

RADIO TEST REPORT FCC ID: 2A3PH-XR-636BP

Product: TURNTABLE Trade Mark: N/A Model No.: KXRM19 Family Model: KXRM19B2, KXRM19R2, XR-636BP Report No.: S24101700701002 Issue Date: Nov. 06, 2024

Prepared for

Axcel (Huizhou) Technology Co., Ltd.

Xinsongyaoyu Industrial Park, Dongming Village,516269 Shatian Town, Huiyang District, Huizhou, Guangdong, China

Prepared by

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ACCREDITED Certificate #4298.01

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Complied

1 TEST RESULT CERTIFICATION

| Applicant's name: | Axcel (Huizhou) Technology Co., Ltd. | | | |
|---|--|------|--|--|
| Address: | Xinsongyaoyu Industrial Park, Dongming Village,516269 Shatian Town, Huiyang District, Huizhou, Guangdong, China | | | |
| Manufacturer's Name: | Axcel (Huizhou) Technology Co., | Ltd. | | |
| Address: | Xinsongyaoyu Industrial Park, Dongming Village,516269 Shatian Town, Huiyang District, Huizhou, Guangdong, China | | | |
| Product description | | | | |
| Product name: | TURNTABLE | | | |
| Trade Mark: | N/A | | | |
| Model and/or type reference: | type reference: KXRM19 | | | |
| Family Model: | Family Model KXRM19B2, KXRM19R2, XR-636BP | | | |
| Test Sample number: S241017007001 | | | | |
| Date (s) of performance of tests | Oct. 24, 2024 ~ Nov. 06, 2024 | | | |
| Measurement Procedure Used: | | | | |
| | APPLICABLE STANDARDS | | | |
| APPLICABLE STANDARD/ TEST PROCEDURE TEST RESULT | | | | |

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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

Aavon Cheng Prepared Yoyo Liang Reviewed :-By :-Approved _ (By [:] By Yoyo Liang Aaron Cheng Alex Li (Project Engineer) (Supervisor) (Manager)

2 SUMMARY OF TEST RESULTS

R

ilac-M

| FCC Part15 (15.247), Subpart C | | | | | | |
|---|--------------------------------|------|--|--|--|--|
| Standard Section Test Item Verdict Remark | | | | | | |
| 15.207 Conducted Emission | | PASS | | | | |
| 15.247 (a)(2) | 6dB Bandwidth | PASS | | | | |
| 15.247 (b) Peak Output Power | | PASS | | | | |
| 15.209 (a) 15.205 (a) | | | | | | |
| 15.247 (e) | Power Spectral Density | PASS | | | | |
| 15.247 (d) | Band Edge Emission | PASS | | | | |
| 15.247 (d) | Spurious RF Conducted Emission | PASS | | | | |
| 15.203 | Antenna Requirement | PASS | | | | |

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Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.





FACILITIES AND ACCREDITATIONS 3

FACILITIES 3.1

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

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3.2 LABORATORY ACCREDITATIONS AND LISTINGS

| Site Description | |
|---|----------|
| CNAS-Lab. : The Certificate Registration Number is L5516. | |
| IC-Registration The Certificate Registration Number is 9270A. | |
| CAB identifier:CN0074 | |
| FCC- Accredited Test Firm Registration Number: 463705. | |
| Designation Number: CN1184 | |
| A2LA-Lab. The Certificate Registration Number is 4298.01 | |
| This laboratory is accredited in accordance with the recognize | d |
| International Standard ISO/IEC 17025:2005 General requirem | ents for |
| the competence of testing and calibration laboratories. | |
| This accreditation demonstrates technical competence for a d | efined |
| scope and the operation of a laboratory quality management s | system |
| (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 200 |)9). |
| Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd. | |
| Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixi | ang |
| Street, Bao'an District, Shenzhen 518126 P.R. China. | |

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|-------------------------------------|-------------|
| 1 | Conducted Emission Test | ±2.80dB |
| 2 | RF power, conducted | ±0.16dB |
| 3 | Spurious emissions, conducted | ±0.21dB |
| 4 | All emissions, radiated(30MHz~1GHz) | ±2.64dB |
| 5 | All emissions, radiated(1GHz~6GHz) | ±2.40dB |
| 6 | All emissions, radiated(>6GHz) | ±2.52dB |
| 7 | Temperature | ±0.5°C |
| 8 | Humidity | ±2% |
| 9 | All emissions, radiated(9KHz~30MHz) | ±6dB |
| 10 | Occupied bandwidth | ±3.7dB |



4 GENERAL DESCRIPTION OF EUT

| Product Feature and Specification | | | | |
|---|--|--|--|--|
| Equipment TURNTABLE | | | | |
| Trade Mark N/A | | | | |
| FCC ID 2A3PH-XR-636BP | | | | |
| Model No. | KXRM19 | | | |
| Family Model | KXRM19B2, KXRM19R2, XR-636BP | | | |
| Model Difference | All models are the same circuit and RF module, except for model names, appearances and colors. | | | |
| Operating Frequency | BLE 1M: 2402~2480 MHz BLE 2M: 2402~2480 MHz | | | |
| Modulation GFSK | | | | |
| Number of Channels | 40 Channels | | | |
| Antenna Type PCB Antenna | | | | |
| Antenna Gain -0.58 dBi | | | | |
| Adapter Model: FJ-SW112S0501000U Input: 100-240V~50/60Hz 0.4A 96W MAX Output: 5.0V1.0A 5.0W | | | | |
| Battery | N/A | | | |
| Power supply DC 5V/1A from adapter | | | | |
| Hardware version: | XR-636BP-8 MAIN Board PM2 | | | |
| Firmware version: | N/A | | | |
| Software version: | 636DP-8-V12_55F_KXRM19 | | | |

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.





Revision History

| | Revision history | | | | |
|-----------------|------------------|-------------------------|---------------|--|--|
| Report No. | Version | Description | Issued Date | | |
| S24101700701002 | Rev.01 | Initial issue of report | Nov. 06, 2024 | | |
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5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps/2Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

| Channel | Frequency(MHz) |
|---------|----------------|
| 0 | 2402 |
| 1 | 2404 |
| | |
| 19 | 2440 |
| 20 | 2442 |
| | |
| 38 | 2478 |
| 39 | 2480 |

Note: fc=2402MHz+k×2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

| Test Cases | | | |
|--------------------------|--|--|--|
| Test Item | Data Rate/ Modulation | | |
| AC Conducted Emission | N/A | | |
| | Mode 1: normal link mode | | |
| Radiated Test | Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps | | |
| Cases | Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps | | |
| | Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps | | |
| Conducted Test | Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps | | |
| Conducted Test Cases | Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps | | |
| Cases | Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps | | |

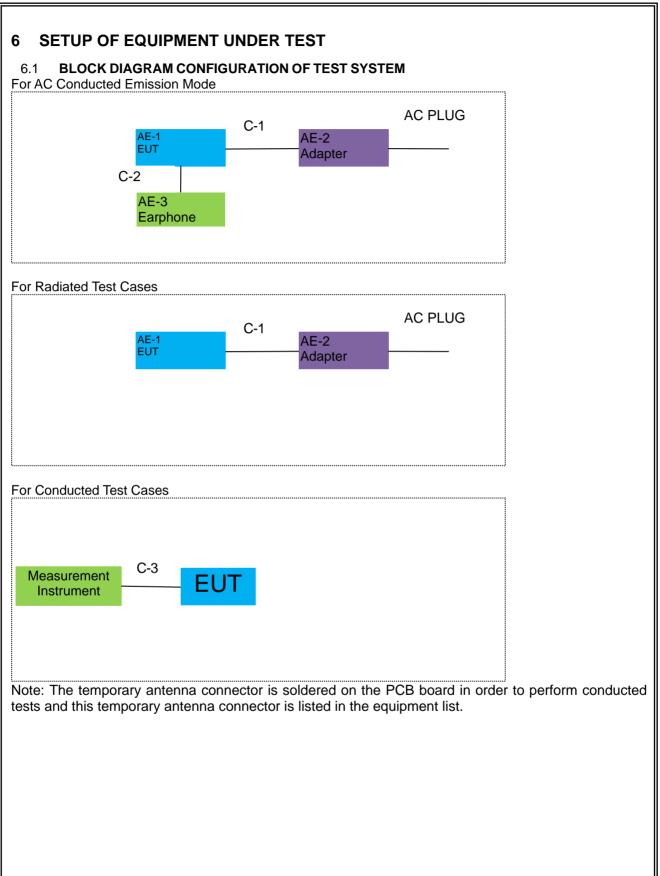
Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)

2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

Report No.: S24101700701002



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6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Model/Type No. | Series No. | Note |
|------------------|----------------------|-------------------|------------|-------------|
| EUT | EUT TURNTABLE KXRM19 | | N/A | N/A |
| AE-1 Adapter FJ- | | FJ-SW112S0501000U | N/A | Peripherals |
| AE-3 Earphone | | N/A | N/A | Peripherals |
| | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|----------------|---------------|--------------|--------|
| C-1 | USB Cable | NO | NO | 1.0m |
| C-2 | Earphone Cable | NO | NO | 1.2m |
| C-3 | RF Cable | YES | NO | 0.1m |
| | | | | |
| | | | | |

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibrati on period |
|------|---|-----------------|-----------------|-------------------|------------------|---------------------|---------------------------|
| 1 | Spectrum Analyzer | Agilent | E4440A | MY41000130 | 2024.04.26 | 2025.04.25 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2024.04.25 | 2025.04.24 | 1 year |
| 3 | Spectrum Analyzer | R&S | FSV40 | 101417 | 2024.04.25 | 2025.04.24 | 1 year |
| 4 | Test Receiver | R&S | ESPI7 | 101318 | 2024.04.26 | 2025.04.25 | 1 year |
| 5 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2024.05.12 | 2025.05.11 | 1 year |
| 6 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200983705 | 2024.04.26 | 2027.04.25 | 3 year |
| 7 | Horn Antenna | EM | EM-AH-1018 0 | 2011071402 | 2024.05.12 | 2027.05.11 | 3 year |
| 8 | Broadband Horn Antenna | SCHWARZBE CK | BBHA 9170 | 803 | 2024.05.12 | 2027.05.11 | 3 year |
| 9 | Amplifier | EMC | EMC051835 SE | 980246 | 2024.04.25 | 2025.04.24 | 1 year |
| 10 | Active Loop Antenna | SCHWARZBE CK | FMZB 1519 B | 055 | 2024.05.17 | 2027.05.16 | 3 year |
| 11 | Power Meter | DARE | RPR3006W | 15I00041SN 084 | 2024.04.25 | 2025.04.24 | 1 year |
| 12 | Test Cable (9KHz-30MHz) | N/A | R-01 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 13 | Test Cable (30MHz-1GHz) | N/A | R-02 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 14 | High Test Cable(1G-40G Hz) | N/A | R-03 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 15 | Filter | TRILTHIC | 2400MHz | 29 | 2024.04.26 | 2027.04.25 | 3 year |
| 16 | temporary antenna connector (Note) | NTS | R001 | N/A | N/A | N/A | N/A |

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



| AC Co | AC Conduction Test equipment | | | | | | |
|-------|--------------------------------|-----------------|-----------|------------|------------------|---------------------|--------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
| 1 | Test Receiver | R&S | ESCI | 101160 | 2024.03.12 | 2025.03.11 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2024.03.12 | 2025.03.11 | 1 year |
| 3 | LISN | SCHWARZBE CK | NNLK 8129 | 8129245 | 2024.03.12 | 2025.03.11 | 1 year |
| 4 | 50Ω Coaxial Switch | ANRITSU CORP | MP59B | 6200983704 | 2024.04.26 | 2027.04.25 | 3 year |
| 5 | Test Cable (9KHz-30MH z) | N/A | C01 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 6 | Test Cable (9KHz-30MH z) | N/A | C02 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 7 | Test Cable (9KHz-30MH z) | N/A | C03 | N/A | 2023.05.06 | 2026.05.05 | 3 year |

