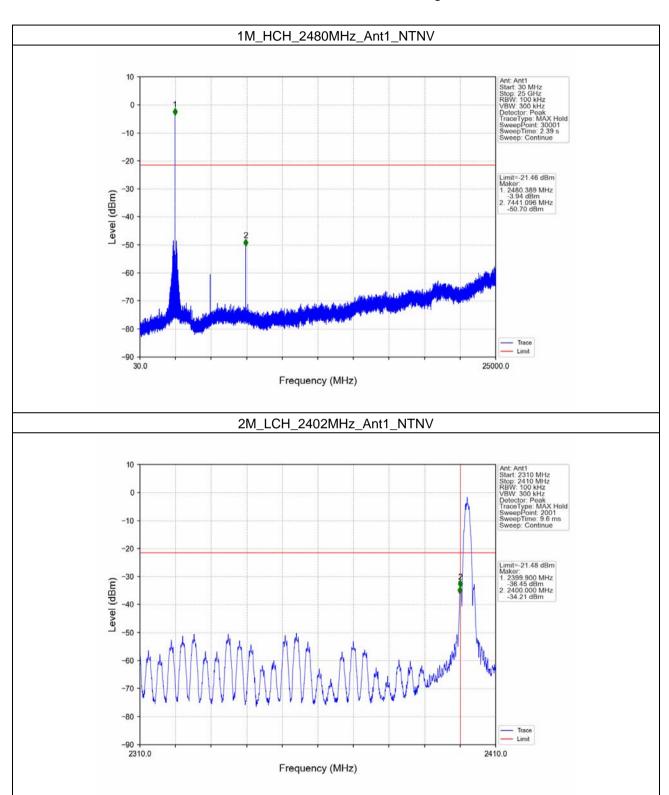
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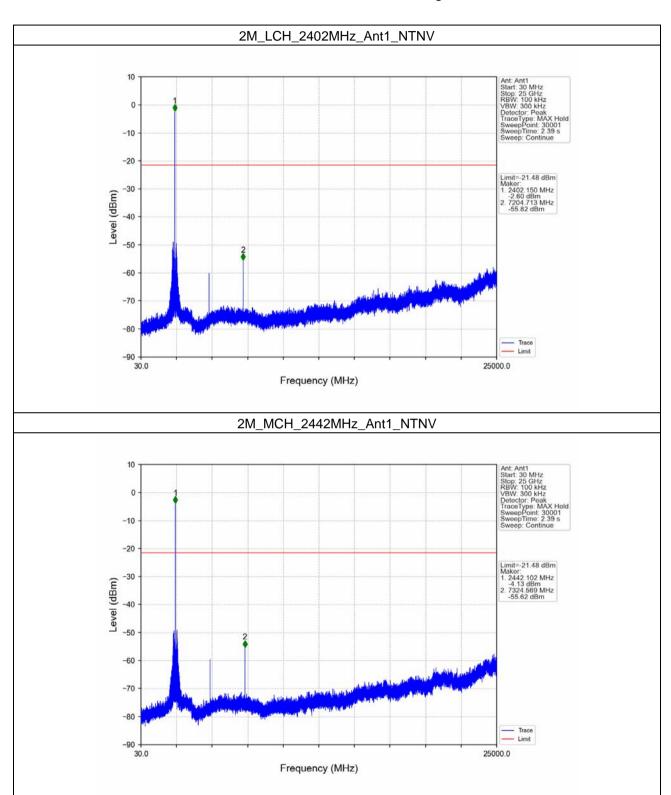
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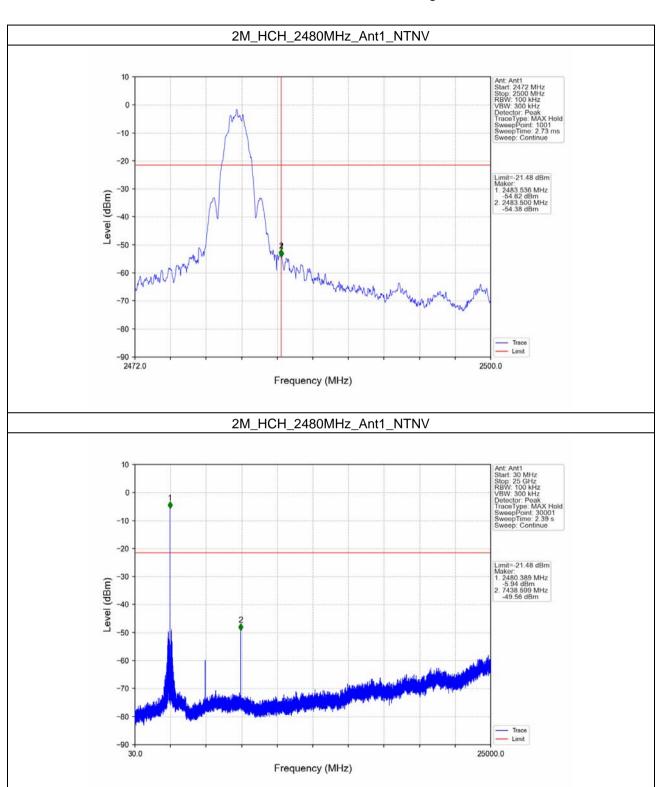
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