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Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Measurement Software

| Item | Manufacturer | Software Name | Software Version | Description |
|------|--------------|----------------------|------------------|-------------------|
| 1 | MWRFtest | MTS 8310 2.4GHz/5GHz | 2.0 | RF Conducted Test |
| 2 | Farad | EZ-EMC_RE | AIT-03A | RadiatedTest |
| 3 | raditeq | RadiMation | 2023.1.3 | RadiatedTest |
| 4 | Farad | EZ-EMC_CE | AIT-03A | AC Conducted Test |



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

| | Conducted | d Emission Limit |
|----------------|------------|------------------|
| Frequency(MHz) | Quasi-peak | Average |
| 0.15-0.5 | 66-56* | 56-46* |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |

Note: 1. *Decreases with the logarithm of the frequency

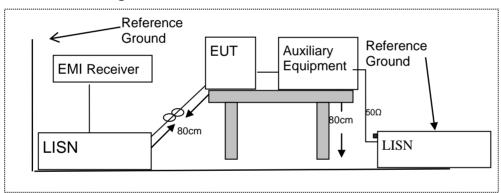
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support
 equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the
 measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



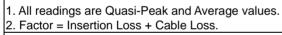


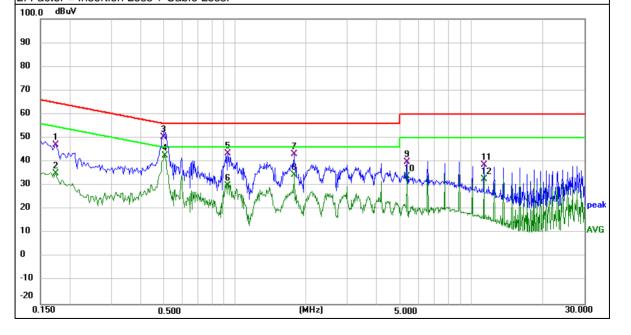
7.1.6 Test Results

| EUT: | TURNTABLE | Model Name : | KXRM19 |
|----------------|---------------------------------|--------------------|--------|
| Temperature: | 22 °C | Relative Humidity: | 57% |
| | | Phase : | L |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Demerik |
|-----------|---------------|----------------|--------------|--------|--------|---------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.1740 | 37.07 | 10.04 | 47.11 | 64.77 | -17.66 | QP |
| 0.1740 | 25.06 | 10.04 | 35.10 | 54.77 | -19.67 | AVG |
| 0.5020 | 39.72 | 10.68 | 50.40 | 56.00 | -5.60 | QP |
| 0.5060 | 31.90 | 10.70 | 42.60 | 46.00 | -3.40 | AVG |
| 0.9300 | 31.79 | 11.59 | 43.38 | 56.00 | -12.62 | QP |
| 0.9380 | 18.48 | 11.61 | 30.09 | 46.00 | -15.91 | AVG |
| 1.7780 | 29.72 | 13.35 | 43.07 | 56.00 | -12.93 | QP |
| 1.7780 | 21.13 | 13.35 | 34.48 | 46.00 | -11.52 | AVG |
| 5.3420 | 29.80 | 10.15 | 39.95 | 60.00 | -20.05 | QP |
| 5.3420 | 23.61 | 10.15 | 33.76 | 50.00 | -16.24 | AVG |
| 11.2739 | 38.73 | -0.16 | 38.57 | 60.00 | -21.43 | QP |
| 11.2739 | 32.88 | -0.16 | 32.72 | 50.00 | -17.28 | AVG |

Remark:





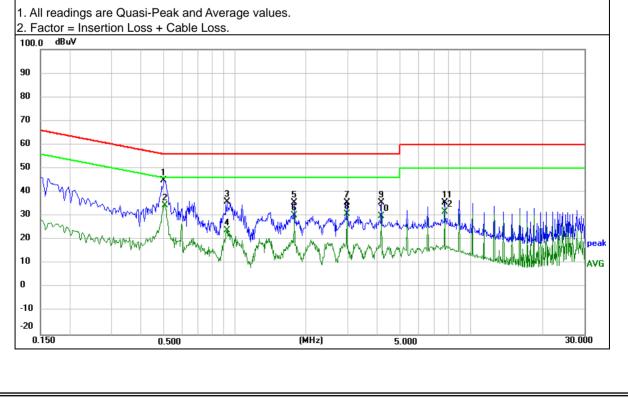




| EUT: | TURNTABLE | Model Name : | KXRM19 |
|----------------|---------------------------------|--------------------|--------|
| Temperature: | 22 ℃ | Relative Humidity: | 57% |
| Pressure: | | | Ν |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.5020 | 35.04 | 9.97 | 45.01 | 56.00 | -10.99 | peak |
| 0.5060 | 24.59 | 9.99 | 34.58 | 46.00 | -11.42 | AVG |
| 0.9260 | 25.14 | 10.86 | 36.00 | 56.00 | -20.00 | peak |
| 0.9260 | 13.20 | 10.86 | 24.06 | 46.00 | -21.94 | AVG |
| 1.7820 | 22.93 | 12.61 | 35.54 | 56.00 | -20.46 | peak |
| 1.7820 | 17.65 | 12.61 | 30.26 | 46.00 | -15.74 | AVG |
| 2.9700 | 26.59 | 9.14 | 35.73 | 56.00 | -20.27 | peak |
| 2.9700 | 21.63 | 9.14 | 30.77 | 46.00 | -15.23 | AVG |
| 4.1540 | 26.30 | 9.25 | 35.55 | 56.00 | -20.45 | peak |
| 4.1540 | 20.83 | 9.25 | 30.08 | 46.00 | -15.92 | AVG |
| 7.7180 | 25.91 | 9.70 | 35.61 | 60.00 | -24.39 | peak |
| 7.7180 | 22.09 | 9.70 | 31.79 | 50.00 | -18.21 | AVG |

Remark:





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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)). According to FCC Part15.205, Restricted bands

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| MHz | MHz | GHz | |
|---------------------|---|--|--|
| 16.42-16.423 | 399.9-410 | 4.5-5.15 | |
| 16.69475-16.69525 | 608-614 | 5.35-5.46 | |
| 16.80425-16.80475 | 960-1240 | 7.25-7.75 | |
| 25.5-25.67 | 1300-1427 | 8.025-8.5 | |
| 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | |
| 73-74.6 | 1645.5-1646.5 | 9.3-9.5 | |
| 74.8-75.2 | 1660-1710 | 10.6-12.7 | |
| 123-138 | 2200-2300 | 14.47-14.5 | |
| 149.9-150.05 | 2310-2390 | 15.35-16.2 | |
| 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 | |
| 156.7-156.9 | 2690-2900 | 22.01-23.12 | |
| 162.0125-167.17 | 3260-3267 | 23.6-24.0 | |
| 167.72-173.2 | 3332-3339 | 31.2-31.8 | |
| 240-285 | 3345.8-3358 | 36.43-36.5 | |
| 322-335.4 | 3600-4400 | (2) | |
| | | | |
| | 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285 | 16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358 | |

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Restricted Frequency(MHz) | Field Strength (µV/m) | Field Strength (dBµV/m) | Measurement Distance |
|------------------------------|-----------------------|-------------------------|----------------------|
| 0.009~0.490 | 2400/F(KHz) | 20 log (uV/m) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 20 log (uV/m) | 30 |
| 1.705~30.0 | 30 | 29.5 | 30 |
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Limits of Radiated Emission Measurement(Above 1000MHz)

| | Class B (dBuV/m) (at 3M) | | |
|----------------|--------------------------|---------|--|
| Frequency(MHz) | PEAK | AVERAGE | |
| Above 1000 | 74 | 54 | |

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB);



Limit line=Specific limits(dBuV) + distance extrapolation factor.

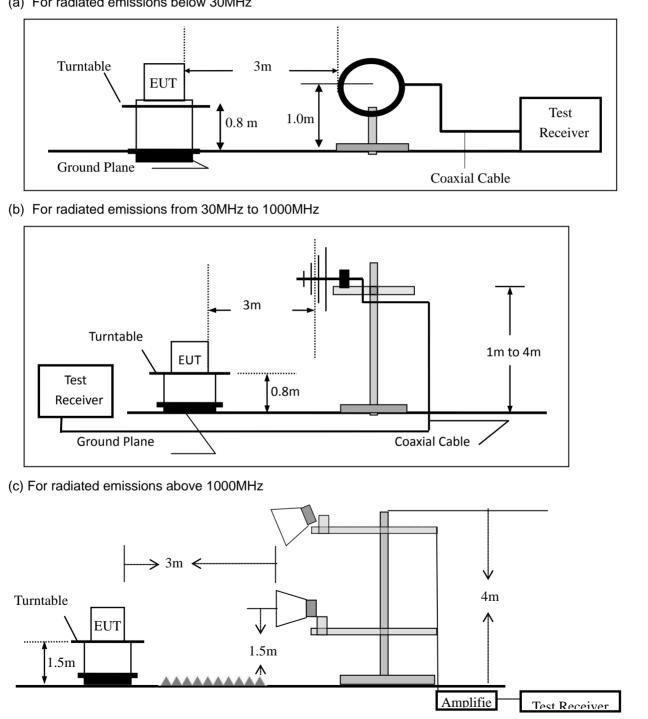
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7.2.3 **Measuring Instruments**

The Measuring equipment is listed in the section 6.3 of this test report.

Test Configuration 7.2.4

(a) For radiated emissions below 30MHz







7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

| Spectrum Parameter | Setting |
|---------------------------------------|--|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average |

| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000 | QP | 120 kHz | 300 kHz |
| Above 4000 | Peak | 1 MHz | 1 MHz |
| Above 1000 | Average | 1 MHz | 1 MHz |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

| | Spurious | Emission | below | 30MHz | (9KHz to 30MHz) |
|--|----------|----------|-------|-------|-----------------|
|--|----------|----------|-------|-------|-----------------|

| EUT: | TURNTABLE | Model No.: | KXRM19 |
|--------------|-----------------------------|--------------------|------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Lest Mode. | Mode1/Mode2/Mode3/ Mode4 | Test By: | Yoyo Liang |

| Freq. | Ant.Pol. | Emission L | .evel(dBuV/m) | Limit 3 | m(dBuV/m) | Over(dB) | | |
|-------|----------|------------|---------------|---------|-----------|----------|----|--|
| (MHz) | H/V | PK | AV | PK | AV | PK | AV | |
| | | | | | | | | |

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

| EUT: | TURNTABLE | Model Name : | KXRM19 |
|----------------|-------------|--------------------|--------------------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Pressure: | 1010hPa | Test Mode: | Mode 4(GFSK 1Mbps) |
| Test Voltage : | DC 5V | | |

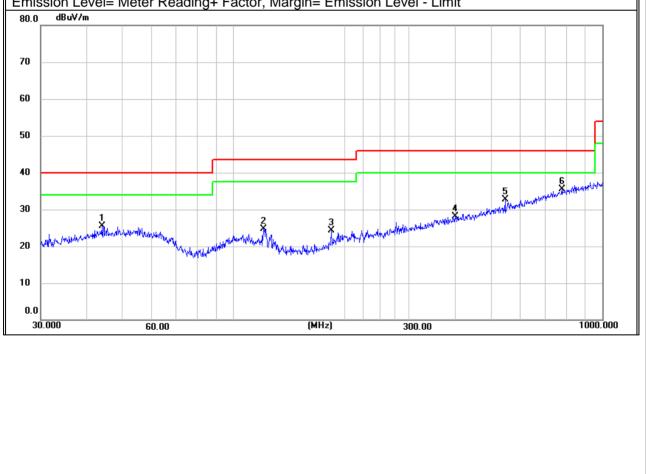
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| Polar | Frequency | requency Meter Reading Factor Emission Level | | Limits | Margin | Remark | |
|-------|-----------|--|-------|----------|---------------|--------|------|
| (H/V) | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) (dB) | | |
| V | 43.9658 | 5.99 | 19.45 | 25.44 | 40.00 | -14.56 | peak |
| V | 120.6991 | 8.82 | 15.97 | 24.79 | 43.50 | -18.71 | peak |
| V | 184.4898 | 7.64 | 16.73 | 24.37 | 43.50 | -19.13 | peak |
| V | 399.0302 | 5.21 | 22.94 | 28.15 | 46.00 | -17.85 | peak |
| V | 545.1826 | 7.29 | 25.46 | 32.75 | 46.00 | -13.25 | peak |
| V | 776.8778 | 6.13 | 29.36 | 35.49 | 46.00 | -10.51 | peak |

Remark:







Report No.: S24101700701002

| Polar | Frequ | iency | | leter ading | Factor | Emissio Level | n Limi | ts Margin | Remark | |
|---------------|----------------------|-----------|----------------------|----------------|---------------------------------|--------------------|----------------|---|------------------|--|
| (H/V) | (MI | Ηz) | (dl | BuV) | (dB) | (dBuV/n | n) (dBuV | /m) (dB) | | |
| Н | 48.8 | 429 | 5 | 5.96 | 19.75 | 25.71 | 40.0 | 0 -14.29 | peak | |
| Н | 103.0 | 0080 | 5 | 5.99 | 18.10 | 24.09 | 43.5 | -19.41 | peak | |
| Н | 207. | 1226 | 9 | .58 | 18.17 | 27.75 | 43.5 | -15.75 | peak | |
| Н | 393.4 | 4723 | 5 | 5.84 | 22.82 | 28.66 | 46.0 | 0 -17.34 | peak | |
| Н | 499.4 | 4247 | 7 | '.44 | 24.58 | 32.02 | 46.0 | -13.98 | peak | |
| Н | 845.0 | 0878 | 6 | 6.83 | 30.22 | 37.05 | 46.0 | 0 -8.95 | peak | |
| | | Meter | Readir | ng+ Fac | ctor, Margir | <u>ı= Emissior</u> | n Level - Limi | it | | |
| 70 | | | | | | | | | | |
| 60 | | | | | | | | | | |
| 50 | | | | | | | | | | |
| 40 | | | | | | | | | 5 Junitor wilder | |
| 30 | | 1 | | 2 | | | 4 | Stand and a | | |
| 20 //// | regeller Alexandrean | ማርማጥራላትሌላ | Monadore and a start | Umm Martha | Makay manager and a strategy of | what a what | Awadawa | | | |
| 10 | | | | | | | | | | |
| 0.0 30.000 | | | | | | (40-) | 200.00 | | 1000.000 | |
| 30.000 | | 60. | 00 | | | (MHz) | 300.00 | | 1000.000 | |

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| EUT: | | TURNTAE | BLE | Ν | Nodel No.: | | KXRM19 | KXRM19 | | | |
|---------------------------------------|---------------|---------------|-------------------|-----------------|----------------|----------|------------|--------|------------|--|--|
| Temperatu | re: | 20 °C | | F | Relative Humi | dity: | 48% | | | | |
| Test Mode: Mode2/Mode3/Mode4 Test By: | | | | | | | Yoyo Liang | | | | |
| | | · | | | | | | | | | |
| Frequency | Read Level | Cable loss | Antenna Factor | Pream Factor | | Limits | Margin | Remark | Comment | | |
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | (dBµV/m) | (dBµV/n | n) (dB) | | | | |
| Low Channel (2402 MHz)(GFSK)Above 1G | | | | | | | | | | | |
| 4804.54 | 69.30 | 5.21 | 35.59 | 44.30 | 65.80 | 74.00 | -8.20 | Pk | Vertical | | |
| 4804.54 | 51.24 | 5.21 | 35.59 | 44.30 |) 47.74 | 54.00 | -6.26 | AV | Vertical | | |
| 7206.62 | 71.17 | 6.48 | 36.27 | 44.60 | 69.32 | 74.00 | -4.68 | Pk | Vertical | | |
| 7206.62 | 45.62 | 6.48 | 36.27 | 44.60 | 43.77 | 54.00 | -10.23 | AV | Vertical | | |
| 4804.55 | 70.13 | 5.21 | 35.55 | 44.30 | 66.59 | 74.00 | -7.41 | Pk | Horizontal | | |
| 4804.55 | 46.34 | 5.21 | 35.55 | 44.30 | 42.80 | 54.00 | -11.20 | AV | Horizontal | | |
| 7206.61 | 69.79 | 6.48 | 36.27 | 44.52 | 68.02 | 74.00 | -5.98 | Pk | Horizontal | | |
| 7206.61 | 49.59 | 6.48 | 36.27 | 44.52 | 47.82 | 54.00 | -6.18 | AV | Horizontal | | |
| Mid Channel (2440 MHz)(GFSK)Above 1G | | | | | | | | | | | |
| 4880.57 | 71.25 | 5.21 | 35.66 | 44.20 | 67.92 | 74.00 | -6.08 | Pk | Vertical | | |
| 4880.57 | 46.50 | 5.21 | 35.66 | 44.20 | 43.17 | 54.00 | -10.83 | AV | Vertical | | |
| 7320.66 | 69.73 | 7.10 | 36.50 | 44.43 | 68.90 | 74.00 | -5.10 | Pk | Vertical | | |
| 7320.66 | 50.63 | 7.10 | 36.50 | 44.43 | 49.80 | 54.00 | -4.20 | AV | Vertical | | |
| 4880.36 | 70.91 | 5.21 | 35.66 | 44.20 | 67.58 | 74.00 | -6.42 | Pk | Horizontal | | |
| 4880.36 | 50.55 | 5.21 | 35.66 | 44.20 | 47.22 | 54.00 | -6.78 | AV | Horizontal | | |
| 7320.78 | 70.87 | 7.10 | 36.50 | 44.43 | 3 70.04 | 74.00 | -3.96 | Pk | Horizontal | | |
| 7320.78 | 50.78 | 7.10 | 36.50 | 44.43 | 49.95 | 54.00 | -4.05 | AV | Horizontal | | |
| | | | High (| Channel (| 2480 MHz)(GFSI | <) Above | 1G | | | | |
| 4960.45 | 69.08 | 5.21 | 35.52 | 44.21 | 65.60 | 74.00 | -8.40 | Pk | Vertical | | |
| 4960.45 | 45.92 | 5.21 | 35.52 | 44.21 | 42.44 | 54.00 | -11.56 | AV | Vertical | | |
| 7440.75 | 70.15 | 7.10 | 36.53 | 44.60 | 69.18 | 74.00 | -4.82 | Pk | Vertical | | |
| 7440.75 | 49.35 | 7.10 | 36.53 | 44.60 | 48.38 | 54.00 | -5.62 | AV | Vertical | | |
| 4960.57 | 68.94 | 5.21 | 35.52 | 44.21 | 65.46 | 74.00 | -8.54 | Pk | Horizontal | | |
| 4960.57 | 47.41 | 5.21 | 35.52 | 44.21 | 43.93 | 54.00 | -10.07 | AV | Horizontal | | |
| 7440.53 | 69.75 | 7.10 | 36.53 | 44.60 | 68.78 | 74.00 | -5.22 | Pk | Horizontal | | |
| 7440.53 | 48.50 | 7.10 | 36.53 | 44.60 | 47.53 | 54.00 | -6.47 | AV | Horizontal | | |

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst





| EUT: | TURNT | ABLE | | Mode | el No.: | K | XRM1 | 9 | | |
|--------------|--------------------------|---------------|-------------------|------------------|-------------------|-------|---------|---------|----------|------------|
| Temperature: | 20 °C | | | Relat | ive Humidit | y: 48 | 8% | | | |
| Fest Mode: | st Mode: Mode2/ Mode4 Te | | | | By: | Y | oyo Lia | ang | | |
| | | | | | | | | | | |
| Frequency | Meter Reading | Cable Loss | Antenna Factor | Preamp Factor | Emission Level | Limit | s N | /largin | Detector | Comment |
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | dB) (dBµV/m) | | /m) | (dB) | Туре | |
| | | | | 1Mbp | s(GFSK) | | | | | |
| 2310.00 | 69.74 | 2.97 | 27.80 | 43.80 | 56.71 | 74 | - | 17.29 | Pk | Horizontal |
| 2310.00 | 48.57 | 2.97 | 27.80 | 43.80 | 35.54 | 54 | - | 18.46 | AV | Horizontal |
| 2310.00 | 69.78 | 2.97 | 27.80 | 43.80 | 56.75 | 74 | - | 17.25 | Pk | Vertical |
| 2310.00 | 47.94 | 2.97 | 27.80 | 43.80 | 34.91 | 54 | - | 19.09 | AV | Vertical |
| 2390.00 | 71.29 | 3.14 | 27.21 | 43.80 | 57.84 | 74 | - | 16.16 | Pk | Vertical |
| 2390.00 | 51.13 | 3.14 | 27.21 | 43.80 | 37.68 | 54 | - | 16.32 | AV | Vertical |
| 2390.00 | 69.52 | 3.14 | 27.21 | 43.80 | 56.07 | 74 | - | 17.93 | Pk | Horizontal |
| 2390.00 | 48.53 | 3.14 | 27.21 | 43.80 | 35.08 | 54 | - | 18.92 | AV | Horizontal |
| 2483.50 | 68.46 | 3.58 | 27.70 | 44.00 | 55.74 | 74 | - | 18.26 | Pk | Vertical |
| 2483.50 | 46.29 | 3.58 | 27.70 | 44.00 | 33.57 | 54 | -: | 20.43 | AV | Vertical |
| 2483.50 | 69.51 | 3.58 | 27.70 | 44.00 | 56.79 | 74 | - | 17.21 | Pk | Horizontal |
| 2483.50 | 46.68 | 3.58 | 27.70 | 44.00 | 33.96 | 54 | -: | 20.04 | AV | Horizontal |

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Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



| Spurious | s Emis | sion i | in Restric | ted Band | 326 | 60MHz- | 18000MHz | | | | | |
|------------------------------|-------------|-------------|---------------|-------------------|--------|----------------|-------------------|---------------|--------|--------|----------|------------|
| EUT: | Т | FURN | TABLE | | | Model No.: | | | KXRM19 | | | |
| Temperature | e: 2 | 20 °C | | | | Relativ | e Humidity | lumidity: 48% | | | | |
| Test Mode: Mode2/ Mode4 Test | | | | | Test B | y: | | Yoyo l | _iang | | | |
| | | | | | | | | | | | | |
| Frequency | Read Lev | - | Cable Loss | Antenna Factor | | reamp actor | Emission Level | L | imits | Margin | Detector | Comment |
| (MHz) | (dBµ | JV) | (dB) | dB/m | | (dB) | (dBµV/m) | (dB | μV/m) | (dB) | Туре | |
| 3260 | 69. | 51 | 4.04 | 29.57 | 2 | 14.70 | 58.42 | | 74 | -15.58 | Pk | Vertical |
| 3260 | 50.0 | 01 | 4.04 | 29.57 | 2 | 14.70 | 38.92 | | 54 | -15.08 | AV | Vertical |
| 3260 | 69.3 | 38 | 4.04 | 29.57 | 2 | 14.70 | 58.29 | 3.29 74 | | -15.71 | Pk | Horizontal |
| 3260 | 48.0 | 65 | 4.04 | 29.57 | 2 | 14.70 | 37.56 | | 54 | -16.44 | AV | Horizontal |
| 3332 | 68. | 13 | 4.26 | 29.87 | 2 | 14.40 | 57.86 | | 74 | -16.14 | Pk | Vertical |
| 3332 | 47.2 | 26 | 4.26 | 29.87 | 2 | 14.40 | 36.99 | | 54 | -17.01 | AV | Vertical |
| 3332 | 69.0 | 01 | 4.26 | 29.87 | 2 | 14.40 | 58.74 | | 74 | -15.26 | Pk | Horizontal |
| 3332 | 45.6 | 62 | 4.26 | 29.87 | 4 | 14.40 | 35.35 | | 54 | -18.65 | AV | Horizontal |
| 17797 | 57.2 | 20 | 10.99 | 43.95 | 4 | 43.50 | 68.64 | | 74 | -5.36 | Pk | Vertical |
| 17797 | 34.2 | 23 | 10.99 | 43.95 | 4 | 43.50 | 45.67 | | 54 | -8.33 | AV | Vertical |
| 17788 | 48.8 | 87 | 11.81 | 43.69 | 2 | 14.60 | 59.77 | | 74 | -14.23 | Pk | Horizontal |
| 17788 | 36.9 | 94 | 11.81 | 43.69 | 2 | 14.60 | 47.84 | | 54 | -6.16 | AV | Horizontal |

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Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

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7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

| EUT: | TURNTABLE | Model No.: | KXRM19 |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Yoyo Liang |



7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

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The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}





7.4.6 Test Results

| EUT: | TURNTABLE | Model No.: | KXRM19 |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Yoyo Liang |

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7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

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7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

| EUT: | TURNTABLE | Model No.: | KXRM19 |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Yoyo Liang |



7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.





7.6.6 Test Results

| EUT: | TURNTABLE | Model No.: | KXRM19 |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Yoyo Liang |



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance 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.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

| EUT: | TURNTABLE | Model No.: | KXRM19 |
|--------------|-------------|--------------------|------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode4 | Test By: | Yoyo Liang |





7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

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7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.





7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: 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.

7.9.2 Result

The EUT antenna is permanent attached PCB antenna (Gain: -0.58 dBi). It comply with the standard requirement.





8 TEST RESULTS

8.1 **1M**

8.1.1 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|-----------|--------------------|---------|-------------------|---------------------------|--------------|
| NVNT | BLE 1M | 2402 | Ant1 | 15.62 | 8.06 | 11.11 |
| NVNT | BLE 1M | 2440 | Ant1 | 15.61 | 8.07 | 11.11 |
| NVNT | BLE 1M | 2480 | Ant1 | 15.51 | 8.09 | 11.11 |

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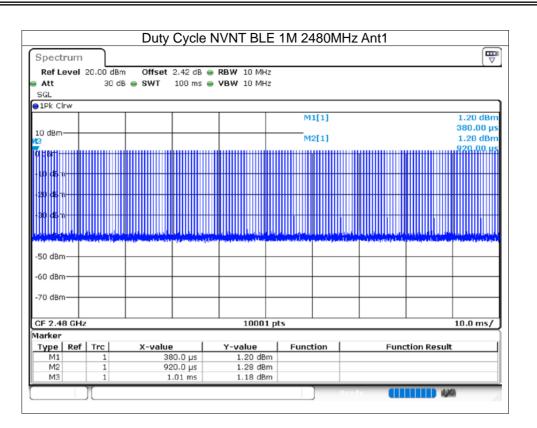
Report No.: S24101700701002



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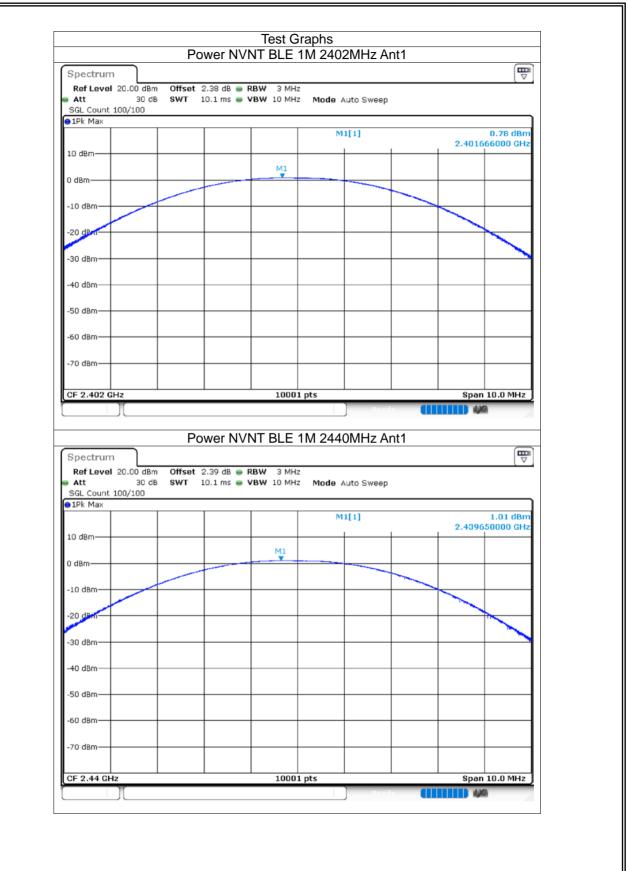


8.1.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|--------------------|---------|-----------------------------|----------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 0.78 | 30 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | 1.01 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 1.19 | 30 | Pass |

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| | Power N | VNT BLE 1M | I 2480MHz An | t1 | |
|---------------------|-----------------|------------|-----------------|-------|-------------|
| Spectrum | | | | | |
| Ref Level 20.00 dBn | | RBW 3 MHz | | | |
| Att 30 de | 8 SWT 10.1 ms 🖷 | VBW 10 MHz | Mode Auto Sweep | | |
| SGL Count 100/100 | | | | | |
| | | | M1[1] | | 1.19 dBm |
| | | | | 2.479 | 9617000 GHz |
| 10 dBm | | | | | |
| | | M1 | | | |
| 0 dBm | | | | | |
| | | | | | |
| -10 dBm | | | | | |
| | | | | | |
| -20 dbm | | | | | |
| | | | | | |
| -30 dBm | | | | | |
| | | | | | |
| 40 dBm | | | | | |
| 50 d0-1 | | | | | |
| 50 dBm | | | | | |
| -60 dBm | | | | | |
| -oo usiii | | | | | |
| 70 dBm | | | | | |
| | | | | | |
| | | | | | |
| CF 2.48 GHz | | 10001 pt | s | Spa | n 10.0 MHz |
| | | | Ready | | ya) |

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8.1.3 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|-----------|--------------------|---------|--------------------------|--------------------------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 0.504 | 0.5 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | 0.509 | 0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 0.597 | 0.5 | Pass |

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|-------------|---------|--------------------|---------------|---------------|------|-------------|----------|
| Spectrum | L | | | | | | |
| Ref Level | 20.00 0 | dBm Offset 2.42 dB | 👄 RBW 100 kHz | | | | |
| Att | | | 👄 VBW 300 kHz | Mode Auto FFT | | | |
| GGL Count 1 | .00/100 | | | | | | |
| 1Pk Max | | | | | | | |
| | | | | M1[1] | | -0 | .64 dBm |
| 0 dBm | | | | | | 2.479847 | 820 GHz |
| | | | | M2[1] | | | .66 dBm |
| dBm | | | M1 | | | 2.479552 | 000 GHz |
| | | M2 | | M3 | | | |
| | | | | - the second | | | |
| | | | | | | | |
| 20 dBm — | | <u> </u> | | | | | |
| | | | | | | | |
| 30 dBm — | | | | | | | |
| | | | | | | | |
| 40 dBm | | | | | | | <u> </u> |
| | | | | | | | |
| 50 dBm — | | | | | | | |
| | | | | | | | |
| i0 dBm — | | | | | | | |
| I | | | | | | | |
| '0 dBm — | | | | | | | |
| | | | | | | | |
| F 2.48 GH | 2 | | 10001 p | ts | | Span 2 | 2.0 MHz |
| arker | | | | | | | |
| | Trc | X-value | Y-value | Function | Func | tion Result | |
| M1 | 1 | 2.47984782 GHz | | | | | |
| M2 | 1 | 2.479552 GHz | | | | | |
| M3 | 1 | 2.480149 GHz | -6.64 dBm | | | | |

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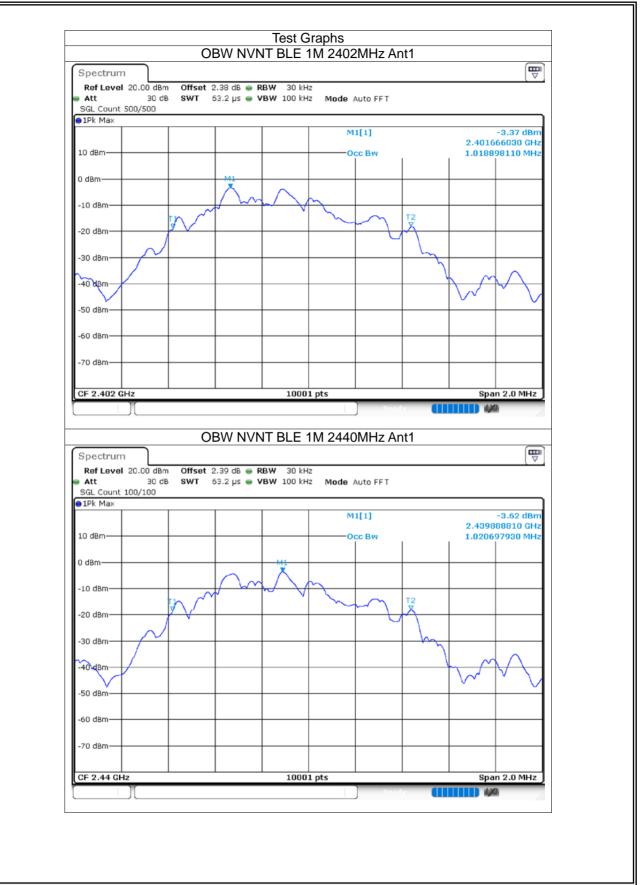




8.1.4 Occupied Channel Bandwidth

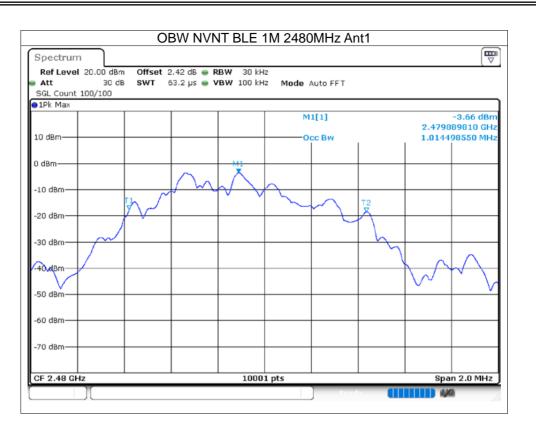
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT | BLE 1M | 2402 | Ant1 | 1.019 |
| NVNT | BLE 1M | 2440 | Ant1 | 1.021 |
| NVNT | BLE 1M | 2480 | Ant1 | 1.014 |





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8.1.5 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|--------------------|---------|------------------------|----------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -19.12 | 8 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -18.96 | 8 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -18.72 | 8 | Pass |

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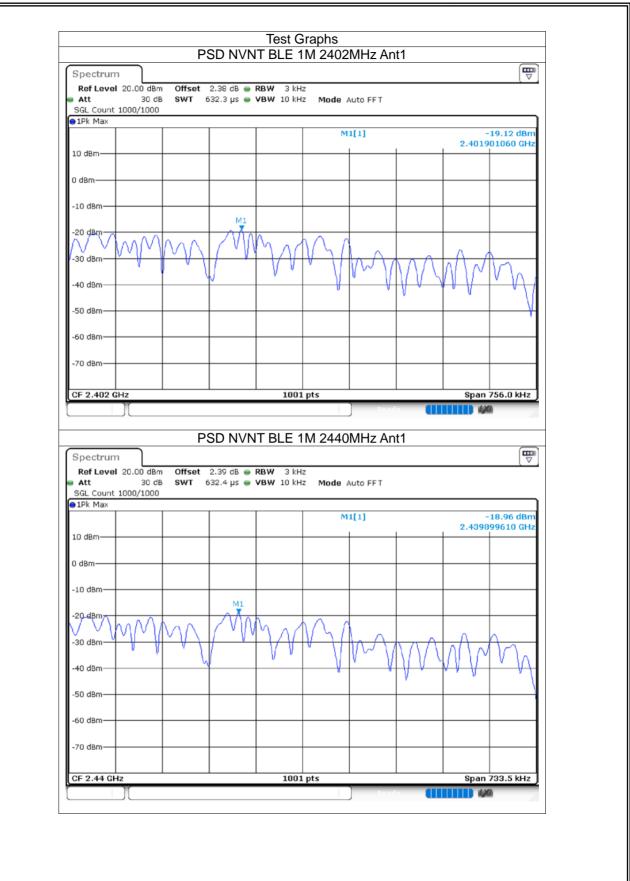


ilac-MR

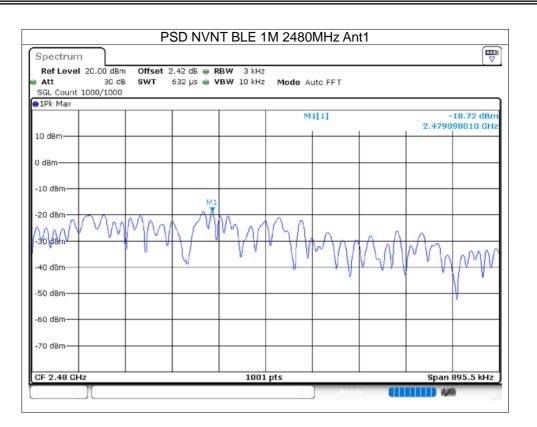
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8.1.6 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -54.09 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -52.24 | -20 | Pass |

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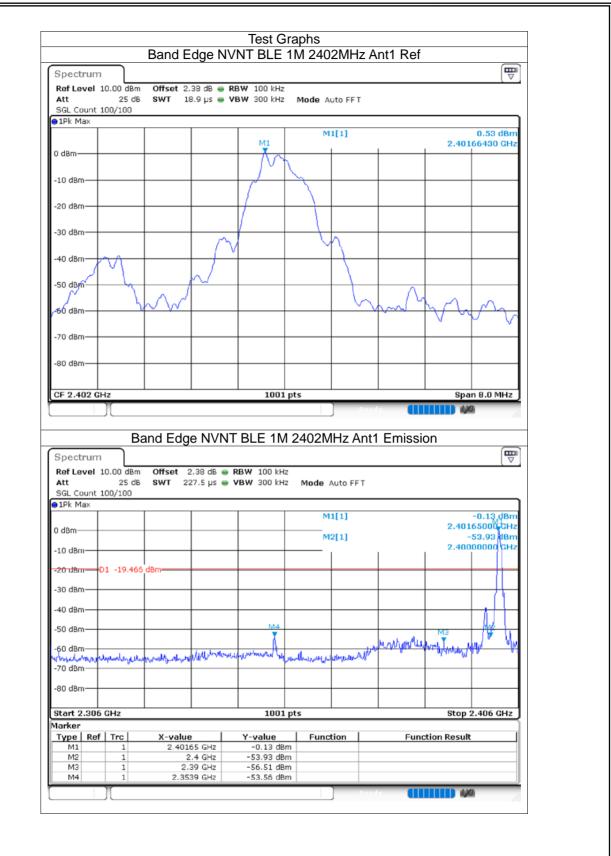


ilac-MR

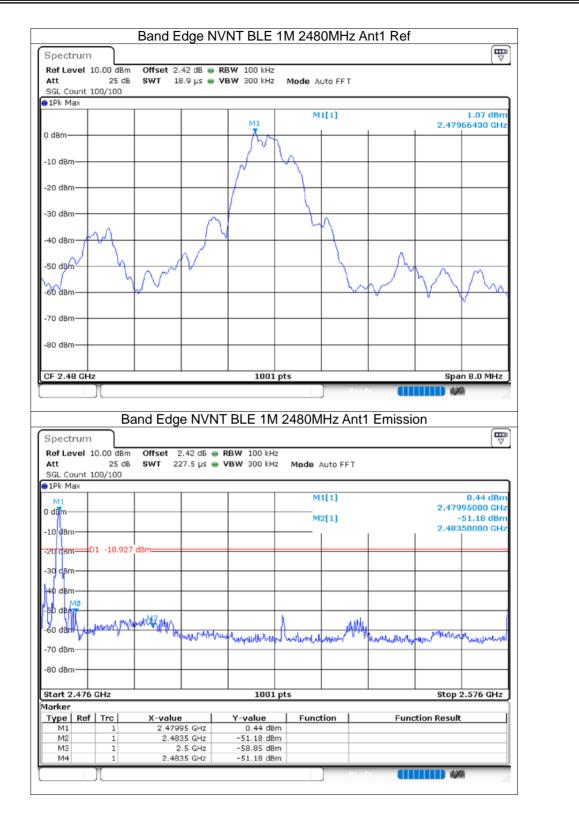
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8.1.7 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -51.57 | -20 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -50.43 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -51.58 | -20 | Pass |

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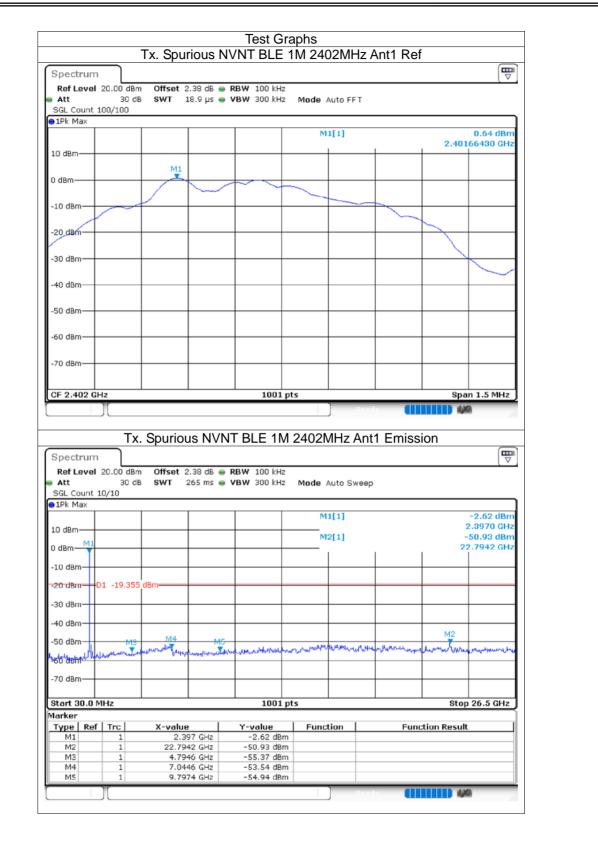


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| Spectrum Ref Level Att | 1 20.00 dBm 30 dB | | dB 👄 RBW 100 kHz µs 👄 VBW 300 kHz | | | | |
|--|---|------------------------|--------------------------------------|---|-----------|------------|--|
| SGL Count | | 0.0.1 | | Mode Auto FFT | | | |
| 1Pk Max | | | | | | | |
| | | | | M1[1] | | | -0.44 dBm |
| 10 dBm | | | | | _ | 2.43986 | 521550 GHz |
| | | | | | | | |
| 0 dBm | | | M1 | | | | |
| | | | \sim | | | | |
| -10 dBm | | | | | - | | |
| | | | | | | | |
| -20 d8m | | | | | | | |
| | | | | | | | |
| -30 dBm | | | | | | | |
| -40 dBm | | | | | | | |
| -vo ubili | | | | | | | |
| -50 dBm | | | | | | | |
| | | | | | | | |
| -60 dBm | | | | | | | |
| | | | | | | | |
| -70 dBm | | | | | | | |
| | | | | | | | |
| CF 2.44 GH | 17 | I | 30001 | nte | | Spa | n 1.5 MHz |
| | 12 | | | pes | | | |
| Spectrum | J Tx. | Spurious | NVNT BLE 1M | Re | nt1 Emiss | ion | |
| Ref Level Att | Tx. 20.00 dBm 30 dB | Offset 2.39 | | 1 2440MHz Ai | | ion | |
| Ref Level | Tx. 20.00 dBm 30 dB | Offset 2.39 | | 1 2440MHz Ai | | ion | |
| Ref Level Att SGL Count | Tx. 20.00 dBm 30 dB | Offset 2.39 | | 1 2440MHz Ai | | | 0.26 dBm |
| Ref Level Att SGL Count 1Pk Max | Tx. 20.00 dBm 30 dB | Offset 2.39 | | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz |
| Ref Level Att SGL Count 1Pk Max | Tx. 20.00 dBm 30 dB | Offset 2.39 | | 1 2440MHz An Mode Auto Swe | | 2.4 | 0.26 dBm |
| Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm | Tx. 20.00 dBm 30 dB | Offset 2.39 | | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm | Tx. 20.00 dBm 30 dB | Offset 2.39 SWT 265 | | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -30 dBm | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | NVNT BLE 1M | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | NVNT BLE 1M | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | NVNT BLE 1M | Mode Auto Swe | | 2.4 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count IPk Max IO dBm ID dB | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | MVNT BLE 1M | Mode Auto Swe | | 2.2 2.5 | 0.26 dBm H40010 GHz -50.88 dBm 534944 GHz |
| Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm | Tx. 20.00 dBm 30 dB 10/10 | Offset 2.39 SWT 265 | NVNT BLE 1M | Mode Auto Swe | | 2.2 2.5 | 0.26 dBm H40010 GHz -50.88 dBm |
| Ref Level Att SGL Count IPk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm | Tx. 20.00 dBm 30 dB 10/10 D1 -20.439 2 M3 MHz | dBm | NVNT BLE 1M | Mode Auto Swe | ep | 2 2.5 | 0.26 dBm H40010 GHz -50.88 dBm 334944 GHz |
| Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm | Tx. 20.00 dBm 30 dB 10/10 D1 -20.439 2 M3 MHz | Offset 2.39 SWT 265 | NVNT BLE 1M | Mode Auto Swe | ep | 2.2 2.5 | 0.26 dBm H40010 GHz -50.88 dBm 334944 GHz |
| Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -70 dBm Start 30.0 Marker Type Ref M1 M2 | Tx. 20.00 dBm 30 dB 10/10 D1 -20.439 2 MR MHz f Trc 1 1 | Offset 2.39 SWT 265 | MVNT BLE 1M | Mode Auto Swe Mode Auto Swe M1[1] M2[1] pts Function | ep | 2 2.5 | 0.26 dBm H40010 GHz -50.88 dBm 334944 GHz |
| Ref Level Att SGL Count IPk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm - | Tx. 20.00 dBm 30 dB 10/10 D1 -20.439 2 MHz f Trc 1 1 1 | Offset 2.39 SWT 265 | NVNT BLE 1M | Mode Auto Swe Mode Auto Swe M1[1] M2[1] m2[1] pts Function 1 1 1 1 1 1 1 1 1 | ep | 2 2.5 | 0.26 dBm H40010 GHz -50.88 dBm 334944 GHz |
| Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -70 dBm Start 30.0 Marker Type Ref M1 M2 | Tx. 20.00 dBm 30 dB 10/10 D1 -20.439 2 MR MHz f Trc 1 1 | Offset 2.39 SWT 265 | NVNT BLE 1M | Mode Auto Swe Mode Auto Swe M1[1] M2[1] pts Function 1 1 1 1 1 1 1 1 1 | ep | 2 2.5 | 0.26 dBm H40010 GHz -50.88 dBm 334944 GHz |
| Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm Start 30.0 Marker Type Ref M1 M2 M3 M4 | Tx. 20.00 dBm 30 dB 10/10 D1 -20.439 2 M3 2 M3 MHz f Trc 1 1 1 | Offset 2.39 SWT 265 | NVNT BLE 1M | Mode Auto Swe Mode Auto Swe M1[1] M2[1] pts Function 1 1 1 1 1 1 1 1 1 | ep | 2 2.5 | 0.26 dBm H40010 GHz -50.88 dBm 334944 GHz |

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| Att | 10.00 dBn 30 dB | | | RBW 100 kHz VBW 300 kHz | Mode Auto F | FFT | | | |
|--|--|---|---|--|---|---------------|--------------------|-----------|---|
| SGL Count | 100/100 | | | | | | | | |
| | | | | | M1[1] | | | | 0.97 dBm |
| | | M1 | | | | | | 2.47966 | 526610 GHz |
| 0 dBm | | | | | | | | | |
| -10 dBm | | | | _ | | | | | |
| | | | | | | | | | |
| -20 d8m- | | | | | | | | | |
| 00 d0- | | | | | | | | | |
| -30 dBm | | | | | | | | | |
| -40 dBm | | | | | | | | | |
| | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| -60 dBm | | | | | | | | | |
| | | | | | | | | | |
| -70 dBm | | | | + | | | | | |
| | | | | | | | | | |
| -80 dBm | | | | | | | | | |
| | | | | | | | | | |
| CF 2.48 GH | | | | 30001 | ots | | | spa | an 1.5 MHz |
| Spectrum | ī | • | | IT BLE 1M | 2480MHz | Ready Ant1 | Emiss | ion | |
| Ref Level Att | 10.00 dBn 30 dB | n Offset 2.4 | 42 dB 👄 | IT BLE 1M | | | Emiss | ion | |
| Ref Level | 10.00 dBn 30 dB | n Offset 2.4 | 42 dB 👄 | RBW 100 kHz | Mode Auto S | | Emiss | ion | |
| Ref Level Att SGL Count 1Pk Max | 10.00 dBn 30 dB | n Offset 2.4 | 42 dB 👄 | RBW 100 kHz | | | Emiss | | -3.59 dBm |
| Ref Level Att SGL Count 1Pk Max | 10.00 dBn 30 dB | n Offset 2.4 | 42 dB 👄 | RBW 100 kHz | Mode Auto S | | Emiss | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm |
| Ref Level Att SGL Count IPk Max 0 dBm -10 dBm | 10.00 dBn 30 dE 10/10 | n Offset 2.4 3 SWT 26 | 42 dB 👄 | RBW 100 kHz | Mode Auto s | | Emiss | 2.4 | -3.59 dBm 179720 GHz |
| Ref Level Att SGL Count 1Pk Max | 10.00 dBn 30 dE 10/10 | n Offset 2.4 3 SWT 26 | 42 dB 👄 | RBW 100 kHz | Mode Auto s | | Emiss | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm |
| Ref Level Att SGL Count IPk Max 0 dBm -10 dBm | 10.00 dBn 30 dE 10/10 | n Offset 2.4 3 SWT 26 | 42 dB 👄 | RBW 100 kHz | Mode Auto s | | Emiss | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm |
| Ref Level Att SGL Count IPk Max 0 dBm | 10.00 dBn 30 dE 10/10 | n Offset 2.4 3 SWT 26 | 42 dB 👄 | RBW 100 kHz | Mode Auto s | | Emiss | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm |
| Ref Level Att SGL Count 1Pk Max 0 dBm 10 dBm 20 dBm -30 dBm | 10.00 dBn 30 dE 10/10 | dBm | 42 dB ● 55 ms ● | RBW 100 kHz VBW 300 kHz | Mode Auto 9 | Sweep | | 2.4 | -3.59 dBm H79720 GHz -50.62 dBm 924353 GHz |
| Ref Level Att SGL Count 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm | 10.00 dBn 30 dE 10/10 | n Offset 2.4 3 SWT 26 | 42 dB ● 55 ms ● | RBW 100 kHz VBW 300 kHz | Mode Auto 9 | Sweep | eks dimensi y . (y | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm |
| Ref Level Att SGL Count IPk Max 0 dBm 10 dBm 20 dBm -20 dBm -30 dBm -50 dBm | 10.00 dBn 30 dE 10/10 | dBm | 42 dB ● 55 ms ● | RBW 100 kHz VBW 300 kHz | Mode Auto 9 | Sweep | eks dimensi y . (y | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm 224353 GHz |
| Ref Level Att SGL Count 1Pk Max 0 dBm M1 0 dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm | 10.00 dBn 30 dE 10/10 | dBm | 42 dB ● 55 ms ● | RBW 100 kHz VBW 300 kHz | Mode Auto 9 | Sweep | eks dimensi y . (y | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm 224353 GHz |
| Ref Level Att SGL Count IPk Max 0 dBm 10 dBm 20 dBm -20 dBm -30 dBm -50 dBm | 10.00 dBn 30 dE 10/10 | dBm | 42 dB ● 55 ms ● | RBW 100 kHz VBW 300 kHz | Mode Auto 9 | Sweep | eks dimensi y . (y | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm 224353 GHz |
| Ref Level Att SGL Count IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm | 10.00 dBn 30 dE 10/10 D1 -19.026 | dBm | 42 dB ● 55 ms ● | RBW 100 kHz VBW 300 kHz | Mode Auto 9 | Sweep | eks dimensi y . (y | 2.4 | -3.59 dBm +79720 GHz -50.62 dBm 224353 GHz |
| Ref Level Att SGL Count IPk Max 0 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -70 dBm -80 dBm -80 dBm -80 dBm -70 dBm | 10.00 dBn 30 dE 10/10 D1 -19.026 | dBm | 42 dB ● 55 ms ● | RBW 100 kHz | Mode Auto 9 | Sweep | | 2 15.9 | -3.59 dBm 179720 GHz -50.62 dBm 224353 GHz |
| Ref Level Att SGL Count IPk Max 0 dBm M1 -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -80 dBm -70 dBm -80 dBm -70 dBm -80 dBm -70 dBm | 10.00 dBn 30 dE 10/10 D1 -19.026 | dBm | 42 dB ● 55 ms ● | RBW 100 kHz | Mode Auto 9 M1[1] M2[1] M2 M2 M2 M2 M2 M2 M2 M | Sweep | | 2.4 | -3.59 dBm 179720 GHz -50.62 dBm 224353 GHz |
| Ref Level Att SGL Count 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -70 dBm -80 dBm -80 dBm -70 dBm -80 dBm -70 dBm -70 dBm -80 dBm -70 dBm | 10.00 dBn 30 dE 10/10 01 -19.026 MG MHz f Trc 1 | D Offset 2.4 3 SWT 26 dBm dBm x-value 2.47972 15.924353 | 42 dB ● 55 ms ● 15 ms ● 10 ms | RBW 100 kHz VBW 300 kHz | Mode Auto 9 M1[1] M2[1] M2[1] M2 M2 M2 M2 M2 M2 M2 M | Sweep | | 2 15.9 | -3.59 dBm 179720 GHz -50.62 dBm 224353 GHz |
| Ref Level Att SGL Count IPk Max 0 dBm M1 M2 M3 | MHz | Offset 2.4 SWT 26 B | 42 dB ● 55 ms ● 15 ms ● 10 ms | RBW 100 kHz VBW 300 kHz | Mode Auto 9 M1[1] M2[1] M2[1] M2 M2 M2 M2 M2 M2 M2 M | Sweep | | 2 15.9 | -3.59 dBm 179720 GHz -50.62 dBm 224353 GHz |
| Ref Level Att SGL Count 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -70 dBm -80 dBm -80 dBm -70 dBm -80 dBm -70 dBm -70 dBm -80 dBm -70 dBm | 10.00 dBn 30 dE 10/10 01 -19.026 MG MHz f Trc 1 | D Offset 2.4 3 SWT 26 dBm dBm x-value 2.47972 15.924353 | 42 dB ● 55 ms ● 15 ms ● 42 dH2 42 dH2 4 GH2 4 | RBW 100 kHz VBW 300 kHz | Mode Auto 9 M1[1] M2[1] M2[1] M2 M2 M2 M2 M2 M2 M2 M | Sweep | | 2 15.9 | -3.59 dBm 179720 GHz -50.62 dBm 224353 GHz |

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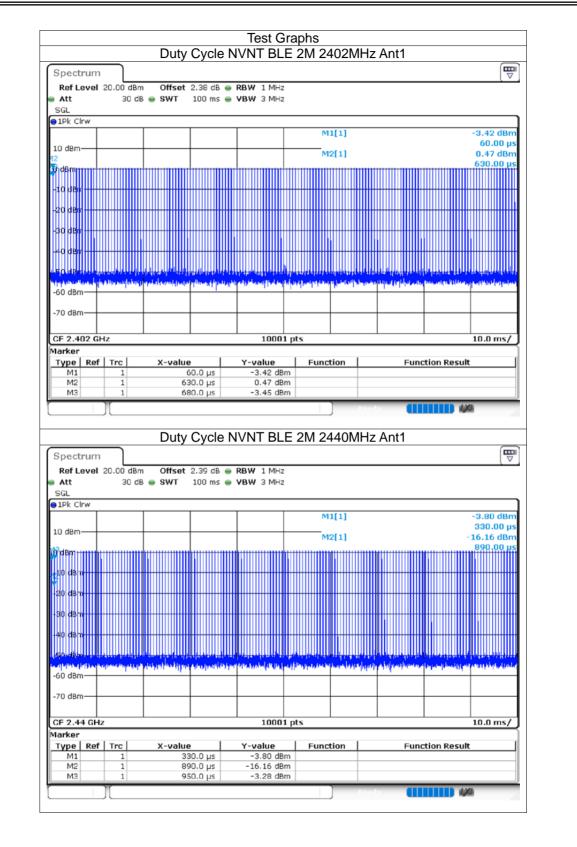


8.2 **2M**

8.2.1 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|-----------|--------------------|---------|-------------------|---------------------------|--------------|
| NVNT | BLE 2M | 2402 | Ant1 | 10.47 | 9.8 | 20 |
| NVNT | BLE 2M | 2440 | Ant1 | 10.45 | 9.81 | 16.67 |
| NVNT | BLE 2M | 2480 | Ant1 | 10.75 | 9.69 | 20 |



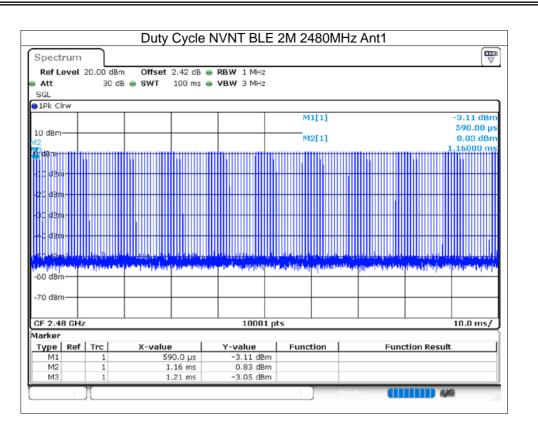


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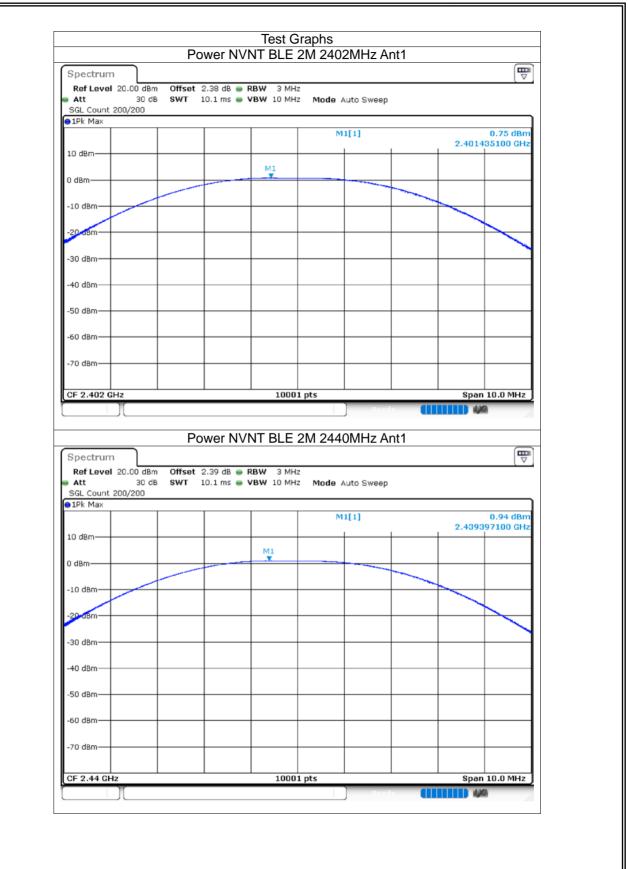


8.2.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|--------------------|---------|-----------------------------|----------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | 0.75 | 30 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | 0.94 | 30 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 1.16 | 30 | Pass |

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| | Pov | wer NVN | NT BLE 2 | M 248 | 0MHz Ai | nt1 | | |
|---------------------------------|----------|------------|-----------------------|--------|-----------|-----|--------|-----------------------|
| Spectrum | | | | | | | | |
| Ref Level 20.00 dBr Att 30 d | | .42 dB 👄 R | BW 3 MHz BW 10 MHz | Mode / | uto Sweep | | | |
| SGL Count 200/200 | 5 3001 1 | 5.1 ms 🚽 🗸 | BW IO MHZ | Mode | uto sweep | | | |
| ●1Pk Max | | | | | | | | |
| | | | | м | 1[1] | | 2.4793 | 1.16 dBm 84100 GHz |
| 10 dBm | | | M1 | | | | | |
| 0 dBm | | | • | | | _ | | |
| -10 dBm | | | | | | | | |
| -20 dBm | | | | | | | | |
| -30 dBm | | | | | | | | |
| -40 dBm | | | | | | | | |
| | | | | | | | | |
| -50 dBm | | | | | | | | |
| -60 dBm | | | | | | | | |
| -70 dBm | | | | | | | | |
| CF 2.48 GHz | | | 10001 | pts | | | Span | 10.0 MHz |
| Ĭ | | | | | Read | · • | | 3 |

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8.2.3 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|-----------|--------------------|---------|--------------------------|--------------------------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | 0.904 | 0.5 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | 0.844 | 0.5 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | 0.684 | 0.5 | Pass |

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| | | | | | E 2M 2480 | | | m |
|-----------|----------|---------------|----------|-------------|---------------|--------|---------------|---------------|
| Spectrum | | | | | | | | |
| Ref Level | 20.00 dB | m Offset 2.42 | dB 👄 R | BW 100 kHz | | | | |
| Att | 30 c | B SWT 18.9 |) µs 👄 🛛 | 'BW 300 kHz | Mode Auto FFT | | | |
| GL Count | 100/100 | | | | | | | |
| 1Pk Max | | | | | | | | |
| | | | | | M1[1] | | | -0.18 dBm |
| 0 dBm— | | | | | | | | 19660 GHz |
| | | | M1 | | M2[1] | | | -6.24 dBm |
| dBm — | | - · · · · | | | | | 2.4793 | 28000 GHz |
| | | N 1 | | | | | | |
| .0 dBm — | | | , • | | \sim | | | |
| | | | | | | | | |
| 20 dBm — | | | | | | \sim | | |
| | ~ | | | | | | | |
| 0 dBm | | + + | | | | | | |
| \sim 1 | | | | | | | | |
| 0 dBm | / | + + | | | | | \rightarrow | \rightarrow |
| Y | | | | | | | | |
| 0 dBm-+ | | | | | | | | |
| o | | | | | | | | |
| 0 dBm | | | | | | | | |
| '0 dBm | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| F 2.48 GH | z | | | 10001 pt | s | | Spa | n 4.0 MHz |
| arker | | | | | | | | |
| ype Ref | Trc | X-value | | Y-value | Function | Fun | ction Result | |
| M1 | 1 | 2.47941966 (| | -0.18 dBm | | | | |
| M2 | 1 | 2.479328 (| | -6.24 dBm | | | | |
| M3 | 1 | 2.480013 (| GHz | -6.19 dBm | | | | |

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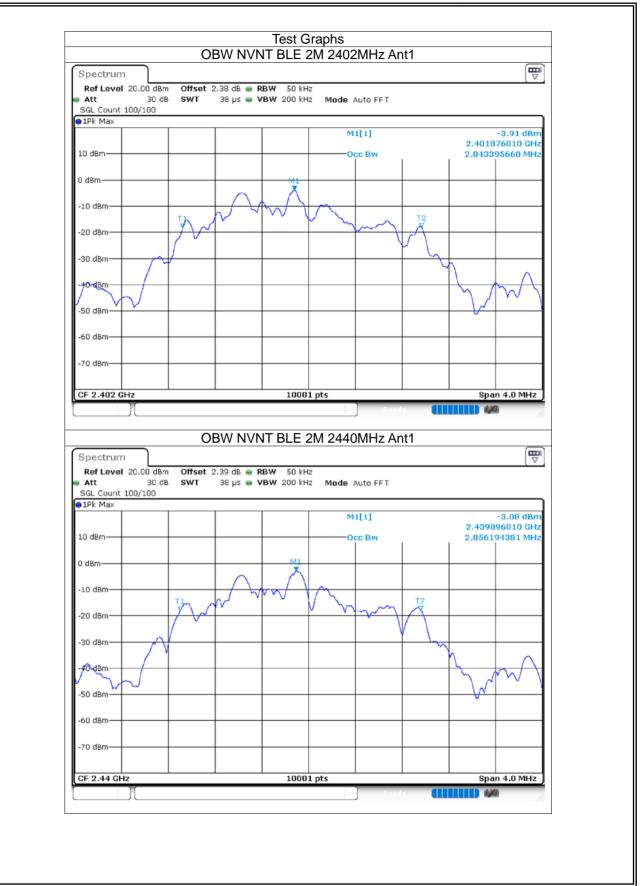




8.2.4 Occupied Channel Bandwidth

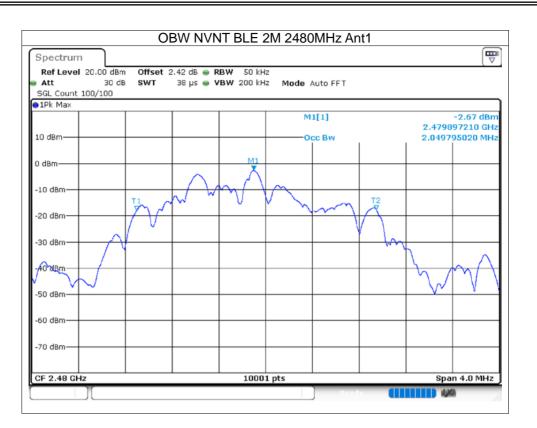
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT | BLE 2M | 2402 | Ant1 | 2.043 |
| NVNT | BLE 2M | 2440 | Ant1 | 2.056 |
| NVNT | BLE 2M | 2480 | Ant1 | 2.05 |





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8.2.5 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Limit (dBm) | Verdict |
|-----------|-----------|--------------------|---------|------------------------|----------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | -22.05 | 8 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | -21.93 | 8 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -22.49 | 8 | Pass |

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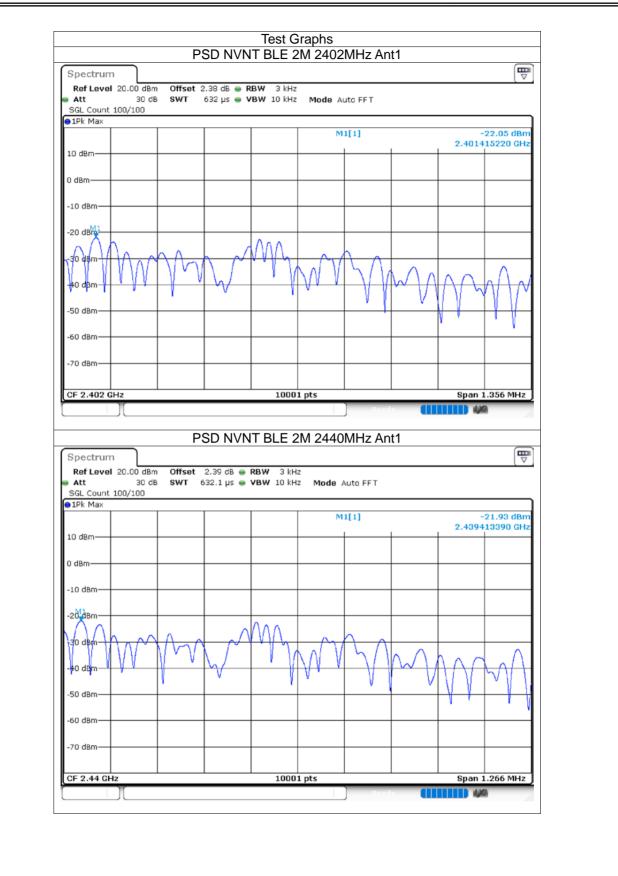


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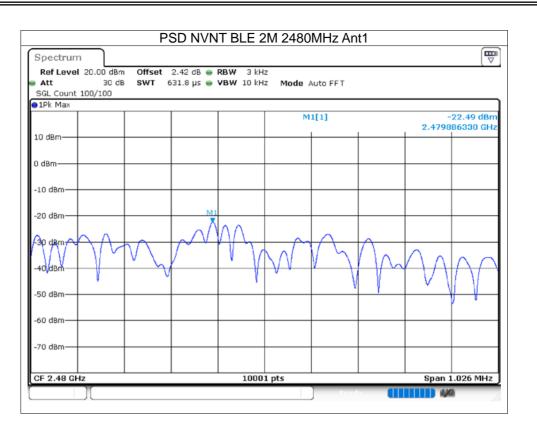
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8.2.6 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | -52.43 | -20 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -50.31 | -20 | Pass |

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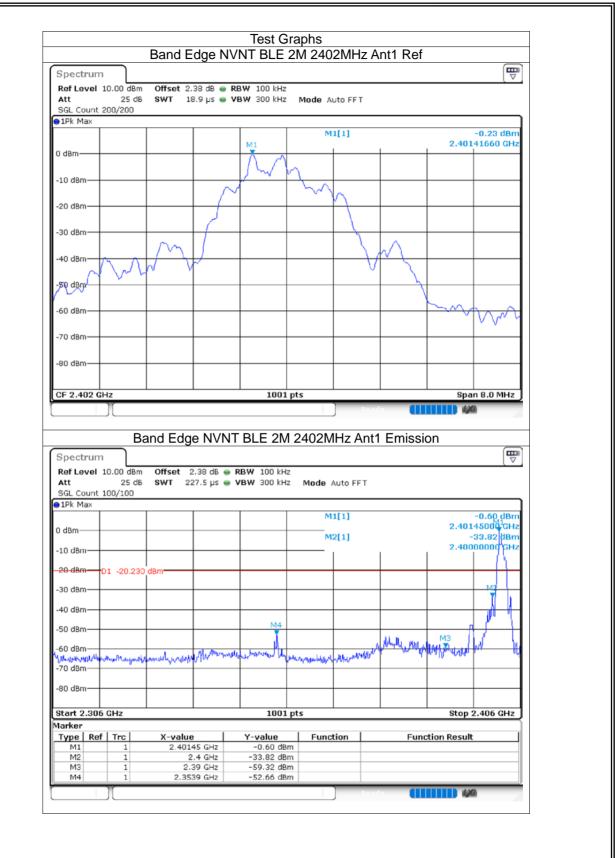


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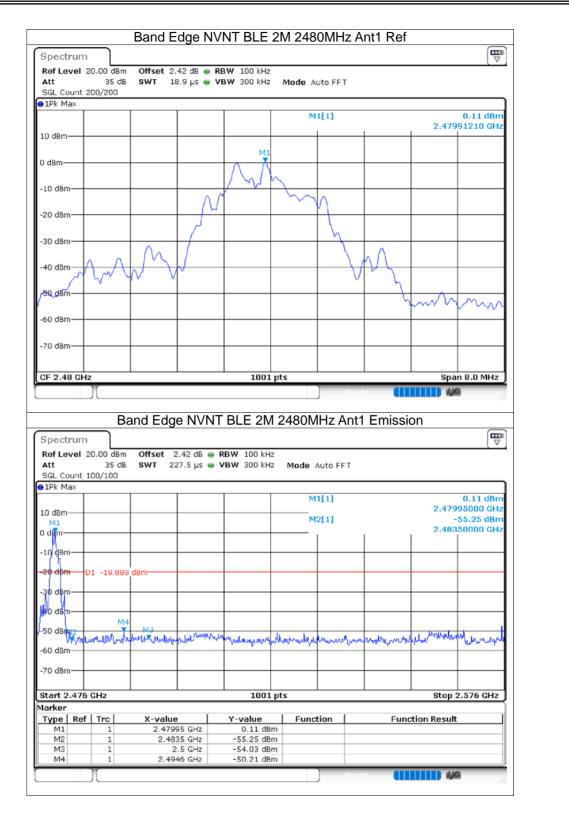
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8.2.7 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 2M | 2402 | Ant1 | -50.7 | -20 | Pass |
| NVNT | BLE 2M | 2440 | Ant1 | -50.02 | -20 | Pass |
| NVNT | BLE 2M | 2480 | Ant1 | -51.33 | -20 | Pass |

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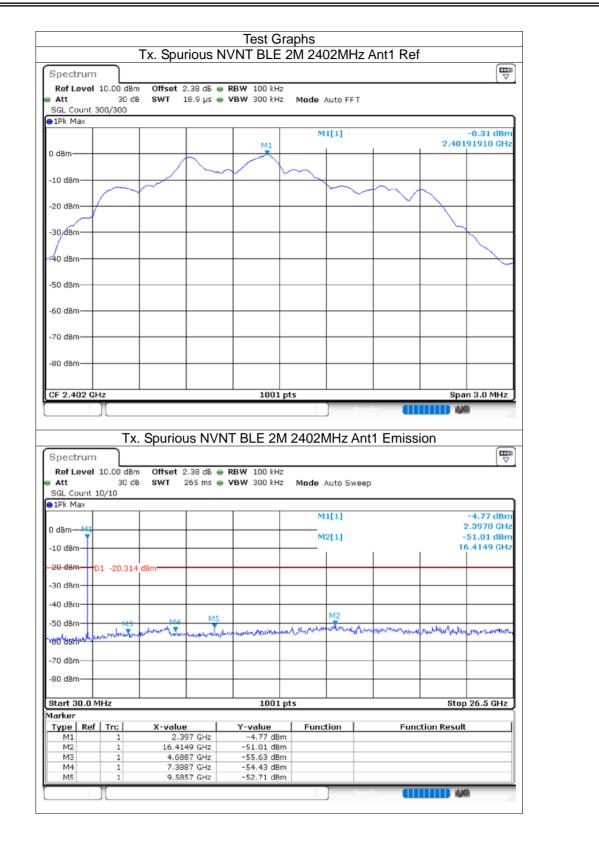


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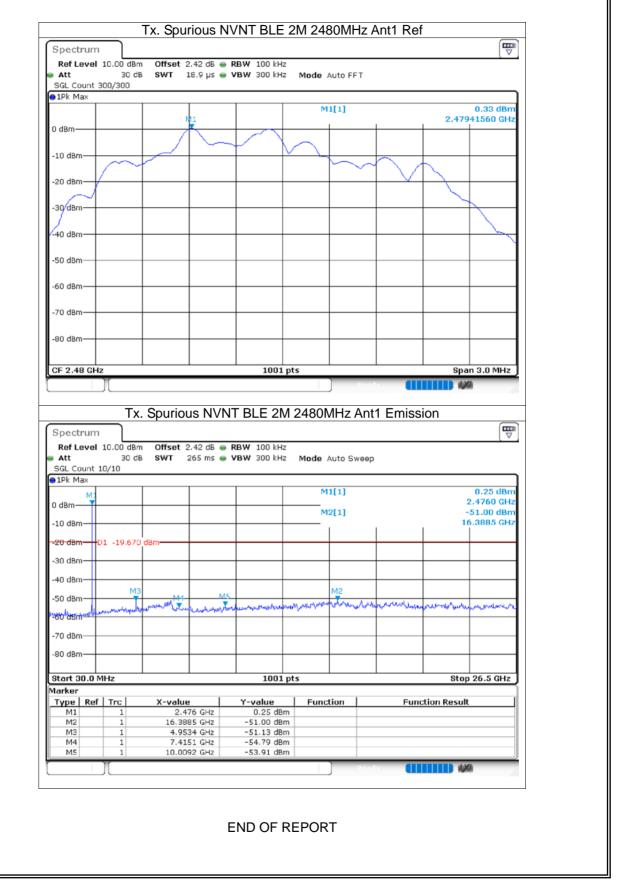




| | 10.00 dBr | | dB 👄 RBW 100 ki | | | | | |
|--|--|--|---|--|----------------------------|---------|-----------------------|---|
| SGL Count | 30 d 300/300 | 5 SWT 18.9 | µs 👄 VBW 300 ki | Hz Mode / | uto FFT | | | |
| 1Pk Max | | | | | | | | |
| | | | | M | 1[1] | | | 0.13 dBm |
| 0 dBm | | 11 | | | | 1 | 2.439 | 941860 GHz |
| 0 00.0 | | | | | | | | |
| -10 dBm— | | | | \sim \sim | | _ | | |
| | \sim | | | | \sim | | \sim | |
| -20 dBm— | | | | | | · · | | |
| -30 dBm- | 1 | | | | | | | |
| -30 abm— | | | | | | | | |
| 40 dBm- | | | | | | | | |
| | | | | | | | | |
| -50 dBm— | | | | | | | | |
| | | | | | | | | |
| -60 dBm— | | | | | | | | |
| -70 dBm— | | | | | | | | |
| | | | | | | | | |
| -80 dBm— | | | | | | | | |
| | | | | | | | | |
| CF 2.44 G | Hz | | 100 | 1 pts | | I | Spa | an 3.0 MHz |
| | | | | | | | | |
| | Tx | . Spurious I | NVNT BLE 2 | M 2440N |) Rea /IHz Ant | 1 Emiss | ion | |
| Ref Leve Att | n # 10.00 dBr 30 d | n Offset 2.39 | NVNT BLE 2 dB • RBW 100 ki ms • VBW 300 ki | Hz | | | ion | |
| Spectrui Ref Leve Att SGL Couni 1Pk Max | n # 10.00 dBr 30 d | n Offset 2.39 | dB 👄 RBW 100 ki | Hz | | | ion | |
| Ref Leve Att SGL Count 1Pk Max | n # 10.00 dBr 30 d | n Offset 2.39 | dB 👄 RBW 100 ki | Hz Hz Mode A | | | | -6.56 dBm |
| Ref Leve Att SGL Coun | n # 10.00 dBr 30 d | n Offset 2.39 | dB 👄 RBW 100 ki | Hz Hz Mode A | auto Sweep | | | |
| Ref Leve Att SGL Count 1Pk Max | n # 10.00 dBr 30 d | n Offset 2.39 | dB 👄 RBW 100 ki | Hz Hz Mode A | outo Sweep 1[1] | | | -6.56 dBm 2.4500 GHz |
| Ref Leve Att SGL Count 1Pk Max | n # 10.00 dBr 30 d | n Offset 2.39 B SWT 265 | dB 👄 RBW 100 ki | Hz Hz Mode A | outo Sweep 1[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm |
| Ref Leve Att SGL Coun 1Pk Max 0 dBm -10 dBm | n 10.00 dBr 30 d 10/10 | n Offset 2.39 B SWT 265 | dB 👄 RBW 100 ki | Hz Hz Mode A | outo Sweep 1[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm |
| Ref Leve Att SGL Coun IPk Max 0 dBm -10 dBm -20 dBm -30 dBm | n 10.00 dBr 30 d 10/10 | n Offset 2.39 B SWT 265 | dB 👄 RBW 100 ki | Hz Hz Mode A | outo Sweep 1[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm |
| Ref Leva Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm | 10.00 dBr 30 d : 10/10 | n Offset 2.39 B SWT 265 | dB • RBW 100 ki | Hz Mode / | auto Sweep 1[1] 2[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leva Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm | 10.00 dBr 30 d : 10/10 | n Offset 2.39 B SWT 265 | dB • RBW 100 ki | Hz Mode / | auto Sweep 1[1] 2[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leva Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm | 10.00 dBr 30 d : 10/10 | n Offset 2.39 B SWT 265 | dB 👄 RBW 100 ki | Hz Mode / | auto Sweep 1[1] 2[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leva Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm | n 30 d 30 d : 10/10 | n Offset 2.39 B SWT 265 | dB • RBW 100 ki | Hz Mode / | auto Sweep 1[1] 2[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leve Att SGL Coun IPk Max 0 d8m -10 d8m -20 d8m -30 d8m -40 d8m -50 d8m | n 30 d 30 d : 10/10 | n Offset 2.39 B SWT 265 | dB • RBW 100 ki | Hz Mode / | auto Sweep 1[1] 2[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leve Att SGL Coun 1Pk Max 0 d8m -10 d8m -20 d8m -30 d8m -40 d8m -50 d8m -50 d8m -50 d8m -60 d8m -60 d8m -70 d8m -80 d8m | н 10.00 dBr 30 d 10/10 | n Offset 2.39 B SWT 265 | dB RBW 100 ki ms VBW 300 ki | Hz Hz Mode / | auto Sweep 1[1] 2[1] | | | -6.56 dBm 2.4500 GHz 49.90 dBm 4.8740 GHz |
| Ref Leve Att SGL Coun IPk Max 0 d8m 10 d8m -10 d8m -20 d8m -30 d8m -40 d8m -50 d8m -50 d8m -60 d8m -70 d8m -80 d8m -80 d8m | н 10.00 dBr 30 d 10/10 | n Offset 2.39 B SWT 265 | dB RBW 100 ki ms VBW 300 ki | Hz Mode / | auto Sweep 1[1] 2[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leve Att SGL Coun 1Pk Max 0 d8m 10 d8m -10 d8m -20 d8m -30 d8m -50 d8m -50 d8m -60 d8m -70 d8m -80 d8m -80 d8m -70 d8m -80 d8m | M3 M3 M3 M3 M3 M3 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 | n Offset 2.39 B SWT 265 | dB RBW 100 ki ms VBW 300 ki | Hz Hz Mode / M: | vuto Sweep 1[1] 2[1] | | uruh-ug/stylu Stop | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leve Att SGL Coun 1Pk Max 0 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -80 dBm -70 dBm -80 dBm -30 dBm -40 dBm | 10/10 10 | m Offset 2.39 B SwT 265 | dB ● RBW 100 ki ms ● VBW 300 ki | Hz Hz Mode / M: M: M: M: M: M: M: M: M: M: | vuto Sweep 1[1] 2[1] | | | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leve Att SGL Coun IPk Max 0 d8m 10 d8m -20 d8m -30 d8m -30 d8m -50 d8m -50 d8m -60 d8m -50 d8m -50 d8m -50 d8m -60 d8m -70 d8m -80 d8m -80 d8m -70 d8m -80 d8m | M 10.00 dBr 30 d 10/10 -D1 -19.873 M2 M42 MHz f Trc 1 1 | n Offset 2.39 B SWT 265 | dB | Hz Hz Mode / Hz Mode / M: M: M: M: M: M: M: M: M: M: | vuto Sweep 1[1] 2[1] | | uruh-ug/stylu Stop | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leve Att SGL Coun 1Pk Max 0 dBm 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -80 dBm -80 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -70 dBm -80 dBm -80 dBm -70 dBm -80 dBm -80 dBm -70 dBm -80 dBm | M 10.00 dBr 30 d 10/10 -01 -19.873 -01 | m Offset 2.39 B SWT 265 B SWT 265 B dBm B dBm B dBm C State of the sta | dB ● RBW 100 ki ms ● VBW 300 ki >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> | Hz Hz Mode / M: M: M: M: M: M: M: M: M: M: M: M: M: | vuto Sweep 1[1] 2[1] | | uruh-ug/stylu Stop | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |
| Ref Leve Att SGL Coun 1Pk Max 0 d8m 1Pk Max 0 d8m -10 d8m -20 d8m -30 d8m -50 d8m -50 d8m -60 d8m -70 d8m -80 d8m -80 d8m -70 d8m -80 d8m -70 d8m -70 d8m -80 d8m -70 d8m -70 d8m -80 d8m -70 d8m -70 d8m -80 d8m -70 d8m -70 Marker Type M1 M2 M3 | M 10.00 dBr 30 d 10/10 01 -19.873 M3 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 | m Offset 2.39 B SWT 265 | dB ● RBW 100 ki ms ● VBW 300 ki MS MS | Hz Hz Mode / M: M: M: M: M: M: M: M: M: M: M: M: M: | vuto Sweep 1[1] 2[1] |) | uruh-ug/stylu Stop | -6.56 dBm 2.4500 GHz -49.90 dBm 4.8740 GHz |

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